A PRELIMINARY DESIGN REPORT FOR REALIGNMENT OF CULVER BOULEVARD

City of Culver City, Department of Public Works

Preliminary Design Report for the Realignment of Culver Boulevard between Sepulveda Boulevard and Elenda Street Project PZ 460

TETRA TECH

September 2018

Page Intentionally Left Blank

Realignment of Culver Boulevard between Sepulveda Boulevard and Elenda Street Project PZ 460

September 2018

PREPARED FOR

City of Culver City

Department of Public Works
9770 Culver Boulevard
Culver City, CA 90232

PREPARED BY

Tetra Tech

17885 Von Karman Ave.
Suite 500
Irvine, CA 92614

Phone: 949.809.5000
Fax: 949.809.5010
tetratech.com

Tetra Tech Project #200-154197-18001

P:\154197\200-154197-18001\Docs\Reports\PDR Final\PDR_Culver Blvd_Sept2018

Page Intentionally Left Blank

CONTENTS

Executive Summary with Purpose and Need 1
1. Project Background and Scope 3
1.1 Scope 4
2. Environmental Requirements 7
3. Outreach 8
4. Alternatives 9
5. Design Criteria 10
6. Typical Roadway and Median Section 11
7. Traffic Signals and Lighting 13
7.1 Scope 13
7.2 City Street Lighting 14
8. Utilities 15
9. Landscaping 16
10. Schedule 17
11. Estimate 18

LIST OF FIGURES

Figure 1. Bikeway and Pedestrian Path in Median to be Relocated 5
Figure 2. Typical Stormwater Storage Excavation 5
Figure 3. Bus Stops to be Upgraded 12
Figure 4. Sidewalks to be Replaced 12
Figure 5. West End of Median Showing Bike Repair Station 12
Figure 6. Existing Signal at Huron Avenue to be Upgraded 13
Figure 7. Existing Landscaping 16
Figure 8. Building Relics 16

APPENDICES

Appendix A. Preliminary Opinion of Probable Construction Cost
Appendix B. 35% Drawings

Page Intentionally Left Blank

EXECUTIVE SUMMARY WITH PURPOSE AND NEED

The project encompasses the realignment of Culver Boulevard within the existing right-of-way between Sepulveda Boulevard and Elenda Street (approximately 0.5 miles). The project purpose is to improve safety, mobility and mitigate traffic noise and nuisance in this segment of Culver Boulevard. A Conceptual Plan for the project was approved by the City Council in December 2017. In the subsequent Design Development of the Plans to 35% level, a Citizens Advisory Committee was formed and engaged, and community meetings were held. Several design options were explored, and the design was coordinated with the concurrent Storm Water Capture Project occurring on the same site. A preliminary opinion of cost was prepared that finds the project is within budget.

Page Intentionally Left Blank

1. PROJECT BACKGROUND AND SCOPE

Culver Boulevard, within the project limits, is classified as a Primary Arterial in the General Plan Circulation Element with a posted speed limit of 40 miles per hour. Culver Boulevard's configuration west of Elenda Street and east of Sepulveda Boulevard mainly consists of a 50-foot wide main roadway with two lanes in each direction and parking on the south side, a local 50-foot wide roadway known as "little" or "north" Culver Boulevard with one lane in each direction and parking on both sides, a 60-foot wide landscaped bicycle/pedestrian median (formerly the Southern Pacific Transportation Company property) separating the two roadways, and a 10-foot wide parkway on each side.

The main roadway is the southern third of the 180-foot wide street right-of-way; "little" Culver Boulevard is in the northern third; and the median constitutes the middle third of the right-of-way.

In 1980, there were various discussions with the residential community and the City Council on how to improve the future realignment of Culver Boulevard between the 405 freeway and Overland Avenue due to the discontinued use of the 60-feet wide Southern Pacific Railroad property. A conceptual Culver Boulevard Urban Design Plan was approved with two-way frontage roads on both sides of Culver Boulevard and a wide raised median separating the roadways.

In 1983, the City Council approved the construction for the realignment of Culver Boulevard starting at 500-feet west of Elenda Street to Overland Avenue in order to construct a raised median separating the roadways and construct a parking lot adjacent to Veterans Memorial Park, Armory, Culver City Community Gardens, American Veteran's Post, Culver City Rock and Mineral Club, and Paddle Tennis Courts.

Later in the 1980's, the former Culver City Redevelopment Agency (CCRA) condemned the 60-foot wide Southern Pacific Railroad property and began eminent domain proceedings in order to build a bicycle path and landscaped median as part of the Culver Boulevard Improvement Project. Southern Pacific Transportation Company wanted to sell the property for residential development and filed suit against the former CCRA, which ultimately resulted in a settlement in February 1994 with the City purchasing the 60-foot wide property for $4.75 million with the land remaining zoned for transportation.

In 1993, the City Council approved the application for funds for the Transportation Enhancement Activities Program under the lntermodal Surface Transportation Efficiency Act of 1991 for the Culver Boulevard Greenway/Bikeway Construction. The City was awarded $350,000.

In 1995, the City Council appointed a committee of residents and businesses with the charge to devise a consensus plan for Culver Boulevard, west of Elenda Street, that would improve environmental conditions for residents. In 1996, the City Council approved the construction of a greenway/bikeway project within the existing unimproved 60-foot wide old Pacific Electric Railroad right-of-way that the City of Culver City (City) had recently purchased from the railroad. In 1997, as directed by the City Council, a pedestrian traffic signal was installed at the intersection of Culver Boulevard and Huron Avenue.

From 1999 to 2003, Caltrans and the City had multiple meetings with residents about the proposed new 405 freeway off-ramp and reconfigured on-ramp on Culver Boulevard as part of the 405 freeway HOV and auxiliary lane project. The Caltrans project necessitated the realignment of Culver Boulevard from Sawtelle Boulevard to several hundred feet east of Sepulveda Boulevard in order to accommodate the operation of the 405 freeway

ramps. The construction of the 405 freeway project began in 2004 and was completed in 2009. As a result of the Caltrans project, "little" Culver Boulevard was no longer available as a convenient bypass route to the freeway on-ramp.

In 2005, the City received a $2.2 million Federal Highway Bill earmark for the realignment of Culver Boulevard from Sepulveda Boulevard to Elenda Street and for the widening of Sepulveda Boulevard from Playa Street to Green Valley Circle. In 2011, other mitigation funds were used for the widening of Sepulveda Boulevard and now the entire $2.2 million is available for this Culver Boulevard realignment project.

In 2009, staff submitted a funding request to Los Angeles County Metro (Metro) Call for Projects for the realignment of Culver Boulevard between Sepulveda Boulevard and Elenda Street. Metro awarded a grant in the amount of $4 million utilizing Proposition C. This was a second attempt on obtaining these grant funds. The funding became available in 2012.

The City hired a consultant list to prepare a conceptual plan based on past City Council motions in order to receive community input prior to beginning final design. As a result of this effort, a Tree Inventory Survey and a Topographic Base Map was prepared.

1.1 SCOPE

The existing street has 180-feet right-of-way and is configured with a 60-feet wide parkway and residential roadway on the north side, a 60-feet center island greenbelt, and another 60-feet arterial roadway and parkway on the south side. The south side carries almost all of the through traffic on two lanes in each direction with limited room for parking.

After evaluating several project alternatives and options, the project scope was refined to include the following:

- Shift the northerly landscaped median curb approximately 16-feet northerly and reduce its width by 2-feet, and on the southern roadway add left turn movement capacity or center median, a parking lane, and a 5-foot buffer.
- Separate the Culver Boulevard eastbound and westbound traffic with a raised 8-foot median.
- Improve traffic safety and pedestrian mobility by adding signals at Huron Avenue and Harter Avenue.
- Create a buffer between parked vehicles and traffic on the south side of Culver Boulevard.
- Improve access for pedestrians crossing Culver Boulevard at Harter Avenue and Huron Avenue.
- Improve access for motorists turning left onto and from “little“ Culver Boulevard.
- Reestablish the median grading, landscaping and irrigation.
- Reestablish and improve the bikeway and pedestrian paths in the median.
- Save or replace mature trees.
- Improve lighting and replace sidewalks to enhance safety and improve the pedestrian experience.

Traffic signal warrants will be prepared to justify the proposed new signals, design, and preparation of technical specification for new traffic signals at the Harter Avenue and Huron Avenue intersections. The traffic signal plans will include the design of an intersection safety lighting system.

There is an existing interconnect cable on the south side of Culver Boulevard under the sidewalk and the new traffic signals will be spliced to it. The City is currently replacing all traffic signal controllers in the City with new Type 2070 Controllers. A new Adaptive Traffic Control System will also be installed.

The existing streetlight system is on a high voltage system. The existing streetlight poles will be removed and new low voltage streetlight systems will be installed.

One catch basin at Harter Avenue is being relocated approximately 50-feet. Its lateral reconnection to the main will need to be coordinated with and approved by the County of Los Angeles in concert with the storm drain work being done for the Storm Water Capture Project, further described below.

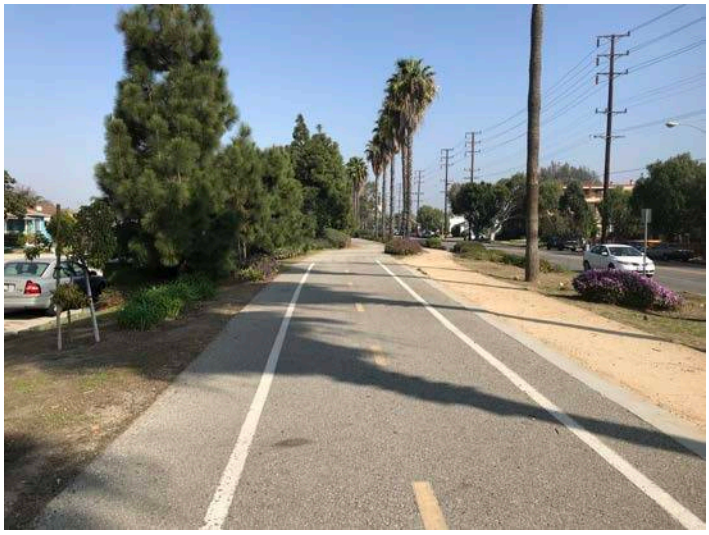


Figure 1 - Bikeway and Pedestrian Path in Median to be Replaced

Culver Boulevard Stormwater Regional Project PR-002

The Public Works Department's Environmental Programs and Operations Division (EPO) is proposing a Stormwater Regional Project (Project) that will consist of an infiltration and retention basin to capture stormwater/urban runoff from approximately 334 acres of Culver City drainage area. This Project proposes to utilize this opportunity to construct an infiltration gallery and retention basin underneath the area where the 58-feet wide new bicycle/pedestrian landscape median will be constructed as part of the Culver Boulevard Realignment Project PZ 460. A portion of the captured run-off that is proposed to be stored in the underground retention basin will be used to supplement the required irrigation for the proposed landscaping along the raised median and along Culver Boulevard.

Figure 2 - Typical Stormwater Storage Excavation

Page Intentionally Left Blank

2. ENVIRONMENTAL REQUIREMENTS

The Stormwater Project will be evaluating the previously prepared project specific initial study (IS), and will make needed revisions for completeness, which will include the impacts of the roadway project. Impacts specific to the roadway project will be needed to complete the IS update. It is anticipated that a Negative Declaration (ND) would be the appropriate CEQA document, and the draft IS/ND will be prepared by the Stormwater Project consultant.

3. OUTREACH

Residents south of Washington Boulevard, east of Sepulveda Boulevard, north of Braddock Drive, and west of Elenda Street were notified by e-mail and by letter on November 6, 2017 and November 28, 2017. Then, a Citizens Advisory Committee was formed of interested residents and a meeting was convened with the City and the City's design consultants on April 26, 2018 and again on June 18, 2018. Notifications were made by postcard and Community Outreach events were held on May 15, 2018 and again on July 17, 2018.

4. ALTERNATIVES

The approved Concept Plan was reviewed, and several options and alternatives were explored in developing the Project Design to the 30% Preliminary Plan level. Design development was coordinated with the concurrent Stormwater Capture Project. The following alternatives and options were evaluated with input from the City, the City's Transportation and Traffic Engineering Departments, the Design Team, and the Citizens Advisory Committee:

ALTERNATIVES AND OPTIONS	
Design Element Description	**Incorporated (Yes/No)**
Bulbouts	Yes (limited)
Expanded median	No
Expanded plaza at Sepulveda Boulevard	Yes
Plazas in median	Yes
Crosswalks at Harter Avenue and Huron Avenue moved to East Side	Yes
Upgrade bus stops to current standards	Yes
Parking lane and buffer in alternate materials (e.g., cobble)	Yes
4-way intersection at Huron Avenue	No
Close-off "little" Culver Boulevard outlet at Sepulveda Boulevard	No
Bike and pedestrian path – switch sides of median	Yes
New signal at Huron Avenue	Yes
Median break/refuge island at "little" Culver Boulevard easterly outlet	Yes

5. DESIGN CRITERIA

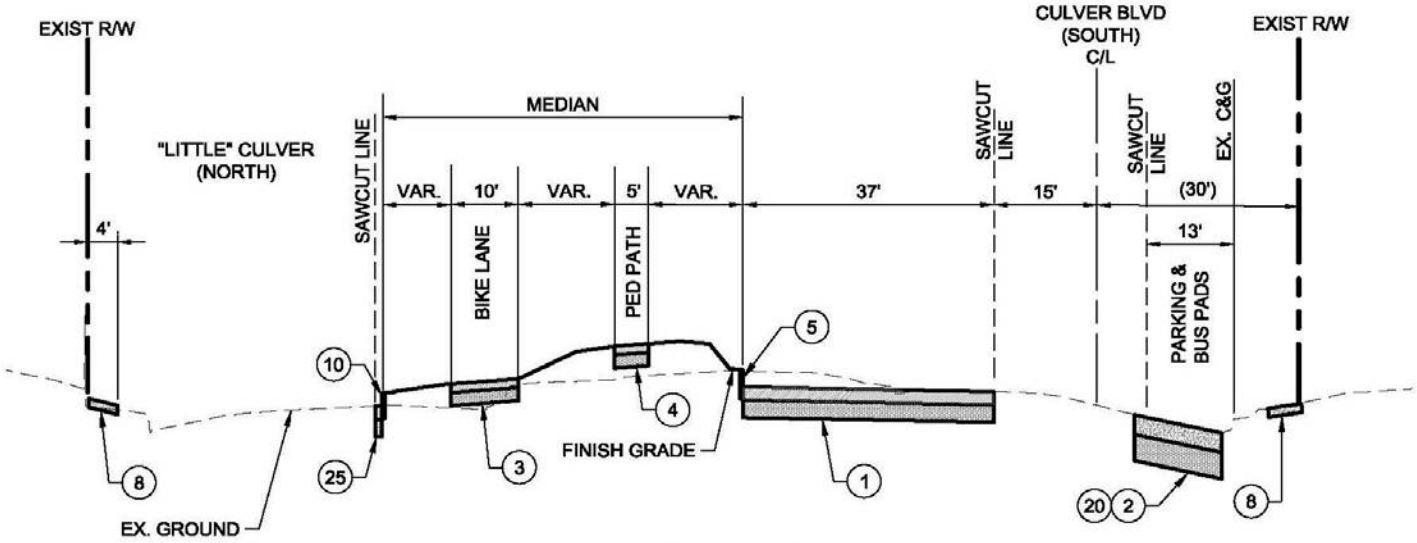
The following Design Criteria are being used:

- Arterial Roadway Standards
- 50-mph design speed for arterial roadway; 20-mph for bikeway
- 12-feet thru lanes, 10-feet left turn pockets
- 20-feet access aisle for emergency vehicles
- 8-foot bikeway width, asphalt paved, with 2-foot clearance buffer on either side
- ADA accessible ramps
- 5-foot wide decomposed granite pedestrian path
- 8-inch curb and gutter typical; 6-inch curb on the north side of the center median ("little" Culver Boulevard side)
- Asphalt pavement section: to be determined
- Concrete pavement section: to be determined
- Rehabilitate landscape parkways adjacent to each property following the new City Parkway Landscape Guidelines
- Preserve existing healthy trees along the parkway where practical

The Basis of Design utilizes the following Codes and Standards:

- Standard Plans for Public Works Construction (SPPWC)
- Standard Specifications for Public Works Construction (SSPWC) – Green Book (2018)
- Caltrans Standard Plans and Specifications
- Caltrans Highway Deign Manual, esp. Chapter 1000 – Bicycle Transportation Design
- City of Culver City Standards, Specifications, Codes and Requirements
- City of Culver City Parkway Landscape Guidelines
- NACTO Design Guidelines for Bikeways

6. TYPICAL ROADWAY AND MEDIAN SECTION



PROPOSED CULVER BLVD
TYPICAL SECTION
NTS

CONSTRUCTION NOTES

1. CONSTRUCT 6" AC OVER 12" CMB PAVEMENT OVER NATIVE GROUND @ 95% COMPACTION.
2. CONSTRUCT 3000 PSI P.C.C. PAVEMENT, 9" DEEP WITHOUT REBAR OVER 12" CMB OVER NATIVE GROUND @ 95% COMPACTION.
3. CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION. (BIKE PATH)
4. CONSTRUCT 4" DG OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION. (PED PATH)
5. CONSTRUCT 8" TYPE A1-8 CURB PER SPPWC STD. 120-2.
8. CONSTRUCT 4" PCC SIDEWALK PER SPPWC STD. 113-2.
10. CONSTRUCT 6" TYPE A1-6 CURB PER SPPWC STD. 120-2.
14. CONSTRUCT 12" WIDE CONCRETE MOW STRIP.
20. CONSTRUCT CONCRETE PAVERS, FINISH PER LANDSCAPE PLANS.
25. CONSTRUCT 5" PCC OVER 12" CMB PAVEMENT OVER NATIVE GROUND @ 95% COMPACTION. FINISH PER LANDSCAPE PLANS.

Figure 3 - Bus Stops to be Upgraded

Figure 4 - Sidewalks to be Replaced

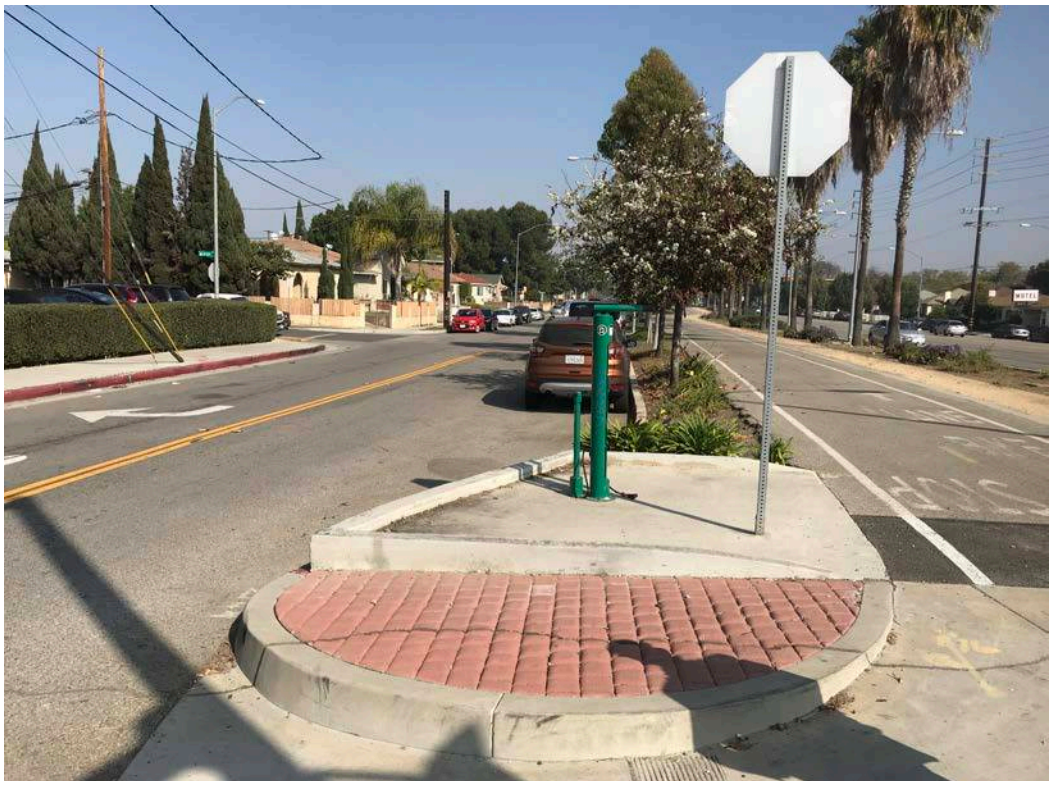


Figure 5 - West End of Median Showing Bike Repair Station

7. TRAFFIC SIGNALS AND LIGHTING

7.1 TRAFFIC SIGNALS

Signal improvements are proposed at the following intersections:

1) New traffic signal at the Culver Boulevard and Harter Avenue intersection.
2) Modified traffic signal at the Culver Boulevard and Huron Avenue intersection.

At Culver Boulevard and Harter Avenue intersection, the signal is semi-actuated with only northbound approach lane have detection. The proposed signal improvement are as follows:

- New Type 2070 controller and Type 332 controller cabinet
- New Caltrans pole Type 19-3-100 with luminaire for safety lighting system
- New Caltrans pole Type 17-3-100 with luminaire for safely lighting system
- New Type 1 and 1-A
- New Type 15TS with luminaire for safety lighting system
- New signal interconnect cable from the controller cabinet to existing controller cabinet at Elenda Street/Culver Boulevard and to proposed controller cabinet at Huron Avenue/Culver Boulevard
- New advance loop detectors
- 12-inch signal indication heads
- Pedestrian heads
- Accessible Pedestrian Signal (APS)
- Signal conductor cables

Figure 6 - Existing Signal at Huron Avenue to be Upgraded

At the existing Culver Boulevard and Huron Avenue intersection, the signal is semi-actuated with only northbound approach lane have detection, and the proposed signal improvement are as follows:

- Remove and install new Type 2070 controller with Type 332 controller cabinet.
- Remove all traffic signal pole with all indication heads.
- New Caltrans pole Type 19-3-100 with luminaire for safety lighting system.
- New Caltrans pole Type 17-3-100 with luminaire for safely lighting system.
- New Type 1 and 1-A.
- New Type 15TS with luminaire for safety lighting system.
- Reroute signal interconnect cables from the controller cabinet at Huron Avenue to both signal intersections at Culver Boulevard/Harter Avenue and Culver Boulevard/Elenda Street.
- New advance loop detectors.
- 12-inch signal indication heads.
- Pedestrian heads.
- Accessible Pedestrian Signal (APS).
- Signal conductor cables.

7.2 CITY STREET LIGHTING

The following city street lighting improvements are required:

1) Remove existing series circuit along Culver Boulevard between Sepulveda Boulevard and Elenda Street.
2) Install new Ameron concrete type 22CT10 pole with single acorn luminaire LED by True Green Solutions Model No. 318036-26-X-X-E39 for both the pedestrian walkway and the bike path.
3) Install new Ameron concrete type 5B124 pole with 6-foot luminaire mast arm and 150-250W HPS by Crystal Lighting.

8. UTILITIES

The following utilities have facilities in the project area:

Company Name	Utility	Phone	Contact Name
AT&T-TCA	Overhead Cables	213-787-9996	Maria Guzman
Airtouch Cellular	Overhead Cables	818-625-5307	John Crosse
Charter Communications	Underground Fiber Optics and Overhead cables	dl-socal-charter-engineering@charter.com	Emir Ebra
Frontier	Overhead Cables	909-469-6343	Jerry Ruiz
MWD-Water System Operation group	94" Water Pipe	562-713-0348	Kevin Johansen
Pacific Bell	Various	818-373-5960	Lorey Lavery
Southern California Gas Company	26" & 16" pipes	310-687-2026	Jason Jones
Southern California Water Company	8" & 12" pipes	310-838-2144	Chuck Delgadillo
Southern California Edison	Overhead and underground Conduits	310-315-3271	Jack Hopkins
Torrance Logistic CO/PBF Energy	16" & 10" pipes	310-625-3886	Adriane Simon
XO Communications	Overhead Cables	949-417-7841	Matt Bergine

9. LANDSCAPING

The Landscaping seeks to provide a consistent, harmonious and aesthetic blend of hardscape, pathways, trees, bushes and ground cover. Significant trees in the large median that can be retained will be protected. The landscaped berm with trees will provide buffer in some places. The irrigation proposed will be a drip system and plants will be selected for drought tolerance. The parkways will be planted with a consistent landscape theme in accordance with the City's Parkway Landscape Guidelines. Architectural relics of the original City Hall in the median will be relocated in a central area of the median, such as by Huron Avenue.

Figure 7 – Existing Landscaping

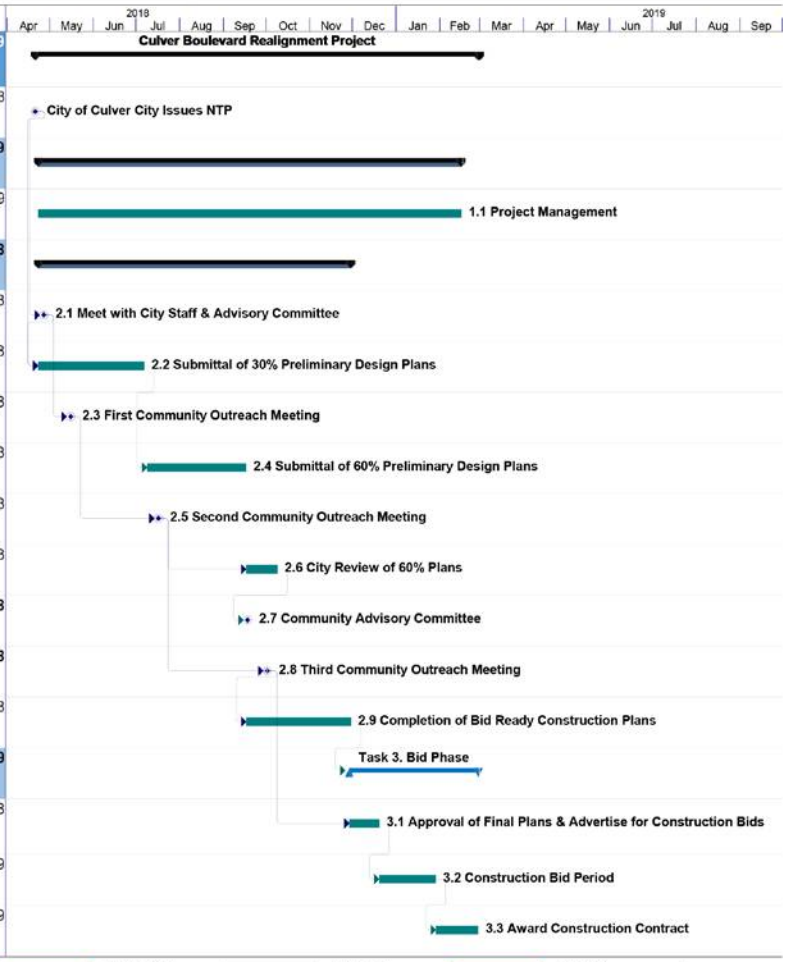
Figure 8 – Building Relics

10. SCHEDULE

The project schedule shown on the following page is based on Bid and Award by February 2019. The duration of construction is anticipated to be approximately one (1) year, but will depend on the concurrent work to construct the Stormwater Capture Project.

PROJECT SCHEDULE FOR
CULVER BOULEVARD REALIGNMENT PROJECT

ID	TASK NAME	DUR	START	FINISH
1	**Culver Boulevard Realignment Project**	**314 d**	**Fri 4/20/18**	**Thu 2/28/19**
2	City of Culver City Issues NTP	0 d	Fri 4/20/18	Fri 4/20/18
3	**Task 1. Project Management**	**299 d**	**Mon 4/23/18**	**Fri 2/15/19**
4	1.1 Project Management	299 d	Mon 4/23/18	Fri 2/15/19
5	**Task 2. Design Phase**	**221 d**	**Mon 4/23/18**	**Thu 11/29/18**
6	2.1 Meet with City Staff & Advisory Committee	0 d	Thu 4/26/18	Thu 4/26/18
7	2.2 Submittal of 30% Preliminary Design Plans	75 d	Mon 4/23/18	Fri 7/6/18
8	2.3 First Community Outreach Meeting	0 d	Wed 5/16/18	Wed 5/16/18
9	2.4 Submittal of 60% Preliminary Design Plans	70 d	Mon 7/9/18	Sun 9/16/18
10	2.5 Second Community Outreach Meeting	0 d	Mon 7/16/18	Mon 7/16/18
11	2.6 City Review of 60% Plans	22 d	Mon 9/17/18	Mon 10/8/18
12	**2.7 Community Advisory Committee**	**0 d**	**Tue 9/18/18**	**Tue 9/18/18**
13	**2.8 Third Community Outreach Meeting**	**0 d**	**Tue 10/2/18**	**Tue 10/2/18**
14	2.9 Completion of Bid Ready Construction Plans	74 d	Mon 9/17/18	Thu 11/29/18
15	**Task 3. Bid Phase**	**91 d**	**Thu 11/29/18**	**Wed 2/27/19**
16	3.1 Approval of Final Plans & Advertise for Construction Bids	21 d	Thu 11/29/18	Wed 12/19/18
17	3.2 Construction Bid Period	40 d	Thu 12/20/18	Mon 1/28/19
18	3.3 Award Construction Contract	30 d	Tue 1/29/19	Wed 2/27/19



Project: CULVER BOULEVARD ROADWAY WIDENING PROJECT
Date: Wed 9/5/18

NOTE: DURATIONS ARE IN CALENDAR DAYS.

Task	External Tasks	Manual Task	Finish-only	
Split	External Milestone	Duration-only	Critical	
Milestone	Inactive Task	Manual Summary Rollup	Critical Split	
Summary	Inactive Milestone	Manual Summary	Progress	
Project Summary	Inactive Summary	Start-only	Deadline	

SCHEDULE for Interview Culver Boulevard Roadway Widening.mpp

Page 1

11. ESTIMATE

The overall budget is $6,729,000.00, including design. The construction cost is estimated to be about $6,000,000.00 with Design and Construction Management/Inspection making up the difference. The following outlines the funding sources contemplated:

FUNDING SOURCES	
City Funds	$1,913,224.00
Proposition C grant from LA Metro	$2,855,776.00
West LA College Mitigation Funds	$1,000,000.00
Playa Vista Mitigation Funds	$ 960,000.00
Total	**$6,729,000.00**

Page Intentionally Left Blank

Realignment of Culver Boulevard Between Sepulveda Boulevard and Elenda Street Project PZ 460

Appendix A. Preliminary Opinion of Probable Construction Cost

A. Preliminary Opinion of Probable Construction Cost

CITY OF CULVER CITY
PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COSTS FOR CULVER BLVD REALIGNMENT FROM SEPULVEDA TO ELENDA

35% Level Plans 7/10/2018

	ITEM	QUANTITY	UNIT	UNIT COST	ENGINEER'S COST
1	Mobilization/Demobilization	1	LS	$100,000	$100,000
2	Demolition and Utilities	1	LS	$200,000	$200,000
3	Clearing and Grubbing	1	LS	$50,000	$50,000
4	Roadway Excavation	3,361	CY	$50	$168,050
5	2.5" ARHM Finish Course Pavement	700	TON	$210	$147,000
6	Construct 6" Asphalt Concrete (AC)	2,093	TON	$120	$251,160
7	Construct PCC Bus Pad Monolithic with Curb & Gutter	3,780	SF	$25	$94,500
8	6" Crushed Miscellaneous Base (CMB)	30,698	SF	$6	$184,188
9	12" Crushed Miscellaneous Base (CMB)	59,561	SF	$10	$595,610
10	Construct 4" DG Asphalt Pedestrian Path	236	TON	$100	$23,600
11	Construct 8" Type A2-8 Curb and Gutter per SPPWC Std. 120-2	167	LF	$50	$8,350
12	Construct 8" Type A1-8 Curb per SPPWC Std. 120-2	7,420	LF	$20	$148,400
13	Rolled Curb	57	LF	$50	$2,850
14	Construct 5" PCC Pavement (Cobble Stones)	20,393	SF	$25	$509,825
15	Construct 6" PCC Pavement	1,760	SF	$20	$35,200
16	Install Geogrid	112,412	SF	$0.50	$56,206
17	Construct 4" PCC Sidewalk per SPPWC Std. 113-2	9,396	SF	$10	$93,960
18	Construct 4" AC Bike Lane	428	TON	$120	$51,360
19	Construct ADA Ramp (incl. upper/lower landing, gutter, domes, grooves brdr)	24	EA	$6,500	$156,000
20	Storm Drain Inlet Relocation	1	LS	$20,000	$20,000
21	Traffic Signal at Harter & Culver	1	LS	$123,205	$123,205
22	Traffic Signal at Huron & Culver	1	LS	$124,293	$124,293
23	City Street Lighting and Pedestrian Lighting	1	LS	$508,479	$508,479
24	Traffic Control	1	LS	$100,000	$100,000
25	Signage & Striping	1	LS	$150,000	$150,000
26	Landscape and Irrigation	1	LS	$970,000	$970,000
	HARD COST SUBTOTAL				$4,872,236
27	General Conditions			5.0%	$243,612
28	Bonding and Inspection			3.0%	$146,167
29	Contingency			15.0%	$730,835
		TOTAL			**$5,992,850**

Assumptions and Exclusions

1 This is a preliminary opinion of probable construction costs only. Actual costs may vary.

2 The unit cost data is derived from inhouse sources, recent bids on similar construction, and RS Means current Construction Cost Data.

3 This opinion of cost is based on the project program and plans made available at the time of preparation.

4 Material prices are based on current quotations and do not include escalation.

5 This opinion of cost assumes that all improvements will be constructed at one time.

6 Quantity take offs were performed when possible and parametric estimates and allowances are used for items that cannot be quantified at this stage of the design.
7 Soft Costs are Excluded, such as Construction Management and Administration, Project Closeout, and Surveying.
8 This opinion has been based on a competitive open bid situation with a recommended 5 - 7 bonafide reputable bids from general contractors and a minimum of 3 bidders for all items of subcontracted work.

The following are excluded:

1 Environmental clearances and permits
2 Hazardous spoil disposal, if encountered
3 Property and Right of Way acquisition or easements
4 Legal and accounting fees
5 Plan check, building permit fees
6 Utility Connection Fees
7 Start-up,Testing and inspection
8 Fire and all risk insurance
9 Removal of unforeseen underground obstructions
10 Relocation of unforseen subsurface utilities
11 Signage and wayfinding
12 Additional fill or import
13 Loose furniture and equipment
14 Tel/data system
15 Work done after business hours
16 Design, engineering and consulting fees other than those specifically listed in the above estimate

Items that may affect the cost estimate:

1 Modifications to the scope of work included in this estimate
2 Unforeseen sub-surface conditions
3 Restrictive work areas, technical specifications or excessive contract conditions
4 Any other non-competitive bid situations
5 Bids delayed beyond the projected schedule

Realignment of Culver Boulevard between Sepulveda Boulevard and Elenda Street Project PZ 460

Appendix B. 35% Drawings

B. 35% DRAWINGS

GENERAL NOTES

1. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE APWA STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION AND THE CONTRACT DOCUMENTS. PLANS AND SPECIFICATIONS ARE MADE A PART HEREOF AS IF SPELLED OUT IN THEIR ENTIRELY.
2. CONTRACTOR SHALL NOTIFY THE CITY'S REPRESENTATIVE AND ALL OTHER INTERESTED PARTIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE START OF WORK.
3. AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA - U.S.A AT 1-800-227-2600) AND REQUEST THAT UTILITY OWNERS MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR FACILITIES. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL POTHOLE ANO EXPOSE THE EXISTING UTILITIES AT ALL CROSSINGS ANO AT THE POINT OF TIE-IN; THEN CONTACT THE CITY'S REPRESENTATIVE SO THE ELEVATION OF THE EXISTING FACILITIES CAN BE VERIFIED. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTIUTJES AND ALL STRUCTURES FOUND AT THE SITE.
4. THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION SHALL OBTAIN ALL REQUIRED PERMITS AND HAVE A CURRENT BUSINESS LICENSE(S).
5. DURING ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBSERVE, FOLLOW, AND IMPLEMENT ALL THE REQUIREMENTS OF THE NPDES AND STORMWATER POLLUTION PREVENTION PROGRAM AND KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING, AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE CITY'S REPRESENTATIVE THROUGHOUT THE CONSTRUCTION OPERATION.
6. THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL CHANGES AND SUBMIT THIS RECORD TO THE CITY BEFORE THE FINAL ACCEPTANCE OF THE PROJECT SHALL BE FILED.
7. THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, AND TREE AND SHRUBBERY THAT ARE NOT TO BE REMOVED. ALL DAMAGE CAUSED TO STREETS, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS, OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE CITY'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL DESIGNATE AND KEEP ON THE PROJECT AT ALL TIMES DURING ITS PROGRESS A COMPETENT SUPERINTENDENT WHO SHALL NOT BE REPLACED WITHOUT WRITTEN NOTICE TO THE CITY'S REPRESENTATIVE. THE SUPERINTENDENT WILL BE THE CONTRACTOR'S REPRESENTATIVE AT THE SITE AND SHALL HAVE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR. ALL COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO THE CONTRACTOR. DURING PERIODS WHEN THE WORK IS SUSPENDED, THE CONTRACTOR SHALL MAKE APPROPRIATE ARRANGEMENTS FOR ANY EMERGENCY WORK, WHICH MAY BE REQUIRED.
9. WHEN THE WORK OR ANY PORTION OF IT IS SUFFICIENTLY COMPLETE TO BE UTILIZED OR PLACED INTO SERVICE, THE CITY SHALL HAVE THE RIGHT UPON WRITTEN NOTIFICATION TO THE CONTRACTOR TO UTILIZE SUCH PORTIONS OF THE WORK AND TO PLACE THE OPERABLE PORTIONS INTO SERVICE AND TO OPERATE SAME. UPON SAID NOTICE AND COMMENCEMENT OF UTILIZATION OR OPERATION BY THE CITY, THE CONTRACTOR SHALL BE RELIEVED OF THE DUTY OF MAINTAINING THE PORTIONS SO UTILIZED OR PLACED INTO OPERATION; PROVIDED, HOWEVER, THAT NOTHING IN THIS NOTE SHALL BE CONSTRUED AS RELIEVING THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR COMPLETING THE WORK IN ITS ENTIRETY, FOR MAKING GOOD DEFECTIVE WORK AND MATERIALS, FOR PROTECTING THE WORK FROM DAMAGE, AND FOR BEING RESPONSIBLE FOR DAMAGE.
10. THE CONTRACTOR SHALL SO CONDUCT HIS OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC, AND HE SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAN HE CAN PROSECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC. CONVENIENT ACCESS TO DRIVEWAYS, HOUSES, AND BUILDINGS ALONG THE LINE OF WORK SHALL BE MAINTAINED AND TEMPORARY CROSSINGS SHALL BE PROVIDED AND MAINTAINED IN GOOD CONDITION.
11. UNTIL THE ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL HAVE THE RESPONSIBLE CHARGE AND CARE OF THE WORK AND OF THE MATERIALS TO BE USED THEREIN AND SHALL BEAR THE RISK OF INJURY, LOSS, OR DAMAGE TO ANY PART THEREOF BY THE ACTION OF ELEMENTS OR FROM ANY OTHER CAUSE, WHETHER ARISING FROM THE EXECUTION OR FROM THE NON-EXECUTION OF THE WORK.
12. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, AND THE CONTRACTOR SHALL FULLY COMPLY WITH ALL STATE, FEDERAL, AND OTHER LAWS, RULES, REGULATIONS, AND ORDERS RELATING TO SAFETY OF WORKERS AND ALL OTHERS. THIS MAY INCLUDE THE ISSUANCE OF PERSONAL PROTECTIVE EQUIPMENT.
13. THE LANDS AND RIGHTS-OF-WAY FOR THE PROJECT TO BE CONSTRUCTED WILL BE PROVIDED BY THE CITY AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS AND PAY ALL EXPENSES FOR ADDITIONAL AREA REQUIRED BY HIM BEYOND THE LIMITS OF THE CITY'S LANDS AND RIGHTS-OF-WAY. THE CONTRACTOR SHALL FURNISH WRITTEN COPIES OF ALL PERMISSION GRANTED BY PRIVATE PARTIES FOR ACCESS OR USE IN RELATION TO THIS PROJECT. AT THE END OF THE PROJECT AND PRIOR TO FINAL ACCEPTANCE THE CONTRACTOR SHALL OBTAIN RELEASES FROM ALL PARTIES WHERE PERMISSION WAS GRANTED.
14. ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED WITH THEIR APPROPRIATE LOCATION AND EXTENT. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT HE AGREES TO ASSUME THE LIABILITY AND AGREES TO HOLD THE CITY HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE CITY, NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, OR LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.
15. THE CONTRACTOR SHALL PERFORM ALL SURVEY WORK AND LAYOUT STREET CENTERLINE AND FIELD VERIFY THEIR CONFORMITY TO THE GRADES AND HORIZONTAL ALIGNMENTS SHOWN ON PLANS.
16. PLANS DO NOT SHOW ALL ABANDONED FACILITIES. FACILITIES ENCOUNTERED DURING THE PROSECUTION OF THE WORK, WHICH ARE DETERMINED TO BE ABANDONED, SHALL BE REMOVED BY THE CONTRACTOR AS REQUIRED FOR THE WORK. FULL COMPENSATION FOR SUCH WORK SHALL BE CONSIDERED AS INCLUDED IN THE BID PRICES FOR THE ITEMS OF WORK NECESSITATING SUCH REMOVALS.
17. THE CONTRACTOR SHALL NOT ORDER OR PLACE PORTLAND CEMENT CONCRETE UNTIL THE FORMS HAVE BEEN INSPECTED AND APPROVED BY THE CITY'S REPRESENTATIVE IN THE FIELD.
18. ALL ITEMS ON SITE TO BE PROTECTED IN PLACE EXCEPT NOTED OTHERWISE ON PLAN.
19. ELEVATIONS ARE IN FEET ABOVE THE U.S.C. & G.S. SEA LEVEL DATUM OF NAVD 1988.
20. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER.
21. APPROVAL OF THIS PLAN BY THE CITY OF CULVER CITY DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
22. THE CONTRACTOR SHALL NOT DISCHARGE OR PERMIT TO BE DISCHARGED TO ANY STREET, STORM DRAIN OR ANY APPURTENANCES THEREOF, ANY NON-RAIN WATER OR OTHER LIQUID FROM THE PROJECT SITE OR FROM OPERATIONS PERTAINING TO THE PROJECT SITE, PER NPDES PERMIT REGULATIONS AND CITY OF CULVER CITY STORMWATER MANAGEMENT AND DISCHARGE CONTROL PROGRAM, CCMC 5.05.
23. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITIES & UTILITY BOXES.
24. CONTRACTOR TO EXECUTE DUE PRECAUTION DURING EXCAVATION ADJACENT TO EXISTING WATER LINE OR POWER POLES AND PROVIDE ADEQUATE SHORING AND/OR BRACING.

TRAFFIC CONTROL GENERAL NOTES

1. ALL TRAFFIC CONTROL WORK FOR CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF:
   - THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (CA MUTCD),
   - WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH MANUAL),
   - ALL O.S.H.A. REQUIREMENTS.
2. ALL SIGNING AND STRIPING SHALL CONFORM TO THE LATEST CALTRANS STANDARD PLANS AND SPECIFICATIONS AND THE CITY OF CULVER CITY LATEST "SIGNING AND STRIPING GENERAL NOTES".
3. NO WORK SHALL BEGIN BEFORE 8:00 AM OR CONTINUE AFTER 5:00 PM ON ARTERIAL STREETS. THE ONLY EXCEPTION IS WHEN THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED FOR 24 HOUR LANE CLOSURES. IN THIS CASE, THE CONTRACTOR CAN ONLY WORK BEHIND THE TRAFFIC CONTROL DEVICES WITHIN THE APPROVED 24-HOUR LANE CLOSURE PERIOD.
4. NO WORK IS PERMITTED ON SUNDAYS OR HOLIDAYS UNLESS APPROVED BY THE CITY.
5. DURING NON-WORKING HOURS OR WHEN WORK IS NOT SCHEDULED, ALL ROADWAYS LANES SHALL BE RETURNED TO THEIR FULL TRAFFIC USAGE ONTHE SAME DAY BY PLATING OR BACKFILLING THE OPEN TRENCHES, AND CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL OR DETOUR OR AS DIRECTED BY THE CITY REPRESENTATIVE. THE ONLY EXCEPTION IS WHEN THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED FOR 24 HOUR LANE CLOSURES. IN THIS CASE, THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL OR DETOURS DURING THE APPROVED 24-HOUR LANE CLOSURES.
6. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS POINT TO ALL ADJACENT PROPERTIES AND FIRE HYDRANTS.
7. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
8. THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. ALL TUBULAR DELINEATORS SHALL BE 36" MINIMUM HEIGHT AND CONES SHALL BE 28" MINIMUM HEIGHT AND SHALL INCLUDE A 6" AND 4" HIGH INTENSITY REFLECTORIZED SLEEVES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED BY THE CITY TO ASSURE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL RESTORE ANY AND ALL STRIPING, PAVEMENT MARKINGS, AND TRAFFIC SIGNAL LOOPS DAMAGED OR REMOVED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY REPRESENTATIVE.
12. THE CONTRACTOR SHALL TELEPHONE THE CITY OF CULVER CITY INSPECTION AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO THE STARTING TRAFFIC CONTROL DELINEATION.
13. ARROW BOARDS SHALL BE USED ON ANY LANE CLOSURES ON ARTERIAL STREETS.
14. THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION ON MAJOR ARTERIAL STREETS.
16. ANY TRAFFIC SIGNAL DETECTION LOOPS SHOWN AS PART OF THESE PLANS TO BE DAMAGED SHALL BE REPLACED BY THE END OF THE WORK DAY.
17. IF TRAFFIC SIGNAL DETECTION LOOPS CANNOT BE REPLACED BY THE END OF THE WORK DAY THEN THE CONTRACTOR, PRIOR TO CUTTING ANY DETECTION LOOP SYSTEM, SHALL FURNISH AND INSTALL AN OPERATIONAL TEMPORARY VIDEO DETECTION SYSTEM IN ACCORDANCE WITH CITY OF CULVER CITY STANDARDS.
18. ANY UNANTICIPATED DAMAGES TO THE TRAFFIC SIGNAL INTERCONNECT CONDUIT, INTERCONNECT CABLE, OR DETECTION LOOP SYSTEM DURING OPERATIONS OF THIS PERMIT SHALL BE REPLACED WITHIN 72 HOURS TO THE SATISFACTION OF THE CITY INSPECTOR.

ENGINEER'S NOTICE TO CONTRACTOR

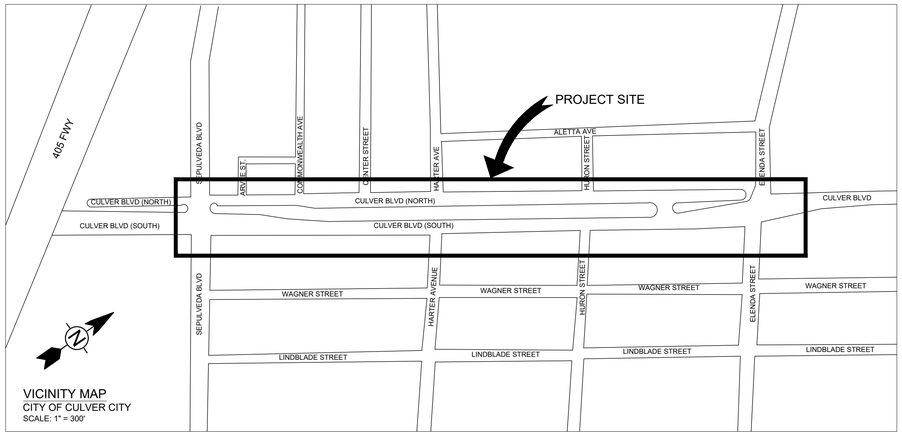
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES INCLUDING GAS LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

BENCH MARK STATEMENT:

SURVEYOR'S NOTES:

1. DATE OF SURVEY: OCTOBER 9, 10, 11, 12, 16, 18 AND 23, 2012.
2. HORIZONTAL DATUM BASED UPON R.S.164-42/45.
   THRU SURVEY CONTROL POINT NO.'S 122, 121 AND 35.
3. VERTICAL DATUM:
   NAVD 88 BASED UPON R.S. 164-42/45.
   THRU SURVEY CONTROL POINT NO.'S 122, 121 AND 35.
4. UNDERGROUND UTILITIES SHOWN HEREON ARE PER CULVER CITY, EXXON MOBILE CO., LA COUNTY FLOOD CONTROL DISTRICT, SO. CAL. EDISION AND SO. CAL. GAS RECORDS AND PER FIELD LOCATION AS EVIDENCED BY PAINT MARKS ON THE PAVEMENT, AND CANNOT BE GUARANTEED FOR COMPLETENESS OR ACCURACY. THEIR LOCATION SHOULD BE VERIFIED IN THE FIELD BEFORE ANY EXCAVATING.

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
(310) 253-5600
CULVER BOULEVARD REALIGNMENT



VICINITY MAP
CITY OF CULVER CITY
SCALE: 1" = 300'

SHEET INDEX

SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	NOTES AND LEGEND (OMITTED @ 35%)
3	CIVIL DETAILS (OMITTED @ 35%)
4	DEMO PLANS
5	DEMO PLANS
6	DEMO PLANS
7	SEQUENCE PLANS
8	CROSS SECTIONS
9	PLAN VIEW 10+00 TO 16+00
10	PLAN VIEW 16+00 TO 22+00
11	PLAN VIEW 22+00 TO 28+00
12	PLAN VIEW 28+00 TO 33+25
13	PROFILE VIEW 10+00 TO 16+00
14	PROFILE VIEW 16+00 TO 22+00
15	PROFILE VIEW 22+00 TO 28+00
16	PROFILE VIEW 28+00 TO 33+25
17	STORM DRAIN RELOCATION PLAN
18	CONSTRUCTION DETAILS
19	CONSTRUCTION DETAILS
20	CONSTRUCTION DETAILS
21	CONSTRUCTION DETAILS
22	SIGNING AND STRIPING PLANS
23	SIGNING AND STRIPING PLANS
24	SIGNING AND STRIPING PLANS

UTILITY COMPANY CONTACTS

COMPANY	CONTACT	PHONE NO.
UNDERGROUND SERVICE ALERT		1-800-227-2600
SOUTHERN CALIFORNIA GAS COMPANY	JASON JONES	(310) 687-2026
SOUTHERN CALIFORNIA WATER COMPANY	CHUCK DELGADILLO	(310) 838-2144
SOUTHERN CALIFORNIA EDISON	JACK HOPKINS	(310) 315-3271
GENERAL TELEPHONE CO. (GTE)	ALBERT ALEMAN	(310) 584-4442
MCI WORLDCOM	JAMES BURNETT	(714) 783-1177
PACIFIC BELL	LOREY LAVERY	(818) 373-5960
LADWP	HAMID FADAKAR	(310) 367-5659
CHEVRON PIPELINE COMPANY	GERALD McCLELLAN	(714) 228-1530
MOBILE OIL CORPORATION	TERRI SHINDE	(310) 212-1794
MWD-WATER SYSTEM OPERATION GROUP	KEVIN JOHANSEN	(562) 713-0348

DIGALERT
DIAL TOLL FREE 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER WAYNE PATRICK RICHARDSON No. 46808 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

TITLE SHEET

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET G-01
SHEET 1 OF SHEETS

Copyright: Tetra Tech

Bar Measures 1 inch

7/10/2018 8:18:52 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\G-01-TITLE SHEET.DWG - VU, KEVIN

CONSTRUCTION NOTES

1 REMOVE EX MEDIAN INCLUDING CURBS, AC PAVEMENT, PEDESTRIAN PATH AND OTHER EX IMPROVEMENTS AS DIRECTED BY THE ENGINEER.

CONSTRUCTION NOTES

1. NOT USED
2. CONSTRUCT 3000 PSI P.C.C. PAVEMENT, 9" DEEP WITHOUT REBAR OVER 12" CMB OVER NATIVE GROUND @ 95% COMPACTION.
3. CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION.
4. CONSTRUCT 4" DG OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION.
5. CONSTRUCT 8" TYPE A1-8 CURB PER SPPWC STD. 120-2.
6. CONSTRUCT 8" TYPE A2-8 CURB AND GUTTER PER SPPWC STD. 120-2.
7. CONSTRUCT CURB OPENING CATCH BASIN PER SPPWC STD. PLAN 300-3, W=3.5'
8. CONSTRUCT 4" PCC SIDEWALK PER SPPWC STD. 113-2.
9. CONSTRUCT ACCESS RAMP WITH BLUE 3'X4' TRUNCATED DOMES PER MODIFIED SPPWC STD. PLAN 111-5, TYPE, CASE, AND DETAIL PER PLAN.
10. NOT USED.
11. CONSTRUCT CROSS GUTTER PER SPPWC STD. PLAN 122-2.
12. CONSTRUCT MEDIAN TAPER PER SPPWC STD. 140-3.
13. CONSTRUCT MEDIAN FLARE PER SPPWC STD. 141-2.
14. NOT USED.
15. ADJUST MANHOLE TO MATCH FINISHED GRADE.
16. RELOCATE TRAFFIC SIGN.
17. ADJUST ELEC. EQUIPMENT TO MATCH FINISHED GRADE.
18. ADJUST TEL. EQUIPMENT TO MATCH FINISHED GRADE.
19. CONSTRUCT MODIFIED PARKWAY DRAIN PER SPPWC STD. XXX.
20. CONSTRUCT CONCRETE PAVERS PER DETAIL A ON SHEET X AND FINISH PER LANDSCAPE PLANS.
21. NOT USED.
22. COLD MILL EXISTING A.C. PAVEMENT TO 2" BELOW PROPOSED ROADWAY FINISH SURFACE.
23. ADJUST EXISTING WATER VALVE TO GRADE.
24. CONSTRUCT 6" AC OVER 12" CMB PAVEMENT OVER NATIVE GROUND @ 95% COMPACTION.
25. CONSTRUCT 5" PCC OVER 12" CMB PAVEMENT OVER NATIVE GROUND @ 95% COMPACTION. FINISH PER LANDSCAPE PLANS.

CONSTRUCTION NOTES

1. RELOCATE TRAFFIC SIGN.

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

NOTES AND LEGEND (OMITTED @ 35%)

APPROVED BY CHARLES D. HERBERTSON

PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
G-02
SHEET 2 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:19:03 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\G-02-LEGEND NOTES.DWG - VU, KEVIN

1 2 3 4 5 6 7

F

E

D

C

B

A

0 ### ### ###

SCALE: ########

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

CIVIL DETAILS (OMITTED @ 35%)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

APPROVED BY CHARLES D. HERBERTSON

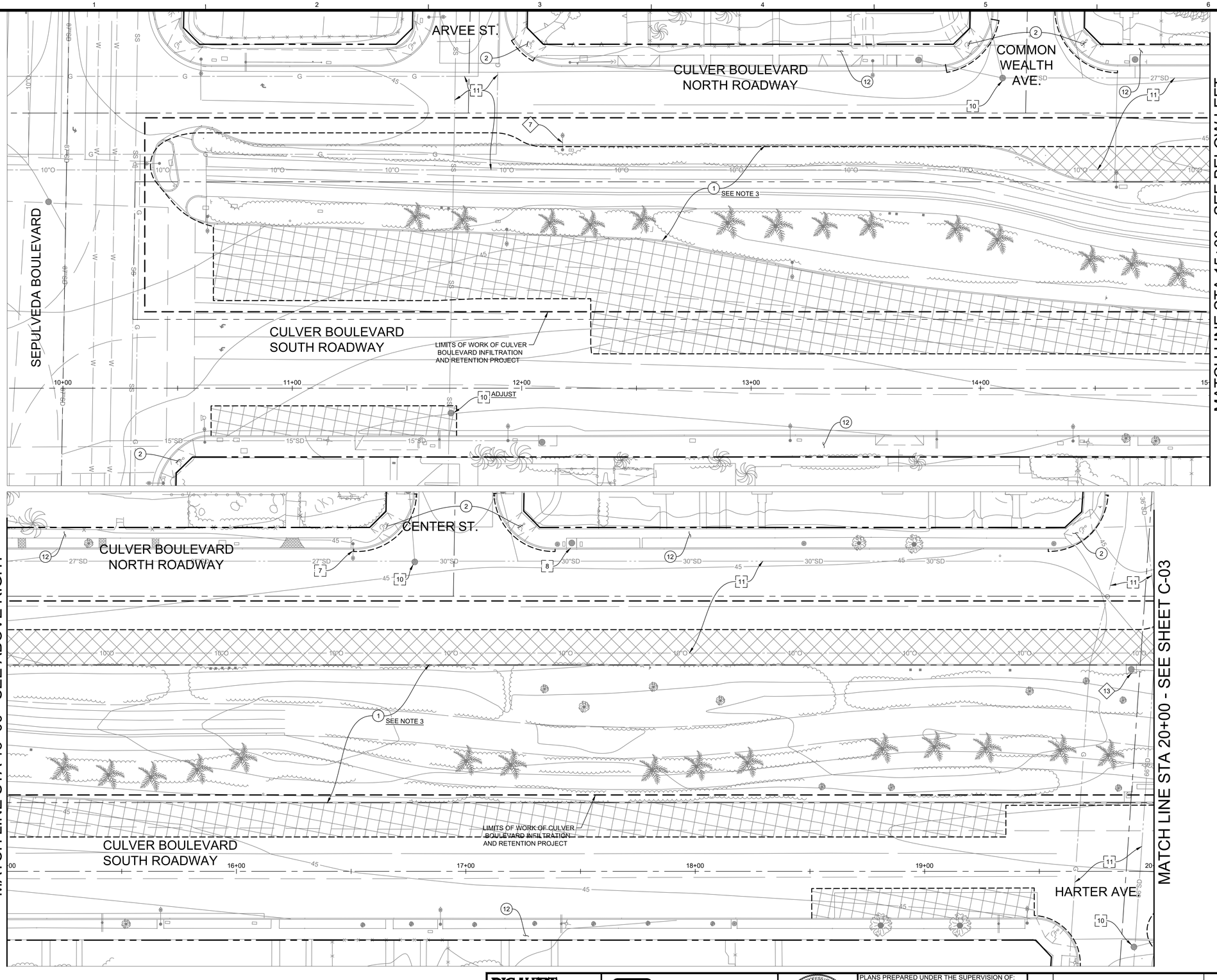
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
C-01
SHEET 3 OF SHEETS

Copyright: Tetra Tech

Bar Measures 1 inch

7/10/2018 8:19:08 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-01-CIVIL DETAILS.DWG - VU, KEVIN



CONSTRUCTION NOTES (THIS SHEET):

XX PROTECT IN PLACE

XX RELOCATE

XX REMOVE

1 REMOVE EX MEDIAN INCLUDING CURBS, AC PAVEMENT, PEDESTRIAN PATH AND OTHER EX IMPROVEMENTS AS DIRECTED BY THE ENGINEER.
2 CURB RAMP
4 UTILITY BOX
7 LIGHTPOLE AND APPURTENANCES
8 STORM DRAIN CATCH BASIN

11 UTILITY (POSITIVELY IDENTIFY)
12 SIDEWALK
13 STORM DRAIN CATCH BASIN

LEGEND

- EXISTING ROADWAY STRUCTURAL SECTION REMOVAL (APPROXIMATE)
- EX. R/W
- SAWCUT

NOTES

1. UTILITIES SHOWN HAVE BEEN COMPILED FROM AVAILABLE RECORDS. ENGINEER IS NOT RESPONSIBLE FOR UTILITIES SHOWN OR NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND POSITIVELY IDENTIFYING ALL UTILITIES IN THE WORK AREA PRIOR TO CONSTRUCTION.
2. STREET AND PRIVATE IMPROVEMENTS SHOWN HAVE BEEN COMPILED FROM AVAILABLE RECORDS. ENGINEER IS NOT RESPONSIBLE FOR EXISTING IMPROVEMENTS SHOWN OR NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND POSITIVELY IDENTIFYING ALL EXISTING IMPROVEMENTS IN THE WORK AREA PRIOR TO BIDDING.
3. FOR MEDIAN DEMOLITION BETWEEN SEPULVEDA BLVD AND HARTER AVE, SEE SIDEWALK PLANS.

0 10' 20' 40'
SCALE: 1"=20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

DEMO PLANS
FROM STA 11+00 TO STA 21+65

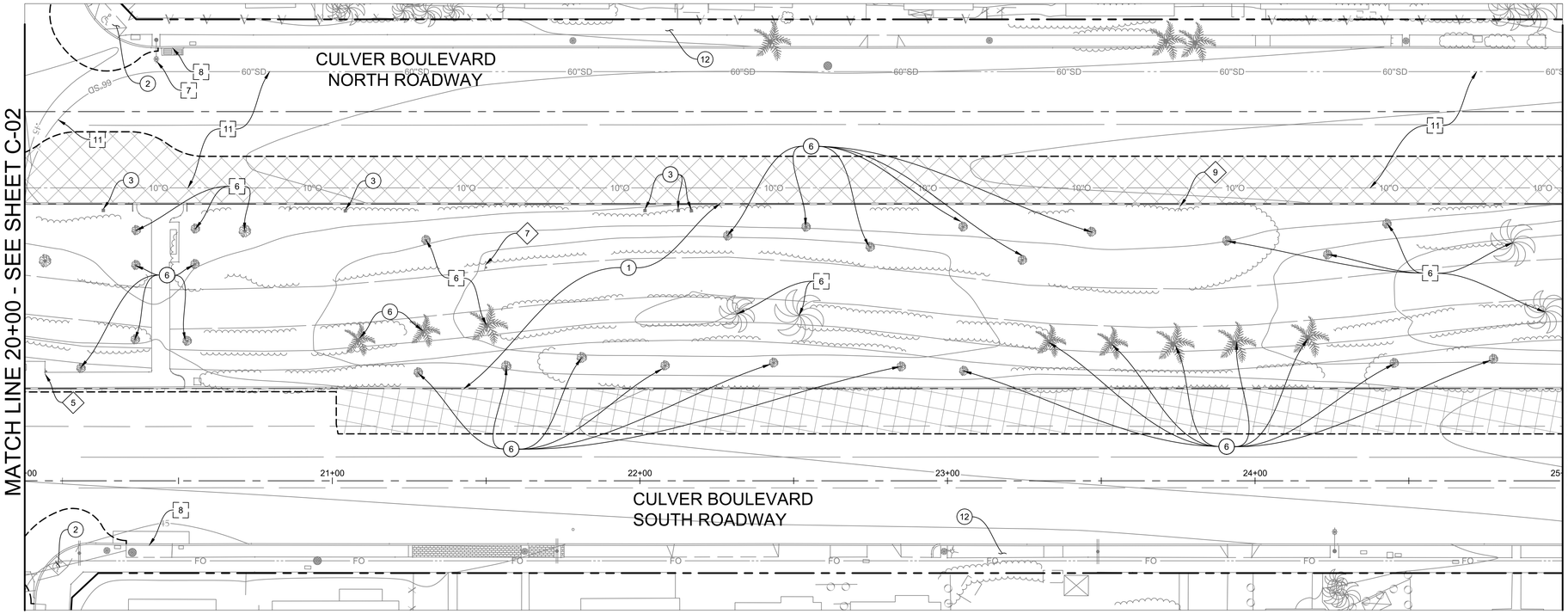
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

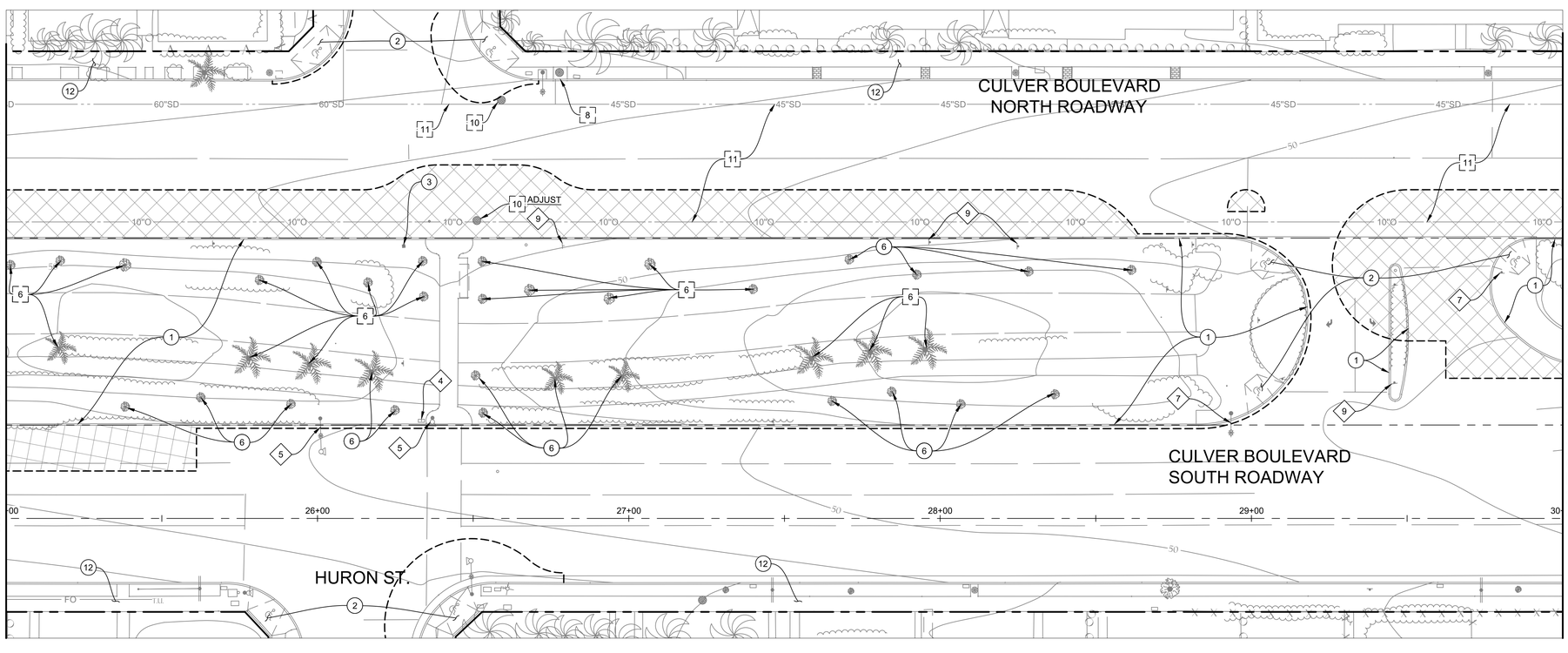
SHEET
C-02
SHEET 4 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:19:26 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-02-DEMO PLANS.DWG - VU, KEVIN





CONSTRUCTION NOTES (THIS SHEET):

XX PROTECT IN PLACE

XX REMOVE

XX RELOCATE

1 REMOVE EX MEDIAN INCLUDING CURBS, AC PAVEMENT, PEDESTRIAN PATH AND OTHER EX IMPROVEMENTS AS DIRECTED BY THE ENGINEER.
2 CURB RAMP
3 IRRIGATION WATER VALVE/METER
4 UTILITY BOX
5 TRAFFIC POLE AND APPURTENANCES
6 TREE/ SHRUBBERY
7 LIGHTPOLE AND APPURTENANCES
8 STORM DRAIN CATCH BASIN
9 TRAFFIC/PARKING SIGN
10 MANHOLE
11 UTILITY (POSITIVELY IDENTIFY)

LEGEND

- EXISTING ROADWAY STRUCTURAL SECTION REMOVAL (APPROXIMATE)
- EX. R/W
- SAWCUT

NOTES

1. UTILITIES SHOWN HAVE BEEN COMPILED FROM AVAILABLE RECORDS. ENGINEER IS NOT RESPONSIBLE FOR UTILITIES SHOWN OR NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND POSITIVELY IDENTIFYING ALL UTILITIES IN THE WORK AREA PRIOR TO CONSTRUCTION.
2. STREET AND PRIVATE IMPROVEMENTS SHOWN HAVE BEEN COMPILED FROM AVAILABLE RECORDS. ENGINEER IS NOT RESPONSIBLE FOR EXISTING IMPROVEMENTS SHOWN OR NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND POSITIVELY IDENTIFYING ALL EXISTING IMPROVEMENTS IN THE WORK AREA PRIOR TO BIDDING.

0 10' 20' 40'
SCALE: 1"=20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
PATRICK RIORDAN
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE
PROJECT NUMBER # 200-154197-18001
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

DEMO PLANS
FROM STA 21+65 TO STA 32+00

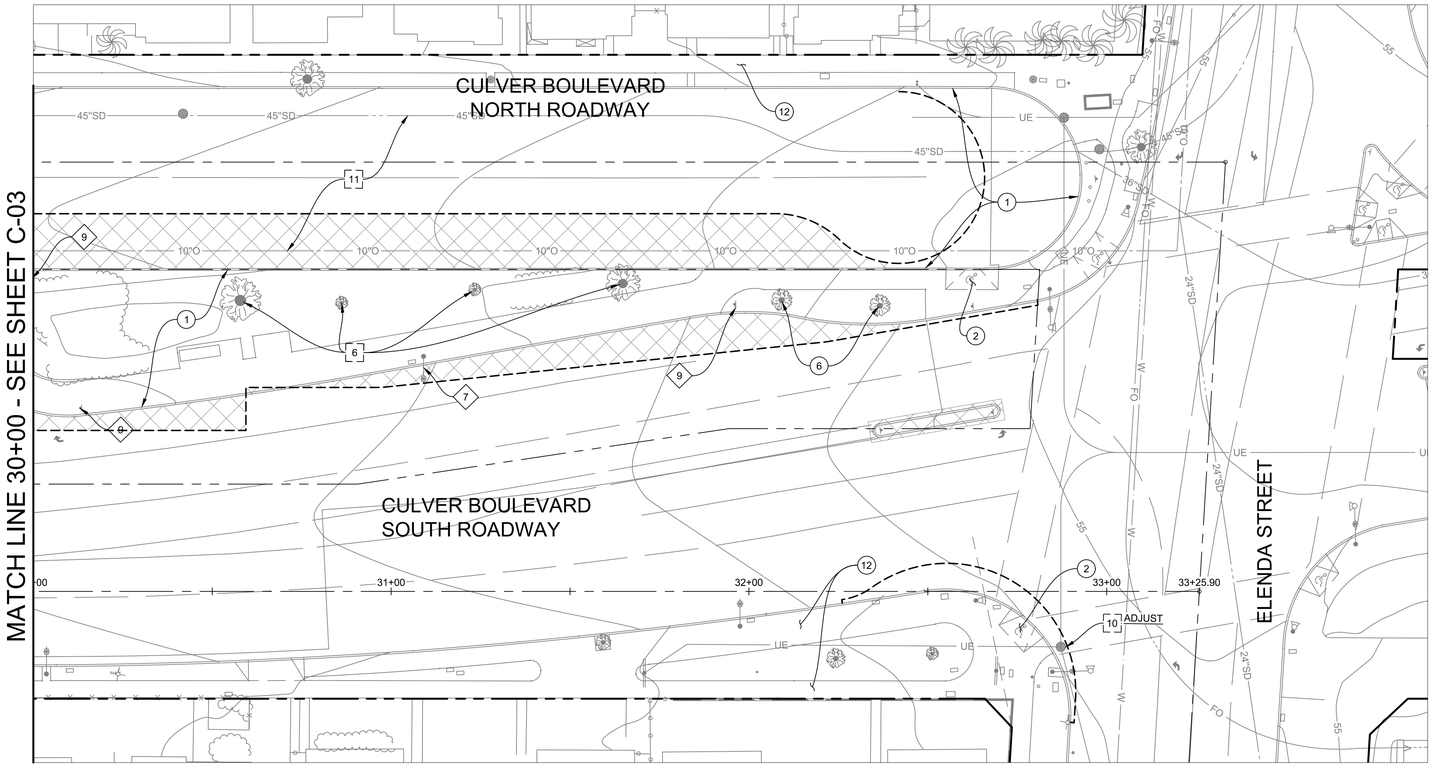
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
C-03
SHEET 5 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:19:46 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-03-DEMO PLANS.DWG - VU, KEVIN



CONSTRUCTION NOTES (THIS SHEET):

XX PROTECT IN PLACE

XX RELOCATE

XX REMOVE

2 CURB RAMP
6 TREE/ SHRUBBERY
7 LIGHTPOLE AND APPURTENANCES
9 TRAFFIC/PARKING SIGN
10 MANHOLE
11 UTILITY (POSITIVELY IDENTIFY)

LEGEND

- EXISTING ROADWAY STRUCTURAL SECTION REMOVAL (APPROXIMATE)
- EX. R/W
- SAWCUT

NOTES

1. UTILITIES SHOWN HAVE BEEN COMPILED FROM AVAILABLE RECORDS. ENGINEER IS NOT RESPONSIBLE FOR UTILITIES SHOWN OR NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND POSITIVELY IDENTIFYING ALL UTILITIES IN THE WORK AREA PRIOR TO CONSTRUCTION.
2. STREET AND PRIVATE IMPROVEMENTS SHOWN HAVE BEEN COMPILED FROM AVAILABLE RECORDS. ENGINEER IS NOT RESPONSIBLE FOR EXISTING IMPROVEMENTS SHOWN OR NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND POSITIVELY IDENTIFYING ALL EXISTING IMPROVEMENTS IN THE WORK AREA PRIOR TO BIDDING.

0 10' 20' 40'
SCALE: 1"=20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DEMO PLANS
FROM STA 32+00 TO STA 34+78

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

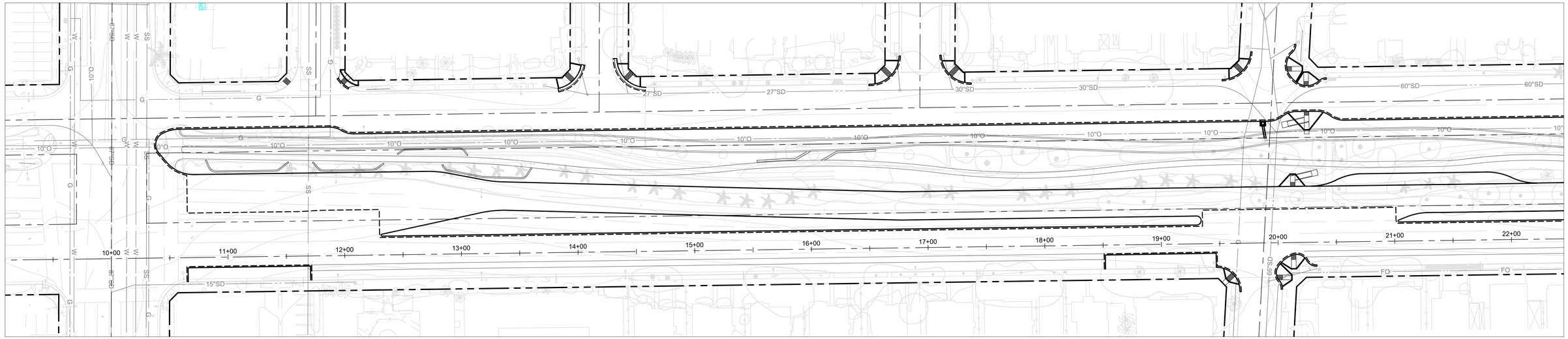
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

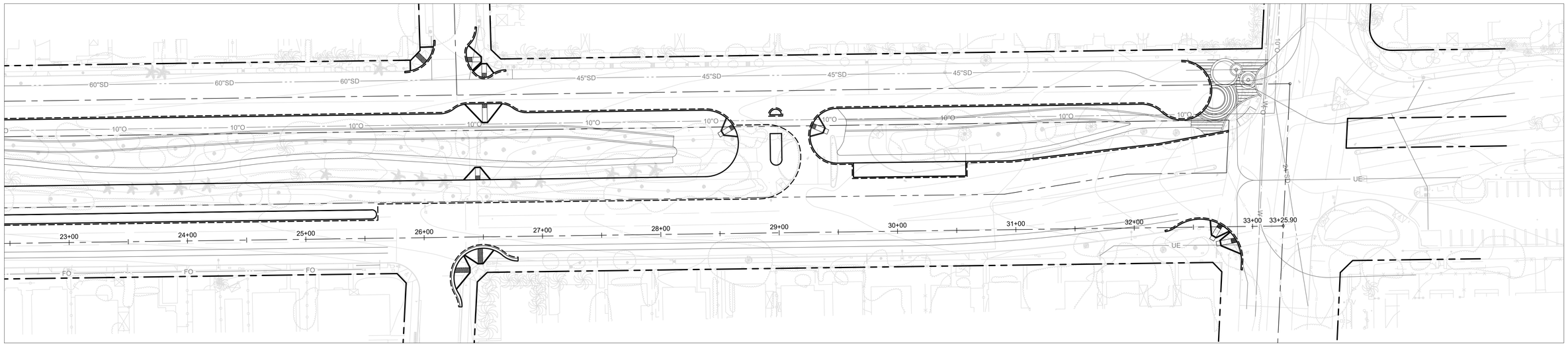
SHEET
C-04
SHEET 6 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:20:25 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-04-DEMO PLANS.DWG - VU, KEVIN





SCALE: 1"=40'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

CONSTRUCTION
SEQUENCE PLANS

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

APPROVED BY CHARLES D. HERBERTSON

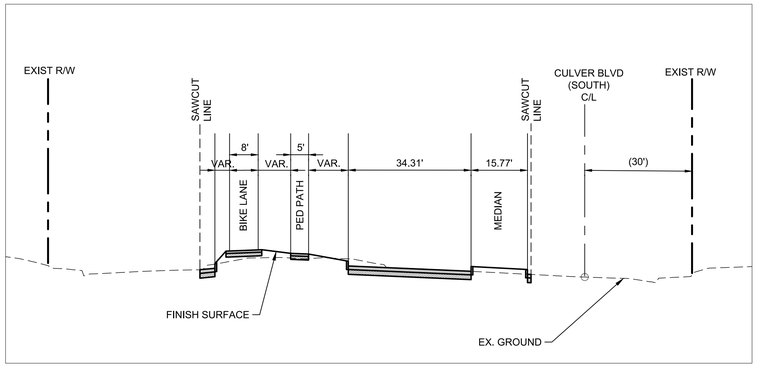
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
C-05
SHEET 7 OF SHEETS

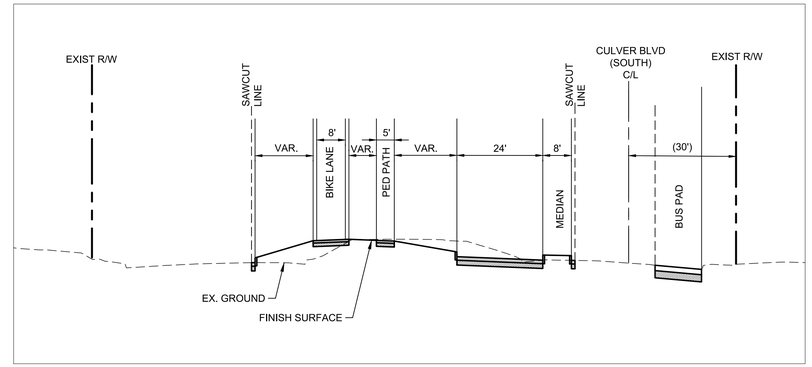
Bar Measures 1 inch

Copyright: Tetra Tech

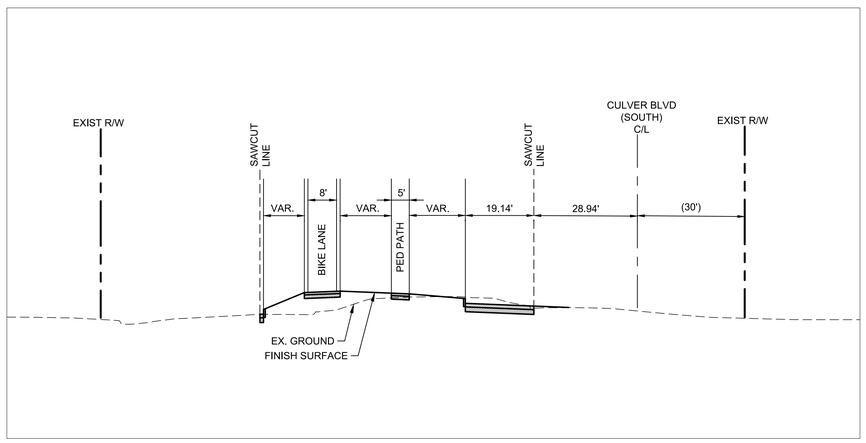
7/10/2018 8:20:40 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-05-SEQUENCE PLANS.DWG - VU, KEVIN



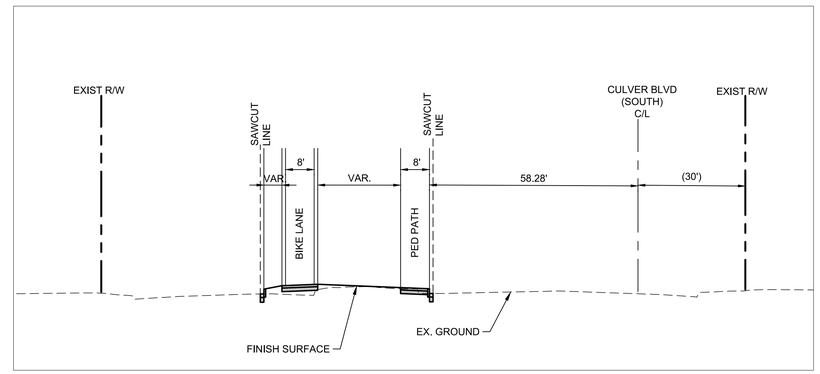
A TYPICAL SECTION AT STA 13+00
SCALE: 1" = 20'



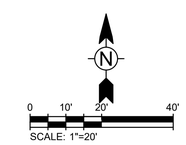
B TYPICAL SECTION AT STA 19+00
SCALE: 1" = 20'



C TYPICAL SECTION AT STA 26+00
SCALE: 1" = 20'



D TYPICAL SECTION AT STA 31+00
SCALE: 1" = 20'



CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

TYPICAL CROSS SECTIONS

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
PATRICK RITCHIE
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE
PROJECT NUMBER # 200-154197-18001
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

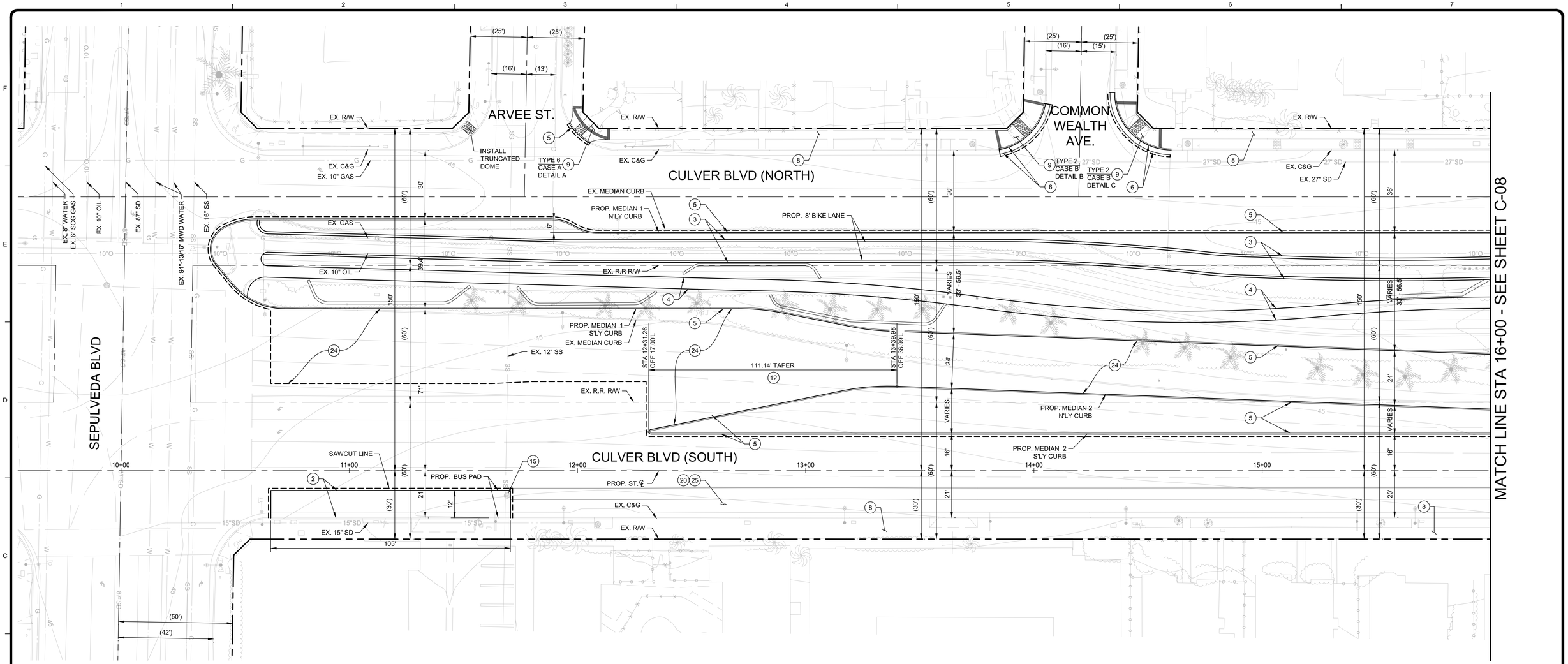
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-06
SHEET 8 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:20:48 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-06-CROSS SECTIONS.DWG - VU, KEVIN



CONSTRUCTION NOTES

2. CONSTRUCT 3000 PSI P.C.C. PAVEMENT, 9" DEEP WITHOUT REBAR OVER 12" CMB OVER NATIVE GROUND @ 95% COMPACTION.
3. CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION.
4. CONSTRUCT 4" DG OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION.
5. CONSTRUCT 8" TYPE A1-8 CURB PER SPPWC STD. 120-2.
6. CONSTRUCT 8" TYPE A2-8 CURB AND GUTTER PER SPPWC STD. 120-2.
8. CONSTRUCT 4" PCC SIDEWALK PER SPPWC STD. 113-2.
9. CONSTRUCT ACCESS RAMP WITH BLUE 3'X4' TRUNCATED DOMES PER MODIFIED SPPWC STD. PLAN 111-5, TYPE, CASE, AND DETAIL PER PLAN.
12. CONSTRUCT MEDIAN TAPER PER SPPWC STD. 140-3.
15. ADJUST MANHOLE TO MATCH FINISHED GRADE.
16. RELOCATE TRAFFIC SIGN.
17. ADJUST ELEC. EQUIPMENT TO MATCH FINISHED GRADE.
18. ADJUST TEL. EQUIPMENT TO MATCH FINISHED GRADE.
20. CONSTRUCT CONCRETE PAVERS PER DETAIL A ON SHEET X AND FINISH PER LANDSCAPE PLANS.
23. ADJUST EXISTING WATER VALVE TO GRADE.
24. CONSTRUCT 6" AC OVER 12" CMB PAVEMENT OVER NATIVE GROUND @ 95% COMPACTION.
25. CONSTRUCT 5" PCC OVER 12" CMB PAVEMENT OVER NATIVE GROUND @ 95% COMPACTION. FINISH PER LANDSCAPE PLANS.

0 10' 20' 40'
SCALE: 1" = 20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER WAYNE PATRICK RICHARDSON No. 46808 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CULVER BLVD PLAN
FROM STA 10+00 TO STA 16+00

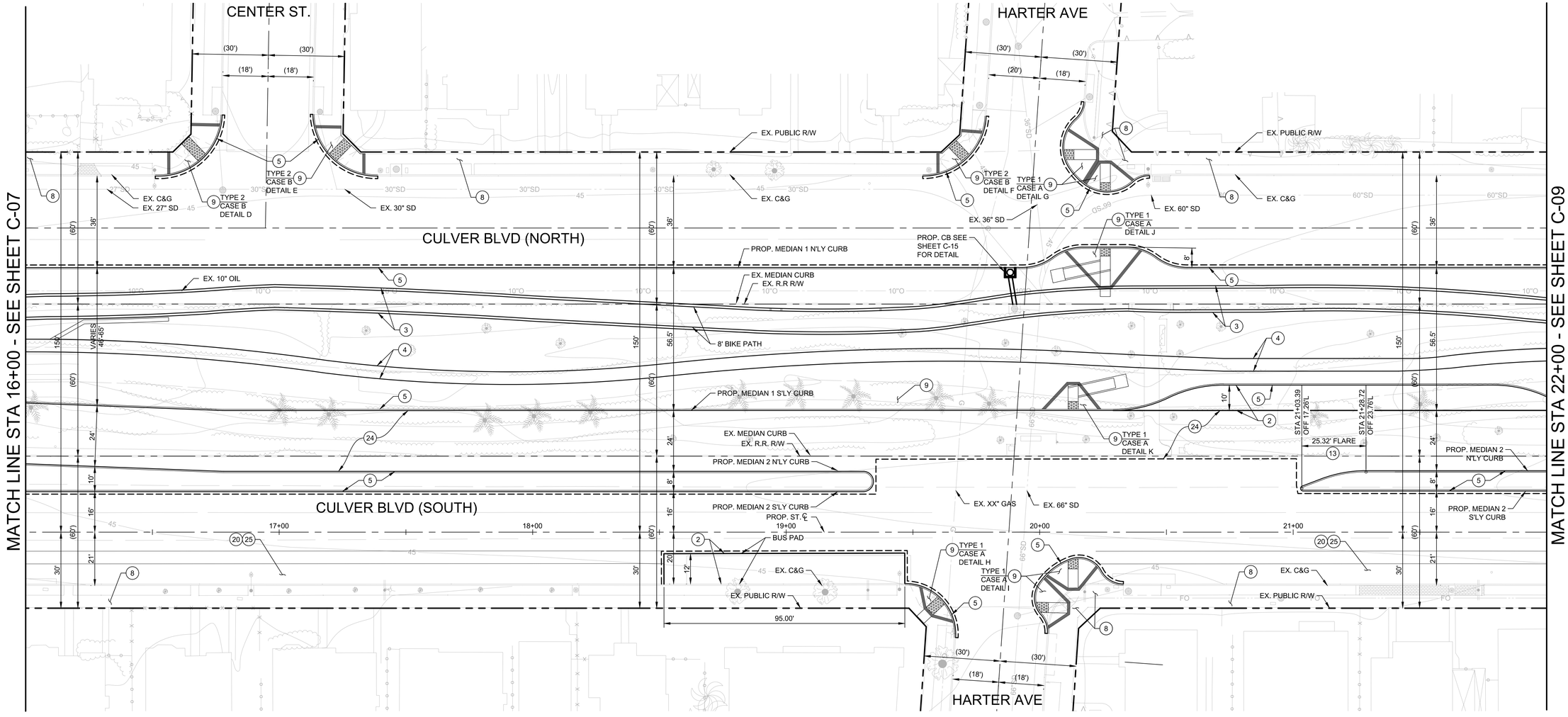
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-07
SHEET 9 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:21:03 AM - O:\PROJECTS\IRVINE\154197\200-154197-180011\CAD\SHEETFILES\C-07-PLAN VIEW 10+00 TO 16+00.DWG - VU, KEVIN



CONSTRUCTION NOTES

2. CONSTRUCT 3000 PSI P.C.C. PAVEMENT, 9" DEEP WITHOUT REBAR OVER 12" CMB OVER NATIVE GROUND @ 95% COMPACTION.
3. CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION.
4. CONSTRUCT 4" DG OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION.
5. CONSTRUCT 8" TYPE A1-8 CURB PER SPPWC STD. 120-2.
8. CONSTRUCT 4" PCC SIDEWALK PER SPPWC STD. 113-2.
9. CONSTRUCT ACCESS RAMP WITH BLUE 3'X4' TRUNCATED DOMES PER MODIFIED SPPWC STD. PLAN 111-5, TYPE, CASE, AND DETAIL PER PLAN.
13. CONSTRUCT MEDIAN FLARE PER SPPWC STD. 141-2.
16. RELOCATE TRAFFIC SIGN.
17. ADJUST ELEC. EQUIPMENT TO MATCH FINISHED GRADE.
18. ADJUST TEL. EQUIPMENT TO MATCH FINISHED GRADE.
20. CONSTRUCT CONCRETE PAVERS PER DETAIL A ON SHEET X AND FINISH PER LANDSCAPE PLANS.
23. ADJUST EXISTING WATER VALVE TO GRADE.
24. CONSTRUCT 6" AC OVER 12" CMB PAVEMENT OVER NATIVE GROUND @ 95% COMPACTION.
25. CONSTRUCT 5" PCC OVER 12" CMB PAVEMENT OVER NATIVE GROUND @ 95% COMPACTION. FINISH PER LANDSCAPE PLANS.

0 10' 20' 40'
SCALE: 1" = 20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER PATRICK RICHARDSON No. 46808 EXP. 06/30/19 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE
PROJECT NUMBER # 200-154197-18001
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CULVER BLVD PLAN
FROM STA 16+00 TO STA 22+00

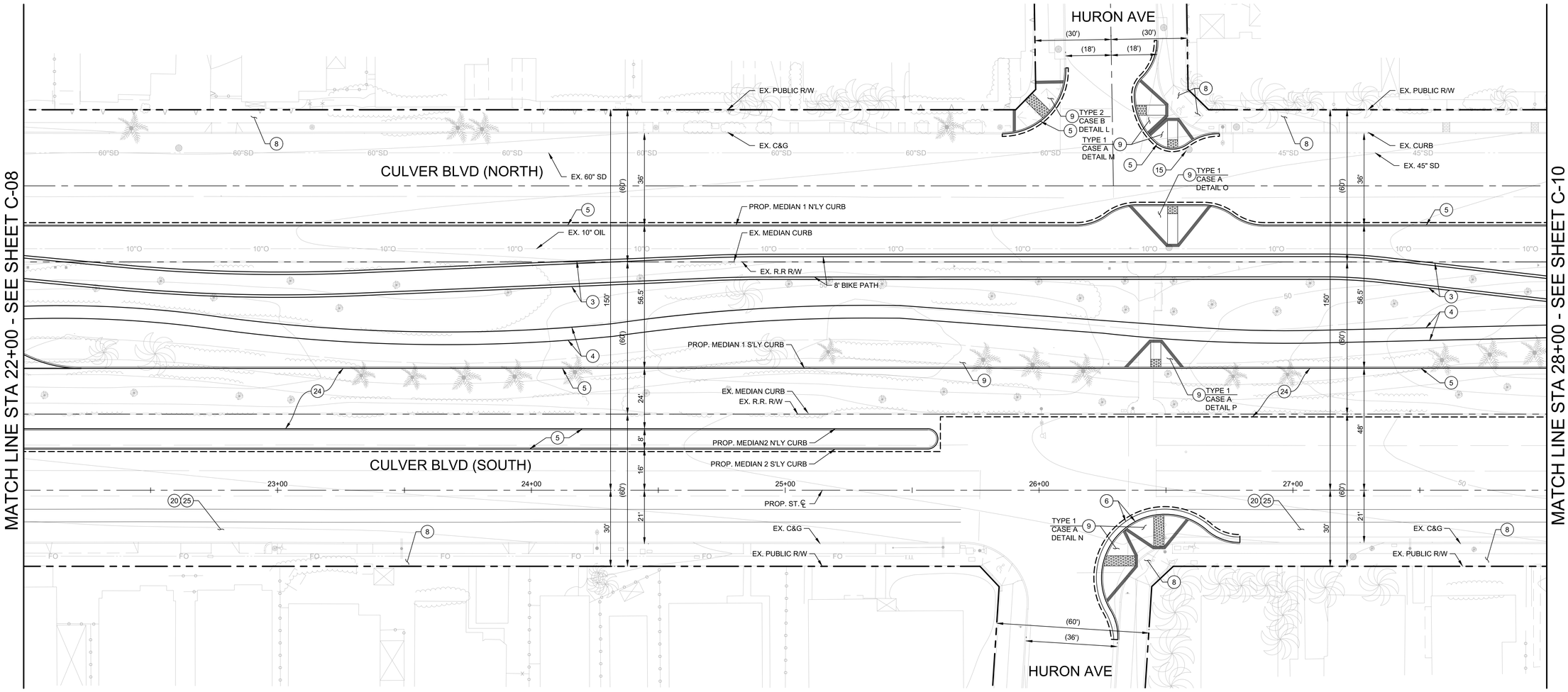
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-08
SHEET 10 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:21:18 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-08-PLAN VIEW 16+00 TO 22+00.DWG - VU, KEVIN



CONSTRUCTION NOTES

3. CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION.
4. CONSTRUCT 4" DG OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION.
5. CONSTRUCT 8" TYPE A1-8 CURB PER SPPWC STD. 120-2.
6. CONSTRUCT 8" TYPE A2-8 CURB AND GUTTER PER SPPWC STD. 120-2.
8. CONSTRUCT 4" PCC SIDEWALK PER SPPWC STD. 113-2.
9. CONSTRUCT ACCESS RAMP WITH BLUE 3'X4' TRUNCATED DOMES PER MODIFIED SPPWC STD. PLAN 111-5, TYPE, CASE, AND DETAIL PER PLAN.
15. ADJUST MANHOLE TO MATCH FINISHED GRADE.
16. RELOCATE TRAFFIC SIGN.
17. ADJUST ELEC. EQUIPMENT TO MATCH FINISHED GRADE.
18. ADJUST TEL. EQUIPMENT TO MATCH FINISHED GRADE.
20. CONSTRUCT CONCRETE PAVERS PER DETAIL A ON SHEET X AND FINISH PER LANDSCAPE PLANS.
23. ADJUST EXISTING WATER VALVE TO GRADE.
25. CONSTRUCT 5" PCC OVER 12" CMB PAVEMENT OVER NATIVE GROUND @ 95% COMPACTION. FINISH PER LANDSCAPE PLANS.

0 10' 20' 40'
SCALE: 1" = 20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE
PROJECT NUMBER # 200-154197-18001
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CULVER BLVD PLAN
FROM STA 22+00 TO STA 28+00

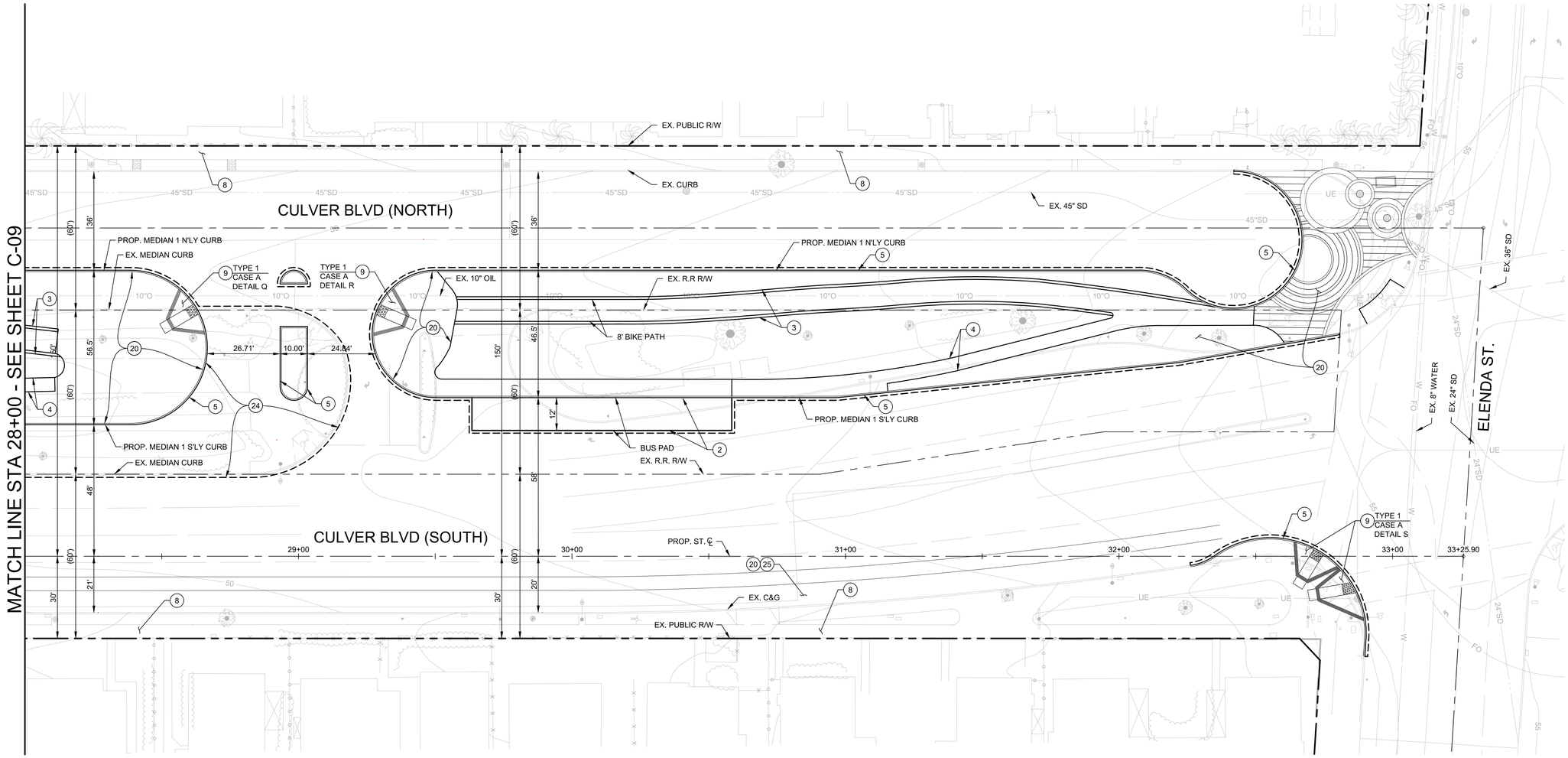
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-09
SHEET 11 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:21:33 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-09-PLAN VIEW 22+00 TO 28+00.DWG - VU, KEVIN



CONSTRUCTION NOTES

(2) CONSTRUCT 3000 PSI P.C.C. PAVEMENT, 9" DEEP WITHOUT REBAR OVER 12" CMB OVER NATIVE GROUND @ 95% COMPACTION.

(3) CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION.

(4) CONSTRUCT 4" DG OVER 6" CMB OVER NATIVE GROUND @ 95% RELATIVE COMPACTION.

(5) CONSTRUCT 8" TYPE A1-8 CURB PER SPPWC STD. 120-2.

(6) CONSTRUCT 8" TYPE A2-8 CURB AND GUTTER PER SPPWC STD. 120-2.

(8) CONSTRUCT 4" PCC SIDEWALK PER SPPWC STD. 113-2.

(9) CONSTRUCT ACCESS RAMP WITH BLUE 3'X4' TRUNCATED DOMES PER MODIFIED SPPWC STD. PLAN 111-5, TYPE, CASE, AND DETAIL PER PLAN.

(15) ADJUST MANHOLE TO MATCH FINISHED GRADE.

(16) RELOCATE TRAFFIC SIGN.

(17) ADJUST ELEC. EQUIPMENT TO MATCH FINISHED GRADE.

(18) ADJUST TEL. EQUIPMENT TO MATCH FINISHED GRADE.

(20) CONSTRUCT CONCRETE PAVERS PER DETAIL A ON SHEET X AND FINISH PER LANDSCAPE PLANS.

(23) ADJUST EXISTING WATER VALVE TO GRADE.

(25) CONSTRUCT 5" PCC OVER 12" CMB PAVEMENT OVER NATIVE GROUND @ 95% COMPACTION. FINISH PER LANDSCAPE PLANS.

0 10' 20' 40'
SCALE: 1" = 20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE
PROJECT NUMBER # 200-154197-18001
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CULVER BLVD PLAN
FROM STA 28+00 TO STA 33+25

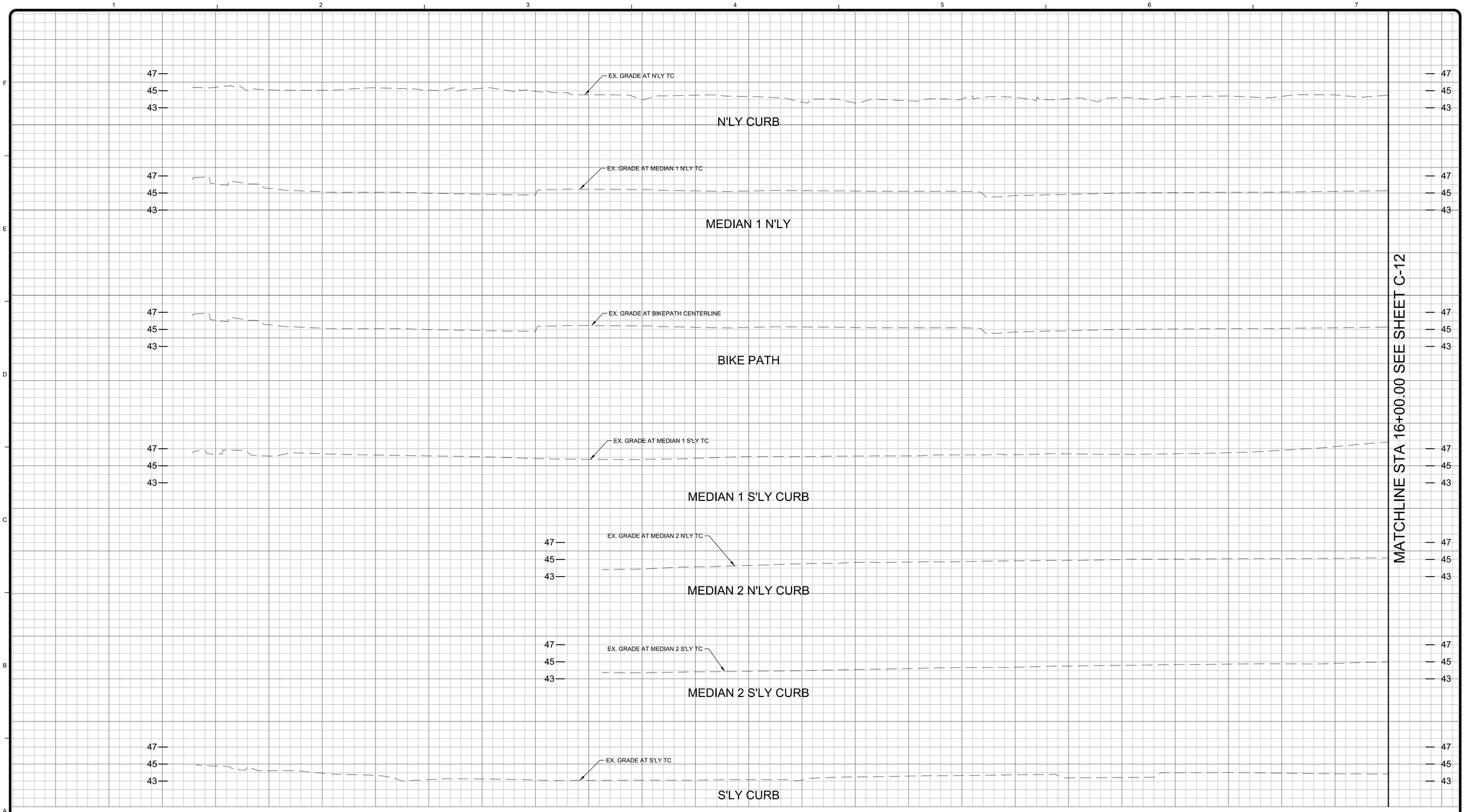
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-10
SHEET 12 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:21:47 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-10-PLAN VIEW 28+00 TO 33+25.DWG - VU, KEVIN



PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 5'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

CULVER BLVD PROFILE
FROM STA 10+00 TO STA 16+00

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

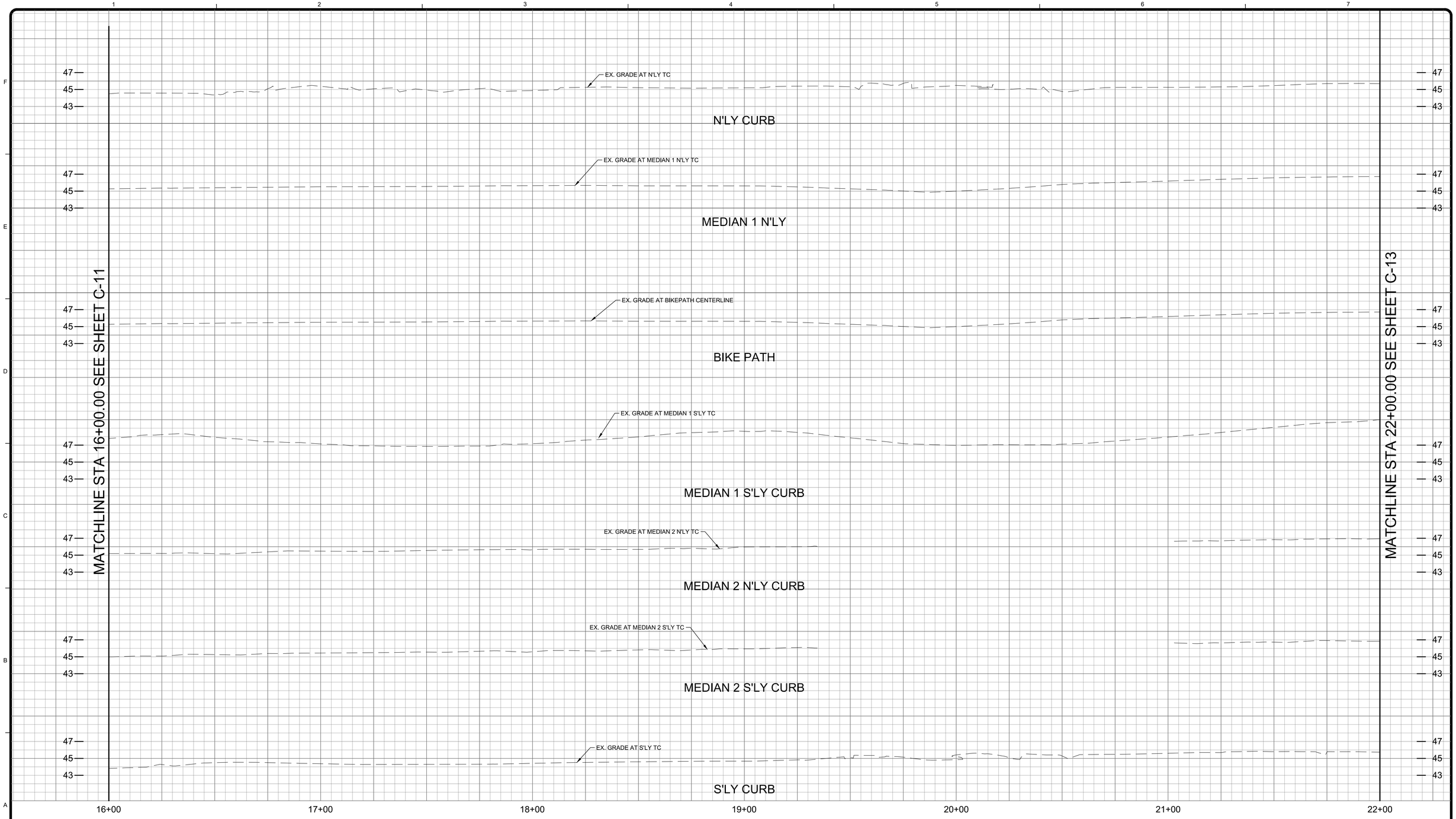
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-11
SHEET 13 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:22:08 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-11-PROFILE VIEW 10+00 TO 16+00.DWG - VU, KEVIN



CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 5'

CULVER BLVD PROFILE
FROM 16+00 TO 22+00

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

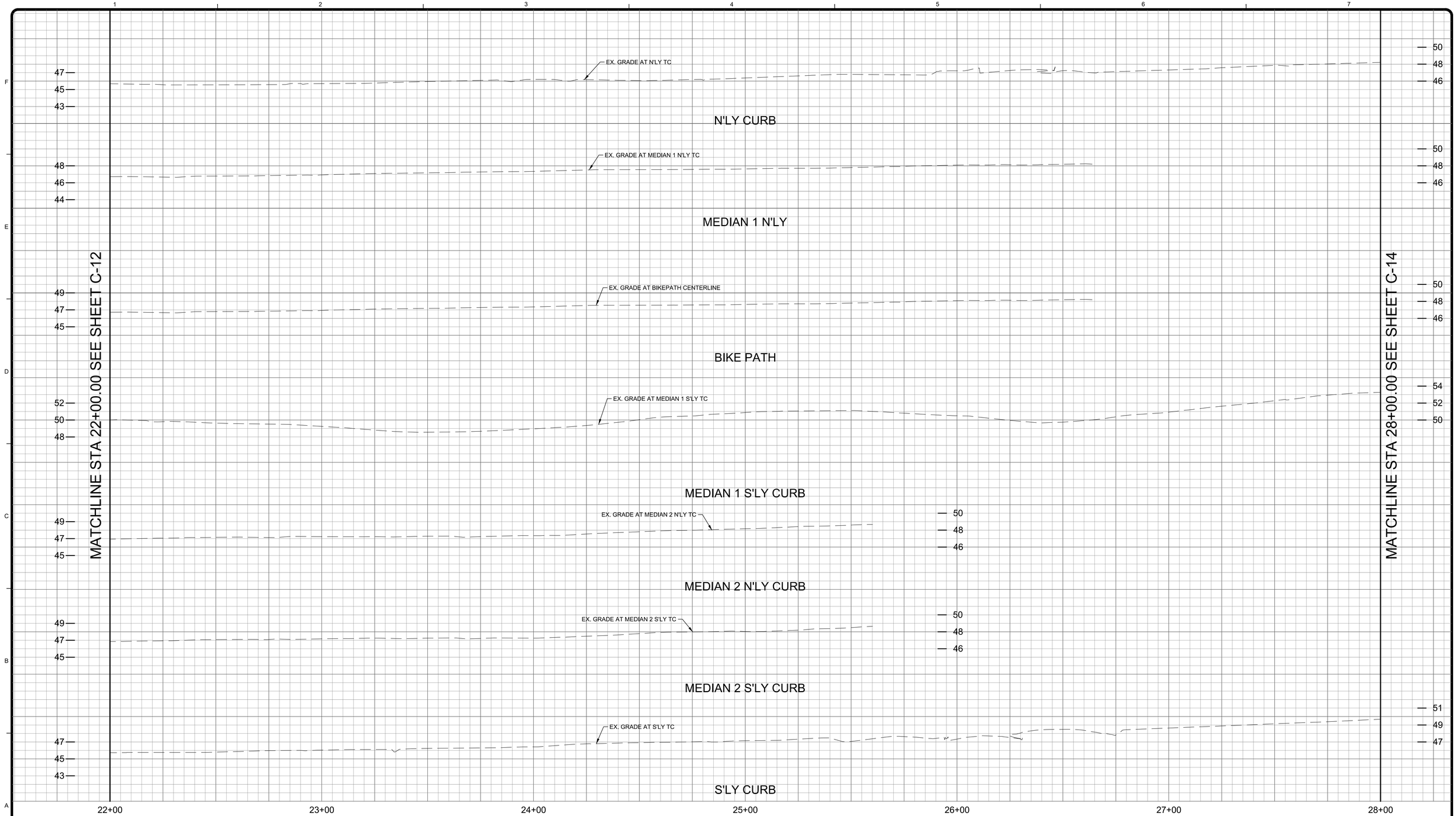
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
C-12
SHEET 14 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:22:52 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-12-PROFILE VIEW 16+00 TO 22+00.DWG - VU, KEVIN



CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 5'

CULVER BLVD PROFILE
FROM 22+00 TO 28+00

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

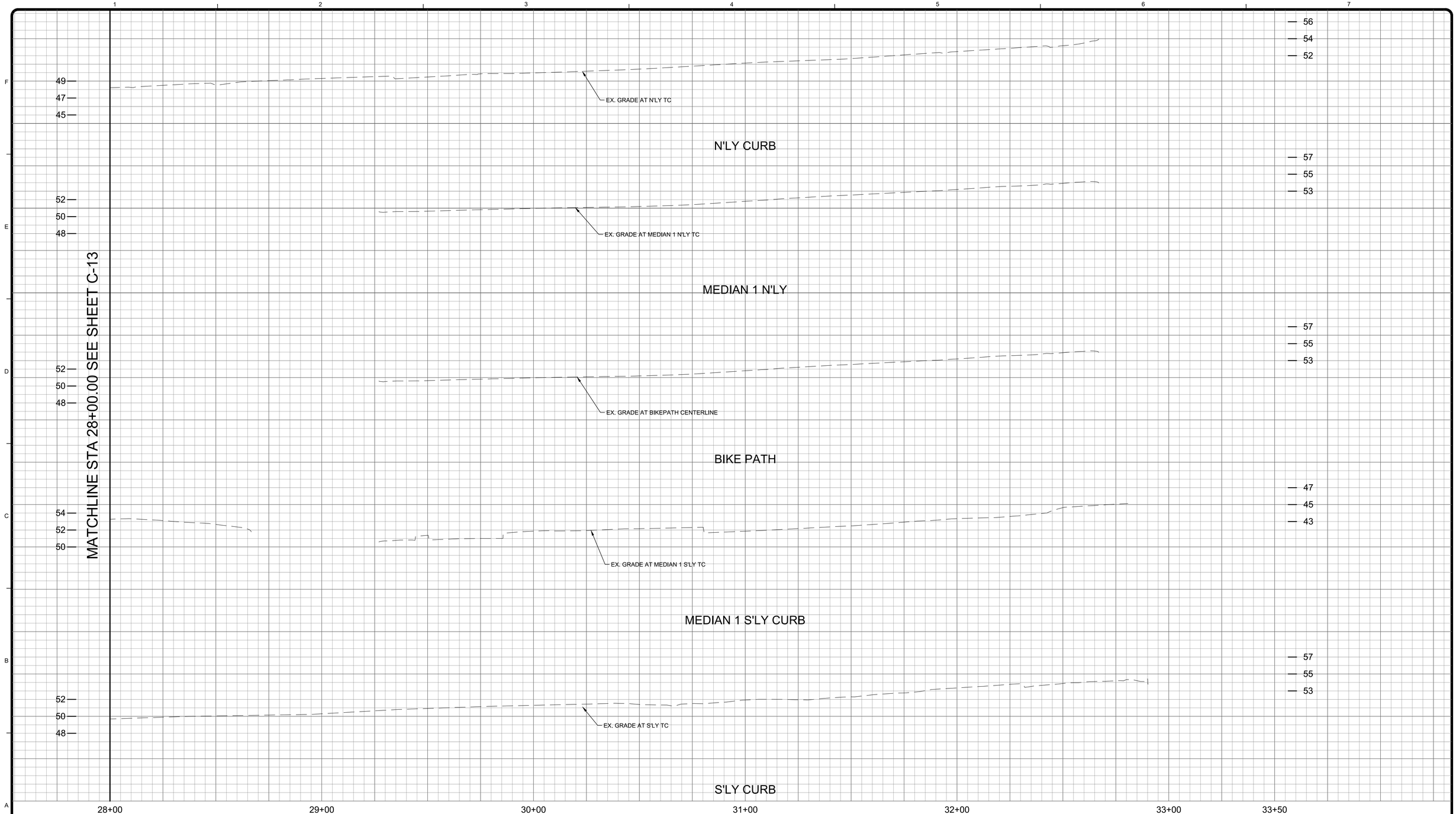
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-13
SHEET 15 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:23:46 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-13-PROFILE VIEW 22+00 TO 28+00.DWG - VU, KEVIN



PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 5'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE
PROJECT NUMBER # 200-154197-18001
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CULVER BLVD PROFILE
FROM STA 28+00 TO 33+25

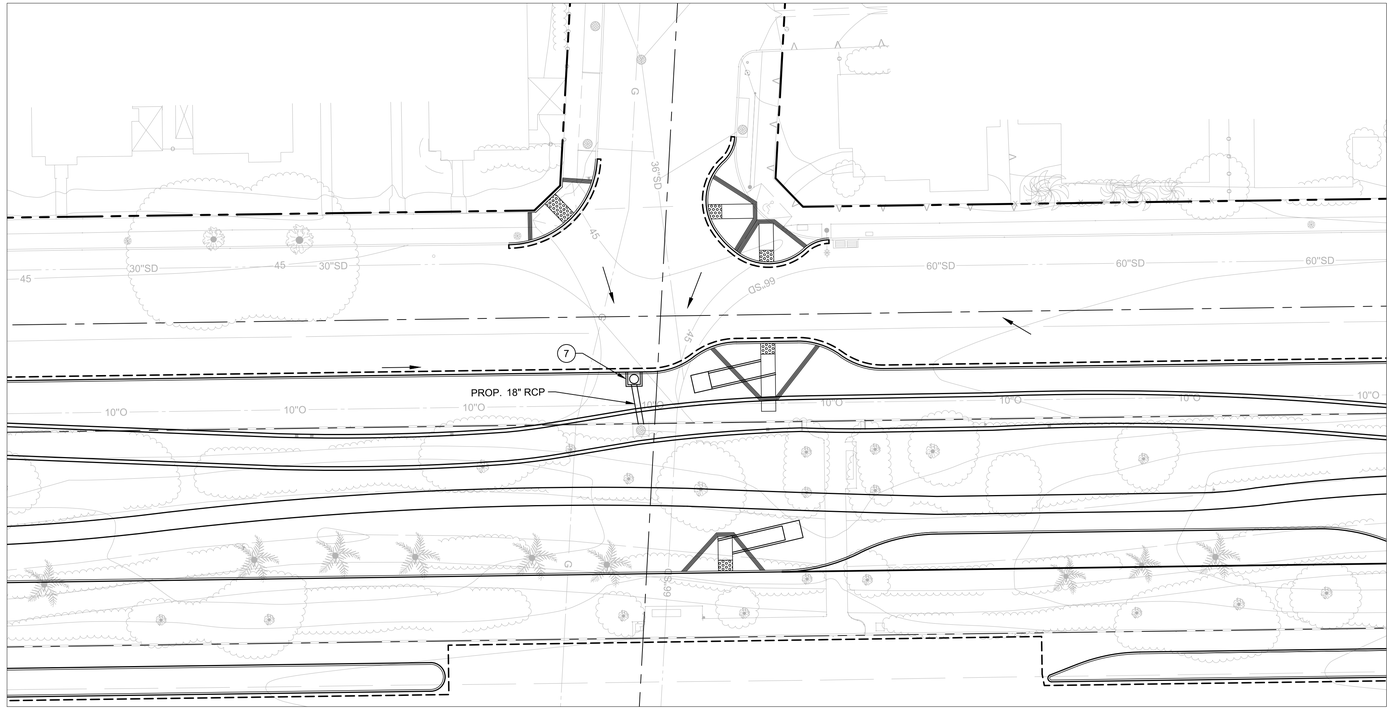
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
C-14
SHEET 16 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:24:29 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-14-PROFILE VIEW 28+00 TO 33+25.DWG - VU, KEVIN



CONSTRUCTION NOTES

7 CONSTRUCT CURB OPENING CATCH BASIN PER SPPWC STD. PLAN 300-3, W=3.5'

0 10' 20' 40'
SCALE: 1" = 20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

STORM DRAIN RELOCATION PLAN

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

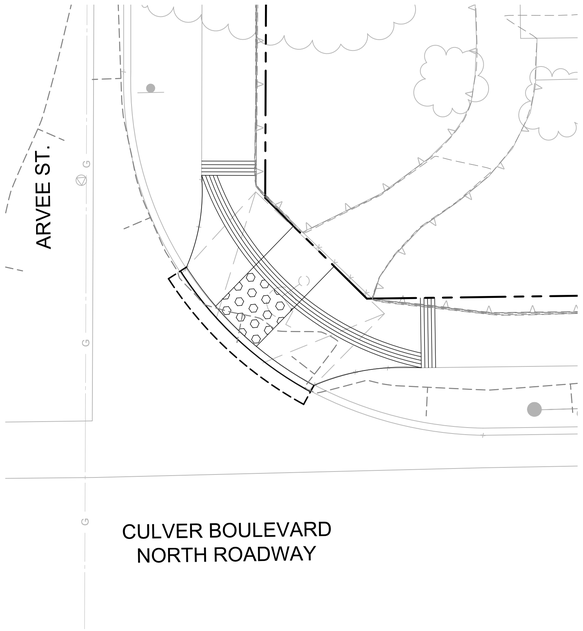
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
C-15
SHEET 17 OF SHEETS

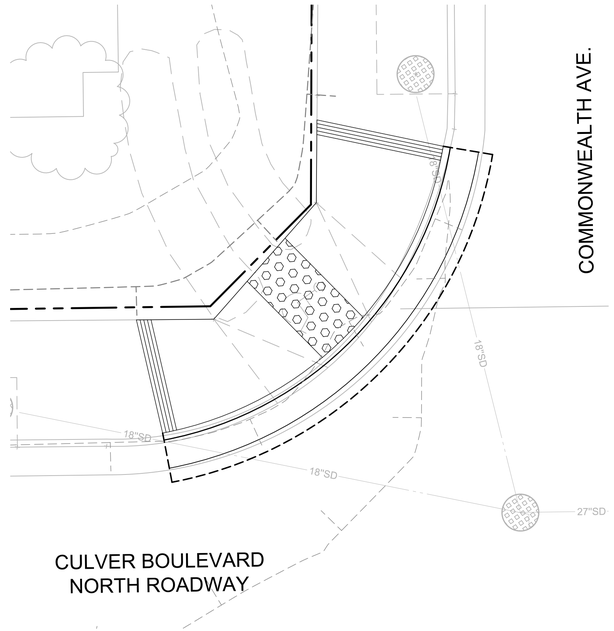
Bar Measures 1 inch

Copyright: Tetra Tech

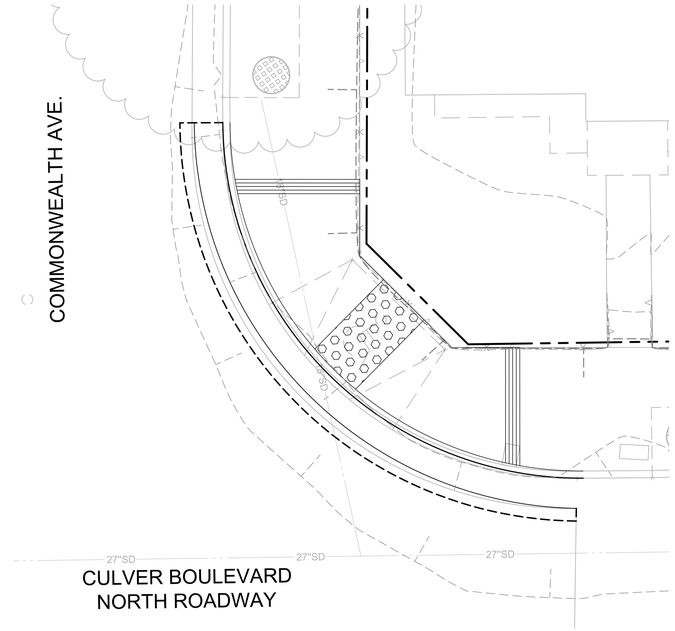
7/10/2018 8:24:50 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-15-STORM DRAIN PLAN.DWG - VU, KEVIN



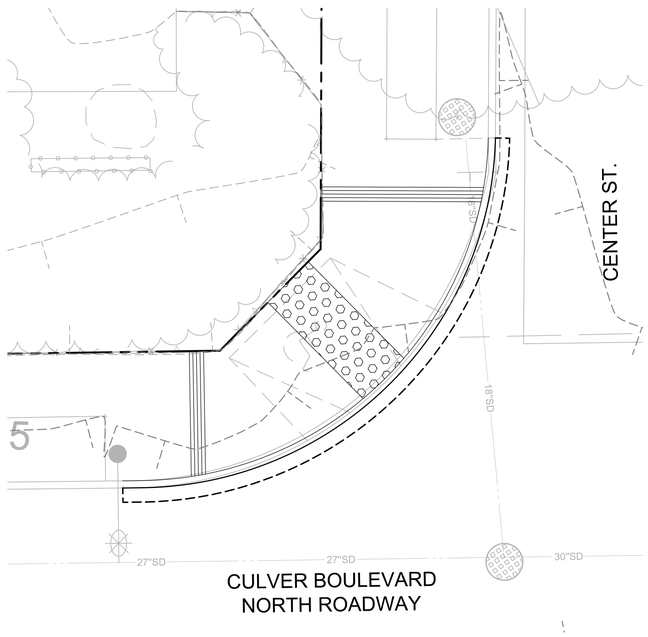
A CURB RAMP DETAIL
SCALE: 1"=5'



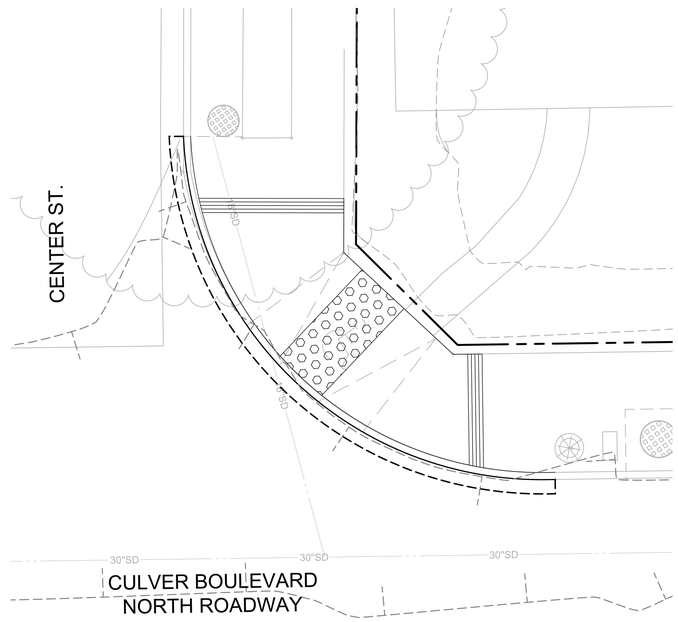
B CURB RAMP DETAIL
SCALE: 1"=5'



C CURB RAMP DETAIL
SCALE: 1"=5'



D CURB RAMP DETAIL
SCALE: 1"=5'



E CURB RAMP DETAIL
SCALE: 1"=5'

LINE TABLE	
LENGTH	DIRECTION

CURVE TABLE			
RADIUS	DELTA	LENGTH	TANGENT

0 2.5' 5' 10'
SCALE: 1"=5'

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE
PROJECT NUMBER # 200-154197-18001
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

CONSTRUCTION DETAILS

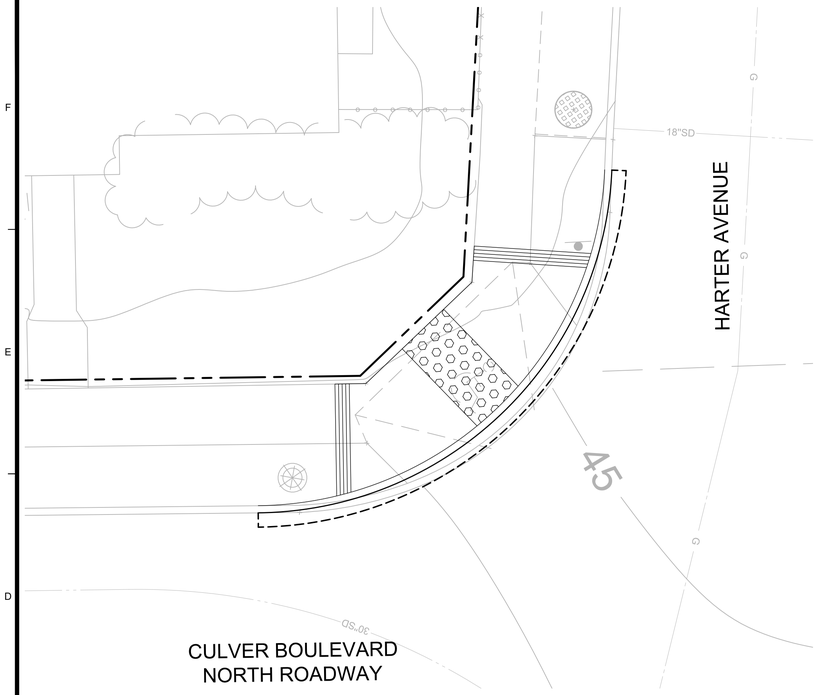
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
C-16
SHEET 18 OF SHEETS

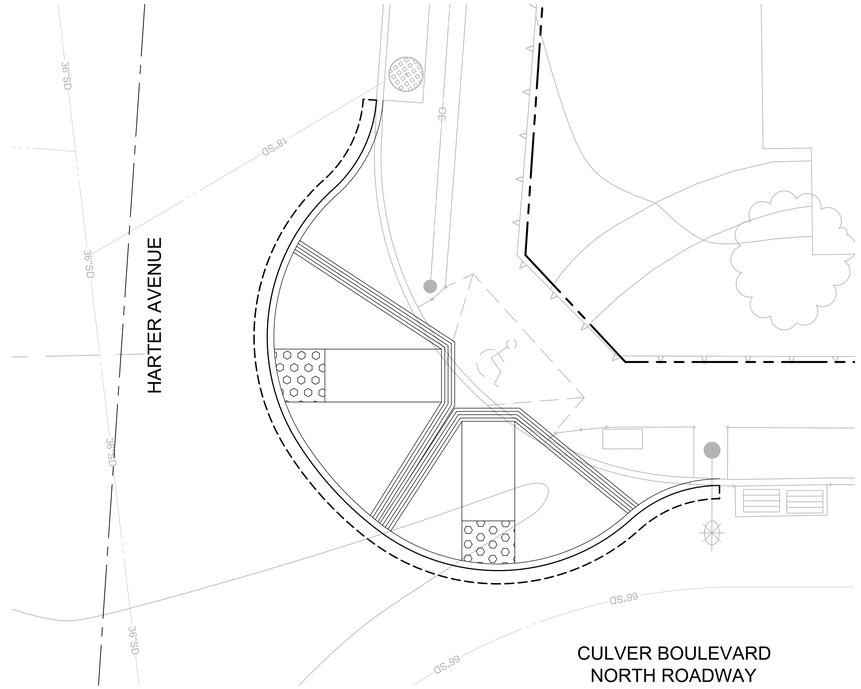
Bar Measures 1 inch

Copyright: Tetra Tech

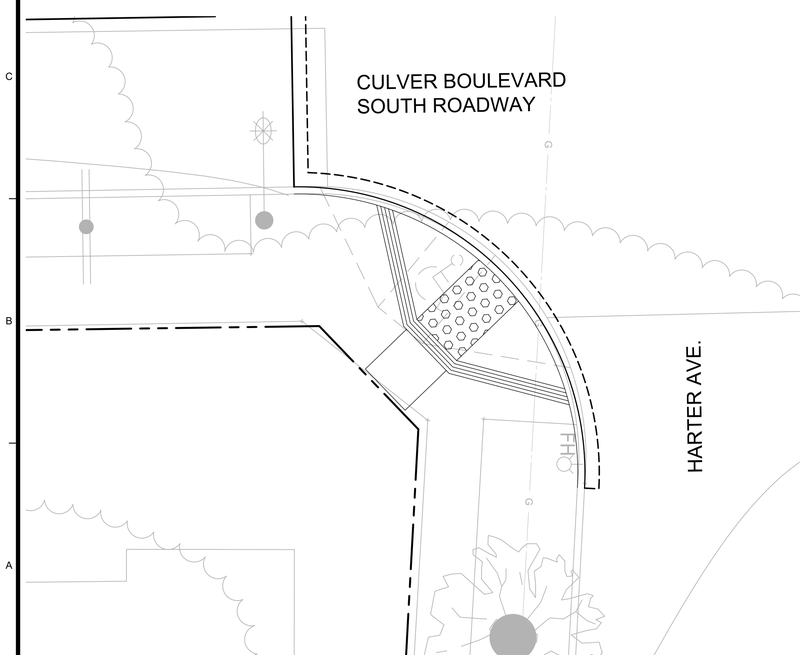
7/10/2018 8:25:27 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-16-CONSTRUCTION DETAILS.DWG - VU, KEVIN



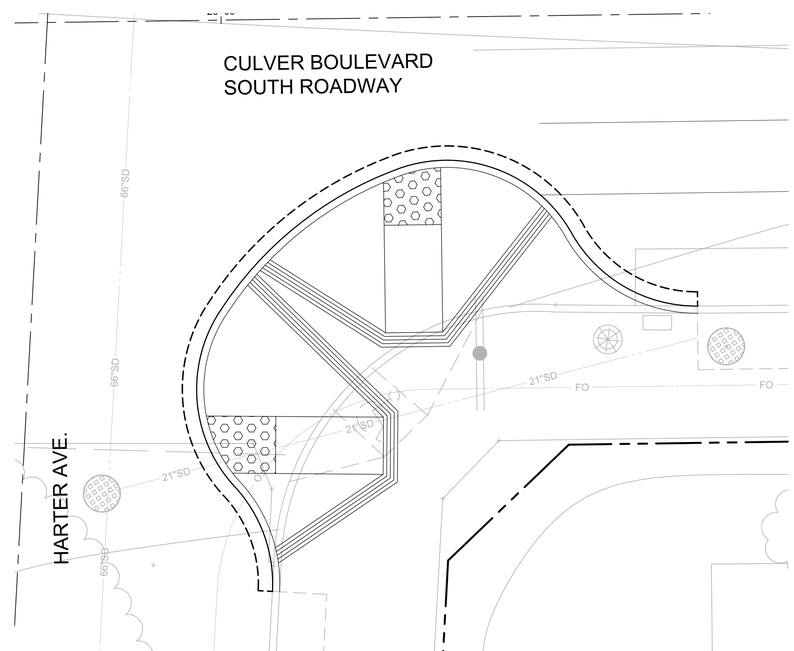
F CURB RAMP DETAIL
SCALE: 1"=5'



G CURB RAMP DETAIL
SCALE: 1"=5'



H CURB RAMP DETAIL
SCALE: 1"=5'



I CURB RAMP DETAIL
SCALE: 1"=5'

0 2.5' 5' 10'
SCALE: 1"=5'

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE
PROJECT NUMBER # 200-154197-18001
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

CIVIL DETAILS

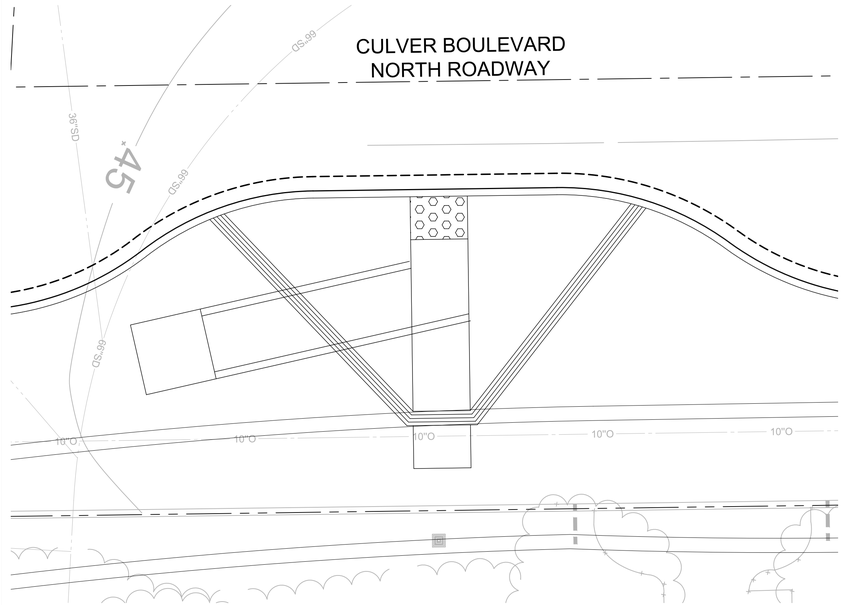
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-17
SHEET 19 OF SHEETS

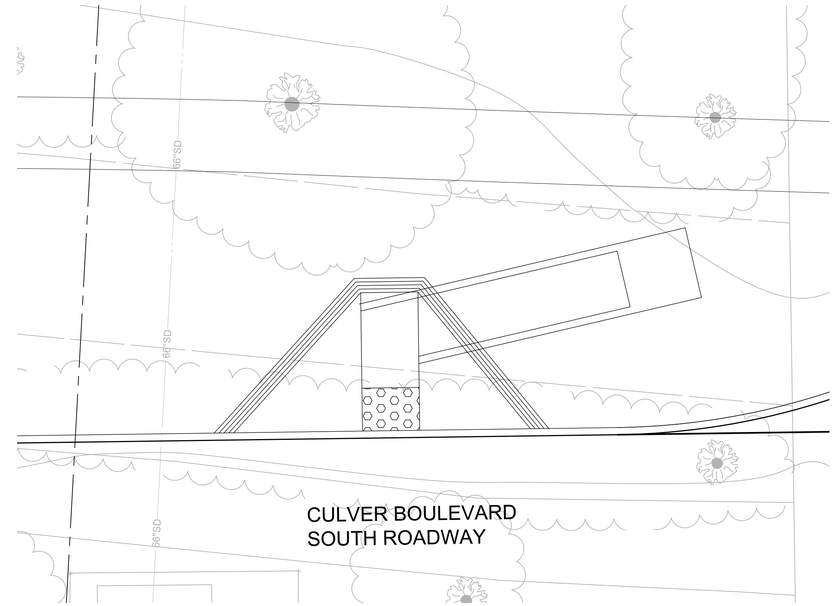
Bar Measures 1 inch

Copyright: Tetra Tech

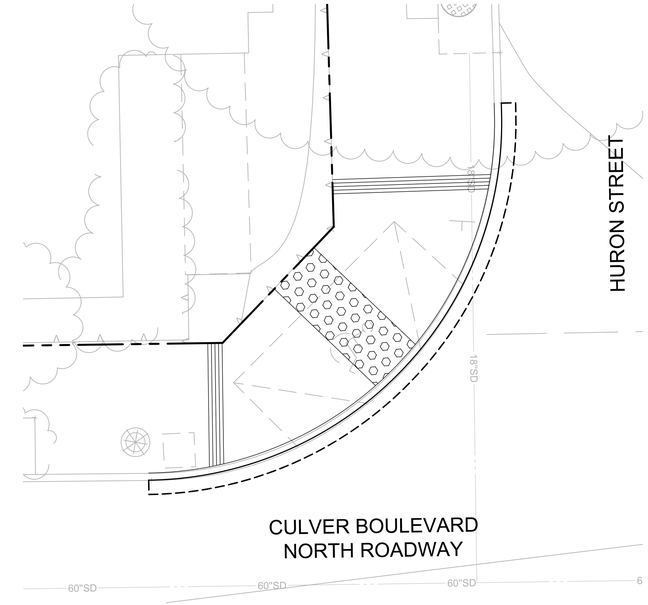
7/10/2018 8:25:52 AM - O:\PROJECTS\IRVINE\1541197\200-154197-18001\CAD\SHEETFILES\C-17-CONSTRUCTION DETAILS.DWG - VU, KEVIN



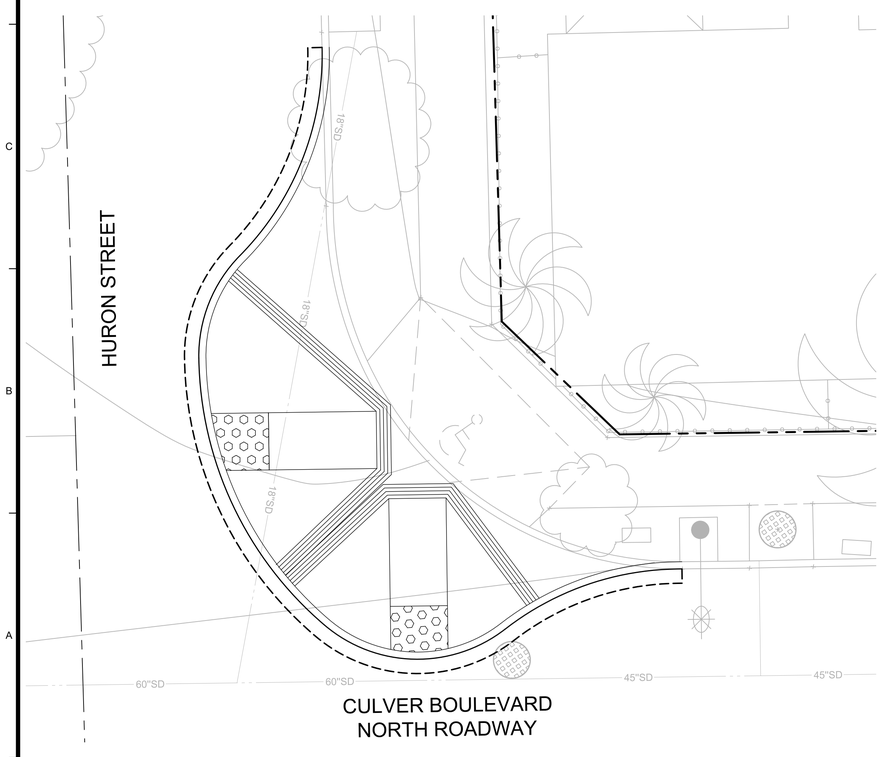
J CURB RAMP DETAIL
SCALE: 1"=5'



K CURB RAMP DETAIL
SCALE: 1"=5'

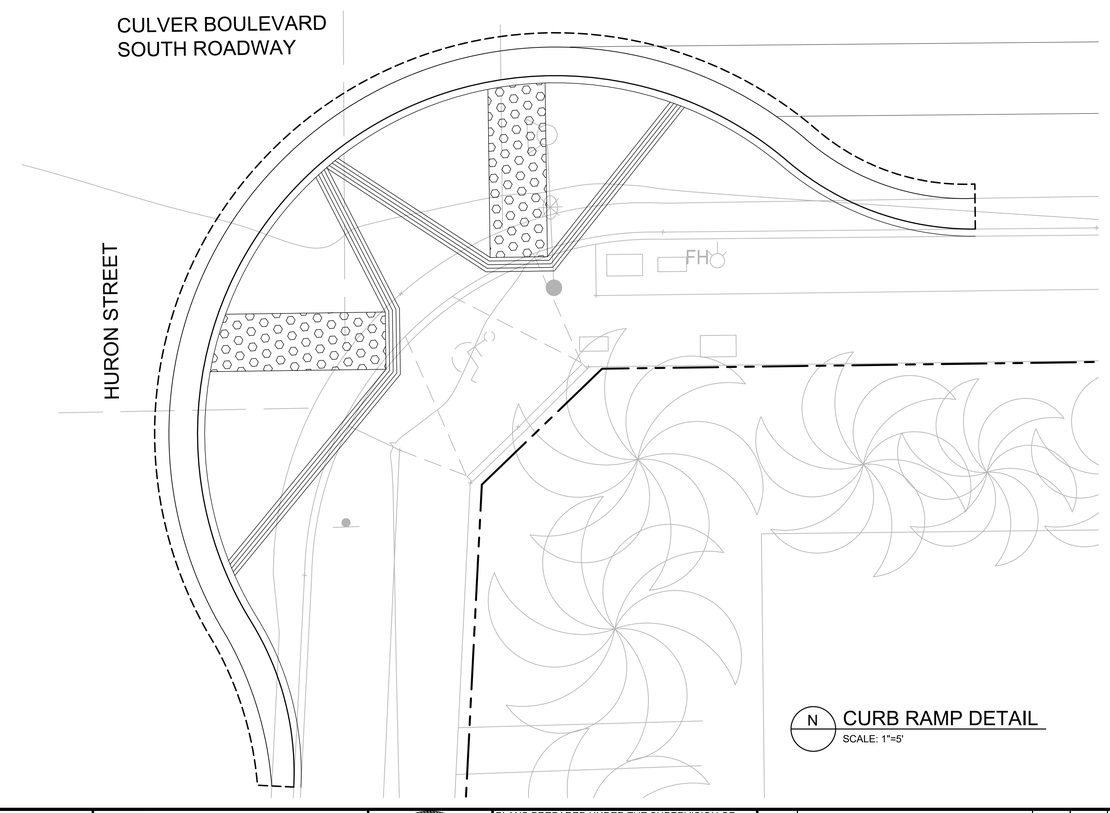


L CURB RAMP DETAIL
SCALE: 1"=5'



CULVER BOULEVARD
NORTH ROADWAY

M CURB RAMP DETAIL
SCALE: 1"=5'



N CURB RAMP DETAIL
SCALE: 1"=5'

0 2.5' 5' 10'
SCALE: 1"=5'

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
PATRICK RICHARDSON
No. 46808
EXP. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE
PROJECT NUMBER # 200-154197-18001
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

CIVIL DETAILS

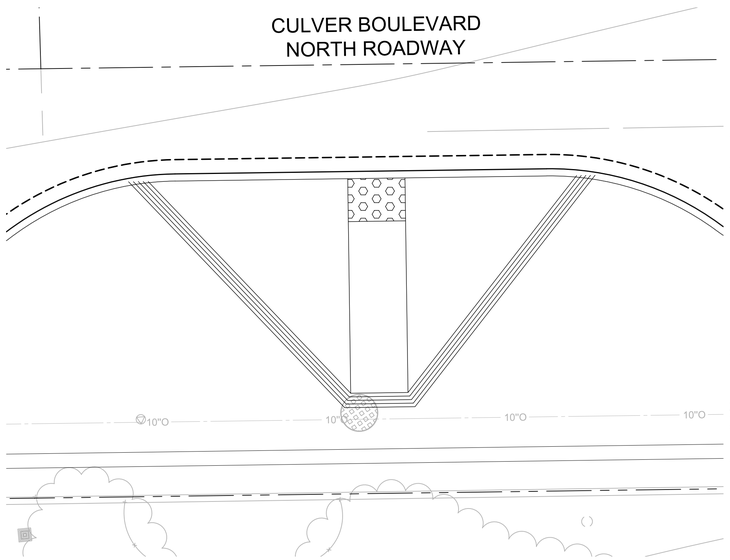
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-18
SHEET 20 OF SHEETS

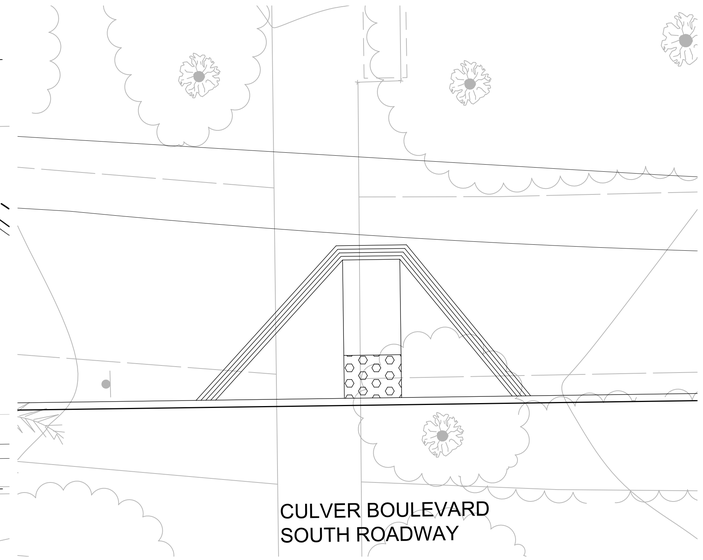
Bar Measures 1 inch

Copyright: Tetra Tech

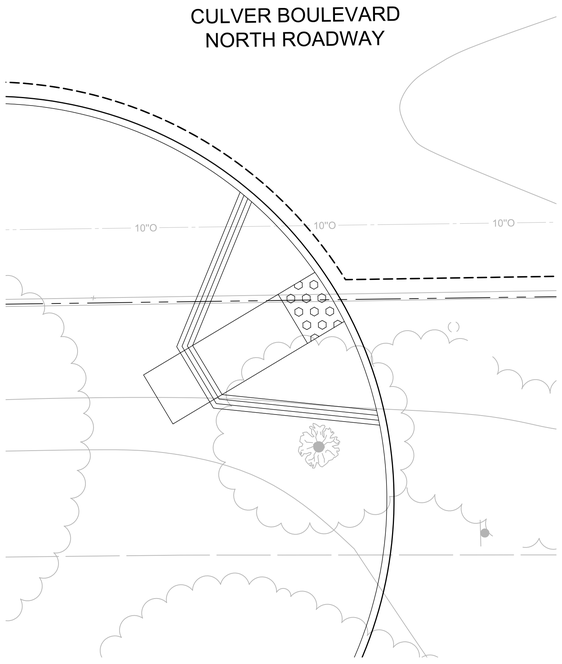
7/10/2018 8:26:21 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-18-CONSTRUCTION DETAILS.DWG - VU, KEVIN



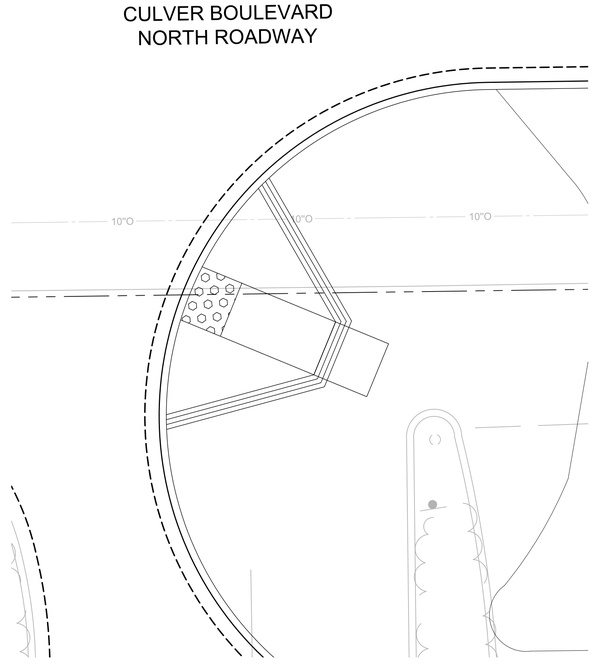
O CURB RAMP DETAIL
SCALE: 1"=5'



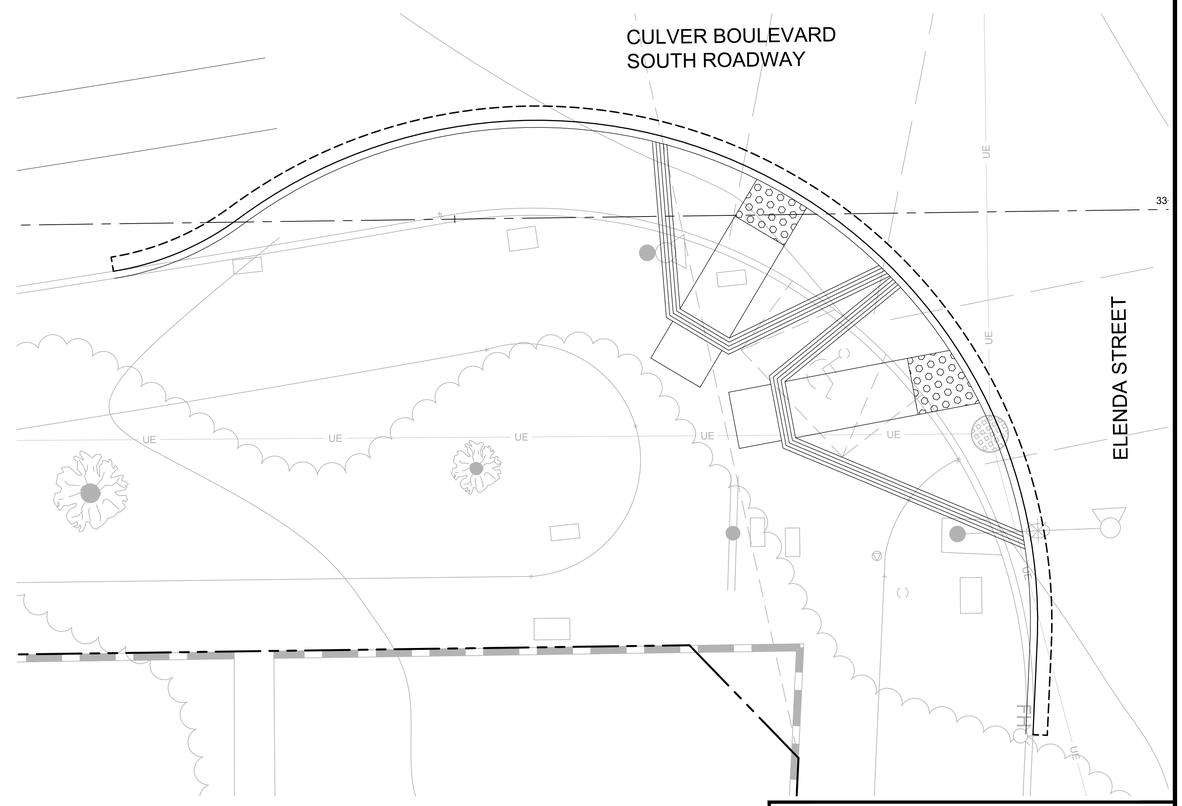
P CURB RAMP DETAIL
SCALE: 1"=5'



Q CURB RAMP DETAIL
SCALE: 1"=5'



R CURB RAMP DETAIL
SCALE: 1"=5'



S CURB RAMP DETAIL
SCALE: 1"=5'

0 2.5' 5' 40'
SCALE: 1"=5'

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE
PROJECT NUMBER # 200-154197-18001
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

CIVIL DETAILS

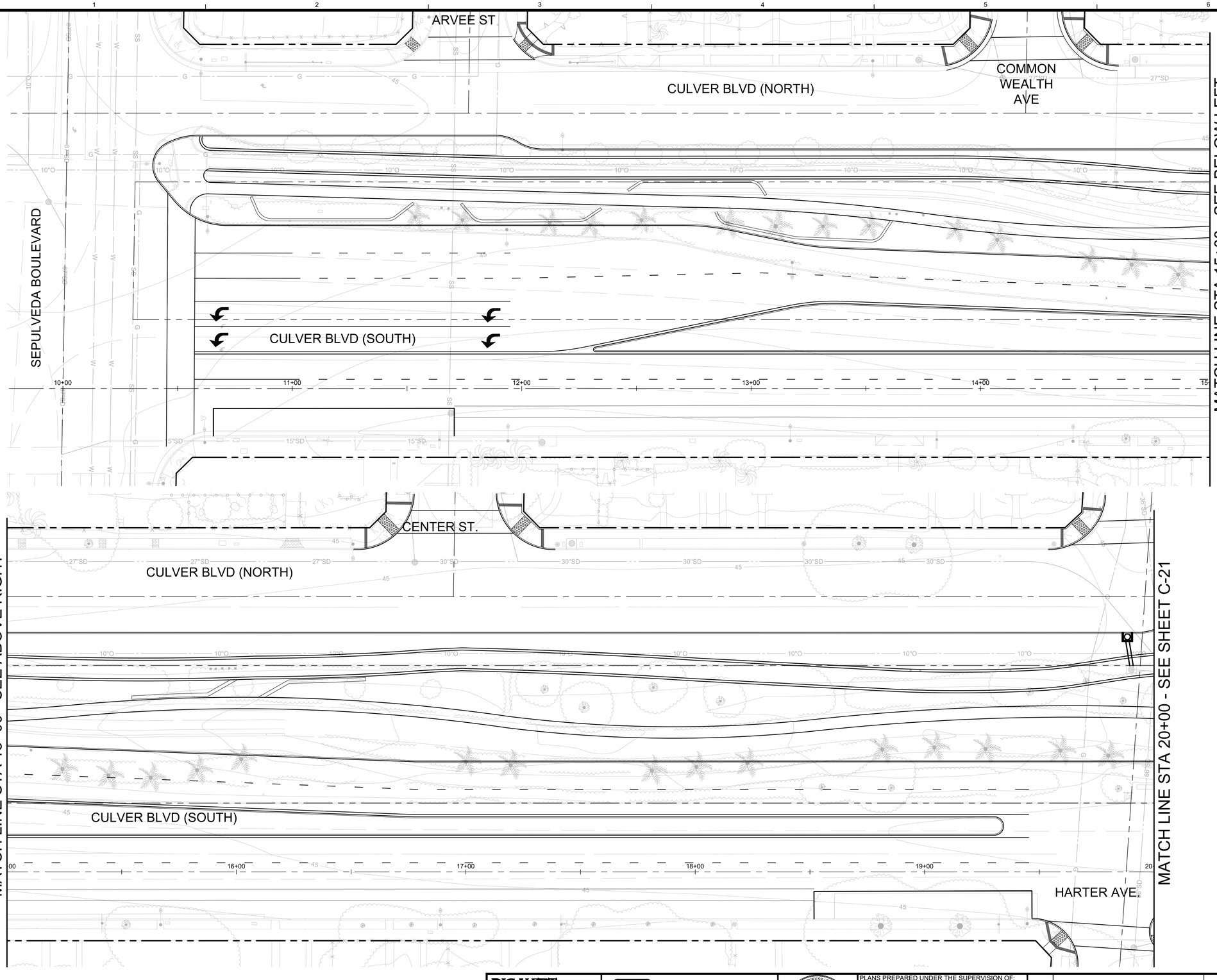
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
C-19
SHEET 21 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:26:49 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-19-CONSTRUCTION DETAILS.DWG - VU, KEVIN



CONSTRUCTION NOTES

1. RELOCATE TRAFFIC SIGN.

SCALE: 1"=20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

SIGNING AND STRIPING PLANS

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
WAYNE PATRICK RICHARDSON
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

APPROVED BY CHARLES D. HERBERTSON

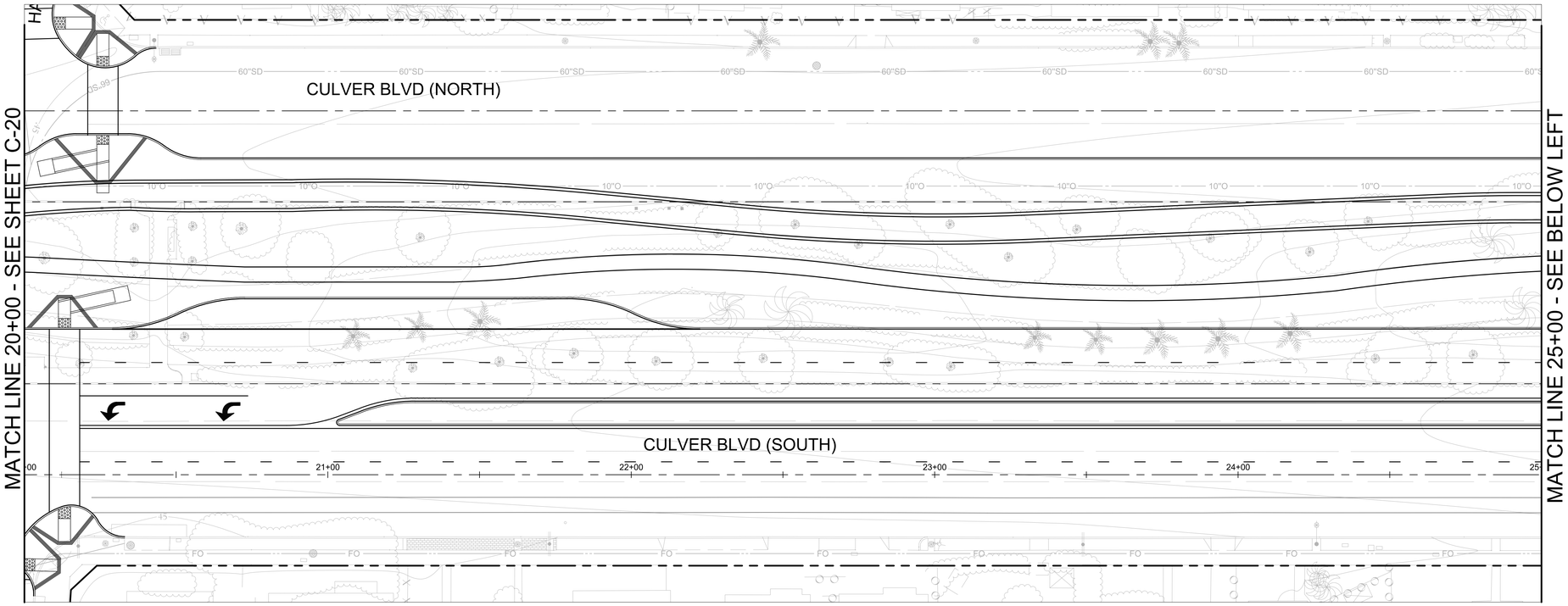
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

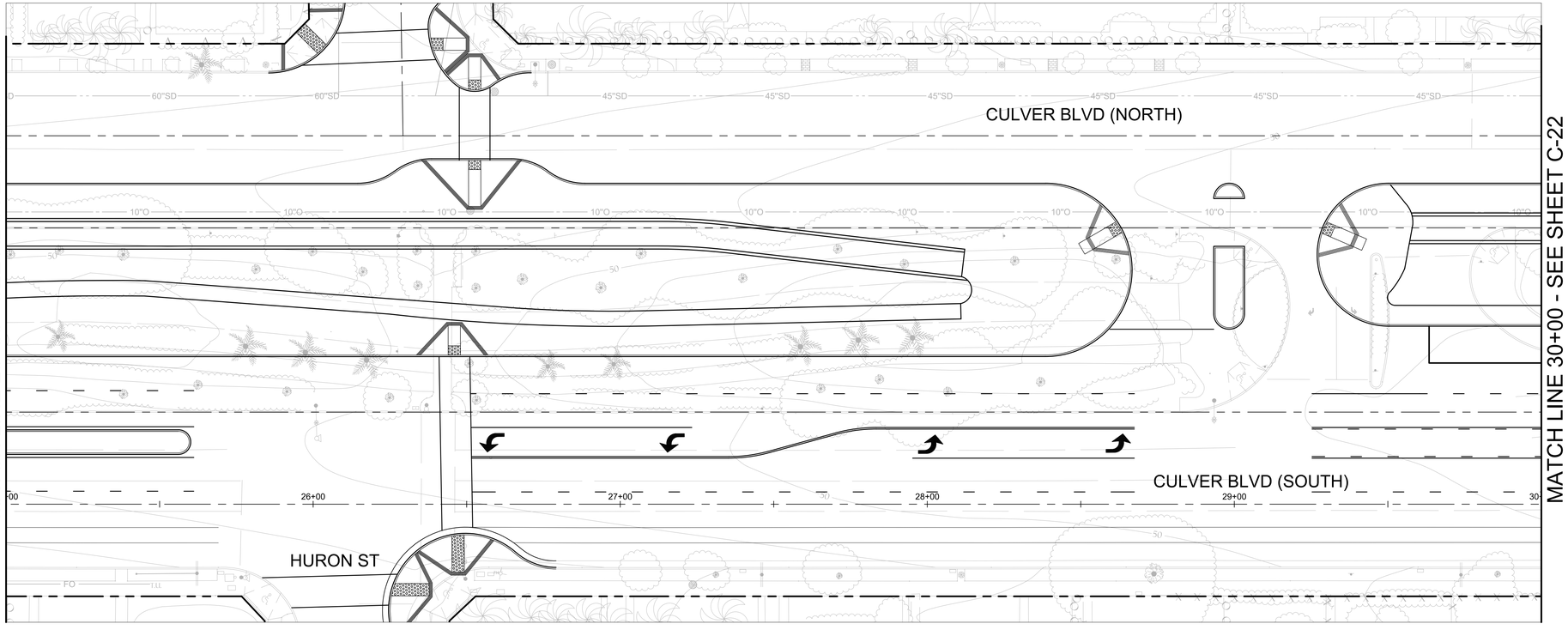
SHEET C-20
SHEET 22 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:27:09 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-20-SIGNING AND STRIPING PLANS.DWG - VU, KEVIN





CONSTRUCTION NOTES

1. RELOCATE TRAFFIC SIGN.

0 10' 20' 40'
SCALE: 1"=20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

SIGNING AND STRIPING PLANS

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
PATRICK RITCHIE
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-21
SHEET 23 OF SHEETS

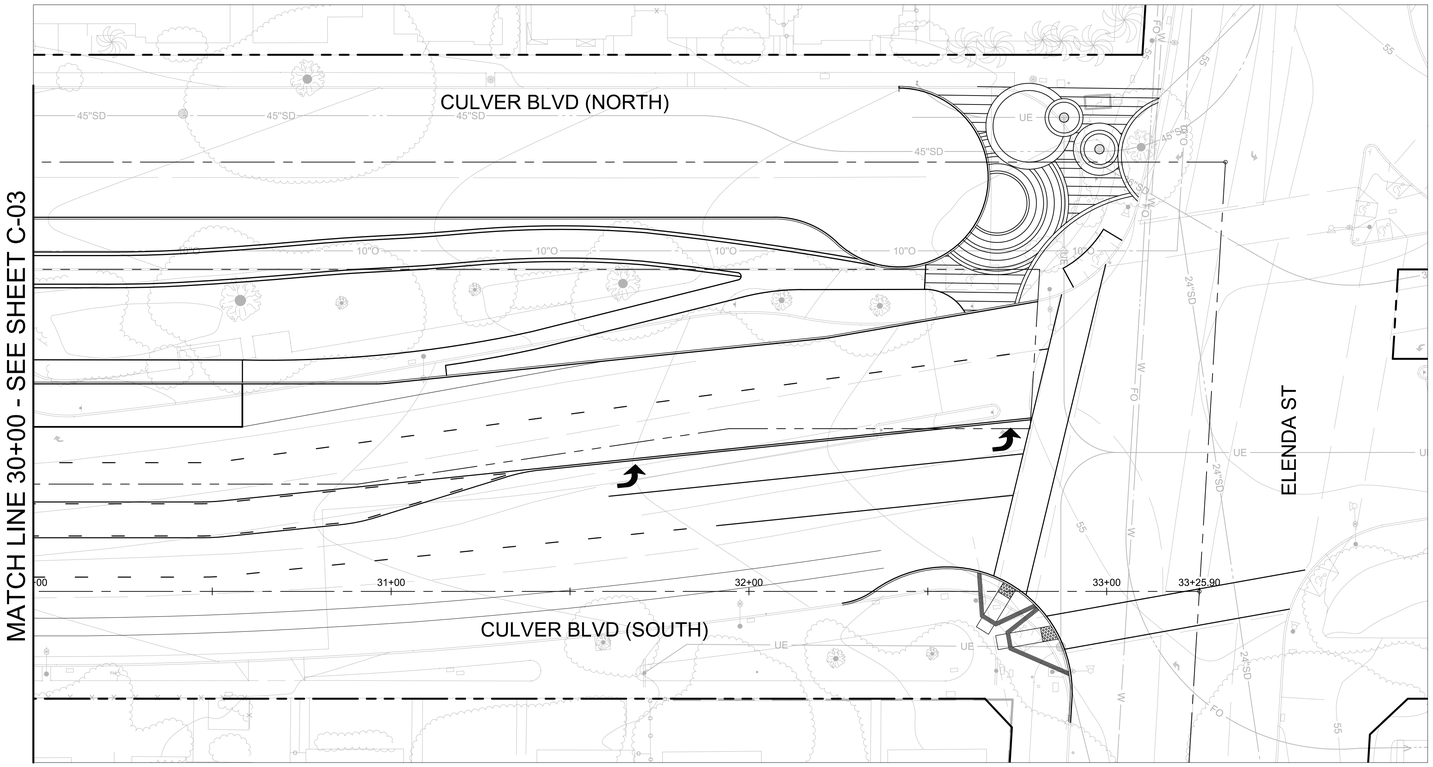
Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:27:29 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-21-SIGNING AND STRIPING PLANS.DWG - VU, KEVIN

CONSTRUCTION NOTES

1. RELOCATE TRAFFIC SIGN.



0 10' 20' 40'
SCALE: 1"=20'

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

REGISTERED PROFESSIONAL ENGINEER
PATRICK R. FRANCIS
No. 46808
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- 46808 EXP. 06/30/19 DATE

PROJECT NUMBER # 200-154197-18001

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

SIGNING AND STRIPING PLANS

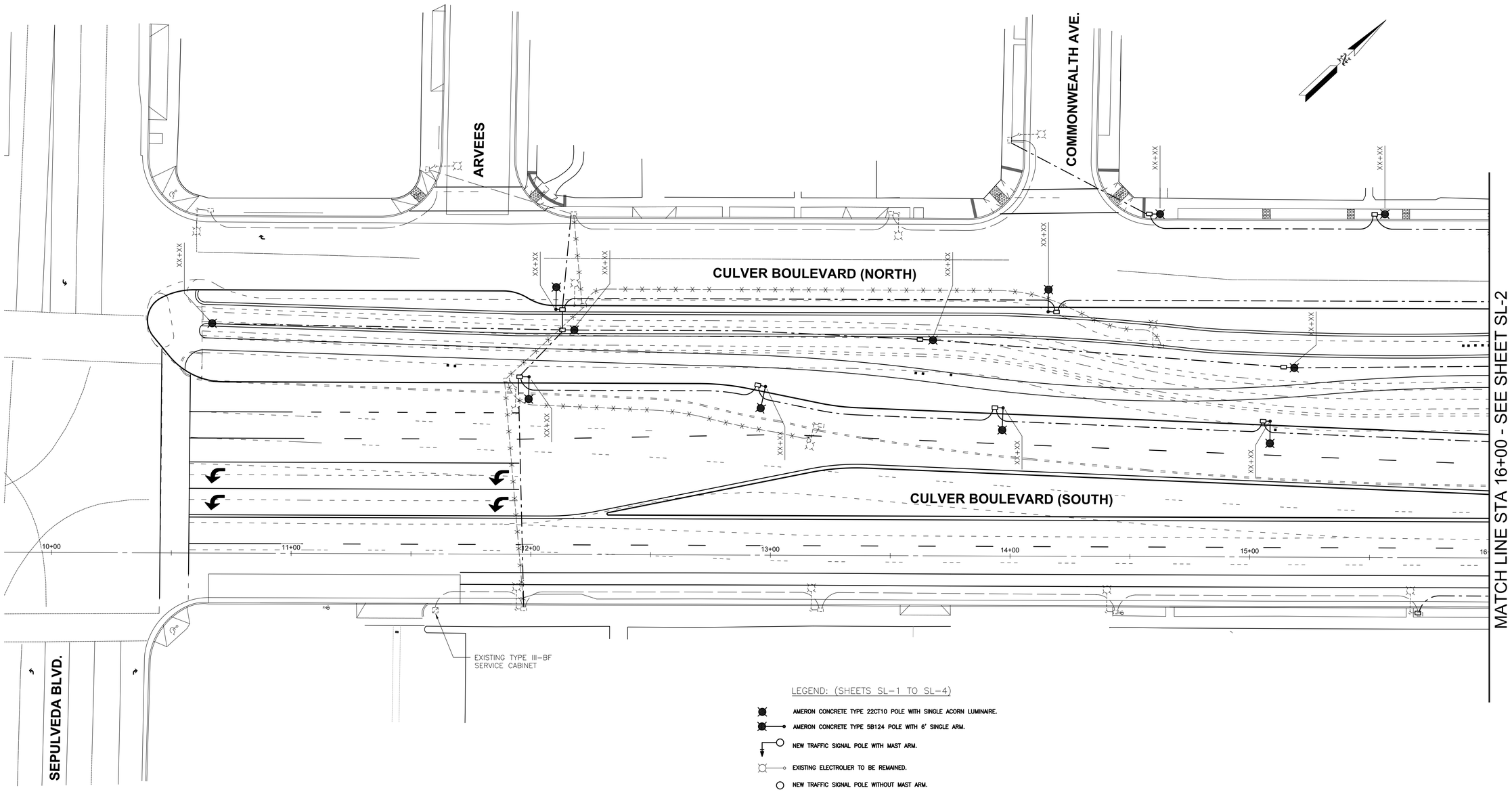
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET C-22
SHEET 24 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

7/10/2018 8:27:46 AM - O:\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\C-22-SIGNING AND STRIPING PLANS.DWG - VU, KEVIN



LEGEND: (SHEETS SL-1 TO SL-4)

- AMERON CONCRETE TYPE 22CT10 POLE WITH SINGLE ACORN LUMINAIRE.
- AMERON CONCRETE TYPE 5B124 POLE WITH 6' SINGLE ARM.
- NEW TRAFFIC SIGNAL POLE WITH MAST ARM.
- EXISTING ELECTROLIER TO BE REMAINED.
- NEW TRAFFIC SIGNAL POLE WITHOUT MAST ARM.
- ABANDON CONDUIT.
- EXISTING PEDESTRIAN ELECTROLIER TO BE REMOVED INCLUDING LUMINAIRE, LAMP, BALLAST, AND FOUNDATION.
- EXISTING ELECTROLIER TO BE REMOVED INCLUDING LUMINAIRE, LAMP, BALLAST, AND FOUNDATION.

PRELIMINARY
NOT FOR CONSTRUCTION

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

FPL and Associates, Inc.
www.fplandassociates.com
30 Corporate Park, Suit 401
Irvine, CA 92606
949-252-1688

PLANS PREPARED UNDER THE SUPERVISION OF:
XXXXXXXXXXX- EXP. XX/XX/19 DATE
PROJECT NUMBER # 200-01297-18020
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

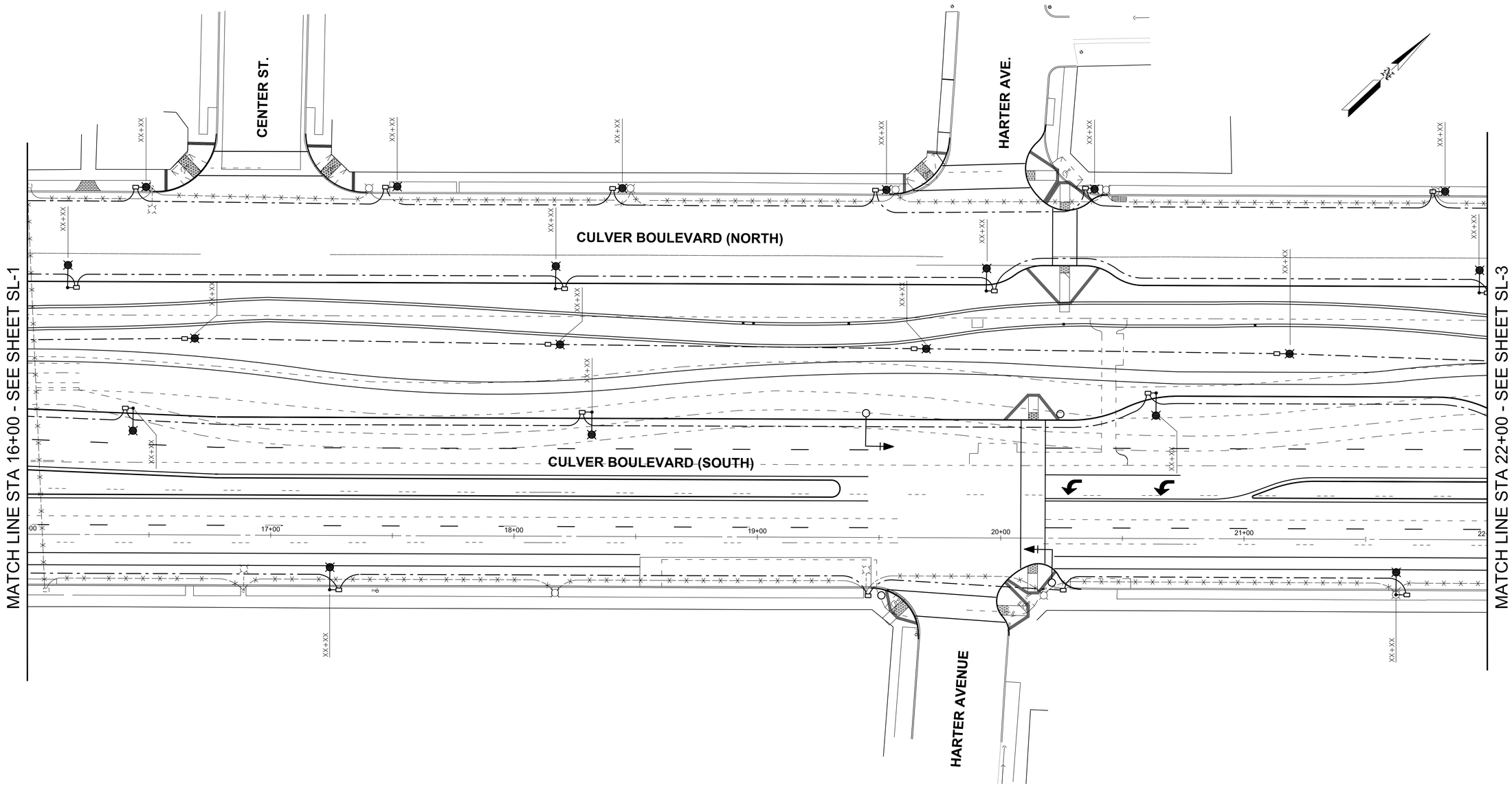
STREET LIGHTING PLANS

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
SHEET 1 OF X SHEETS

Bar Measures 1 inch

7/5/2018 4:00:48 PM - S:\JOBS\2030 - CULVER BLVD REALIGNMENT\DRAWINGS\SL - CULVER BLVD.DWG - HENRY TRINH



PRELIMINARY
NOT FOR CONSTRUCTION

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

FPL and Associates, Inc.
www.fplandassociates.com
30 Corporate Park, Suit 401
Irvine, CA 92606
949-252-1688

PLANS PREPARED UNDER THE SUPERVISION OF:
XXXXXXXXXXX- EXP. XX/XX/19 DATE
PROJECT NUMBER # 200-01297-18020
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

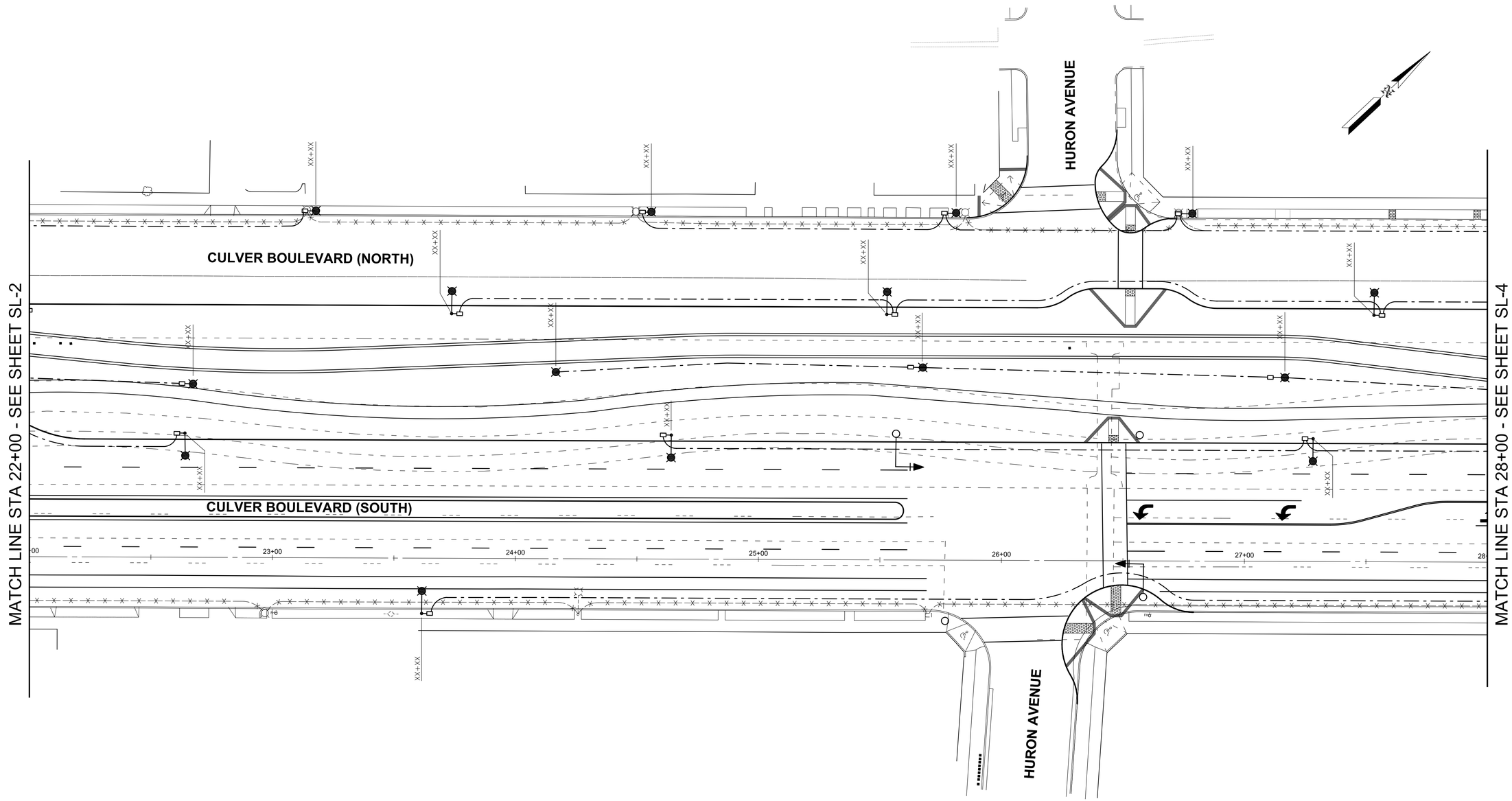
STREET LIGHTING PLANS

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
SHEET 2 OF X SHEETS

Bar Measures 1 inch

7/5/2018 4:02:24 PM - S:\JOBS\2030 - CULVER BLVD REALIGNMENT\DRAWINGS\SL - CULVER BLVD .DWG - HENRY TRINH



PRELIMINARY
NOT FOR CONSTRUCTION

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

FPL and Associates, Inc.
www.fplandassociates.com
30 Corporate Park, Suit 401
Irvine, CA 92606
949-252-1688

PLANS PREPARED UNDER THE SUPERVISION OF:
XXXXXXXXXXX- EXP. XX/XX/19 DATE

PROJECT NUMBER # 200-01297-18020

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

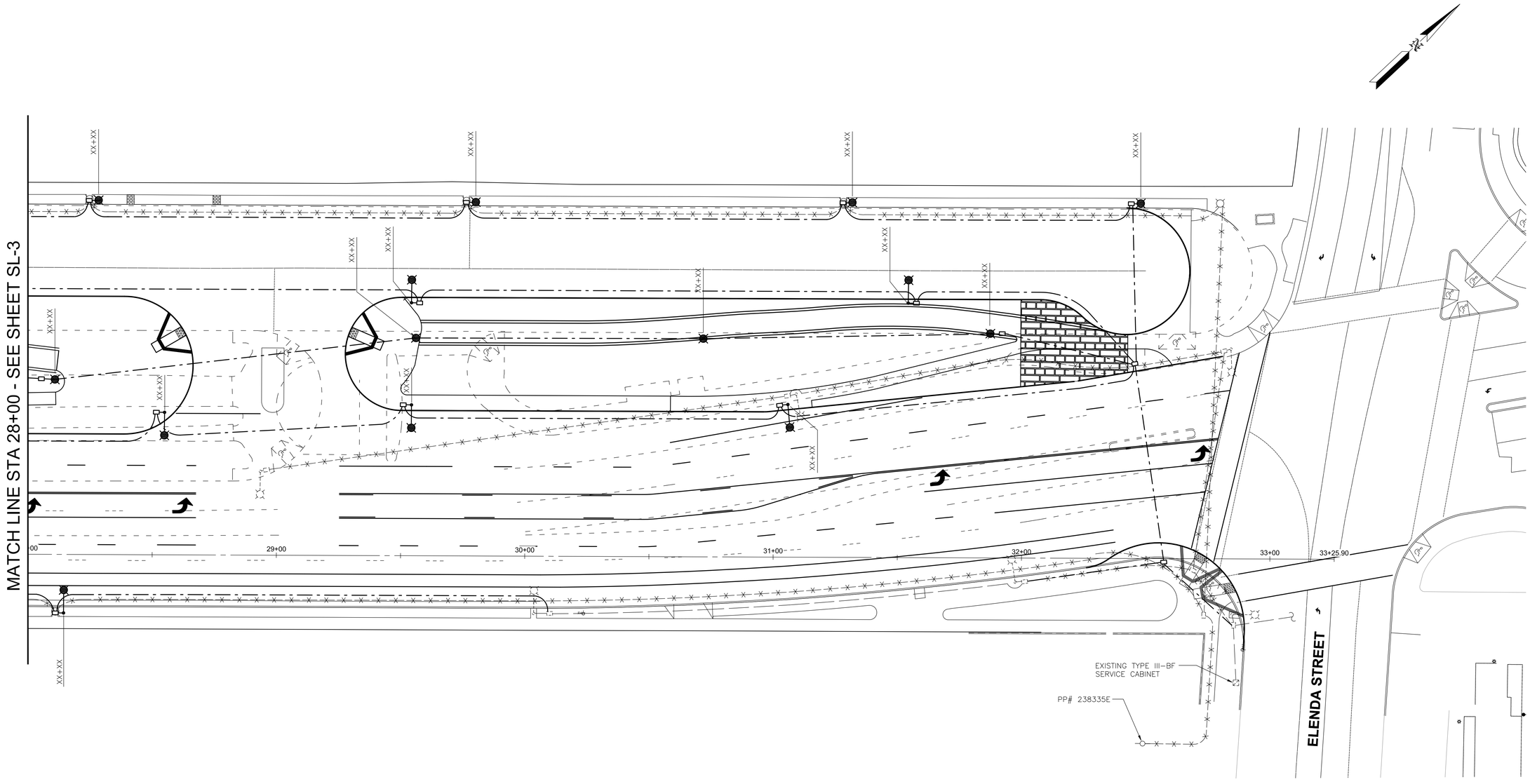
STREET LIGHTING PLANS

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
SHEET 3 OF X SHEETS

Bar Measures 1 inch

7/5/2018 4:02:56 PM - S:\JOBS\2030 - CULVER BLVD REALIGNMENT\DRAWINGS\SL - CULVER BLVD .DWG - HENRY TRINH



PRELIMINARY
NOT FOR CONSTRUCTION

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

FPL and Associates, Inc.
www.fplandassociates.com
30 Corporate Park, Suit 401
Irvine, CA 92606
949-252-1688

PLANS PREPARED UNDER THE SUPERVISION OF:

XXXXXXXXXXX- EXP. XX/XX/19 DATE

PROJECT NUMBER # 200-01297-18020

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

STREET LIGHTING PLANS

APPROVED BY CHARLES D. HERBERTSON

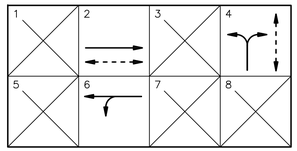
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET

SHEET 4 OF X SHEETS

Bar Measures 1 inch

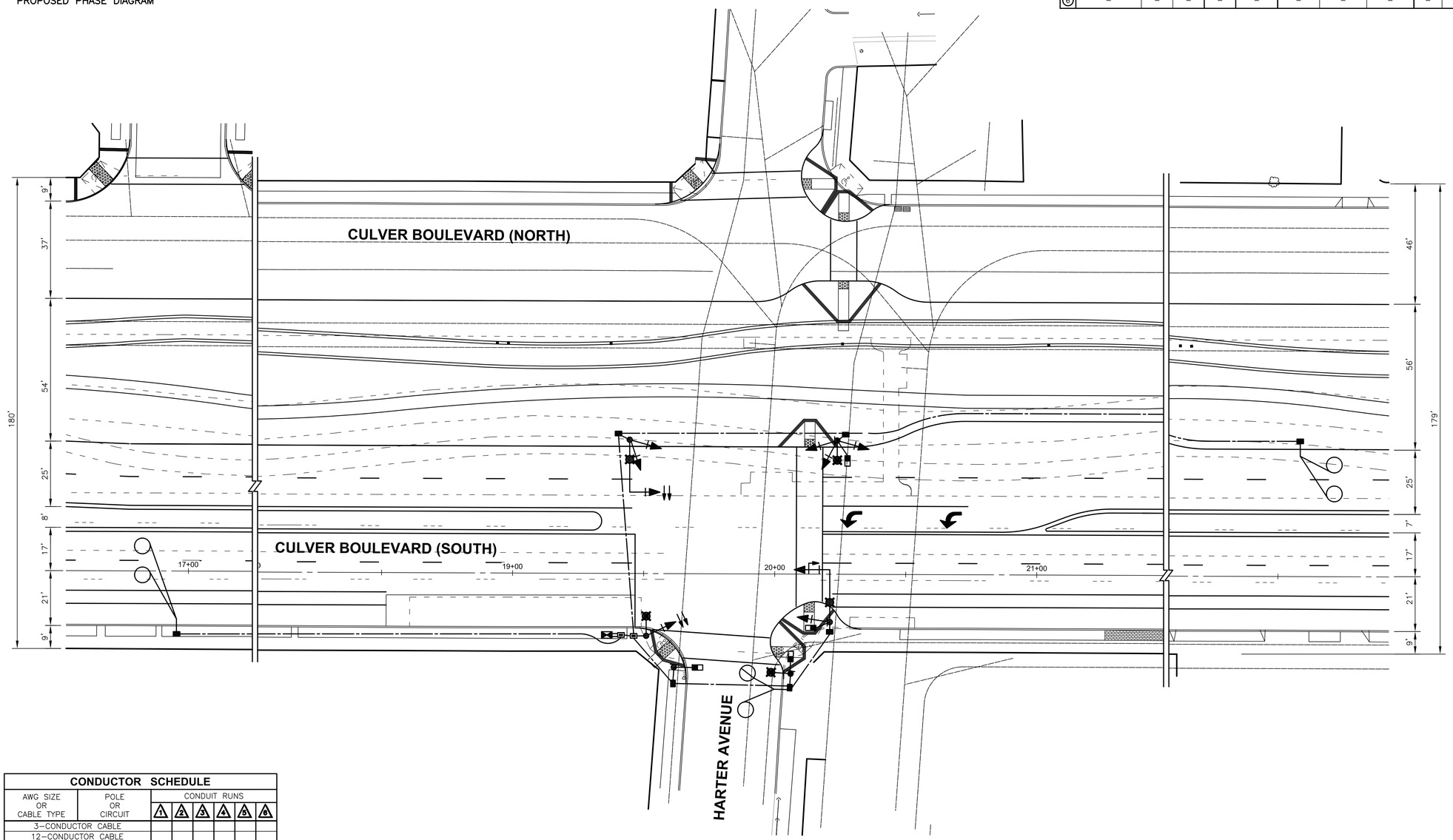
7/5/2018 4:03:18 PM - S:\JOBS\2030 - CULVER BLVD REALIGNMENT\DRAWINGS\SL - CULVER BLVD .DWG - HENRY TRINH



PROPOSED PHASE DIAGRAM

POLE SCHEDULE

	POLE DATA			LUMINAIRE		SIGNAL MOUNTING			PPB		POLE LOCATION			REMARKS
No.	TYPE	HGT.	SIG M.A.	LUM M.A.	HPS	M.A.	VEH.	PED.	PHASE	ARROW				
1	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2	–	–	–	–	–	–	–	–	–	–	–	–	–	–
3	–	–	–	–	–	–	–	–	–	–	–	–	–	–
4	–	–	–	–	–	–	–	–	–	–	–	–	–	–
5	–	–	–	–	–	–	–	–	–	–	–	–	–	–
6	–	–	–	–	–	–	–	–	–	–	–	–	–	–



CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	CONDUIT RUNS 1	2	3	4	5	6
3–CONDUCTOR CABLE							
12–CONDUCTOR CABLE							
#10	LUMINAIRE						
	TOTAL #10						
#6	SIGNAL SERVICE						
	TOTAL #6						
INTERCONNECT 25P22							
CONDUIT SIZE							

PRELIMINARY
NOT FOR CONSTRUCTION

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

FPL and Associates, Inc.
www.fplandassociates.com
30 Corporate Park, Suit 401
Irvine, CA 92606
949-252-1688

PLANS PREPARED UNDER THE SUPERVISION OF:
XXXXXXXXXXXX- EXP. XX/XX/19 DATE
PROJECT NUMBER # 200-01297-18020
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

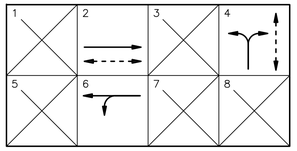
TRAFFIC SIGNAL PLAN
CULVER BOULEVARD
HARTER AVENUE

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
SHEET OF SHEETS

Bar Measures 1 inch

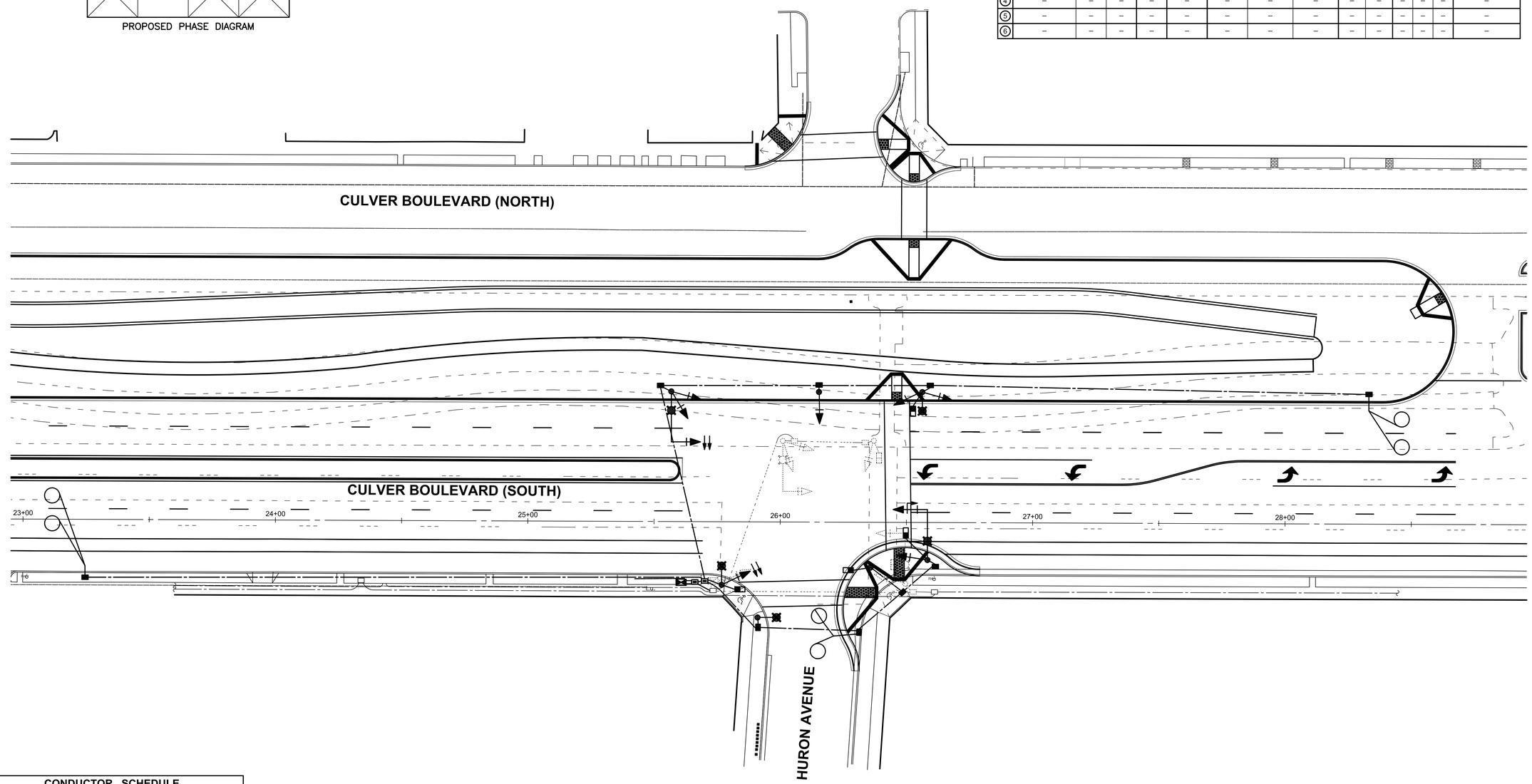
7/5/2018 2:47:29 PM - S:\JOBS\2030 - CULVER BLVD REALIGNMENT\DRAWINGS\TS - CULVER BLVD & HARTER AVE.DWG - HENRY TRINH



PROPOSED PHASE DIAGRAM

POLE SCHEDULE

	POLE DATA			LUMINAIRE		SIGNAL MOUNTING			PPB		POLE LOCATION			REMARKS
No.	TYPE	HGT.	SIG M.A.	LUM M.A.	HPS	M.A.	VEH.	PED.	PHASE	ARROW				
1	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2	–	–	–	–	–	–	–	–	–	–	–	–	–	–
3	–	–	–	–	–	–	–	–	–	–	–	–	–	–
4	–	–	–	–	–	–	–	–	–	–	–	–	–	–
5	–	–	–	–	–	–	–	–	–	–	–	–	–	–
6	–	–	–	–	–	–	–	–	–	–	–	–	–	–



CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	CONDUIT RUNS 1	2	3	4	5	6
3–CONDUCTOR CABLE							
12–CONDUCTOR CABLE							
#10	LUMINAIRE						
	TOTAL #10						
#6	SIGNAL SERVICE						
	TOTAL #6						
INTERCONNECT 25P22							
CONDUIT SIZE							

PRELIMINARY
NOT FOR CONSTRUCTION

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

FPL and Associates, Inc.
www.fplandassociates.com
30 Corporate Park, Suit 401
Irvine, CA 92606
949-252-1688

PLANS PREPARED UNDER THE SUPERVISION OF:
XXXXXXXXXXX- EXP. XX/XX/19 DATE
PROJECT NUMBER # 200-01297-18020
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

TRAFFIC SIGNAL PLAN
CULVER BOULEVARD
HURON AVENUE

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
SHEET OF SHEETS

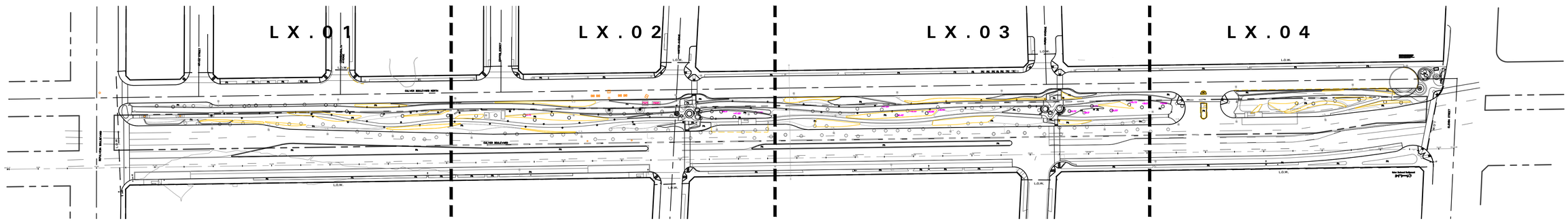
Bar Measures 1 inch

7/5/2018 4:04:34 PM - S:\JOBS\2030 - CULVER BLVD REALIGNMENT\DRAWINGS\TS - CULVER BLVD & HURON AVE.DWG - HENRY TRINH

CONCEPT DESIGN LANDSCAPE PACKAGE -35%

CULVER BOULEVARD REALIGNMENT LANDSCAPE

CULVER CITY, CALIFORNIA



0 50 100
1" = 100'

Sheet List Table	
Sheet Number	Sheet Title
L0.00	COVER SHEET KEY MAP INDEX
L0.01	PLANTING AREA & NOTES
L0.02	EXISTING TREE & PROTECTION PLAN
L0.03	EXISTING TREE & PROTECTION PLAN
L0.04	EXISTING TREE & PROTECTION PLAN
L0.05	EXISTING TREE & PROTECTION PLAN
L1.00	LAYOUT LEGEND
L1.01	LAYOUT PLAN
L1.02	LAYOUT PLAN
L1.03	LAYOUT PLAN
L1.04	LAYOUT PLAN
L1.05	LAYOUT ENLARGEMENT PLAN
L1.06	LAYOUT ENLARGEMENT PLAN
L1.07	LAYOUT ENLARGEMENT PLAN
L2.00	GRADING LEGEND
L2.01	GRADING AND DRAINAGE PLAN
L2.02	GRADING AND DRAINAGE PLAN
L2.03	GRADING AND DRAINAGE PLAN
L2.04	GRADING AND DRAINAGE PLAN
L3.00	PAVING LEGEND
L3.01	PAVING PLAN
L3.02	PAVING PLAN
L3.03	PAVING PLAN
L3.04	PAVING PLAN
L4.00	PLANTING LEGEND
L4.01	PLANTING PLAN
L4.02	PLANTING PLAN
L4.03	PLANTING PLAN
L4.04	PLANTING PLAN
L5.01	SITE SECTIONS
L5.02	SITE SECTIONS
L5.03	SITE SECTIONS
L6.01	DRAINAGE DETAILS
L6.02	PAVING DETAILS
L6.03	PAVING DETAILS
L6.06	WALL AND STAIR DETAILS
L6.07	AMENITY DETAILS
L7.01	PLANTING DETAILS

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

COVER SHEET KEY MAP INDEX

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

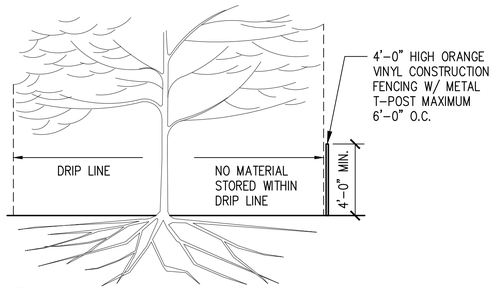
SHEET
L0.00
SHEET OF SHEETS

Bar Measures 1 inch

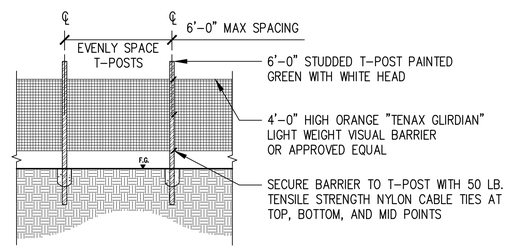
Copyright: Tetra Tech

p:\TET\texts8\01\culver widening project\drawings\graphics\AutoCAD\Sheets\L0.00-COVER SHEET-KEY MAP INDEX.dwg\K MGERHARTS\ABCHJQ (24.00 X 36.00 INCHES) | 8/24/2018

DRIP LINE:
WHICHEVER HAS THE GREATEST AREA
1. THE IRREGULAR SHAPE FORMED AROUND A TREE BY A SERIES OF VERTICAL LINES THAT RUNS THROUGH THE OVER MOST PORTION OF THE TREE AND EXTEND TO THE GROUND.
2. CIRCULAR AREA WITH A RADIUS OF 1/2 THE HEIGHT OF THE TREE EXTENDING OUTWARD FROM THE CENTER POINT OF THE TREE.



01 TREE PROTECTION
NOT TO SCALE



02 TEMPORARY PROTECTION FENCE – ELEVATION
NOT TO SCALE

TREE PROTECTION & REMOVAL LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)
TREE #	PROTECT EXISTING TREE IN PLACE. SEE SPECIFICATIONS FOR TREATMENT. REFER TO NOTES ON SHEET L0.03 TREE PROTECTION GUIDELINES. TREE PROTECTION FENCE – FOR GRAPHIC DEPICTION ONLY. FOR EXTENTS OF FENCE SEE SPECS.	
	EXISTING TREE TO BE DEMOLISHED AND REMOVED. REMOVE ENTIRETY OF TREE; ALL ROOT MATERIALS.	

TREE PRESERVATION SPECIFICATIONS

1. THE CONTRACTOR, THROUGHOUT THE DURATION OF THE PROJECT, SHALL BE DIRECTLY RESPONSIBLE FOR PROTECTION AND WELFARE OF EXISTING TREES, SHRUBS AND GROUNDCOVER WITHIN AND AROUND THE CONTRACT LIMITS THAT ARE NOTED TO REMAIN. RESPONSIBILITIES SHALL INCLUDE BUT NOT BE LIMITED TO:
   a. WATERING THROUGHOUT THE DURATION OF CONSTRUCTION AND PROVIDE SUPPLEMENTAL IRRIGATION TO TREES AS DIRECTED BY THE OWNER.
   b. ENGAGING AN EXPERIENCED TREE SERVICE FIRM WITH WORKMAN HAVING THE FOLLOWING QUALIFICATIONS: A LICENSED ARBORIST SHALL PERFORM TREE TRIMMING. NOT MORE THAN 1/3 OF THE FOLIAGE OF A TREE SHALL BE REMOVED IN A 12-MONTH PERIOD. PROVIDE AT LEAST ONE PERSON APPROVED BY THE OWNER WHO SHALL BE PRESENT AT ALL TIMES DURING TREE PROTECTION AND TRIMMING OPERATIONS, WHO SHALL BE THOROUGHLY FAMILIAR WITH THE TYPE OF WORK INVOLVED, AND WHO SHALL DIRECT ALL PROTECTION AND TRIMMING WORK THROUGHOUT THE CONSTRUCTION DURATION.
   c. PROVIDING ALL PROTECTION FENCING AS REQUIRED AND PROVIDING PROTECTION FROM MECHANICAL DAMAGE, SOIL COMPACTION, POLLUTION FROM ALL SOURCES, AND DISRUPTION OF ENVIRONMENTAL SUPPORT THAT WOULD RESULT IN THE LOSS OF VIGOR OF SAID PLANTINGS.
2. PRE-INSTALLATION CONFERENCE: CONDUCT CONFERENCE AT THE PROJECT SITE TO COMPLY WITH TREE PROTECTION REQUIREMENTS OF THE OWNER.
   a. BEFORE COMMENCING TREE PROTECTION AND TRIMMING, MEET WITH REPRESENTATIVES TO REVIEW TREE PROTECTION AND TRIMMING PROCEDURES AND RESPONSIBILITIES AND ANY MEANS AND ... FOR PROTECTION OR TEMPORARY ACCESS UNDER THE TPZ.
3. DEFINITIONS:
   a. TREE PROTECTION ZONE (TPZ): THE AREA OF 'NO CONSTRUCTION' THAT PROHIBITS UNDERGROUND TRENCHING AND IS TO BE MAINTAINED AS ZONES FREE OF DISTURBANCES AND COMPACTION PRIOR TO INSTALLATION OF PROTECTION FENCE.
   b. DRIP LINE: AN IMAGINARY LINE ON THE GROUND AROUND A TREE REPRESENTING ITS OUTERMOST BRANCH TIPS. ALL OF THE AREA WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN IS TO BE PROTECTED FROM DAMAGE AS SPECIFIED HEREIN, UNLESS OTHERWISE NOTED.
4. PROTECTION FENCE: PROVIDE ADEQUATE PROTECTION OF EXISTING TREES TO REMAIN AGAINST, ABOVE AND BELOW GRADE DAMAGE FROM CONSTRUCTION OPERATIONS AND COMPACTION OF CURIAL ROOT ZONE AREAS. INSTALL 4'-0" HIGH ORANGE VINYL CONSTRUCTION FENCING AT OR BEYOND CANOPY/DRIP LINE. PROTECTIVE FENCING SHALL BE IN PLACE BEFORE ANY OTHER WORK IS BEGUN ON SITE, INCLUDING MATERIALS DELIVERY AND STORAGE. THE FENCE WILL BE MAINTAINED AND REMAIN UNTIL THE PROJECT IS COMPLETE AND DIRECTION FOR REMOVAL IS RECEIVED FROM THE OWNER.
   a. TRUNK PROTECTION: TAKE EXTREME CARE TO PROTECT THE TRUNK AND ROOTS IN THE TPZ RADIUS, INCLUSIVE OF THE TREE FOLIAGE.
   b. USING TREES AS SUPPORT POSTS, BRACING, POWER POLES, SIGN POSTS, ROPE ANCHORAGE'S, GUY WIRE SUPPORTS, POWER LINES OR OTHER SIMILAR FUNCTIONS IS PROHIBITED.
   c. THERE SHALL BE NO DISPOSING PAINT, PETROLEUM PRODUCTS, POLLUTED WATER, SOIL STERILANTS, OR OTHER ITEMS CONSIDERED DELETERIOUS TO THE HEALTH OF TREE ROOTS.
   d. GRADING OR SOIL ELEVATION CHANGES AROUND AND AGAINST THE TRUNK OF THE SURROUNDING ROOT ZONE MEASURED FROM THE DRIP LINE INTO THE TRUNK ARE ONLY AS DIRECTED BY THE OWNER.
5. DAMAGED TREE(S): ANY TREE TO REMAIN THAT IS DAMAGED OR DESTROYED DUE TO CONSTRUCTION PROCEDURE, CONTRACTOR NEGLIGENCE OR FAILURE TO PROVIDE ADEQUATE PROTECTION REQUIRES IMMEDIATE NOTIFICATION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL COMPENSATE THE OWNER IN ACCORDANCE WITH THE FOLLOWING SCHEDULE OF VALUES, USING ISA PER ARBORIST AND OR LOCAL JURISDICTION. COORDINATION OF CORRECTIVE REPAIRS AND COST OF CORRECTIVE REPAIRS SHALL BE BORNE BY CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
6. ROOT PRUNING PROCEDURE: APPROVAL: NO ROOT PRUNING SHALL BE PERFORMED WITHOUT THE APPROVAL OF THE OWNER. AVOID ROOT PRUNING TO PREVENT DISRUPTION OF NUTRIENTS, WATER UPTAKE AND NATURAL STABILITY OF THE ROOT SYSTEM. NOTIFY THE OWNER IF ROOT PRUNING BECOMES NECESSARY DURING THE COURSE OF CONSTRUCTION. REVIEW OF ROOT PRUNING METHOD SHALL BE MADE WITH THE PROJECT LANDSCAPE ARCHITECT AND THE OWNER BEFORE WORK IS PERFORMED. ROOT PRUNING PROCEDURES AS NOTED IS INITIATED WHEN ROOT OF 2 INCHES AND LARGER IN DIAMETER ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION.
   a. ROOT PRUNING: ALL ROOTS ARE TO BE CUT WITH A SAW, LOPPING SHEARS, OR APPROVED CUTTING DEVICE TO LEAVE A CLEAN CUT SURFACE AT THE ROOT END. SPLINTERED OR SHREDDED ENDS SHALL BE UNACCEPTABLE. DO NOT CUT MAIN LATERAL ROOTS OR TAP ROOTS; CUT ONLY SMALLER ROOTS THAT INTERFERE WITH INSTALLATION OF NEW WORK. CUT ROOTS WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP.
   b. ROOT PROTECTION AFTER CUTTING: KEEP AREA MOIST AND OR COVERED WITH MOIST SOIL UNTIL PERMANENT BACK FILL IS PLACED OR AS DIRECTED BY OWNER.

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

EXISTING TREE & PROTECTION
LEGEND & NOTES

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L0.01
SHEET OF SHEETS

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

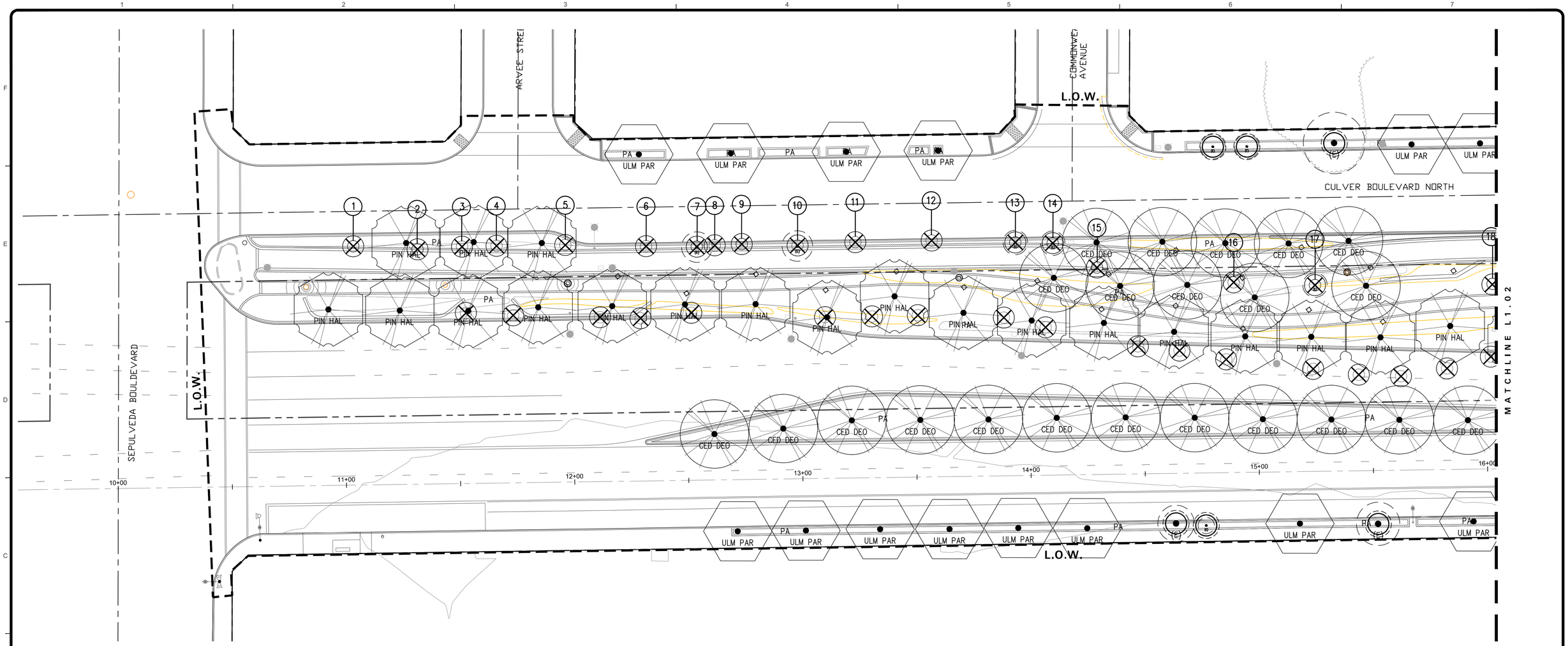
PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

Copyright: Tetra Tech

Bar Measures 1 inch

p:\TET\texts8\01-culver widening project\drawings\graphics\AutoCAD\Sheets\L0.01-PLANTING\AREA & NOTES.dwg\ARCH-D(24.00 X 36.00 INCHES) | 8/24/2018



TREE DEMOLITION & PROTECTION SCHEDULE		
REFERENCE	SPECIES	ACTION
TREE 1	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 2	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 3	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 4	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 5	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 6	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 7	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 8	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 9	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 10	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 11	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 12	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 13	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 14	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 15	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 16	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 17	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 18	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 19	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 20	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 21	PYRUS CALLERYANA	PROTECT IN PLACE
TREE 22	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 23	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 24	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 25	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 26	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 27	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 28	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 29	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 30	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 31	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 32	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 33	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 34	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 35	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 36	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 37	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 38	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 39	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 40	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 41	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 42	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 43	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 44	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 45	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 46	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 47	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 48	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 49	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 50	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 51	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 52	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 53	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 54	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 55	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 56	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 57	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 58	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 59	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 60	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 61	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 62	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 63	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE
TREE 64	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 65	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 66	ERYTHRINA	PROTECT IN PLACE
TREE 67	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 68	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE
TREE 69	JUNIPERUS CHINENSIS	DEMOLISH AND REMOVE
TREE 70	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 71	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 72	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 73	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE
TREE 74	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE
TREE 75	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 76	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 77	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 78	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 79	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 80	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 81	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 82	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 83	CORYMBIA CITRIODORA	
TREE 84	CORYMBIA CITRIODORA	
TREE 85	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 86	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 87	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 88	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 89	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 90	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 91	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 92	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 93	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 94	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 95	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 95–143	WASHINGTONIA ROBUSTA	DEMOLISH AND REMOVE

TREE PROTECTION & REMOVAL LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)
TREE #	PROTECT EXISTING TREE IN PLACE. SEE SPECIFICATIONS FOR TREATMENT. REFER TO NOTES ON SHEET L0.03 TREE PROTECTION GUIDELINES. TREE PROTECTION FENCE – FOR GRAPHIC DEPICTION ONLY. FOR EXTENTS OF FENCE SEE SPECS.	
	EXISTING TREE TO BE DEMOLISHED AND REMOVED. REMOVE ENTIRETY OF TREE; ALL ROOT MATERIALS.	

0 10 20
1" = 20'

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
	.			
	.			
	.			
	.			
	.			

EXISTING TREE & PROTECTION PLAN

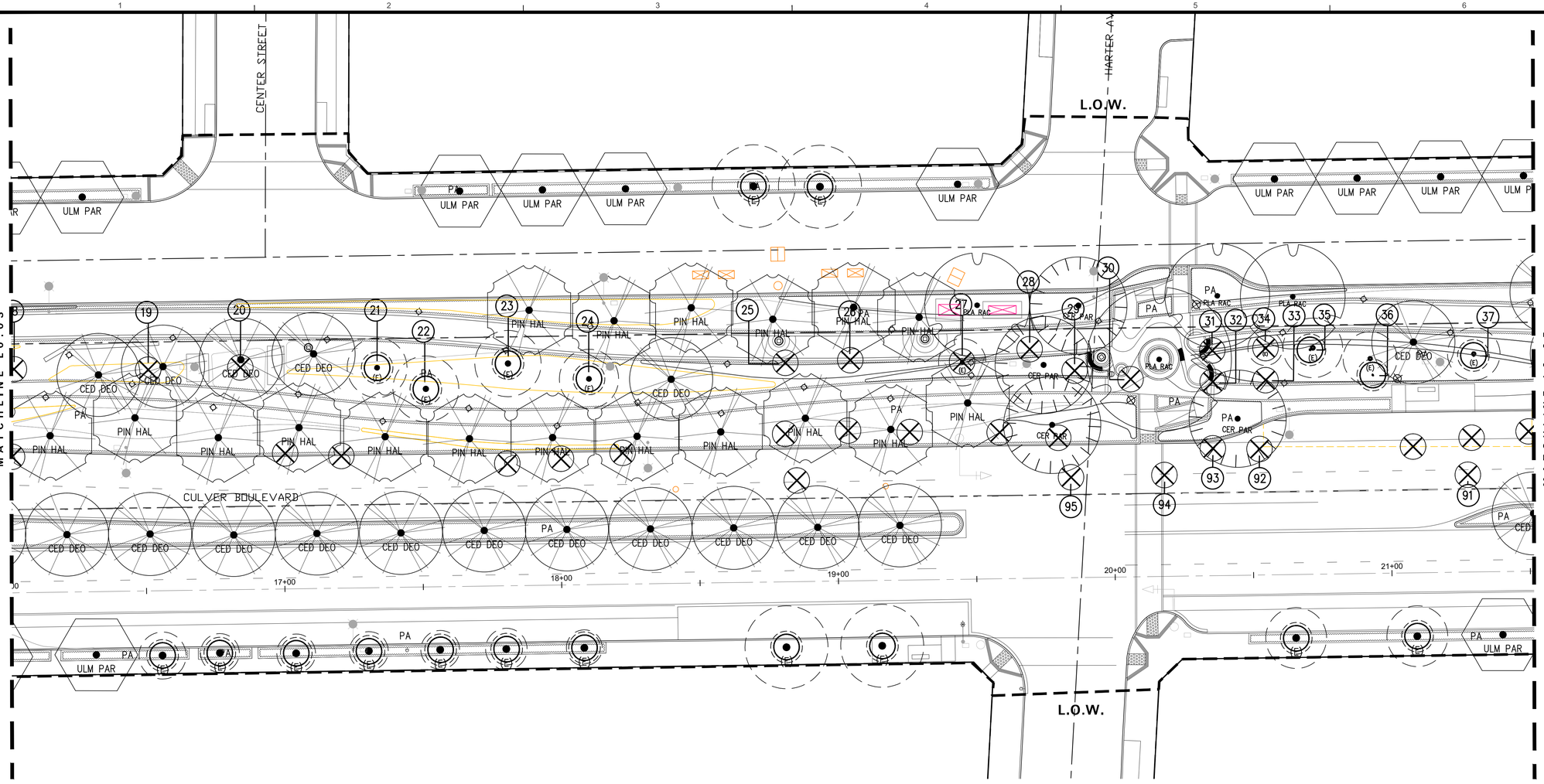
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET L0.02
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets80915culver_widening\project4\drawings\graphics\AutoCAD\Sheets\L0.02_EXISTING TREE & PROTECTION PLAN.dwg | MGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



TREE DEMOLITION & PROTECTION SCHEDULE											
REFERENCE	SPECIES	ACTION									
TREE 1	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 29	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 57	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 83	CORYMBIA CITRIODORA	
TREE 2	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 30	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 58	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 84	CORYMBIA CITRIODORA	
TREE 3	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 31	LAGERSTROEMIA INDICA	PROTECT IN PLACE	TREE 59	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 85	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 4	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 32	LAGERSTROEMIA INDICA	PROTECT IN PLACE	TREE 60	PLATANUS X HISPANICA	PROTECT IN PLACE	TREE 86	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 5	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 33	LAGERSTROEMIA INDICA	PROTECT IN PLACE	TREE 61	PLATANUS X HISPANICA	PROTECT IN PLACE	TREE 87	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 6	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 34	LAGERSTROEMIA INDICA	PROTECT IN PLACE	TREE 62	PLATANUS X HISPANICA	PROTECT IN PLACE	TREE 88	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 7	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 35	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 63	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE	TREE 89	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 8	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 36	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 64	PLATANUS X HISPANICA	PROTECT IN PLACE	TREE 90	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 9	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 37	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 65	PRUNUS CERASIFERA	DEMOLISH AND REMOVE	TREE 91	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 10	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 38	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 66	ERYTHRINA	PROTECT IN PLACE	TREE 92	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 11	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 39	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 67	PRUNUS CERASIFERA	DEMOLISH AND REMOVE	TREE 93	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 12	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 40	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 68	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE	TREE 94	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 13	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 41	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 69	JUNIPERUS CHINENSIS	DEMOLISH AND REMOVE	TREE 95	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 14	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 42	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 70	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 95–143	WASHINGTONIA ROBUSTA	DEMOLISH AND REMOVE
TREE 15	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 43	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 71	PINUS CANARIENSIS	PROTECT IN PLACE			
TREE 16	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 44	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 72	PINUS CANARIENSIS	PROTECT IN PLACE			
TREE 17	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 45	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 73	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE			
TREE 18	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 46	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 74	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE			
TREE 19	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 47	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 75	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE			
TREE 20	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 48	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 76	PINUS CANARIENSIS	DEMOLISH AND REMOVE			
TREE 21	PYRUS CALLERYANA	PROTECT IN PLACE	TREE 49	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 77	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE			
TREE 22	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 50	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 78	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE			
TREE 23	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 51	PLATANUS X HISPANICA	PROTECT IN PLACE	TREE 79	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE			
TREE 24	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 52	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 80	PLATANUS X HISPANICA	DEMOLISH AND REMOVE			
TREE 25	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 53	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 81	PLATANUS X HISPANICA	DEMOLISH AND REMOVE			
TREE 26	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 54	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 82	PLATANUS X HISPANICA	DEMOLISH AND REMOVE			
TREE 27	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 55	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE						
TREE 28	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 56	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE						

TREE PROTECTION & REMOVAL LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)
TREE #	PROTECT EXISTING TREE IN PLACE. SEE SPECIFICATIONS FOR TREATMENT. REFER TO NOTES ON SHEET L0.03 TREE PROTECTION GUIDELINES. TREE PROTECTION FENCE – FOR GRAPHIC DEPICTION ONLY. FOR EXTENTS OF FENCE SEE SPECS.	
	EXISTING TREE TO BE DEMOLISHED AND REMOVED. REMOVE ENTIRETY OF TREE; ALL ROOT MATERIALS.	

0 10 20
1" = 20'

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

EXISTING TREE & PROTECTION PLAN

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

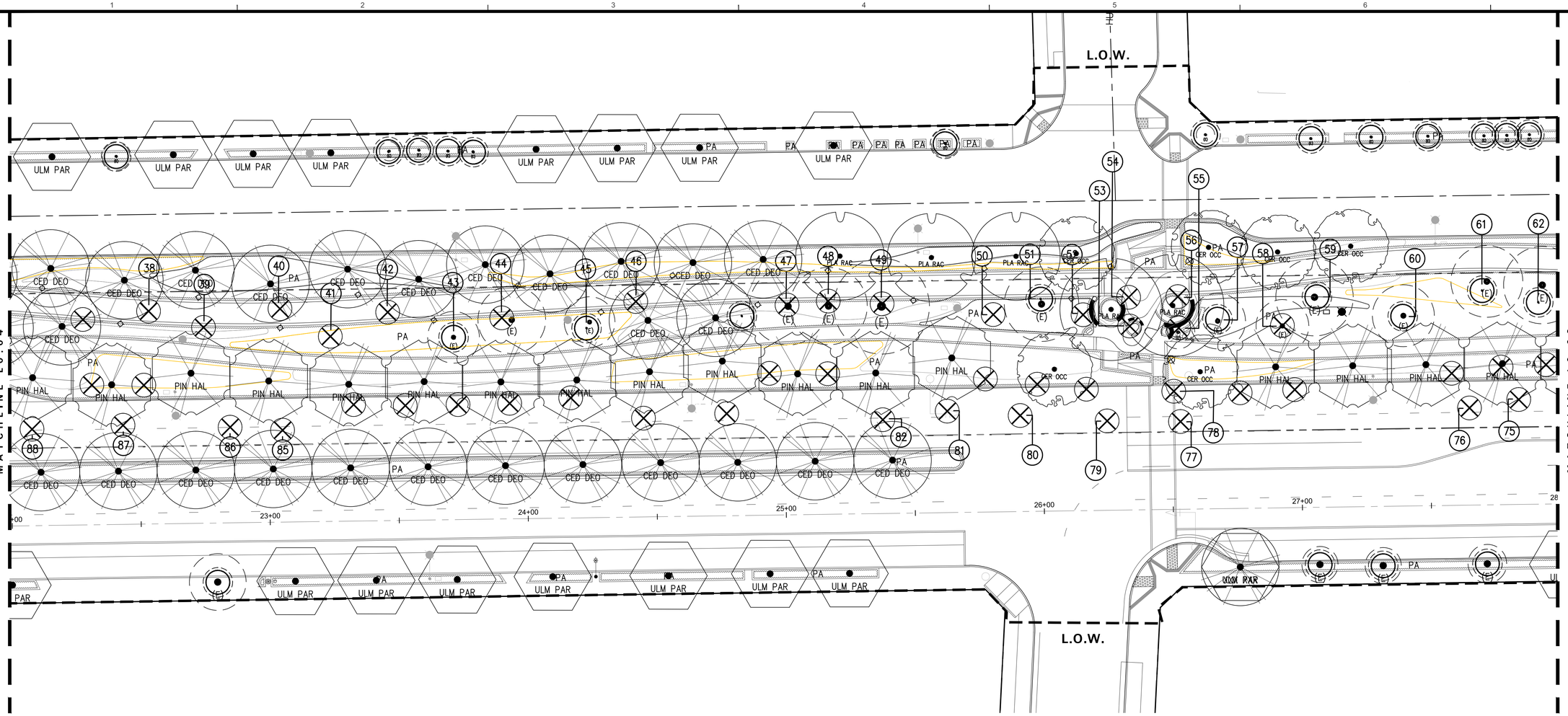
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L0.03
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801\culver widening project4\drawingsgraphics\AutoCAD\Sheets\L0.02_EXISTING TREE & PROTECTION PLAN.dwg | MGERHARTE | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



TREE DEMOLITION & PROTECTION SCHEDULE		
REFERENCE	SPECIES	ACTION
TREE 1	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 2	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 3	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 4	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 5	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 6	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 7	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 8	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 9	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 10	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 11	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 12	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 13	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 14	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 15	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 16	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 17	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 18	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 19	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 20	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 21	PYRUS CALLERYANA	PROTECT IN PLACE
TREE 22	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 23	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 24	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 25	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 26	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 27	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 28	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 29	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 30	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 31	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 32	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 33	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 34	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 35	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 36	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 37	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 38	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 39	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 40	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 41	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 42	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 43	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 44	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 45	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 46	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 47	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 48	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 49	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 50	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 51	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 52	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 53	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 54	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 55	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 56	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 57	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 58	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 59	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 60	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 61	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 62	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 63	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE
TREE 64	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 65	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 66	ERYTHRINA	PROTECT IN PLACE
TREE 67	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 68	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE
TREE 69	JUNIPERUS CHINENSIS	DEMOLISH AND REMOVE
TREE 70	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 71	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 72	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 73	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE
TREE 74	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE
TREE 75	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 76	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 77	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 78	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 79	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 80	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 81	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 82	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 83	CORYMBIA CITRIODORA	
TREE 84	CORYMBIA CITRIODORA	
TREE 85	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 86	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 87	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 88	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 89	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 90	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 91	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 92	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 93	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 94	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 95	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 95-143	WASHINGTONIA ROBUSTA	DEMOLISH AND REMOVE

TREE PROTECTION & REMOVAL LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)
TREE #	PROTECT EXISTING TREE IN PLACE. SEE SPECIFICATIONS FOR TREATMENT. REFER TO NOTES ON SHEET L0.03 TREE PROTECTION GUIDELINES. TREE PROTECTION FENCE – FOR GRAPHIC DEPICTION ONLY. FOR EXTENTS OF FENCE SEE SPECS.	
	EXISTING TREE TO BE DEMOLISHED AND REMOVED. REMOVE ENTIRETY OF TREE; ALL ROOT MATERIALS.	

0 10 20
1" = 20'

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

EXISTING TREE & PROTECTION PLAN

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
	.			
	.			
	.			
	.			
	.			

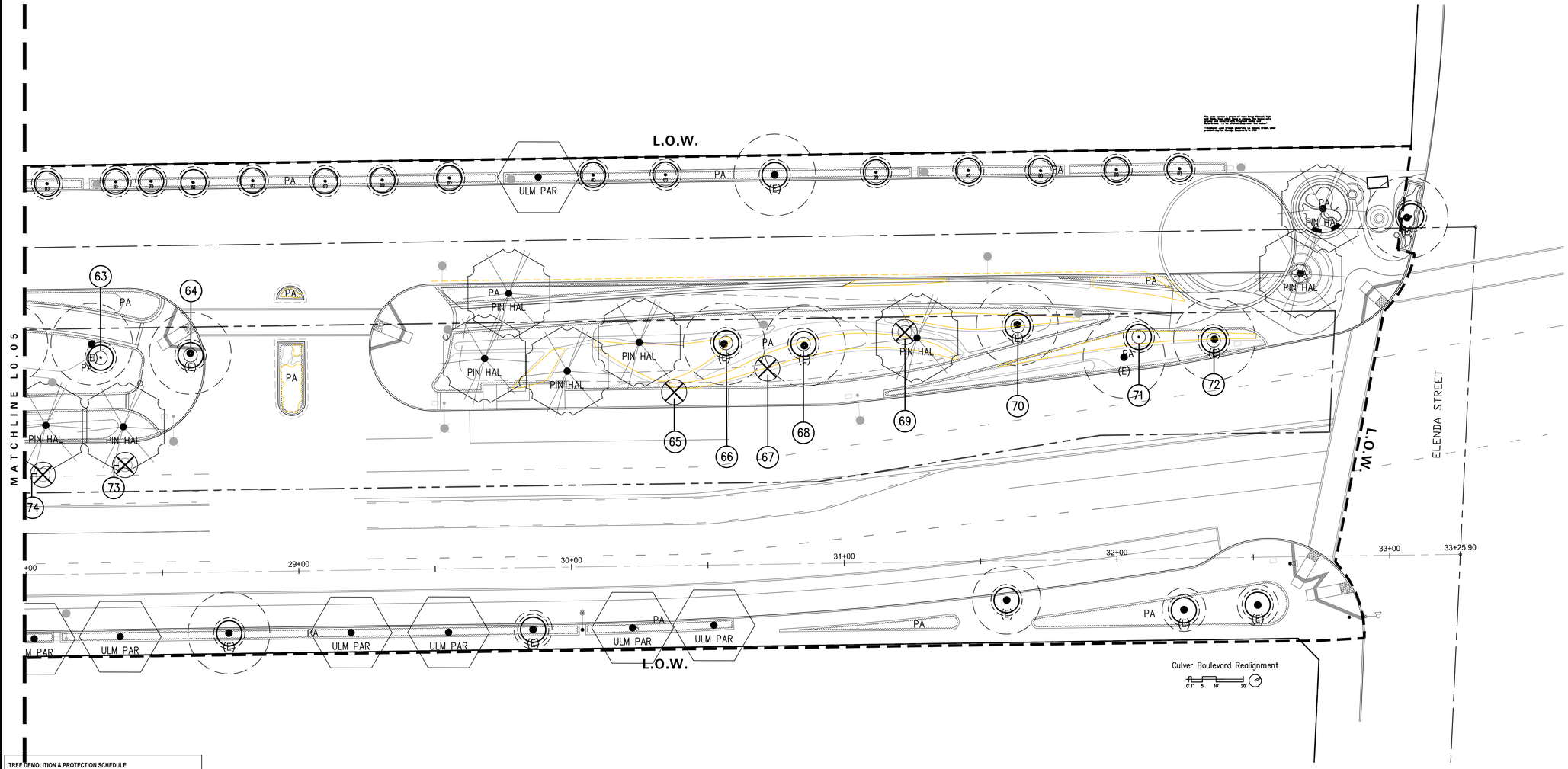
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET L0.04
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TETA\tets680\culver_widening\project\d\drawings\graphics\AutoCAD\Sheets\L0.04_EXISTING_TREE&TREE PROTECTION PLAN.dwg\jpMGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



TREE DEMOLITION & PROTECTION SCHEDULE

REFERENCE	SPECIES	ACTION
TREE 1	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 2	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 3	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 4	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 5	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 6	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 7	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 8	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 9	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 10	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 11	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 12	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 13	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 14	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 15	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 16	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 17	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 18	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 19	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 20	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 21	PYRUS CALLERYANA	PROTECT IN PLACE
TREE 22	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 23	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 24	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 25	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 26	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 27	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 28	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 29	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 30	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 31	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 32	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 33	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 34	LAGERSTROEMIA INDICA	PROTECT IN PLACE
TREE 35	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 36	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 37	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 38	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 39	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 40	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 41	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 42	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 43	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 44	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 45	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 46	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 47	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 48	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 49	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 50	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 51	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 52	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 53	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 54	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 55	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 56	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 57	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 58	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 59	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 60	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 61	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 62	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 63	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE
TREE 64	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 65	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 66	ERYTHRINA	PROTECT IN PLACE
TREE 67	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 68	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE
TREE 69	JUNIPERUS CHINENSIS	DEMOLISH AND REMOVE
TREE 70	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 71	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 72	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 73	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE
TREE 74	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE
TREE 75	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 76	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 77	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 78	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 79	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 80	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 81	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 82	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 83	CORYMBIA CITRIODORA	
TREE 84	CORYMBIA CITRIODORA	
TREE 85	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 86	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 87	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 88	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 89	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 90	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 91	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 92	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 93	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 94	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 95	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 95–143	WASHINGTONIA ROBUSTA	DEMOLISH AND REMOVE

TREE PROTECTION & REMOVAL LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)
TREE #	PROTECT EXISTING TREE IN PLACE. SEE SPECIFICATIONS FOR TREATMENT. REFER TO NOTES ON SHEET L0.03 TREE PROTECTION GUIDELINES. TREE PROTECTION FENCE – FOR GRAPHIC DEPICTION ONLY. FOR EXTENTS OF FENCE SEE SPECS.	
	EXISTING TREE TO BE DEMOLISHED AND REMOVED. REMOVE ENTIRETY OF TREE; ALL ROOT MATERIALS.	

0 100 200
1" = 200'

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

EXISTING TREE & PROTECTION PLAN

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L0.05
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801\culver-widening\project4\drawings\graphics\AutoCAD\Sheets\L0.05_EXISTING_TREE&PROTECTION_PLAN.dwg\MGERHART | ARCHD (24.00 X 36.00 INCHES) | 8/24/2018

GENERAL NOTES

1. VERIFICATION: VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, LIMITS OF WORK, EASEMENTS, BUILDINGS, ROADWAY CURB AND/OR GUTTERS, UTILITIES, DUCT BANKS, AND OTHER INFORMATION THAT MAY AFFECT THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. MORE SPECIFIC UTILITY INFORMATION IS INDICATED ON THE CIVIL ENGINEER DRAWINGS. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE DRAWINGS.
2. AREA OF DISTURBANCE: LIMIT USE OF PREMISES TO WORK IN AREAS AS INDICATED. DO NOT DISTURB PORTIONS OF THE SITE BEYOND AREAS IN WHICH WORK IS INDICATED. KEEP DRIVEWAYS AND ENTRANCES SERVING PREMISES CLEAR AND AVAILABLE TO THE OWNER AND EMERGENCY VEHICLES AT ALL TIMES. DO NOT USE THESE AREAS FOR PARKING OR STORAGE OF MATERIALS. SCHEDULE DELIVERIES TO MINIMIZE USE OF DRIVEWAYS AND ENTRANCES.
3. EXISTING UTILITIES: VERIFY THE LOCATION OF UTILITIES PRIOR TO COMMENCEMENT OF EXCAVATION THROUGH NOTIFICATION OF LOCAL AUTHORITIES AND UNDERGROUND SERVICE ALERT (USA 1-800-422-4133) AT LEAST 48-HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL CAREFULLY EXCAVATE, AS NECESSARY, TO CONFIRM UTILITY LOCATIONS, AND WHEN WORKING IN THE VICINITY OF UTILITIES. ANY DAMAGE TO UTILITIES THAT ARE TO BE PROTECTED IN PLACE OR DESIGNATED TO REMAIN WHICH IS CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OR INSTALLATION OF WORK UNDER THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AND AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK.
4. BASE INFO: BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINES, EASEMENTS, BUILDINGS, ROADS, AND CURBS HAVE BEEN PROVIDED BY THE CIVIL ENGINEER. BUILDING FOOTPRINTS HAVE BEEN PROVIDED BY ARCHITECT. FOR ADDITIONAL INFORMATION, REFER TO ARCHITECT AND CIVIL ENGINEER DRAWINGS.
5. CONFLICTS: WHERE PLANS AND/OR SPECIFICATIONS ARE FOUND TO BE IN CONFLICT, OR WHERE VARIOUS ITEMS OF WORK ARE SEEN TO BE IN CONFLICT, IMMEDIATELY NOTIFY OWNER AND/OR LANDSCAPE ARCHITECT FOR DIRECTION PRIOR TO PROCEEDING WITH WORK.
6. DESIGN CONSULTANT ADVISORY: ADVISE CONSTRUCTION AND OPERATIONS WITH THE PROJECT'S DESIGN CONSULTANTS FOR WORK INDICATED HEREIN. INFORM THE OWNER AND LANDSCAPE ARCHITECT ON THE PREFERRED CONSTRUCTION SCHEDULE PRIOR TO THE WORK BEING PERFORMED. ADJUST CONSTRUCTION SCHEDULE ACCORDINGLY BASED ON A MUTUALLY-AGREEABLE TIMETABLE. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT IF CHANGE TO CONSTRUCTION SCHEDULE IS REQUIRED DUE TO DIFFERENCES IN ACTUAL CONSTRUCTION PROGRESS. INCLUDE THE PROJECT'S DESIGN CONSULTANTS AT PRE-INSTALLATION MEETINGS COVERING PORTIONS OF THE WORK THAT ARE RELATED. NOTIFY LANDSCAPE ARCHITECT IF CHANGES TO CONSTRUCTION SCHEDULE ARE REQUIRED DUE TO DIFFERENCES IN ACTUAL CONSTRUCTION PROGRESS.
7. WATERPROOFING: CARE SHALL BE TAKEN TO PRESERVE AND FULLY PROTECT THE INTEGRITY OF WATERPROOF MEMBRANE SYSTEMS WHERE THEY OCCUR ON SITE, AS APPLICABLE. CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE TO WATERPROOFING AT NO COST TO OWNER.
8. CLEAN UP: CONTRACTOR SHALL REMOVE LITTER AND DEBRIS FROM THE PROJECT SITE AS REQUIRED TO KEEP SITE IN AN ORDERLY FASHION. DUST CONTROL MEASURES SHALL BE EXERCISED.

LAYOUT NOTES

1. VERIFICATION: DIMENSIONS AND GRADES SHALL BE VERIFIED ON-SITE. VERIFY LOCATION OF BUILDINGS, WALLS, ROADS AND CURBS AFFECTING LANDSCAPE SCOPE OF WORK WITH ARCHITECTURAL AND CIVIL ENGINEER'S DRAWINGS. WHERE NOT SHOWN ON LANDSCAPE DRAWINGS, SEE CIVIL ENGINEER'S DRAWINGS FOR ROADWAY CENTERLINES, BUILDING SETBACKS AND BENCH MARKS. VERIFY LOCATION OF VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES WITH THE APPROPRIATE ENGINEERING DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING LANDSCAPE ARCHITECT ON ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
2. ORIENTATION OF SITE ELEMENTS: DIMENSIONS AS NOTED ARE TAKEN PERPENDICULAR TO FACE OF BUILDING OR WALL, BACK OF CURB, OR OTHER FIXED SITE IMPROVEMENT, AS APPLICABLE, UNLESS OTHERWISE NOTED. DIMENSIONS TO CENTERLINES ARE AS INDICATED. WHERE DIMENSIONS ARE INDICATED AS "EQUAL", REFERENCED ITEMS SHALL BE SPACED EQUALLY, AS MEASURED TO THEIR RESPECTIVE CENTERLINES. INSTALL INTERSECTING ELEMENTS AT 90-DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED. ALL LINES OF PAVING AND/OR FENCING SHALL BE PARALLEL UNLESS OTHERWISE NOTED. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON THE DRAWINGS. DIMENSIONS TAKEN TO CENTERLINE OF BUILDING COLUMN SHALL MEAN THE FIRST ROW OF COLUMNS CLOSEST TO THE FACE OF THE BUILDING. SEE CIVIL SURVEY DRAWINGS FOR CORRESPONDING COLUMN LINES.
3. CONFLICTS: VERIFY LOCATIONS OF SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THESE DRAWINGS CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT LANDSCAPE ARCHITECT FOR INSTRUCTION PRIOR TO COMMENCING WORK.
4. HIERARCHY: WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE. WHERE INDICATED, NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
5. DISABILITY REQUIREMENTS: REFER TO CIVIL GRADING DRAWINGS FOR FINISHED PAVING SURFACES FOR AREAS RELATING TO THE A.D.A. (AMERICANS WITH DISABILITIES ACT) ALONG ACCESS AND EGRESS.
6. EXPANSION JOINTS: PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CAST-IN-PLACE CONCRETE PAVING MEETS VERTICAL STRUCTURES SUCH AS WALLS, BUILDINGS, COLUMNS, CURBS, STEPS, RAMPS, METER BOXES,, UTILITY ACCESS BOXES, ETC.. CONCRETE SLABS AND RAMP OR STEP FOOTINGS SHALL BE DOWELED INTO ABUTTING WALLS, FOUNDATIONS, AND FOOTINGS USING SLEEVED SMOOTH REINFORCEMENT BARS OF THE SAME SIZE AND SPACING UNLESS OTHERWISE NOTED.
7. MOCKUPS: CONTRACTOR SHALL PROVIDE FIELD-CONSTRUCTED MOCKUP SAMPLES FOR EACH PAVING TYPE AND WALL TYPE AS INDICATED ON THE DRAWINGS. WORK FOR PAVING AND WALL TYPES SHALL NOT COMMENCE UNTIL EACH RESPECTIVE MOCKUP HAS BEEN REVIEWED AND ACCEPTED BY LANDSCAPE ARCHITECT. ACCEPTED MOCKUPS SHALL BE LOCATED IN A PROTECTED AREA ON-SITE WHERE THEY WILL NOT BE DAMAGED OR DISTURBED UNTIL SUBSTANTIAL COMPLETION IS GRANTED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR EACH RESPECTIVE FIELD-CONSTRUCTED MOCKUP SAMPLE.
8. IRRIGATION SLEEVING: CONTRACTOR SHALL REVIEW IRRIGATION PLANS FOR SLEEVE LOCATIONS TO BE SET UNDER PAVING AND OTHER LOCATIONS PRIOR TO CONSTRUCTION OF PAVING.
9. BEARING AND SCALE: REFERENCE TO NORTH REFERS TO TRUE NORTH. REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS; DO NOT SCALE FROM REDUCED DRAWINGS.
10. ELEVATIONS: HOLD TOP ELEVATIONS OF WALLS, FENCES, ETC. LEVEL UNLESS OTHERWISE NOTED.
11. WORK AT EXISTING TREES: ALL WORK PERFORMED WITHIN THE DRIP-LINE OF TREES DESIGNATED "EXISTING TREES TO REMAIN" SHALL BE HAND LABOR.

LIGHTING NOTES

1. ALL LIGHTING SHOWN ON PLANS IS DIAGRAMMATIC. ELECTRICAL ENGINEER TO COORDINATE ALL LIGHTING FIXTURES, CONDUIT, PHOTOMETRICS AND WIRING NECESSARY TO CREATE CITY APPROVED LIGHTING PLANS.
2. ALL LIGHTING FIXTURES ARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. MECHANICALLY FASTEN ALL LIGHTING FIXTURES WHERE POSSIBLE.
3. CONFIRM ALL LIGHTING FIXTURE PLACEMENT WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

ABBREVIATIONS

ABBREVIATION	EXTENSION
ADJ.	ADJACENT (LAYOUT)
ALIGN	ALIGN
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
CIP or C.I.P.	CAST-IN-PLACE (CONCRETE)
CIVIL or C.E.	CIVIL ENGINEER
CL	CENTERLINE (LAYOUT)
CONC.	CONCRETE
DIA	DIAMETER (LAYOUT)
ELEV.	ELEVATION
EJ	EXPANSION JOINT (CONCRETE)
EQ	EQUAL (LAYOUT)
FG or F.G.	FINISHED GRADE (TOP SOIL)
FS or F.S.	FINISHED SURFACE (HARD SURFACES)
HP	HIGH POINT (GRADIENT)
LA or L.A.	LANDSCAPE ARCHITECT
LOW or L.O.W.	LIMIT OF WORK
LP	LOW POINT (GRADIENT)
MAX.	MAXIMUM
MIN.	MINIMUM
NAP	NOT A PART
NTS or N.T.S.	NOT TO SCALE
OC or O.C.	ON-CENTER (LAYOUT)
OD or O.D.	OUTSIDE DIAMETER (LAYOUT)
PA or P.A.	PLANTING AREA
PERF.	PERFORATED
POB or P.O.B.	POINT OF BEGINNING (LAYOUT)
PL	PROPERTY LINE
R	RADIUS (LAYOUT)
REF	REFERENCE OR REFER TO
REINF.	REINFORCEMENT
S.E.	STRUCTURAL ENGINEER
SPECS	CONTRACT SPECIFICATIONS
SS	STAINLESS STEEL
TBD	TO BE DETERMINED
TC	TOP OF CURB (ELEVATION)
TG	TOP OF GRATE (ELEVATION)
TS	TOP OF STEP (ELEVATION)
TOSS	TOP OF SURFACE SLAB
TW	TOP OF WALL (ELEVATION)
TYP	TYPICAL
W/	WITH

LAYOUT LEGEND

SYMBOL	ITEM
	LIMIT OF WORK (L.O.W.)
	PROPERTY LINE
	VEHICLE ACCESS
	TREE TRUNK
	EXISTING TREE. RETAIN AND PROTECT.
PA	PLANTING AREA
	ALIGN
	DRAIN BY OTHERS, REFER CIVIL
	EXISTING HYDRANT
	TRAFFIC SIGNAL, REFER CIVIL
	TRAFFIC SIGNAL BOX, REFER CIVIL
	EXISTING UTILITY TO REMAIN, REFER CIVIL

MATERIALS LEGEND

SYMBOL	ITEM	MANUFACTURER	FINISH	REMARKS
	BOLLARD PATHWAY LIGHT #77 753	BEGA	STANDARD BRONZE	REFER TRAFFIC CONSULTANT FOR MORE INFORMATION
	TRADITIONAL SERIES DELPHI POLE	AMERON	PER MANUFACTURER SPEC	REFER TRAFFIC CONSULTANT FOR MORE INFORMATION
	CHASE TRASH RECEPTACLE	LANDSCAPE FORMS	POWDER COATED -STORMCLOUD STANDARD COLOR	SIDE OPEN
	CUSTOM MANHOLE COVER	NEENAH FOUNDRY	PER CITY SPEC	CUSTOM MANHOLE ART PIECE TO BE COORDINATE WITH CITY
W-1	WALL TYPE 1	C.I.P. CONCRETE SEAT WALL	DARK GREY SAND BLAST	TRADEMARK CONCRETE OR SIMILAR CONCRETE CONTRACTOR WWW.TRADEMARKCONCRETE.COM
W-2	WALL TYPE 2	C.I.P. CONCRETE RETAINING WALL	DARK GREY SAND BLAST	TRADEMARK CONCRETE OR SIMILAR CONCRETE CONTRACTOR WWW.TRADEMARKCONCRETE.COM

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

LAYOUT LEGEND

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET L1.00
SHEET OF SHEETS

DIGALERT DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

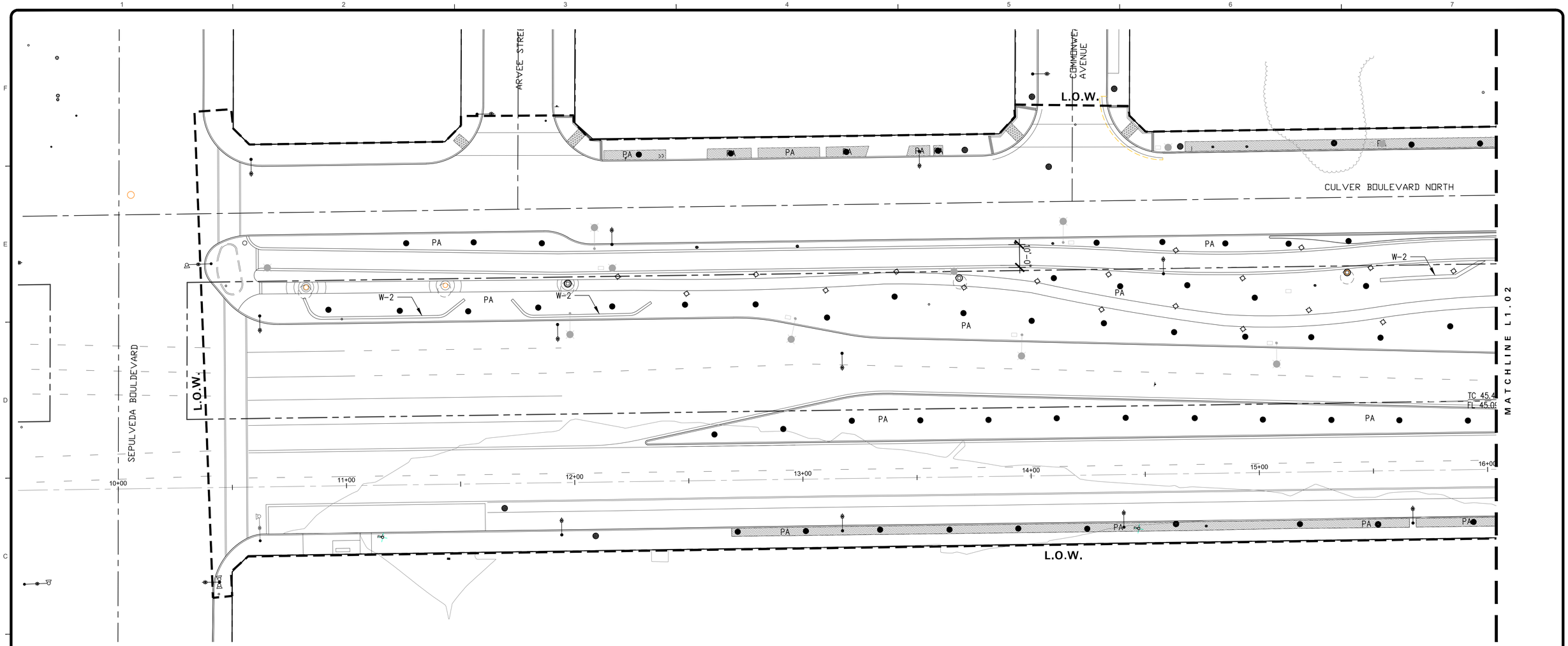
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
	.			
	.			
	.			
	.			
	.			

Bar Measures 1 inch

Copyright: Tetra Tech

8/24/2018 5:38:33 PM - P:\TET\TETS801 CULVER WIDENING PROJECT\4 DRAWINGS\GRAPHICS\AUTOCAD\SHEETS\L1.00 LAYOUT LEGEND.DWG - MARGARET GERHART



0 10 20
1" = 20'

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

LAYOUT PLAN

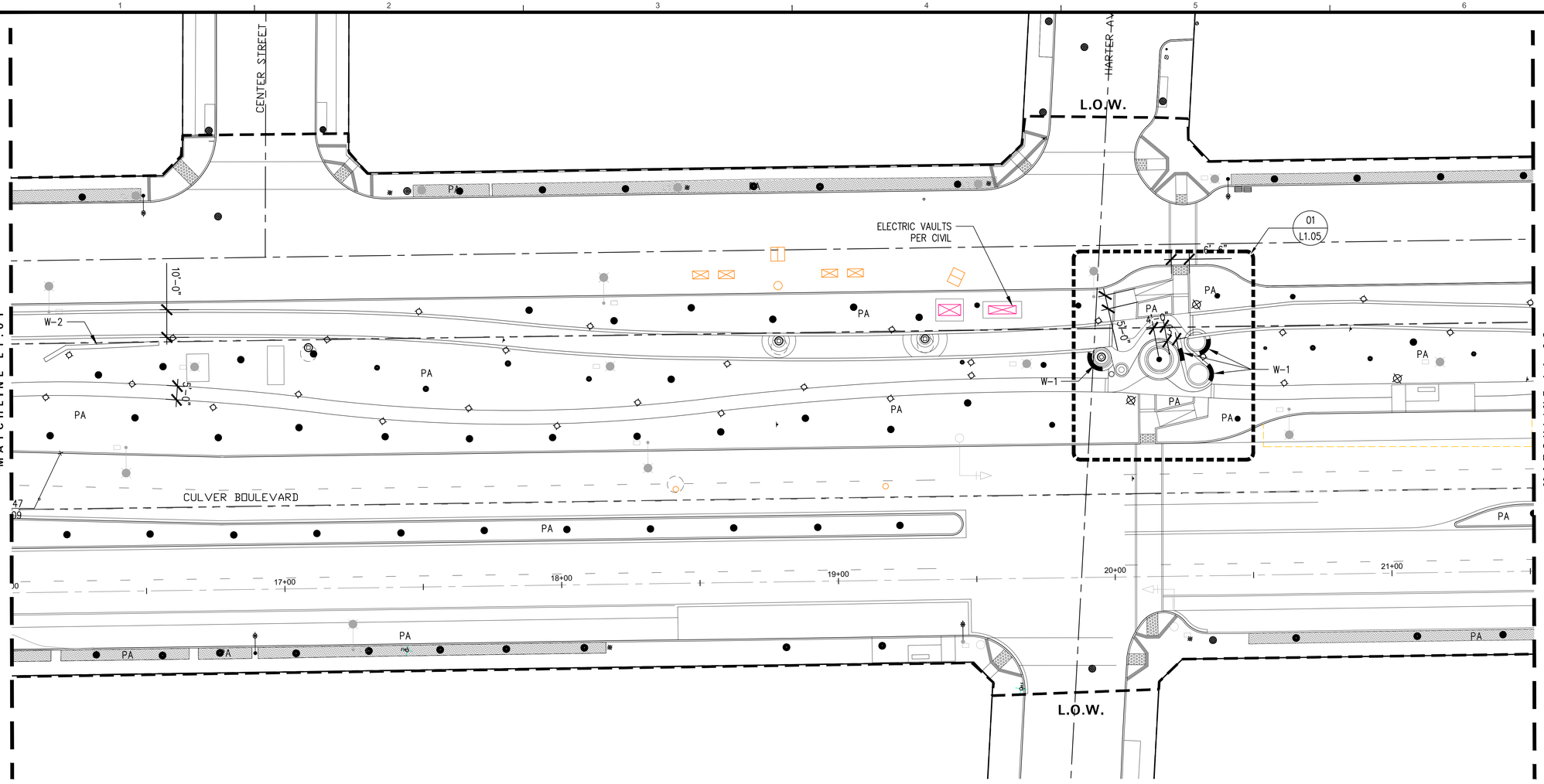
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L1.01
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801\culver widening project\4 drawings\graphics\AutoCAD\Sheets\L1.01 LAYOUT PLAN.dwg | MGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



0 10 20
1" = 20'

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

LAYOUT PLAN

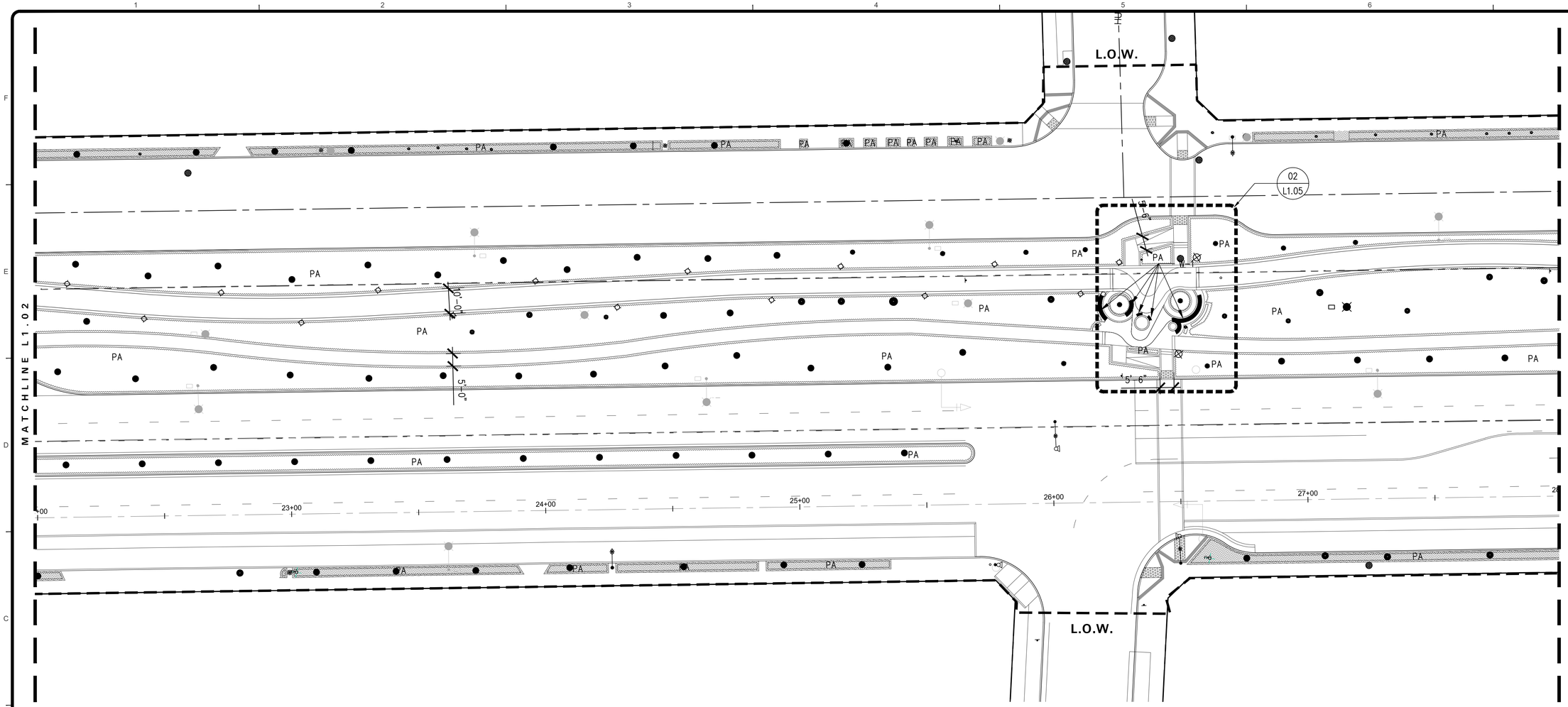
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L1.02
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801_culver_widening_project\4 drawings\graphics\AutoCAD\Sheets\L1.02_LAYOUT PLAN.dwg | MGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



0 100 200

1" = 200'

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

LAYOUT PLAN

APPROVED BY CHARLES D. HERBERTSON

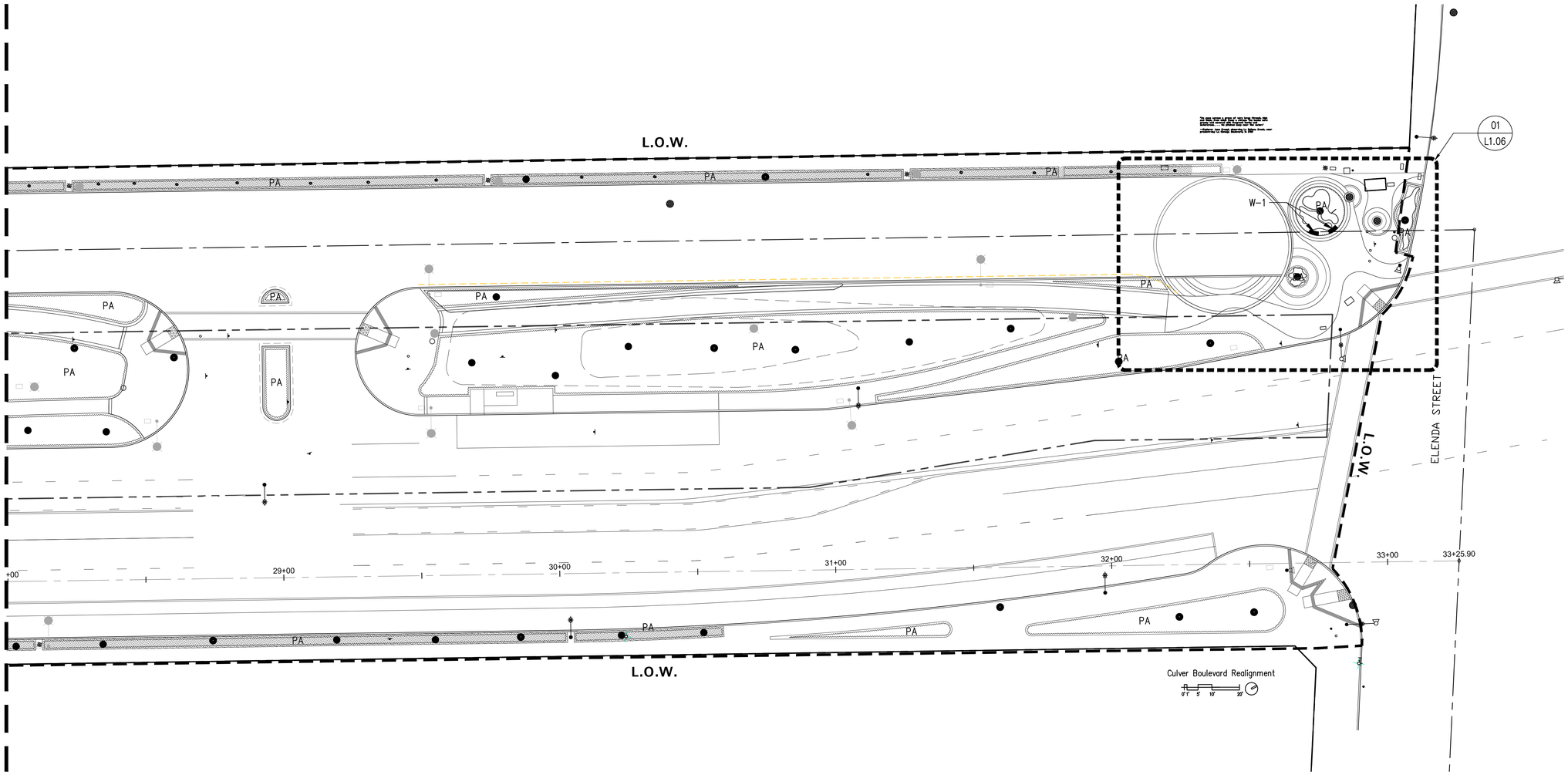
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L1.03
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801.culver widening project\4 drawings\graphics\AutoCAD\Sheets\L1.03 LAYOUT PLAN.dwg | MGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO. L1.04

NO.	REVISION	BY	APPR.	DATE

LAYOUT PLAN

APPROVED BY CHARLES D. HERBERTSON

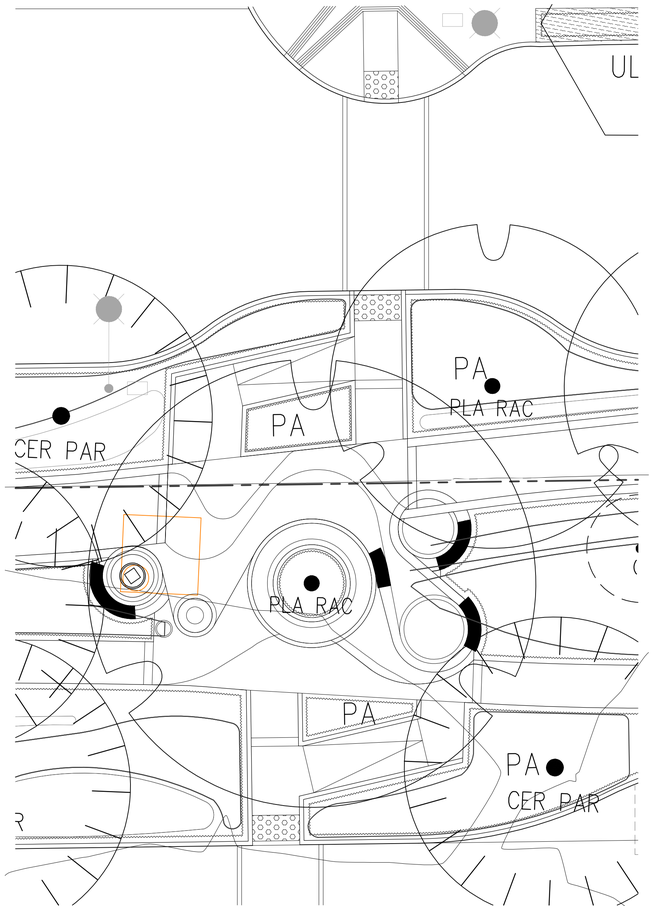
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L1.04
SHEET OF SHEETS

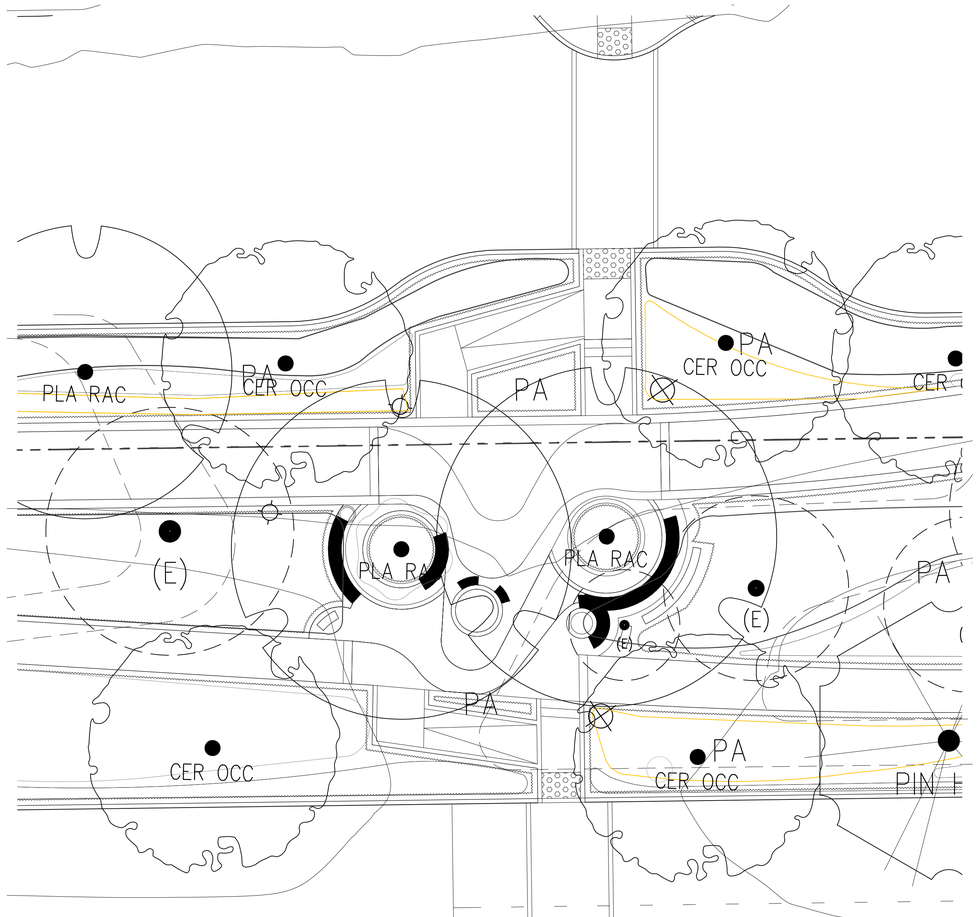
Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tet8011 culver widening project\4 drawings\graphics\AutoCAD\Sheets\L1.04 LAYOUT PLAN.dwg | MGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



02 CULVER AT HARTER ENLARGEMENT
1:100



01 CULVER AT HURON ENLARGEMENT
1:100

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

LAYOUT ENLARGEMENT PLAN

NO.	REVISION	BY	APPR.	DATE

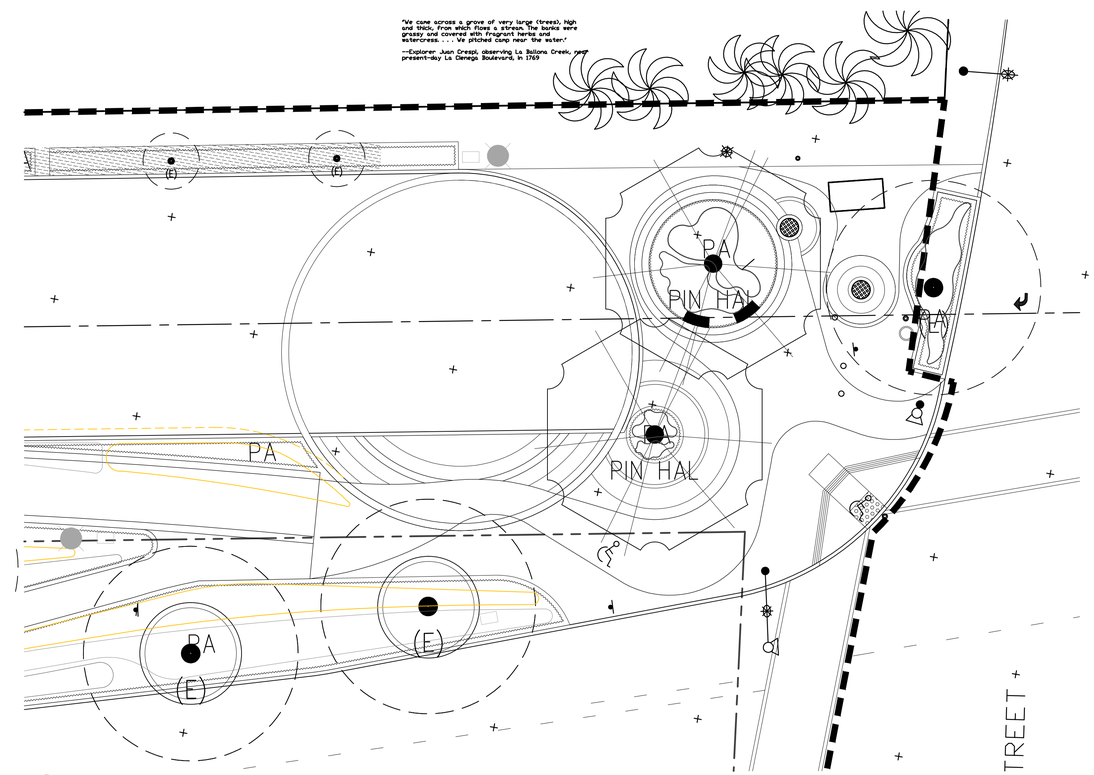
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L1.05
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets690\culver-widening project\drawings\graphics\AutoCAD\Sheets\L1.05-LAYOUT.dwg\ MGEPHARRIS\ PLAN (24.00 X 36.00 INCHES) | 8/24/2018



01 CULVER AT ELENDA ENLARGEMENT
1" = 10'

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

LAYOUT ENLARGEMENT PLAN

APPROVED BY CHARLES D. HERBERTSON

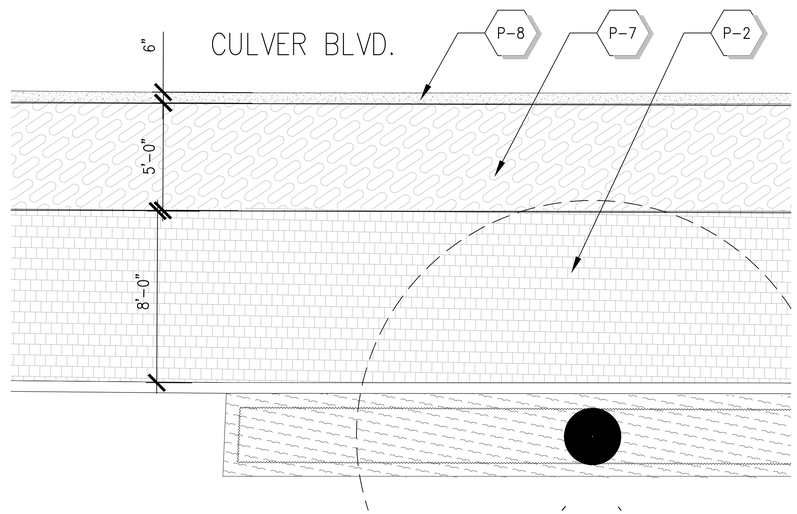
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L1.06
SHEET OF SHEETS

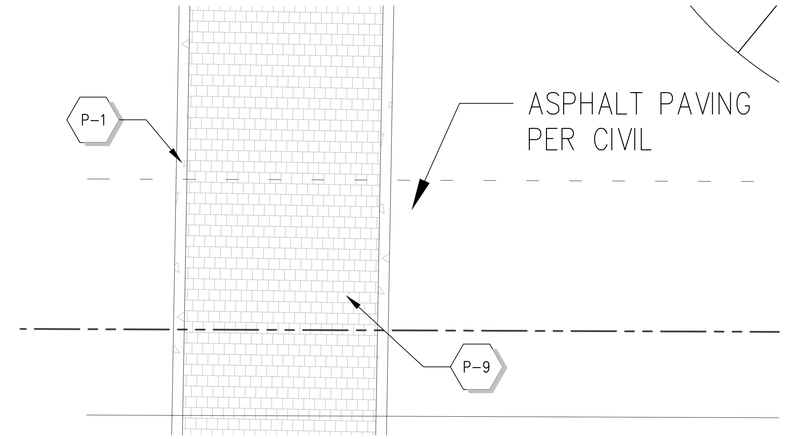
Bar Measures 1 inch

Copyright: Tetra Tech

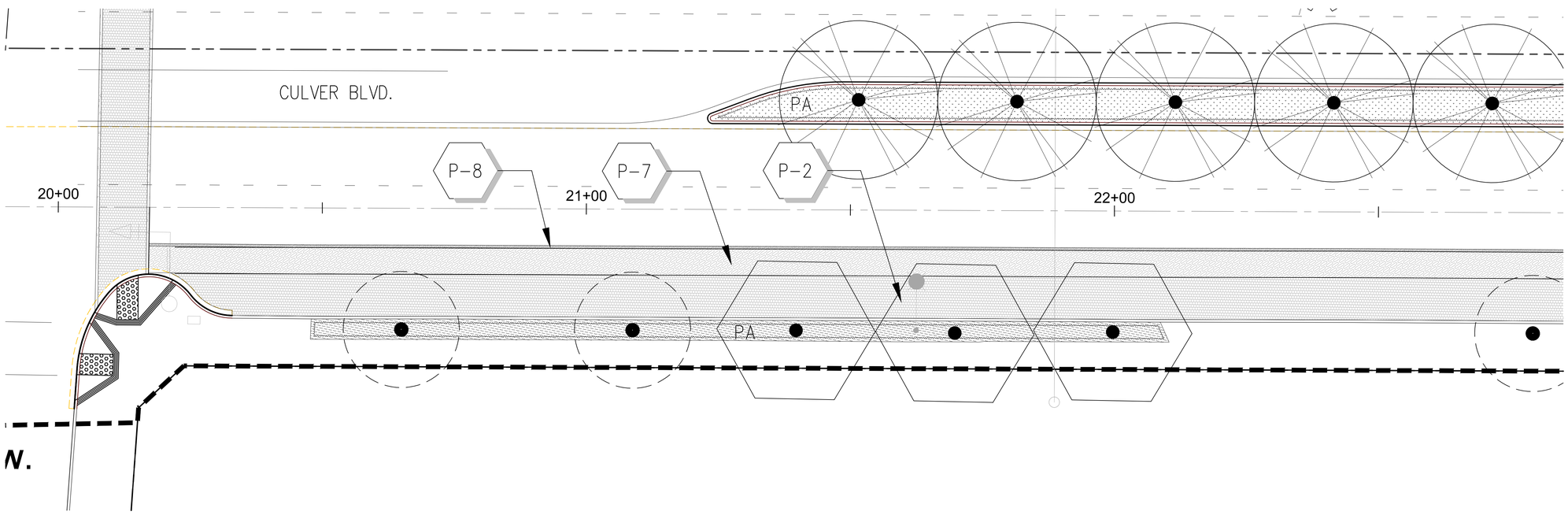
p:\TET\tets60ji\culver-widening\project4\drawings\graphics\AutoCAD\Sheets\L1.06_LAYOUT.DWG | LAYOUT: PLAN | MODEL: MGERHART | PAGESETUP: (24.00 X 36.00 INCHES) | 8/24/2018



03 STREET BUFFER PARKING – REPEAT
1:40



02 CROSSWALK
1:40



01 STREET BUFFER PARKING
3/32" = 1'-0"

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

LAYOUT ENLARGEMENT PLAN
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE
SHEET L1.07 SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TEL\texts60\c culver widening project\drawings\graphics\AutoCAD\Sheets\L1.07-LAYOUT ENLARGEMENT PLAN.dwg\MGER\HABT:(PABCHD:(24.00 X 36.00 INCHES) | 8/24/2018

GRADING NOTES

1. FOR EXISTING TOPOGRAPHY INCLUDING GRADES, UTILITIES, PROPERTY LINES, LIMITS OF ROADWAYS, CURBS AND GUTTERS, EXISTING TREES, ETC., REFER TO CIVIL ENGINEERING DRAWINGS.
2. FINISHED GRADES SHALL PROVIDE FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. SET FLOW LINES ACCURATELY AND PROVIDE A MINIMUM 2% AND A MAXIMUM 50% GRADIENT UNLESS OTHERWISE NOTED.
3. REFER TO CIVIL ENGINEERING DRAWINGS FOR GRADING AND DRAINAGE

GRADING LEGEND

S.D.	STEEL SLOT DRAIN
T.D.	STEEL SLOT DRAIN
G.B.	GRADE BREAK
	FLUSH BETWEEN SURFACES
	ALIGN EDGES
	PAVING AREA DRAIN –NDS DECORATIVE DRAIN
	PLANTING AREA DRAIN – NDS DECORATIVE DRAIN
	FOUNTAIN AREA DRAIN
X.XX%	SLOPE ON PAVING
X.XX%	SLOPE IN PLANTING
	SLOPE UNDER SURFACE
(FP 3.90)	EXISTING SPOT GRADE
FP 3.90	PROPOSED SPOT GRADE
FFE	FINISH FLOOR ELEVATION
FS	FINISH SURFACE
FG	FINISH GRADE
TS	TOP OF STEP
BS	BOTTOM OF STEP
HP	HIGH POINT
LP	LOW POINT
TC	TOP OF CURB
BC	BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL
TR	TOP OF RAMP
BR	BOTTOM OF RAMP

NOTES
– PLANS ONLY DENOTE TOPS OF WALLS. FOR FURTHER CLARIFICATION SEE WALL DETAILS
– PROVIDED FOR DESIGN INTENT INFORMATION ONLY. REFER TO PLANS DETAILS FOR CONSTRUCTION INFORMATION

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

GRADING LEGEND

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

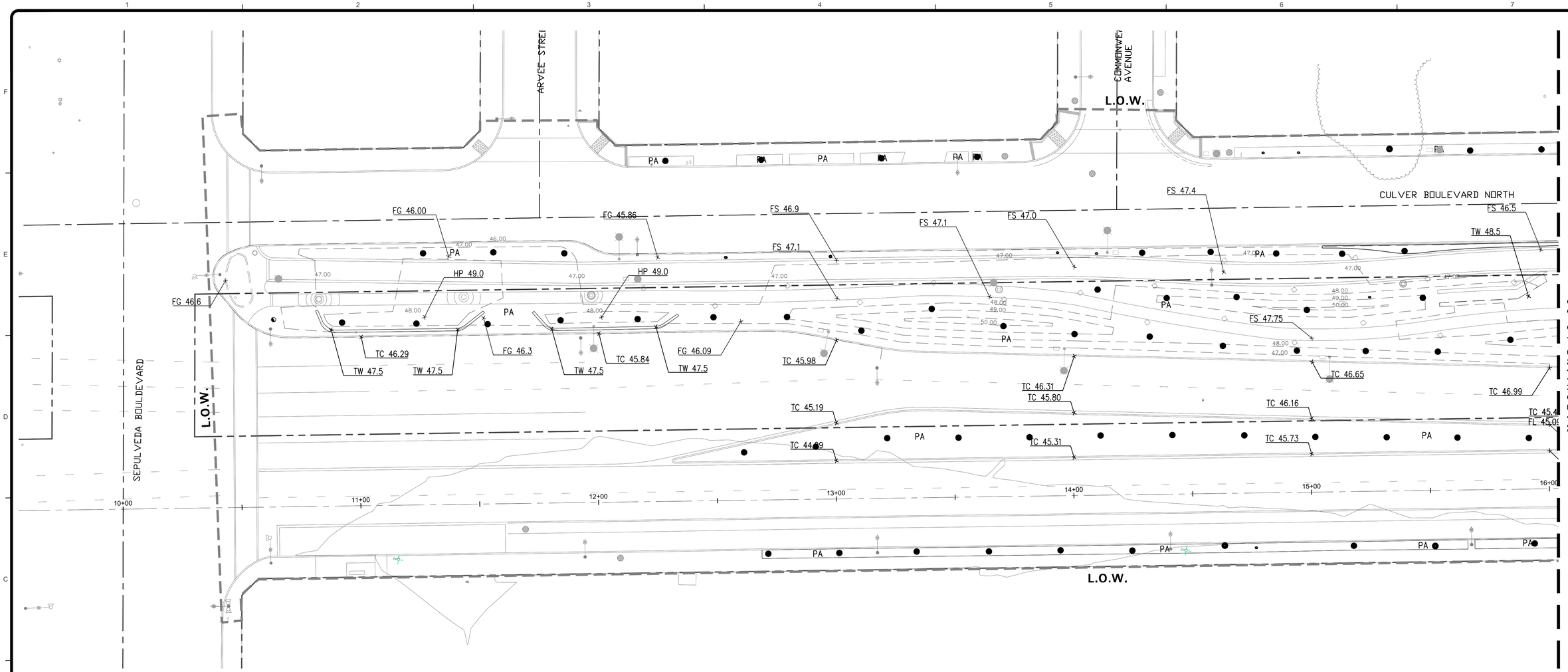
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET L2.00
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets60\c:culver-widening project\4-drawings\graphics\AutoCAD\Sheets\L2.00-GRADING LEGEND.dwg\ HRCHUS-ARCHD-T24-00.X 36.00 INCHES) | 8/24/2018



0 10 20

1" = 20'

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

GRADING AND DRAINAGE PLAN

APPROVED BY CHARLES D. HERBERTSON

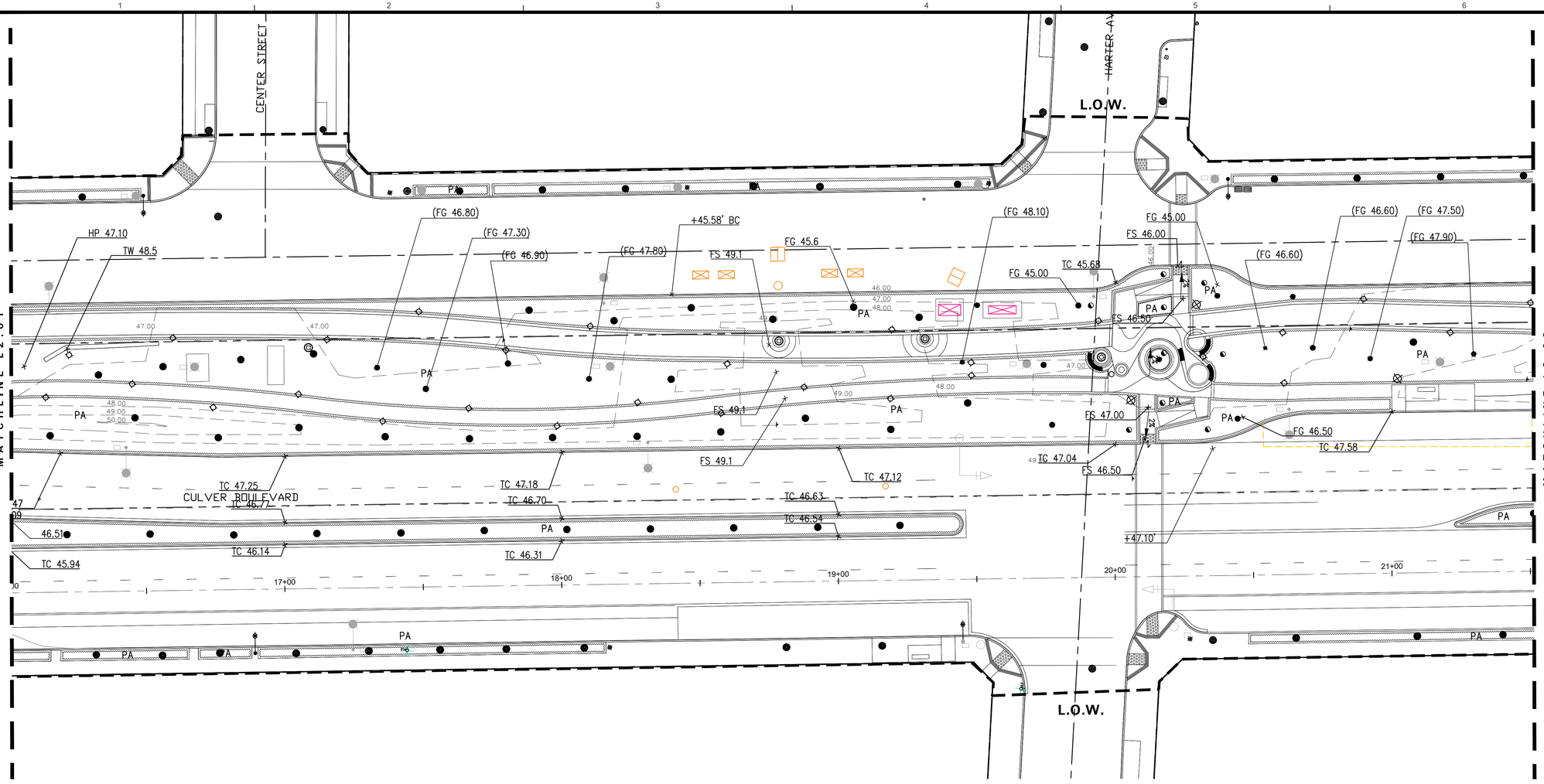
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L2.01
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801\culver widening project\4 drawings\graphics\AutoCAD\Sheets\L2.01 GRADING AND DRAINAGE PLAN.dwg | RICHIU | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



0 10 20

1" = 20'

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
	.			
	.			
	.			
	.			
	.			

GRADING AND DRAINAGE PLAN

APPROVED BY CHARLES D. HERBERTSON

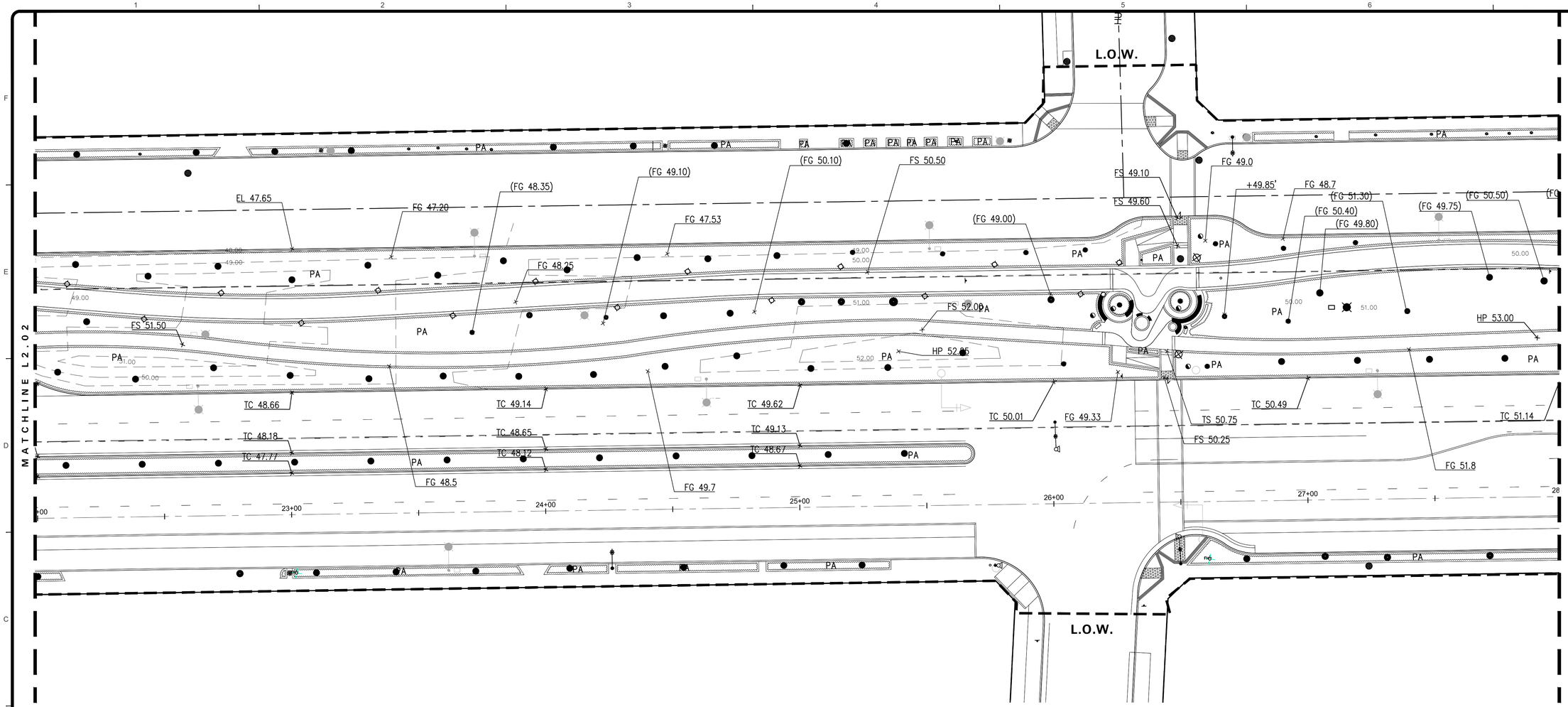
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L2.02
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets80\:culver-widening:project4:drawings:graphics\Autoc\ADIS\sheets\L2-02-GRADING-AND-DRAINAGE-PLAN.dwg\ LAYOUT: L2.02 DATE: 8/24/2018 TIME: 12:24:00 PM PLOT SCALE: 1:1 (24.00 X 36.00 INCHES) | 8/24/2018



0 100 200

1" = 200'

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

GRADING AND DRAINAGE PLAN

APPROVED BY CHARLES D. HERBERTSON

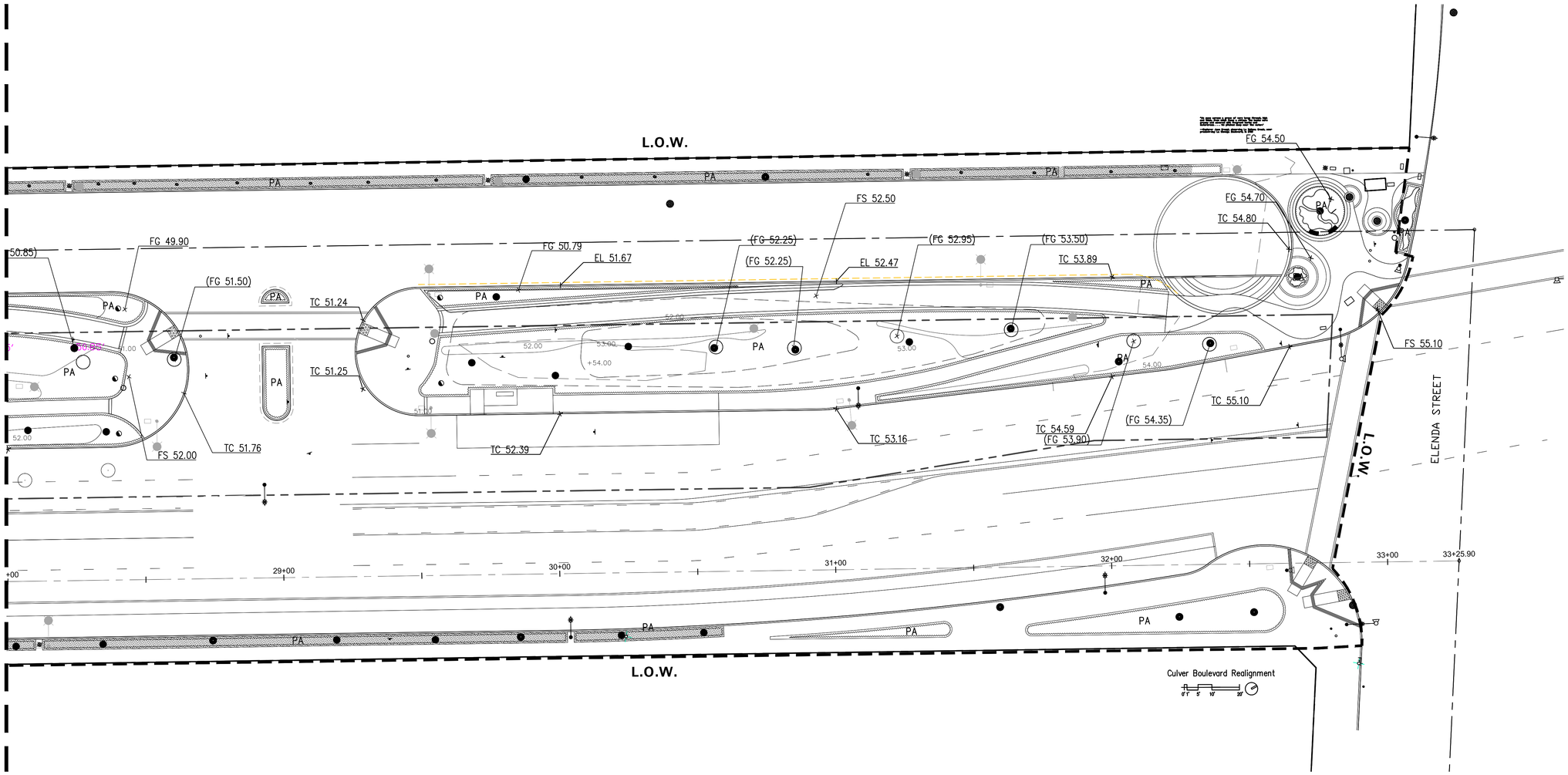
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L2.03
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TEA\tets801\culver-widening project\drawing graphics\Autocad\Sheets\L2-03-GRADING AND DRAINAGE PLANS.dwg | PLOTTED ON 8/24/2018 | 24.00 X 36.00 INCHES) | 8/24/2018



0 100 200

1" = 200'

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO. L2.04

NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

GRADING AND DRAINAGE PLAN

APPROVED BY CHARLES D. HERBERTSON

PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET L2.04 OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801\culver-widening\project4\drawings\graphics\AutoCAD\Sheets\L2.04_GRADING_AND_DRAINAGE_PLAN.dwg LAYOUT: ARCH D1 (24.00 X 36.00 INCHES) | 8/24/2018

PAVING LEGEND

SYMBOL	KEY	DESCRIPTION	MATERIAL	SUPPLIER	SIZE	COLOR	FINISH	REMARK	DETAIL
A B	P-1	CONCRETE P.I.P.	CONCRETE P.I.P.	–	–	A B	TOP CAST 15		
	P-2	STANDARD CONCRETE	CONCRETE P.I.P.	–	–	GREY	BROOM FINISH		
	P-3	PEDESTRIAN PATH	ORGANIC LOCK DECOMPOSED GRANITE	GAIL MATERIALS	–	TAN		INSTALLED PER SPEC	
	P-4	BIKE PATH	ASPHALT	–	–	GRAPHITE	ETCHED W/SPECIAL AGGREGATES		
	P-5	STEPS	COLOR CONCRETE PAVING, SAW CUT JOINTS	–	–	GREY	BROOM FINISH		
	P-6	TRUNCATED DOME PAVER	TACTILE CONCRETE UNIT PAVER	ACKERSTONE	12" X 12" X 80MM	GRAPHITE	SHOTBLASTED		
	P-7	VEHICULAR	COBBLESTONE	ACKERSTONE	6"X6"X80MM	–	GRIND FINISH		
	P-8	VEHICULAR	COBBLESTONE	ACKERSTONE	6"X6"X80MM	–	GRIND FINISH		
	P-9	VEHICULAR	COBBLESTONE	ACKERSTONE	6"X6"X80MM	–	GRIND FINISH		

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

PAVING LEGEND

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET L3.00 SHEET OF SHEETS

DIGALERT
DIAL TOLL FREE 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

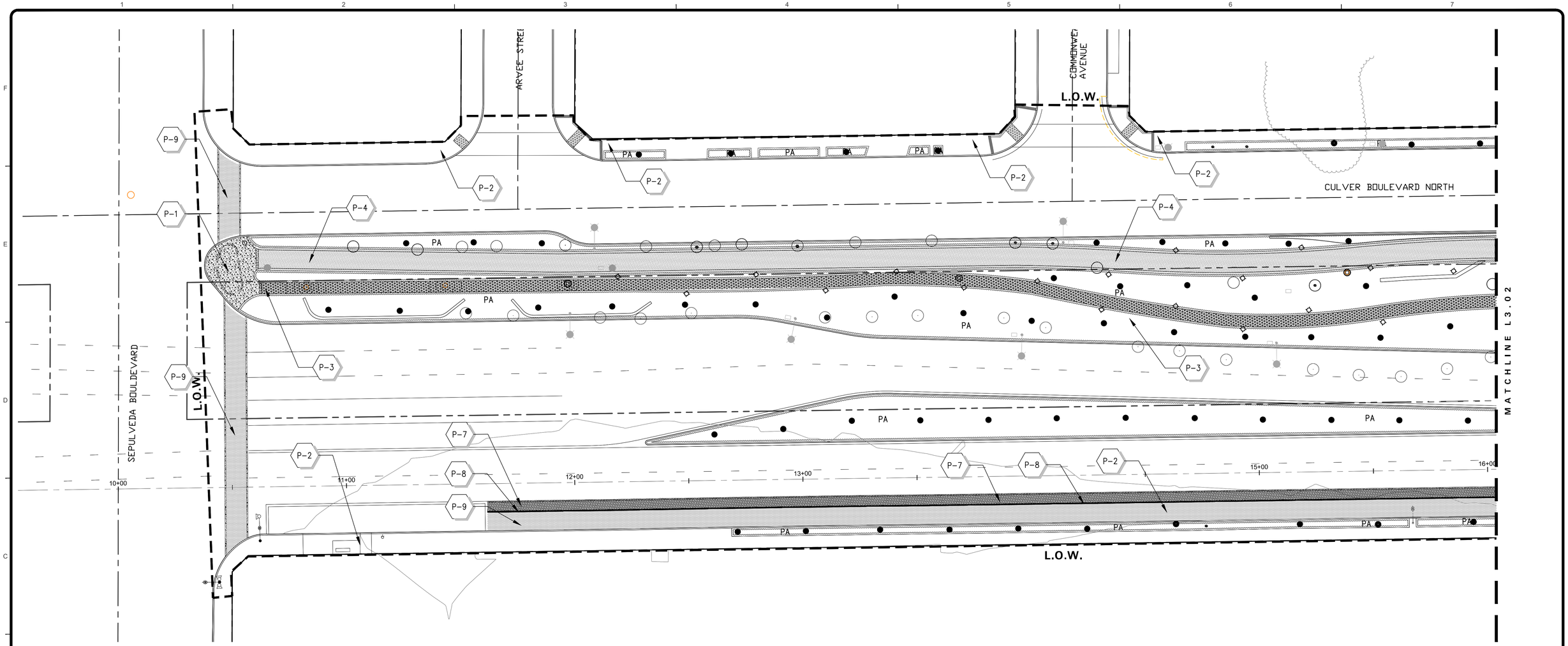
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

Copyright: Tetra Tech

Bar Measures 1 inch

p:\TET\tets60\i_culver-widening-project\4-drawings\graphics\AutoCAD\Sheets\L3.00_PAVING-LEGEND.dwg [-]MGERHART | ARGH-D (24.00 X 36.00 INCHES) | 8/24/2018



SEE L3.00 FOR COMPLETE PAVING LEGEND & NOTES

0 10 20
1" = 20'

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
	.			
	.			
	.			
	.			
	.			

PAVING PLAN

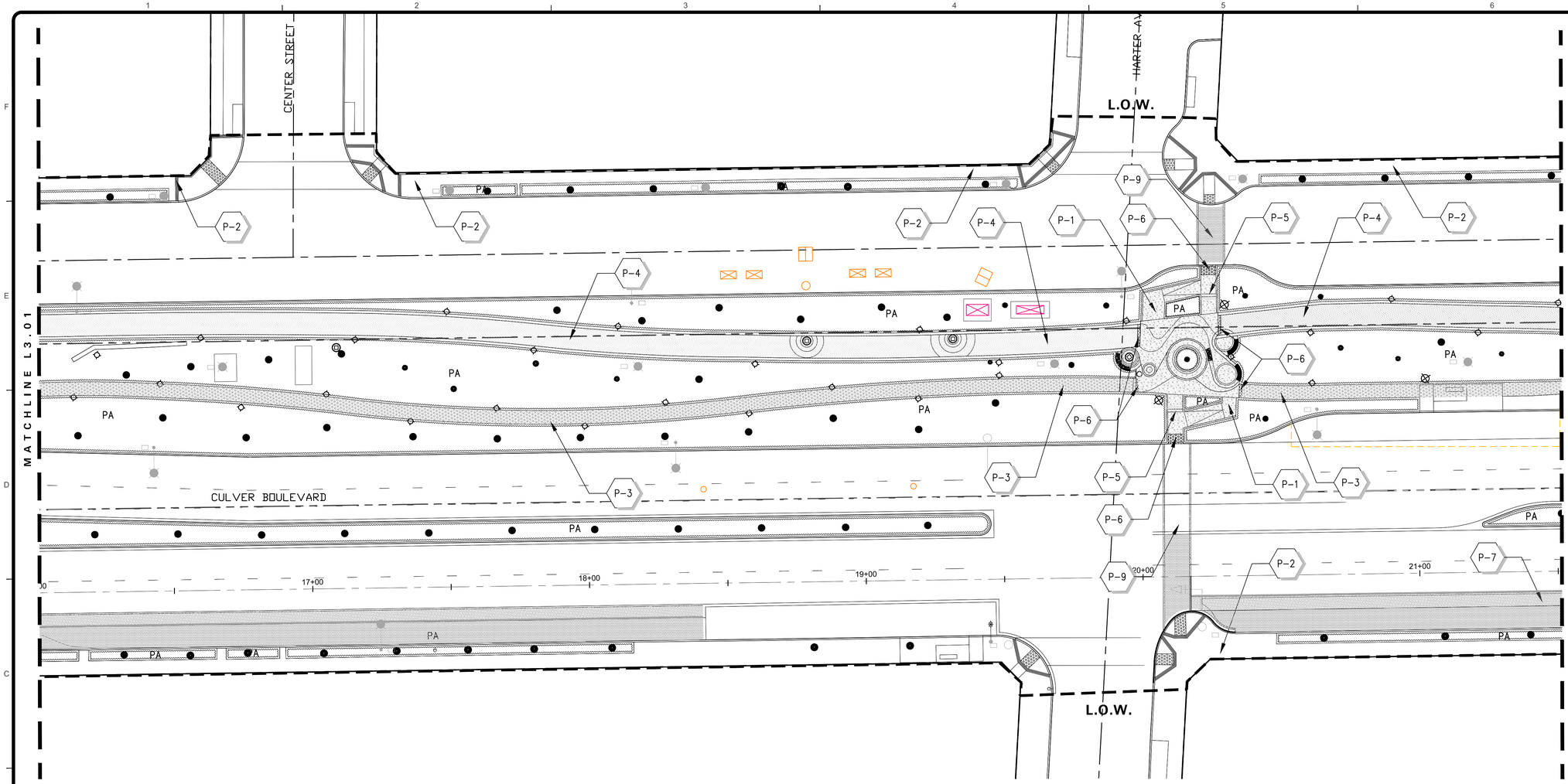
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L3.01
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801-culver-widening-project\4-drawings\graphics\AutoCAD\Sheets\L3.01-PAVING-PLAN.dwg | MGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



SEE L3.00 FOR COMPLETE PAVING LEGEND & NOTES

0 10 20
1" = 20'

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

PAVING PLAN

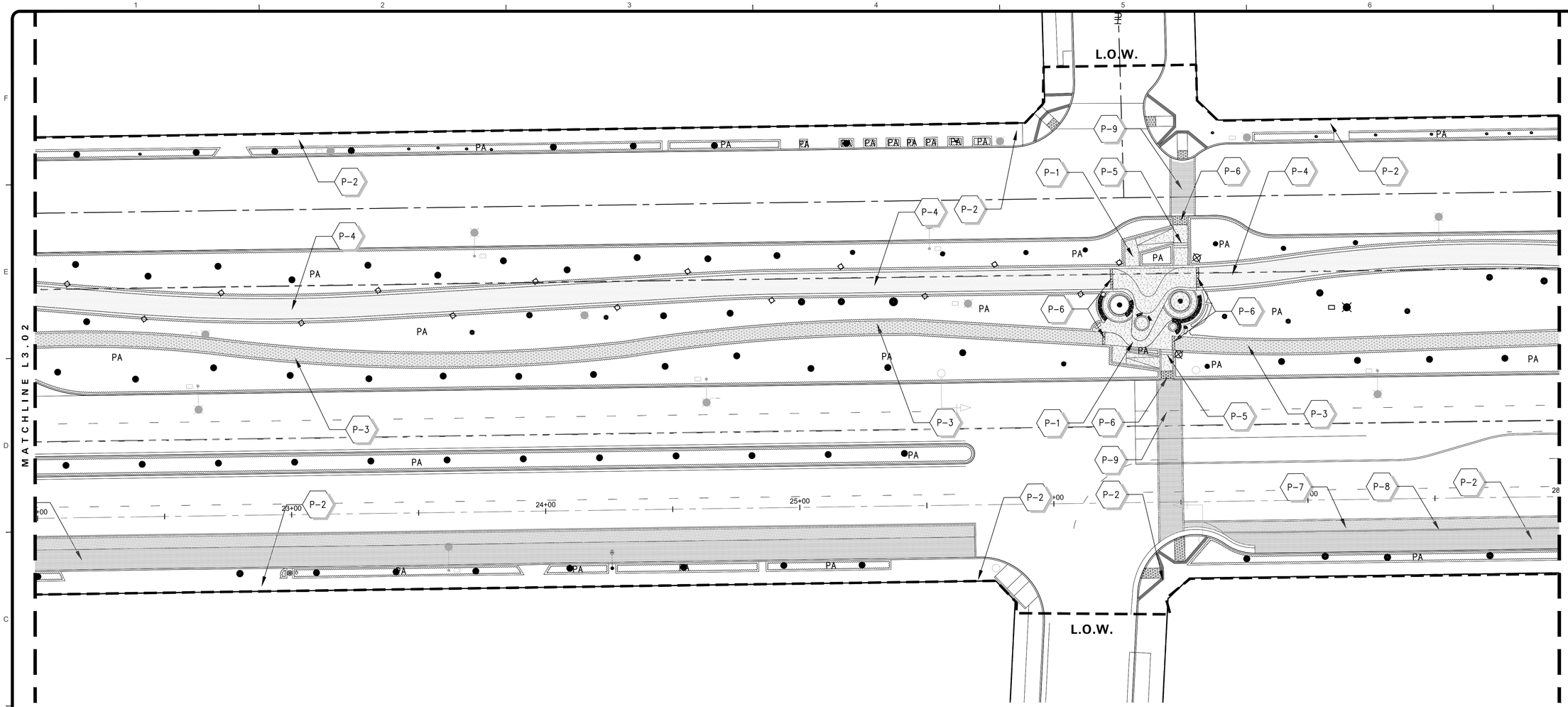
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L3.02
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801\culver widening project\4 drawings\graphics\AutoCAD\Sheets\L3.02 PAVING PLAN.dwg | CADUSER2 | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



SEE L3.00 FOR COMPLETE PAVING LEGEND & NOTES

0 100 200

1" = 200'

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

PAVING PLAN

APPROVED BY CHARLES D. HERBERTSON

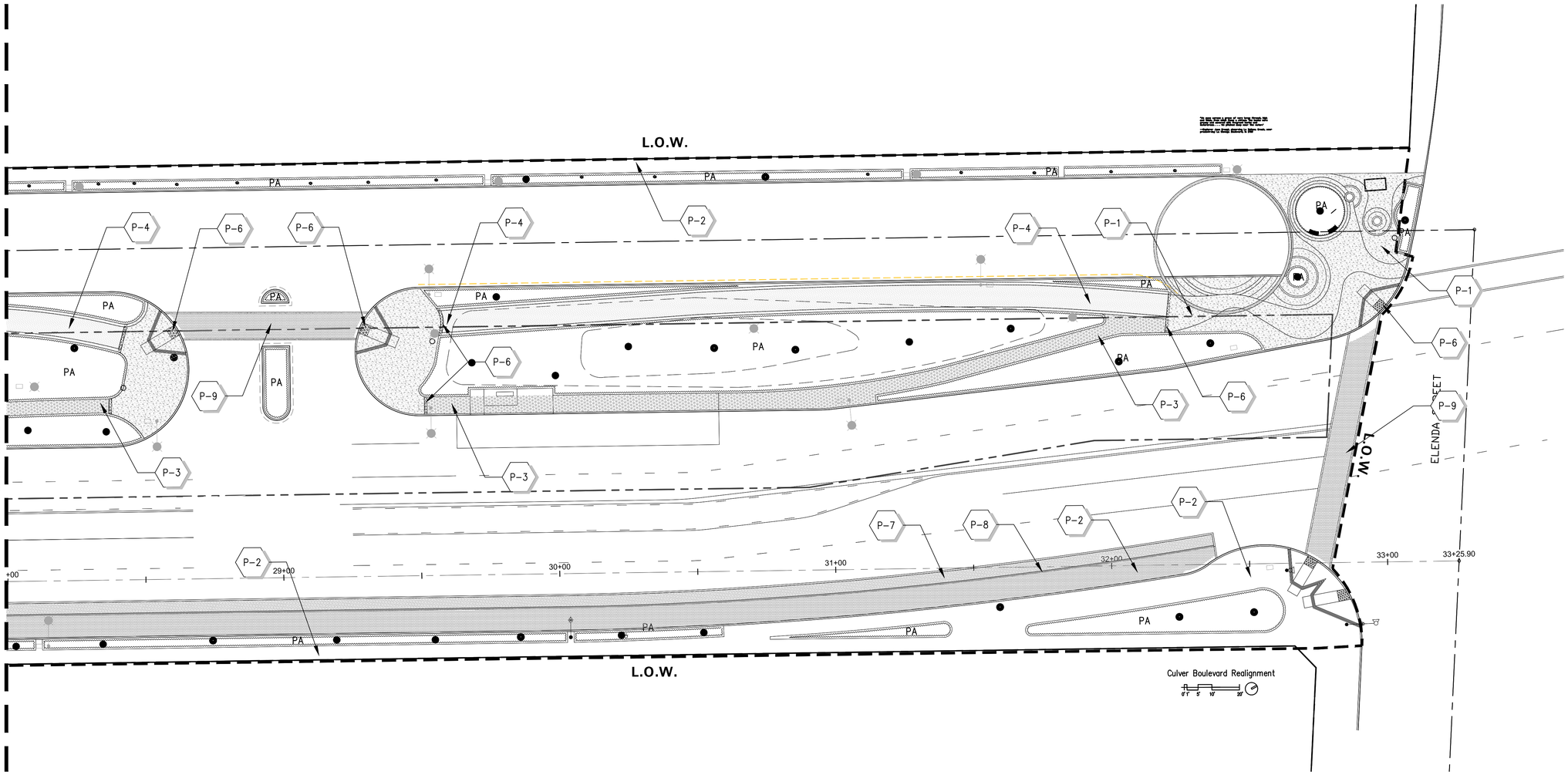
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L3.03
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801\culver widening project\4 drawings\graphics\AutoCAD\Sheets\L3.03 PAVING PLAN.dwg | CADUSER2 | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO. L3.04

NO.	REVISION	BY	APPR.	DATE

PAVING PLAN

APPROVED BY CHARLES D. HERBERTSON

PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L3.04
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801\culver widening project\4 drawings\graphics\AutoCAD\Sheets\L3.04 PAVING PLAN.dwg | CADUSER2 | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018

PLANTING NOTES

1. AGRONOMIC SOIL FERTILITY TESTING: CONTRACTOR SHALL PERFORM REQUIRED AGRONOMIC SOIL FERTILITY TESTING AND PERCOLATION TESTING OF THE NATIVE SITE SOILS PRIOR TO EXTERIOR PLANTING INSTALLATION. FERTILITY TESTING SHALL INCLUDE RECOMMENDATIONS FOR PREPARATION OF THE SITE'S SURFACE SOILS, AND FOR PREPARATION OF THE AMENDED SOIL BACKFILL FOR LANDSCAPE PLANTING. REFER TO SOIL PREPARATION SPECIFICATIONS FOR REQUIREMENTS. WHERE NATIVE SITE SOIL IS INSUFFICIENT, OR AS DIRECTED UNDER THE SPECIFICATIONS, PROVIDE APPROVED IMPORTED AMENDED TOPSOIL FILL IN QUANTITY AS REQUIRED. REFER TO SPECIFICATIONS.
2. FINISH GRADING: FINISH GRADING OF LANDSCAPE PLANTING AREAS SHALL BE REVIEWED AND APPROVED IN THE FIELD BY LANDSCAPE ARCHITECT FOLLOWING INSTALLATION AND BACKFILL OF SUB-SURFACE IRRIGATION SYSTEM COMPONENTS, REQUIRED SURFACE SOIL PREPARATION, AND PRIOR TO INSTALLATION OF EXTERIOR PLANTS. REMOVE ALL TRASH, ROCKS, AND CONSTRUCTION DEBRIS PRIOR TO PLANT MATERIAL INSTALLATION. SMOOTH, EVEN, CONSISTENT SURFACE GRADIENT TRANSITIONS IN ALL PLANTING AREAS IS THE DESIGN INTENT. AS REQUIRED, PROVIDE ADDITIONAL FILL FOR LOW SPOTS AND SHAVE SURFACE AREAS ACCORDINGLY TO ELIMINATE HIGH SPOTS.
3. FINISH GRADING ELEVATIONS: PRIOR TO PLANTING INSTALLATION, CONTRACTOR SHALL COMPACT THE FINISHED GRADIENTS OF DESIGNATED PLANTING AREAS TO ESTABLISH A FIRM BUT NOT OVERLY COMPACTED FINISHED SOIL LEVEL THAT IS HORTICULTURALLY-ACCEPTABLE FOR LANDSCAPE PLANTING THAT WILL NOT PIT, RUT, OR DEPRESS UNDER FOOT-TRAFFIC DURING PLANTING OPERATIONS. CONTRACTOR SHALL VERIFY WITH THE LANDSCAPE ARCHITECT THAT FINISHED GRADING ELEVATIONS OF SHRUB OR GROUNDCOVER AREAS ARE SET AT 2" BELOW THE FINISHED SURFACE ELEVATION OF ADJOINING WALKS, PAVEMENTS, ETC. (WHICH ALLOW FOR MULCH TO BE APPLIED ON GRADIENTS). IN AREAS WHERE SODDED TURF GRASS APPLICATIONS ARE PROVIDED, FINISHED GRADE ELEVATIONS SHALL BE SET ONE-INCH (1") BELOW THE FINISHED SURFACE ELEVATION OF ADJOINING WALKS, PAVEMENTS, ETC. THE DESIGN INTENT IS TO PROVIDE A CONSISTENT, FIRM, EVEN SOIL GRADIENT ALONG ALL ADJOINING PAVEMENT SURFACE AREAS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
4. EXCESS SOIL: ANY EXCESS SOIL THAT IS GENERATED BY EXCAVATIONS OR LANDSCAPE GRADING OPERATIONS SHALL BE REMOVED AND LEGALLY DISPOSED OF BY CONTRACTOR.
5. MODIFICATIONS: EXACT LOCATIONS OF PLANT MATERIALS SHALL BE FLAGGED/STAKED, REVIEWED, AND APPROVED BY LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION OF PLANT MATERIALS. ORIENT PLANT MATERIALS TO SUIT FIELD CONDITIONS OR PER DESIGNER PREFERENCE. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE MODIFICATIONS TO PLANT MATERIAL LAYOUT, LOCATION, OR ORIENTATION AT ANY TIME DURING THE CONTRACT PERIOD. CHANGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. CONFLICTS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE LANDSCAPE ARCHITECT OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION OF PLANT MATERIALS AS SHOWN ON THE DRAWINGS.
7. PLANTING LAYOUT: UNLESS OTHERWISE NOTED ON THE DRAWINGS, PLANT MATERIALS SHALL BE PROPERLY ALIGNED AND EQUALLY-SPACED. REFER TO PLANTING DETAILS FOR ALIGNMENT AND SPACING REQUIREMENTS. THE DESIGN INTENT IS TO PROVIDE DESIGNATED PLANTING AREAS THAT ARE FULL, DENSE, AND COMPLETE WITH NO VOIDS DUE TO MISSING PLANT MATERIALS. INSTALL ALL TREES A MINIMUM OF FOUR (4) FEET FROM BACK OF CURB, EDGE OF WALL OR PAVING.
8. UTILITY, IRRIGATION, AND PLANT MATERIAL CONFLICTS: EVERY EFFORT HAS BEEN MADE TO AVOID CONFLICTS BETWEEN THE PLANT MATERIAL LOCATIONS AND LOCATIONS OF MAJOR SITE UTILITIES OR IRRIGATION SYSTEM COMPONENTS. CONTRACTOR IS ADVISED THAT LOCATIONS OF PLANT MATERIALS AS SHOWN ON THE DRAWINGS TAKES PRECEDENCE OVER LOCATIONS OF ANY IRRIGATION SYSTEM COMPONENT (PIPING, VALVES, BACKFLOWS, ETC.). NOTE THAT IRRIGATION SYSTEM DRAWINGS ARE DIAGRAMMATIC. SHOULD CONFLICTS BECOME EVIDENT BETWEEN THE PLANTING DESIGN CONCEPT (I.E. TREE LOCATIONS, HEDGES, SHRUB MASSINGS, ETC.) AND THE IRRIGATION SYSTEM COMPONENTS, CONTRACTOR SHALL FIELD-ADJUST THE LOCATION OF IRRIGATION SYSTEM COMPONENTS ACCORDINGLY, AS REQUIRED, TO ELIMINATE ANY CONFLICTS WITH THE DESIGN INTENT OF PLANT MATERIAL LOCATIONS, AS DIRECTED BY LANDSCAPE ARCHITECT. ANY REQUIRED CHANGES SHALL BE PERFORMED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
9. CONTRACT GROWING REQUIREMENTS: WHEN REQUIRED BY THE SPECIFICATIONS, AND WITHIN 30 DAYS AFTER AWARD OF BID, CONTRACTOR SHALL ARRANGE FOR AND SECURE VIA CONTRACT-GROWING AGREEMENTS WITH NURSERY SUPPLIERS ALL PLANT MATERIALS AS SPECIFIED FOR THIS PROJECT. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
10. QUALITY: THE CONTRACTOR SHALL FURNISH AND INSTALL ONLY SUPERIOR-QUALITY PREMIUM-GRADE PLANT MATERIALS FOR THIS PROJECT. FULL IN CONTAINER, SYMMETRICAL, WELL-BALANCED, DENSELY FOLIATED, WELL-ROOTED, VIGOR IN GROWTH, PEST AND DISEASE-FREE PLANT MATERIALS MEETING THE MINIMUM SIZES INDICATED FOR EACH SPECIES IS THE DESIGN INTENT. ANY PLANT MATERIALS FOUND TO NOT CONFORMING TO THIS INTENT WILL BE REJECTED BY LANDSCAPE ARCHITECT AND SHALL BE REMOVED IMMEDIATELY FROM THE SITE.
11. MATCHING STOCK: PROVIDE MATCHING FORMS AND SIZES FOR ALL PLANT MATERIALS WITHIN EACH SPECIES, PLANT TYPE, AND SIZE DESIGNATED ON THE DRAWINGS. ALIGN TREES ACROSS WALKS. ADJUST SPACING AS NECESSARY, SUBJECT TO REVIEW BY THE LANDSCAPE ARCHITECT.
12. SELECTION AND TAGGING OF PLANT MATERIAL STOCK: ONCE NURSERY SOURCES ARE IDENTIFIED, THE CONTRACTOR SHALL ARRANGE FOR FIELD-SELECTION AND TAGGING OF PLANT MATERIALS BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY. CONTRACTOR SHALL ARRANGE FOR REVIEW AND APPROVAL OF ALL PLANT MATERIALS DELIVERED TO THE SITE AND PRIOR TO INSTALLATION. SELECTION AND TAGGING OF PLANT MATERIALS AT THE NURSERY OR PLACE OF GROWTH DOES NOT CANCEL THE RIGHT OF LANDSCAPE ARCHITECT TO REJECT PLANT MATERIALS THAT ARE DELIVERED AT THE PROJECT SITE IF DAMAGED OR UNACCEPTABLE CONDITIONS ARE FOUND THAT WERE NOT DETECTED AT THE NURSERY, PLACE OF GROWTH, OR DURING THE SUBMITTAL PROCESS.
13. INSTALLER QUALIFICATIONS: EXECUTION OF WORK HEREIN SHALL BE PERFORMED BY A VALID CONTRACTOR LICENSE FOR THE PERFORMED WO5RK SCOPE.
14. PLANT QUANTITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND AREA REQUIREMENTS AS INDICATED ON THE DRAWINGS. PLANT MATERIAL QUANTITIES, IF PROVIDED, ARE FOR OWNER'S INFORMATION ONLY. PLANT SPACING IS AS INDICATED ON THE PLANT LEGEND. IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE NECESSARY QUANTITY OF PLANT MATERIALS NEEDED TO PROVIDE FULL COVERAGE OF PLANTING AREAS AS INDICATED ON THE DRAWINGS, AT THE SPECIFIED SPACING AND PATTERN LAYOUT REQUIREMENTS.
15. HANDLING OF PLANT MATERIALS: ONLY HANDLE PLANT MATERIALS BY HORTICULURALLY-ACCEPTED PRACTICES. FOR CONTAINER-GROWN STOCK, ONLY HANDLE PLANT MATERIALS BY THEIR CONTAINERS. DO NOT HANDLE PLANT MATERIALS BY THEIR TRUNKS OR STEMS. PROTECT PLANT MATERIALS FROM DAMAGE DURING MOVING OR TRANSPORT.
16. TREE STAKING/GUYING: TREES SHALL BE SET AND MAINTAINED IN AN UPRIGHT VERTICAL ORIENTATION THROUGHOUT THE DURATION OF THE CONTRACT. PROVIDE STAKING OR GUYING MATERIALS, AS REQUIRED, THROUGH THE DIRECTION OF THE LANDSCAPE ARCHITECT. WHEN PROVIDED, ADJUST STAKING OR GUYING MATERIALS ACCORDINGLY, AS REQUIRED, TO MEET THIS STANDARD, THROUGHOUT THE DURATION OF THE LANDSCAPE ESTABLISHMENT PERIOD.
17. PRUNING OF PLANT MATERIALS: CONTRACTOR SHALL ONLY PRUNE INSTALLED PLANT MATERIALS AT THE WRITTEN DIRECTION OF LANDSCAPE ARCHITECT. PLANT MATERIALS THAT HAVE BEEN PRUNED, TOPPED, THINNED, OR LACED PRIOR TO OR WITHOUT THIS DIRECTION, BY EVIDENCE OF FRESH CUTS, SHALL BE SUBJECT TO REJECTION BY LANDSCAPE ARCHITECT. ALL PRUNING OPERATIONS SHALL BE UNDER THE DIRECT PRESENCE OF AN APPROVED CERTIFIED ARBORIST, AND WORK PERFORMED THROUGH ANSI A300 PRUNING REQUIREMENTS.
18. ROOT CONTROL BARRIERS: FURNISH AND INSTALL ROOT CONTROL BARRIERS FOR ALL TREES LOCATED WITHIN 5'-0" OF PAVING, WALLS, STEPS, ETC.. PROVIDE A MINIMUM ROOT BARRIER LENGTH OF 10'-0' EXTENDING FROM THE CENTER OF THE TRUNK OUTWARDS AND ALONG THE HARDSCAPE ELEMENT BEING PROTECTED. REFER TO DRAWINGS FOR LAYOUT DIAGRAM. TYPE, SIZE, AND INSTALLATION REQUIREMENTS PER THE SPECIFICATIONS. EXACT PLACEMENT OF METAL HEADERS TO BE REVIEWED BY LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION. PROVIDE AN ALLOWANCE OF 5% OF THE TOTAL LINEAL FOOTAGE OF METAL HEADER TO BE FURNISHED AND INSTALLED DURING PROGRESS OF WORK AS MAY BE DIRECTED BY THE LANDSCAPE ARCHITECT, IN ADDITION TO ALL HEADERS INDICATED ON DRAWINGS.
19. IRRIGATION: PLANT MATERIALS SHALL BE THOROUGHLY IRRIGATED IMMEDIATELY AFTER PLANTING. MANUALLY IRRIGATE OR ACTIVATE IRRIGATION SYSTEMS NECESSARY TO APPLY SUFFICIENT WATER REQUIRED TO ADEQUATELY SUSTAIN VEGETATION ONCE INSTALLED. FORM 30" WATERING BASIN AROUND ALL TREES NOT INSTALLED IN LAWN OR PAVED AREAS. FILL BASIN WITH 1-1/2 INCH LAYER OF MULCH. HOLD GRAVEL MULCH AWAY FROM TRUNK OF TREE.
20. CONDITION OF PLANT MATERIALS: CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL INSTALLED PLANT MATERIALS IN A HEALTHY, THRIVING, VIGOROUS, PEST AND DISEASE-FREE CONDITION THROUGHOUT INSTALLATION AND DURING THE SPECIFIED LANDSCAPE ESTABLISHMENT PERIOD. ANY PLANT MATERIALS FOUND TO BE MISSING, DEAD, DYING, BROKEN, DISEASED, OR OTHERWISE DAMAGED DURING THE DURATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED ACCORDINGLY WITH ACCEPTABLE NURSERY STOCK MEETING THE SAME SPECIFIED SPECIES, VARIETY, SIZE, AND QUALITY.
21. EXISTING VEGETATION: AS APPLICABLE, EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE PROTECTED IN-PLACE UNLESS OTHERWISE NOTED, PER SPECIFICATION REQUIREMENTS. ANY DAMAGE TO EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE REPLACED BY CONTRACTOR AT THE SAME SIZE OF THE DAMAGED MATERIAL, AT NO ADDITIONAL COST TO OWNER.
22. LANDSCAPE ESTABLISHMENT PERIOD: FOLLOWING SUBSTANTIAL COMPLETION, FOR THE SPECIFIED DURATION INDICATED IN THE SPECIFICATIONS, CONTRACTOR SHALL PERFORM ALL NECESSARY MAINTENANCE REQUIREMENTS FOR VIABLE ESTABLISHMENT OF LANDSCAPE PLANTING AND OTHER INSTALLED EXTERIOR IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, FULLY-OPERATIONAL AND FUNCTIONING IRRIGATION SYSTEM, TRASH REMOVAL, WEED ABATEMENT, PEST AND DISEASE CONTROL, REMEDIAL GRADING, EROSION CONTROL, MULCH DRESSINGS, PAVEMENT AND SURFACE CLEANING, FREE-FLOW DRAINAGE, OR OTHER FUNCTIONS.

PLANTING SCHEDULE

SYMBOL	ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	SIZE	REMARKS/COMMENTS	DETAIL(S)
TREES								
		EXISTING TREE (PROTECT IN PLACE)	EXISTING TREE TO REMAIN	N/A	N/A	N/A	PROTECT IN PLACE. DO NOT COMPACT OR DISTURB SOIL IN DRIP-LINE. DO NOT PRUNE WITHOUT DIRECTION FROM LANDSCAPE ARCHITECT.	
	PIN HAL	PINUS HALEPENSIS	ALEPPO PINE	48" BOX (STD.)	REFER TO PLANTING PLAN	10'-12' HEIGHT 5'-7' SPREAD	FULL, DENSE GROWTH, PREMIUM GRADE, SPECIMEN QUALITY, SYMMETRICAL, WELL- ROOTED.	
	CED DEO	CEDRUS DEODAR	DEODAR CEDAR	48" BOX (STD.)	AS NOTED ON PLAN	20'-25' HEIGHT 15'-20' SPREAD	FULL, DENSE GROWTH, PREMIUM GRADE, SPECIMEN QUALITY, SYMMETRICAL, WELL- ROOTED.	
	CER OCC	CERCIS OCCIDENTALIS	WESTERN REDBUD	36" BOX (STD.)	REFER TO PLANTING PLAN	8'-10' HEIGHT 5'-7' SPREAD	MULTI-HEAD, FULL, DENSE GROWTH, PREMIUM GRADE, SPECIMEN QUALITY, SYMMETRICAL, WELL-ROOTED.	
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	36" BOX (STD.)	REFER TO PLANTING PLAN	15'-20' HEIGHT 15'-20' SPREAD	FULL, DENSE GROWTH, PREMIUM GRADE, SPECIMEN QUALITY, SYMMETRICAL, WELL- ROOTED.	
	CER PAR	CERCIDIUM PARKINSONIA	PALO VERDE "DESERT MUSEUM"	36" BOX (STD.)	REFER TO PLANTING PLAN	10'-12' HEIGHT 5'-7' SPREAD	FULL, DENSE GROWTH, PREMIUM GRADE, SPECIMEN QUALITY, SYMMETRICAL, WELL- ROOTED. PER BIOFILTERRA	

SYMBOL	ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	BLOOM/COLOR	REMARKS/COMMENTS	DETAIL(S)
SHRUBS AND GRASSES								
		NATIVE PLANTING		1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING / BROWN	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	
		POLLINATOR		1 GALLON	12" O.C. TRIANGULAR SPACING	--	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	
		BUFFER PLANTING		1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	
		BIOSWALE		1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	
		PARKWAY		1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	

NOT FOR CONSTRUCTION

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
	.			
	.			
	.			
	.			
	.			

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

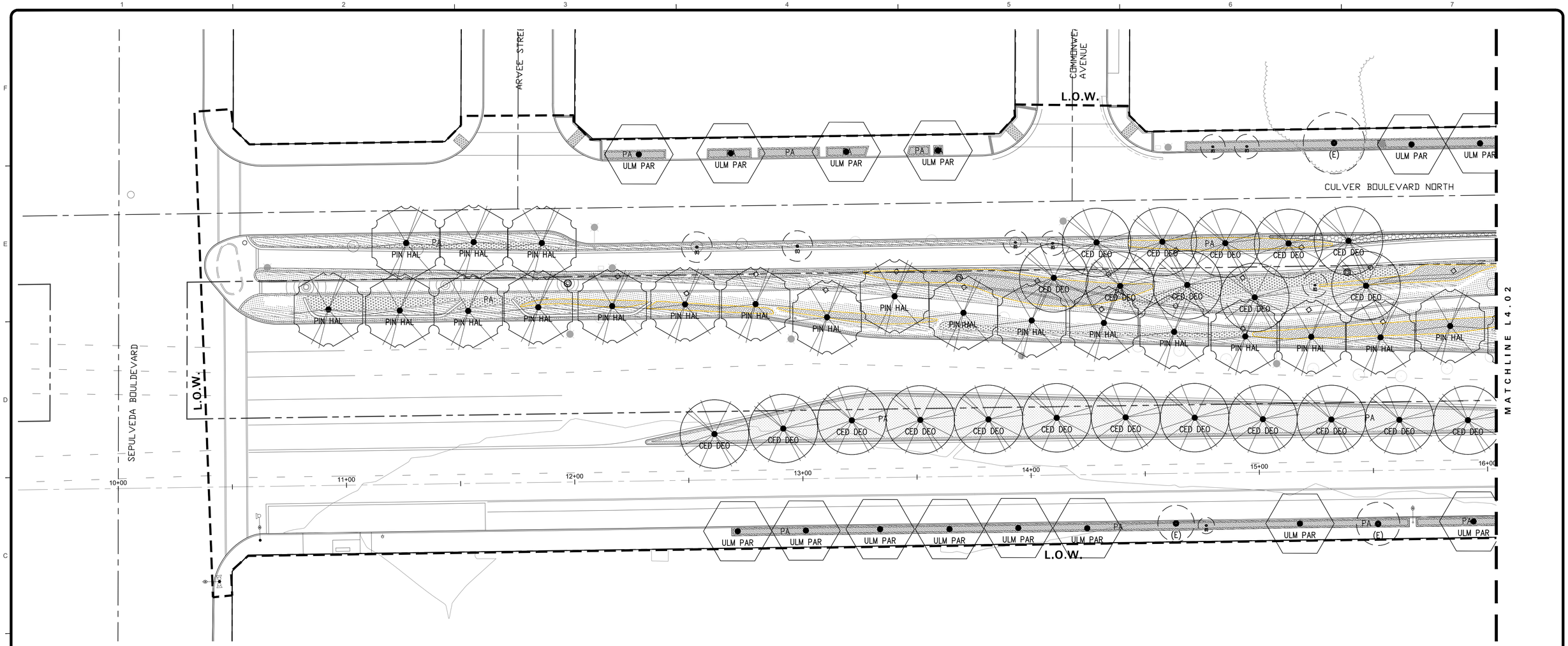
CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

PLANTING LEGEND

APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L4.00
SHEET OF SHEETS

Copyright: Tetra Tech
Bar Measures 1 inch
p:\TET\tets801.culver widening project\4 drawings\graphics\AutoCAD\Sheets\L4.00 PLANTING LEGEND.dwg | RCHL | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



0 ½" 1"
1'-0" = 1'-0"

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

PLANTING PLAN

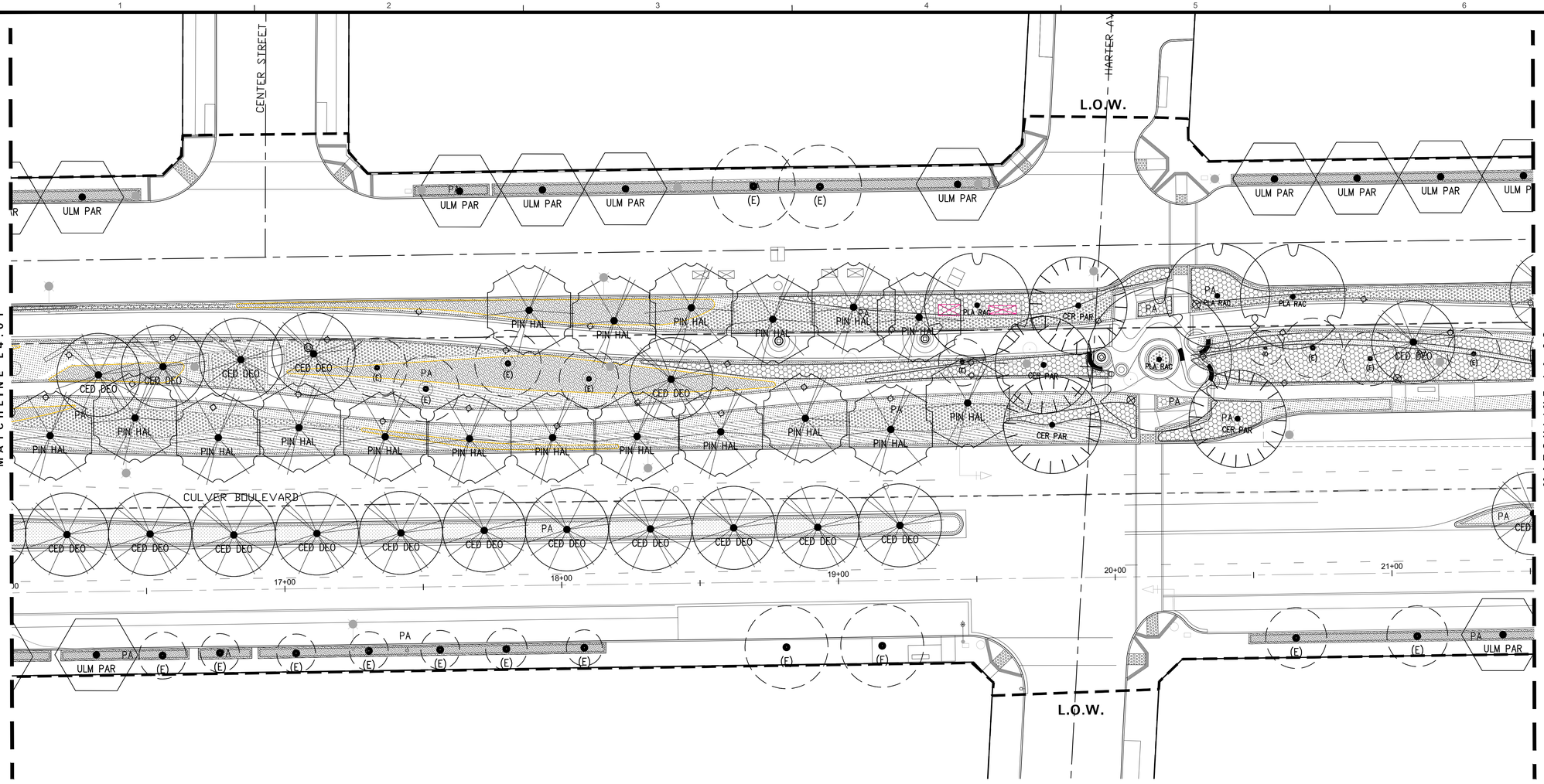
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L4.01
SHEET OF SHEETS

Copyright: Tetra Tech

Bar Measures 1 inch

p:\TETRATECH\03culver widening project\drawing graphics\AutoCAD\Sheets\L4.01_PLANTING PLAN.dwg, PLMGSBHART, ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



0 ½" 1"
1'-0" = 1'-0"

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

PLANTING PLAN

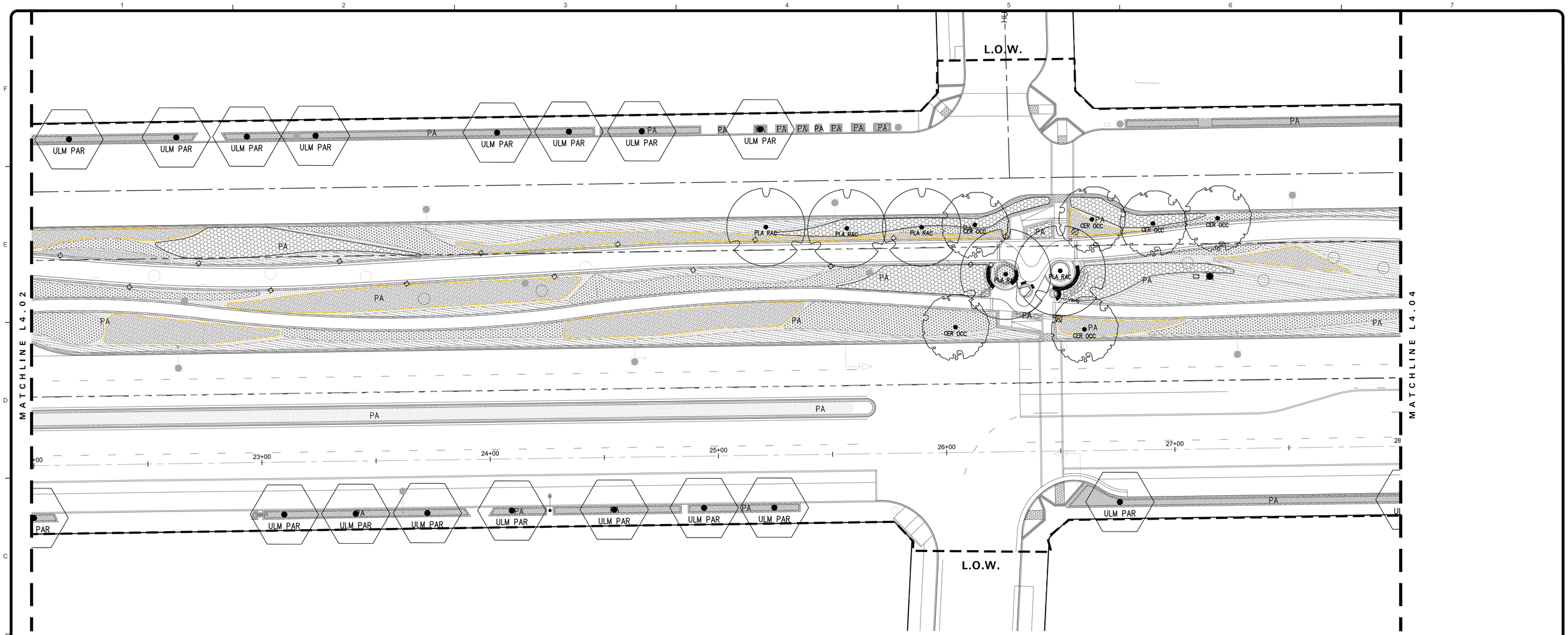
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L4.02
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801_culver_widening_project\4 drawings\graphics\AutoCAD\Sheets\L4.02_PLANTING PLAN.dwg | MGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



0 ½" 1"
1'-0" = 1'-0"

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

PLANTING PLAN

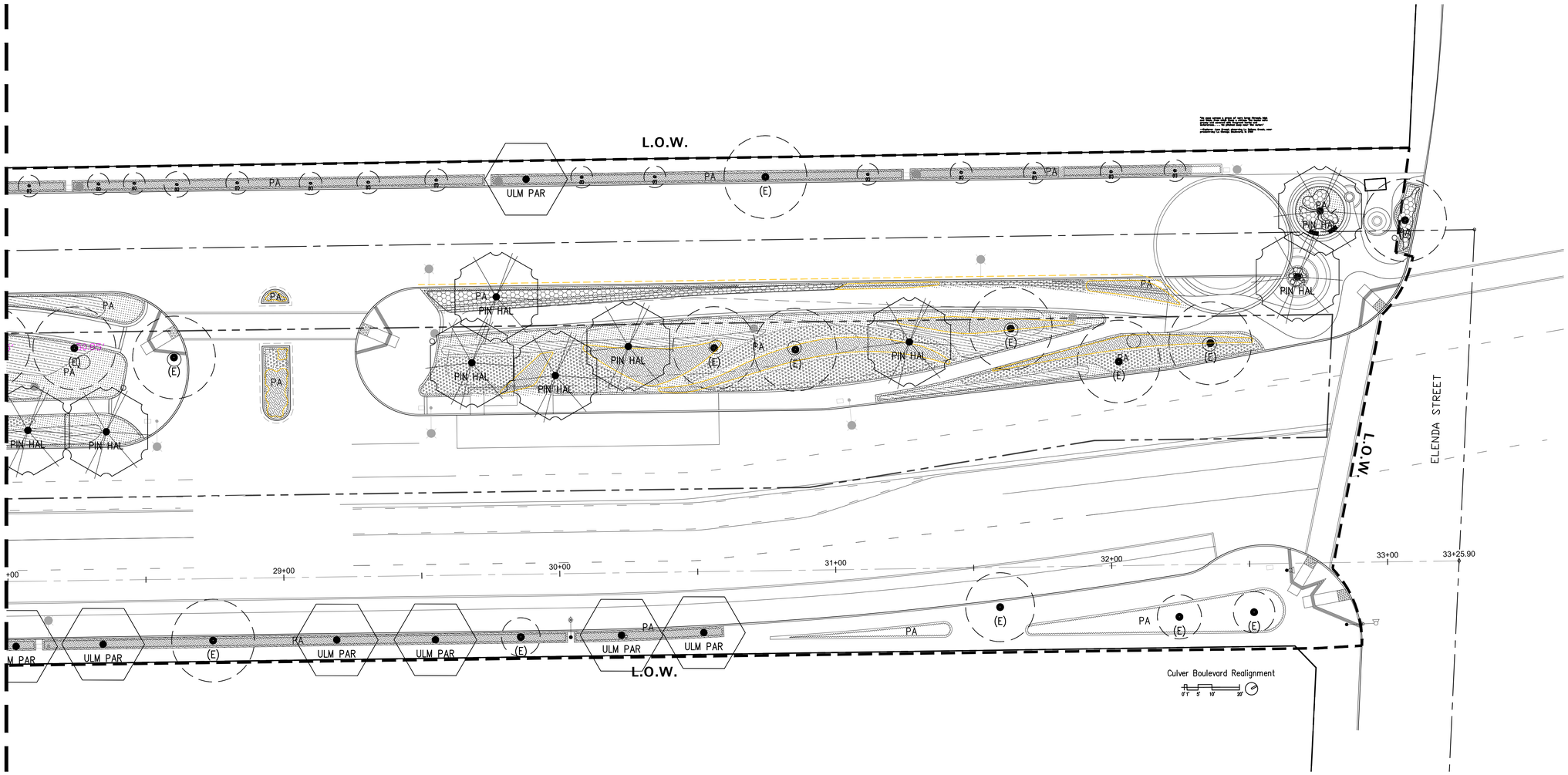
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L4.03
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801_culver_widening_project\4 drawings\graphics\AutoCAD\Sheets\L4.03_PLANTING PLAN.dwg | MGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



0 100 200
1" = 200'

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO. L4.04

NO.	REVISION	BY	APPR.	DATE

PLANTING PLAN

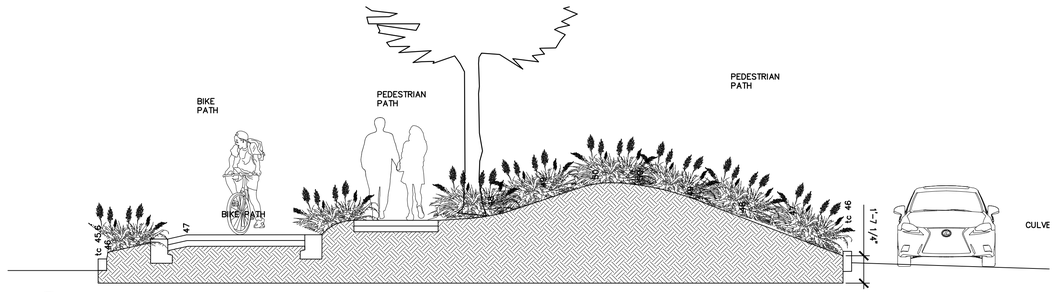
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L4.04
SHEET OF SHEETS

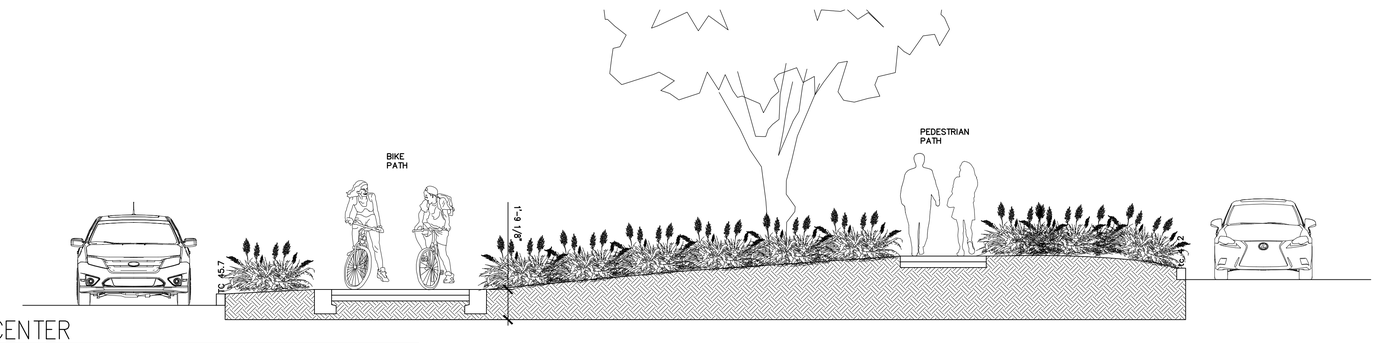
Bar Measures 1 inch

Copyright: Tetra Tech

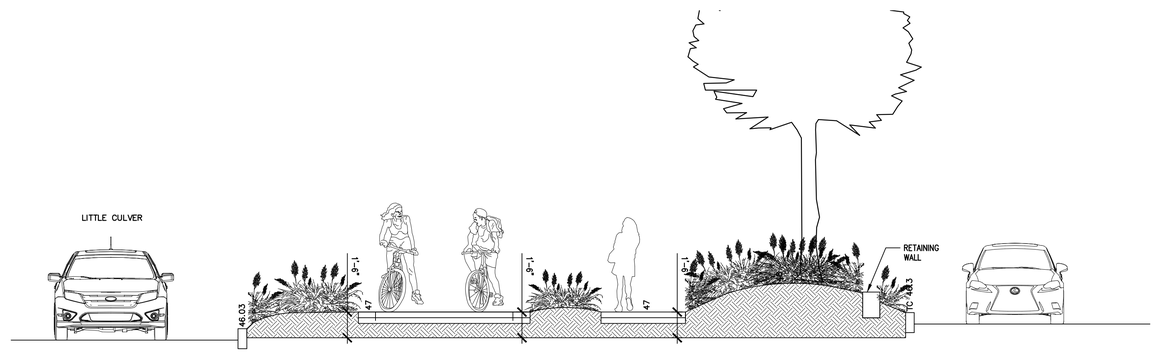
p:\TET\tet801_culver_widening_project\4 drawings\graphics\AutoCAD\Sheets\L4.04 PLANTING PLAN.dwg PLAAGUILAR ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



03 SECTION – COMMONWEALTH
1:50



02 SECTION – CENTER
1:50



01 SECTION – ARVEE
1:50

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

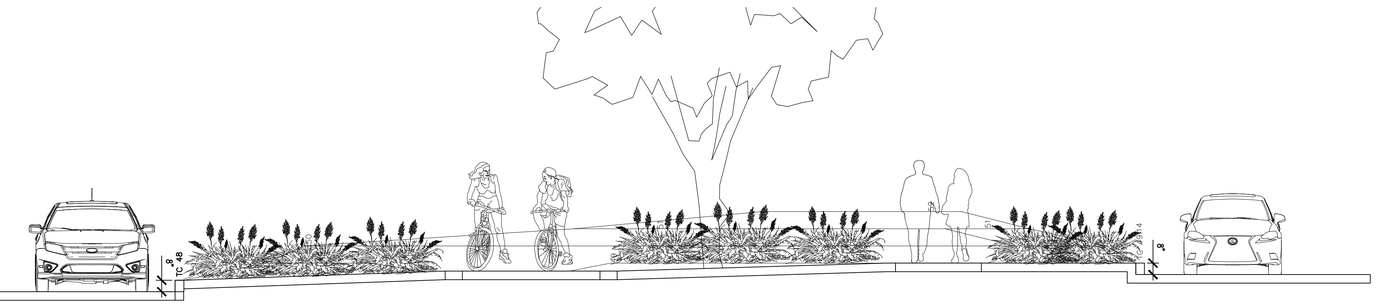
NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

SITE SECTIONS
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE
SHEET L5.01
SHEET OF SHEETS

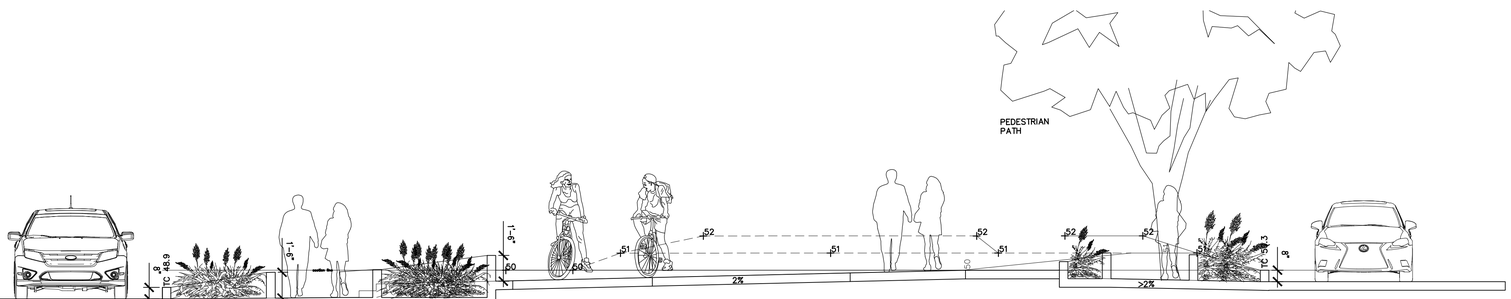
Bar Measures 1 inch

Copyright: Tetra Tech

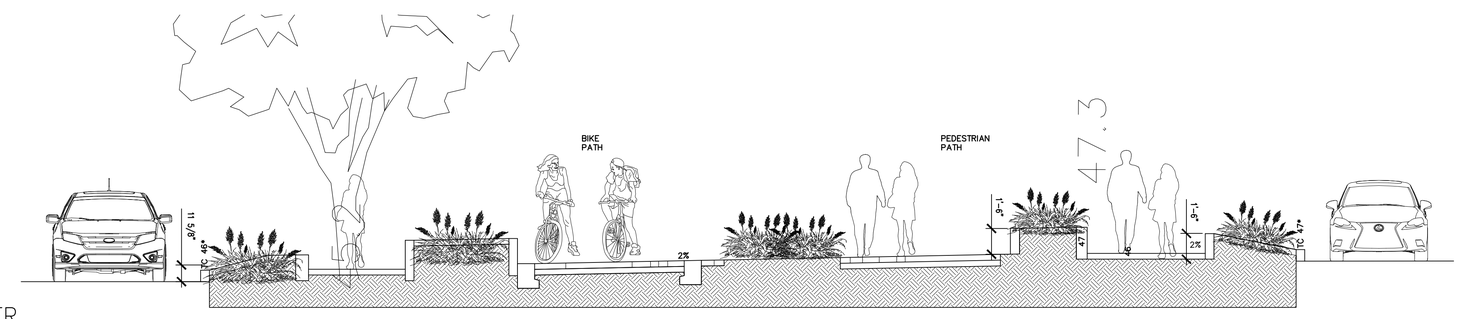
p:\TETRATECH\01\culver-widening\project\4-drawing\graphics\AutoCAD\Sheets\L5.01-SITE-SECTIONS.dwg ::MGERHART:ARCH-D (24.00 X 36.00 INCHES) | 8/24/2018



03 SECTION – TILDEN
1:50



02 SECTION – HURON
1:50



01 SECTION – HARTER
1:50

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

SITE SECTIONS

APPROVED BY CHARLES D. HERBERTSON

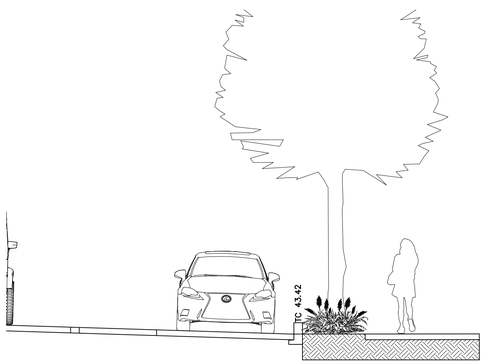
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L5.02
SHEET OF SHEETS

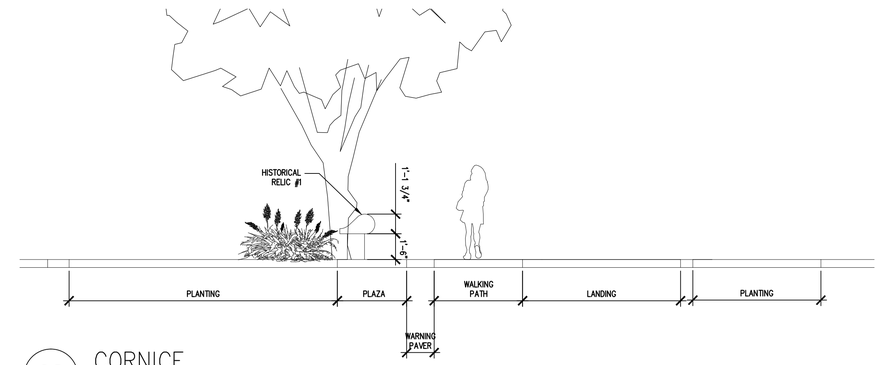
Bar Measures 1 inch

Copyright: Tetra Tech

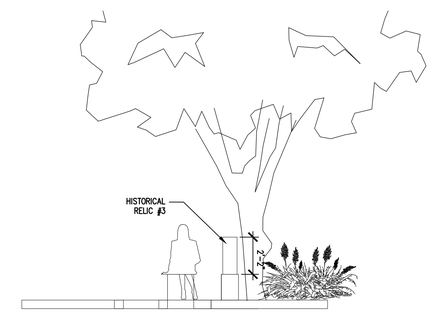
p:\TEX\tets801\culver widening project\drawing\graphics\Autocad\Sheets\L5.02-SITESECTIONS.dwg - TIMGERHART - (ARCH-D (24.00 X 36.00 INCHES) | 8/24/2018



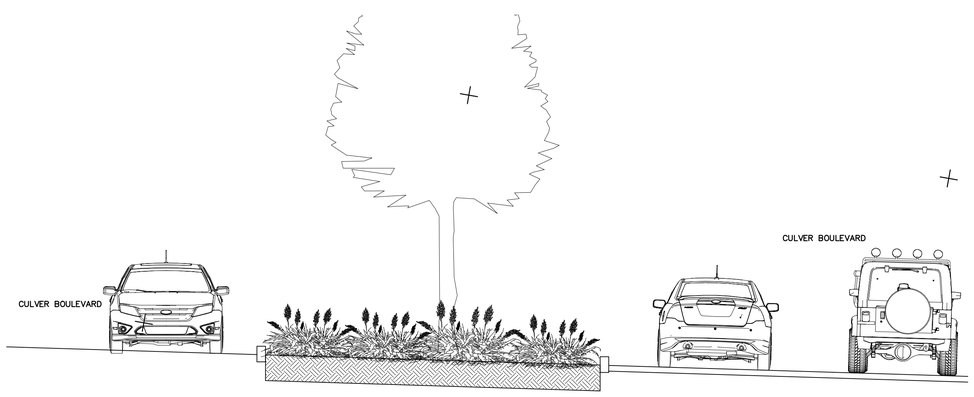
05 PARKWAY
1:50



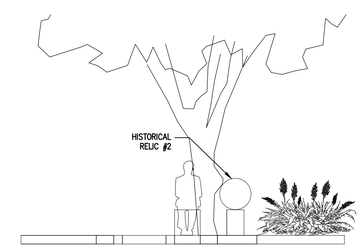
02 CORNICE
1:50



03 PLINTH
1:50



04 MEDIAN
1:50



01 CIRCLE
1:50

0 1/2" 1"
1'-0" = 1'-0"

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

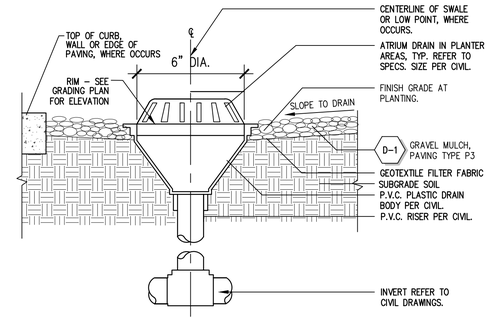
NO.	REVISION	BY	APPR.	DATE

SITE SECTIONS
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE
SHEET L5.03
SHEET OF SHEETS

Bar Measures 1 inch

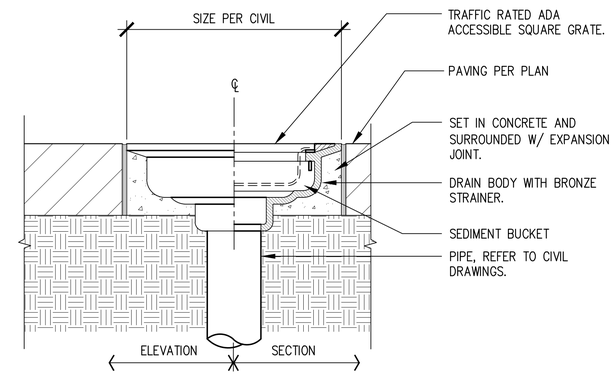
Copyright: Tetra Tech

p:\TET\tets801_culver_widening_project\4 drawings\graphics\AutoCAD\Sheets\L5.03_SITE SECTIONS.dwg | MGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



02 AREA DRAIN IN PLANTING – SECTION

3" = 1'-0"



01 AREA DRAIN IN PAVING – SECTION

3" = 1'-0"

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

DRAINAGE DETAILS

APPROVED BY CHARLES D. HERBERTSON

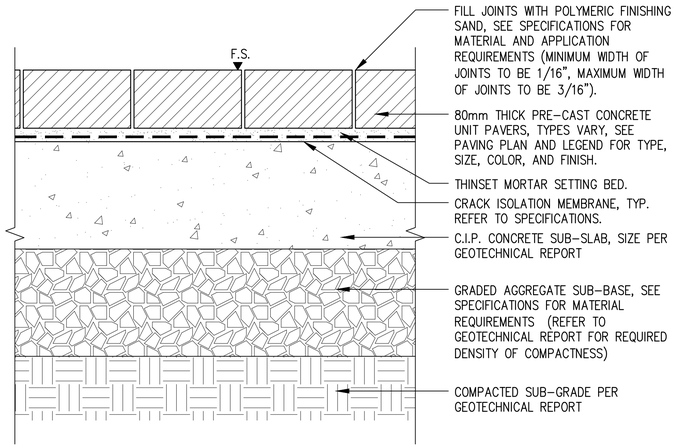
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET L6.01
SHEET OF SHEETS

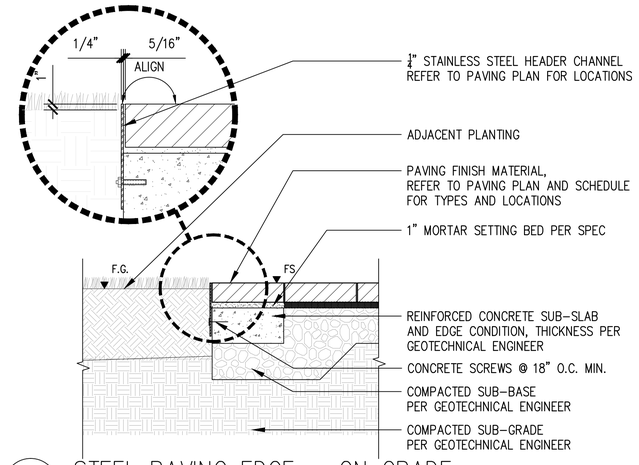
Bar Measures 1 inch

Copyright: Tetra Tech

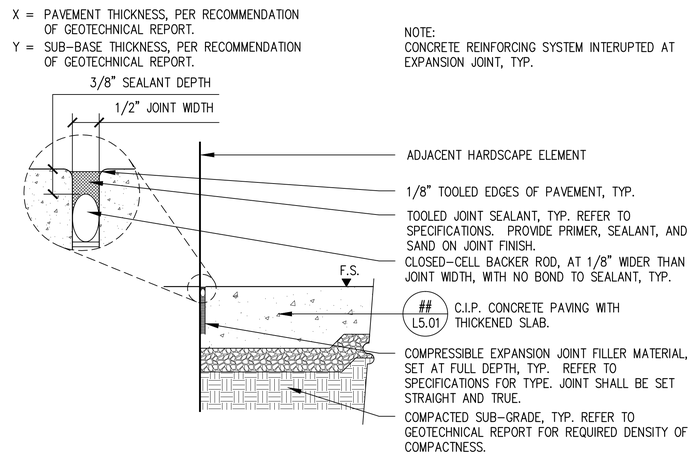
8/24/2018 5:41:47 PM - P:\TET\TETS801 CULVER WIDENING PROJECT\4 DRAWINGS\GRAPHICS\AUTOCAD\SHEETS\L6.01 DRAINAGE DETAILS.DWG - MARGARET GERHART



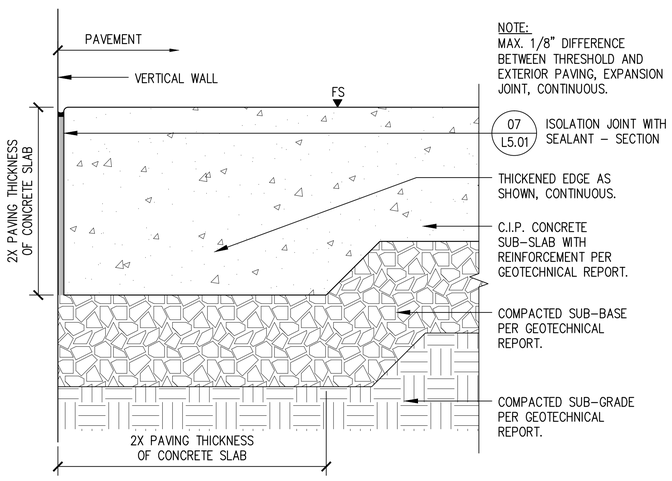
08 UNIT PAVERS – VEHICULAR SUB-BASE (ON-GRADE)
3" = 1'-0"



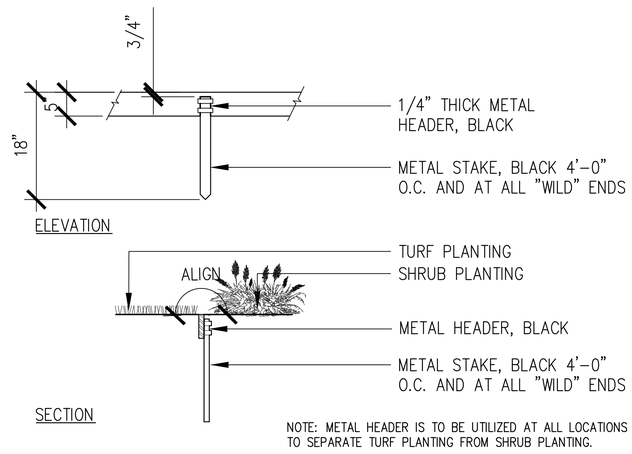
05 STEEL PAVING EDGE – ON GRADE
NOT TO SCALE



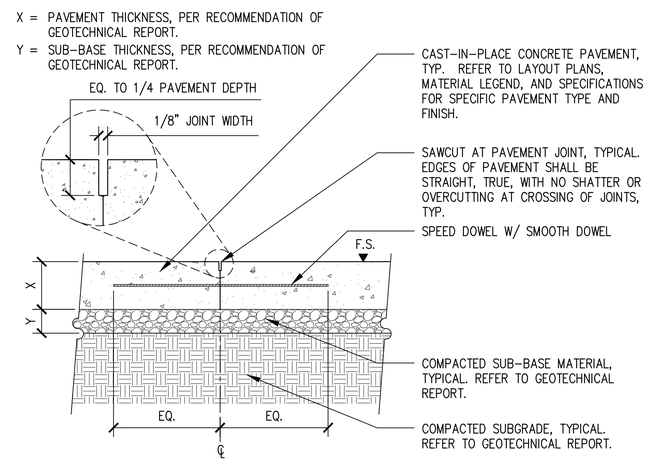
02 EXPANSION JOINT WITH SEALANT – SECTION 1SC
NOT TO SCALE



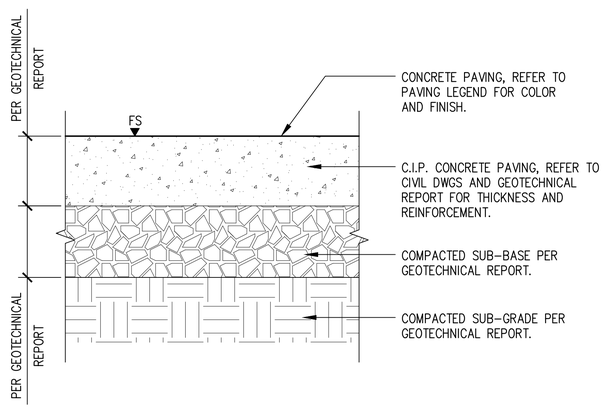
07 C.I.P. CONCRETE PAVING WITH THICKENED SLAB 4SC
3" = 1'-0"



04 STEEL HEADER
NOT TO SCALE



01 COLD CONSTRUCTION JOINT (SAWCUT) – SECTION 1SC
NOT TO SCALE



06 C.I.P. CONCRETE PAVING – SECTION 4SC
3" = 1'-0"

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

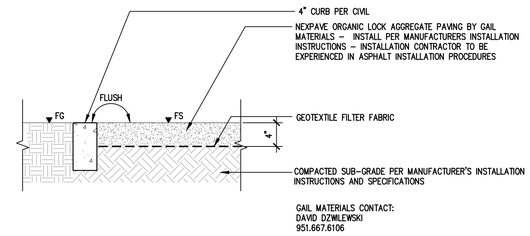
NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

PAVING DETAILS
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE
SHEET L6.02 SHEET OF SHEETS

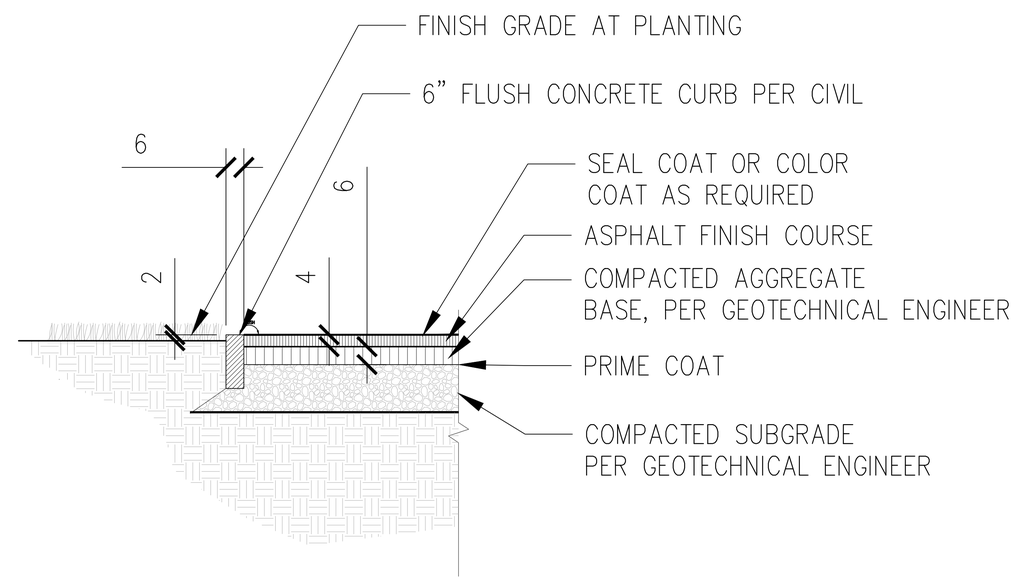
Copyright: Tetra Tech

Bar Measures 1 inch

p:\TET\texts\801\culver-widening\project\drawing\graphics\AutoCAD\Sheets\L6.02-PAVING-DETAILS.dwg | ARCH-D (24.00 X 36.00 INCHES) | 8/24/2018



02 ORGANIC LOCK AGGREGATE PAVING
1" = 1'-0"



01 ASPHALT PAVING
1/2" = 1'-0"

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
.				
.				
.				
.				
.				

PAVING DETAILS

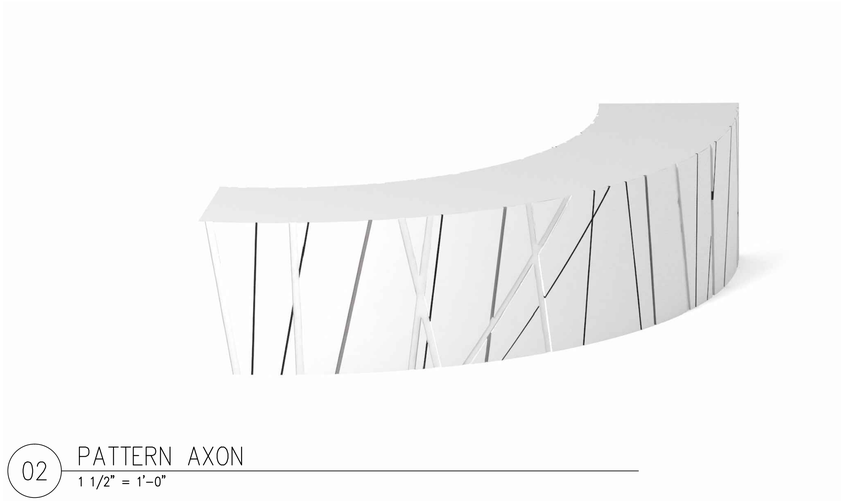
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L6.03
SHEET OF SHEETS

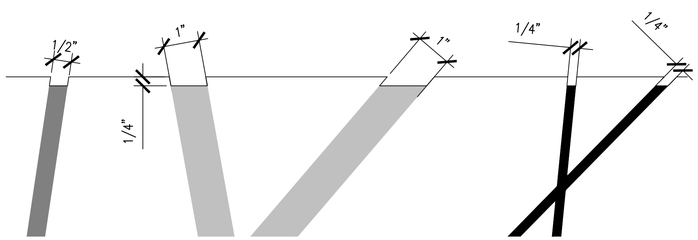
Bar Measures 1 inch

Copyright: Tetra Tech

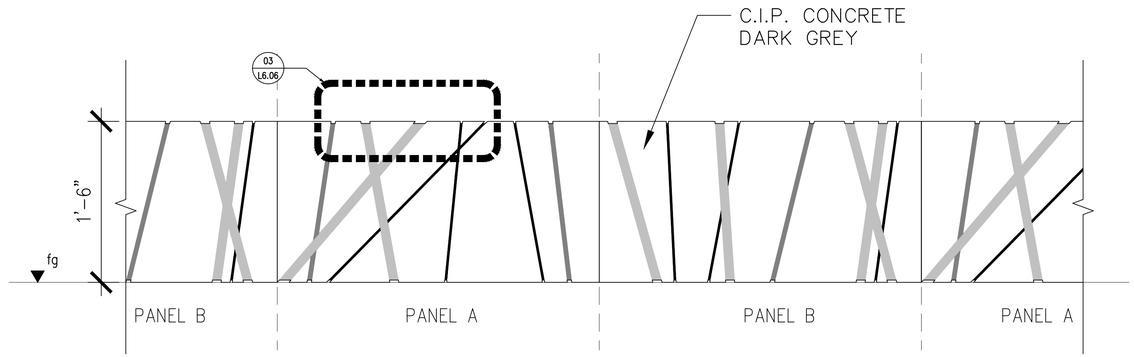
p:\TET\tets801\culver-widening\project4\drawings\graphics\AutoCAD\Sheets\L6.03-PAVING-DETAILS.dwg | ARCH D (24.00 x 36.00 INCHES) | 8/24/2018



02 PATTERN AXON
1 1/2" = 1'-0"



03 PATTERN DETAIL – ENLARGEMENT
6" = 1'-0"



01 PATTERN DETAIL
1:8

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

WALL AND STAIR DETAILS

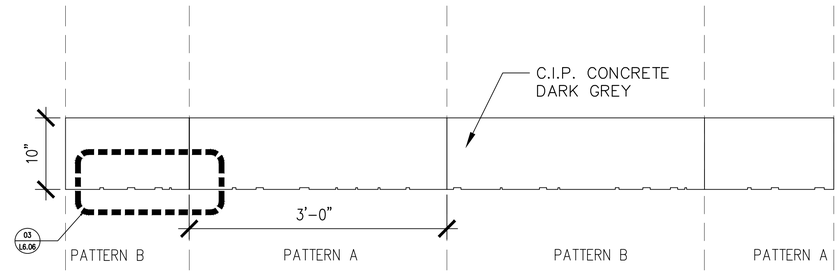
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET
L6.06
SHEET OF SHEETS

Bar Measures 1 inch

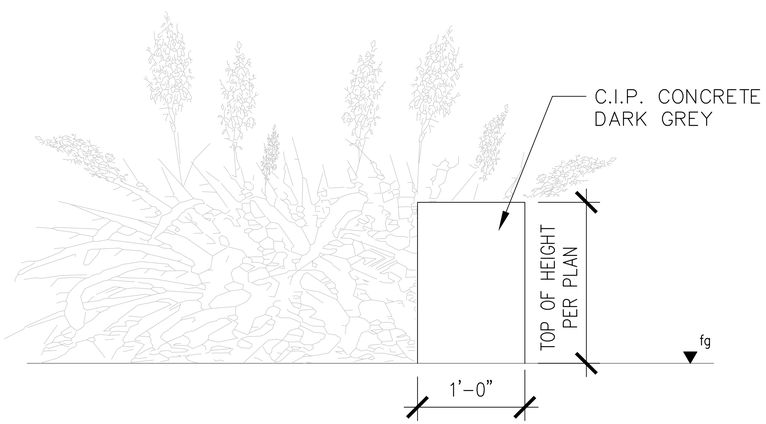
Copyright: Tetra Tech

p:\TET\tets801\culver widening project\4 drawings\graphics\AutoCAD\Sheets\L6.06 WALL AND STAIR DETAILS.dwg | MCFERRIER | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018

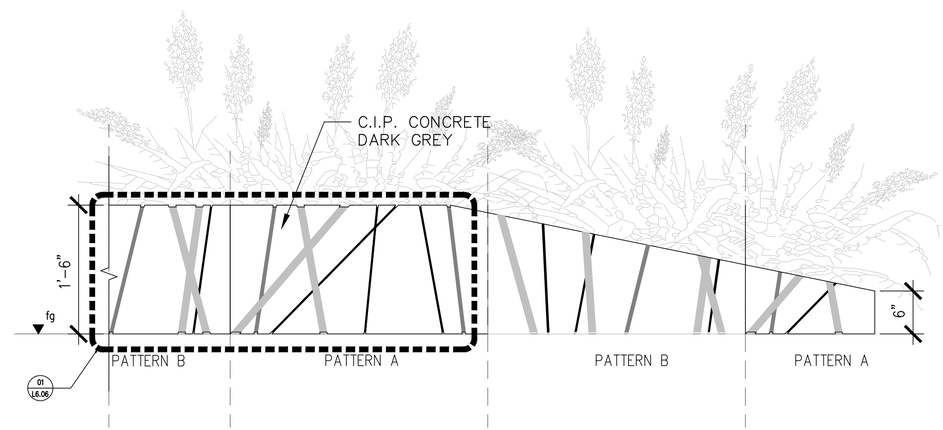


PLAN VIEW

02 RETAINING WALL W-2 PLAN
1:10



03 RETAINING WALL – SECTION
1:8



01 PATTERN DETAIL – RETAINING WALL W-2 ELEVATION
1:10

0 ½" 1"
1'-0" = 1'-0"

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

WALL AND STAIR DETAILS
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE
SHEET L6.07
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets801 culver widening project\4 drawings\graphics\AutoCAD\Sheets\L6.07 WALL AND STAIR DETAILS.dwg | MGERHART | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018

LED bollards with 180° light distribution

Post construction: One piece extruded aluminum with internally welded die-cast aluminum base. Die castings are marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy.
Enclosure: Heavy walled, die-cast aluminum cap. Clear 1/4" thick borosilicate glass with pure anodized aluminum reflector. Fully gasketed for weather tight operation using high temperature silicone gasket.
Electrical: 7.2W LED luminaire, 10 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LCD module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with a >60 CRI. Available in 4000K (>80 CRI) add suffix K4 to order. **Note:** LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA US. For the most current technical data, please refer to www.bega-us.com.
Anchor base: Heavy cast aluminum, slotted for precise alignment. Mounts to BEGA 79 B24 anchor bgc kit. Bollard secures to base with one stainless steel set screw. The mounting system allows the luminaire to be adjusted independent of anchor bolt orientation.
Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK) White (WHT) Bronze (BRO) Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.
CSA certified to U.S. and Canadian standards, suitable for wet locations. Ingression class IP65
Weight: 19.0 lbs.

Luminaire Lumens: 411

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:

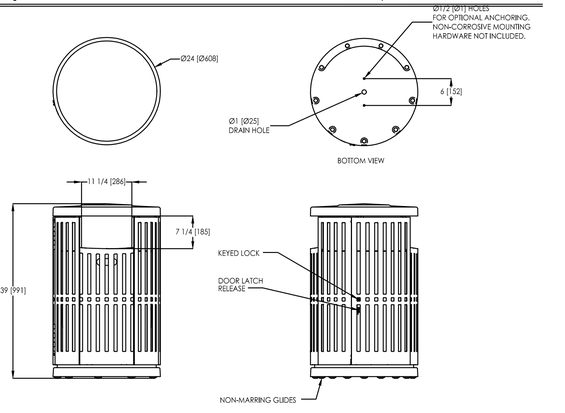
LED (Hz) Incl. Ver. - 180°				
	Lamp	A	D	Anchorage
77763	7.2W LED	6½	39½	**79017**

1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0553 FAX (805) 566-9474 www.bega-us.com
©copyright BEGA 2017 Updated 10/17

NOTES:
SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

02 BOLLARD PATHWAY LIGHT
NOT TO SCALE

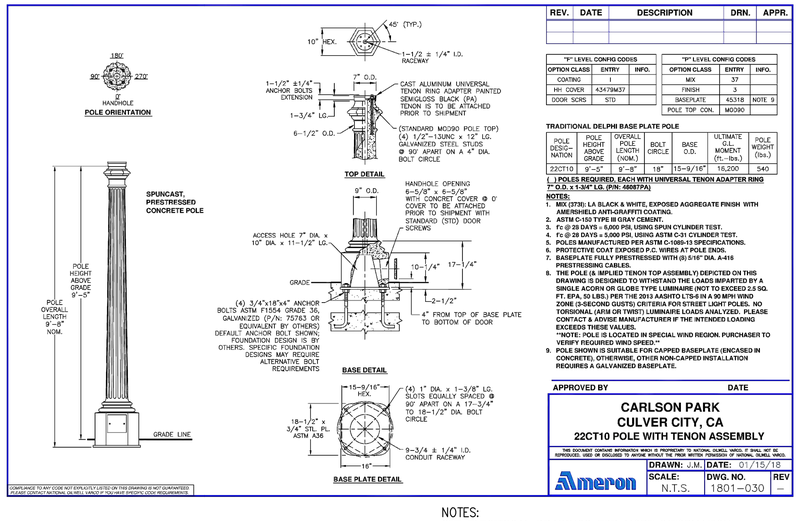
Chase Parks® Slot Opening Litter Receptacle, With Lock
Product Drawing
www.landscapeforms.com
Date: 8/5/2010
Ph: 800.521.2546



Drawing: CP362-02
Dimensions are in inches [mm]
U.S. Patent Nos.: D472,397; D481,507; D489,

CONFIDENTIAL DRAWING INFORMATION CONTAINED HEREIN IS THE PROPERTY OF LANDSCAPE FORMS, INC. INTENDED USE IS LIMITED TO DESIGN PROFESSIONALS, SPECIFYING LANDSCAPE FORMS, INC. PRODUCTS AND THEIR DIRECT CLIENTS. DRAWING IS NOT TO BE COPIED OR DISCLOSED TO OTHERS WITHOUT THE CONSENT OF LANDSCAPE FORMS, INC. ©2013 LANDSCAPE FORMS, INC. ALL RIGHTS RESERVED.

01 TRASH RECEPTACLE
NOT TO SCALE



COMPLIANCE TO ANY CODE NOT EXPLICITLY LISTED ON THIS DRAWING IS NOT GUARANTEED. PLEASE CONTACT NATIONAL OILWELL VARCO IF YOU HAVE SPECIFIC CODE REQUIREMENTS.

REV.	DATE	DESCRIPTION	DRN.	APPR.

"P" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO.
COATING	I	
HH COVER	43479M37	
DOOR SCRS	STD	

"P" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO.
MIX	37	
FINISH	3	
BASEPLATE	45318	NOTE 9
POLE TOP CON.	MO090	

TRADITIONAL DELPHI BASE PLATE POLE

POLE DESIGNATION	POLE HEIGHT ABOVE GRADE	OVERALL POLE LENGTH (NOM.)	BOLT CIRCLE	BASE O.D.	ULTIMATE G.L. MOMENT (ft.-lbs.)	POLE WEIGHT (lbs.)
22CT10	9'-5"	9'-8"	18"	15-9/16"	16,200	540

( ) POLES REQUIRED, EACH WITH UNIVERSAL TENON ADAPTER RING 7" O.D. x 1-3/4" LG. (P/N: 46087PA)

NOTES:
1. **MIX (3730): LA BLACK & WHITE, EXPOSED AGGREGATE FINISH WITH AMERISHIELD ANTI-GRAFFITI COATING.**
2. **ASTM C-150 TYPE III GRAY CEMENT.**
3. **Fc @ 28 DAYS = 6,000 PSI, USING SPUN CYLINDER TEST.**
4. **Fc @ 28 DAYS = 5,000 PSI, USING ASTM C-31 CYLINDER TEST.**
5. **POLES MANUFACTURED PER ASTM C-1089-13 SPECIFICATIONS.**
6. **PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.**
7. **BASEPLATE FULLY PRESTRESSED WITH (8) 5/16" DIA. A-416 PRESTRESSING CABLES.**
8. **THE POLE (& IMPLIED TENON TOP ASSEMBLY) DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE ACORN OR GLOBE TYPE LUMINAIRE (NOT TO EXCEED 2.5 SQ. FT. EPA, 50 LBS.) PER THE 2013 AASHTO LTS-6 (W & V) 90 MPH WIND ZONE (3-SECOND GUSTS) CRITERIA FOR STREET LIGHT POLES. NO TORSIONAL (AFIM OR TWIST) LUMINAIRE LOADS ANALYZED. PLEASE CONTACT & ADVISE MANUFACTURER IF THE INTENDED LOADING EXCEEDS THESE VALUES.**
   "NOTE: POLE IS LOCATED IN SPECIAL WIND REGION. PURCHASER TO VERIFY REQUIRED WIND SPEED."
9. **POLE SHOWN IS SUITABLE FOR CAPPED BASEPLATE (ENCASED IN CONCRETE), OTHERWISE, OTHER NON-CAPPED INSTALLATION REQUIRES A GALVANIZED BASEPLATE.**

APPROVED BY DATE

CARLSON PARK
CULVER CITY, CA
22CT10 POLE WITH TENON ASSEMBLY

THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO NATIONAL OILWELL VARCO. IT SHALL NOT BE REPRODUCED, USED OR DISCLOSED TO ANYONE WITHOUT THE PRIOR WRITTEN PERMISSION OF NATIONAL OILWELL VARCO.

Ameron
DRAWN: J.M. DATE: 01/15/18
SCALE: N.T.S. DWG. NO. 1801-030 REV –

NOTES:
SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

03 PEDESTRIAN LIGHT POLE
NOT TO SCALE

NOT FOR CONSTRUCTION

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:
WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
	.			
	.			
	.			
	.			
	.			

AMENITY DETAILS

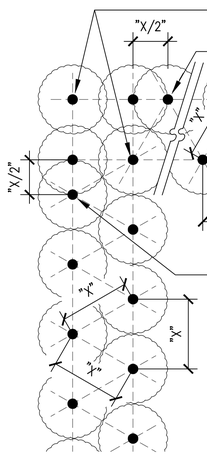
APPROVED BY CHARLES D. HERBERTSON
PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET L6.08
SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\texts80\culver widening project\drawing graphics\AutoCAD\Sheets\L6.08 AMENITY DETAILS.dwg | RICHU | ARCH D (24.00 X 36.00 INCHES) | 8/24/2018



PIVOT PLANTS AT INTERSECTIONS OF ROW LINES, TYPICAL.

"INFILL" HEDGE PLANT, TYPICAL. PROVIDE AT INTERSECTION OF ROW LINES OR AR ENDS OF HEDGE.

ROW LINE, TYPICAL. ALIGN HEDGE PLANTS ALONG ROW LINE(S), TYPICAL.

EDGE CONDITION (CONCRETE PAVEMENT, EDGING MATERIAL, WALL, FENCE, BUILDING FACADE, ETC.)

CENTER OF HEDGE PLANT, TYPICAL. REFER TO PLANT LIST FOR ON-CENTER SPACING.

"INFILL" HEDGE PLANT, TYPICAL. PROVIDE AT INTERSECTION OF ROW LINES OR AR ENDS OF HEDGE.

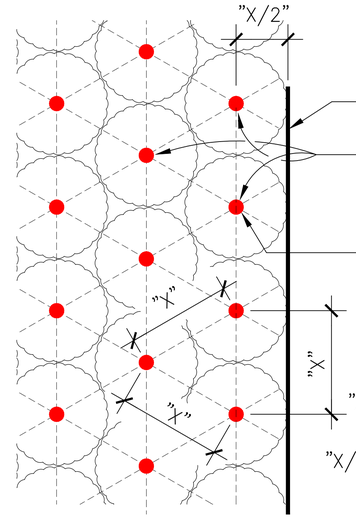
NOTES:

"X" = SPACE HEDGE PLANTS ACCORDING TO THE ON-CENTER (OC) PLANT SPACING AS NOTED IN THE PLANTING PLANS, TYPICAL.

"X/2" = SPACE HEDGE PLANTS ACCORDING TO ½ THE ON-CENTER PLANT SPACING AS NOTED IN THE PLANTING PLANS, TYPICAL.

06 TRIANGULAR SPACING DIAGRAM – MULTIPLE ROWS

NOT TO SCALE



NOTE: DIAGRAM REFERS TO ALL PLANT SPACING UNLESS OTHERWISE NOTED, TYPICAL.

EDGE CONDITION (CONCRETE PAVEMENT, EDGING MATERIAL, WALL, FENCE, BUILDING FACADE, ETC.)

TRIANGULAR SPACING FOR OPTIMUM COVERAGE, TYPICAL.

CENTER OF PLANT (SHRUB, GROUNDCOVER, ETC.) TYPICAL. REFER TO PLANT LIST FOR TYPE, SIZE AND SPACING REQUIREMENTS.

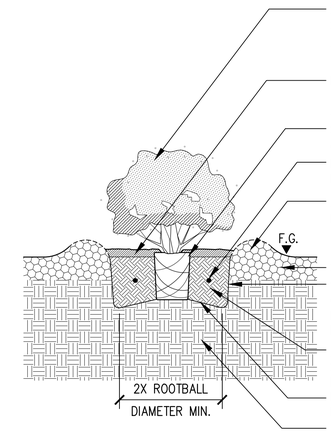
NOTES:

"X" = SPACE PLANTS ACCORDING TO THE ON-CENTER (OC) PLANT SPACING AS NOTED IN THE PLANTING PLANS, TYPICAL.

"X/2" = SPACE PLANTS ACCORDING TO ½ THE ON-CENTER PLANT SPACING AS NOTED IN THE PLANTING PLANS, TYPICAL.

04 TRIANGULAR SPACING

NOT TO SCALE



SHRUB, SET PLUMB. REFER TO PLANT LIST AND SPECIFICATIONS FOR SPECIES, FORM, HEIGHT, SPREAD, AND/OR OTHER REQUIREMENTS.

MULCH SURFACING. REFER TO SPECIFICATIONS FOR TYPE AND COVERAGE DEPTH, TYPICAL. HOLD MULCH AWAY FROM BASE OF SHRUB.

SHRUB ROOT BALL (WELL ROOTED). SET ROOTBALL CROWN AT 1" ABOVE FIN. GRADE.

PLANTING TABLET/PACKET, TYP. REFER TO SPECS FOR TYPES AND APPLICATION RATES.

3" DEEP TEMP. WATERING BASIN. PROVIDE UNTIL PERMANENT IRRIG. SYSTEM IS OPERATIONAL.

SURFACE SOIL PREPARATION. REFER TO SPECS.

SHRUB PLANTING PIT. SCARIFY SIDES, AND PROVIDE COMPACTED BOTTOM AT ROOTBALL OF SHRUB. PLANTING PIT SIZE AT MIN. 2X THE SHRUB ROOTBALL DIAMETER, TYP.

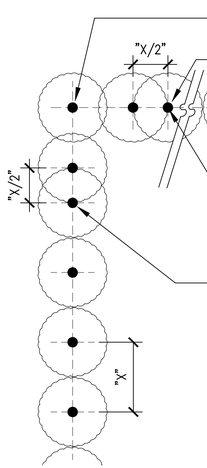
AMENDED PLANTING BACKFILL MIXTURE. REFER TO SPECIFICATIONS. WATER AND TAMP TO REMOVE AIR POCKETS.

PROVIDE POSITIVE DRAINAGE AWAY FROM BOTTOM OF ROOTBALL, TYP.

UNDISTURBED NATIVE SUBGRADE SOIL.

02 SHRUB PLANTING

NOT TO SCALE



PIVOT PLANTS AT INTERSECTIONS OF ROW LINES, TYPICAL.

"INFILL" HEDGE PLANT, TYPICAL. PROVIDE AT INTERSECTION OF ROW LINES OR AR ENDS OF HEDGE.

ROW LINE, TYPICAL. ALIGN HEDGE PLANTS ALONG ROW LINE(S), TYPICAL.

EDGE CONDITION (CONCRETE PAVEMENT, EDGING MATERIAL, WALL, FENCE, BUILDING FACADE, ETC.)

CENTER OF HEDGE PLANT, TYPICAL. REFER TO PLANT LIST FOR ON-CENTER SPACING.

"INFILL" HEDGE PLANT, TYPICAL. PROVIDE AT INTERSECTION OF ROW LINES OR AR ENDS OF HEDGE.

NOTES:

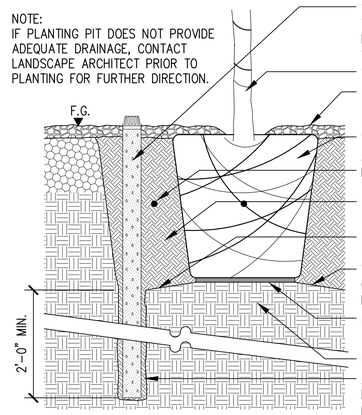
"X" = SPACE HEDGE PLANTS ACCORDING TO THE ON-CENTER (OC) PLANT SPACING AS NOTED IN THE PLANTING PLANS, TYPICAL.

"X/2" = SPACE HEDGE PLANTS ACCORDING TO ½ THE ON-CENTER PLANT SPACING AS NOTED IN THE PLANTING PLANS, TYPICAL.

05 GRID SPACING DIAGRAM – SINGLE ROW

NOT TO SCALE

NOTE:
IF PLANTING PIT DOES NOT PROVIDE ADEQUATE DRAINAGE, CONTACT LANDSCAPE ARCHITECT PRIOR TO PLANTING FOR FURTHER DIRECTION.



TREE ROOT AERATION UNIT (TREE CHIMNEY) ASSEMBLY, TYP. ASSEMBLY INCLUDES PERFORATED PIPE, FILTER FABRIC WRAP, AND GRATE. REFER TO SPECS FOR TYPE(S) SIZE(S), AND QUANTITY. SET UNIT PLUMB, TYP.

TRUNK OF SHADE/FLOWERING TREE.

MULCH SURFACING. REFER TO SPECS FOR TYPE AND COVERAGE DEPTH, TYP. HOLD MULCH AWAY FROM TRUNK OF TREE.

TREE ROOTBALL (WELL ROOTED). SET ROOTBALL CROWN AT 1" ABOVE FINISHED GRADE, TYPICAL.

PLANTING TABLET/PACKET, TYP. REFER TO SPECS FOR TYPES AND APPLICATION RATES.

AMENDED PLANTING BACKFILL MIXTURE. REFER TO SPECS. WATER AND TAMP TO REMOVE AIR POCKETS.

PROVIDE POSITIVE DRAINAGE AWAY FROM BOTTOM OF ROOTBALL, TYP.

TREE PLANTING PIT. SCARIFY SIDES, AND PROVIDE COMPACTED BOTTOM AT ROOTBALL OF TREE. PLANTING PIT SIZE AT MIN. 2X THE TREE ROOTBALL DIA., TYP.

BOTTOM OF WOODEN PLANTING CONTAINER. (24" BOX AND LARGER NURSERY STOCK).

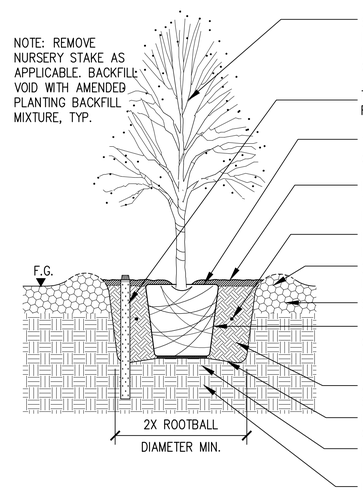
UNDISTURBED NATIVE SUBGRADE SOIL

AUGER INTO UNDISTURBED NATIVE SUBGRADE SOIL TO INDICATED DEPTH, MIN. EXCAVATION MUST PENETRATE IMPERMEABLE SOIL LAYER(S), TYP. BACKFILL WITH EXCAVATED SOIL.

03 TREE ROOT AERATION UNIT (TREE CHIMNEY)

NOT TO SCALE

NOTE: REMOVE NURSERY STAKE AS APPLICABLE. BACKFILL VOID WITH AMENDED PLANTING BACKFILL MIXTURE, TYP.



SHADE/FLOWERING TREE, SET PLUMB. REFER TO PLANT LIST AND SPECIFICATIONS FOR SPECIES, FORM, BRANCHING CHARACTER, HEIGHT, SPREAD, CALIPER, AND OTHER REQUIREMENTS.

TREE ROOT AERATION UNIT. REFER TO SPECS FOR TYPE AND QUANTITY PER TREE, TYP.

TREE ROOTBALL (WELL ROOTED). SET ROOTBALL CROWN AT 1" ABOVE FINISHED GRADE, TYP.

MULCH LAYER. REFER TO SPECIFICATIONS FOR TYPE AND COVERAGE DEPTH, TYPICAL. HOLD MULCH AWAY FROM TRUNK OF TREE.

PLANTING TABLET/PACKET, TYP. REFER TO SPECS FOR TYPES AND APPLICATION RATES.

3" DEEP TEMP. WATERING BASIN. PROVIDE UNTIL PERMANENT IRRIG. SYSTEM IS OPERATIONAL.

SURFACE SOIL PREPARATION. REFER TO SPECS.

TREE PLANTING PIT. SCARIFY SIDES, AND PROVIDE COMPACTED BOTTOM AT ROOTBALL OF TREE. PLANTING PIT SIZE AT MIN. 2X THE TREE ROOTBALL DIAMETER, TYP.

AMENDED PLANTING BACKFILL MIXTURE. REFER TO SPECS. WATER AND TAMP TO REMOVE AIR POCKETS.

PROVIDE POSITIVE DRAINAGE AWAY FROM BOTTOM OF ROOTBALL, TYP.

BOTTOM OF WOODEN PLANTING CONTAINER. (24" BOX AND LARGER NURSERY STOCK).

UNDISTURBED NATIVE SUBGRADE SOIL.

01 TREE PLANTING

NOT TO SCALE

NOT FOR CONSTRUCTION

swa

811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
United States
www.swagroup.com
+1.213.236.9090 o

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

TETRA TECH
www.tetratech.com
17885 Von Karman Ave., #500
Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

WAYNE RICHARDSON RCE- EXP. 12/31/18 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

PLANTING DETAILS

APPROVED BY CHARLES D. HERBERTSON

PUBLIC WORKS DIRECTOR/CITY ENGINEER DATE

SHEET L7.01 SHEET OF SHEETS

Bar Measures 1 inch

Copyright: Tetra Tech

p:\TET\tets680\x:\culver-widening\project\4-drawing\graphics\Auto\CAD\Sheets\L7.01-PLANTING DETAILS.dwg\RICHHU | ARCH-D (24.00 x 36.00 INCHES) | 8/24/2018

B CULVER BOULEVARD STORMWATER CAPTURE PROJECT PRELIMINARY DESIGN CONCEPT REPORT

CULVER BOULEVARD STORMWATER CAPTURE PROJECT

PRELIMINARY DESIGN CONCEPT REPORT

June 15, 2018

PRESENTED TO

City of Culver City
Department of Public Works
9770 Culver Boulevard
Culver City, CA 90232

PRESENTED BY

Tetra Tech Inc
3475 E Foothill Boulevard
Pasadena, CA 91107

P +1-626-351-4664
F +1-626-351-5291
tetratech.com

EXECUTIVE SUMMARY

The Ballona Creek Enhanced Watershed Management Plan (BC EWMP) identified a network of watershed control measures and structural Best Management Practices (BMPs) to address the water quality objectives within the watershed. Top tiered projects were also identified in the EWMP and recommended by the BC EWMP Group for implementation. The Culver Boulevard Median site, as one of the top tiered projects for implementation, is within Culver City and is located along Culver Boulevard between Elenda Avenue and Sepulveda Boulevard. The Culver Boulevard site has the potential to provide significant water quality benefits for both Culver City and other jurisdictions within the watershed due to the tributary drainage area, location of adjacent storm drains, and available development space.

As a major step towards implementing the EWMP, Culver City seeks to design and implement a regional stormwater capture facility within the Culver Boulevard median. The primary design goal of the Culver Boulevard project is to reduce long term annual loading of pollutants to the BC WMA using zinc as the limiting pollutant of concern in the analysis as established by the EWMP for this watershed group.

The objective of this report is to provide the city recommendations that will ultimately guide the development of the 100% detailed design documents. The preliminary design concepts presented herein will be optimized to meet the needs of the BC EWMP Group, as demonstrated by the supporting hydrologic, hydraulics, and water quality analytics. The design objectives included addressing both the magnitude of stormwater runoff from Storm Drain BI 2901-U2, Line B (referred to herein as Harter Ave drain) and the Culver City Drain – Unit 4 Line A (referred herein as Sepulveda Boulevard drain), as well as the pollutant loading within the respective drainage areas. Both drainage assets outlet directly to Ballona Creek, offering a strategic opportunity to intercept runoff before it discharges to the Ballona Creek channel.

This preliminary engineering design report was prepared for the Culver Boulevard Median to advance progress towards implementing the EWMP and thereby complying with the MS4 permit requirements. The existing utilities, geotechnical conditions, hydrology, and water quality were first characterized, followed by an optimized analysis informed data-driven selection of cost-effective solutions. The results of the model optimization suggest that an 8.0 ac-ft. BMP could provide optimal long-term pollutant removal. The following summarizes the recommended configuration:

- **A 10’ high, 0.8-acre area, underground stormwater capture vault (8 ac-ft. volume)**
- **25 cfs gravity diversion from Harter Ave drain (BI 2901-U2 Line B)**
- **25 cfs gravity diversion from Sepulveda Boulevard drain (Culver City Drain – Unit 4 Line A, I)**
- **5.76 cfs maximum discharge rate with filtration and subsequent return to the Harter Ave drain**

The predictive BMP performance demonstrates that long-term pollutant reduction targets can be achieved based on several key compliance metrics, including average annual reduction (from which the BMP’s size and operating parameters could be optimized). The optimized BMP has capacity to provide a significant amount of water quality benefit for the Ballona Creek Watershed. These performance estimates will contribute significantly towards pollutant reduction initiatives in the EWMP and this project will enable Culver City to address pollutants conveyed by stormwater in this watershed. The estimated construction cost is $12,864,007 for the recommended optimal BMP configuration with an overall estimated project capital budget of $14.2 million (including construction management and inspections) and an estimated 10-year operations and maintenance cost of $713,500. Full details of what is entailed in theses cost estimates and how BMP optimization determined the recommended configurations are contained herein.

TABLE OF CONTENTS

1.0 INTRODUCTION AND EXISTING CONDITIONS....1

1.1 Project Objectives 1

1.2 Existing Site Conditions 1

1.2.1 Utility Data Review, Survey, and Utility Mapping 1

1.2.2 Geotechnical and Soil Contamination Investigations 2

2.0 REGULATORY CONTEXT 5

2.1 Ballona Creek Watershed EWMP and Water Quality Drivers 5

2.2 Local Water Supply Considerations....8

3.0 DECISION SUPPORT MODELING 8

3.1 Baseline Conditions and Constraints 8

3.1.1 Stormwater Compliance Metrics 8

3.1.2 Watershed Characterization....8

3.1.3 Irrigation Potential Baseline Water Demand Estimation 10

3.1.4 Groundwater Constraints.... 10

3.2 Water Quality Optimization Strategy.... 11

3.2.1 Preliminary Size and Diversion Optimization (SUSTAIN) 11

3.2.2 Preliminary Scenarios Evaluated 12

3.3 Optimization Modeling Results 14

3.3.1 Optimal BMP Recommendation Development.... 14

3.3.2 BMP Recommendations for the Six Alternatives.... 19

3.3.3 Recommended BMP Performance and EWMP Compliance Analysis.... 20

3.4 Summary of Decision Support Modeling.... 22

4.0 BMP DESIGN COMPONENTS 23

4.1 Diversion Structures.... 23

4.2 Pretreatment 23

4.2.1 Hydrodynamic Separators.... 24

4.2.2 Debris Separating Baffle Box 24

4.3 Proposed Stormwater BMP 26

4.3.1 Regional BMP Layout.... 26

4.3.2 BMP Structure Alternatives 26

4.4 Discharge Treatment Pump and Filter.... 28

4.4.1 Cartridge Filters.... 28

4.4.2 Up-flow Media Filters 28
4.5 Optional Onsite Use Alternative 29
4.6 Real-Time Controls Considerations 29
5.0 PERMITTING, COST ESTIMATE, AND SCHEDULE 30
5.1 Environmental Documents and Permits 30
5.1.1 Los Angeles County Flood Control District 30
5.1.2 South Coast Air Quality Management District 31
5.1.3 State Water Resources Control Board 31
5.1.4 Local Construction Permits 31
5.1.5 Other Environmental Planning and Permits 31
5.2 Preliminary Cost Analysis 32
5.2.1 Construction Cost 32
5.2.2 Operations & Maintenance Costs 32
5.2.3 Project Costs 33
5.3 Implementation Schedule 34
6.0 CONCLUSIONS AND RECOMMENDATIONS 36

LIST OF TABLES

Table 1-1. Utility Purveyors 2
Table 1-2. Groundwater wells in the vicinity of Culver Boulevard 3
Table 1-3. Liquefaction Analysis Parameters 5
Table 2-1. Summary of Compliance Targets by separate drainage areas 6
Table 3-1. Summary of contributing drainage area, baseline runoff, and pollutant loads 10
Table 3-2. Summary of recommended BMPs for six alternatives 20
Table 3-3. Expected BMP performance for Alternative 2B 21
Table 3-4. EWMP Compliance Contribution for Alternative 2B. 21
Table 3-5. Breakdown of Critical Storm Zn Load Reduction by Jurisdiction for Alternative 2B 22
Table 4-1. Comparison of Pretreatment Devices 25
Table 4-2. Comparison of Cast-in-Place and Precast Concrete Systems 28
Table 5-1. Estimated Construction Costs, Optimal BMP Configuration 32
Table 5-2. Annual Estimated Operations & Maintenance Costs 33
Table 5-3. Estimated Project Capital Cost and Long-Term Operations and Maintenance Costs 33
Table 5-4. Long-Term Operation and Maintenance Costs 34

LIST OF FIGURES

Figure 1-1. Initial concept schematic and vicinity map for Culver Boulevard 1
Figure 1-2. Groundwater Monitoring Well Boring Locations 4
Figure 2-1. Map of project drainage areas in the context of surrounding jurisdictions and the Ballona Creek Reach 2 watershed 7

Figure 3-1. Drainage areas to Culver Boulevard diversion points 9
Figure 3-2. Optimization methodology 11
Figure 3-3. Configuration 1 Schematic 13
Figure 3-4. Configuration 2 Schematic 13
Figure 3-5. Configuration 3 Schematic 13
Figure 3-6. Diversion rate optimization for Harter Ave drain with variable BMP storage volume 15
Figure 3-7. Joint optimization of both diversion rates with variable BMP storage volume 16
Figure 3-8. BMP footprint analysis for a third configuration alternative with variable pump rates 17
Figure 3-9. Cost vs. performance options must weigh into ultimate recommendations as illustrated in a plot of differing BMP heights, each with variable diversion rates for both points of diversion 17
Figure 3-10. Differences in pollutant load reduction based on filtration rates for a single diversion rate configuration 18
Figure 4-1. Typical Hydrodynamic Separator 24
Figure 4-2. Typical DSBB System (Source: Bio Clean Environmental, Inc.) 25
Figure 4-3. Example StormTrap System 27
Figure 4-4 - Example cartridge filter systems 28
Figure 4-5 - Example up-flow media filter system 29
Figure 4-6. Conceptual Schematic of RTC Framework 30
Figure 5-1. Project Implementation Schedule 35
Figure 6-1. Schematic profile view of recommended BMP at Culver Boulevard I
Figure 6-2. Plan view with diversion configuration and utilities II
Figure 6-3. Map of existing utilities from survey III
Figure 6-4. Plan details of proposed diversion configuration IV
Figure 6-5. Detail drawing of recommended filtration unit V
Figure 6-6. WSPG results for Harter Ave drain VI
Figure 6-7. WSPG results for Sepulveda Blvd drain VII

APPENDICES

APPENDIX A: DETAILED DRAWINGS AND SITE LAYOUT I

APPENDIX B: EXISTING UTILITY PLANS III

APPENDIX C: DIVERSION LAYOUT PLANS IV

APPENDIX D: FILTRATION UNIT DETAIL DRAWING V

APPENDIX E: WSPG DIVERSION STRUCTURE ANALYSIS VI

APPENDIX F: GEOTECHNICAL INVESTIGATION REPORT ADDENDUM NO. 1 VIII

ACRONYMS/ABBREVIATIONS

Acronyms/Abbreviations	Definition
BC	Ballona Creek
BMPs	Best Management Practices
EPA	Environmental Protection Agency
EWMP	Enhanced Watershed Management Program
LACDPW	Los Angeles County Department of Public Works
LACFCD	Los Angeles County Flood Control District
LiDAR	Light Detection and Ranging
LSPC	Loading Simulation Program C++
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
RAA	Reasonable Assurance Analysis
SUSTAIN	System for Urban Stormwater Treatment and Analysis Integration
TMDLs	Total Maximum Daily Loads
WMA	Watershed Management Area
WMMS	Watershed Management Modeling System
WSPG	Water Surface Profile Gradient

1.0 INTRODUCTION AND EXISTING CONDITIONS

The Ballona Creek Watershed Management Group (BC EWMP Group) is comprised of the cities of Los Angeles, Beverly Hills, Culver City, Inglewood, Santa Monica, West Hollywood, the Unincorporated County of Los Angeles, and the Los Angeles County Flood Control District (LACFCD). The BC EWMP Group was formed in response to provisions of National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit Order No. R4-2012-0175 (Permit). The BC EWMP Group, through a cooperative and collaborative process, developed an Enhanced Watershed Management Program (EWMP) for the BC Watershed Management Area (WMA) to address Total Maximum Daily Loads (TMDLs) for the water bodies associated with the Ballona Creek Watershed. The Final BC EWMP was subsequently approved by the Los Angeles Regional Water Quality Control Board on April 20, 2016.

The BC EWMP identified a network of watershed control measures and structural Best Management Practices (BMPs) to address the water quality objectives within the watershed. Top tiered projects were also identified in the EWMP and recommended by the BC EWMP Group for implementation. The Culver Boulevard median site, as one of the top tiered projects for implementation, is owned by Culver City and is located within public right-of-way along Culver Boulevard between Huron Avenue and Sepulveda Boulevard. The Culver Boulevard site has the potential opportunity to provide significant water quality benefits for both Culver City and other jurisdictions within the watershed due to the drainage area, location of adjacent storm drains, and available development space.

As a major step towards implementing the EWMP, Culver City seeks to design and implement a regional stormwater capture facility within the Culver Boulevard median. The primary design goal of the Culver Boulevard project is to reduce long term annual loading of pollutants to the BC WMA using zinc as the limiting pollutant of concern in the analysis as established by the EWMP for this watershed group.

1.1 PROJECT OBJECTIVES

The objective of this report is to provide Culver City with 30% design-level documents that will ultimately guide the development of the 100% detailed design documents. The preliminary design concepts presented herein will be optimized to meet the needs of the BC EWMP Group, as demonstrated by the supporting hydrologic, hydraulics, and water quality analytics. The design objectives included addressing both the magnitude of stormwater runoff from BI 2901-U2 Line B storm drain (referred to herein as Harter Ave drain) and Culver City – Unit 4 Line A, I (referred herein as Sepulveda Boulevard drain), as well as the pollutant loading within the respective drainage areas. Both drainage assets outlet directly to Ballona Creek, offering a good opportunity to intercept runoff before it discharges to the main stem of the watershed. Diversion rates from the two stormwater conveyances will be optimized with BMP size and discharge rate back into the Harter Ave drain after treatment. The primary design goal of the Culver Boulevard project is to reduce long-term annual loading of pollutants to the Ballona Creek Watershed using zinc as the limiting pollutant of concern in the analysis as established by the EWMP for this watershed group.

1.2 EXISTING SITE CONDITIONS

The Culver Boulevard median between Sepulveda Boulevard and Elenda Street has a footprint of approximately 2.2 acres per initial EWMP potential project assessment and is within the jurisdiction of Culver City (***Figure 1-1***). Initial site investigations in conjunction with municipal and community input indicated that a maximum project footprint of 1.6 acres would be advisable to meet broader area redevelopment criteria. This area served as the maximum project footprint in BMP optimization analyses. Other design constraints are detailed further in the following sections.

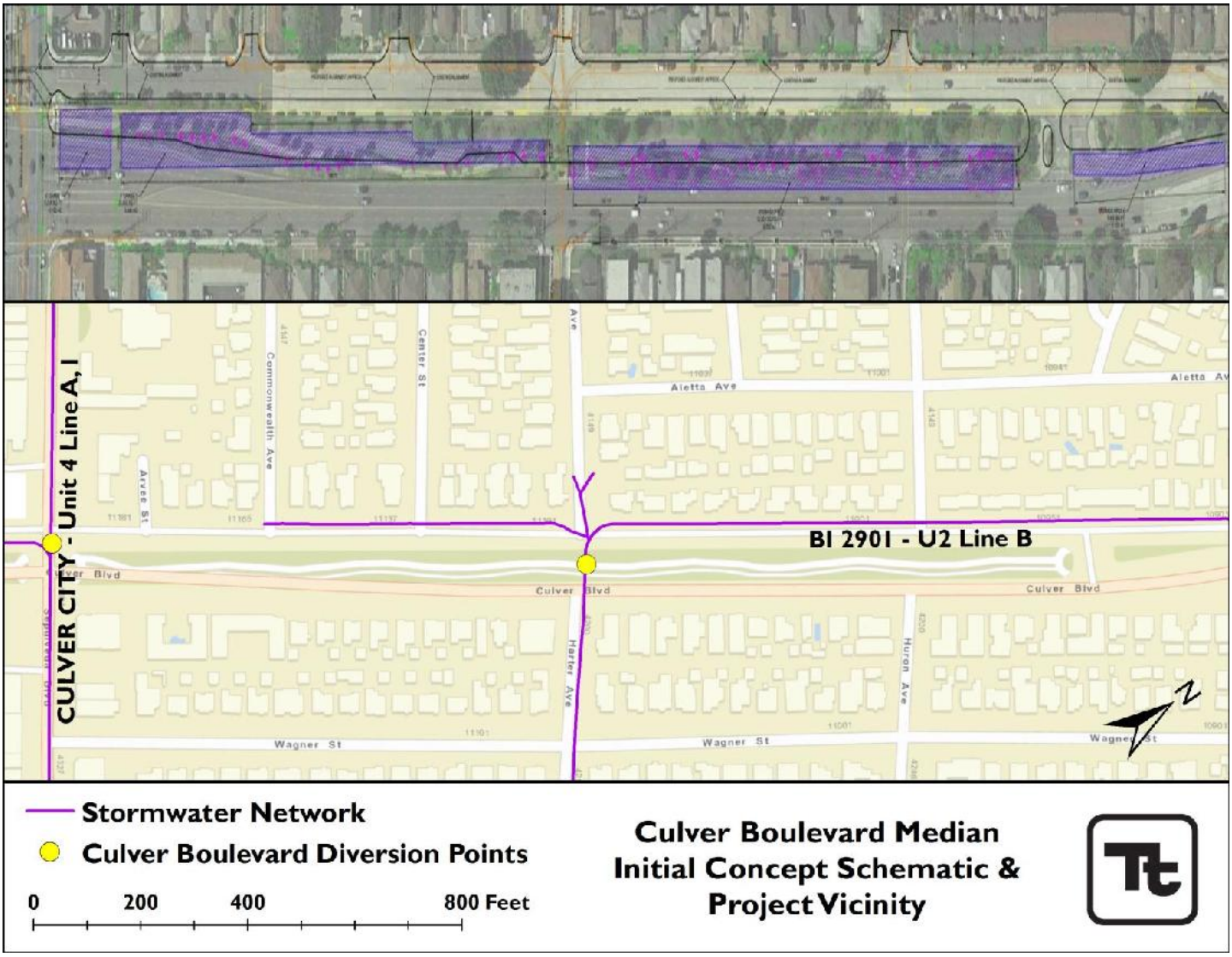


Figure 1-1. Initial concept schematic and vicinity map for Culver Boulevard

1.2.1 Utility Data Review, Survey, and Utility Mapping

The existing topographical survey information was compiled by the team using a combination of sources. A base file provided by Kimley-Horn contains an aerial survey performed by Central Coast Aerial Mapping, Inc. on October 5, 2012. A supplemental field survey was performed on May 21, 2018 through May 23, 2018 by Tetra Tech. Additional information was gathered using aerial photographs and site visits.

To locate all the existing utilities in the Culver Boulevard Stormwater Capture Project area, several sources were utilized. LACDPW's Storm Drain System Geodatabase was used to located storm drain systems at the project site location. To verify the locations of existing utilities such as water, cable, telephone, gas, and electricity, utility information request letters were sent to the utility purveyors in the area. The utility purveyors are listed in ***Table 1-1***. Utility responses from Airtouch Cellular, Culver Connect, SCE Trans Telecom, SC Edison Metro West Transmission, Torrance Logistics, and LADWP (water) are still outstanding, and will be updated as they are received. The information obtained from LA County, record drawings, and responses from utility purveyors were then compiled into an AutoCAD base map.

Table 1-1. Utility Purveyors

Utilities	Name of Company	Notified	Responded	Facility Presence
Communications	Airtouch Cellular	5/1/2018	-	-
	AT&T Distribution	5/1/2018	5/21/2018	No
	AT&T Transmission TCA	5/1/2018	5/18/2018	Yes
	Charter Communications	5/1/2018	5/2/2018	Yes
	Culver Connect	5/1/2018	-	-
	Frontier	5/1/2018	5/15/2018	Yes
	MCI (Verizon Business)	5/1/2018	5/21/2018	Yes
	SCE Trans Telecom	5/1/2018	-	-
	Wilshire Connection	5/1/2018	5/2/2018	Yes
	XO Communications	5/1/2018	5/2/2018	Yes
Electric	LADWP	5/1/2018	5/15/2018	No
	SC Edison Metro West Transmission	5/1/2018	-	-
Oil/Gas	Shell Oil	5/1/2018	5/3/2018	No
	Torrance Logistic CO/PBF Energy	5/1/2018	-	-
Water	LADWP	5/1/2018	-	-
	So. Cal Water (Golden State Water)	5/1/2018	5/3/2018	Yes

Outside of the utility request performed, Tetra Tech received Southern California Gas (So Cal Gas) Company utility data from the City. The provided map indicates an existing 16-inch gas line located near the Harter Ave drain diversion. Special coordination with So. Cal Gas will be required during the detailed design and construction phases of the project to ensure proper setbacks are provided and safe construction practices are implemented. The existing 16-inch gas line may impact the proposed underground storage tank footprints presented in this report.

Also, outside of the utility request performed, Tetra Tech received Metropolitan Water District utility data from the City. The provided as-built shows an existing 94-inch steel water line located along Sepulveda Boulevard running parallel to the existing Sepulveda Channel. A closer look at the inverts of the existing Sepulveda Channel and existing water line will be necessary with Option 2 (which includes a diversion from Sepulveda Channel). Special coordination is required during the detailed design phase. All existing utilities included in the design of this project, as well utility crossings that may pose a conflict in the design stage should be pothole verified.

1.2.2 Geotechnical and Soil Contamination Investigations

A geotechnical engineering evaluation for the project was conducted to evaluate the subsurface conditions at the site and to provide recommendations for the design and construction of the proposed improvements. The evaluation included subsurface investigations to approximate depths of 15, 30, and 50 feet. Details regarding the field exploration process, sampling and drilling procedures, laboratory testing, standards and equipment used, and the findings from the evaluation are provided in the Preliminary Geotechnical Engineering Investigation (Kimley-Horn, 2015; Appendix F). This report section summarizes the findings from the geotechnical evaluation specifically related to the onsite soil types, historic groundwater levels, and native soil infiltration. General design recommendations are provided based on the review of this report.

1.2.2.1 Existing Soil Types

Based upon the findings in the subsurface investigation, the project site is mantled by artificial fill soils which were encountered across the entire site. The thickness of the fill materials ranged from approximately 2.5 to 3 feet below the existing surface and were typically composed of dark brown to yellowish brown sandy clay and clayey sands that are fine grained, moist, and stiff/medium dense.

The fill soils are underlain by native alluvial soils down to the maximum explored depth of 50 feet below the ground surface. The native alluvium consisted of interlayered mixtures of sand, silt, and clay.

1.2.2.2 Groundwater

According to the State of California Hazard Report for the Beverly Hills 7.5-minute Quadrangle (CDMG, 1988, Revised 2005), the historic high groundwater level near the site has been mapped at depths ranging between 12 and 18 feet. However, it is recognized that the CDMG groundwater contours are based on early 20th century water well logs (Mendenhall 1905, Conkling, 1927) and also include water measurements from wells from the Central Basin Investigation (State Water Resources Board, 1952), Department of Water Resources (circa 1940's) which reflect conditions previous to massive infrastructure and urban development that has taken place in the last 50 years and therefore they do not correspond to or apply to current conditions and circumstances. Geotechnologies, Inc. installed three groundwater monitoring wells near the site to observe actual conditions. Groundwater was encountered in Geotechnologies' exploratory borings at a depth of approximately 28 feet at boring B3, to approximately 50 feet at borings B6 and B9 (***Figure 1-2***). It is Geotechnologies' opinion that the groundwater observed at B3 is not the static groundwater level, but a heavy, localized, perched water condition created by the fine and relatively impervious soils encountered below a depth of 22.5 feet. Therefore, the static groundwater level can be characterized by borings B6 and B9 at 50 feet deep. See Appendix F for the full Preliminary Geotechnical Engineering Investigation from Geotechnologies.

Tetra Tech's assessment of well data for nearby wells from the Los Angeles County Department of Public Works (LACDPW) database (http://dpw.lacounty.gov/general/wells/) and from the database from Geotracker (http://geotracker.waterboards.ca.gov/map/) indicates the groundwater depths as summarized in ***Table 1-2***. Based on Tetra Tech's Geotechnical Report Addendum No. 1, the water levels at well 1290P are not representative of the site (due to proximity to Ballona Creek), but have been deeper that about 21 feet within the last 50 years. It is Tetra Tech's recommendation that a groundwater depth of 21 feet may be considered for the infiltration facilities. Fluctuations in the groundwater level, localized zones of perched water, and increased soil moisture content would be anticipated during and following the rainy season. Variations to depth may occur due to rainfall, temperature, and other factors not evident at the time of measurement. Based on the research and observed conditions, the invert depth of the capture unit will be constrained so that it is a minimum of 10 feet above the observed groundwater depth over the project footprint in accordance with the LA County Department of Public Works guidelines (GS200.2).

Table 1-2. Groundwater wells in the vicinity of Culver Boulevard

Well Identification	Monitoring Period	Approximate Location Relative to the Site	Shallowest Groundwater Depth
LACDPW Well ID 1290P State # 2S15W13P07	February 1996 To April 2015	0.7 miles to the southwest	19 feet on September 2000 (deemed irrelevant due to proximity to BC)
LACDPW Well ID 2578X State # 2S15W11F05	January 1954 to September 2009	1.1 miles to the northwest	89 feet on November 1999
LACDPW Well ID 2578AA State # 2S15W11F08	July 1964 to September 2010	1.1 miles to the northwest	66 feet on November 2008

Geotracker well cluster T0603703279	March 2002 To November 2009	0.3 miles to the northeast	21 feet on March 2005
Geotracker well cluster T060375478, MW6 - MW8	September 2002 to November 2013	0.16 miles to the southwest	24.6 feet on April 2008

Figure 1-2. Groundwater Monitoring Well Boring Locations

1.2.2.3 Infiltration

Onsite infiltration rates were measured at 5 locations to determine the feasibility of installation of a stormwater infiltration facility. Within the footprint of the unit, values ranged from 0.8 in/hr. to 2.4 in/hr. The adjusted infiltration rates take into account reduction factors of 2.0 for the testing method, 1.25 for the site variability, and 2.0 for long-term siltation and plugging. Based on an analysis of the adjusted infiltration rates, a design infiltration rate of 0.8 inches/hour is recommended. See Appendix F for Tetra Tech's Culver Boulevard – Geotechnical Report Addendum No. 1 for more details.

1.2.2.4 Liquefaction Susceptibility

Based on the review of the Beverly Hills Quadrangle Official Map of Seismic Hazard Zones (CDMG, 1999), the proposed development is located within an area identified by the State of California as subject to the hazard of liquefaction. Because the site is in a mapped area where the potential for liquefaction exists and due to the increase in the code-prescribed seismic demand since the Seismic Hazard Maps were generated, a field investigation and analyses were performed to evaluate the site liquefaction potential per SP117A. The site-specific analysis utilized the 1996 NCEER method of analysis, which is based on the correlation between the values of Standard Penetration Test (SPT) resistance and field performance data. ***Table 1-3*** summarizes both the observed and calculated parameters for the liquefaction analysis. Based on the results from Geotechnologies' site specific liquefaction analysis found in Appendix F, the site soils would not be prone to liquefaction during the ground motion expected during the design-based seismic event.

Table 1-3. Liquefaction Analysis Parameters

Parameter	Value
Groundwater Depth	13 feet
Peak Ground Acceleration (PCA)	0.69g
Modal Magnitude (M_W)	6.6
Site Class	D
Shear Wave Velocity	230 m/s

1.2.2.5 Summary

Based on the results of the field exploration and engineering analyses, it is Tetra Tech's opinion that the proposed construction is feasible from a geotechnical standpoint, provided that the recommendations contained in the Preliminary Geotechnical Engineering Investigation and the Geotechnical Report Addendum No. 1 are incorporated into the design plans and implemented during construction.

2.0 REGULATORY CONTEXT

This section briefly introduces the regulatory background driving the regional stormwater facility at Culver Boulevard, and discusses strategies for pursing compliance with the regulations.

2.1 BALLONA CREEK WATERSHED EWMP AND WATER QUALITY DRIVERS

As discussed, the BC EWMP Group was formed voluntarily to address the requirements of the MS4 Permit and TMDLs for the associated water bodies collectively among associated jurisdictions for a more concerted watershed-scale approach. The Group's EWMP focuses on meeting water quality priorities with a mix of structural and non-structural stormwater management practices in line with prescribed benchmarks over time. A blueprint for meeting these benchmarks with appropriate practices has been established as part of the EWMP through a Reasonable Assurance Analysis (RAA) that demonstrates the ability for participating jurisdictions to meet water quality targets though proper stormwater practice implementation. The outcome of the RAA is a compliance pathway to assist jurisdictions in planning as it contains both temporal and spatial guidance for when and where different stormwater controls need to be implemented to meet requirements.

Culver Boulevard is located adjacent to both two large storm drains that make this an opportunistic project location to provide water capture and water quality benefit. The Harter Ave drain, a 66-inch reinforced concrete pipe (RCP),

collects runoff solely from within Culver City jurisdictional bounds (***Figure 2-1***). The Sepulveda Boulevard drain is larger (87" reinforced concrete arch) and collects stormwater from Culver City and areas of City of Los Angeles further upstream. Because of this, any stormwater capture facility designed for this site should seek to address water quality in both drainage areas commensurate to compliance recommendations from the RAA. Pollutant load reductions have been identified for each subwatershed used in RAA modeling, and these have been summarized in the first line of ***Table 2-1***. These figures represent the pollutant reductions required by the RAA for these subwatersheds by all recommended BMP types, so this figure represents a maximum target for this project if feasible. Runoff storage required by the RAA has been broken into BMP types, and the required storage volumes for stormwater capture units like this project (regional BMPs) are summarized in line 2 of ***Table 2-1***. Because the drainage areas to this project are smaller than the total RAA subwatershed areas that coincide with it, it may not be possible to fully meet both or either of these runoff and water quality goals with just this project, but this will be determined in optimization modeling. The portion of the RAA subwatersheds that are covered by drainage areas to Culver Boulevard are noted in line 3 of ***Table 2-1*** to provide a gage for the magnitude of treatment that might be needed for this site. Optimization analysis will attempt to meet or exceed these targets where feasible.

Table 2-1. Summary of Compliance Targets by separate drainage areas

RAA Recommendations to Achieve Final Compliance with BMPs	Harter Ave drain	Sepulveda Boulevard drain	
	Culver City	Culver City	City of LA
Percent Load Reduction (Zn) for Critical Condition	92%	91%	21%
Recommended Regional BMP Volume per EWMP Implementation Plan (ac-ft.)	6.20	4.70	3.19
Portion of RAA Subwatershed covered by Culver Boulevard drainage areas	54%	18%	61%

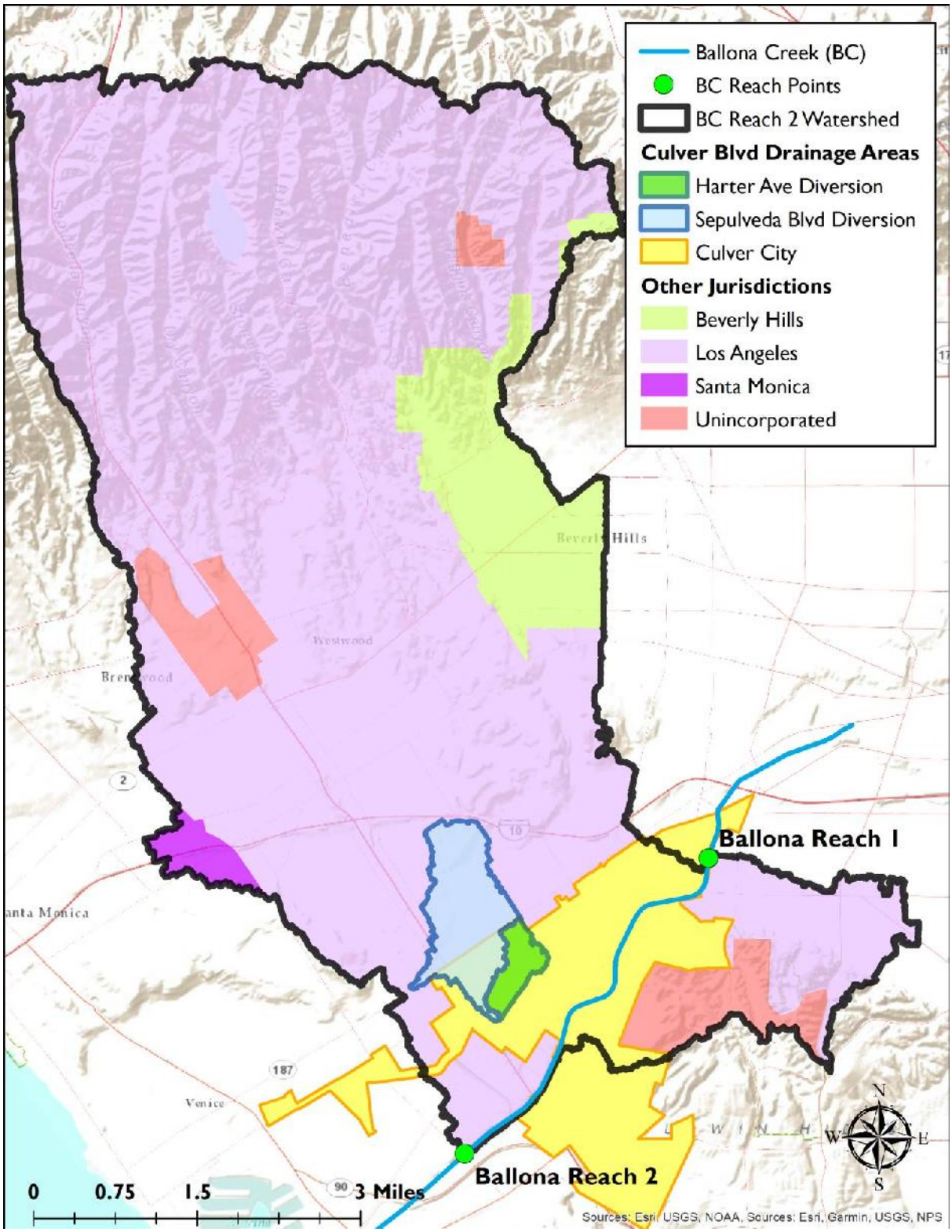


Figure 2-1. Map of project drainage areas in the context of surrounding jurisdictions and the Ballona Creek Reach 2 watershed

2.2 LOCAL WATER SUPPLY CONSIDERATIONS

Although water quality improvement is the primary motivation for this project, local water supply augmentation presents ancillary benefit. Storage and treatment of non-stormwater runoff for local non-potable use to offset irrigation demands for a nearby local park (Veterans Memorial Pak) will be considered in this design. This option will require that the stormwater is screened and filtered so it does not clog the subsurface drip irrigation.

3.0 DECISION SUPPORT MODELING

The purpose of the Culver Boulevard project is to maximize pollutant and stormwater capture; therefore, alternative system configurations were modeled to quantify potential performance. The performance of the project is dependent on the number of configuration options as well as site constraints that determine the range of options available for the stormwater capture unit. The following sections briefly summarize the strategy to most accurately simulate these realistic engineering constraints, while optimizing the system configuration to provide the most cost-effective recommendation that best meets the goals of runoff capture, water quality benefit, and water reuse.

3.1 BASELINE CONDITIONS AND CONSTRAINTS

The following subsections summarize the compliance metrics, baseline runoff and pollutant loading, onsite non-potable water demand, and groundwater considerations used to inform the modeling.

3.1.1 Stormwater Compliance Metrics

In accordance with the MS4 Permit, the BC EWMP Group emphasized that stormwater capture projects be sized, where feasible, to meet the compliance targets of the RAA contained within the EWMP. These criteria include capture of wet-weather for specified critical storms to address overall water quality compliance and dry-weather runoff as well for the bacteriological concerns associated with it. Additionally, assessing performance using long term metrics provides higher certainty that the recommended configuration will achieve water quality improvement and satisfy the requirements of the MS4 Permit. Therefore, long-term pollutant load reduction was also used as a metric to optimize the system configuration. Zinc was deemed the limiting pollutant for the BC EWMP Group and formed the basis for water quality benefit assessment of wet-weather flows. Emphasis was placed on the full capture of dry-weather runoff to address bacteria concerns. To achieve optimal results accounting for both drainage areas that will be addressed at the Culver Boulevard project, a balanced approach between capture of the critical storm as well as longer-term water quality benefits formed the basis for determining the optimal BMP configuration at this site. This two-pronged compliance analysis provides a more robust demonstration that the project configuration will attain comprehensive yet cost-effective pollutant reduction, and will perform in the long term under variable storm types and sizes.

3.1.2 Watershed Characterization

For this study, the Los Angeles County Watershed Management Modeling System (WMMS) was used within the Loading Simulation Program C++ (LSPC) to simulate the contaminant loading, runoff volume, and flow rate associated with a long-term, continuous time series (Water Year 2002 to Water Year 2011). The WMMS is accepted by the Los Angeles Water Quality Control Board for performance of compliance analyses in the context of EWMP development.

The drainage area delineation for each of the diversions at the Culver Boulevard site, shown in ***Figure 3-1***, was provided in the EWMP. Digital stormwater pipe inventories and high-resolution Light Detection and Ranging (LiDAR) elevation data were used to verify and refine these areas and provide additional local drainage conditions for analysis. Drainage areas were then used to model baseline runoff and water quality timeseries' over the 10-year period. This baseline data formed the inputs for BMP performance modeling to optimize different configuration variables that impact the overall performance of the BMP.

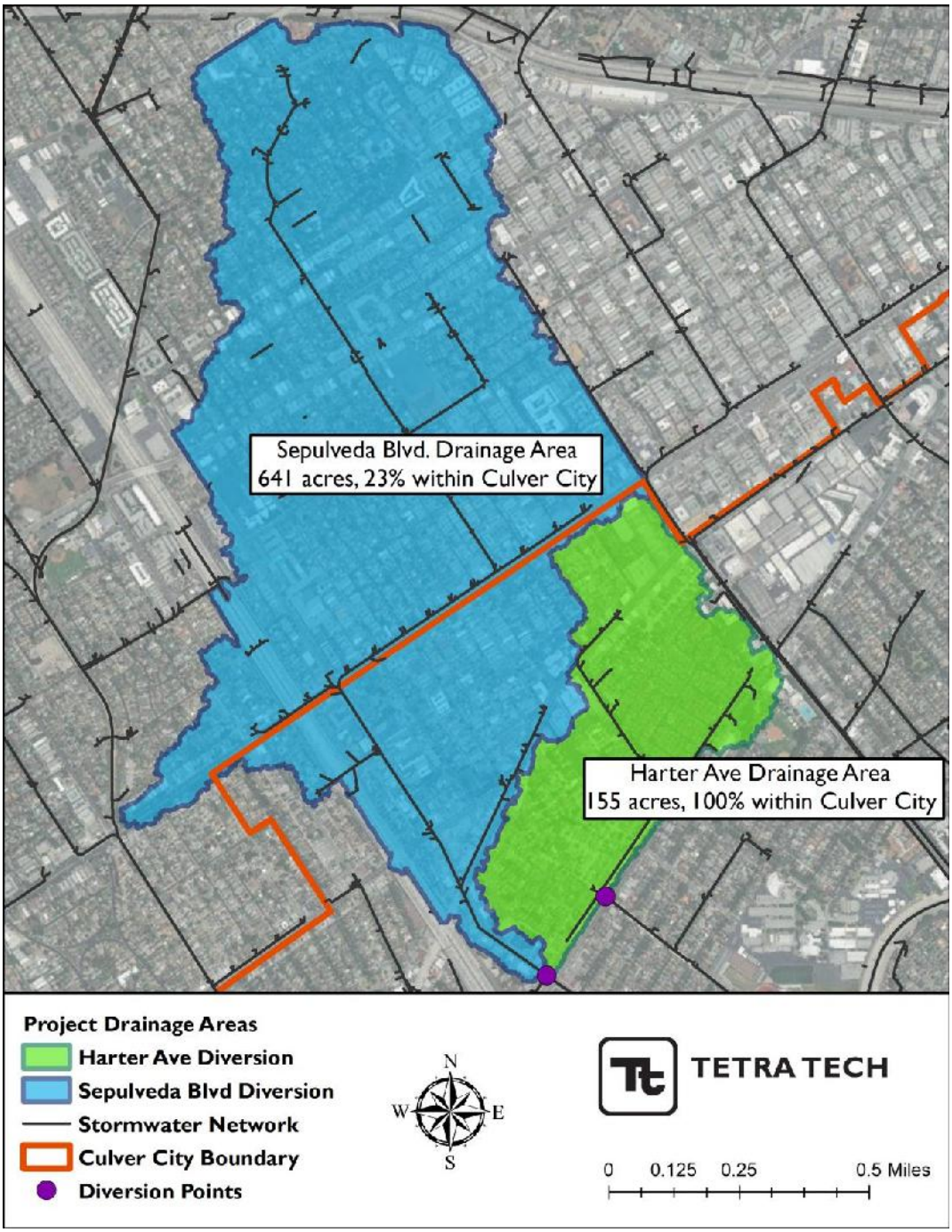


Figure 3-1. Drainage areas to Culver Boulevard diversion points

Long-term baseline flows and pollutant loads to the site are also summarized by drainage area in ***Table 3-1***. The total loadings presented in this table represent the maximum possible reductions that could be achieved by control measures at Culver Boulevard, albeit pragmatic diversion limitations, space constraints, and subsequent treatment mechanisms will ultimately limit how much runoff and pollutant mass can potentially be diverted (as further discussed in section 3.2). Critical storm statistics were summarized from the baseline modeling as well for the storm event identified in the RAA. These provide a basis to evaluate how well recommended BMPs will be able to move the EWMP group towards overall compliance.

Table 3-1. Summary of contributing drainage area, baseline runoff, and pollutant loads

Diversion Drainage	Total Tributary Area (ac)	Average Annual Runoff (ac-ft.)	Average Annual Zn Surface Flux (lb)	Critical Storm Surface Runoff (ac-ft.)	Critical Storm Peak Flow (cfs)	Critical Storm Zn Surface Flux (lb)
Harter Ave drain	155	76.9	50.2	5.73	17.4	2.81
Sepulveda Blvd drain	641	408	255	29.4	81.7	14.5
Total	**796**	**485**	**305**	**35.1**	**NA**	**17.3**

3.1.3 Irrigation Potential Baseline Water Demand Estimation

One potential fate of captured stormwater is re-use to offset non-potable uses such as irrigation. Irrigation use for the Culver Boulevard median is anticipated to be minimal due to the drought resistant landscaping, so other opportunities nearby were assessed as potential irrigation water recipients from the proposed stormwater capture facility. Veterans Memorial Park is a local public park that is approximately 0.5 miles north along Culver Boulevard. Site-specific annual water-use data for Veterans Memorial Park was not available at the time of analysis, so the average annual water use per acre (in ac-ft.) was estimated based on data from multiple parks within the region. The overall average annual water use per irrigated park acre is estimated as 4.65 ac-ft. From a desktop investigation, there is approximately 6.0 acres of irrigatable area at Veterans Memorial Park, which would yield a demand of approximately 27.9 ac-ft. per year. This irrigation demand will be later compared with the dry-weather flow tributary to thus stormwater capture project to assess feasibility of this opportunity.

3.1.4 Groundwater Constraints

As discussed in Section 1.2 of this report, this project is feasible from a geotechnical standpoint, provided that the recommendations contained in the Preliminary Geotechnical Engineering Investigation and the Geotechnical Report Addendum No. 1 are incorporated into the design plans and implemented during construction. Infiltration rates and groundwater depth are the geotechnical parameters that were incorporated into the water quality optimization model to characterize the limitations associated with this site. An infiltration rate of 0.8 inches/hour is recommended for the design of a stormwater infiltration facility, and a groundwater depth of 21 feet should be considered for this design.

3.2 WATER QUALITY OPTIMIZATION STRATEGY

As discussed in preceding sections, the primary design goal of the Culver Boulevard project is to reduce long-term annual loading of pollutants to the Ballona Creek Watershed using zinc as the limiting pollutant of interest in the analysis as established by the EWMP for this Watershed Group. To ensure that the system will be sized to maximize load reductions in a cost-effective manner, optimization modeling was performed.

The purpose of optimization modeling is to balance design components (including BMP volume and inflow diversion rates) such that no one component limits the performance of the system subject to potential discharge options (***Figure 3-2***). Optimization supports decision making throughout the design process by guiding selection of the most cost-effective system design.

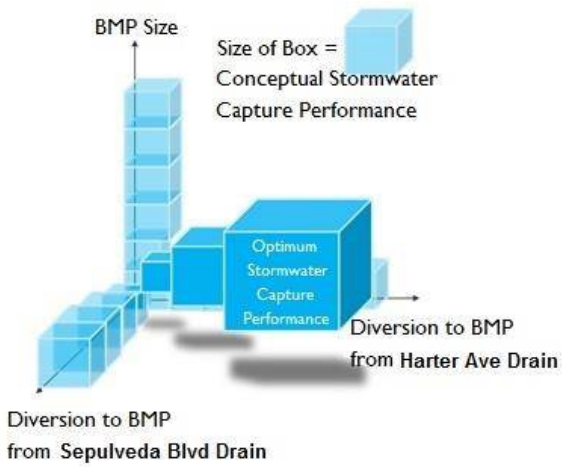


Figure 3-2. Optimization methodology

The model setup for water quality simulation and optimization is complex, involving several modeling systems and iterative feedback from design engineers. The general methodology is discussed below, and the results are presented in section 3.3.

3.2.1 Preliminary Size and Diversion Optimization (SUSTAIN)

The first step of modeling was to predict BMP performance for a range of potential BMP sizes, diversion inflow rates, diversion inflow mechanism (gravity vs. pump), and water-use alternatives (infiltration, onsite irrigation, or other discharge options). EPA's System for Urban Stormwater Treatment and Analysis Integration (SUSTAIN) model was used for this analysis because its built-in optimization algorithms automate the process of evaluating millions of different BMP configurations to select the most cost-effective solutions. The model was run using 10 years of runoff and pollutant loading time-series data generated by the WMMS at an hourly time-step. During this preliminary decision-support modeling, the BMP configuration alternatives were simulated using the following simplified assumptions:

- Diversion rates were varied up to a maximum of 50 cfs for BI2901-U2 Line B (Harter Ave drain) and 50 cfs for Culver City – Unit 4 Line A, I (Sepulveda Boulevard drain) representing feasible solutions based on the drainage areas and effective pretreatment of diverted stormwater to identify points of declining water quality benefit.
- Initial geotechnical investigations of the site reveled that groundwater depth and infiltration rate are constraining factors; therefore, discharge from the BMP was modeled up to 5.76 cfs to reflect feasible filtration rates for devices that can treat captured runoff to adequate standards for return to the Harter Ave drain.
- Stormwater capture heights were varied up to 10' over the maximum feasible BMP footprint (1.6 ac) dependent on the diversion inflow mechanism and the groundwater depth constraint associated with each configuration.

The preliminary optimization model runs produced cost-effectiveness curves that relate each combination of design components to the respective pollutant or stormwater capture performance. Each point in plots in this analysis represents a feasible BMP that could be built. These points form curves when only one variable is chosen to vary, and these curves are analyzed to determine the most cost-effective configuration for each of the variables in turn. Comparing the relative differences between various water-use scenarios allows decisions to be made regarding which scenarios to pursue with more detailed modeling, and which are not cost-effective.

3.2.2 Preliminary Scenarios Evaluated

As described above, a range of BMP alternatives were evaluated at the preliminary stage to determine which options would be the most cost-effective to pursue for watershed compliance. Three configurations were analyzed each with two scenarios as detailed further below. Some of the constraints of the project site, specifically the invert elevation of stormwater pipes combined with historically high groundwater observations, required a balanced approach to effectively utilize each water use option. Considerations were made to present these three general configurations to explore options that balanced the site constraints with diversion mechanism and water use options for captured runoff. Each of these configuration options require unique cost functions that scale differently related to other decision variables, thus necessitating a comprehensive assessment.

3.2.2.1 Two Scenarios

Two scenarios were analyzed that varied the drainage area tributary to the BMP. Because the drainage areas for each diversion point differ in size and the drainage area to the Sepulveda Boulevard drain extends beyond Culver City's boundary, it was desired to evaluate the project for these two areas separately. This is useful to not only isolate the benefits between the two diversion points for comparison but also to evaluate a project wherein 100% of the benefits would be attributable to runoff produced in Culver City if needed in addressing compliance targets. The two scenarios are as follows:

A. Considering the Harter Avenue drainage area only, which is 100% within the Culver City jurisdictional area
B. In addition to the Harter Avenue Drainage area, also considering the Sepulveda Boulevard drainage area, which is comprised of 77% City of Los Angeles jurisdictional area and 23% of Culver City jurisdictional area

The two scenarios were analyzed both to gauge the water quality benefit that Culver City would obtain given the smaller single-diversion project versus treating the full area and to determine which scenario would most cost-effectively satisfy runoff management goals at this location.

3.2.2.2 Three Configurations

The three general configurations analyzed varied by diversion mechanism, storage configuration, and outflow methods. The three configurations are summarized below:

1. ***Pumped Inflows, Infiltration***
   High groundwater conditions and diversion point invert elevations that do not provide enough vertical clearance from the water table for an infiltrative unit to properly function make groundwater recharge at this site difficult. To provide adequate clearance between the groundwater and an infiltrative vault, the vault must be sited at a higher elevation than gravity-fed inflows from the diversion points will allow. For this configuration, diverted runoff would be directed to a common wet well where large surface-level pumps would be required to lift the water to the height of the infiltration vault for capture and recharge. (***Figure 3-3***)
2. ***Gravity-fed Inflows, Filtration***
   To negate the use of large surface-level pumps, gravity-fed inflows to a vault structure at the required depth could be used. However, this vault would need to be sealed to prevent groundwater interaction, excavation would be much deeper, and filtration units would be used with smaller subterranean pumps to return filtered runoff to the Harter Ave drain following capture. (***Figure 3-4***)
3. ***Gravity-fed Inflows, Pump to Infiltration Chamber***
   As a balance between the two configurations, gravity-fed runoff would be directed to a deeper sealed vault for initial storage then lifted to an infiltration vault situated at a higher elevation by way of a small pump. The project site footprint would thus be balanced by sealed and infiltrative storage space with optimization determining the most cost-effective balance of this storage between the two separate units as well as pump rates between the two. (***Figure 3-5***)

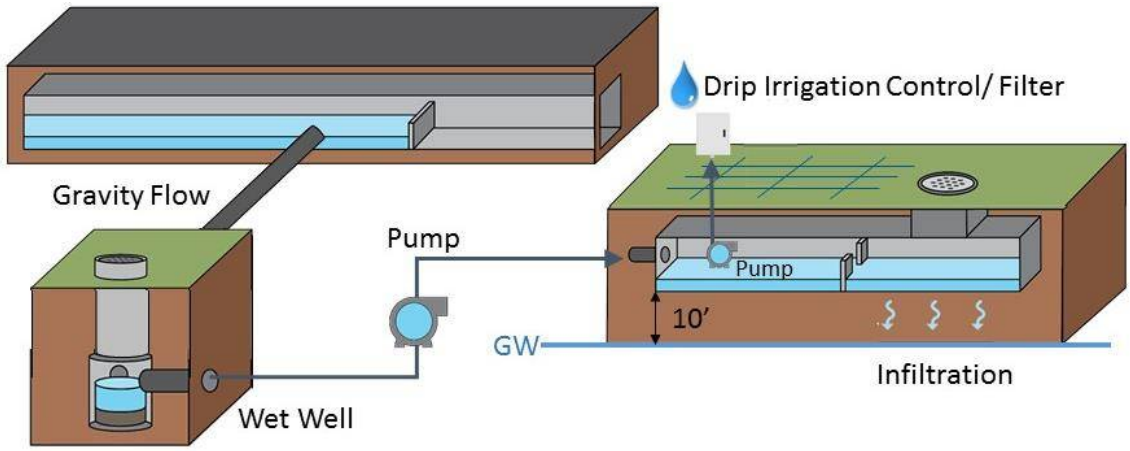


Figure 3-3. Configuration 1 Schematic

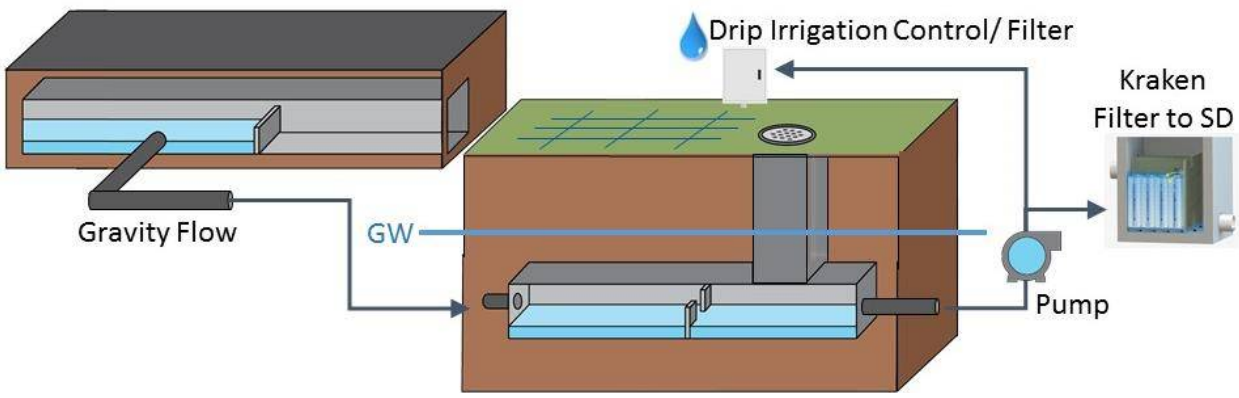


Figure 3-4. Configuration 2 Schematic

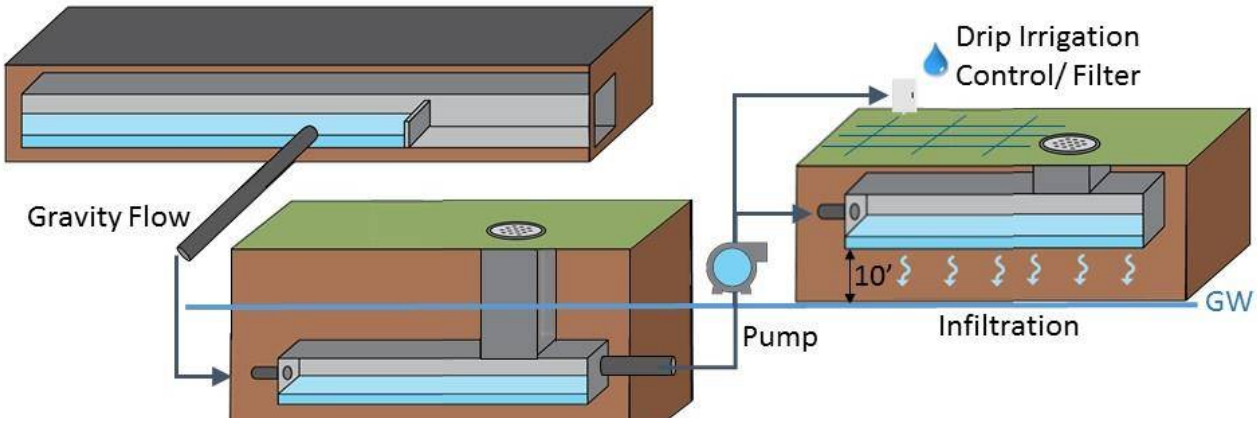


Figure 3-5. Configuration 3 Schematic

3.3 OPTIMIZATION MODELING RESULTS

The following subsections describe the results of the optimization modeling used to support the project design. The interactions between various aspects of BMP configuration were assessed against the long-term zinc reduction and project cost estimates that would be realized for each configuration/scenario to identify the most cost-effective options for the six alternatives (3 configuration x 2 scenarios). This process is described below with example plots to demonstrate the methodology used with the optimal results for the six alternatives summarized in Section 3.3.2.

3.3.1 Optimal BMP Recommendation Development

The pollutant load reduction for any given BMP is a function of both the upstream drainage area and the BMP sizing and configuration. Different drainage areas are associated with runoff and water quality dynamics that a BMP must manage. How well a BMP can manage incoming runoff and water quality is a function of how much stormwater is diverted to it, the volume of stormwater that it can store, and the rate at which water leaves the BMP via different water use options. Drainage areas for the Culver Boulevard project have been defined by the two scenarios diverting stormwater to the BMP from either the Harter Ave drain or additionally from the Sepulveda Boulevard drain. Pollutant reduction is optimized when the volume of stormwater that is captured is maximized. The total volume captured by the BMP will be restricted by (1) the size and costs associated with the diversion infrastructure and mechanism, (2) overall flow-through rates for infiltration or filtration devices that could be employed to treat stormwater to a sufficient level for return to the Harter Ave drain, and (3) the size of the BMP possible given the maximum site footprint (1.6 acres) that will have the least impact to the significant trees in the existing median. By optimizing based on these variables and other configuration components, multiple pathways to achieve the maximum water quality benefit were identified and the most cost-effective alternatives were investigated. Final recommendations for the six alternatives were determined through analysis of the following project-relevant components and constraints.

3.3.1.1 Non-Potable Water Storage for On-Site Irrigation Use

Dry weather runoff that is sourced from irrigation excess throughout the drainage area and other urban sources of non-stormwater discharge has the potential to be utilized in conjunction with stormwater capture units to provide an alternate non-potable water source to offset irrigation water use at the nearby Veterans Memorial Park, which is located approximately 0.5 miles north on Culver Boulevard. Hydrology modeling using LACFCD's WMMS incorporated urban irrigation and indicated an overall average dry-weather flow of 0.003 cfs (1.95 ac-ft. annually) for Harter Ave drain and 0.01 cfs (6.28 ac-ft. annually) for the Sepulveda Boulevard drain. These results show that although water storage through the stormwater capture unit may not be capable of entirely offsetting the annual estimated irrigation demand of 27.9 ac-ft., this provides potential for capture and re-use that would save on money spent for potable water. This opportunity is applicable to the configurations that include a sealed bottom tank. If desired, real-time controls could be utilized in the future to better manage stormwater runoff from the end of the wetter season as an irrigation asset if desired.

3.3.1.2 Diversion Rate into BMP

Typically, only a portion of incoming stormwater is diverted into the BMP via diversion infrastructure along the chosen inflow mechanism. This diversion rate can be set to a given flowrate based on the sizing of this infrastructure, with larger sizes being more expensive (though not on the scale of BMP storage volume, which is much more expensive). Additional consideration for diversion rate must be made for pretreatment, which is necessary to remove sediment or large particulates from stormwater before it enters the BMP. Normal pretreatment units are only effective to approximately 50 cfs. Diversion rates should be set high enough that the BMP storage volume is filled often and thus utilized, but not so high that more frequent storms would fill the BMP so fast as to render it incapable of capture of the dirtiest stormwater. The diversion rate can be plotted against the long-term pollutant reduction curves for all optimized scenarios to determine an optimal rate as shown in ***Figure 3-6***.

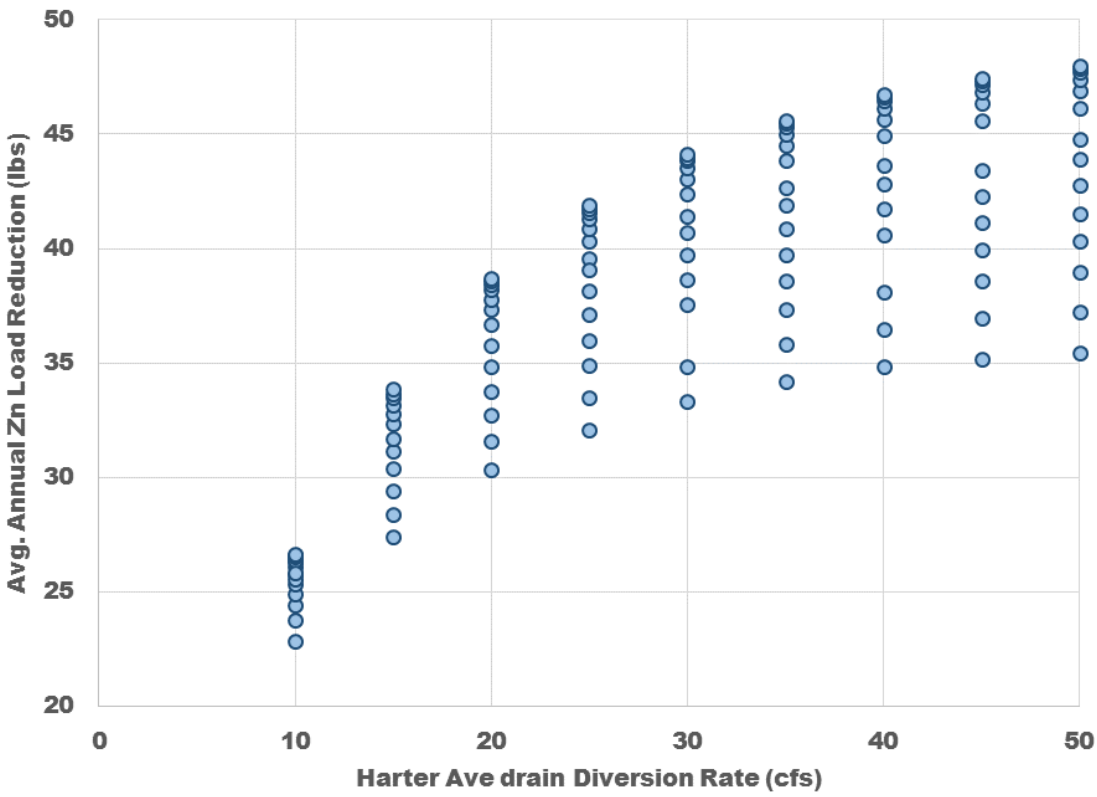


Figure 3-6. Diversion rate optimization for Harter Ave drain with variable BMP storage volume

The points in ***Figure 3-6*** represent all the different BMP configurations that were run in optimization and how water quality benefit varies with different diversion rates modeled. Though not explicitly related in the graph, you can see that these points generally form curves that are related to different BMP storage volumes that were modeled, so this relationship varies somewhat depending on other BMP variations. The choice of optimal diversion rate must be considered in terms of these other BMP variables to make the best overall choice, and the shape of these curves differs for each scenario and configuration. ***Figure 3-6*** was taken from analysis of the single-diversion scenario for the first configuration (Pumped inflows, infiltration), but the decision of diversion rate is more difficult when you consider the double-diversion scenario that diverts water from the Sepulveda Boulevard drain as well. For the additional diversion, it is often helpful to look at the relationship between pollutant load reduction and each diversion rate separately, but also in conjunction, to determine if there is an overall diversion rate that optimizes the system (***Figure 3-7***). Vertical variation in points in the example in ***Figure 3-7*** is based on BMP storage volume and the recommended BMP storage volume must be cross-referenced with this diversion rate analysis to iteratively come to the best configuration for the BMP. The example in ***Figure 3-7*** is for the double-diversion scenario of the second configuration (Gravity inflows, filtration) and indicates an overall diversion rate (for both pipes total) of about 50 cfs would be most effective for smaller BMPs while larger BMPs might see cost-effective pollutant reduction for even greater overall diversion rates.

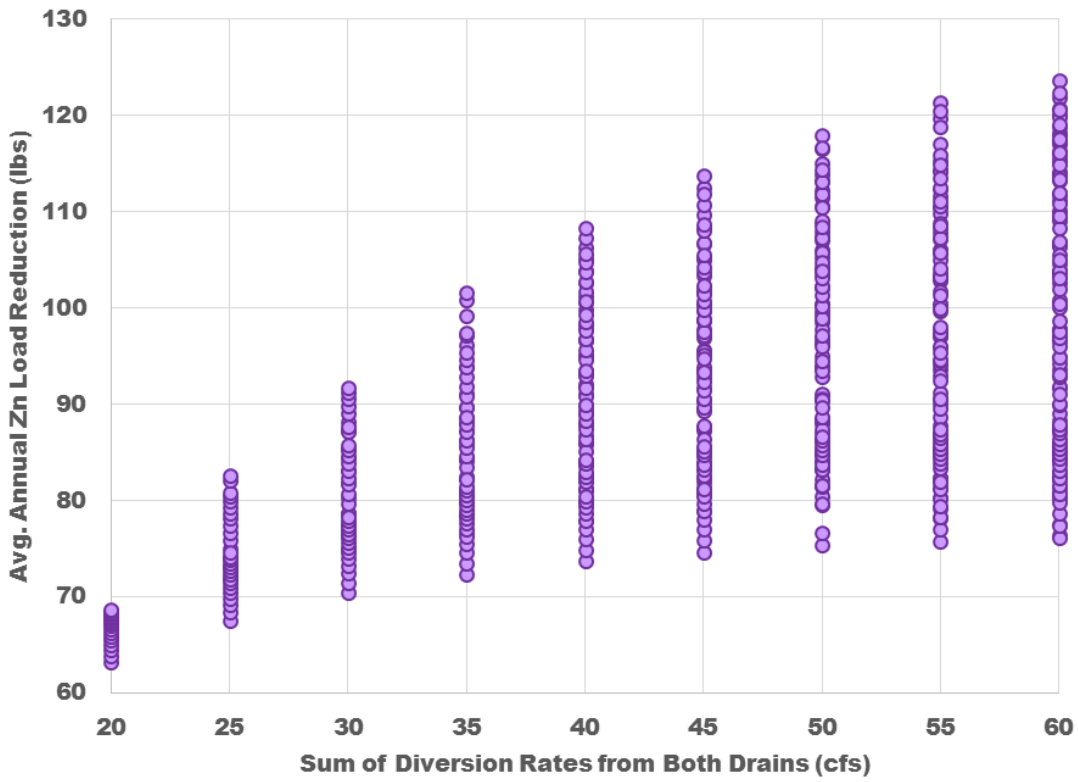


Figure 3-7. Joint optimization of both diversion rates with variable BMP storage volume

3.3.1.3 BMP Size – Optimal Volume and Footprint

In optimizing the BMP storage volume and footprint, the analysis is conducted in much the same way for diversion rates. The range of BMP storages modeled in optimization are plotted against the long-term pollutant load reduction to assess these relationships which are then iteratively compared to results from diversion rate analysis to determine the final BMP recommendation. The interplay between these two variables and how they are analyzed is well demonstrated in ***Figure 3-8***. This figure shows the results from the single-diversion scenario for the third configuration (Gravity inflows, pump to infiltration) plotted for three different diversion rates. Vertical variations for the same BMP footprint represent the different pump flowrates modeled to move water between the sealed and infiltrative vault components of this configuration. As you can see from this graph, when you examine any two variables in terms of pollutant load reduction, they each have a slightly different relationship and influence on the cost-effectiveness curves. These relationships are evaluated in terms of cost as well though this is not displayed, and BMP storage volume typically represents the largest portion of cost. As demonstrated in ***Figure 3-8***, zinc load reduction starts to equilibrate for BMPs with footprints greater than 1.2 acres though this varies slightly depending on the diversion rate and pump rate.

As an example of how much cost can differ for BMP storage, ***Figure 3-9*** illustrates the difference in performance and cost associated with two alternative BMPs of differing depth. This plot illustrates the difference between two BMPs for the double-diversion scenario of the first configuration (Pumped inflows, infiltration). Both BMPs have the same footprint but vary by the depth of the vault, with the larger storing twice the amount of water as the smaller. Variations in each BMP alternative are based on diversion rates to them from the two stormwater pipes. While the larger BMP is associated with substantially more zinc load reduction, the cost is considerable and may not be warranted given other water quality improvement opportunities. While these costs are planning level estimates, this distinction again highlights the interplay between different project-related variables that must be balanced in making final recommendations in these large capital projects.

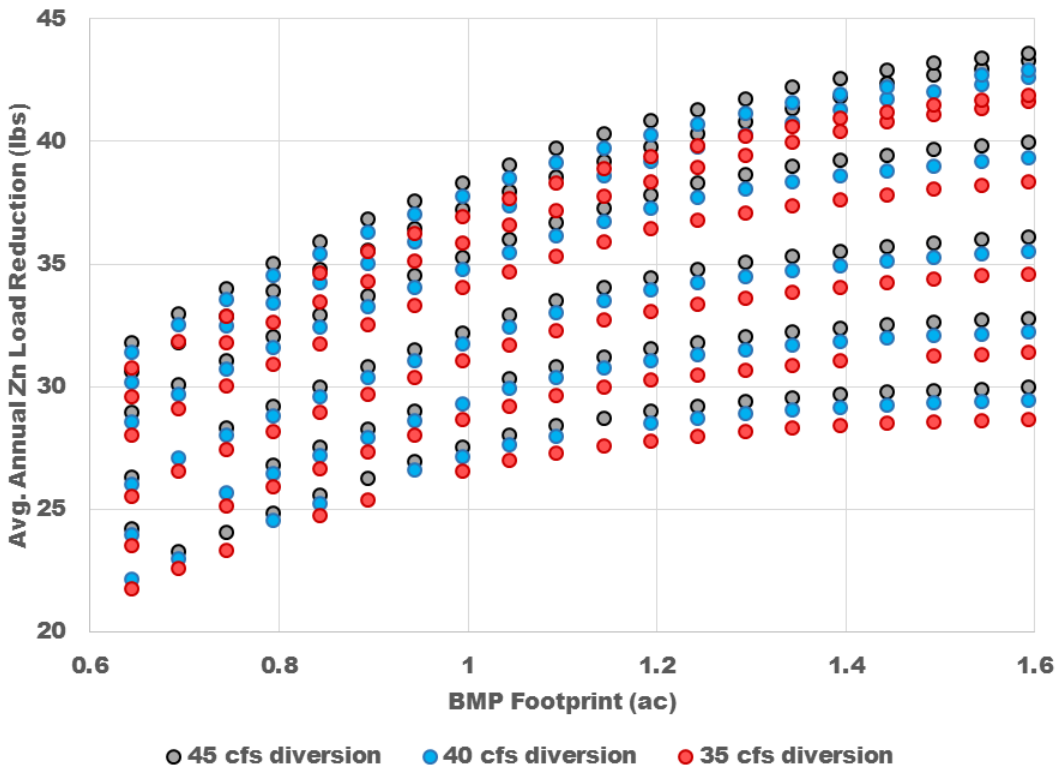


Figure 3-8. BMP footprint analysis for a third configuration alternative with variable pump rates

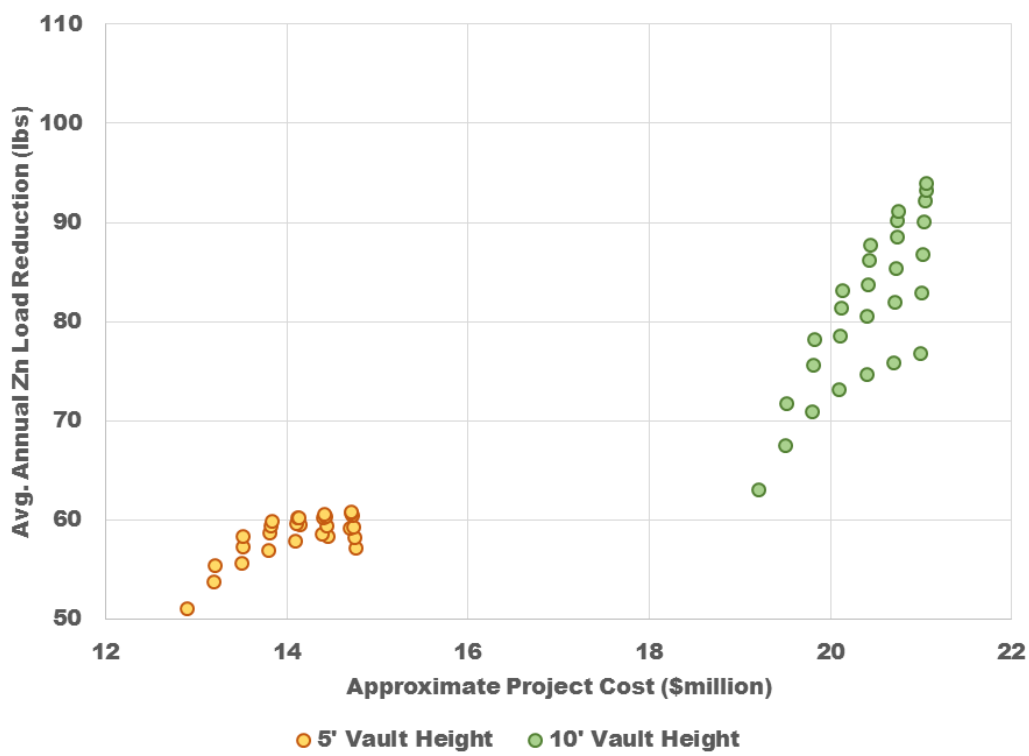


Figure 3-9. Cost vs. performance options must weigh into ultimate recommendations as illustrated in a plot of differing BMP heights, each with variable diversion rates for both points of diversion

3.3.1.4 Discharge Rates from the BMP

When infiltration is chosen as the captured stormwater use option, the throughput rate for the BMP is a function of local soils and thus defined by the design rate determined in the geotechnical investigation. However, when filtration is deemed necessary, throughput for the system can be determined by the filtration devices chosen to empty the BMPs storage volume. These devices come in a variety of sizes and multiple units can be employed to increase system throughput and thus increase long-term pollutant load reductions. Filtration rates up to 2.88 cfs for a single filtration unit are possible. For this analysis, three filtrations options were modeled for the second configuration in which infiltration was not utilized to divert water to the BMP via gravity. A smaller single unit (1.48 cfs filtration rate), a full-size single unit (2.88 cfs filtration rate), and two full-size units (totaling 5.76 cfs filtration rate) were chosen to represent feasible options for this project. Results for the single-diversion scenario are displayed in ***Figure 3-10*** and these results display the differences in pollutant load reduction that can be achieved across BMP size for the different filtration rates. Cost of filtration, maintenance, and available site space for these units was considered in the analysis and in developing BMP recommendations based on other project desires and outcomes.

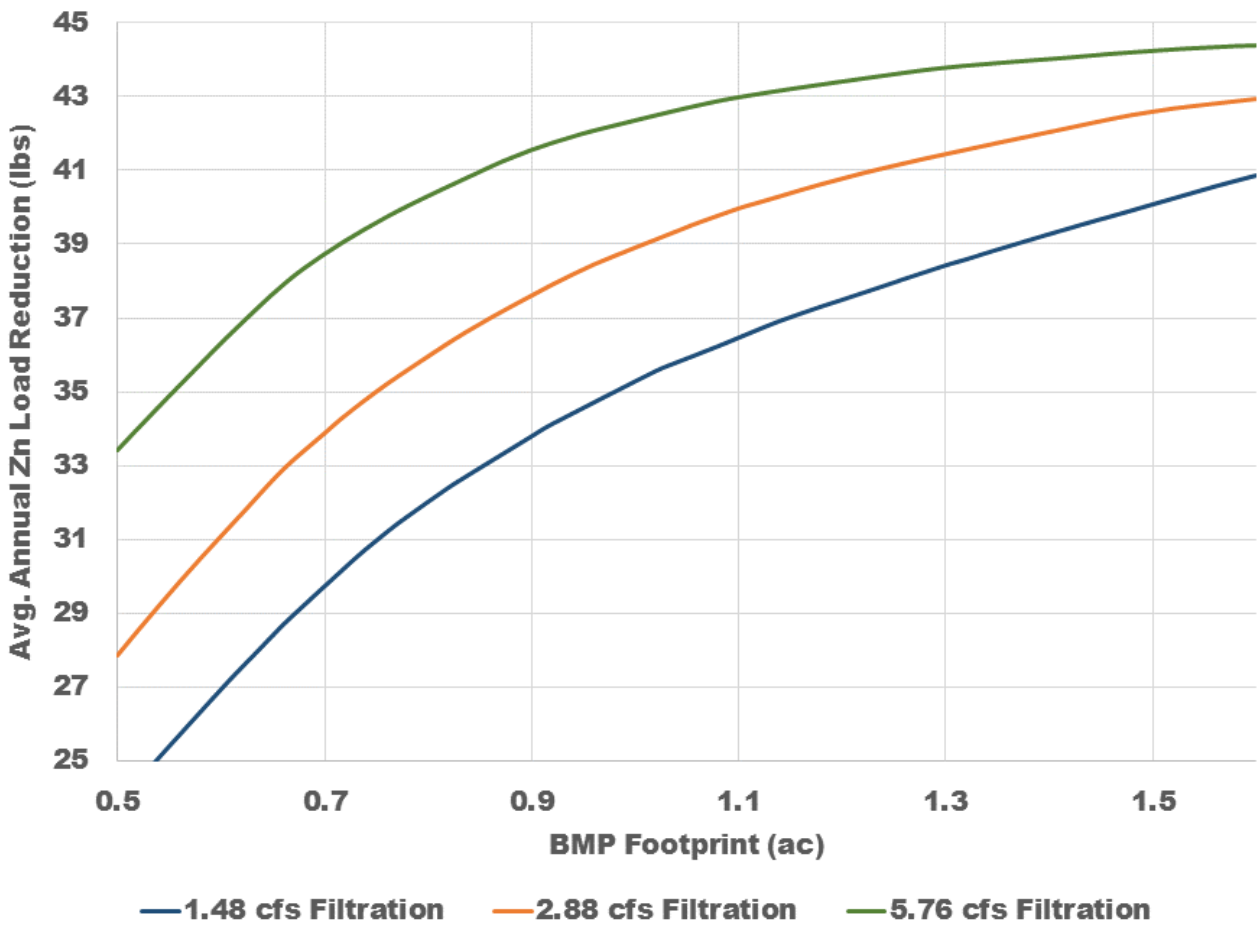


Figure 3-10. Differences in pollutant load reduction based on filtration rates for a single diversion rate configuration

3.3.2 BMP Recommendations for the Six Alternatives

The following details the optimized recommended BMPs for the six alternatives with a discussion of the merits of each to illustrate tradeoffs associated with the different configurations found in optimization analysis and facilitated by discussions with the City. A summary of the recommended BMPs is found in ***Table 3-2***.

3.3.2.1 Configuration 1 – Pumped Inflows, Infiltration Vault

Scenario A – Harter Ave drain diversion only

The recommended BMP for this alternative would feature a 40 cfs diversion from the Harter Ave drain to a 10' tall vault over a 1.1-acre footprint, providing 11.0 ac-ft. of storage. The footprint for this alternative was recommended as less than the maximum footprint due to limited runoff from the smaller Harter Ave drainage area.

Scenario B – Both Harter Ave and Sepulveda Boulevard drain diversions

The recommended BMP for this alternative features a 30 cfs diversion from the Harter Ave drain with a 20 cfs diversion from the Sepulveda Boulevard drain. Storage and footprint were reduced from the Scenario A alternative due to the higher runoff and pollutant load associated with the Sepulveda Boulevard drainage area. Pollutant load reduction increased for this alternative over the single-diversion scenario because capture of this runoff provides more long-term pollutant reduction. While much larger BMPs were modeled with even greater pollutant load reductions, these were associated with much higher costs. The final recommended option has similar costs as the Scenario A recommendation but much greater water quality benefit.

Configuration Drawbacks: While this configuration demonstrated intermediate pollutant load reduction efficiencies compared to the other configurations, it necessitates large surface-level pumps commensurate to the diversion rates that were determined to be undesirable by the City based on community feedback and long-term operations and maintenance concerns.

3.3.2.2 Configuration 2 – Gravity-fed Inflows, Filtration

Scenario A - Harter Ave drain diversion only

The recommended BMP for this alternative would again feature a 40 cfs diversion from the Harter Ave drain and a 10' tall vault utilizing a single 2.88 cfs filtration unit for return of captured stormwater to the Harter Ave drain. Cost effectiveness curves indicated the diminishing point of pollutant load reduction for a BMP of 7.0 ac-ft. This alternative is very similar to Alternative 1A in terms of cost and performance at a smaller footprint size.

Scenario B – Both Harter Ave and Sepulveda Boulevard drain diversions

The recommended BMP for this alternative would balance a total diversion rate of 50 cfs equally between the two drains (25 cfs diversion each). A cost-effective storage volume of 8.0 ac-ft. was identified utilizing a 10' tall vault. When this alternative is implemented with two filtration units (5.76 filtration rate total), it resulted in a considerably higher zinc load reduction than other alternatives.

Configuration Drawbacks: While the performance is the most cost-effective for this configuration, filtration requires ongoing maintenance of small pumps and regular filter cleaning that other alternatives do not need due to the use of infiltration.

3.3.2.3 Configuration 3 – Gravity-fed Inflows, Pumped to Infiltration Vault

Scenario A - Harter Ave drain diversion only

The recommended BMP for this alternative would again feature a 40 cfs diversion from the Harter Ave drain and a 10' tall vault over the maximum BMP footprint. The infiltrative vault would take up approximately 0.62 acres of this footprint and utilize a 0.75 cfs pump rate to move flows from the sealed portion into the infiltrative chamber.

Scenario B – Both Harter Ave and Sepulveda Boulevard drain diversions

The recommended BMP for this alternative would feature the same diversion apportionment as Alternative 1B and the same division of sealed/infiltrative vault space as Scenario A for this configuration. The only difference would be a slightly larger pump (1.0 cfs) to move water at the optimal rate to increase throughput for this option with a double-diversion.

Configuration Drawbacks: Performance for this configuration was in-line with other alternatives but at a much higher cost. This is due to the need to build-out over the maximum footprint in order to achieve throughput rates on par with other alternatives.

Table 3-2. Summary of recommended BMPs for six alternatives

Configuration/ Scenario	Harter Ave Diversion Rate (cfs)	Sepulveda Boulevard Diversion Rate (cfs)	Project Footprint (acres)	BMP Storage Volume (ac-ft.)	Approximate Project Cost ($ millions)*	Avg. Annual Zn Load Reduction (lbs)	$1,000/ pound Zn reduced
1A	40	NA	1.1	11.0	14.64	44.92	326
1B	30	20	0.8	8.0	14.71	60.91	242
2A	40	NA	0.7	7.0	14.41	42.06	343
2B	25	25	0.8	8.0	16.91	81.83	207
3A	40	NA	1.6	16.0	16.89	42.79	395
3B	30	20	1.6	16.0	17.04	63.43	269

* Project costs are planning-level figures for comparison of alternatives; more refined project cost estimates for the final recommended BMP are detailed in Section 5.

3.3.3 Recommended BMP Performance and EWMP Compliance Analysis

Based on the preceding optimization analysis, discussion of BMP configuration alternatives and scenarios, and following on discussions with the City concerning site constraints, community desires, and long-term operational considerations, Alternative 2B is the recommended BMP to meet the needs of this project with optimal cost-effective performance. ***Table 3-3*** contains a summary of the modeled performance metrics and ***Table 3-4*** shows EWMP compliance considerations that can be expected from this project upon implementation. The recommended BMP provides effective capture of runoff and zinc load reduction in the long-term, and while it is not able to fully meet RAA compliance targets for the overall drainage area, this is mostly due to the magnitude of the critical storm that exceeds feasible capture in both volume and peak flows for this specific project. A further breakdown of the water quality benefits for this BMP is found in ***Table 3-5***. For the Harter Ave drainage area, the recommended BMP reduces 89% of the zinc load for the critical storm, just below the percentage recommended by the RAA (92%). Overall, the recommended BMP reduces the critical storm loading for Culver City portions of the drainage area by 65%.

Table 3-3. Expected BMP performance for Alternative 2B

Water Year	Runoff Capture (ac-ft.)	Zn Load Reduction (lbs)
2002	89	75
2003	160	85
2004	124	91
2005	349	121
2006	164	80
2007	74	48
2008	187	71
2009	155	59
2010	242	99
2011	325	88
Average Annual	**187**	82
Avg. Percent Reduction	**38.4%**	**26.8%**

Table 3-4. EWMP Compliance Contribution for Alternative 2B.

Total Regional BMP Storage Volume Recommended for RAA Subwatersheds	14.1 ac-ft.
Recommended BMP Storage Volume	8.0 ac-ft.
Baseline RAA Critical Storm Runoff	35.1 ac-ft.
Recommended BMP RAA Critical Storm Capture	11.2 ac-ft.
Percent Critical Storm Runoff Reduction	31.9%
Baseline RAA Critical Storm Zn Load	17.3 lbs.
Recommended BMP Critical Storm Zn Load Reduction	8.9 lbs.
Percent Critical Storm Zn Load Reduction	51.4%

Table 3-5. Breakdown of Critical Storm Zn Load Reduction by Jurisdiction for Alternative 2B

	Harter Ave	Sepulveda Blvd^	
	Culver City	**Culver City**	**City of LA**
Avg. Portion of Zinc Loading to Alternative 2B BMP*	28%	17%	55%
RAA Recommended Percent Reduction of Zinc Load	92%	91%	21%
Baseline Zn Load for Critical Storm	2.81 lbs.	3.34 lbs.	11.16 lbs.
Zn Load Reduced by Alternative 2B BMP	2.49 lbs.	1.51 lbs.	4.90 lbs.
Percent Reduction of Zn Load for Alternative 2B BMP	89%	45%	44%
Percent Reduction of Zn Load by Jurisdiction	Culver City – 65%		City of LA – 44%

* - Zinc loading apportioned between drainage areas on basis of relative load diverted to the BMP from each diversion for Alternative 2B

^ - Distribution of zinc loads between Culver City and City of LA in Sepulveda Blvd based on percentage of drainage area in each

3.4 SUMMARY OF DECISION SUPPORT MODELING

Hydrology and water quality were analyzed to inform data-driven project design and to provide regulators and stakeholders with assurance that the Culver Boulevard project will substantially contribute towards compliance with water quality drivers outlined in the Ballona Creek EWMP. Optimization modeling, engineering judgement, and project-based input from the City suggest that the following BMP configuration and operation will enable cost-effective runoff and pollutant capture as well as meet community goals surrounding this project:

- **A 10’ high, 0.8-acre underground stormwater capture vault (8 ac-ft. volume) fed by gravity-piped inflows**
- **25 cfs diversion from Harter Ave drain (BI2901-U2 Line B)**
- **25 cfs from Sepulveda Boulevard drain (Culver City – Unit 4 Line A, I)**
- **5.76 cfs maximum discharge rate with filtration and subsequent return to the Harter Ave drain**

4.0 BMP DESIGN COMPONENTS

This section presents the engineering and design components recommended for the Culver Boulevard Stormwater Capture Project based on the preceding decision support modeling to capture both dry weather and wet weather flows from the drainage network.

4.1 DIVERSION STRUCTURES

As discussed previously, the project site is in the proximity of a confluence of multiple storm drain systems, which enables the opportunity to capture runoff volume from multiple tributary drainage areas to Ballona Creek. The project proposes to divert from Harter Ave drain, a 66-inch reinforced concrete pipe (RCP), via a diversion sump structure (Option 1). The diversion will be designed to divert runoff at a rate of 40 cfs. However, to maximize the amount of runoff volume conveyed to the Culver Boulevard Stormwater Capture Project, a second diversion structure is presented as an additional diversion (Option 2). The second diversion structure will be located at Sepulveda Channel, an 87-inch reinforced concrete arch (RCA) storm drain. Option 2 will be designed to divert runoff at 25 cfs from the Harter Ave drain and 25 cfs from the Sepulveda Blvd drain for a total diversion of 50 cfs.

A WSPG analysis was performed for the existing storm drain lines to ensure that additional infrastructure would have little to no impact on the conveyance capacity of the existing storm drains at Harter Ave or Sepulveda Blvd. Existing infrastructure geometries were input into WSPG and diversions were input within these geometries to represent proposed modifications. Asset-specific design flowrates were obtained from LA County and these flowrates (538 cfs for the Sepulveda Blvd drain and 94 cfs for the Harter Ave drain) were then modeled in WSPG to ensure that the proposed diversions would not cause affect the hydraulic conveyance capacity of the storm drains. Modeling results indicate that no issues would occur and results are shown in Appendix E.

4.2 PRETREATMENT

Stormwater runoff transports sediment, metals, nutrients, trash, and debris that can compromise the performance of stormwater facilities and pollute receiving waters. Pretreatment will be an integral component of the treatment strategies to extend the life of the system. Effective capture of sediments before they enter the storage unit will allow a long-life expectancy for the concrete unit. Pretreatment will be prescribed to reduce the maintenance frequency of the Culver Boulevard stormwater facilities, focus maintenance efforts to a concentrated area, and bolster compliance.

Options for these devices include, but are not limited to, the following: Contech CDS (Continuous Deflective Separation) hydrodynamic separator unit, the Stormceptor, the Jensen Deflective Separator (JDS), and the Bio Clean Debris Separating Baffle Box (DSBB) or Suntree Technologies Nutrient Separating Baffle Box (NSBB). Other similar units are also readily available. The final selection will be made during the detailed design phase. The goal is to remove 80% of total suspended solids (TSS) with whichever device is chosen. However, removal performance is highly dependent on the particle size distribution within the storm drain, and the diversion flow rate. As a result, actual performance of the system can only be determined through future water quality sampling.

4.2.1 Hydrodynamic Separators

A typical hydrodynamic separator collects the stormwater runoff on one or more sides of the structure where it then directs the water into a separation chamber where water begins swirling, forcing the particles out of the runoff. One hundred percent of floatables and neutrally buoyant debris larger than the screen aperture (2400 microns or 2.4 mm) is collected and settle in the isolated sump of the system, eliminating scour potential. In addition to the screen aperture filtration, at least 80% of particles that are 130 microns or larger in size are removed for flows up to 50 cfs. With the chambered system, hydrocarbons float to the top of the water surface and are prevented from being transported downstream. Systems such as the Contech CDS units are designed with a hydrocarbon baffle to contain hydrocarbons within the device. A target flow rate for each of the devices will be based on the final design of the diversion structure. Currently, a total of 25 cfs from the Harter Ave drain and 25 cfs from the Sepulveda Channel are anticipated to be diverted to two separate pretreatment devices. Each will be designed to have the capacity to treat the maximum flow diverted to each unit. The size of the unit will also be based on the estimated sediment that is anticipated to be removed to maximize sediment removal while balancing the routine maintenance required. ***Figure 4-1*** represents a typical Contech CDS type hydrodynamic separator. The Stormceptor and the JDS are other examples of hydrodynamic separators.

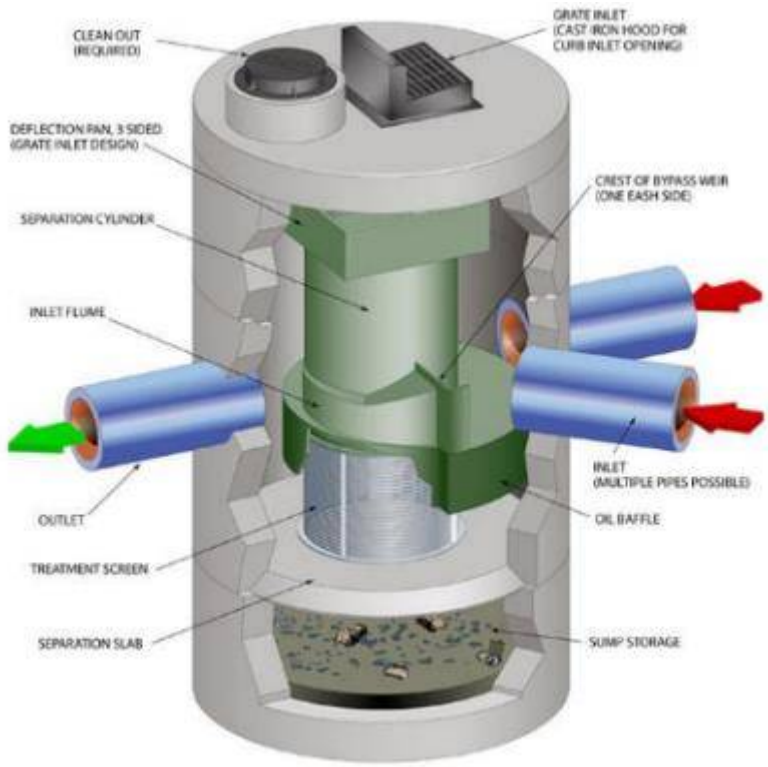


Figure 4-1. Typical Hydrodynamic Separator

(Source: Contech Engineered Solutions)

4.2.2 Debris Separating Baffle Box

As a consideration for the quality of water that can be utilized for irrigation, Debris Separating Baffle Boxes (DSBB) by Bio Clean Environmental Services and Suntree Technologies (Nutrient Separating Baffle Box (NSBB)) are also being considered as a pretreatment solution for this project. The baffle boxes are available in models varying in the level of treatment they can be provide (i.e., 125 microns vs. 250 microns). The baffle box systems use screens that

are suspended above the sedimentation chambers to capture and store trash and debris. This keeps trash and debris from sitting in standing water, thus preventing nutrient leaching and bacterial growth. TSS is removed by routing the flows through a triple chambered system. An oil skimmer with hydrocarbon booms traps and absorbs oil. ***Figure 4-2*** illustrates the typical operation of a DSBB system.

A summary comparison of the five pretreatment devices is provided in ***Table 4-1***. Due to spatial constraints and its ability to capture 100% of gross solids, a hydrodynamic separator is the preferred pretreatment device.

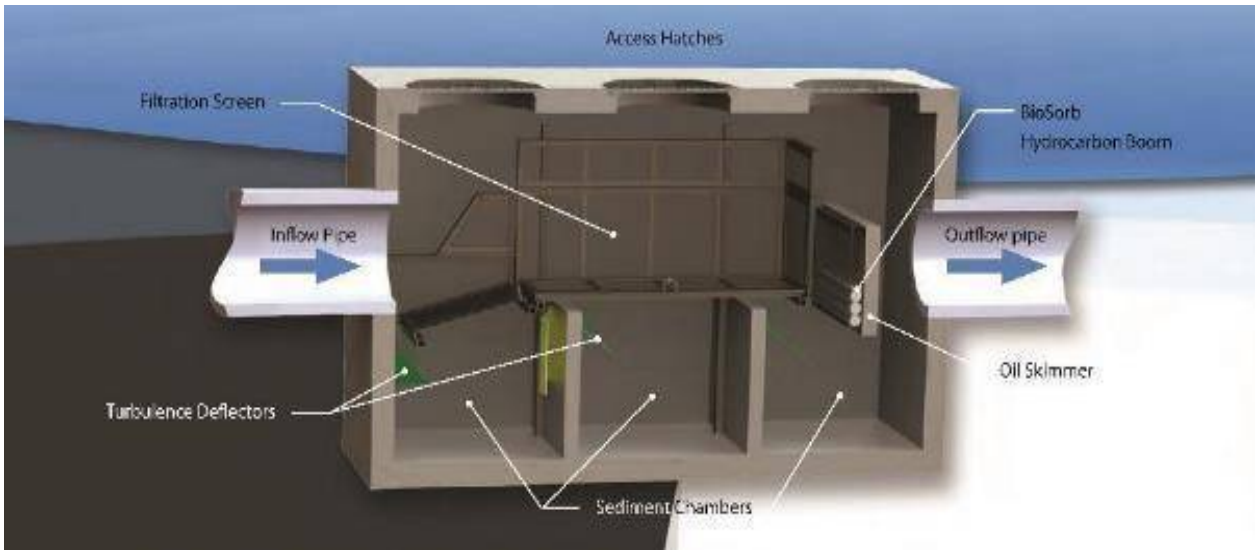


Figure 4-2. Typical DSBB System (Source: Bio Clean Environmental, Inc.)

Table 4-1. Comparison of Pretreatment Devices

	Contech CDS	Jensen Deflective Separator	Stormceptor	Bio Clean DSBB	Suntree Technologies NSBB
100% Gross Solids Removal (Full Capture Device)	Yes	Yes	No	No	No
Internal Bypass	Yes	Yes	Yes	Yes	Yes
Maximum Prefabricated Sediment Storage Sump Capacity	8.7 cy*	37.2 cy	> 70 cy	31.7 cy	> 30 cy
Effective up to 50 cfs	Yes	Yes	Yes	Yes	Yes

* Contech CDS can be constructed deeper to accommodate greater sediment storage if needed

4.3 PROPOSED STORMWATER BMP

Underground storage reservoirs act as detention and/or retention BMPs that harvest and temporarily store stormwater runoff. These BMPs are designed to harvest a specified design volume and can be configured as online or offline systems. Online BMPs require an overflow system for managing extra volume created by larger storms. Offline BMPs do not always require an overflow system but do require some freeboard (the distance from the overflow device and the point where stormwater would overflow the system) and a diversion structure. Due to the depth of groundwater, the water harvested at the Culver Boulevard Stormwater Capture Project cannot be infiltrated due to the groundwater depth.

4.3.1 Regional BMP Layout

This Preliminary Design Concept Report includes an engineered evaluation of the BMP system to determine the most appropriate layout. The two alternatives presented below all share the same components: diversion structure, pretreatment, underground storage reservoir, pump station, and a cartridge filtration system. The underground storage reservoir will primarily be placed beneath the Culver Boulevard median and pedestrian/bike path. A small portion of the storage tank will extend underneath the Culver Boulevard roadway section at the southern extent of the median where the median narrows to accommodate a right-turn pocket on the southbound side of Culver Boulevard.

4.3.1.1 Option 1

Option 1 diverts 40 cfs from the Harter Ave drain into a pretreatment device prior to discharging into the underground storage reservoir. The underground storage reservoir for Option 1 has a footprint of approximately 1.6 acres and a height of 5 feet, resulting in a storage volume of about 7 acre-feet. The footprint of the underground storage reservoir extends from Sepulveda Boulevard to Elenda Street and was developed to minimize the impact to the existing trees. Captured stormwater will be pumped out of the reservoir via a new pump station, which will convey the stored stormwater to a single, post-storage filtration device prior to discharging back into the Harter Ave drain. The filtration device will treat the stormwater at a rate of approximately 2.88 cfs.

4.3.1.2 Option 2

Option 2 diverts 25 cfs from the Harter Ave drain and 25 cfs from the Sepulveda Channel. A pretreatment device will be located downstream of each diversion prior to discharging into the underground storage reservoir. The underground storage reservoir for Option 2 has a footprint of approximately 0.88 acres and a height of 10 feet, resulting in a storage volume of 8 acre-feet. The footprint extends from Sepulveda Boulevard to Harter Avenue. Similar to Option 1, captured stormwater will be pumped out of the reservoir via a new pump station and will be conveyed to two post-storage filtration devices, treating stormwater at approximately 5.76 cfs, prior to discharging into the Harter Ave drain.

4.3.2 BMP Structure Alternatives

Underground storage tanks provide initial stormwater detention and allow for implementation where surface space is limited such as around paved streets, parking lots, and buildings. An 8-acre-foot storage reservoir is proposed for the Culver Boulevard Stormwater Capture Project. Options for underground storage reservoirs include modular designs and cast-in-place concrete structures. The following sections provide a comparison of different modular and cast-in-place designs for the underground storage reservoir.

4.3.2.1 Modular Precast Design

Precast concrete storage systems, such as the StormTrap, Oldcastle StormCapture, and Jensen StormVault systems, made from durable, reinforced, and high-strength concrete would be the most appropriate modular unit

for this project (vis-à-vis plastic modular units). They can be designed to exceed HS-20 loading, have varying depths of cover, and overcome buoyancy forces. Internal heights can vary to meet the desired storage volume. The StormTrap system can be seen in ***Figure 4-3***.

Figure 4-3. Example StormTrap System

4.3.2.2 Cast-in-Place Design

For the cast-in-place option, the roof and walls for the storage reservoir would be supported on a concrete mat foundation and designed for HS-20 and other prescribed code loadings. The construction of the storage tank, excluding the mobilization, excavation, and demobilization of the site, would take approximately 20 weeks to construct and cure. The main disadvantages of cast-in-place compared to precast is the amount of time it takes between stages for the concrete to set and cure which directly increases the cost of the system. This is especially critical for backfilling, as the wall is required to reach 70 percent compressive strength before proceeding. The advantage of the cast-in-place structure is flexibility of design and watertight characteristics that may be limited with the precast option.

4.3.2.3 Reservoir Design Overview

It is assumed that the precast option will be brought to the site in several pieces and connected together in the field. This would be in the form of precast box culverts and/or rigid frames that are essentially linked together. Depending on the final configuration, a cast-in-place foundation may be required, along with the precast structure, to resist buoyant forces that the structure will experience. Although the precast option can be constructed with an accelerated schedule, the joints at which each segment would be connected are more susceptible to leakage, and special design consideration would need to be considered by the manufacturer to ensure a watertight seal. For the precast storage tank, the construction schedule would be cut by 30% to 50%.

Table 4-2 compares the installation duration associated with cast-in-place and precast concrete storage systems with a storage volume of 8 acre-feet. Similar to installation duration, the construction costs associated with a cast-in-place system will increase significantly as compared to a precast concrete system.

Table 4-2. Comparison of Cast-in-Place and Precast Concrete Systems

	Cast-In-Place	Precast
Installation Duration[1]	12 weeks	7 weeks

[1] Installation duration does not include mobilization, excavation, shoring, and demobilization. This time frame only includes the duration to construct the storage tank, allow for curing (only applicable in the cast-in-place option) and to backfill.

4.4 DISCHARGE TREATMENT PUMP AND FILTER

The pump and filter system provides final pollutant removal prior to discharge back into the storm drain channel. The pump lifts the water from the storage tank invert back to an elevation that matches the existing storm drains while the filter unit polishes the runoff. The recommended pumping and filtration rate, as described in Section 3.3, is 5.76 cfs. There are various filtration options including cartridge filters and up-flow media filters.

4.4.1 Cartridge Filters

The most commonly used filtration system are cartridge systems. Flow enters the filter where it is then provided sufficient contact time with the filter cartridges. The cartridges contain an opening size of 10 microns and typically can treat anywhere from 0.05 gpm to 1 gpm per square foot of cartridge surface area. Multiple cartridges are installed in a large concrete vault that can treat up to 3 cfs. Pollutants build up on the cartridge preventing migration back to the channel. The cartridges can be cleaned and re-used providing an easy maintenance process. The Contech StomFilter and BioClean Kraken are examples of cartridge filters used for stormwater treatment.

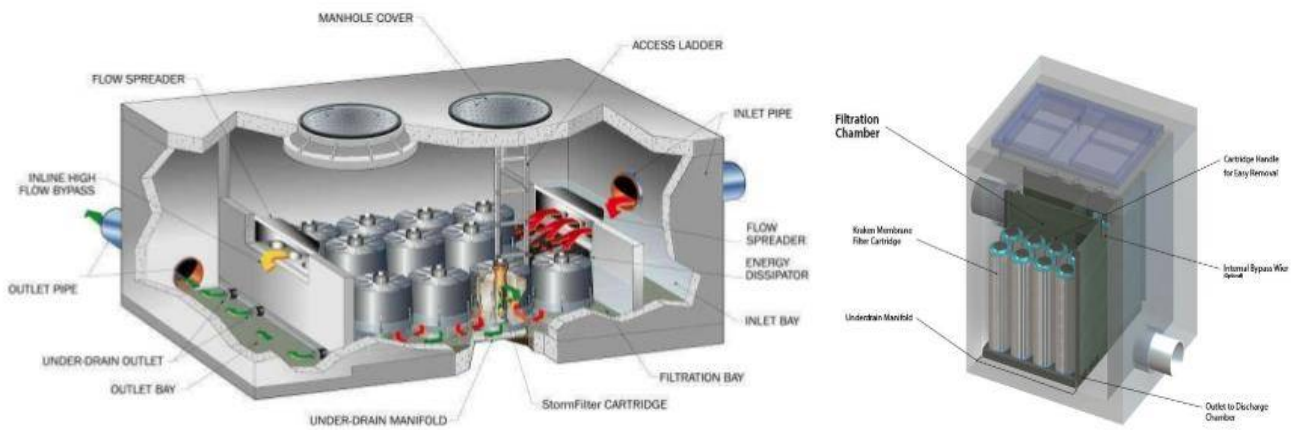


Figure 4-4 - Example cartridge filter systems

4.4.2 Up-flow Media Filters

Up-flow media filters are designed to force water to flow up through a media bed trapping pollutant on the underside allowing them to fall to the bottom of the unit for removal. Flow enters the unit and builds pressure through a series of chambers that then pass through the media. Once the flow subsides, the water level will lower causing the pressure to drop reversing flow through the filter and removing the pollutant. This allows for passive back wash that will prolong the life of the filter through the prevention of clogging. The BioClean Water Polisher is an example of an up-flow media filter.

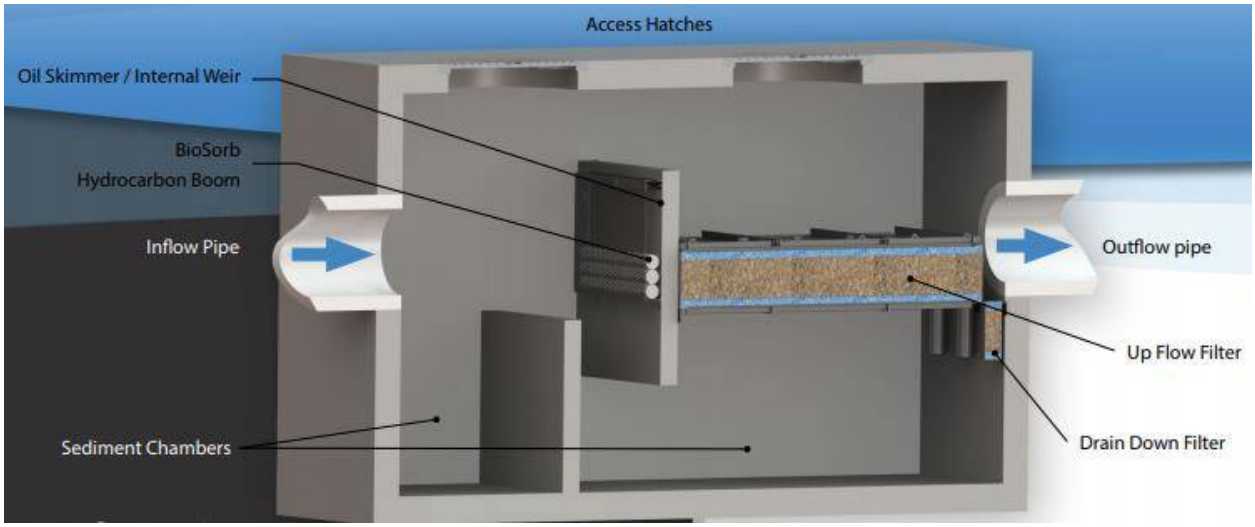


Figure 4-5 - Example up-flow media filter system

4.5 OPTIONAL ONSITE USE ALTERNATIVE

Although the primary purpose of this project is water quality improvement, the capture of dry and wet weather runoff presents an opportunity to offset potable water demand. Stored stormwater can be used for onsite or nearby subsurface irrigation, which would reduce the demand for potable water. Should the option for subsurface irrigation be implemented, an analysis will be necessary to estimate the potential extent of potable water offset from capturing and treating runoff in the proposed BMP. Additionally, the water demand for the landscaping for the roadway widening project will be coordinated to develop and appropriate water balance.

4.6 REAL-TIME CONTROLS CONSIDERATIONS

The preceding analyses have demonstrated that optimizing the size and diversion rate of passively controlled BMPs enables cost-effective decision making. An additional component that can optimize performance of BMPs (for marginal extra cost) are real-time controls (RTC). RTC operate by relaying real-time monitoring data, such as water level and flow or internal capacities of different portions of the BMP, from on-site sensors to cloud-based software (Fig. 4-6). Based on the predicted rainfall forecast downloaded from National Weather Service climate models, the software automatically regulates on-site control hardware (such as valves, gates, or pumps) based on configurable and adaptable logic. Rapid, predictive, and responsive control provides “hard” infrastructure with flexibility and resiliency that could not otherwise be achieved through traditional hydraulic structures, such as orifices, weirs, and manually operated gates.

RTC has been demonstrated nationwide to maximize water quality improvement and runoff capture (relative to passive systems) by actively and predictively managing the routing and storage of stormwater. Because RTC relies on real-time monitoring instruments, it provides a mechanism for rapidly analyzing the operation of BMPs with respect to WMP RAA compliance goals and adaptively modifying the control logic in response to observed performance. The long-term monitoring datasets also allow maintenance to be proactively prescribed when BMP functions underachieve target criteria. While a full-analysis of the potential benefits of RTC are beyond the scope of this report, their use is encouraged to fully maximize the utility of the BMP and provide reflexive data that can help shape more effective operation in the future.

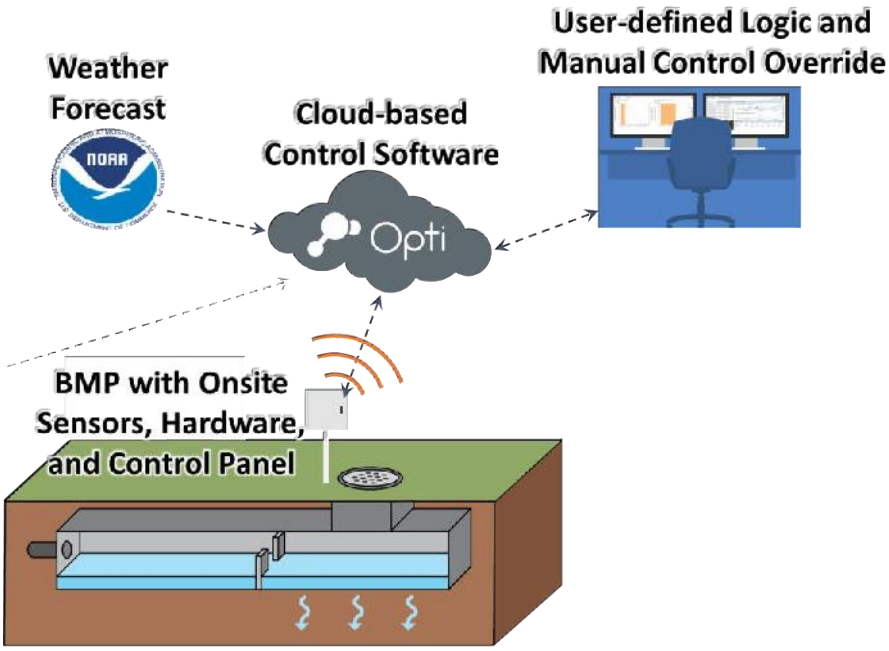


Figure 4-6. Conceptual Schematic of RTC Framework

5.0 PERMITTING, COST ESTIMATE, AND SCHEDULE

Potential permits associated with this project are described below to help better understand the scope of work required for the final design of this project. The cost estimate and project schedule have been created to validate that the preliminary design may be built within the specified budget and within the time allocated to use the funds.

5.1 ENVIRONMENTAL DOCUMENTS AND PERMITS

Consultation with regulatory agencies and acquisition of permits is required before the project components can be constructed. The following sections summarize regulatory permits and approvals relevant to the project.

5.1.1 Los Angeles County Flood Control District

The LACFCD provides flood protection and water conservation within the County of Los Angeles. In order for the LACFCD to fulfill such duties, the LACFCD owns and maintains many debris basins, open channels, and underground storm drain systems throughout the County. Any construction within the LACFCD right-of-way requires a Flood Control Permit. A Flood Control Permit is required to ensure that the constructed project (in particular, the diversion structure) does not interfere with the LACFCD's operations and maintenance responsibilities. Future analysis of project-related hydraulics for drainage assets will be conducted in the Water Surface Profile Gradient (WSPG) model in support of the acquisition of a Flood Control Permit.

5.1.2 South Coast Air Quality Management District

Construction activities in the South Coast Air Basin are subject to South Coast Air Quality Management District's (SCAQMD) Rule 403. Rule 403 sets requirements to regulate operations, which periodically may cause fugitive dust emissions into the atmosphere by requiring actions to prevent, reduce, or mitigate fugitive dust emissions. All construction in the South Coast Air Basin must incorporate best available control measures included in Table 1 of Rule 403. Additionally, large operations (defined as active operations on 50 acres or more), or projects with daily earth-moving or throughput volume of 5,036 cubic yards or more, three times during the most recent 365-day period, are further required to submit a large operation notification, identify a certified dust control supervisor, implement measures from Tables 2 and 3 of Rule 403, and maintain daily records.

5.1.3 State Water Resources Control Board

Amendments to the federal Clean Water Act (CWA) require construction activities consisting of one acre or more to develop and implement Storm Water Pollution Prevention Plans (SWPPPs). In California, construction activities are regulated under the NPDES General Permit for stormwater discharges associated with construction activity adopted by the State Water Resources Control Board. The goal of the NPDES permit is to stop polluted discharges from entering the storm drain system and local coastal waters during construction activities.

The construction NPDES General Permit requires all permitted dischargers to:

- Develop and implement a SWPPP that specifies BMPs that will prevent construction pollutants from contacting stormwater with the intent of keeping products of erosion from moving off-site into receiving waters
- Eliminate or reduce non-stormwater discharges to storm sewer systems and other waters of the nation
- Perform inspections of all BMPs

Prior to the start of project construction, the City will submit a Notice of Intent (NOI) to obtain coverage under the General Permit and provide the permit fee and a site map. A SWPPP will be required for this project and the Construction Contractor will implement the SWPPP. The SWPPP must address the use of appropriately selected, correctly installed, and adequately maintained pollution reduction BMPs.

5.1.4 Local Construction Permits

Depending on the selected concept, the Culver City may require building and grading permits. Minor traffic control may be necessary during the trenching activities for the storm drains and discharge lines as well as for the hauling of export from the project during the excavation phase.

5.1.5 Other Environmental Planning and Permits

During the demolition and excavation phase an arborist as well as a Native American Monitoring specialist are anticipated to be onsite during working hours. The arborist will ensure that the onsite trees and their root systems are being protected. Native American and Archeological monitoring will ensure that construction is temporarily stopped if any historic artifacts are uncovered.

5.2 PRELIMINARY COST ANALYSIS

The cost analysis is utilized as a tool to ensure preliminary design is within the amount of funds available to the project. If the cost analysis indicates that the project is not feasible, then the design will need to be adjusted to bring it within the project budget while still meeting the project goals. The cost analysis was developed using various sources of information, as well as the Cost Estimator's judgment.

5.2.1 Construction Cost

The construction cost entails the various components of the project that a Contractor would construct for the City. Construction costs do not include items of work not directly performed by the Contractor, such as the City's construction management during construction. The construction costs were developed using various sources of cost information. The estimated construction cost is $12,864,007 for the recommended optimal BMP configuration. ***Table 5-1*** lists the respective breakdowns of the items required to complete the project based on Alternative 2B from modeling optimization.

Table 5-1. Estimated Construction Costs, Optimal BMP Configuration

Culver Boulevard BMP	
Mobilization/Demobilization (3.5%)	$ 379,591
Active Controls	$ 71,000
Site Preparation and Demolition	$ 576,038
Storm Drain Diversion and Pretreatment	$ 613,500
Storage	$ 8,124,937
Post-Storage Conveyance to Drain	$ 308,380
Water Treatment System	$ 308,360
Electrical Service, Controls, Instrumentation	$ 278,200
Traffic Control	$ 35,000
Start-up, Testing, O&M Manuals, and Record Drawings	$60,000
Subtotal	$10,720,006
Estimating Contingency (20%)	$ 2,144,001
Total	**$ 12,864,007**

5.2.2 Operations & Maintenance Costs

The operations and maintenance costs were developed on the basis that a service contractor would maintain the various components of the system. Operation of the system during wet weather and dry weather events assumed to be managed by the City. Estimated annual operations and maintenance costs are presented in ***Table 5-2***.

Table 5-2. Annual Estimated Operations & Maintenance Costs

Description	Frequency	No. of Times per Year	Unit Price	Total
Active Controls				**$ 10,000**
Continuous Monitoring and Adaptive Control	Continuous	-	$ 10,000	$ 10,000
Diversion and Pretreatment				**$ 27,000**
Diversion Structure – Inspection and Cleaning	Monthly	12	$ 750	$ 9,000
Pretreatment Device – Vacuum	Monthly	3	$ 5000	$ 20,000
Storage				**$ 16,000**
Dry Season Inspection and Cleaning	Quarterly	2	$ 4,000	$ 8,000
Wet Season Inspection and Cleaning	Quarterly	2	$ 4,000	$ 8,000
Pump Station				**$ 37,775**
Dry Season Inspection and Cleaning	Every Other Month	3	$ 750	$ 2,250
Wet Season Inspection and Cleaning	As Needed	6	$ 750	$ 4,500
Electrical Usage	Monthly	12	$ 300	$ 3,600
Valve Maintenance	As Needed	1	$ 1,000	$ 1,000
Control Panel Maintenance	As Needed	1	$ 1,000	$ 1,000
Pump Replacement	Every 20 Years	1	$ 25,425	$ 25,425
Water Treatment System				**$ 6,000**
Filter Inspection and Cleaning	Annually	1	$ 6,000	$ 6,000
Total				**$ 96,775**

5.2.3 Project Costs

Project costs include all the necessary items to provide a finished product. Cost includes predesign, design, construction, construction management, and post construction work. The estimated project capital budget for the recommended configuration is $14.2 million, as shown in ***Table 5-3***. The estimated 10-year operations and maintenance cost is $713,500, as shown in ***Table 5-4***.

Table 5-3. Estimated Project Capital Cost and Long-Term Operations and Maintenance Costs

Cost Component	Optimal BMP
Construction	$ 12,864,007
Construction Management and Inspections (10% of construction)	$ 1,286,401
Capital Cost Subtotal	**$ 14,150,408**
Total Project Capital Cost	**$ 14,150,408**

Table 5-4. Long-Term Operation and Maintenance Costs

Cost Component	Optimal BMP
10 Year Operations and Maintenance Cost	**$ 713,500**

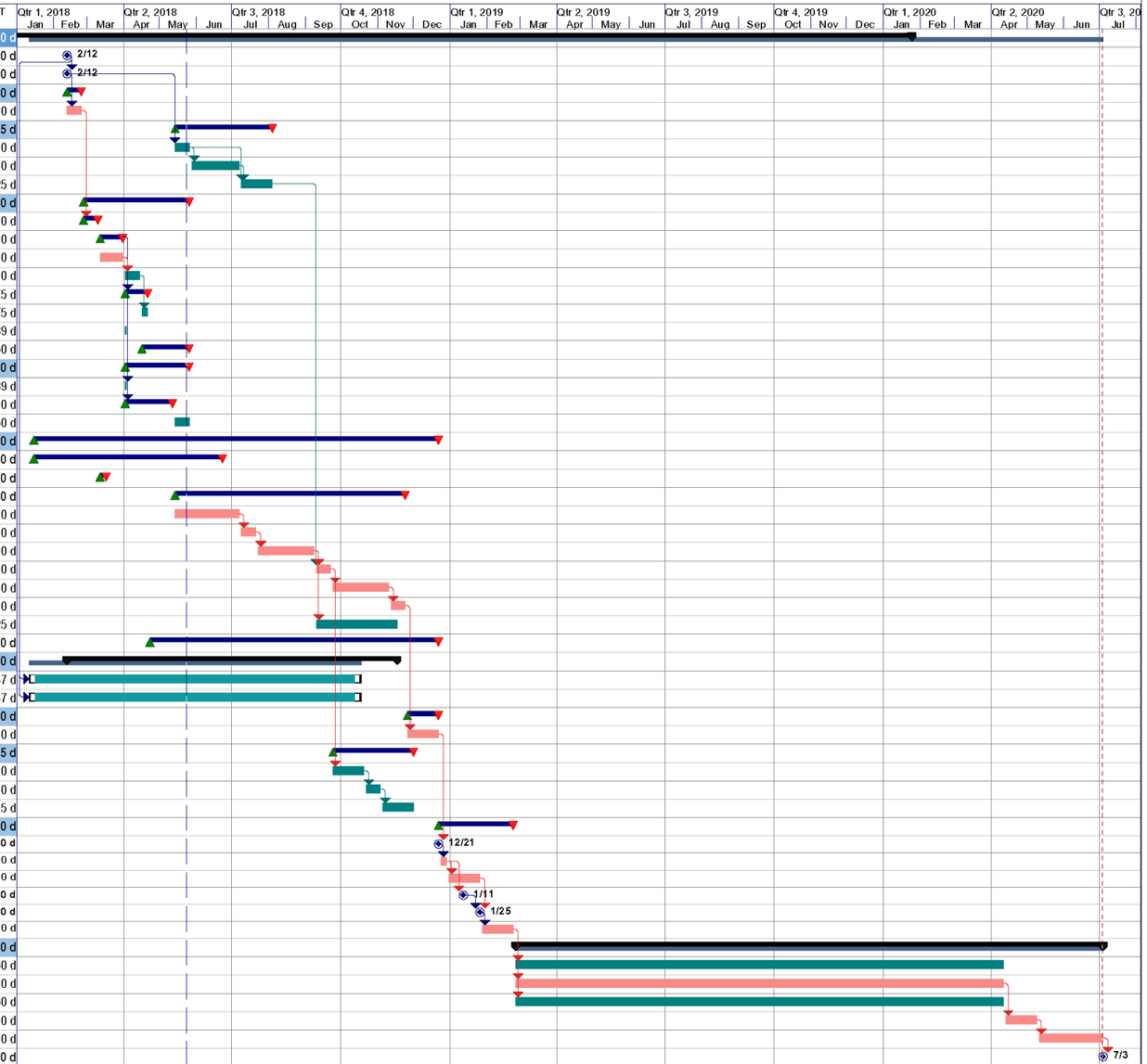
* ***10-Year Operations and Maintenance Cost does not include Pump Replacement*** **value** ***due to estimated 20-year useful life replacement frequency.***

5.3 IMPLEMENTATION SCHEDULE

The preliminary project implementation schedule is provided in ***Figure 5-1***. The schedule includes finalizing the design plans, environmental planning and permitting, community outreach, bid and award, and construction.

PROJECT SCHEDULE FOR
CULVER BOULEVARD STORMWATER INFILTRATION & RETENTION PROJECT

ID	TASK NAME	DUR	START	FINISH	%	FLOAT
1	Culver Boulevard Stormwater Infiltration & Retention Project	595 d	Mon 10/16/17	Fri 1/24/20	0%	0 d
2	City of Culver City Issues NTP	0 d	Mon 2/12/18	Mon 2/12/18	0%	0 d
3	Project Kick-Off Meeting	0 d	Mon 2/12/18	Mon 2/12/18	0%	0 d
4	Task 1. Review Geotechnical Investigation Report & Percolation Test Results	10 d	Mon 2/12/18	Fri 2/23/18	0%	0 d
5	1.1 Geotechnical Investigation Report Review	10 d	Mon 2/12/18	Fri 2/23/18	0%	0 d
6	Task 2. Environmental Study	60 d	Mon 5/14/18	Fri 8/3/18	0%	25 d
7	2.1 Program Environmental Impact Report Review	10 d	Mon 5/14/18	Fri 5/25/18	0%	0 d
8	2.2 Initial Study Draft Review & Finalize	30 d	Mon 5/28/18	Fri 7/6/18	0%	0 d
9	2.3 Additional Environmental Studies	20 d	Mon 7/9/18	Fri 8/3/18	0%	25 d
10	Task 3. Hydrology & Hydraulic Study	65 d	Mon 2/26/18	Fri 5/25/18	0%	0 d
11	3.1 Watershed Characterization	10 d	Mon 2/26/18	Fri 3/9/18	0%	0 d
14	3.2 Stormwater BMP Diversion & Sizing Analysis	15 d	Mon 3/12/18	Fri 3/30/18	0%	0 d
15	Stormwater Treatement Exhibit (Plan & Cross Sections)	15 d	Mon 3/12/18	Fri 3/30/18	0%	0 d
16	3.3 Hydraulic Analysis	10 d	Mon 4/2/18	Fri 4/13/18	0%	0 d
17	3.4 Permitting Research	15 d	Mon 4/2/18	Fri 4/20/18	0%	575 d
18	Outline of Permitting with County of Los Angeles	5 d	Mon 4/16/18	Fri 4/20/18	0%	575 d
19	Adherence to Prop 84 Requirements	1 d	Mon 4/2/18	Mon 4/2/18	0%	589 d
20	3.5 Hydrology & Hydraulic Report	30 d	Mon 4/16/18	Fri 5/25/18	0%	550 d
24	Task 4. Conceptual Plan	40 d	Mon 4/2/18	Fri 5/25/18	0%	0 d
25	Review & Coordinate with Culver Blvd Improvement Project	1 d	Mon 4/2/18	Mon 4/2/18	0%	589 d
26	4.1 Preliminary Site Layout	30 d	Mon 4/2/18	Fri 5/11/18	0%	0 d
30	Public Outreach Exhibits	10 d	Mon 5/14/18	Fri 5/25/18	0%	550 d
31	Task 5. Design Phase - Preliminary	245 d	Mon 1/15/18	Fri 12/21/18	0%	0 d
32	Design Phase Meetings	115 d	Mon 1/15/18	Fri 6/22/18	0%	0 d
37	Review & Supplment Existing Documents	5 d	Mon 3/12/18	Fri 3/16/18	0%	600 d
40	Prepare Plans, Specifications and Estimate (PS&Es)	140 d	Mon 5/14/18	Fri 11/23/18	0%	0 d
41	50% PS&Es	40 d	Mon 5/14/18	Fri 7/6/18	0%	0 d
42	City Review (50%)	10 d	Mon 7/9/18	Fri 7/20/18	0%	0 d
43	75% PS&Es	35 d	Mon 7/23/18	Fri 9/7/18	0%	0 d
44	City Review (75%)	10 d	Mon 9/10/18	Fri 9/21/18	0%	0 d
45	90% PS&Es	35 d	Mon 9/24/18	Fri 11/9/18	0%	0 d
46	City Review (90%)	10 d	Mon 11/12/18	Fri 11/23/18	0%	0 d
47	Cost-Benefit Analysis	50 d	Mon 9/10/18	Fri 11/16/18	0%	425 d
48	LACFCD Permitting Support	175 d	Mon 4/23/18	Fri 12/21/18	0%	400 d
54	Task 6. Community Outreach	200 d	Mon 2/12/18	Fri 11/16/18	0%	0 d
55	Attend Community Outreach Meetings (2 Total)	200 d	Thu 1/11/18	Wed 10/17/18	0%	447 d
56	Prepare Supporting Material	200 d	Thu 1/11/18	Wed 10/17/18	0%	447 d
57	Task 7. Design Phase - Final	20 d	Mon 11/26/18	Fri 12/21/18	0%	0 d
58	100% PS&Es	20 d	Mon 11/26/18	Fri 12/21/18	0%	0 d
59	Task 8. Operation & Maintenance Manual	50 d	Mon 9/24/18	Fri 11/30/18	0%	415 d
60	Draft O&M Manual	20 d	Mon 9/24/18	Fri 10/19/18	0%	0 d
61	City Review (O&M Manual)	10 d	Mon 10/22/18	Fri 11/2/18	0%	0 d
62	Final O&M Manual	20 d	Mon 11/5/18	Fri 11/30/18	0%	415 d
63	Task 9. Bid Phase - Support Services	45 d	Fri 12/21/18	Fri 2/22/19	0%	0 d
64	City Approval to Adopt Plans and Advertise	0 d	Fri 12/21/18	Fri 12/21/18	0%	0 d
65	Advertise for Construction Bids	5 d	Mon 12/24/18	Fri 12/28/18	0%	0 d
66	Advertisement Period	20 d	Mon 12/31/18	Fri 1/25/19	0%	0 d
67	Pre-Bid Conference	0 d	Fri 1/11/19	Fri 1/11/19	0%	10 d
68	Receive Bids from Prospective Contractors	0 d	Fri 1/25/19	Fri 1/25/19	0%	0 d
69	Award Construction Contract	20 d	Mon 1/28/19	Fri 2/22/19	0%	0 d
70	Task 10. Construction Phase - Support Services	355 d	Mon 2/25/19	Fri 7/3/20	0%	0 d
71	Submittal & Shop Drawing Review	295 d	Mon 2/25/19	Fri 4/10/20	0%	60 d
72	Assist with Request for Information (RFI) Requests	295 d	Mon 2/25/19	Fri 4/10/20	0%	0 d
73	Meetings (Pre-Con, 2 Progress Meetings)	295 d	Mon 2/25/19	Fri 4/10/20	0%	60 d
74	Final Inspection and Walkthrough	20 d	Mon 4/13/20	Fri 5/8/20	0%	0 d
75	Prepare As-Built Drawings	40 d	Mon 5/11/20	Fri 7/3/20	0%	0 d
76	PROJECT COMPLETE	0 d	Fri 7/3/20	Fri 7/3/20	0%	0 d



Project: CULVER BOULEVARD SW PROJECT
Date: Thu 5/24/18

TETRA TECH

Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Critical	
Split		External Tasks		Inactive Summary		Manual Summary		Critical Split	
Milestone		External Milestone		Manual Task		Start-only		Progress	
Summary		Inactive Task		Duration-only		Finish-only		Deadline	

SCHEDULE for Culver Boulevard SW Project_Update 2018 02 22.mpp Page 1

Figure 5-1. Project Implementation Schedule

6.0 CONCLUSIONS AND RECOMMENDATIONS

The preliminary engineering design report was prepared for the Culver Boulevard Median to advance progress towards complying with the MS4 permit requirements. The existing utilities, geotechnical conditions, hydrology, and water quality were first characterized, then an optimized analysis informed data-driven selection of cost-effective solutions. Modeling suggest that an 8.0 ac-ft. BMP could provide optimal long-term pollutant removal. The following summarizes the recommended configuration:

- **A 10' high, 0.8-acre underground stormwater capture vault (8 ac-ft. volume) fed by gravity-piped inflows**
- **25 cfs diversion from Harter Ave drain (BI2901-U2 Line B)**
- **25 cfs from Sepulveda Boulevard drain (Culver City – Unit 4 Line A, I)**
- **5.76 cfs maximum discharge rate with filtration and subsequent return to the Harter Ave drain**

The predictive BMP performance demonstrates that long-term pollutant reduction targets can be achieved based on several key compliance metrics, including average -annual reduction (from which the BMP's size and operating parameters could be optimized). The modeled BMP has capacity to provide a significant amount of water quality benefit for the Ballona Creek Watershed. Based on the RAA recommendations and critical storm loading in the project drainage area, Culver City is required to reduce baseline zinc loads by 5.62 lbs. (91.5 %) to meet the goals of the RAA for water quality compliance, the recommended BMP is able to reduce critical storm zinc loading by 4.00 lbs. for Culver City (65%). These performance estimates will contribute significantly to pollutant reduction initiatives in the Watershed Management Area WMP and this project will enable Culver City to address pollutants in this watershed effectively. The estimated construction cost is $12,864,007 for the recommended optimal BMP configuration with an overall estimated project capital budget of $14.2 million (including construction management and inspections) and an estimated 10-year operations and maintenance cost of $713,500.

APPENDIX A: DETAILED DRAWINGS AND SITE LAYOUT

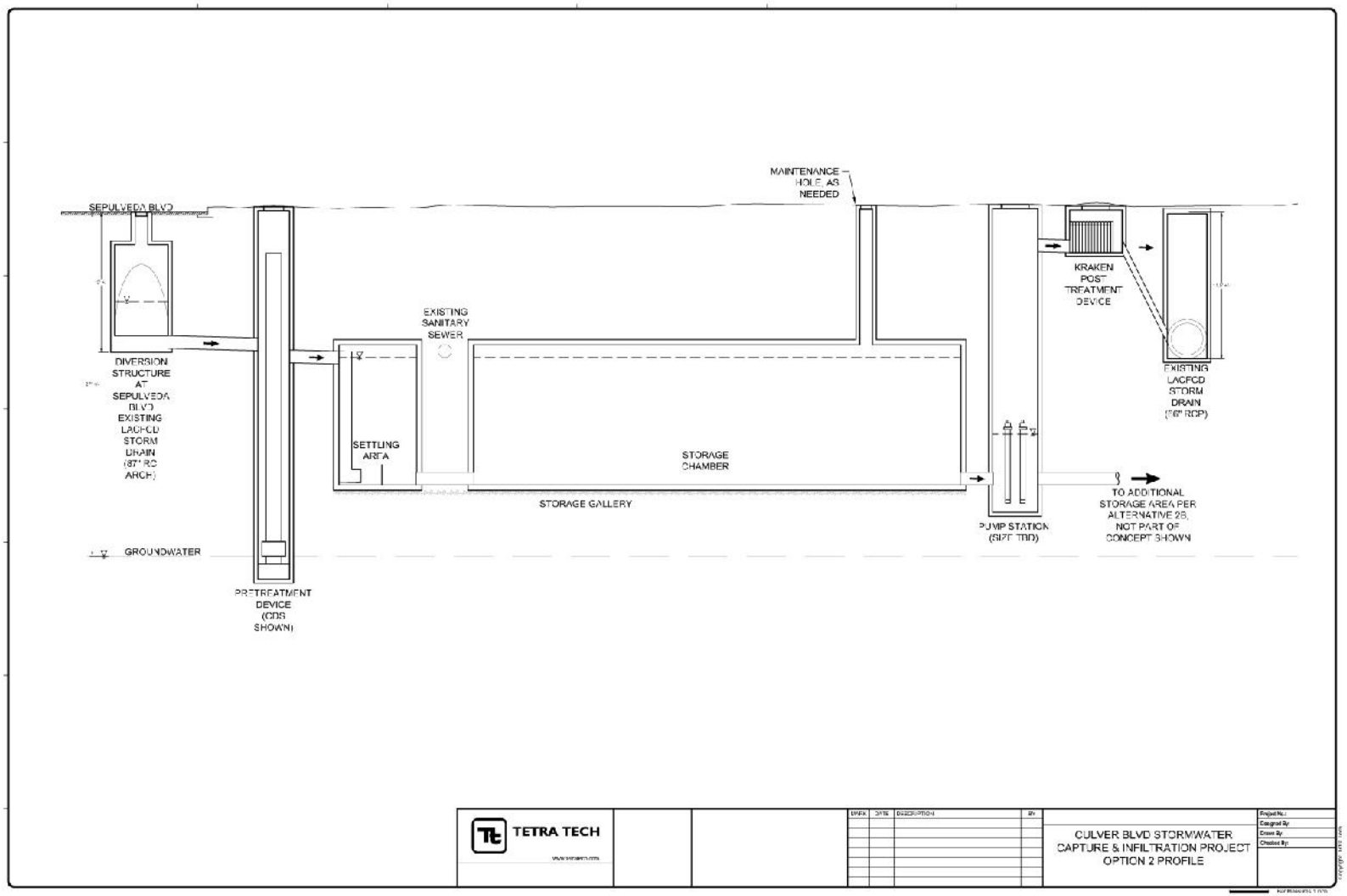


Figure 6-1. Schematic profile view of recommended BMP at Culver Boulevard

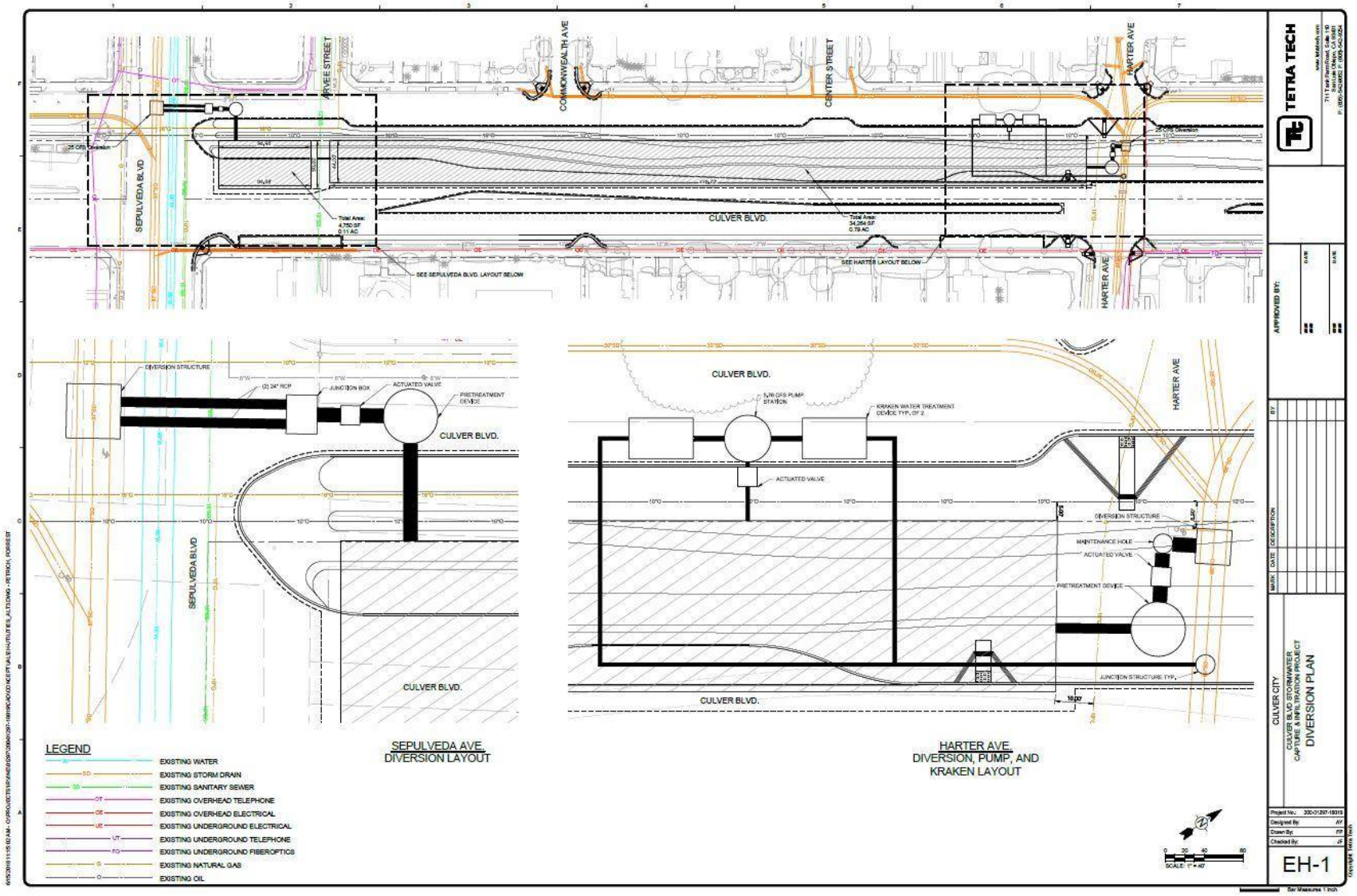


Figure 6-2. Plan view with diversion configuration and utilities

APPENDIX B: EXISTING UTILITY PLANS

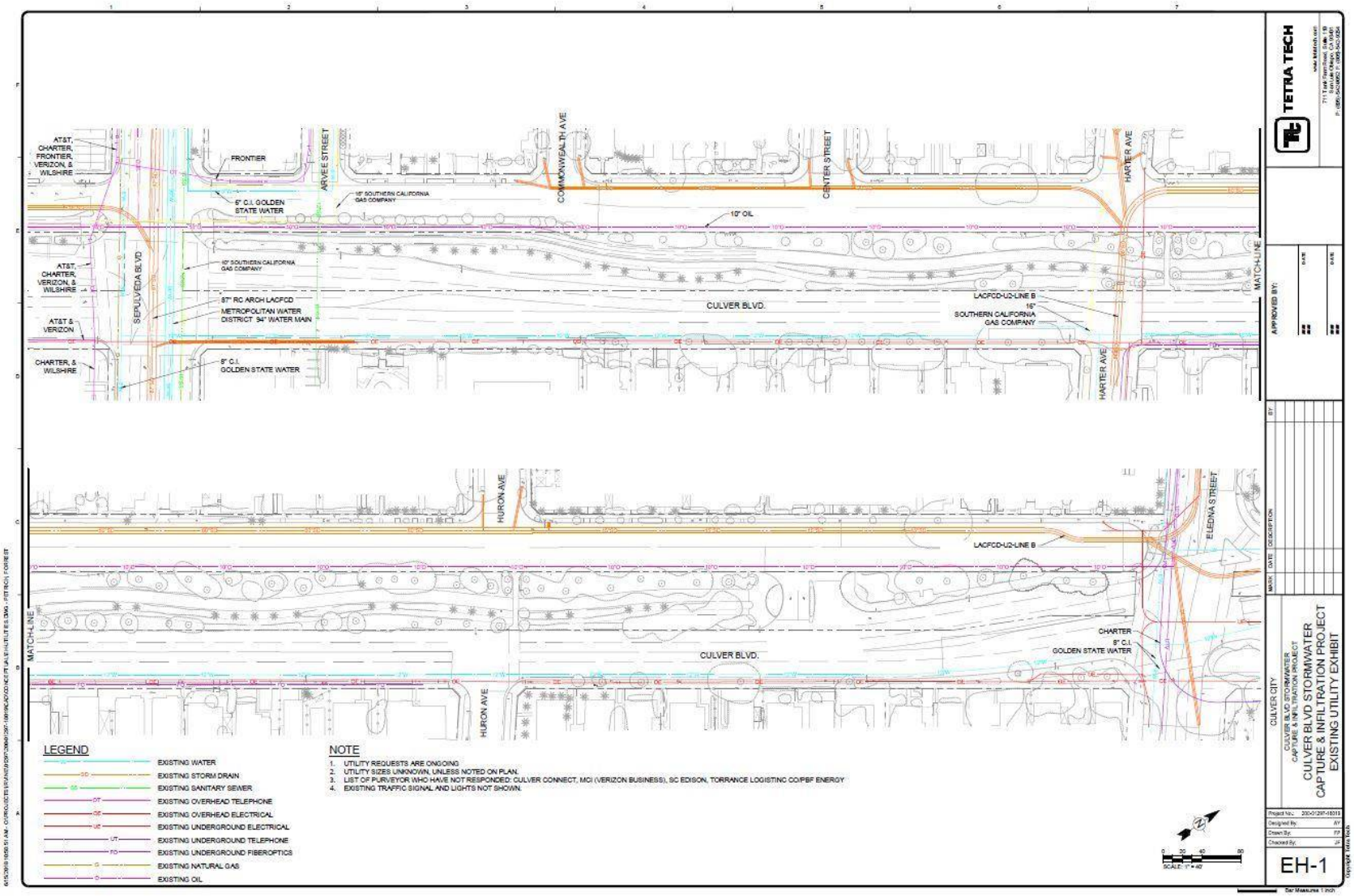


Figure 6-3. Map of existing utilities from survey

APPENDIX C: DIVERSION LAYOUT PLANS

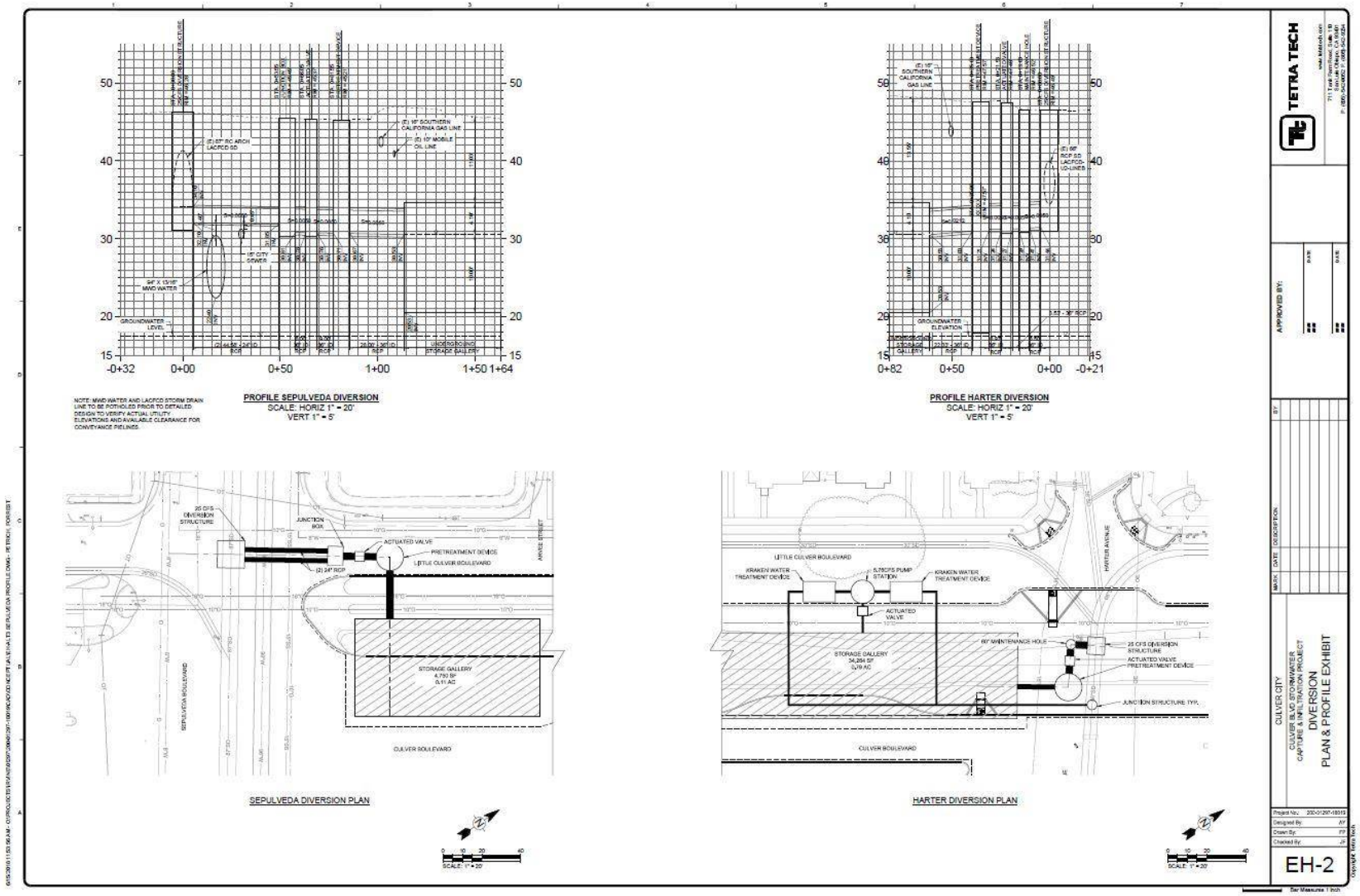


Figure 6-4. Plan details of proposed diversion configuration

APPENDIX D: FILTRATION UNIT DETAIL DRAWING

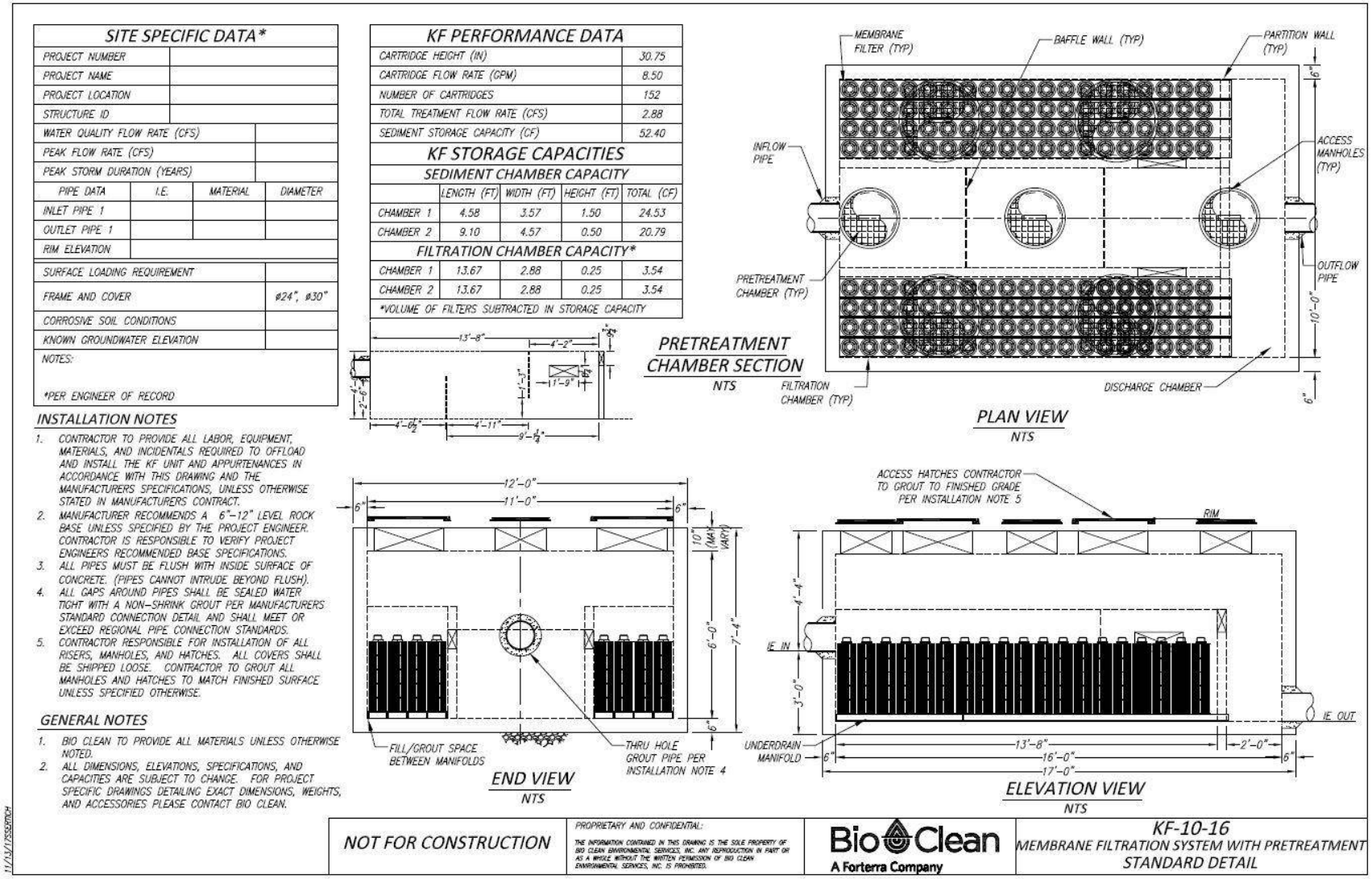


Figure 6-5. Detail drawing of recommended filtration unit

APPENDIX E: WSPG DIVERSION STRUCTURE ANALYSIS

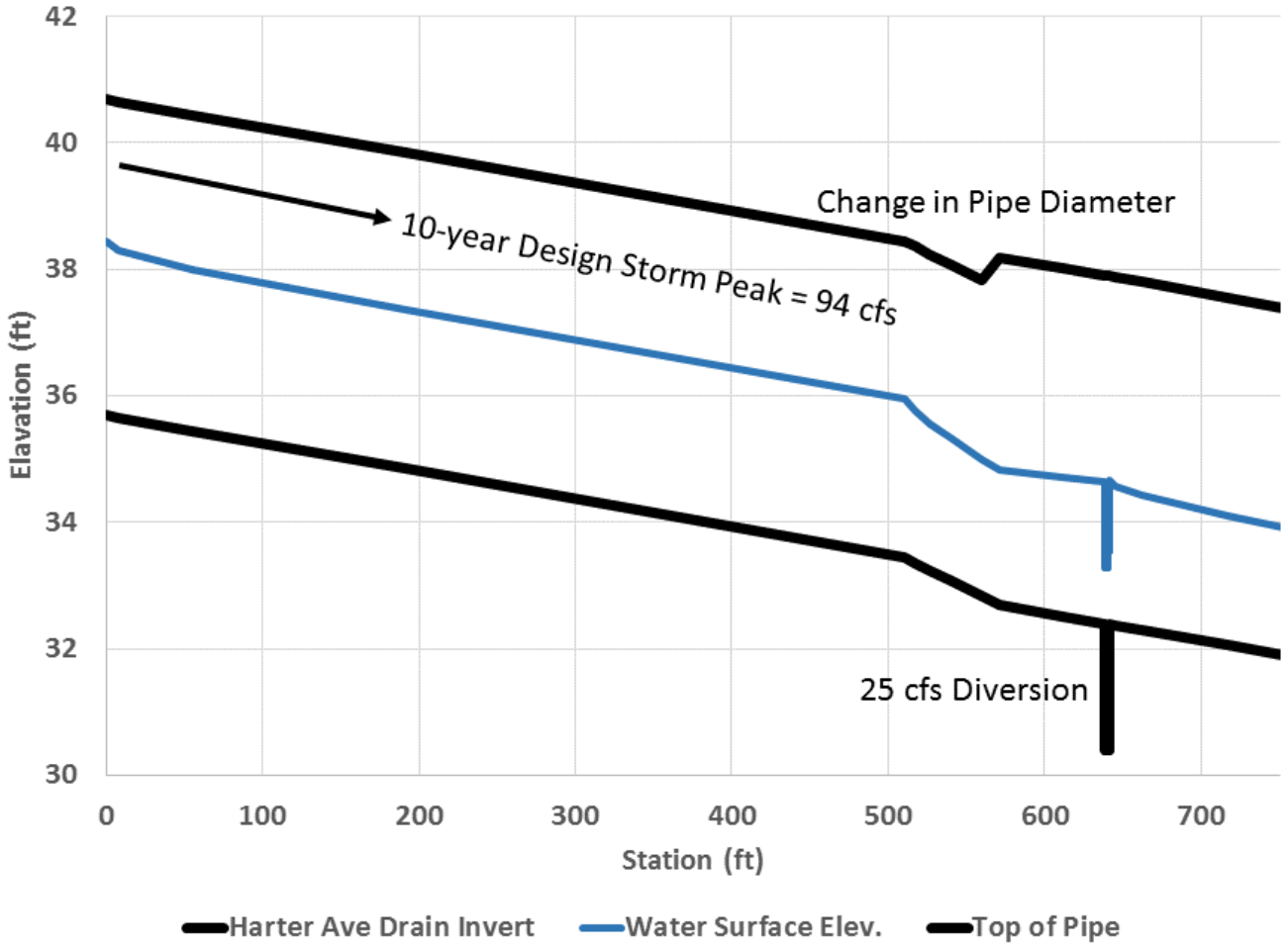


Figure 6-6. WSPG results for Harter Ave drain

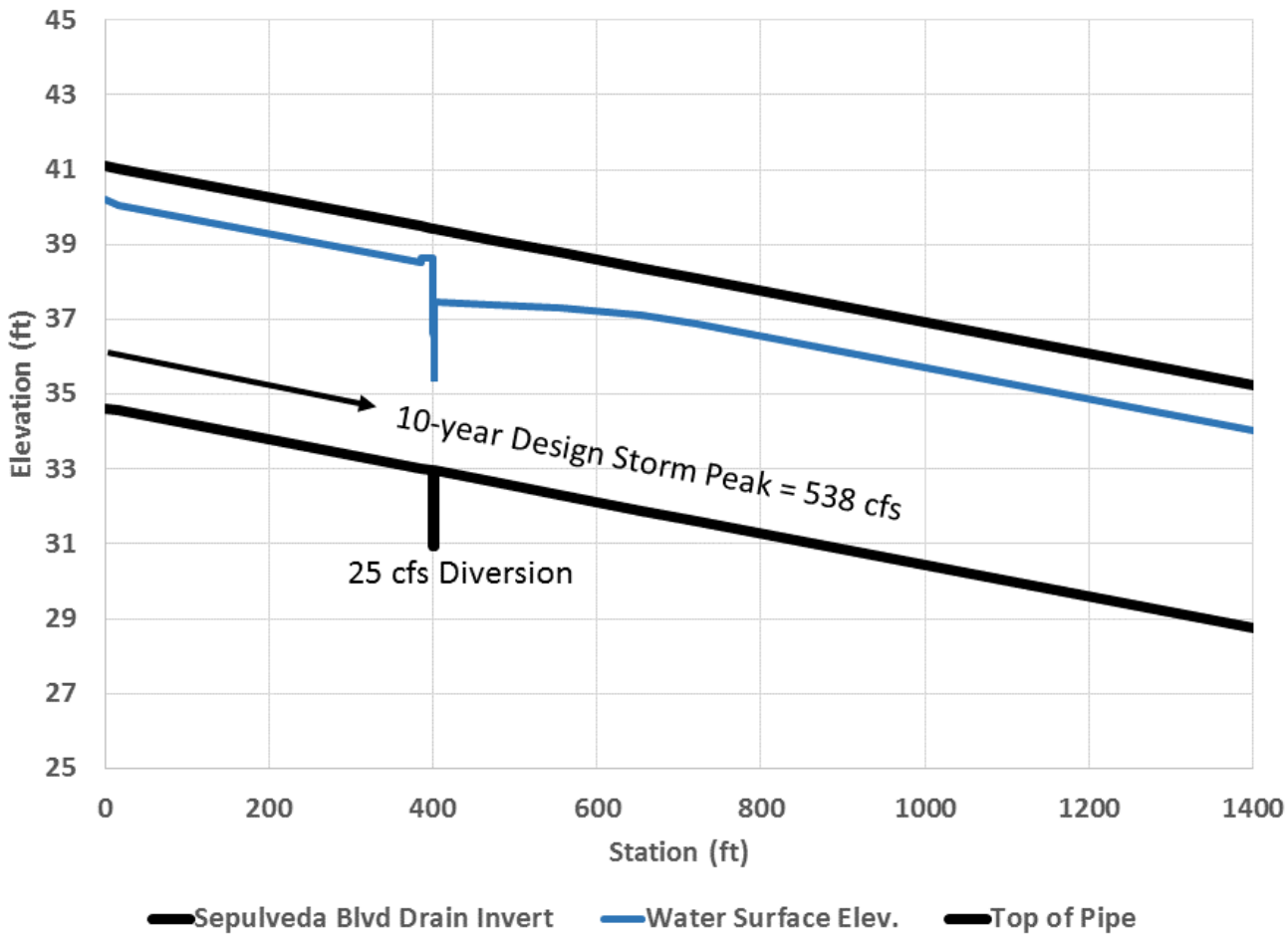


Figure 6-7. WSPG results for Sepulveda Blvd drain

APPENDIX F: GEOTECHNICAL INVESTIGATION REPORT ADDENDUM NO. 1

TETRA TECH

Project No. TET 18-147E
March 21, 2017

Mr. Oliver Galang
Tetra Tech
3475 E. Foothill Blvd
Pasadena, CA 91107

Subject: **GEOTECHNICAL REPORT ADDENDUM No. 1**
Culver Boulevard – Between Sepulveda Boulevard and Elenda Street
Culver City, California

Reference: "Preliminary Geotechnical Engineering Investigation, Proposed Underground Stormwater Storage and Infiltration System." Culver Boulevard between Sepulveda Boulevard and Elenda Street, Culver City, California, by Geotechnologies Inc. dated **August 12, 2015.**

Tetra Tech has reviewed the above referenced report for the preliminary design of the proposed subsurface storage and infiltration galleries to be located along Culver Boulevard between Sepulveda Boulevard and Elenda Street, in Culver City, California. This addendum expands and updates some sections of the referenced report and provides additional recommendations for the design of the facilities. Tetra Tech assumes the responsibility as the Geotechnical Engineer of Record for the subject project. Tetra Tech reserves the right to provide alternate recommendations, as deemed appropriate, based on the site conditions encountered during construction.

We appreciate the opportunity to provide our professional services on this project. If you have any questions regarding this report or if we can be of further service, please do not hesitate to contact the undersigned.

Respectfully submitted,
Tetra Tech

Fernando Cuenca, Ph.D., P.E.
Project Engineer

Peter Skopek, Ph.D., G.E
Principal Engineer

Distribution: Addressee (pdf by email Oliver.Galang@tetratech.com)
Jason Fussel (pdf by email Jason.Fussel@tetratech.com)

Filename: Culver Boulevard Addendum No1 2018-03-21.docx

1360 Valley Vista Drive * Diamond Bar, CA 91765 * Tel: 909-860-7777 * Fax: 909-860-8017

INTRODUCTION

This addendum provides updated and additional recommendations for the design of the proposed subsurface storage and infiltration galleries to be located along Culver Boulevard between Sepulveda Boulevard and Elenda Street, in Culver City, California. This addendum includes recommendations for the following:

- Revised design parameters for temporary sloped excavations;
- Revised design parameters for a temporary shoring system;
- Recommendations for lateral earth pressures on underground structures;
- Recommendations for site preparation;
- Recommendations for foundations and allowable bearing pressures;
- Recommendations for uplift design;
- Recommendations for pipeline trenches design and construction; and,
- Revised infiltration rates applicable to the design of the proposed underground infiltration galleries.

This addendum is to be used in conjunction with the original report "Preliminary Geotechnical Engineering Investigation, Proposed Underground Stormwater Storage and Infiltration System." Culver Boulevard between Sepulveda Boulevard and Elenda Street, Culver City, California, by Geotechnologies Inc. dated **August 12, 2015.** Whenever there is conflict with the original report this addendum supersedes the original information, otherwise the information contained in the original report remains effective. It is understood that a separate project will address the redesign of the streets and the pavements.

REVISE Section GROUNDWATER page 4

ADD:

Well data from the Los Angeles County Department of Public Works (LACDPW) database (http://dpw.lacounty.gov/general/wells/) and from the database from Geotracker (http://geotracker.waterboards.ca.gov/map/) for nearby wells indicate groundwater depths as summarized in Table A-.

Table A-1
Groundwater Wells in the Vicinity of the Site

Well Identification	Monitoring Period	Approximate location relative to the site	Shallowest groundwater depth
LACDPW Well ID 1290P State # 2S15W13P07	February 1966 to April 2015	0.7 miles to the southwest	19 feet on September 2000 (deemed not relevant due to proximity to Ballona Creek)
LACDPW Well ID 2578X State # 2S15W11F05	January 1954 to September 2009	1.1 miles to the northwest	89 feet on November 1999
LACDPW Well ID 2578AA State # 2S15W11F08	July 1964 to September 2010	1.1 miles to the northwest	66 feet on November 2008
Geotracker well cluster T0603703279	March 2002 to November 2009	0.3miles to the northeast	21 feet on March 2005
Geotracker well cluster T0603705478, MW6 through MW8	September 2002 to November 2013	0.16 miles to the southwest	24.6 feet on April 2008

Based on the assessment of the local stratigraphy and local topography, it is Tetra Tech's opinion that the water levels at well 1290P are not representative of the groundwater levels at the site because they are affected by the adjacent Ballona Creek. Based on the other available data from LACDPW and the Geotracker wells Tetra Tech concludes that in the project area the groundwater has been deeper than about 21 feet within the last 50 years. Therefore, it is recommended that for the design of the infiltration facilities a groundwater depth of 21 feet may be considered. For temporary/construction conditions, groundwater depth at 27.5 feet may be considered. For buoyancy considerations the historical high of 13 feet should be considered.

REVISE Section TEMPORARY EXCAVATIONS page 20.

ADD: TEMPORARY SLOPE AND TRENCH EXCAVATIONS

The on-site soils are not expected to pose unusual excavation difficulties, and therefore, conventional earth-moving equipment may be used. Localized sloughing/raveling of exposed soil intervals should be anticipated. All trench excavations should be performed in accordance with Cal-OSHA regulations. The on-site soils may be considered Type C soils to a depth of 20 feet, as defined by the current Cal-OSHA soil classification.

Unsurcharged excavations: Sides of unsurcharged temporary trenches up to 5 feet deep may be excavated with vertical walls. Deep temporary unsurcharged excavations less than 20 feet deep should be sloped back from top to bottom (i.e., no vertical cut at the top) at an inclination of 1.5(H):1(V) or flatter according to Cal-OSHA. A 4-foot vertical high wall is acceptable at the toe of the 1.5(H):1(V) slope. All excavations where the bottom vertical height of the trench exceeds 4 feet must be shielded to a height of at least 18 inches above the top of the vertical side. Where space for sloped sides is not available, shoring will be necessary.

Surcharge setback recommendations: Stockpiled (excavated) materials should be placed no closer than 5 feet from the top of the excavation. A greater setback may be necessary when considering surcharge loads such as heavy vehicles, concrete trucks and cranes. Tetra Tech should be advised of such heavy vehicle loadings so that specific setback requirements can be established for the used equipment. Alternatively, a shoring system may be designed to allow reduction in the setback distance.

Personnel from Tetra Tech should observe the excavation progress so that appropriate modifications to the excavation design may be recommended, if necessary, due to encountered conditions differing from the design assumptions.

Revise SHORING DESGIN pages 21 to 29

ADD: TEMPORARY SHORED EXCAVATION

Significant excavation is required for the construction for the proposed infiltration and storage underground vaults. If the excavation depth is no greater than 15 feet a cantilevered shoring may be feasible. Deeper vertical wall excavations may require internally braced shoring or some other type of shoring system like a soil nail wall. Presented herein are preliminary design recommendations for the following shoring systems:

- A soldier pile wall cantilevered system;
- A soldier pile wall with internal bracing; and
- A soil nail wall system.

We can furnish specific design recommendations as the design progresses, if requested. The designer will need to take into account the presence of adjacent structures, utilities, conduits, and other underground structures that may be affected by the shoring system.

All components of the shoring system, should be designed by a specialist Registered Civil Engineer in the State of California and should further satisfy requirements of Cal-OSHA. It is recommended that all shoring designs be reviewed by the Geotechnical Engineer. The following recommendations are based on the assumption that groundwater remains below the bottom of the shoring system (e.g., below the pile tips), and the face of the shoring is not subject to hydrostatic forces within the retained soils.

Soldier Pile and Lagging Wall System

Temporary soldier pile and lagging shoring system may be used to facilitate the proposed excavation. Tiebacks or braces are not usually required for excavation depths less than about 15 feet.

The soldier pile and lagging system would consist of steel soldier piles placed in drilled holes, backfilled with concrete. If the soldier piles are to be retrieved after construction, the soldier piles below the excavation bottom should be installed into holes backfilled with a 2-sack cement-sand slurry or approved equivalent (e.g., CLSM), and pea gravel could be used to backfill the hole from the dredge line to the top. If the contractor chooses instead to use a well-rounded uniform pea gravel material to fill the hole below the excavation bottom then a reduction of 33 percent should be applied to the passive resistance values provided in Table A-2 due to the pea gravel entrenching into the adjacent soil.

Continuous timber lagging or steel plates may be used between the soldier piles. If steel plates are used, these should be installed behind the front flange (closest to the excavation) and not behind the back flange (closest to the retained soil). Lagging should be removed at the time of backfilling.

Cantilever Soldier Pile Wall Design

Table A-2 below summarizes the governing geotechnical design parameters and loading diagrams for a cantilevered soldier pile wall shoring system. These values are based on the following assumptions:

- The shored soil grade is level at the ground surface,
- There are no hydrostatic pressures behind the wall lagging,
- There are no hydrostatic pressures above the soldier pile tips, and
- The shoring is temporary.

Any surcharge (live or dead load) located within a 1(H):1(V) plane drawn up from the base of the shoring should be added to the lateral earth pressures. The lateral contribution of a uniform surcharge load beginning immediately behind the wall and extending a horizontal distance equal to at least the retained height, may be calculated by multiplying the surcharge by a factor of 0.31. This uniform lateral load should be applied as a minimum throughout the whole exposed height of the soldier pile wall. As a minimum, a 2 feet of equivalent uniform soil surcharge, i.e., 240 psf, is recommended to be included to account for nominal construction surcharge. This office can provide recommendations for other surcharge configurations, if requested.

To resist the lateral loading on shoring, the necessary depth of penetration of isolated soldier piles below the excavation bottom can be calculated based on the passive soil resistance provided in Table A-2. Passive resistance should be ignored for the upper 12 inches below excavation bottom to account for potential near-surface soil disturbance. The passive resistance of individual soldier piles in Table A-2 was increased to account for soil arching and factored by a Factor of Safety of 1.5. The provided values are applicable for soldier piles that are spaced no closer than 2.7 pile widths/diameters. For closer spacing the passive resistance would need to be reduced.

Development of hydrostatic pressures is not anticipated above a depth of about 27.5 feet based on the current groundwater conditions.

Table A-2
Design Parameters for Temporary Cantilever Soldier Pile Wall Shoring

GEOTECHNICAL DESIGN PARAMETERS	
Excavation bottom depth	Up to ~ 15 feet
Subsurface materials above the bottom depth	**Alluvial Soils** Mostly medium dense sands and stiff silts (materials to ~15 feet below existing grade)
Soil unit weight, γ	125 pcf
Design friction angle, ϕ	32°
Design cohesion, c	0 psf
Stability number, Ns = $\frac{\gamma \cdot H}{c}$	n/a
ACTIVE PRESSURE	
Ka … coefficient of active lateral pressure	0.31
Equivalent fluid density, EFD	38 pcf (i.e., triangular distribution)
ALLOWABLE PASSIVE PRESSURE BELOW EXCAVATION BOTTOM **(applicable to depths of up to 27.5 feet)**	
Soil unit weight, γ	125 pcf
Design friction angle, ϕ	34°
Passive Arching capability*	2.7
Kp … coefficient of passive lateral pressure	3.5
Equivalent fluid density, EFD – includes Safety Factor of 1.5 – considers arching** – the resistance from the upper 1 foot within the passive zone should be neglected	770 pcf EFD (i.e., triangular distribution)

* Per Caltrans Trenching and Shoring Manual (2011)
** Applicable without reduction for soldier pile spacing > 2.7 times the effective pile width. This office can provide recommendations for reduction of the allowable passive pressure for more closely spaced soldier piles

Lateral Earth Pressures for Braced Shoring

If the invert of the storage and infiltration units is deeper than about 15 feet, braced shoring may be required. Similarly, excavations for other structures like pre-treatment units, pump vaults, etc. may also require braced shoring. The use of steel anchors (tiebacks) is not likely to be practical at this site due to encroachment issues related to the close presence of utilities, homes, and traveled roads. Internal bracing can be provided with struts or rakers. The struts or rakers can be designed for the earth pressures provided in Table A-3, and shown schematically in Diagram 1, where P_{total} is the total horizontal force on the wall and σ is the maximum horizontal soil pressure ordinate. For the design of the braced shoring the parameters provided in Table A-3 should be used. This earth pressure diagram assumes:

- The grade behind the shoring is level;
- There are no hydrostatic pressures behind the wall lagging;
- Groundwater is below the excavation bottom;
- The shoring is temporary.

Any surcharge (live or dead load) located within a 1(H):1(V) plane drawn up from the base of the shoring should be added to the lateral earth pressures. The lateral contribution of a uniform surcharge load beginning immediately behind the wall and extending a horizontal distance equal to at least the retained height, may be calculated by multiplying the surcharge by a factor of 0.31. This uniform lateral load, should be applied as a minimum throughout the whole exposed height of the soldier pile wall. As a minimum, a 2 feet of equivalent uniform soil surcharge, i.e., 240 psf, is recommended to be included to account for nominal construction surcharge. This office can provide recommendations for other surcharge configurations, if requested.

A raker bracing system may also be used to internally brace the soldier piles. If used, the raker bracing could be supported laterally by temporary concrete footings (deadmen). For the design of such temporary footings poured with the bearing surface normal to the rakers inclined at 45 to 60 degrees from the vertical, a bearing value of 2,500 psf may be used, provided the shallowest point of the footings be at least 2 feet below the lowest adjacent grade. To reduce the movement of the shoring, the rakers must be tightly wedged against the footings and against the shoring system, and continuously adjusted to maintain a tight connection.

In addition to the internal struts the necessary depth of penetration of isolated soldier piles below the excavation bottom to resist the lateral loading on the shoring can be calculated based on the passive soil resistance provided in Table A-2.

Table A-3
Design Parameters for Temporary Shoring with Soldier Pile Wall Restrained with Bracing

GEOTECHNICAL DESIGN PARAMETERS	
Excavation bottom depth	Up to ~ 25 feet
Subsurface materials	**Alluvial Soils** Mostly medium dense sands and stiff silts up to 15 feet Mostly medium dense to dense sands with some interspersed layers of hard clays up to 25 feet
Soil unit weight, γ	125 pcf
Design friction angle, ϕ	32°
Design cohesion, c	0 psf
Ka … coefficient of active lateral pressure	0.31
Loading Diagram behind the shoring	Trapezoidal load diagram (see Diagram 1 below)

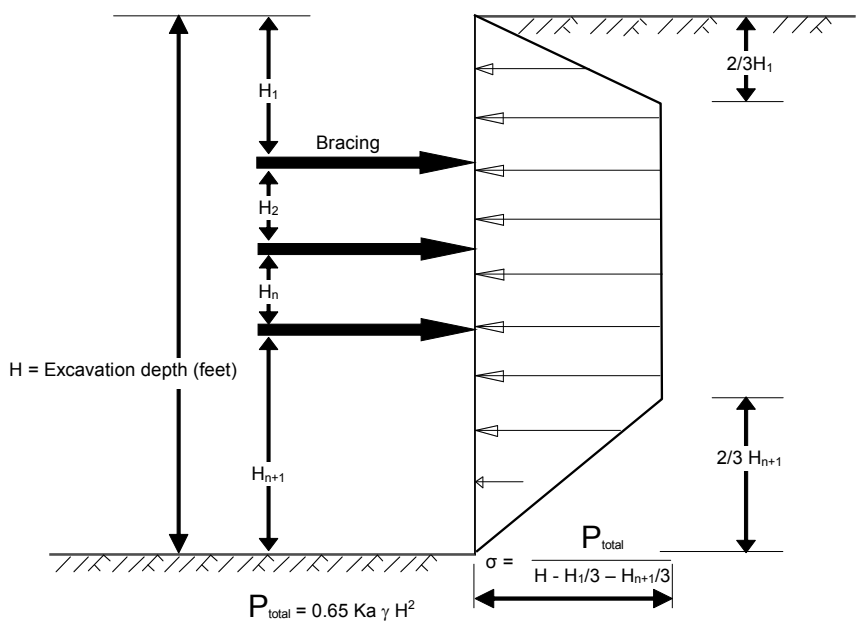


Diagram 1. Trapezoidal Lateral Earth Pressure Loading Diagram for Braced Shoring in Granular Materials

Lagging

Lagging should be designed for load calculated as the lateral earth pressure at each lagging level multiplied by a factor of 0.6 to account for soil arching. The maximum lagging load due to lateral earth pressures need not to exceed 400 psf when surcharges are not affecting the system. The loading on the lagging due to surcharges needs to be added to the loading due to the lateral earth pressures. A factor of 0.6 applied to the lateral pressures due to surcharges should be used in the design of the lagging.

Soil Nail Wall

A soil nail wall may be considered an option for support of the proposed excavation. The soil nail wall alternative may be more economical than a soldier pile wall shoring system. Recommended parameters to be used in the soil nail wall design are summarized in Table A-4.

Table A-4
Summary of Soil Nail Design Parameters

Design Parameter	Design Value
Ultimate Bond Stress (for rotary drilled nails)	10 psi
Ultimate Bond Stress (for augered nails)	
Yield Strength of Reinforcement Steel	60 ksi
Soil Nail Diameter	6 inches

Soil nail testing should be performed in accordance with the testing guidelines described in Chapter 9 of the FHWA Geotechnical Engineering Circular No.7 – Soil Nail Walls (FHWA-NHI-14-007, February 2015) under the oversight of the Geotechnical Engineer.

Other Shoring Related Items

Deflection

It is difficult to accurately predict the amount of deflection of a shored excavation as it largely depends on the quality and sequence of construction. It should be realized, however, that some deflection will likely occur. We estimate that this deflection could be on the order of 1 inch at the top of the shored excavation. If greater deflection occurs during construction, additional bracing or restraint may be necessary to reduce settlement. If it is desired to reduce the deflection of the shoring, a greater lateral earth pressure than recommended herein could be used in the shoring design.

Construction Staging

The shoring should be constructed utilizing a top-down method of construction whereas the soil is first partially excavated to produce a bench for installation of the topmost lagging. To continuously support the excavation, the lagging installation bench for soldier pile wall system should not be excavated more than 2.5 feet below the bottom elevation of the last lagging row and only for a short period of time, i.e., hours. This criterion may need to be re-evaluated depending on the construction observations. The shoring designer should analyze each stage of lagging installation to ensure that the wall has an adequate Factor of Safety at each excavated bench level.

The soil nail wall construction should be performed using top-down method in multiple stages. In the first stage, the vertical excavation will be cut to allow for construction of the top row of soil nails and the shotcrete facing. In the following stages, the soil will be excavated and soil nails installed and the shotcrete facing applied one row of soil nails at a time. In order to continuously support the excavation, the soil nail installation bench should not be excavated more than 5 feet below the elevation of the centerline of the soil nail row and only for a short period of time, i.e., hours. The shoring designer should analyze each stage of soil nail wall installation to ensure that the wall has an adequate Factor of Safety at each excavated bench level.

In general, it is expected that the conditions of the cut face encountered during construction will be favorable, i.e., no large scale or continuous caving is expected. However, this does not eliminate the potential for localized problems in cohesionless zones. If localized caving is encountered, it could be handled by reducing the unsupported height at that installation level and by flash coating the surface with shotcrete.

Shoring Performance Monitoring

Some means of monitoring the performance of the shoring system are recommended. The monitoring should consist of periodic visual inspections in conjunction with lateral and vertical surveying of the tops of the soldier piles or survey monuments installed on top or behind the shoring wall including the soil nail wall. Tetra Tech is available to provide specific recommendations when the design of the shoring system has been finalized.

ADD: LATERAL EARTH PRESSURES ON UNDERGROUND STRUCTURES

Based on the 2017 for the County of Los Angeles Building Code, which is based on the 2016 California Building Code (CBC), the design of retaining walls higher than 6 feet, as measured on the backfill side from the bottom of the footing to the finished ground level, requires inclusion of not only static lateral pressures but also inclusion of seismically induced lateral earth pressure increment.

The lateral pressures acting on the proposed on-site underground structures storage and infiltration structures should be calculated based on the recommendations provided in Table A-5. Lateral earth pressures presented in this table are for a level backfill.

According to the 2016 CBC the dynamic seismic lateral earth pressures on foundation walls and retaining walls should be determined using the Design Earthquake Ground Motions. Based on the USGS U.S. Seismic Design Maps website application (http://earthquake.usgs.gov/designmaps/us/application.php?), the PGA from the Design Response Spectrum at the site is approximately 0.51g where the design PGA is calculated as 0.4*S_{DS} and S_{DS} is the risk-targeted, maximum rotated acceleration direction, design response spectrum parameter for short periods.

The seismic induced earth pressure increments based on the Design Earthquake Ground Motions were estimated using the method recommended by Mikola and Sitar (2013). The seismic pressure increment for submerged backfill materials considers the effects of free water in the backfill, i.e., free-draining crushed rock, and a submerged backfill with clean sands with no excess pore pressure. The seismic pressure increments for the submerged backfill were computed based on the recommendations from Ebeling (1993). These recommendations are provided in Table A-5 (see also Diagram 2 for explanation of terms defining geometry).

Determination of whether the active or at-rest condition is appropriate for the design will depend on the flexibility of the walls. In walls with medium dense sand backfill that are free to rotate at least 0.002 radians (deflection at the top of the wall of at least 0.002 x H) may be designed for the active condition. Walls that are not capable of this movement, such as basement walls, should be assumed rigid and designed for the at-rest condition. The effect of any surcharge (dead or live load) located within a 1(H):1(V) plane drawn upward from the heel of the wall footing should be added to the lateral earth pressures.

Recommendations for lateral passive earth pressures during the design seismic event are also included in Table A-5. The total passive earth pressure coefficient for the combined static and seismic condition was computed as recommended by Taciroglu (2013).

It is noted that manufacturer's specifications for the storage and infiltration vaults may require the placement of crushed rock material immediately behind the underground units. In that case, a geotextile will be required to provide separation from the adjacent soil and seismic pore pressure increments will need to be accounted for (Ebeling, 1993). Where crushed rock is not required, the backfill materials within the zone immediately behind the subterranean walls, should have a Sand Equivalent of about 30, and an Expansion Index of less than 20. It is expected that the on-site

materials will be suitable as a backfill with the exception of fine-grained materials encountered within the upper 7 feet. Alternatively, approved non-expansive import material should be used for the backfill within at least 5 feet behind the underground walls. The approved backfill materials should be moisture-conditioned wet of the optimum moisture content, and placed in horizontal lifts not more than 8 inches in uncompacted thickness, and compacted to at least 90 percent of the maximum dry density, as evaluated by the latest version of ASTM D1557.

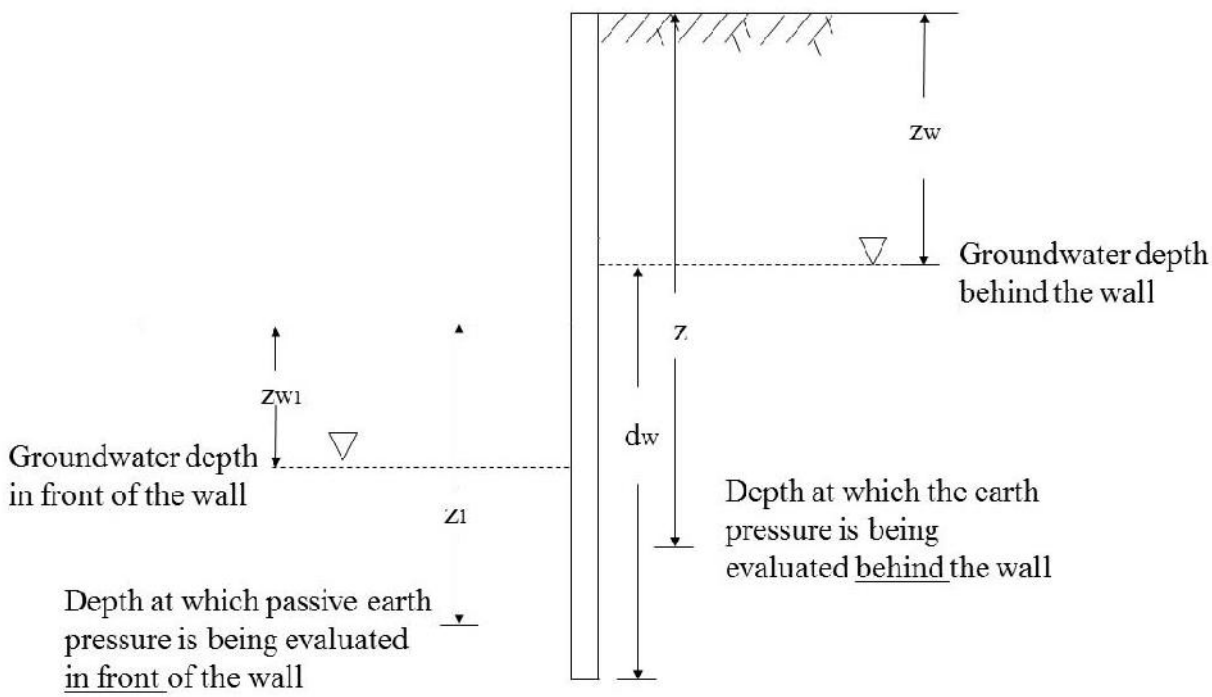


Diagram 2. Graphical Description of Geometrical Terms used in Table A-5

Table A-5
Geotechnical Design Parameters for Subterranean Walls
Lateral Pressures due to Static and Seismic Loads

Active Pressure for Yielding Walls		
Static *active* pressure (psf)	above groundwater ($z < z_w$)	$37z + 0.31Q$
	below groundwater ($z > z_w$)	$37z_w + 80(z - z_w) + 0.31Q$
Active seismic pressure increment (psf)	above groundwater ($z < z_w$)	$16z$
	below groundwater ($z > z_w$) (sandy backfill)	$16z_w + 24 (z - z_w)$
	below groundwater ($z > z_w$) (crushed rock backfill)	$16z_w + 14 (z - z_w) + 28\sqrt{(z - z_w) * d_w}$
At rest Pressure for Non-yielding Walls		
Static *at-rest* pressure (psf)	above groundwater ($z < z_w$)	$56z + 0.47Q$
	below groundwater ($z > z_w$)	$56z_w + 92(z - z_w) + 0.47Q$
At-rest seismic pressure increment (psf)	above groundwater ($z < z_w$)	$36z$
	below groundwater ($z > z_w$) (sandy backfill)	$36z_w + 54 (z - z_w)$
	below groundwater ($z > z_w$) (crushed rock backfill)	$36z_w + 34 (z - z_w) + 28\sqrt{(z - z_w) * d_w}$
Lateral Passive Pressure		
Allowable lateral *passive* pressure (psf) (Includes a Factor of Safety of 2)	above groundwater ($z_1 < z_{w1}$)	$195z_1$
	below groundwater ($z_1 > z_{w1}$)	$195z_{w1} + 100 (z_1 - z_{w1})$
Ultimate *passive* pressure for combined static and seismic conditions (psf) (no Factor of Safety applied)	above groundwater ($z_1 < z_{w1}$)	$270z_1$
	below groundwater ($z_1 > z_{w1}$)	$270z_{w1} + 145 (z_1 - z_{w1})$

Notes:

- Lateral Pressures due to Seismic Loading are based on a PGA=0.51g for a design response spectrum taken as 2/3 MCE_R response spectrum. The appropriate total seismic force (active plus seismic increment for yielding walls and at rest plus seismic increment for non-yielding walls) should be calculated be assuming a downward increasing tringle equivalent fluid pressure distribution. The resulting force should be assumed to act at 1/3 of the height of the wall above the bottom of the wall.
- Pressure based on backfill soil with $\phi = 32^o$, c = 0 psf, γ_t = 120 pcf (above groundwater), γ_t = 125 pcf (below groundwater)
- The hydrostatic pressure has been neglected for the computation of passive resistance below groundwater.
- The 2016 CBC requires that basement walls be designed for at rest earth pressures for static conditions.
- Ultimate passive pressure for combined static and seismic conditions evaluated using Taciroglu (2013).

Legend (see Diagram 2):

z … Depth (ft) below grade behind the wall – depth measured from the ground surface to the point where soil lateral pressure is being evaluated;
z_1 … Depth (ft) below grade where passive conditions apply, i.e., usually in front of the wall – depth measured behind the wall from the ground surface to the point where the soil lateral pressure is being evaluated;
z_w … Depth to groundwater (ft) below grade behind the wall – depth measured from the ground surface behind the wall to the groundwater;
z_{w1} … Depth to groundwater (ft) where passive conditions apply, i.e., usually in front of the wall – depth measured from the ground surface in the excavation to the groundwater;
d_w … Depth of groundwater along the wall (ft) – measured from the groundwater table behind the wall to the bottom of the structure;
Q … Uniform surcharge (psf) within a 1(H):1(V) plane drawn upward behind the wall from the heel of the wall footing.

ADD: GENERAL SITE PREPARATION

Foundations for structures founded at depths greater than 10 feet may be placed on competent native soils encountered at the excavated subgrade level. The exposed subgrade for buried structures, other than infiltration and storage units, should be scarified to a depth of 6 inches, moisture-conditioned wet of the optimum moisture content, and compacted to at least 90 percent of the maximum dry density as evaluated by the latest version of ASTM D1557. Storage and infiltration modules should be installed in accordance with the manufacturer's recommendations and will include the following general steps:

1. Scarify the exposed subgrade to a depth of 6 inches, moisture-condition wet of the optimum moisture content, and compact to at least 86 percent of the maximum dry density and no more than 90 percent, as evaluated by the latest version of ASTM D1557.
2. Place a layer of geotextile to provide separation between the crushed rock and the native subgrade.
3. Place a layer at least 6 inches thick consisting of ¾-inch crushed rock, and extend it at least 2 feet horizontally outside the perimeter of the storage/infiltration system.

The joints at the top of the underground storage/infiltration unit contacts should be covered to prevent soil movement (ground loss) into the storage area.

All fill placement associated with the replacement of overexcavated soils, fill placed to achieve finish grade or subgrade, or utility trench backfill should be moisture-conditioned wet of the optimum moisture content and compacted to at least 90 percent of the maximum dry density, as evaluated by the latest version of ASTM D1557.

Localized zones of loose and/or unstable soils may be encountered during the grading operations at the subgrade level and should be overexcavated and recompacted as recommended above for each type of structure to provide a competent uniform subgrade. If loose/soft/wet areas are encountered that are not practical to be excavated and processed below structures other than the infiltration/storage units, Table A-6 below provides options for stabilizing the subgrade. The objective is to produce at least 2 feet of competent fill to bridge over the impacted area. The specific type of remediation and associated area limits will need to be evaluated in the field by a representative of Tetra Tech.

Excavated on-site soils may be re-used as compacted fill provided they are free of organics, deleterious materials, debris and particles over 3 inches in largest dimension. Locally, particles up to 6 inches in largest dimension may be incorporated in the fill soils based on specific approval and placement recommendations provided by the Geotechnical Engineer of Record during grading.

In the event that any soil materials (including backfill or base course materials) are imported to the site, such soils should be sampled, tested, and approved by Tetra Tech prior to arrival on-site. In general, any soils imported to the site for use as fill should be predominantly granular and have an Expansion Index less than 20. Imported crushed rock to be used as base or backfill materials should be approved by Tetra Tech.

Table A-6
Conceptual Options for Handling Unstable Materials at the Excavated Subgrade For Structures other than the Infiltration/Storage Units

Areas where the soils are soft and/or unstable at the excavation subgrade	• Overexcavate at least 2 feet • Stabilize the soft subgrade by working open-graded aggregate material (typically 3/4" or 1.5" crushed rock, coarser for softer subgrade) at least 4 to 6 inches into the soil. • Place non-woven geotextile, Mirafi 180N or approved equivalent, over the stabilized subgrade. • Place and compact well-graded fill (e.g., AB, CMB) or general approved backfill material to specified compaction over the geotextile.
Larger areas where the soils are excessively soft and/or unstable	• Overexcavate at least 2 feet • Improve the soft subgrade by working in open-graded aggregate material as much as possible/practical into the subgrade. • Place non-woven geotextile, Mirafi 180N or approved equivalent, over the exposed soil. • Place at least 8 inches (12-18 inches preferred) of well graded aggregate material (e.g., AB, CMB); only reasonably achievable compaction is required. • Place non-woven geotextile, Mirafi 180N or approved equivalent, over the aggregate layer. • Place and compact fill to specified compaction over the geotextile.

ADD: UNDERGROUND STORAGE AND INFILTRATION GALLERY FOUNDATIONS

The foundations for the storage units and other deep buried structures (e.g., diversion structures, pump houses, pretreatment units, etc.) below a depth of about 10 feet can be designed based on the parameters provided in Table A-7.

It is noted that these buried structures are expected to impose loads on the underlying soils that are lower than the initial geostatic stresses, and therefore the settlements associated with the proposed construction are expected to be minor. This office can provide a more refined bearing capacity and settlement assessment once the facility layout and configuration are finalized.

Foundations Adjacent to Trenches

The bottom of any trenches for buried utilities and piping should be kept outside a zone defined by a 1(H):1(V) plane projected from the outside bottom edge of any existing or proposed foundation. Backfill materials and procedures shall conform to the recommendations provided in the "General Site Preparation" section of this report. If any piping needs to be placed within the zone of influence, the pipes should be designed to account for the increased surcharge from the applied foundation pressures and to withstand potential differential settlement between the surcharged and unsurcharged segments of the pipe. Generally, the pipes within the impacted zone should be protected with concrete encasement, utilidors, or other suitable form of protection. The piping and encasement should be designed to withstand differential settlements of up to 1 inch over a distance equal to half of the depth of the pipe below the bottom of the footing. This office should be contacted to review any specific utility interaction configurations and their proposed mitigation.

Foundation Construction Observations

To evaluate the presence of satisfactory materials at foundation subgrade, foundation excavations should be observed by a representative of Geotechnical Engineer, and be clean of loosened soil and debris before placing steel or concrete. If soft or loose soils or other unsatisfactory materials are encountered, such materials should be removed and replaced with compacted fill prior to construction or placement of the concrete foundation.

Table A-7
Geotechnical Design Parameters

Storage and Infiltration Units and Other Underground Structures with a Foundation Depth over 10 feet and less than 25 feet	
Dimensions (feet)	• All dimensions
Foundation Depth (at least 10 feet)	• Storage and Infiltration Units founded on at least 6 inches of ¾-inch crushed rock • Other buried structures founded on competent native subgrade
Allowable Bearing Pressure (psf)	• For storage and infiltration units: 3,700 + 65 (z - 10), where 10 < z < 20 is the foundation bottom depth in feet • For other underground structures with a foundation width less than 15 feet: 4,000 + 65(z-10), where 10 < z < 25 is the foundation bottom depth in feet
	• The allowable bearing value may be increased by one-third for transient live loads from wind or seismicity.
Estimated Static Settlement for Allowable Bearing Pressure	• Approximately 1-inch total settlement. • Approximately 0.5-inch differential settlement between supports or over a distance of 30 feet.
Allowable Friction Factor at the base to compute Lateral Sliding Resistance (incorporates Factor of Safety of 1.5)	• 0.40 for mass concrete on crushed rock • 0.30 for formed concrete on crushed rock • 0.40 for crushed rock on geotextile • 0.27 for mass concrete on native soil • 0.23 for formed concrete on native soil
Allowable Lateral Passive Resistance (static) (incorporates Factor of Safety of 2)	• See Table A-5
Combined Allowable Lateral Resistance	• The total resistance to lateral loads can be derived by combining the allowable lateral resistance due to friction and the allowable lateral passive resistance.
Ultimate Uplift Resistance	• The uplift resistance should be calculated determining the lateral force acting on the underground walls of the structure from active or at-rest lateral earth pressures as applicable multiplied by the applicable coefficient of friction. The weight of the soil above the storage/infiltration units may be added to the uplift resistance. • A total unit weight of 120 pcf may be used for the soil.

ADD: UPLIFT OF BURIED STRUCTURES

Enclosed buried structures at a depth greater than 13 feet should be designed to resist uplift forces due to potential buoyancy forces exerted by high groundwater at about 13 feet. These buoyant forces need to be accounted to prevent buried structures and pipelines from upward floating or shifting. The designer must consider all downward and upward forces and design for the worst-case scenario.

In accounting for the uplift resisting forces, the designer may include the resistance of the soil friction acting against the buried walls of the considered structures, and/or the soil to soil friction acting on the vertical projections of foundation edges. These frictional forces can be computed using the friction factors provided in Table A-7 and the applicable lateral pressures from Table A-5.

Several options could be considered by the designer to resist the uplift forces, such as:

- Increase the thickness of the soil cover on top of the structures by either raising the surface grade or by lowering the structures or combination thereof.
- Increase the weight of the structures by creating additional internal partitions or thickened walls.
- Place ballast concrete mass within the structure.
- Install a base that projects beyond beyond the structure footprint to increase the base area and the amount of overburden pressure at the foundation level due to the weight of the soil acting on the projection.
- Anchoring the structure foundation by the use of anchors, piles, or deadman.

Implementation of any these options may affect the hydraulic performance of the system.

ADD: PIPELINE DESIGN AND CONSTRUCTION

Design recommendations for proposed pipeline trenches and backfill are provided below.

Trench Excavation

Recommendations provided in the "Temporary Slopes and Trench Excavations" section of this addendum should be followed for design and construction of trenches for the proposed pipelines.

Trench Bottom Preparation

Any particles larger than 3 inches should be removed from the bottom of the trench.

Trench Backfill

Bedding and pipe zone backfill material for the pipelines should consist of clean sand or gravel. The actual selection and suitability of the material should be determined based on the pipe design loading and requirements. The sandy materials found below a depth of 5 feet at the site are expected to be suitable for pipe bedding and pipe zone backfill. The bedding layer, i.e, backfill range between the pipe invert and the springline, should be moisture-conditioned to at least the optimum moisture content and compacted to at least 90 percent of maximum density per ASTM D1557. The pipe zone backfill, i.e., zone extending typically 6 to 12 inches above the pipe, should be moisture-conditioned to at least wet of optimum moisture and tamped to achieve a density of at least 90 percent of maximum density per ASTM D1557. The use of mechanized compaction equipment within the pipe zone should be carefully controlled to avoid overstressing or damaging the pipe. Backfill should be placed on each side of the pipe simultaneously to avoid unbalanced loads on the pipe.

General trench backfill zone extends from the top of the pipe zone backfill to the finished grade. Approved excavated soil may be used for general trench backfill. If the excavated fine-grained on-site material is used as the trench backfill, it should be moisture-conditioned to at least 120 percent of the optimum moisture content and compacted to at least 90 percent of maximum dry density per the latest version of ASTM D1557.

ADD: DESIGN INFILTRATION RATES

It is noted that Geotechnologies (2015) performed 6 infiltration tests using the borehole percolation methodology described in GS200.1 (2014). However, the water heads above the bottom of the borehole used in their infiltration testing ranged from 6 to 21 feet, which are more representative of testing conditions for drywells. Thus, the infiltration rates recommended by Geotechnologies are exceedingly high, and not really applicable for the design of underground galleries which are to be designed mostly for vertical flow at much lower heads. In addition, the methodology used by Geotechnologies to compute raw infiltration rates was based on the recommendations included in GS200.1 which have been superseded as described in the new County Guideliness GS200.2 (2017). Therefore, the methodology described in GS200.2 to compute adjusted infiltration rates has been implemented herein in the numerical modeling to update the rates reported by Geotechnologies.

In order to model the borehole percolation testing method, a closed-form solution for porous probes provided by Das (2006) formulas 6.61 and 6.63 for a falling head test condition and with a permeable porous base was used in order to estimate saturated hydraulic conductivities. The average hydraulic conductivity (k) can be calculated approximately as:

$$k = \frac{\pi d^2/4}{F(t_2 - t_1)} \ln\left(\frac{h_1}{h_2}\right)$$

where:

$$F = \frac{2\,\pi\,L}{\ln\left(\frac{L}{D}\right) + \sqrt{1 + \left(\frac{L}{D}\right)^2}}$$

D… is the diameter of the borehole (feet)
L… is the length of the screen borehole (feet)
h_1… is the starting effective head (feet)
h_2… is the finishing effective head (feet)
$t_2 - t_1$… is the time interval (seconds)
k… is the average hydraulic conductivity (feet/sec)

This equation is valid for a single percolation borehole with a ratio of $L/D > 4$, and it assumes that there is no interference from nearby boreholes or wells. The estimated hydraulic conductivities for each borehole percolation test estimated using the equation above are summarized in Table A-8. These hydraulic conductivities were used in turn to model a falling head test consistent with GS200.2 with an initial water head of 1.5 feet above the bottom of the borehole to more closely model the expected operational head of the underground galleries. Using this procedure, the raw infiltration rate was calculated. To obtain the design infiltration rate (see Table A-8), the reduction factors recommended in GS200.2 were applied to the raw infiltration rate as follows:

- A testing method reduction factor RF_t of 2 was applied as required by the guidelines to account for the direction of flow during the test and the reliability of the method.
- A reduction factor RF_v of 1.25 (typical range between 1 and 3) to account for effects related to site subsurface variability and the number of tests was used.
- A reduction factor RF_s of 2 (typical range between 1 and 3) to account for long-term siltation, and plugging, was used.

The adjusted percolation rates are summarized in Table A-8. Based on the adjusted infiltration rates summarized in this table, it is recommended that a design infiltration rate of 0.8 inches/hour be used for the design of the underground infiltration galleries. It is anticipated that if the invert of the facilities is shallower than 11 feet the 10-foot clearance required by the GS200.2 will be met at all locations. However, the infiltration facilities should have an invert depth of no less than 9.5 feet to avoid the upper fine-grained materials which are likely to have unacceptable infiltration capacities.

Geotechnologies (2015) did not recommend the installation of a stormwater infiltration system near B-3 given the groundwater depth of about 27.5 feet encountered in boring B-3, and the fact that fine-grained soils were encountered at that boring beginning at a depth of 22.5 feet. However, the data seems to indicate that the perched groundwater and stratigraphy encountered at B-3 is a localized phenomenon as a nearby boring B-2 drilled to a depth of 30 feet did not encounter water and the stratigraphy differed significantly from that encountered at B-3. Therefore, it is likely that the impervious layer is not a continuous layer and the underground galleries can also be extended along the whole proposed alignment. Tetra Tech recommends that to decrease the uncertainty existing in the area between Huron Avenue and Elanda Street regarding the presence of an impermeable layer at a depth of 22.5 feet, two borings be drilled in that section of the project to a depth of 35 feet to confirm subsurface conditions. Installing a monitoring well to monitor groundwater elevations in that area before construction is also recommended.

Table A-8
Adjusted Design Infiltration Rates

Borehole Percolation Number	Backcalculated Hydraulic Conductivity (cm/sec) Das (2006)	Estimated Raw Infiltration Rate (for an initial head of 1.5 feet) (inches/hour)	Adjusted Design Infiltration Rate (inches/hour)
B-1	2.86×10^{-3}	8.8	2.0
B-2	1.15×10^{-3}	3.3	0.8
B-4	3.43×10^{-3}	10.4	2.4
B-5	1.67×10^{-3}	4.8	1.2
B-7	2.12×10^{-3}	6.6	1.5
B-8	1.36×10^{-3}	4.0	1.0

CLOSURE

This document expands on the information provided in the previously issued report by Geotechnologies (2015) and is intended to provide a specific engineering and construction information for the subject project. Consequently, it cannot be considered an independent document, as it does not contain adequate background information. Thus, this addendum is directed only to the personnel with detailed knowledge of the subject project.

Tetra Tech has endeavored to perform its evaluation using the degree of care and skill ordinarily exercised under similar circumstances by reputable geotechnical professionals with experience in this area in similar soil conditions. No other warranty, either expressed or implied, is made as to the conclusions and recommendations contained in this addendum report.

REFERENCES

California Building Standards Commission, 2016 California Building Code, California Code of Regulations Title 24, Based on the 2015 International Building Code, July 2016.

California Department of Transportation (CALTRANS), 2011, Trenching and Shoring Manual. County of Los Angeles, Department of Public Works, Geotechnical and Materials Engineering Division, 2009. Review of Geotechnical Reports addressing Liquefaction. GME-3 (February 4).

County of Los Angeles Department of Public works, 2014. Low Impact Development Standards Manual, February 2014.

County of Los Angeles, 2017. Administrative Manual GS200.2 – Guidelines for Geotechnical Investigation and Reporting, Low Impact Development Stormwater Infiltration, Department of Public Works, Geotechnical and Materials Engineering Division, June 30, 2017.

Das, B. J., 2006. Principles of Geotechnical Engineering. Sixth Edition. Nelson Editors. Canada.

Federal Highway Administration (FHWA), 1999. Geotechnical Engineering Circular No. 4. Ground Anchors and Anchored Systems. FHWA-IF-99-015. June, 1999.

Federal Highway Administration (FHWA), 2015. Soil Nail Walls Reference Manual. FHWA-NHI-14-007. NHI Course No. 132085. February, 2015.

Naval Facilities Engineering Command (NAVFAC), 1982. Soil Mechanics, Foundations and Earth Structures. Design Manuals 7.01 and 7.02.

Mikola, G. R., and Sitar, N., 2013. "Seismic Earth Pressures on Retaining Structures in Cohesionless Soils." Report submitted to the California Department of Transportation (Caltrans), Report No. UCB GT 13-01, March 2013.

Taciroglu, E., Shamsabadi, A., and Shi-Yu X., 2013. Development of Improved Guidelines for Analysis and Design of Earth Retaining Structures. UCLA-SGEL Report 2013/02. Caltrans Final Report No. CA13-2270. July, 2013.

Terzaghi, K., Peck R., and Mesri G., (1996), Soil Mechanics in Engineering Practice, Third Edition, Published by Wiley-Interscience, February 7, 1996.

C AIR QUALITY CALEEMOD EMISSION RESULTS

Culver Stormwater Capture

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.15	Acre	1.15	50,094.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	11			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Schedule per Planning

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours estimated

Trips and VMT - Values as provided

Demolition -

Grading - Material export per Engineering

Construction Off-road Equipment Mitigation - Average Tier 2

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	200.00	109.00
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	4.00	92.00
tblConstructionPhase	NumDays	10.00	72.00
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	MaterialExported	0.00	24,400.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	638.00
tblTripsAndVMT	WorkerTripNumber	23.00	16.00
tblTripsAndVMT	WorkerTripNumber	21.00	60.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.8397	43.9885	26.8069	0.0915	1.2309	1.5898	2.8207	0.3302	1.4665	1.7967	0.0000	9,334.4905	9,334.4905	1.9364	0.0000	9,382.9003
2020	1.1832	12.9228	8.3368	0.0276	1.1077	0.4267	1.5344	0.2920	0.3945	0.6865	0.0000	2,784.3220	2,784.3220	0.4353	0.0000	2,795.2039
Maximum	**3.8397**	**43.9885**	**26.8069**	**0.0915**	**1.2309**	**1.5898**	**2.8207**	**0.3302**	**1.4665**	**1.7967**	**0.0000**	**9,334.4905**	**9,334.4905**	**1.9364**	**0.0000**	**9,382.9003**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.1819	56.0255	36.3704	0.0915	1.2204	1.3285	2.5489	0.3291	1.3263	1.6554	0.0000	9,334.4905	9,334.4905	1.9364	0.0000	9,382.9003
2020	0.7165	13.4923	9.9960	0.0276	1.1077	0.2909	1.3986	0.2920	0.2900	0.5820	0.0000	2,784.3220	2,784.3220	0.4353	0.0000	2,795.2039
Maximum	**2.1819**	**56.0255**	**36.3704**	**0.0915**	**1.2204**	**1.3285**	**2.5489**	**0.3291**	**1.3263**	**1.6554**	**0.0000**	**9,334.4905**	**9,334.4905**	**1.9364**	**0.0000**	**9,382.9003**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**42.30**	**-22.15**	**-31.93**	**0.00**	**0.45**	**19.69**	**9.36**	**0.18**	**13.15**	**9.90**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2019	5/17/2019	5	35	
2	Grading	Grading	5/18/2019	9/24/2019	5	92	
3	Building Construction	Building Construction	9/25/2019	2/24/2020	5	109	
4	Paving	Paving	2/25/2020	6/3/2020	5	72	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	1.00	81	0.73
Demolition	Excavators	1	1.00	158	0.38

Demolition	Off-Highway Trucks	2	2.00	402	0.38
Demolition	Other Construction Equipment	1	1.00	172	0.42
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	0.00	97	0.37
Grading	Concrete/Industrial Saws	1	1.00	81	0.73
Grading	Graders	1	0.00	187	0.41
Grading	Off-Highway Trucks	5	5.00	402	0.38
Grading	Rollers	2	1.00	80	0.38
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Tractors/Loaders/Backhoes	5	6.00	97	0.37
Grading	Trenchers	2	1.00	78	0.50
Building Construction	Air Compressors	1	1.00	78	0.48
Building Construction	Cranes	1	0.00	231	0.29
Building Construction	Cranes	2	6.00	231	0.29
Building Construction	Forklifts	1	0.00	89	0.20
Building Construction	Generator Sets	1	0.00	84	0.74
Building Construction	Skid Steer Loaders	2	5.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	0.00	97	0.37
Building Construction	Welders	3	0.00	46	0.45
Paving	Cement and Mortar Mixers	1	0.00	9	0.56
Paving	Pavers	1	0.00	130	0.42
Paving	Paving Equipment	1	0.00	132	0.36
Paving	Rollers	1	1.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	1.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	9	16.00	0.00	115.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Grading	17	43.00	0.00	2,413.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT

Building Construction	12	60.00	8.00	638.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7111	0.0000	0.7111	0.1077	0.0000	0.1077			0.0000			0.0000
Off-Road	0.6527	6.5939	3.9232	9.8700e-003		0.2863	0.2863		0.2657	0.2657		974.0359	974.0359	0.2900		981.2847
Total	**0.6527**	**6.5939**	**3.9232**	**9.8700e-003**	**0.7111**	**0.2863**	**0.9974**	**0.1077**	**0.2657**	**0.3734**		**974.0359**	**974.0359**	**0.2900**		**981.2847**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0394	1.3306	0.2694	3.9000e-003	0.0918	5.5500e-003	0.0974	0.0252	5.3100e-003	0.0305		421.4530	421.4530	0.0264		422.1122
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.0784	0.0545	0.7189	1.9000e-003	0.1788	1.3900e-003	0.1802	0.0474	1.2800e-003	0.0487		188.9583	188.9583	5.9100e-003		189.1060
Total	**0.1178**	**1.3851**	**0.9883**	**5.8000e-003**	**0.2707**	**6.9400e-003**	**0.2776**	**0.0726**	**6.5900e-003**	**0.0792**		**610.4113**	**610.4113**	**0.0323**		**611.2182**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2773	0.0000	0.2773	0.0420	0.0000	0.0420			0.0000			0.0000
Off-Road	0.2732	7.8448	5.6302	9.8700e-003		0.2001	0.2001		0.2001	0.2001	0.0000	974.0359	974.0359	0.2900		981.2847
Total	**0.2732**	**7.8448**	**5.6302**	**9.8700e-003**	**0.2773**	**0.2001**	**0.4774**	**0.0420**	**0.2001**	**0.2421**	**0.0000**	**974.0359**	**974.0359**	**0.2900**		**981.2847**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0394	1.3306	0.2694	3.9000e-003	0.0918	5.5500e-003	0.0974	0.0252	5.3100e-003	0.0305		421.4530	421.4530	0.0264		422.1122
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0784	0.0545	0.7189	1.9000e-003	0.1788	1.3900e-003	0.1802	0.0474	1.2800e-003	0.0487		188.9583	188.9583	5.9100e-003		189.1060
Total	**0.1178**	**1.3851**	**0.9883**	**5.8000e-003**	**0.2707**	**6.9400e-003**	**0.2776**	**0.0726**	**6.5900e-003**	**0.0792**		**610.4113**	**610.4113**	**0.0323**		**611.2182**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0173	0.0000	0.0173	1.8700e-003	0.0000	1.8700e-003			0.0000			0.0000
Off-Road	3.3144	33.2207	22.7244	0.0552		1.5417	1.5417		1.4207	1.4207		5,462.4105	5,462.4105	1.7100		5,505.1611
Total	**3.3144**	**33.2207**	**22.7244**	**0.0552**	**0.0173**	**1.5417**	**1.5590**	**1.8700e-003**	**1.4207**	**1.4226**		**5,462.4105**	**5,462.4105**	**1.7100**		**5,505.1611**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3147	10.6213	2.1504	0.0312	0.7330	0.0443	0.7773	0.2009	0.0424	0.2433		3,364.2547	3,364.2547	0.2105		3,369.5169
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2106	0.1466	1.9322	5.1000e-003	0.4806	3.7400e-003	0.4844	0.1275	3.4500e-003	0.1309		507.8253	507.8253	0.0159		508.2223
Total	**0.5253**	**10.7679**	**4.0826**	**0.0363**	**1.2136**	**0.0481**	**1.2617**	**0.3283**	**0.0459**	**0.3742**		**3,872.0799**	**3,872.0799**	**0.2264**		**3,877.7392**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					6.7400e-003	0.0000	6.7400e-003	7.3000e-004	0.0000	7.3000e-004			0.0000			0.0000
Off-Road	1.6567	45.2576	32.2879	0.0552		1.2805	1.2805		1.2805	1.2805	0.0000	5,462.4105	5,462.4105	1.7100		5,505.1611
Total	**1.6567**	**45.2576**	**32.2879**	**0.0552**	**6.7400e-003**	**1.2805**	**1.2872**	**7.3000e-004**	**1.2805**	**1.2812**	**0.0000**	**5,462.4105**	**5,462.4105**	**1.7100**		**5,505.1611**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3147	10.6213	2.1504	0.0312	0.7330	0.0443	0.7773	0.2009	0.0424	0.2433		3,364.2547	3,364.2547	0.2105		3,369.5169
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2106	0.1466	1.9322	5.1000e-003	0.4806	3.7400e-003	0.4844	0.1275	3.4500e-003	0.1309		507.8253	507.8253	0.0159		508.2223
Total	**0.5253**	**10.7679**	**4.0826**	**0.0363**	**1.2136**	**0.0481**	**1.2617**	**0.3283**	**0.0459**	**0.3742**		**3,872.0799**	**3,872.0799**	**0.2264**		**3,877.7392**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9062	10.7246	5.4842	0.0117		0.4679	0.4679		0.4322	0.4322		1,159.4897	1,159.4897	0.3560		1,168.3890
Total	**0.9062**	**10.7246**	**5.4842**	**0.0117**		**0.4679**	**0.4679**		**0.4322**	**0.4322**		**1,159.4897**	**1,159.4897**	**0.3560**		**1,168.3890**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0702	2.3703	0.4799	6.9500e-003	0.2326	9.8900e-003	0.2425	0.0618	9.4700e-003	0.0712		750.7815	750.7815	0.0470		751.9558
Vendor	0.0308	0.9154	0.2213	2.0700e-003	0.0512	6.0600e-003	0.0573	0.0147	5.8000e-003	0.0205		220.9758	220.9758	0.0146		221.3413
Worker	0.2939	0.2045	2.6960	7.1200e-003	0.6707	5.2200e-003	0.6759	0.1779	4.8100e-003	0.1827		708.5934	708.5934	0.0222		709.1475
Total	**0.3949**	**3.4902**	**3.3972**	**0.0161**	**0.9544**	**0.0212**	**0.9756**	**0.2544**	**0.0201**	**0.2744**		**1,680.3507**	**1,680.3507**	**0.0838**		**1,682.4446**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3536	10.2654	6.8750	0.0117		0.2736	0.2736		0.2736	0.2736	0.0000	1,159.4897	1,159.4897	0.3560		1,168.3890
Total	**0.3536**	**10.2654**	**6.8750**	**0.0117**		**0.2736**	**0.2736**		**0.2736**	**0.2736**	**0.0000**	**1,159.4897**	**1,159.4897**	**0.3560**		**1,168.3890**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Hauling	0.0702	2.3703	0.4799	6.9500e-003	0.2326	9.8900e-003	0.2425	0.0618	9.4700e-003	0.0712		750.7815	750.7815	0.0470		751.9558
Vendor	0.0308	0.9154	0.2213	2.0700e-003	0.0512	6.0600e-003	0.0573	0.0147	5.8000e-003	0.0205		220.9758	220.9758	0.0146		221.3413
Worker	0.2939	0.2045	2.6960	7.1200e-003	0.6707	5.2200e-003	0.6759	0.1779	4.8100e-003	0.1827		708.5934	708.5934	0.0222		709.1475
Total	**0.3949**	**3.4902**	**3.3972**	**0.0161**	**0.9544**	**0.0212**	**0.9756**	**0.2544**	**0.0201**	**0.2744**		**1,680.3507**	**1,680.3507**	**0.0838**		**1,682.4446**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8203	9.6959	5.2158	0.0117		0.4094	0.4094		0.3781	0.3781		1,135.3034	1,135.3034	0.3556		1,144.1944
Total	**0.8203**	**9.6959**	**5.2158**	**0.0117**		**0.4094**	**0.4094**		**0.3781**	**0.3781**		**1,135.3034**	**1,135.3034**	**0.3556**		**1,144.1944**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0651	2.2049	0.4682	6.8700e-003	0.3858	8.0700e-003	0.3939	0.0994	7.7200e-003	0.1071		742.8094	742.8094	0.0461		743.9621
Vendor	0.0263	0.8395	0.1999	2.0600e-003	0.0512	4.1600e-003	0.0554	0.0147	3.9800e-003	0.0187		219.5588	219.5588	0.0138		219.9034
Worker	0.2715	0.1825	2.4529	6.8900e-003	0.6707	5.0900e-003	0.6758	0.1779	4.6900e-003	0.1826		686.6505	686.6505	0.0197		687.1440

Total	**0.3629**	**3.2269**	**3.1210**	**0.0158**	**1.1077**	**0.0173**	**1.1250**	**0.2920**	**0.0164**	**0.3084**		**1,649.0186**	**1,649.0186**	**0.0796**		**1,651.0095**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3536	10.2654	6.8750	0.0117		0.2736	0.2736		0.2736	0.2736	0.0000	1,135.3034	1,135.3034	0.3556		1,144.1944
Total	**0.3536**	**10.2654**	**6.8750**	**0.0117**		**0.2736**	**0.2736**		**0.2736**	**0.2736**	**0.0000**	**1,135.3034**	**1,135.3034**	**0.3556**		**1,144.1944**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0651	2.2049	0.4682	6.8700e-003	0.3858	8.0700e-003	0.3939	0.0994	7.7200e-003	0.1071		742.8094	742.8094	0.0461		743.9621
Vendor	0.0263	0.8395	0.1999	2.0600e-003	0.0512	4.1600e-003	0.0554	0.0147	3.9800e-003	0.0187		219.5588	219.5588	0.0138		219.9034
Worker	0.2715	0.1825	2.4529	6.8900e-003	0.6707	5.0900e-003	0.6758	0.1779	4.6900e-003	0.1826		686.6505	686.6505	0.0197		687.1440
Total	**0.3629**	**3.2269**	**3.1210**	**0.0158**	**1.1077**	**0.0173**	**1.1250**	**0.2920**	**0.0164**	**0.3084**		**1,649.0186**	**1,649.0186**	**0.0796**		**1,651.0095**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0522	0.5233	0.5216	7.2000e-004		0.0332	0.0332		0.0306	0.0306		69.3544	69.3544	0.0224		69.9151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.0522**	**0.5233**	**0.5216**	**7.2000e-004**		**0.0332**	**0.0332**		**0.0306**	**0.0306**		**69.3544**	**69.3544**	**0.0224**		**69.9151**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0588	0.0395	0.5315	1.4900e-003	0.1453	1.1000e-003	0.1464	0.0385	1.0200e-003	0.0396		148.7743	148.7743	4.2800e-003		148.8812
Total	**0.0588**	**0.0395**	**0.5315**	**1.4900e-003**	**0.1453**	**1.1000e-003**	**0.1464**	**0.0385**	**1.0200e-003**	**0.0396**		**148.7743**	**148.7743**	**4.2800e-003**		**148.8812**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.0336	0.6942	0.5407	7.2000e-004		0.0281	0.0281		0.0281	0.0281	0.0000	69.3544	69.3544	0.0224		69.9151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.0336**	**0.6942**	**0.5407**	**7.2000e-004**		**0.0281**	**0.0281**		**0.0281**	**0.0281**	**0.0000**	**69.3544**	**69.3544**	**0.0224**		**69.9151**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0588	0.0395	0.5315	1.4900e-003	0.1453	1.1000e-003	0.1464	0.0385	1.0200e-003	0.0396		148.7743	148.7743	4.2800e-003		148.8812
Total	**0.0588**	**0.0395**	**0.5315**	**1.4900e-003**	**0.1453**	**1.1000e-003**	**0.1464**	**0.0385**	**1.0200e-003**	**0.0396**		**148.7743**	**148.7743**	**4.2800e-003**		**148.8812**

Culver Stormwater Capture

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.15	Acre	1.15	50,094.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	11			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Schedule per Planning

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours estimated

Trips and VMT - Values as provided

Demolition -

Grading - Material export per Engineering

Construction Off-road Equipment Mitigation - Average Tier 2

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	200.00	109.00
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	4.00	92.00
tblConstructionPhase	NumDays	10.00	72.00
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	MaterialExported	0.00	24,400.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	638.00
tblTripsAndVMT	WorkerTripNumber	23.00	16.00
tblTripsAndVMT	WorkerTripNumber	21.00	60.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.8647	44.2314	26.7334	0.0908	1.2309	1.5903	2.8213	0.3302	1.4671	1.7972	0.0000	9,261.3616	9,261.3616	1.9422	0.0000	9,309.9162
2020	1.2103	12.9855	8.1387	0.0270	1.1077	0.4268	1.5345	0.2920	0.3946	0.6866	0.0000	2,724.5098	2,724.5098	0.4364	0.0000	2,735.4197
Maximum	**3.8647**	**44.2314**	**26.7334**	**0.0908**	**1.2309**	**1.5903**	**2.8213**	**0.3302**	**1.4671**	**1.7972**	**0.0000**	**9,261.3616**	**9,261.3616**	**1.9422**	**0.0000**	**9,309.9162**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.2069	56.2683	36.2969	0.0908	1.2204	1.3291	2.5494	0.3291	1.3268	1.6559	0.0000	9,261.3616	9,261.3616	1.9422	0.0000	9,309.9162
2020	0.7436	13.5550	9.7979	0.0270	1.1077	0.2911	1.3987	0.2920	0.2901	0.5821	0.0000	2,724.5098	2,724.5098	0.4364	0.0000	2,735.4197
Maximum	**2.2069**	**56.2683**	**36.2969**	**0.0908**	**1.2204**	**1.3291**	**2.5494**	**0.3291**	**1.3268**	**1.6559**	**0.0000**	**9,261.3616**	**9,261.3616**	**1.9422**	**0.0000**	**9,309.9162**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**41.86**	**-22.03**	**-32.18**	**0.00**	**0.45**	**19.68**	**9.36**	**0.18**	**13.15**	**9.90**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2019	5/17/2019	5	35	
2	Grading	Grading	5/18/2019	9/24/2019	5	92	
3	Building Construction	Building Construction	9/25/2019	2/24/2020	5	109	
4	Paving	Paving	2/25/2020	6/3/2020	5	72	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	1.00	81	0.73
Demolition	Excavators	1	1.00	158	0.38

Demolition	Off-Highway Trucks	2	2.00	402	0.38
Demolition	Other Construction Equipment	1	1.00	172	0.42
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	0.00	97	0.37
Grading	Concrete/Industrial Saws	1	1.00	81	0.73
Grading	Graders	1	0.00	187	0.41
Grading	Off-Highway Trucks	5	5.00	402	0.38
Grading	Rollers	2	1.00	80	0.38
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Tractors/Loaders/Backhoes	5	6.00	97	0.37
Grading	Trenchers	2	1.00	78	0.50
Building Construction	Air Compressors	1	1.00	78	0.48
Building Construction	Cranes	1	0.00	231	0.29
Building Construction	Cranes	2	6.00	231	0.29
Building Construction	Forklifts	1	0.00	89	0.20
Building Construction	Generator Sets	1	0.00	84	0.74
Building Construction	Skid Steer Loaders	2	5.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	0.00	97	0.37
Building Construction	Welders	3	0.00	46	0.45
Paving	Cement and Mortar Mixers	1	0.00	9	0.56
Paving	Pavers	1	0.00	130	0.42
Paving	Paving Equipment	1	0.00	132	0.36
Paving	Rollers	1	1.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	1.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	9	16.00	0.00	115.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Grading	17	43.00	0.00	2,413.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT

Building Construction	12	60.00	8.00	638.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7111	0.0000	0.7111	0.1077	0.0000	0.1077			0.0000			0.0000
Off-Road	0.6527	6.5939	3.9232	9.8700e-003		0.2863	0.2863		0.2657	0.2657		974.0359	974.0359	0.2900		981.2847
Total	**0.6527**	**6.5939**	**3.9232**	**9.8700e-003**	**0.7111**	**0.2863**	**0.9974**	**0.1077**	**0.2657**	**0.3734**		**974.0359**	**974.0359**	**0.2900**		**981.2847**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0402	1.3593	0.2839	3.8600e-003	0.0918	5.6200e-003	0.0975	0.0252	5.3800e-003	0.0305		416.4038	416.4038	0.0272		417.0844
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.0853	0.0597	0.6486	1.7700e-003	0.1788	1.3900e-003	0.1802	0.0474	1.2800e-003	0.0487		176.7449	176.7449	5.5200e-003		176.8830
Total	**0.1255**	**1.4190**	**0.9325**	**5.6300e-003**	**0.2707**	**7.0100e-003**	**0.2777**	**0.0726**	**6.6600e-003**	**0.0793**		**593.1487**	**593.1487**	**0.0327**		**593.9674**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2773	0.0000	0.2773	0.0420	0.0000	0.0420			0.0000			0.0000
Off-Road	0.2732	7.8448	5.6302	9.8700e-003		0.2001	0.2001		0.2001	0.2001	0.0000	974.0359	974.0359	0.2900		981.2847
Total	**0.2732**	**7.8448**	**5.6302**	**9.8700e-003**	**0.2773**	**0.2001**	**0.4774**	**0.0420**	**0.2001**	**0.2421**	**0.0000**	**974.0359**	**974.0359**	**0.2900**		**981.2847**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0402	1.3593	0.2839	3.8600e-003	0.0918	5.6200e-003	0.0975	0.0252	5.3800e-003	0.0305		416.4038	416.4038	0.0272		417.0844
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0853	0.0597	0.6486	1.7700e-003	0.1788	1.3900e-003	0.1802	0.0474	1.2800e-003	0.0487		176.7449	176.7449	5.5200e-003		176.8830
Total	**0.1255**	**1.4190**	**0.9325**	**5.6300e-003**	**0.2707**	**7.0100e-003**	**0.2777**	**0.0726**	**6.6600e-003**	**0.0793**		**593.1487**	**593.1487**	**0.0327**		**593.9674**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0173	0.0000	0.0173	1.8700e-003	0.0000	1.8700e-003			0.0000			0.0000
Off-Road	3.3144	33.2207	22.7244	0.0552		1.5417	1.5417		1.4207	1.4207		5,462.4105	5,462.4105	1.7100		5,505.1611
Total	**3.3144**	**33.2207**	**22.7244**	**0.0552**	**0.0173**	**1.5417**	**1.5590**	**1.8700e-003**	**1.4207**	**1.4226**		**5,462.4105**	**5,462.4105**	**1.7100**		**5,505.1611**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3210	10.8502	2.2659	0.0308	0.7330	0.0449	0.7779	0.2009	0.0429	0.2438		3,323.9491	3,323.9491	0.2173		3,329.3821
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2293	0.1605	1.7432	4.7700e-003	0.4806	3.7400e-003	0.4844	0.1275	3.4500e-003	0.1309		475.0020	475.0020	0.0148		475.3730
Total	**0.5503**	**11.0107**	**4.0090**	**0.0356**	**1.2136**	**0.0486**	**1.2622**	**0.3283**	**0.0464**	**0.3747**		**3,798.9511**	**3,798.9511**	**0.2322**		**3,804.7551**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					6.7400e-003	0.0000	6.7400e-003	7.3000e-004	0.0000	7.3000e-004			0.0000			0.0000
Off-Road	1.6567	45.2576	32.2879	0.0552		1.2805	1.2805		1.2805	1.2805	0.0000	5,462.4105	5,462.4105	1.7100		5,505.1611
Total	**1.6567**	**45.2576**	**32.2879**	**0.0552**	**6.7400e-003**	**1.2805**	**1.2872**	**7.3000e-004**	**1.2805**	**1.2812**	**0.0000**	**5,462.4105**	**5,462.4105**	**1.7100**		**5,505.1611**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3210	10.8502	2.2659	0.0308	0.7330	0.0449	0.7779	0.2009	0.0429	0.2438		3,323.9491	3,323.9491	0.2173		3,329.3821
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2293	0.1605	1.7432	4.7700e-003	0.4806	3.7400e-003	0.4844	0.1275	3.4500e-003	0.1309		475.0020	475.0020	0.0148		475.3730
Total	**0.5503**	**11.0107**	**4.0090**	**0.0356**	**1.2136**	**0.0486**	**1.2622**	**0.3283**	**0.0464**	**0.3747**		**3,798.9511**	**3,798.9511**	**0.2322**		**3,804.7551**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9062	10.7246	5.4842	0.0117		0.4679	0.4679		0.4322	0.4322		1,159.4897	1,159.4897	0.3560		1,168.3890
Total	**0.9062**	**10.7246**	**5.4842**	**0.0117**		**0.4679**	**0.4679**		**0.4322**	**0.4322**		**1,159.4897**	**1,159.4897**	**0.3560**		**1,168.3890**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0716	2.4214	0.5057	6.8700e-003	0.2326	0.0100	0.2426	0.0618	9.5800e-003	0.0713		741.7867	741.7867	0.0485		742.9992
Vendor	0.0322	0.9160	0.2465	2.0100e-003	0.0512	6.1600e-003	0.0574	0.0147	5.8900e-003	0.0206		214.6530	214.6530	0.0157		215.0458
Worker	0.3199	0.2240	2.4323	6.6600e-003	0.6707	5.2200e-003	0.6759	0.1779	4.8100e-003	0.1827		662.7935	662.7935	0.0207		663.3111
Total	**0.4238**	**3.5614**	**3.1844**	**0.0155**	**0.9544**	**0.0214**	**0.9758**	**0.2544**	**0.0203**	**0.2746**		**1,619.2332**	**1,619.2332**	**0.0849**		**1,621.3561**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3536	10.2654	6.8750	0.0117		0.2736	0.2736		0.2736	0.2736	0.0000	1,159.4897	1,159.4897	0.3560		1,168.3890
Total	**0.3536**	**10.2654**	**6.8750**	**0.0117**		**0.2736**	**0.2736**		**0.2736**	**0.2736**	**0.0000**	**1,159.4897**	**1,159.4897**	**0.3560**		**1,168.3890**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Hauling	0.0716	2.4214	0.5057	6.8700e-003	0.2326	0.0100	0.2426	0.0618	9.5800e-003	0.0713		741.7867	741.7867	0.0485		742.9992
Vendor	0.0322	0.9160	0.2465	2.0100e-003	0.0512	6.1600e-003	0.0574	0.0147	5.8900e-003	0.0206		214.6530	214.6530	0.0157		215.0458
Worker	0.3199	0.2240	2.4323	6.6600e-003	0.6707	5.2200e-003	0.6759	0.1779	4.8100e-003	0.1827		662.7935	662.7935	0.0207		663.3111
Total	**0.4238**	**3.5614**	**3.1844**	**0.0155**	**0.9544**	**0.0214**	**0.9758**	**0.2544**	**0.0203**	**0.2746**		**1,619.2332**	**1,619.2332**	**0.0849**		**1,621.3561**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8203	9.6959	5.2158	0.0117		0.4094	0.4094		0.3781	0.3781		1,135.3034	1,135.3034	0.3556		1,144.1944
Total	**0.8203**	**9.6959**	**5.2158**	**0.0117**		**0.4094**	**0.4094**		**0.3781**	**0.3781**		**1,135.3034**	**1,135.3034**	**0.3556**		**1,144.1944**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0664	2.2512	0.4915	6.7900e-003	0.3858	8.1500e-003	0.3940	0.0994	7.8000e-003	0.1072		733.7772	733.7772	0.0475		734.9655
Vendor	0.0275	0.8386	0.2229	2.0000e-003	0.0512	4.2200e-003	0.0554	0.0147	4.0400e-003	0.0188		213.2103	213.2103	0.0148		213.5804
Worker	0.2961	0.1998	2.2085	6.4500e-003	0.6707	5.0900e-003	0.6758	0.1779	4.6900e-003	0.1826		642.2190	642.2190	0.0184		642.6794

Total	**0.3900**	**3.2896**	**2.9229**	**0.0152**	**1.1077**	**0.0175**	**1.1251**	**0.2920**	**0.0165**	**0.3085**		**1,589.2064**	**1,589.2064**	**0.0808**		**1,591.2253**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3536	10.2654	6.8750	0.0117		0.2736	0.2736		0.2736	0.2736	0.0000	1,135.3034	1,135.3034	0.3556		1,144.1944
Total	**0.3536**	**10.2654**	**6.8750**	**0.0117**		**0.2736**	**0.2736**		**0.2736**	**0.2736**	**0.0000**	**1,135.3034**	**1,135.3034**	**0.3556**		**1,144.1944**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0664	2.2512	0.4915	6.7900e-003	0.3858	8.1500e-003	0.3940	0.0994	7.8000e-003	0.1072		733.7772	733.7772	0.0475		734.9655
Vendor	0.0275	0.8386	0.2229	2.0000e-003	0.0512	4.2200e-003	0.0554	0.0147	4.0400e-003	0.0188		213.2103	213.2103	0.0148		213.5804
Worker	0.2961	0.1998	2.2085	6.4500e-003	0.6707	5.0900e-003	0.6758	0.1779	4.6900e-003	0.1826		642.2190	642.2190	0.0184		642.6794
Total	**0.3900**	**3.2896**	**2.9229**	**0.0152**	**1.1077**	**0.0175**	**1.1251**	**0.2920**	**0.0165**	**0.3085**		**1,589.2064**	**1,589.2064**	**0.0808**		**1,591.2253**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0522	0.5233	0.5216	7.2000e-004		0.0332	0.0332		0.0306	0.0306		69.3544	69.3544	0.0224		69.9151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.0522**	**0.5233**	**0.5216**	**7.2000e-004**		**0.0332**	**0.0332**		**0.0306**	**0.0306**		**69.3544**	**69.3544**	**0.0224**		**69.9151**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0642	0.0433	0.4785	1.4000e-003	0.1453	1.1000e-003	0.1464	0.0385	1.0200e-003	0.0396		139.1474	139.1474	3.9900e-003		139.2472
Total	**0.0642**	**0.0433**	**0.4785**	**1.4000e-003**	**0.1453**	**1.1000e-003**	**0.1464**	**0.0385**	**1.0200e-003**	**0.0396**		**139.1474**	**139.1474**	**3.9900e-003**		**139.2472**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.0336	0.6942	0.5407	7.2000e-004		0.0281	0.0281		0.0281	0.0281	0.0000	69.3544	69.3544	0.0224		69.9151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.0336**	**0.6942**	**0.5407**	**7.2000e-004**		**0.0281**	**0.0281**		**0.0281**	**0.0281**	**0.0000**	**69.3544**	**69.3544**	**0.0224**		**69.9151**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0642	0.0433	0.4785	1.4000e-003	0.1453	1.1000e-003	0.1464	0.0385	1.0200e-003	0.0396		139.1474	139.1474	3.9900e-003		139.2472
Total	**0.0642**	**0.0433**	**0.4785**	**1.4000e-003**	**0.1453**	**1.1000e-003**	**0.1464**	**0.0385**	**1.0200e-003**	**0.0396**		**139.1474**	**139.1474**	**3.9900e-003**		**139.2472**

Culver Stormwater Capture

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.15	Acre	1.15	50,094.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	11			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Schedule per Planning

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours estimated

Trips and VMT - Values as provided

Demolition -

Grading - Material export per Engineering

Construction Off-road Equipment Mitigation - Average Tier 2

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	200.00	109.00
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	4.00	92.00
tblConstructionPhase	NumDays	10.00	72.00
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	MaterialExported	0.00	24,400.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	638.00
tblTripsAndVMT	WorkerTripNumber	23.00	16.00
tblTripsAndVMT	WorkerTripNumber	21.00	60.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2355	2.6863	1.6190	5.4200e-003	0.1056	0.0954	0.2010	0.0268	0.0881	0.1149	0.0000	501.6422	501.6422	0.1000	0.0000	504.1416
2020	0.0270	0.2748	0.1960	6.1000e-004	0.0263	9.5600e-003	0.0359	6.9600e-003	8.8300e-003	0.0158	0.0000	55.4367	55.4367	8.5700e-003	0.0000	55.6509
Maximum	**0.2355**	**2.6863**	**1.6190**	**5.4200e-003**	**0.1056**	**0.0954**	**0.2010**	**0.0268**	**0.0881**	**0.1149**	**0.0000**	**501.6422**	**501.6422**	**0.1000**	**0.0000**	**504.1416**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1333	3.2458	2.1375	5.4200e-003	0.0975	0.0751	0.1726	0.0256	0.0749	0.1006	0.0000	501.6418	501.6418	0.1000	0.0000	504.1413
2020	0.0172	0.2921	0.2290	6.1000e-004	0.0263	6.7200e-003	0.0331	6.9600e-003	6.7000e-003	0.0137	0.0000	55.4367	55.4367	8.5700e-003	0.0000	55.6509
Maximum	**0.1333**	**3.2458**	**2.1375**	**5.4200e-003**	**0.0975**	**0.0751**	**0.1726**	**0.0256**	**0.0749**	**0.1006**	**0.0000**	**501.6418**	**501.6418**	**0.1000**	**0.0000**	**504.1413**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**42.67**	**-19.48**	**-30.39**	**0.00**	**6.13**	**22.08**	**13.19**	**3.55**	**15.77**	**12.61**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-1-2019**	**6-30-2019**	0.8985	1.0762
2	**7-1-2019**	**9-30-2019**	1.5023	1.8189
3	**10-1-2019**	**12-31-2019**	0.5131	0.4799
4	**1-1-2020**	**3-31-2020**	0.2876	0.2916
5	**4-1-2020**	**6-30-2020**	0.0154	0.0189
		Highest	1.5023	1.8189

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2019	5/17/2019	5	35	
2	Grading	Grading	5/18/2019	9/24/2019	5	92	

3	Building Construction	Building Construction	9/25/2019	2/24/2020	5	109	
4	Paving	Paving	2/25/2020	6/3/2020	5	72	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	1.00	81	0.73
Demolition	Excavators	1	1.00	158	0.38
Demolition	Off-Highway Trucks	2	2.00	402	0.38
Demolition	Other Construction Equipment	1	1.00	172	0.42
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	0.00	97	0.37
Grading	Concrete/Industrial Saws	1	1.00	81	0.73
Grading	Graders	1	0.00	187	0.41
Grading	Off-Highway Trucks	5	5.00	402	0.38
Grading	Rollers	2	1.00	80	0.38
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Tractors/Loaders/Backhoes	5	6.00	97	0.37
Grading	Trenchers	2	1.00	78	0.50
Building Construction	Air Compressors	1	1.00	78	0.48
Building Construction	Cranes	1	0.00	231	0.29
Building Construction	Cranes	2	6.00	231	0.29
Building Construction	Forklifts	1	0.00	89	0.20
Building Construction	Generator Sets	1	0.00	84	0.74
Building Construction	Skid Steer Loaders	2	5.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	0.00	97	0.37
Building Construction	Welders	3	0.00	46	0.45
Paving	Cement and Mortar Mixers	1	0.00	9	0.56
Paving	Pavers	1	0.00	130	0.42
Paving	Paving Equipment	1	0.00	132	0.36
Paving	Rollers	1	1.00	80	0.38

Paving	Tractors/Loaders/Backhoes	1	1.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	9	16.00	0.00	115.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Grading	17	43.00	0.00	2,413.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	60.00	8.00	638.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0124	0.0000	0.0124	1.8800e-003	0.0000	1.8800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1154	0.0687	1.7000e-004		5.0100e-003	5.0100e-003		4.6500e-003	4.6500e-003	0.0000	15.4635	15.4635	4.6000e-003	0.0000	15.5786
Total	**0.0114**	**0.1154**	**0.0687**	**1.7000e-004**	**0.0124**	**5.0100e-003**	**0.0175**	**1.8800e-003**	**4.6500e-003**	**6.5300e-003**	**0.0000**	**15.4635**	**15.4635**	**4.6000e-003**	**0.0000**	**15.5786**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-004	0.0242	4.8200e-003	7.0000e-005	1.5800e-003	1.0000e-004	1.6800e-003	4.3000e-004	9.0000e-005	5.3000e-004	0.0000	6.6572	6.6572	4.2000e-004	0.0000	6.6678
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3500e-003	1.0700e-003	0.0117	3.0000e-005	3.0700e-003	2.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.8540	2.8540	9.0000e-005	0.0000	2.8563
Total	**2.0500e-003**	**0.0253**	**0.0165**	**1.0000e-004**	**4.6500e-003**	**1.2000e-004**	**4.7800e-003**	**1.2500e-003**	**1.1000e-004**	**1.3700e-003**	**0.0000**	**9.5112**	**9.5112**	**5.1000e-004**	**0.0000**	**9.5241**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.8500e-003	0.0000	4.8500e-003	7.3000e-004	0.0000	7.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7800e-003	0.1373	0.0985	1.7000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	15.4635	15.4635	4.6000e-003	0.0000	15.5786
Total	**4.7800e-003**	**0.1373**	**0.0985**	**1.7000e-004**	**4.8500e-003**	**3.5000e-003**	**8.3500e-003**	**7.3000e-004**	**3.5000e-003**	**4.2300e-003**	**0.0000**	**15.4635**	**15.4635**	**4.6000e-003**	**0.0000**	**15.5786**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	7.0000e-004	0.0242	4.8200e-003	7.0000e-005	1.5800e-003	1.0000e-004	1.6800e-003	4.3000e-004	9.0000e-005	5.3000e-004	0.0000	6.6572	6.6572	4.2000e-004	0.0000	6.6678
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3500e-003	1.0700e-003	0.0117	3.0000e-005	3.0700e-003	2.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.8540	2.8540	9.0000e-005	0.0000	2.8563
Total	**2.0500e-003**	**0.0253**	**0.0165**	**1.0000e-004**	**4.6500e-003**	**1.2000e-004**	**4.7800e-003**	**1.2500e-003**	**1.1000e-004**	**1.3700e-003**	**0.0000**	**9.5112**	**9.5112**	**5.1000e-004**	**0.0000**	**9.5241**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1525	1.5282	1.0453	2.5400e-003		0.0709	0.0709		0.0654	0.0654	0.0000	227.9491	227.9491	0.0714	0.0000	229.7331
Total	**0.1525**	**1.5282**	**1.0453**	**2.5400e-003**	**8.0000e-004**	**0.0709**	**0.0717**	**9.0000e-005**	**0.0654**	**0.0654**	**0.0000**	**227.9491**	**227.9491**	**0.0714**	**0.0000**	**229.7331**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0146	0.5077	0.1012	1.4300e-003	0.0332	2.0500e-003	0.0352	9.1100e-003	1.9600e-003	0.0111	0.0000	139.6856	139.6856	8.9100e-003	0.0000	139.9083
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5500e-003	7.5900e-003	0.0825	2.2000e-004	0.0217	1.7000e-004	0.0219	5.7600e-003	1.6000e-004	5.9200e-003	0.0000	20.1616	20.1616	6.3000e-004	0.0000	20.1774
Total	**0.0242**	**0.5153**	**0.1836**	**1.6500e-003**	**0.0549**	**2.2200e-003**	**0.0571**	**0.0149**	**2.1200e-003**	**0.0170**	**0.0000**	**159.8472**	**159.8472**	**9.5400e-003**	**0.0000**	**160.0857**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.1000e-004	0.0000	3.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0762	2.0819	1.4852	2.5400e-003		0.0589	0.0589		0.0589	0.0589	0.0000	227.9488	227.9488	0.0714	0.0000	229.7328
Total	**0.0762**	**2.0819**	**1.4852**	**2.5400e-003**	**3.1000e-004**	**0.0589**	**0.0592**	**3.0000e-005**	**0.0589**	**0.0589**	**0.0000**	**227.9488**	**227.9488**	**0.0714**	**0.0000**	**229.7328**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0146	0.5077	0.1012	1.4300e-003	0.0332	2.0500e-003	0.0352	9.1100e-003	1.9600e-003	0.0111	0.0000	139.6856	139.6856	8.9100e-003	0.0000	139.9083
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5500e-003	7.5900e-003	0.0825	2.2000e-004	0.0217	1.7000e-004	0.0219	5.7600e-003	1.6000e-004	5.9200e-003	0.0000	20.1616	20.1616	6.3000e-004	0.0000	20.1774
Total	**0.0242**	**0.5153**	**0.1836**	**1.6500e-003**	**0.0549**	**2.2200e-003**	**0.0571**	**0.0149**	**2.1200e-003**	**0.0170**	**0.0000**	**159.8472**	**159.8472**	**9.5400e-003**	**0.0000**	**160.0857**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0317	0.3754	0.1920	4.1000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	36.8155	36.8155	0.0113	0.0000	37.0981
Total	**0.0317**	**0.3754**	**0.1920**	**4.1000e-004**		**0.0164**	**0.0164**		**0.0151**	**0.0151**	**0.0000**	**36.8155**	**36.8155**	**0.0113**	**0.0000**	**37.0981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4800e-003	0.0862	0.0172	2.4000e-004	8.0000e-003	3.5000e-004	8.3400e-003	2.1300e-003	3.3000e-004	2.4600e-003	0.0000	23.7185	23.7185	1.5100e-003	0.0000	23.7563
Vendor	1.1000e-003	0.0327	8.1900e-003	7.0000e-005	1.7600e-003	2.1000e-004	1.9800e-003	5.1000e-004	2.0000e-004	7.1000e-004	0.0000	6.9320	6.9320	4.8000e-004	0.0000	6.9440
Worker	0.0101	8.0600e-003	0.0876	2.4000e-004	0.0230	1.8000e-004	0.0232	6.1200e-003	1.7000e-004	6.2900e-003	0.0000	21.4051	21.4051	6.7000e-004	0.0000	21.4219
Total	**0.0137**	**0.1269**	**0.1129**	**5.5000e-004**	**0.0328**	**7.4000e-004**	**0.0335**	**8.7600e-003**	**7.0000e-004**	**9.4600e-003**	**0.0000**	**52.0556**	**52.0556**	**2.6600e-003**	**0.0000**	**52.1221**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0124	0.3593	0.2406	4.1000e-004		9.5800e-003	9.5800e-003		9.5800e-003	9.5800e-003	0.0000	36.8155	36.8155	0.0113	0.0000	37.0980

Total	**0.0124**	**0.3593**	**0.2406**	**4.1000e-004**		**9.5800e-003**	**9.5800e-003**		**9.5800e-003**	**9.5800e-003**	**0.0000**	**36.8155**	**36.8155**	**0.0113**	**0.0000**	**37.0980**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4800e-003	0.0862	0.0172	2.4000e-004	8.0000e-003	3.5000e-004	8.3400e-003	2.1300e-003	3.3000e-004	2.4600e-003	0.0000	23.7185	23.7185	1.5100e-003	0.0000	23.7563
Vendor	1.1000e-003	0.0327	8.1900e-003	7.0000e-005	1.7600e-003	2.1000e-004	1.9800e-003	5.1000e-004	2.0000e-004	7.1000e-004	0.0000	6.9320	6.9320	4.8000e-004	0.0000	6.9440
Worker	0.0101	8.0600e-003	0.0876	2.4000e-004	0.0230	1.8000e-004	0.0232	6.1200e-003	1.7000e-004	6.2900e-003	0.0000	21.4051	21.4051	6.7000e-004	0.0000	21.4219
Total	**0.0137**	**0.1269**	**0.1129**	**5.5000e-004**	**0.0328**	**7.4000e-004**	**0.0335**	**8.7600e-003**	**7.0000e-004**	**9.4600e-003**	**0.0000**	**52.0556**	**52.0556**	**2.6600e-003**	**0.0000**	**52.1221**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0160	0.1891	0.1017	2.3000e-004		7.9800e-003	7.9800e-003		7.3700e-003	7.3700e-003	0.0000	20.0836	20.0836	6.2900e-003	0.0000	20.2409
Total	**0.0160**	**0.1891**	**0.1017**	**2.3000e-004**		**7.9800e-003**	**7.9800e-003**		**7.3700e-003**	**7.3700e-003**	**0.0000**	**20.0836**	**20.0836**	**6.2900e-003**	**0.0000**	**20.2409**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2800e-003	0.0447	9.3200e-003	1.3000e-004	7.3800e-003	1.6000e-004	7.5400e-003	1.9000e-003	1.5000e-004	2.0500e-003	0.0000	13.0733	13.0733	8.3000e-004	0.0000	13.0939
Vendor	5.2000e-004	0.0167	4.1200e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.8000e-004	8.0000e-005	3.6000e-004	0.0000	3.8369	3.8369	2.5000e-004	0.0000	3.8432
Worker	5.2200e-003	4.0000e-003	0.0443	1.3000e-004	0.0128	1.0000e-004	0.0129	3.4100e-003	9.0000e-005	3.5000e-003	0.0000	11.5557	11.5557	3.3000e-004	0.0000	11.5640
Total	**7.0200e-003**	**0.0653**	**0.0578**	**3.0000e-004**	**0.0212**	**3.4000e-004**	**0.0215**	**5.5900e-003**	**3.2000e-004**	**5.9100e-003**	**0.0000**	**28.4658**	**28.4658**	**1.4100e-003**	**0.0000**	**28.5011**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.9000e-003	0.2002	0.1341	2.3000e-004		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	20.0836	20.0836	6.2900e-003	0.0000	20.2409
Total	**6.9000e-003**	**0.2002**	**0.1341**	**2.3000e-004**		**5.3400e-003**	**5.3400e-003**		**5.3400e-003**	**5.3400e-003**	**0.0000**	**20.0836**	**20.0836**	**6.2900e-003**	**0.0000**	**20.2409**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	1.2800e-003	0.0447	9.3200e-003	1.3000e-004	7.3800e-003	1.6000e-004	7.5400e-003	1.9000e-003	1.5000e-004	2.0500e-003	0.0000	13.0733	13.0733	8.3000e-004	0.0000	13.0939
Vendor	5.2000e-004	0.0167	4.1200e-003	4.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.8000e-004	8.0000e-005	3.6000e-004	0.0000	3.8369	3.8369	2.5000e-004	0.0000	3.8432
Worker	5.2200e-003	4.0000e-003	0.0443	1.3000e-004	0.0128	1.0000e-004	0.0129	3.4100e-003	9.0000e-005	3.5000e-003	0.0000	11.5557	11.5557	3.3000e-004	0.0000	11.5640
Total	**7.0200e-003**	**0.0653**	**0.0578**	**3.0000e-004**	**0.0212**	**3.4000e-004**	**0.0215**	**5.5900e-003**	**3.2000e-004**	**5.9100e-003**	**0.0000**	**28.4658**	**28.4658**	**1.4100e-003**	**0.0000**	**28.5011**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8800e-003	0.0188	0.0188	3.0000e-005		1.2000e-003	1.2000e-003		1.1000e-003	1.1000e-003	0.0000	2.2650	2.2650	7.3000e-004	0.0000	2.2833
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8800e-003**	**0.0188**	**0.0188**	**3.0000e-005**		**1.2000e-003**	**1.2000e-003**		**1.1000e-003**	**1.1000e-003**	**0.0000**	**2.2650**	**2.2650**	**7.3000e-004**	**0.0000**	**2.2833**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0900e-003	1.6000e-003	0.0177	5.0000e-005	5.1300e-003	4.0000e-005	5.1700e-003	1.3600e-003	4.0000e-005	1.4000e-003	0.0000	4.6223	4.6223	1.3000e-004	0.0000	4.6256
Total	**2.0900e-003**	**1.6000e-003**	**0.0177**	**5.0000e-005**	**5.1300e-003**	**4.0000e-005**	**5.1700e-003**	**1.3600e-003**	**4.0000e-005**	**1.4000e-003**	**0.0000**	**4.6223**	**4.6223**	**1.3000e-004**	**0.0000**	**4.6256**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.2100e-003	0.0250	0.0195	3.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	2.2650	2.2650	7.3000e-004	0.0000	2.2833
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.2100e-003**	**0.0250**	**0.0195**	**3.0000e-005**		**1.0100e-003**	**1.0100e-003**		**1.0100e-003**	**1.0100e-003**	**0.0000**	**2.2650**	**2.2650**	**7.3000e-004**	**0.0000**	**2.2833**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0900e-003	1.6000e-003	0.0177	5.0000e-005	5.1300e-003	4.0000e-005	5.1700e-003	1.3600e-003	4.0000e-005	1.4000e-003	0.0000	4.6223	4.6223	1.3000e-004	0.0000	4.6256
Total	**2.0900e-003**	**1.6000e-003**	**0.0177**	**5.0000e-005**	**5.1300e-003**	**4.0000e-005**	**5.1700e-003**	**1.3600e-003**	**4.0000e-005**	**1.4000e-003**	**0.0000**	**4.6223**	**4.6223**	**1.3000e-004**	**0.0000**	**4.6256**

Culver Boulevard Realignment

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	4.73	Acre	4.73	206,038.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	11			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Schedule per Planning

Off-road Equipment -

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Trips and VMT - Values per Engineering

Demolition -

Grading - Material export per Engineering

Architectural Coating - Area of asphalt to be painted estimated at 6180 sf

Construction Off-road Equipment Mitigation - Average Tier 2

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	12,362.00	6,180.00
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	55
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	55
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	18.00	5.00
tblConstructionPhase	NumDays	230.00	195.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	8.00	45.00
tblConstructionPhase	NumDays	18.00	105.00
tblGrading	AcresOfGrading	0.00	4.00
tblGrading	MaterialExported	0.00	5,125.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	376.00
tblTripsAndVMT	WorkerTripNumber	18.00	22.00
tblTripsAndVMT	WorkerTripNumber	25.00	30.00
tblTripsAndVMT	WorkerTripNumber	87.00	6.00
tblTripsAndVMT	WorkerTripNumber	17.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					

2019	3.7350	39.3617	20.2234	0.0567	2.3420	1.7487	4.0908	0.4120	1.6277	2.0397	0.0000	5,757.8558	5,757.8558	1.1942	0.0000	5,787.7101
2020	6.2365	6.5807	4.4788	0.0165	0.4516	0.1818	0.6243	0.1252	0.1685	0.2936	0.0000	1,710.7491	1,710.7491	0.2806	0.0000	1,713.8226
2021	0.1925	4.4242	1.6749	0.0123	1.6234	0.0423	1.6657	0.4106	0.0392	0.4498	0.0000	1,303.2374	1,303.2374	0.0950	0.0000	1,305.6113
Maximum	**6.2365**	**39.3617**	**20.2234**	**0.0567**	**2.3420**	**1.7487**	**4.0908**	**0.4120**	**1.6277**	**2.0397**	**0.0000**	**5,757.8558**	**5,757.8558**	**1.1942**	**0.0000**	**5,787.7101**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.5360	35.5992	24.5788	0.0567	1.3211	0.9526	2.1578	0.2574	0.9513	1.1844	0.0000	5,757.8558	5,757.8558	1.1942	0.0000	5,787.7101
2020	6.0814	7.3794	6.2600	0.0165	0.4516	0.1851	0.5961	0.1252	0.1849	0.2739	0.0000	1,710.7491	1,710.7491	0.2806	0.0000	1,713.8226
2021	0.1736	4.6142	1.6814	0.0123	1.6234	0.0371	1.6605	0.4106	0.0366	0.4472	0.0000	1,303.2374	1,303.2374	0.0950	0.0000	1,305.6113
Maximum	**6.0814**	**35.5992**	**24.5788**	**0.0567**	**1.6234**	**0.9526**	**2.1578**	**0.4106**	**0.9513**	**1.1844**	**0.0000**	**5,757.8558**	**5,757.8558**	**1.1942**	**0.0000**	**5,787.7101**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**23.35**	**5.51**	**-23.29**	**0.00**	**23.11**	**40.45**	**30.82**	**16.31**	**36.10**	**31.54**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2019	9/13/2019	5	55	
2	Grading	Grading	9/14/2019	11/15/2019	5	45	
3	Paving	Paving	11/16/2019	4/10/2020	5	105	

4	Building Construction	Building Construction	4/11/2020	1/8/2021	5	195	
5	Architectural Coating	Architectural Coating	4/11/2020	4/17/2020	5	5	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Off-Highway Trucks	3	2.00	402	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Air Compressors	1	1.00	78	0.48
Grading	Concrete/Industrial Saws	1	1.00	81	0.73
Grading	Cranes	1	1.00	231	0.29
Grading	Excavators	1	0.00	158	0.38
Grading	Graders	1	0.00	187	0.41
Grading	Off-Highway Trucks	4	3.00	402	0.38
Grading	Rollers	1	1.00	80	0.38
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Trenchers	1	1.00	78	0.50
Building Construction	Cranes	1	0.00	231	0.29
Building Construction	Forklifts	3	0.00	89	0.20
Building Construction	Generator Sets	1	0.00	84	0.74
Building Construction	Sweepers/Scrubbers	1	1.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	1	1.00	97	0.37
Building Construction	Welders	1	0.00	46	0.45
Paving	Cement and Mortar Mixers	1	1.00	9	0.56
Paving	Off-Highway Trucks	2	2.00	402	0.38
Paving	Pavers	1	2.00	130	0.42
Paving	Paving Equipment	2	0.00	132	0.36
Paving	Rollers	1	1.00	80	0.38

Paving	Skid Steer Loaders	2	1.00	65	0.37
Paving	Tractors/Loaders/Backhoes	1	0.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	22.00	0.00	472.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	641.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	6.00	34.00	376.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Paving	10	30.00	0.00	0.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8563	0.0000	1.8563	0.2811	0.0000	0.2811			0.0000			0.0000
Off-Road	3.5243	35.8114	18.5312	0.0384		1.7323	1.7323		1.6121	1.6121		3,775.4469	3,775.4469	1.0487		3,801.6647
Total	**3.5243**	**35.8114**	**18.5312**	**0.0384**	**1.8563**	**1.7323**	**3.5886**	**0.2811**	**1.6121**	**1.8932**		**3,775.4469**	**3,775.4469**	**1.0487**		**3,801.6647**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1030	3.4753	0.7036	0.0102	0.2398	0.0145	0.2543	0.0657	0.0139	0.0796		1,100.7753	1,100.7753	0.0689		1,102.4971
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1077	0.0750	0.9885	2.6100e-003	0.2459	1.9100e-003	0.2478	0.0652	1.7600e-003	0.0670		259.8176	259.8176	8.1300e-003		260.0207
Total	**0.2107**	**3.5503**	**1.6922**	**0.0128**	**0.4857**	**0.0164**	**0.5022**	**0.1309**	**0.0156**	**0.1466**		**1,360.5929**	**1,360.5929**	**0.0770**		**1,362.5178**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8353	0.0000	0.8353	0.1265	0.0000	0.1265			0.0000			0.0000
Off-Road	1.1018	31.4907	22.0916	0.0384		0.8203	0.8203		0.8203	0.8203	0.0000	3,775.4469	3,775.4469	1.0487		3,801.6647
Total	**1.1018**	**31.4907**	**22.0916**	**0.0384**	**0.8353**	**0.8203**	**1.6556**	**0.1265**	**0.8203**	**0.9468**	**0.0000**	**3,775.4469**	**3,775.4469**	**1.0487**		**3,801.6647**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.1030	3.4753	0.7036	0.0102	0.2398	0.0145	0.2543	0.0657	0.0139	0.0796		1,100.7753	1,100.7753	0.0689		1,102.4971
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1077	0.0750	0.9885	2.6100e-003	0.2459	1.9100e-003	0.2478	0.0652	1.7600e-003	0.0670		259.8176	259.8176	8.1300e-003		260.0207
Total	**0.2107**	**3.5503**	**1.6922**	**0.0128**	**0.4857**	**0.0164**	**0.5022**	**0.1309**	**0.0156**	**0.1466**		**1,360.5929**	**1,360.5929**	**0.0770**		**1,362.5178**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1072	0.0000	0.1072	0.0121	0.0000	0.0121			0.0000			0.0000
Off-Road	2.2439	22.4090	16.8305	0.0350		1.1537	1.1537		1.0655	1.0655		3,458.3494	3,458.3494	1.0651		3,484.9765
Total	**2.2439**	**22.4090**	**16.8305**	**0.0350**	**0.1072**	**1.1537**	**1.2609**	**0.0121**	**1.0655**	**1.0776**		**3,458.3494**	**3,458.3494**	**1.0651**		**3,484.9765**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1709	5.7684	1.1679	0.0169	0.3981	0.0241	0.4222	0.1091	0.0230	0.1321		1,827.1108	1,827.1108	0.1143		1,829.9687
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1959	0.1363	1.7973	4.7400e-003	0.4471	3.4800e-003	0.4506	0.1186	3.2100e-003	0.1218		472.3956	472.3956	0.0148		472.7650

Total	**0.3668**	**5.9047**	**2.9652**	**0.0217**	**0.8452**	**0.0276**	**0.8728**	**0.2277**	**0.0263**	**0.2539**		**2,299.5064**	**2,299.5064**	**0.1291**		**2,302.7336**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0482	0.0000	0.0482	5.4600e-003	0.0000	5.4600e-003			0.0000			0.0000
Off-Road	1.1692	29.6944	21.6136	0.0350		0.9250	0.9250		0.9250	0.9250	0.0000	3,458.3494	3,458.3494	1.0651		3,484.9765
Total	**1.1692**	**29.6944**	**21.6136**	**0.0350**	**0.0482**	**0.9250**	**0.9732**	**5.4600e-003**	**0.9250**	**0.9305**	**0.0000**	**3,458.3494**	**3,458.3494**	**1.0651**		**3,484.9765**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1709	5.7684	1.1679	0.0169	0.3981	0.0241	0.4222	0.1091	0.0230	0.1321		1,827.1108	1,827.1108	0.1143		1,829.9687
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1959	0.1363	1.7973	4.7400e-003	0.4471	3.4800e-003	0.4506	0.1186	3.2100e-003	0.1218		472.3956	472.3956	0.0148		472.7650
Total	**0.3668**	**5.9047**	**2.9652**	**0.0217**	**0.8452**	**0.0276**	**0.8728**	**0.2277**	**0.0263**	**0.2539**		**2,299.5064**	**2,299.5064**	**0.1291**		**2,302.7336**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4837	4.9837	3.3483	8.7200e-003		0.2021	0.2021		0.1861	0.1861		860.1685	860.1685	0.2708		866.9386
Paving	0.1180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6017**	**4.9837**	**3.3483**	**8.7200e-003**		**0.2021**	**0.2021**		**0.1861**	**0.1861**		**860.1685**	**860.1685**	**0.2708**		**866.9386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1469	0.1022	1.3480	3.5600e-003	0.3353	2.6100e-003	0.3379	0.0889	2.4000e-003	0.0913		354.2967	354.2967	0.0111		354.5737
Total	**0.1469**	**0.1022**	**1.3480**	**3.5600e-003**	**0.3353**	**2.6100e-003**	**0.3379**	**0.0889**	**2.4000e-003**	**0.0913**		**354.2967**	**354.2967**	**0.0111**		**354.5737**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.2472	6.9315	5.0336	8.7200e-003		0.1826	0.1826		0.1826	0.1826	0.0000	860.1685	860.1685	0.2708		866.9386
Paving	0.1180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3652**	**6.9315**	**5.0336**	**8.7200e-003**		**0.1826**	**0.1826**		**0.1826**	**0.1826**	**0.0000**	**860.1685**	**860.1685**	**0.2708**		**866.9386**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1469	0.1022	1.3480	3.5600e-003	0.3353	2.6100e-003	0.3379	0.0889	2.4000e-003	0.0913		354.2967	354.2967	0.0111		354.5737
Total	**0.1469**	**0.1022**	**1.3480**	**3.5600e-003**	**0.3353**	**2.6100e-003**	**0.3379**	**0.0889**	**2.4000e-003**	**0.0913**		**354.2967**	**354.2967**	**0.0111**		**354.5737**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4506	4.4357	3.2524	8.7100e-003		0.1792	0.1792		0.1650	0.1650		841.2441	841.2441	0.2707		848.0113
Paving	0.1180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5686**	**4.4357**	**3.2524**	**8.7100e-003**		**0.1792**	**0.1792**		**0.1650**	**0.1650**		**841.2441**	**841.2441**	**0.2707**		**848.0113**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1357	0.0912	1.2265	3.4500e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		343.3252	343.3252	9.8700e-003		343.5720
Total	**0.1357**	**0.0912**	**1.2265**	**3.4500e-003**	**0.3353**	**2.5400e-003**	**0.3379**	**0.0889**	**2.3400e-003**	**0.0913**		**343.3252**	**343.3252**	**9.8700e-003**		**343.5720**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2472	6.9315	5.0336	8.7100e-003		0.1826	0.1826		0.1826	0.1826	0.0000	841.2441	841.2441	0.2707		848.0113
Paving	0.1180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3652**	**6.9315**	**5.0336**	**8.7100e-003**		**0.1826**	**0.1826**		**0.1826**	**0.1826**	**0.0000**	**841.2441**	**841.2441**	**0.2707**		**848.0113**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1357	0.0912	1.2265	3.4500e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		343.3252	343.3252	9.8700e-003		343.5720
Total	**0.1357**	**0.0912**	**1.2265**	**3.4500e-003**	**0.3353**	**2.5400e-003**	**0.3379**	**0.0889**	**2.3400e-003**	**0.0913**		**343.3252**	**343.3252**	**9.8700e-003**		**343.5720**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0599	0.5541	0.5334	7.1000e-004		0.0400	0.0400		0.0368	0.0368		68.3681	68.3681	0.0221		68.9209
Total	**0.0599**	**0.5541**	**0.5334**	**7.1000e-004**		**0.0400**	**0.0400**		**0.0368**	**0.0368**		**68.3681**	**68.3681**	**0.0221**		**68.9209**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0215	0.7264	0.1542	2.2600e-003	0.0552	2.6600e-003	0.0578	0.0151	2.5400e-003	0.0176		244.7014	244.7014	0.0152		245.0811
Vendor	0.1117	3.5678	0.8496	8.7500e-003	0.2176	0.0177	0.2353	0.0627	0.0169	0.0796		933.1248	933.1248	0.0586		934.5894
Worker	0.0272	0.0183	0.2453	6.9000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		68.6651	68.6651	1.9700e-003		68.7144

Total	**0.1603**	**4.3124**	**1.2491**	**0.0117**	**0.3399**	**0.0209**	**0.3607**	**0.0955**	**0.0199**	**0.1154**		**1,246.4912**	**1,246.4912**	**0.0758**		**1,248.3849**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0331	0.6841	0.5329	7.1000e-004		0.0277	0.0277		0.0277	0.0277	0.0000	68.3681	68.3681	0.0221		68.9209
Total	**0.0331**	**0.6841**	**0.5329**	**7.1000e-004**		**0.0277**	**0.0277**		**0.0277**	**0.0277**	**0.0000**	**68.3681**	**68.3681**	**0.0221**		**68.9209**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0215	0.7264	0.1542	2.2600e-003	0.0552	2.6600e-003	0.0578	0.0151	2.5400e-003	0.0176		244.7014	244.7014	0.0152		245.0811
Vendor	0.1117	3.5678	0.8496	8.7500e-003	0.2176	0.0177	0.2353	0.0627	0.0169	0.0796		933.1248	933.1248	0.0586		934.5894
Worker	0.0272	0.0183	0.2453	6.9000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		68.6651	68.6651	1.9700e-003		68.7144
Total	**0.1603**	**4.3124**	**1.2491**	**0.0117**	**0.3399**	**0.0209**	**0.3607**	**0.0955**	**0.0199**	**0.1154**		**1,246.4912**	**1,246.4912**	**0.0758**		**1,248.3849**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0520	0.4941	0.5264	7.1000e-004		0.0329	0.0329		0.0303	0.0303		68.3846	68.3846	0.0221		68.9375
Total	**0.0520**	**0.4941**	**0.5264**	**7.1000e-004**		**0.0329**	**0.0329**		**0.0303**	**0.0303**		**68.3846**	**68.3846**	**0.0221**		**68.9375**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0205	0.6708	0.1530	2.2400e-003	1.3387	2.3800e-003	1.3411	0.3301	2.2800e-003	0.3324		242.1178	242.1178	0.0150		242.4933
Vendor	0.0946	3.2428	0.7695	8.6800e-003	0.2176	6.5300e-003	0.2241	0.0627	6.2500e-003	0.0689		926.2908	926.2908	0.0560		927.6916
Worker	0.0253	0.0164	0.2260	6.7000e-004	0.0671	4.9000e-004	0.0676	0.0178	4.5000e-004	0.0182		66.4442	66.4442	1.7900e-003		66.4889
Total	**0.1405**	**3.9300**	**1.1485**	**0.0116**	**1.6234**	**9.4000e-003**	**1.6328**	**0.4106**	**8.9800e-003**	**0.4195**		**1,234.8528**	**1,234.8528**	**0.0728**		**1,236.6738**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.0331	0.6841	0.5329	7.1000e-004		0.0277	0.0277		0.0277	0.0277	0.0000	68.3846	68.3846	0.0221		68.9375
Total	**0.0331**	**0.6841**	**0.5329**	**7.1000e-004**		**0.0277**	**0.0277**		**0.0277**	**0.0277**	**0.0000**	**68.3846**	**68.3846**	**0.0221**		**68.9375**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0205	0.6708	0.1530	2.2400e-003	1.3387	2.3800e-003	1.3411	0.3301	2.2800e-003	0.3324		242.1178	242.1178	0.0150		242.4933
Vendor	0.0946	3.2428	0.7695	8.6800e-003	0.2176	6.5300e-003	0.2241	0.0627	6.2500e-003	0.0689		926.2908	926.2908	0.0560		927.6916
Worker	0.0253	0.0164	0.2260	6.7000e-004	0.0671	4.9000e-004	0.0676	0.0178	4.5000e-004	0.0182		66.4442	66.4442	1.7900e-003		66.4889
Total	**0.1405**	**3.9300**	**1.1485**	**0.0116**	**1.6234**	**9.4000e-003**	**1.6328**	**0.4106**	**8.9800e-003**	**0.4195**		**1,234.8528**	**1,234.8528**	**0.0728**		**1,236.6738**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7289					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**5.9710**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0452	0.0304	0.4088	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		114.4418	114.4418	3.2900e-003		114.5240
Total	**0.0452**	**0.0304**	**0.4088**	**1.1500e-003**	**0.1118**	**8.5000e-004**	**0.1126**	**0.0296**	**7.8000e-004**	**0.0304**		**114.4418**	**114.4418**	**3.2900e-003**		**114.5240**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7289					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**5.8428**	**2.3524**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0452	0.0304	0.4088	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		114.4418	114.4418	3.2900e-003		114.5240
Total	**0.0452**	**0.0304**	**0.4088**	**1.1500e-003**	**0.1118**	**8.5000e-004**	**0.1126**	**0.0296**	**7.8000e-004**	**0.0304**		**114.4418**	**114.4418**	**3.2900e-003**		**114.5240**

Culver Boulevard Realignment

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	4.73	Acre	4.73	206,038.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	11			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Schedule per Planning

Off-road Equipment -

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Trips and VMT - Values per Engineering

Demolition -

Grading - Material export per Engineering

Architectural Coating - Area of asphalt to be painted estimated at 6180 sf

Construction Off-road Equipment Mitigation - Average Tier 2

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	12,362.00	6,180.00
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	55
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	55
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	18.00	5.00
tblConstructionPhase	NumDays	230.00	195.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	8.00	45.00
tblConstructionPhase	NumDays	18.00	105.00
tblGrading	AcresOfGrading	0.00	4.00
tblGrading	MaterialExported	0.00	5,125.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	376.00
tblTripsAndVMT	WorkerTripNumber	18.00	22.00
tblTripsAndVMT	WorkerTripNumber	25.00	30.00
tblTripsAndVMT	WorkerTripNumber	87.00	6.00
tblTripsAndVMT	WorkerTripNumber	17.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					

2019	3.7467	39.4437	20.1644	0.0561	2.3420	1.7489	4.0909	0.4120	1.6279	2.0399	0.0000	5,705.4328	5,705.4328	1.1969	0.0000	5,735.3556
2020	6.2488	6.5969	4.3566	0.0161	0.4516	0.1818	0.6246	0.1252	0.1687	0.2939	0.0000	1,668.9441	1,668.9441	0.2799	0.0000	1,672.1289
2021	0.2002	4.4289	1.7509	0.0120	1.6234	0.0425	1.6659	0.4106	0.0395	0.4500	0.0000	1,269.1544	1,269.1544	0.0994	0.0000	1,271.6403
Maximum	**6.2488**	**39.4437**	**20.1644**	**0.0561**	**2.3420**	**1.7489**	**4.0909**	**0.4120**	**1.6279**	**2.0399**	**0.0000**	**5,705.4328**	**5,705.4328**	**1.1969**	**0.0000**	**5,735.3556**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.5568	35.7365	24.4657	0.0561	1.3211	0.9529	2.1579	0.2574	0.9516	1.1847	0.0000	5,705.4328	5,705.4328	1.1969	0.0000	5,735.3556
2020	6.0937	7.3955	6.1378	0.0161	0.4516	0.1851	0.5964	0.1252	0.1849	0.2739	0.0000	1,668.9441	1,668.9441	0.2799	0.0000	1,672.1289
2021	0.1813	4.6190	1.7574	0.0120	1.6234	0.0373	1.6607	0.4106	0.0369	0.4474	0.0000	1,269.1544	1,269.1544	0.0994	0.0000	1,271.6403
Maximum	**6.0937**	**35.7365**	**24.4657**	**0.0561**	**1.6234**	**0.9529**	**2.1579**	**0.4106**	**0.9516**	**1.1847**	**0.0000**	**5,705.4328**	**5,705.4328**	**1.1969**	**0.0000**	**5,735.3556**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**23.18**	**5.39**	**-23.18**	**0.00**	**23.11**	**40.44**	**30.82**	**16.31**	**36.10**	**31.53**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2019	9/13/2019	5	55	
2	Grading	Grading	9/14/2019	11/15/2019	5	45	

3	Paving	Paving	11/16/2019	4/10/2020	5	105	
4	Building Construction	Building Construction	4/11/2020	1/8/2021	5	195	
5	Architectural Coating	Architectural Coating	4/11/2020	4/17/2020	5	5	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Off-Highway Trucks	3	2.00	402	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Air Compressors	1	1.00	78	0.48
Grading	Concrete/Industrial Saws	1	1.00	81	0.73
Grading	Cranes	1	1.00	231	0.29
Grading	Excavators	1	0.00	158	0.38
Grading	Graders	1	0.00	187	0.41
Grading	Off-Highway Trucks	4	3.00	402	0.38
Grading	Rollers	1	1.00	80	0.38
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Trenchers	1	1.00	78	0.50
Building Construction	Cranes	1	0.00	231	0.29
Building Construction	Forklifts	3	0.00	89	0.20
Building Construction	Generator Sets	1	0.00	84	0.74
Building Construction	Sweepers/Scrubbers	1	1.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	1	1.00	97	0.37
Building Construction	Welders	1	0.00	46	0.45
Paving	Cement and Mortar Mixers	1	1.00	9	0.56
Paving	Off-Highway Trucks	2	2.00	402	0.38
Paving	Pavers	1	2.00	130	0.42
Paving	Paving Equipment	2	0.00	132	0.36

Paving	Rollers	1	1.00	80	0.38
Paving	Skid Steer Loaders	2	1.00	65	0.37
Paving	Tractors/Loaders/Backhoes	1	0.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	22.00	0.00	472.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	641.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	6.00	34.00	376.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Paving	10	30.00	0.00	0.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8563	0.0000	1.8563	0.2811	0.0000	0.2811			0.0000			0.0000
Off-Road	3.5243	35.8114	18.5312	0.0384		1.7323	1.7323		1.6121	1.6121		3,775.4469	3,775.4469	1.0487		3,801.6647
Total	**3.5243**	**35.8114**	**18.5312**	**0.0384**	**1.8563**	**1.7323**	**3.5886**	**0.2811**	**1.6121**	**1.8932**		**3,775.4469**	**3,775.4469**	**1.0487**		**3,801.6647**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1050	3.5502	0.7414	0.0101	0.2398	0.0147	0.2545	0.0657	0.0141	0.0798		1,087.5874	1,087.5874	0.0711		1,089.3651
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1173	0.0821	0.8919	2.4400e-003	0.2459	1.9100e-003	0.2478	0.0652	1.7600e-003	0.0670		243.0243	243.0243	7.5900e-003		243.2141
Total	**0.2223**	**3.6323**	**1.6332**	**0.0125**	**0.4857**	**0.0166**	**0.5023**	**0.1309**	**0.0158**	**0.1467**		**1,330.6117**	**1,330.6117**	**0.0787**		**1,332.5792**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8353	0.0000	0.8353	0.1265	0.0000	0.1265			0.0000			0.0000
Off-Road	1.1018	31.4907	22.0916	0.0384		0.8203	0.8203		0.8203	0.8203	0.0000	3,775.4469	3,775.4469	1.0487		3,801.6647
Total	**1.1018**	**31.4907**	**22.0916**	**0.0384**	**0.8353**	**0.8203**	**1.6556**	**0.1265**	**0.8203**	**0.9468**	**0.0000**	**3,775.4469**	**3,775.4469**	**1.0487**		**3,801.6647**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Hauling	0.1050	3.5502	0.7414	0.0101	0.2398	0.0147	0.2545	0.0657	0.0141	0.0798		1,087.5874	1,087.5874	0.0711		1,089.3651
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1173	0.0821	0.8919	2.4400e-003	0.2459	1.9100e-003	0.2478	0.0652	1.7600e-003	0.0670		243.0243	243.0243	7.5900e-003		243.2141
Total	**0.2223**	**3.6323**	**1.6332**	**0.0125**	**0.4857**	**0.0166**	**0.5023**	**0.1309**	**0.0158**	**0.1467**		**1,330.6117**	**1,330.6117**	**0.0787**		**1,332.5792**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1072	0.0000	0.1072	0.0121	0.0000	0.0121			0.0000			0.0000
Off-Road	2.2439	22.4090	16.8305	0.0350		1.1537	1.1537		1.0655	1.0655		3,458.3494	3,458.3494	1.0651		3,484.9765
Total	**2.2439**	**22.4090**	**16.8305**	**0.0350**	**0.1072**	**1.1537**	**1.2609**	**0.0121**	**1.0655**	**1.0776**		**3,458.3494**	**3,458.3494**	**1.0651**		**3,484.9765**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1743	5.8927	1.2306	0.0167	0.3981	0.0244	0.4225	0.1091	0.0233	0.1324		1,805.2210	1,805.2210	0.1180		1,808.1717
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2133	0.1493	1.6215	4.4400e-003	0.4471	3.4800e-003	0.4506	0.1186	3.2100e-003	0.1218		441.8623	441.8623	0.0138		442.2074

Total	**0.3876**	**6.0420**	**2.8521**	**0.0212**	**0.8452**	**0.0279**	**0.8730**	**0.2277**	**0.0265**	**0.2542**		**2,247.0833**	**2,247.0833**	**0.1318**		**2,250.3791**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0482	0.0000	0.0482	5.4600e-003	0.0000	5.4600e-003			0.0000			0.0000
Off-Road	1.1692	29.6944	21.6136	0.0350		0.9250	0.9250		0.9250	0.9250	0.0000	3,458.3494	3,458.3494	1.0651		3,484.9765
Total	**1.1692**	**29.6944**	**21.6136**	**0.0350**	**0.0482**	**0.9250**	**0.9732**	**5.4600e-003**	**0.9250**	**0.9305**	**0.0000**	**3,458.3494**	**3,458.3494**	**1.0651**		**3,484.9765**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1743	5.8927	1.2306	0.0167	0.3981	0.0244	0.4225	0.1091	0.0233	0.1324		1,805.2210	1,805.2210	0.1180		1,808.1717
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2133	0.1493	1.6215	4.4400e-003	0.4471	3.4800e-003	0.4506	0.1186	3.2100e-003	0.1218		441.8623	441.8623	0.0138		442.2074
Total	**0.3876**	**6.0420**	**2.8521**	**0.0212**	**0.8452**	**0.0279**	**0.8730**	**0.2277**	**0.0265**	**0.2542**		**2,247.0833**	**2,247.0833**	**0.1318**		**2,250.3791**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4837	4.9837	3.3483	8.7200e-003		0.2021	0.2021		0.1861	0.1861		860.1685	860.1685	0.2708		866.9386
Paving	0.1180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6017**	**4.9837**	**3.3483**	**8.7200e-003**		**0.2021**	**0.2021**		**0.1861**	**0.1861**		**860.1685**	**860.1685**	**0.2708**		**866.9386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1600	0.1120	1.2162	3.3300e-003	0.3353	2.6100e-003	0.3379	0.0889	2.4000e-003	0.0913		331.3967	331.3967	0.0104		331.6556
Total	**0.1600**	**0.1120**	**1.2162**	**3.3300e-003**	**0.3353**	**2.6100e-003**	**0.3379**	**0.0889**	**2.4000e-003**	**0.0913**		**331.3967**	**331.3967**	**0.0104**		**331.6556**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.2472	6.9315	5.0336	8.7200e-003		0.1826	0.1826		0.1826	0.1826	0.0000	860.1685	860.1685	0.2708		866.9386
Paving	0.1180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3652**	**6.9315**	**5.0336**	**8.7200e-003**		**0.1826**	**0.1826**		**0.1826**	**0.1826**	**0.0000**	**860.1685**	**860.1685**	**0.2708**		**866.9386**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1600	0.1120	1.2162	3.3300e-003	0.3353	2.6100e-003	0.3379	0.0889	2.4000e-003	0.0913		331.3967	331.3967	0.0104		331.6556
Total	**0.1600**	**0.1120**	**1.2162**	**3.3300e-003**	**0.3353**	**2.6100e-003**	**0.3379**	**0.0889**	**2.4000e-003**	**0.0913**		**331.3967**	**331.3967**	**0.0104**		**331.6556**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4506	4.4357	3.2524	8.7100e-003		0.1792	0.1792		0.1650	0.1650		841.2441	841.2441	0.2707		848.0113
Paving	0.1180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5686**	**4.4357**	**3.2524**	**8.7100e-003**		**0.1792**	**0.1792**		**0.1650**	**0.1650**		**841.2441**	**841.2441**	**0.2707**		**848.0113**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1480	0.0999	1.1043	3.2200e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		321.1095	321.1095	9.2100e-003		321.3397
Total	**0.1480**	**0.0999**	**1.1043**	**3.2200e-003**	**0.3353**	**2.5400e-003**	**0.3379**	**0.0889**	**2.3400e-003**	**0.0913**		**321.1095**	**321.1095**	**9.2100e-003**		**321.3397**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2472	6.9315	5.0336	8.7100e-003		0.1826	0.1826		0.1826	0.1826	0.0000	841.2441	841.2441	0.2707		848.0113
Paving	0.1180					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3652**	**6.9315**	**5.0336**	**8.7100e-003**		**0.1826**	**0.1826**		**0.1826**	**0.1826**	**0.0000**	**841.2441**	**841.2441**	**0.2707**		**848.0113**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1480	0.0999	1.1043	3.2200e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		321.1095	321.1095	9.2100e-003		321.3397
Total	**0.1480**	**0.0999**	**1.1043**	**3.2200e-003**	**0.3353**	**2.5400e-003**	**0.3379**	**0.0889**	**2.3400e-003**	**0.0913**		**321.1095**	**321.1095**	**9.2100e-003**		**321.3397**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0599	0.5541	0.5334	7.1000e-004		0.0400	0.0400		0.0368	0.0368		68.3681	68.3681	0.0221		68.9209
Total	**0.0599**	**0.5541**	**0.5334**	**7.1000e-004**		**0.0400**	**0.0400**		**0.0368**	**0.0368**		**68.3681**	**68.3681**	**0.0221**		**68.9209**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0219	0.7416	0.1619	2.2400e-003	0.0552	2.6800e-003	0.0579	0.0151	2.5700e-003	0.0177		241.7260	241.7260	0.0157		242.1174
Vendor	0.1170	3.5641	0.9472	8.5000e-003	0.2176	0.0179	0.2356	0.0627	0.0172	0.0798		906.1435	906.1435	0.0629		907.7166
Worker	0.0296	0.0200	0.2209	6.4000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		64.2219	64.2219	1.8400e-003		64.2679

Total	**0.1684**	**4.3257**	**1.3299**	**0.0114**	**0.3399**	**0.0211**	**0.3610**	**0.0955**	**0.0202**	**0.1157**		**1,212.0914**	**1,212.0914**	**0.0804**		**1,214.1019**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0331	0.6841	0.5329	7.1000e-004		0.0277	0.0277		0.0277	0.0277	0.0000	68.3681	68.3681	0.0221		68.9209
Total	**0.0331**	**0.6841**	**0.5329**	**7.1000e-004**		**0.0277**	**0.0277**		**0.0277**	**0.0277**	**0.0000**	**68.3681**	**68.3681**	**0.0221**		**68.9209**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0219	0.7416	0.1619	2.2400e-003	0.0552	2.6800e-003	0.0579	0.0151	2.5700e-003	0.0177		241.7260	241.7260	0.0157		242.1174
Vendor	0.1170	3.5641	0.9472	8.5000e-003	0.2176	0.0179	0.2356	0.0627	0.0172	0.0798		906.1435	906.1435	0.0629		907.7166
Worker	0.0296	0.0200	0.2209	6.4000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		64.2219	64.2219	1.8400e-003		64.2679
Total	**0.1684**	**4.3257**	**1.3299**	**0.0114**	**0.3399**	**0.0211**	**0.3610**	**0.0955**	**0.0202**	**0.1157**		**1,212.0914**	**1,212.0914**	**0.0804**		**1,214.1019**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0520	0.4941	0.5264	7.1000e-004		0.0329	0.0329		0.0303	0.0303		68.3846	68.3846	0.0221		68.9375
Total	**0.0520**	**0.4941**	**0.5264**	**7.1000e-004**		**0.0329**	**0.0329**		**0.0303**	**0.0303**		**68.3846**	**68.3846**	**0.0221**		**68.9375**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0209	0.6844	0.1602	2.2100e-003	1.3387	2.4000e-003	1.3411	0.3301	2.3000e-003	0.3324		239.1591	239.1591	0.0155		239.5459
Vendor	0.0996	3.2325	0.8611	8.4300e-003	0.2176	6.7400e-003	0.2243	0.0627	6.4400e-003	0.0691		899.4707	899.4707	0.0602		900.9752
Worker	0.0277	0.0180	0.2031	6.2000e-004	0.0671	4.9000e-004	0.0676	0.0178	4.5000e-004	0.0182		62.1401	62.1401	1.6700e-003		62.1817
Total	**0.1482**	**3.9348**	**1.2245**	**0.0113**	**1.6234**	**9.6300e-003**	**1.6330**	**0.4106**	**9.1900e-003**	**0.4198**		**1,200.7699**	**1,200.7699**	**0.0773**		**1,202.7028**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.0331	0.6841	0.5329	7.1000e-004		0.0277	0.0277		0.0277	0.0277	0.0000	68.3846	68.3846	0.0221		68.9375
Total	**0.0331**	**0.6841**	**0.5329**	**7.1000e-004**		**0.0277**	**0.0277**		**0.0277**	**0.0277**	**0.0000**	**68.3846**	**68.3846**	**0.0221**		**68.9375**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0209	0.6844	0.1602	2.2100e-003	1.3387	2.4000e-003	1.3411	0.3301	2.3000e-003	0.3324		239.1591	239.1591	0.0155		239.5459
Vendor	0.0996	3.2325	0.8611	8.4300e-003	0.2176	6.7400e-003	0.2243	0.0627	6.4400e-003	0.0691		899.4707	899.4707	0.0602		900.9752
Worker	0.0277	0.0180	0.2031	6.2000e-004	0.0671	4.9000e-004	0.0676	0.0178	4.5000e-004	0.0182		62.1401	62.1401	1.6700e-003		62.1817
Total	**0.1482**	**3.9348**	**1.2245**	**0.0113**	**1.6234**	**9.6300e-003**	**1.6330**	**0.4106**	**9.1900e-003**	**0.4198**		**1,200.7699**	**1,200.7699**	**0.0773**		**1,202.7028**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7289					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**5.9710**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0494	0.0333	0.3681	1.0700e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		107.0365	107.0365	3.0700e-003		107.1132
Total	**0.0494**	**0.0333**	**0.3681**	**1.0700e-003**	**0.1118**	**8.5000e-004**	**0.1126**	**0.0296**	**7.8000e-004**	**0.0304**		**107.0365**	**107.0365**	**3.0700e-003**		**107.1132**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7289					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**5.8428**	**2.3524**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0494	0.0333	0.3681	1.0700e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		107.0365	107.0365	3.0700e-003		107.1132
Total	**0.0494**	**0.0333**	**0.3681**	**1.0700e-003**	**0.1118**	**8.5000e-004**	**0.1126**	**0.0296**	**7.8000e-004**	**0.0304**		**107.0365**	**107.0365**	**3.0700e-003**		**107.1132**

Culver Boulevard Realignment

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	4.73	Acre	4.73	206,038.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	11			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Schedule per Planning

Off-road Equipment -

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Off-road Equipment - Equipment operating hours per Engineering

Trips and VMT - Values per Engineering

Demolition -

Grading - Material export per Engineering

Architectural Coating - Area of asphalt to be painted estimated at 6180 sf

Construction Off-road Equipment Mitigation - Average Tier 2

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	12,362.00	6,180.00
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	55
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	55
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	18.00	5.00
tblConstructionPhase	NumDays	230.00	195.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	8.00	45.00
tblConstructionPhase	NumDays	18.00	105.00
tblGrading	AcresOfGrading	0.00	4.00
tblGrading	MaterialExported	0.00	5,125.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripLength	20.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	376.00
tblTripsAndVMT	WorkerTripNumber	18.00	22.00
tblTripsAndVMT	WorkerTripNumber	25.00	30.00
tblTripsAndVMT	WorkerTripNumber	87.00	6.00
tblTripsAndVMT	WorkerTripNumber	17.00	10.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					

2019	0.1734	1.8105	1.0713	2.8600e-003	0.0905	0.0780	0.1685	0.0180	0.0724	0.0903	0.0000	261.9274	261.9274	0.0566	0.0000	263.3417
2020	0.0617	0.6384	0.3374	1.6100e-003	0.0439	0.0127	0.0566	0.0122	0.0118	0.0239	0.0000	150.9121	150.9121	0.0179	0.0000	151.3594
2021	5.8000e-004	0.0135	5.1200e-003	4.0000e-005	4.7700e-003	1.3000e-004	4.9000e-003	1.2100e-003	1.2000e-004	1.3300e-003	0.0000	3.5040	3.5040	2.6000e-004	0.0000	3.5106
Maximum	**0.1734**	**1.8105**	**1.0713**	**2.8600e-003**	**0.0905**	**0.0780**	**0.1685**	**0.0180**	**0.0724**	**0.0903**	**0.0000**	**261.9274**	**261.9274**	**0.0566**	**0.0000**	**263.3417**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0788	1.8868	1.3038	2.8600e-003	0.0611	0.0474	0.1086	0.0136	0.0474	0.0609	0.0000	261.9272	261.9272	0.0566	0.0000	263.3415
2020	0.0514	0.7435	0.4024	1.6100e-003	0.0439	0.0116	0.0555	0.0122	0.0115	0.0237	0.0000	150.9120	150.9120	0.0179	0.0000	151.3593
2021	5.3000e-004	0.0141	5.1400e-003	4.0000e-005	4.7700e-003	1.1000e-004	4.8800e-003	1.2100e-003	1.1000e-004	1.3200e-003	0.0000	3.5040	3.5040	2.6000e-004	0.0000	3.5106
Maximum	**0.0788**	**1.8868**	**1.3038**	**2.8600e-003**	**0.0611**	**0.0474**	**0.1086**	**0.0136**	**0.0474**	**0.0609**	**0.0000**	**261.9272**	**261.9272**	**0.0566**	**0.0000**	**263.3415**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**44.52**	**-7.39**	**-21.04**	**0.00**	**21.12**	**34.87**	**26.55**	**14.06**	**29.99**	**25.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**7-1-2019**	**9-30-2019**	1.3421	1.1992
2	**10-1-2019**	**12-31-2019**	0.6069	0.7370
3	**1-1-2020**	**3-31-2020**	0.1707	0.2452
4	**4-1-2020**	**6-30-2020**	0.1852	0.1977
5	**7-1-2020**	**9-30-2020**	0.1671	0.1705
6	**10-1-2020**	**12-31-2020**	0.1678	0.1712
7	**1-1-2021**	**3-31-2021**	0.0132	0.0137

		Highest	1.3421	1.1992

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2019	9/13/2019	5	55	
2	Grading	Grading	9/14/2019	11/15/2019	5	45	
3	Paving	Paving	11/16/2019	4/10/2020	5	105	
4	Building Construction	Building Construction	4/11/2020	1/8/2021	5	195	
5	Architectural Coating	Architectural Coating	4/11/2020	4/17/2020	5	5	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Off-Highway Trucks	3	2.00	402	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Air Compressors	1	1.00	78	0.48
Grading	Concrete/Industrial Saws	1	1.00	81	0.73
Grading	Cranes	1	1.00	231	0.29
Grading	Excavators	1	0.00	158	0.38
Grading	Graders	1	0.00	187	0.41
Grading	Off-Highway Trucks	4	3.00	402	0.38
Grading	Rollers	1	1.00	80	0.38
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Trenchers	1	1.00	78	0.50
Building Construction	Cranes	1	0.00	231	0.29

Building Construction	Forklifts	3	0.00	89	0.20
Building Construction	Generator Sets	1	0.00	84	0.74
Building Construction	Sweepers/Scrubbers	1	1.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	1	1.00	97	0.37
Building Construction	Welders	1	0.00	46	0.45
Paving	Cement and Mortar Mixers	1	1.00	9	0.56
Paving	Off-Highway Trucks	2	2.00	402	0.38
Paving	Pavers	1	2.00	130	0.42
Paving	Paving Equipment	2	0.00	132	0.36
Paving	Rollers	1	1.00	80	0.38
Paving	Skid Steer Loaders	2	1.00	65	0.37
Paving	Tractors/Loaders/Backhoes	1	0.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	22.00	0.00	472.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	641.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	6.00	34.00	376.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Paving	10	30.00	0.00	0.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	32.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0511	0.0000	0.0511	7.7300e-003	0.0000	7.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0969	0.9848	0.5096	1.0600e-003		0.0476	0.0476		0.0443	0.0443	0.0000	94.1883	94.1883	0.0262	0.0000	94.8423
Total	**0.0969**	**0.9848**	**0.5096**	**1.0600e-003**	**0.0511**	**0.0476**	**0.0987**	**7.7300e-003**	**0.0443**	**0.0521**	**0.0000**	**94.1883**	**94.1883**	**0.0262**	**0.0000**	**94.8423**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8600e-003	0.0993	0.0198	2.8000e-004	6.4900e-003	4.0000e-004	6.8900e-003	1.7800e-003	3.8000e-004	2.1600e-003	0.0000	27.3235	27.3235	1.7400e-003	0.0000	27.3671
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9200e-003	2.3200e-003	0.0252	7.0000e-005	6.6400e-003	5.0000e-005	6.6900e-003	1.7600e-003	5.0000e-005	1.8100e-003	0.0000	6.1667	6.1667	1.9000e-004	0.0000	6.1715
Total	**5.7800e-003**	**0.1016**	**0.0450**	**3.5000e-004**	**0.0131**	**4.5000e-004**	**0.0136**	**3.5400e-003**	**4.3000e-004**	**3.9700e-003**	**0.0000**	**33.4902**	**33.4902**	**1.9300e-003**	**0.0000**	**33.5386**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					0.0230	0.0000	0.0230	3.4800e-003	0.0000	3.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0303	0.8660	0.6075	1.0600e-003		0.0226	0.0226		0.0226	0.0226	0.0000	94.1882	94.1882	0.0262	0.0000	94.8422
Total	**0.0303**	**0.8660**	**0.6075**	**1.0600e-003**	**0.0230**	**0.0226**	**0.0455**	**3.4800e-003**	**0.0226**	**0.0260**	**0.0000**	**94.1882**	**94.1882**	**0.0262**	**0.0000**	**94.8422**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8600e-003	0.0993	0.0198	2.8000e-004	6.4900e-003	4.0000e-004	6.8900e-003	1.7800e-003	3.8000e-004	2.1600e-003	0.0000	27.3235	27.3235	1.7400e-003	0.0000	27.3671
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9200e-003	2.3200e-003	0.0252	7.0000e-005	6.6400e-003	5.0000e-005	6.6900e-003	1.7600e-003	5.0000e-005	1.8100e-003	0.0000	6.1667	6.1667	1.9000e-004	0.0000	6.1715
Total	**5.7800e-003**	**0.1016**	**0.0450**	**3.5000e-004**	**0.0131**	**4.5000e-004**	**0.0136**	**3.5400e-003**	**4.3000e-004**	**3.9700e-003**	**0.0000**	**33.4902**	**33.4902**	**1.9300e-003**	**0.0000**	**33.5386**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4100e-003	0.0000	2.4100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0505	0.5042	0.3787	7.9000e-004		0.0260	0.0260		0.0240	0.0240	0.0000	70.5906	70.5906	0.0217	0.0000	71.1341
Total	**0.0505**	**0.5042**	**0.3787**	**7.9000e-004**	**2.4100e-003**	**0.0260**	**0.0284**	**2.7000e-004**	**0.0240**	**0.0242**	**0.0000**	**70.5906**	**70.5906**	**0.0217**	**0.0000**	**71.1341**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1349	0.0269	3.8000e-004	8.8100e-003	5.4000e-004	9.3600e-003	2.4200e-003	5.2000e-004	2.9400e-003	0.0000	37.1067	37.1067	2.3700e-003	0.0000	37.1659
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3500e-003	3.4500e-003	0.0375	1.0000e-004	9.8700e-003	8.0000e-005	9.9500e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	9.1736	9.1736	2.9000e-004	0.0000	9.1808
Total	**8.2300e-003**	**0.1383**	**0.0644**	**4.8000e-004**	**0.0187**	**6.2000e-004**	**0.0193**	**5.0400e-003**	**5.9000e-004**	**5.6300e-003**	**0.0000**	**46.2803**	**46.2803**	**2.6600e-003**	**0.0000**	**46.3467**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0800e-003	0.0000	1.0800e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.6681	0.4863	7.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	70.5906	70.5906	0.0217	0.0000	71.1341
Total	**0.0263**	**0.6681**	**0.4863**	**7.9000e-004**	**1.0800e-003**	**0.0208**	**0.0219**	**1.2000e-004**	**0.0208**	**0.0209**	**0.0000**	**70.5906**	**70.5906**	**0.0217**	**0.0000**	**71.1341**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	3.8800e-003	0.1349	0.0269	3.8000e-004	8.8100e-003	5.4000e-004	9.3600e-003	2.4200e-003	5.2000e-004	2.9400e-003	0.0000	37.1067	37.1067	2.3700e-003	0.0000	37.1659
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3500e-003	3.4500e-003	0.0375	1.0000e-004	9.8700e-003	8.0000e-005	9.9500e-003	2.6200e-003	7.0000e-005	2.6900e-003	0.0000	9.1736	9.1736	2.9000e-004	0.0000	9.1808
Total	**8.2300e-003**	**0.1383**	**0.0644**	**4.8000e-004**	**0.0187**	**6.2000e-004**	**0.0193**	**5.0400e-003**	**5.9000e-004**	**5.6300e-003**	**0.0000**	**46.2803**	**46.2803**	**2.6600e-003**	**0.0000**	**46.3467**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7400e-003	0.0797	0.0536	1.4000e-004		3.2300e-003	3.2300e-003		2.9800e-003	2.9800e-003	0.0000	12.4853	12.4853	3.9300e-003	0.0000	12.5836
Paving	1.8900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.6300e-003**	**0.0797**	**0.0536**	**1.4000e-004**		**3.2300e-003**	**3.2300e-003**		**2.9800e-003**	**2.9800e-003**	**0.0000**	**12.4853**	**12.4853**	**3.9300e-003**	**0.0000**	**12.5836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3200e-003	1.8400e-003	0.0200	5.0000e-005	5.2700e-003	4.0000e-005	5.3100e-003	1.4000e-003	4.0000e-005	1.4400e-003	0.0000	4.8926	4.8926	1.5000e-004	0.0000	4.8964

Total	**2.3200e-003**	**1.8400e-003**	**0.0200**	**5.0000e-005**	**5.2700e-003**	**4.0000e-005**	**5.3100e-003**	**1.4000e-003**	**4.0000e-005**	**1.4400e-003**	**0.0000**	**4.8926**	**4.8926**	**1.5000e-004**	**0.0000**	**4.8964**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9600e-003	0.1109	0.0805	1.4000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	12.4853	12.4853	3.9300e-003	0.0000	12.5836
Paving	1.8900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.8500e-003**	**0.1109**	**0.0805**	**1.4000e-004**		**2.9200e-003**	**2.9200e-003**		**2.9200e-003**	**2.9200e-003**	**0.0000**	**12.4853**	**12.4853**	**3.9300e-003**	**0.0000**	**12.5836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3200e-003	1.8400e-003	0.0200	5.0000e-005	5.2700e-003	4.0000e-005	5.3100e-003	1.4000e-003	4.0000e-005	1.4400e-003	0.0000	4.8926	4.8926	1.5000e-004	0.0000	4.8964
Total	**2.3200e-003**	**1.8400e-003**	**0.0200**	**5.0000e-005**	**5.2700e-003**	**4.0000e-005**	**5.3100e-003**	**1.4000e-003**	**4.0000e-005**	**1.4400e-003**	**0.0000**	**4.8926**	**4.8926**	**1.5000e-004**	**0.0000**	**4.8964**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0165	0.1619	0.1187	3.2000e-004		6.5400e-003	6.5400e-003		6.0200e-003	6.0200e-003	0.0000	27.8555	27.8555	8.9600e-003	0.0000	28.0796
Paving	4.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0208**	**0.1619**	**0.1187**	**3.2000e-004**		**6.5400e-003**	**6.5400e-003**		**6.0200e-003**	**6.0200e-003**	**0.0000**	**27.8555**	**27.8555**	**8.9600e-003**	**0.0000**	**28.0796**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8900e-003	3.7500e-003	0.0415	1.2000e-004	0.0120	9.0000e-005	0.0121	3.1900e-003	9.0000e-005	3.2800e-003	0.0000	10.8149	10.8149	3.1000e-004	0.0000	10.8227
Total	**4.8900e-003**	**3.7500e-003**	**0.0415**	**1.2000e-004**	**0.0120**	**9.0000e-005**	**0.0121**	**3.1900e-003**	**9.0000e-005**	**3.2800e-003**	**0.0000**	**10.8149**	**10.8149**	**3.1000e-004**	**0.0000**	**10.8227**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	9.0200e-003	0.2530	0.1837	3.2000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	27.8554	27.8554	8.9600e-003	0.0000	28.0795
Paving	4.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0133**	**0.2530**	**0.1837**	**3.2000e-004**		**6.6600e-003**	**6.6600e-003**		**6.6600e-003**	**6.6600e-003**	**0.0000**	**27.8554**	**27.8554**	**8.9600e-003**	**0.0000**	**28.0795**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8900e-003	3.7500e-003	0.0415	1.2000e-004	0.0120	9.0000e-005	0.0121	3.1900e-003	9.0000e-005	3.2800e-003	0.0000	10.8149	10.8149	3.1000e-004	0.0000	10.8227
Total	**4.8900e-003**	**3.7500e-003**	**0.0415**	**1.2000e-004**	**0.0120**	**9.0000e-005**	**0.0121**	**3.1900e-003**	**9.0000e-005**	**3.2800e-003**	**0.0000**	**10.8149**	**10.8149**	**3.1000e-004**	**0.0000**	**10.8227**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6600e-003	0.0524	0.0504	7.0000e-005		3.7800e-003	3.7800e-003		3.4800e-003	3.4800e-003	0.0000	5.8611	5.8611	1.9000e-003	0.0000	5.9085
Total	**5.6600e-003**	**0.0524**	**0.0504**	**7.0000e-005**		**3.7800e-003**	**3.7800e-003**		**3.4800e-003**	**3.4800e-003**	**0.0000**	**5.8611**	**5.8611**	**1.9000e-003**	**0.0000**	**5.9085**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0400e-003	0.0713	0.0149	2.1000e-004	5.1300e-003	2.5000e-004	5.3800e-003	1.4000e-003	2.4000e-004	1.6500e-003	0.0000	20.8709	20.8709	1.3200e-003	0.0000	20.9039
Vendor	0.0108	0.3429	0.0849	8.2000e-004	0.0203	1.6800e-003	0.0219	5.8400e-003	1.6100e-003	7.4500e-003	0.0000	79.0243	79.0243	5.1900e-003	0.0000	79.1540
Worker	2.5300e-003	1.9400e-003	0.0215	6.0000e-005	6.2200e-003	5.0000e-005	6.2700e-003	1.6500e-003	4.0000e-005	1.7000e-003	0.0000	5.6001	5.6001	1.6000e-004	0.0000	5.6041
Total	**0.0153**	**0.4161**	**0.1213**	**1.0900e-003**	**0.0316**	**1.9800e-003**	**0.0336**	**8.8900e-003**	**1.8900e-003**	**0.0108**	**0.0000**	**105.4953**	**105.4953**	**6.6700e-003**	**0.0000**	**105.6620**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.1300e-003	0.0647	0.0504	7.0000e-005		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	5.8611	5.8611	1.9000e-003	0.0000	5.9085
Total	**3.1300e-003**	**0.0647**	**0.0504**	**7.0000e-005**		**2.6100e-003**	**2.6100e-003**		**2.6100e-003**	**2.6100e-003**	**0.0000**	**5.8611**	**5.8611**	**1.9000e-003**	**0.0000**	**5.9085**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	2.0400e-003	0.0713	0.0149	2.1000e-004	5.1300e-003	2.5000e-004	5.3800e-003	1.4000e-003	2.4000e-004	1.6500e-003	0.0000	20.8709	20.8709	1.3200e-003	0.0000	20.9039
Vendor	0.0108	0.3429	0.0849	8.2000e-004	0.0203	1.6800e-003	0.0219	5.8400e-003	1.6100e-003	7.4500e-003	0.0000	79.0243	79.0243	5.1900e-003	0.0000	79.1540
Worker	2.5300e-003	1.9400e-003	0.0215	6.0000e-005	6.2200e-003	5.0000e-005	6.2700e-003	1.6500e-003	4.0000e-005	1.7000e-003	0.0000	5.6001	5.6001	1.6000e-004	0.0000	5.6041
Total	**0.0153**	**0.4161**	**0.1213**	**1.0900e-003**	**0.0316**	**1.9800e-003**	**0.0336**	**8.8900e-003**	**1.8900e-003**	**0.0108**	**0.0000**	**105.4953**	**105.4953**	**6.6700e-003**	**0.0000**	**105.6620**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6000e-004	1.4800e-003	1.5800e-003	0.0000		1.0000e-004	1.0000e-004		9.0000e-005	9.0000e-005	0.0000	0.1861	0.1861	6.0000e-005	0.0000	0.1876
Total	**1.6000e-004**	**1.4800e-003**	**1.5800e-003**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.1861**	**0.1861**	**6.0000e-005**	**0.0000**	**0.1876**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	2.0900e-003	4.7000e-004	1.0000e-005	3.9300e-003	1.0000e-005	3.9400e-003	9.7000e-004	1.0000e-005	9.8000e-004	0.0000	0.6556	0.6556	4.0000e-005	0.0000	0.6566
Vendor	2.9000e-004	9.8700e-003	2.4500e-003	3.0000e-005	6.4000e-004	2.0000e-005	6.6000e-004	1.9000e-004	2.0000e-005	2.0000e-004	0.0000	2.4903	2.4903	1.6000e-004	0.0000	2.4942
Worker	8.0000e-005	6.0000e-005	6.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1720	0.1720	0.0000	0.0000	0.1721

Total	**4.3000e-004**	**0.0120**	**3.5500e-003**	**4.0000e-005**	**4.7700e-003**	**3.0000e-005**	**4.8000e-003**	**1.2100e-003**	**3.0000e-005**	**1.2300e-003**	**0.0000**	**3.3179**	**3.3179**	**2.0000e-004**	**0.0000**	**3.3230**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0000e-004	2.0500e-003	1.6000e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.1861	0.1861	6.0000e-005	0.0000	0.1876
Total	**1.0000e-004**	**2.0500e-003**	**1.6000e-003**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.1861**	**0.1861**	**6.0000e-005**	**0.0000**	**0.1876**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	2.0900e-003	4.7000e-004	1.0000e-005	3.9300e-003	1.0000e-005	3.9400e-003	9.7000e-004	1.0000e-005	9.8000e-004	0.0000	0.6556	0.6556	4.0000e-005	0.0000	0.6566
Vendor	2.9000e-004	9.8700e-003	2.4500e-003	3.0000e-005	6.4000e-004	2.0000e-005	6.6000e-004	1.9000e-004	2.0000e-005	2.0000e-004	0.0000	2.4903	2.4903	1.6000e-004	0.0000	2.4942
Worker	8.0000e-005	6.0000e-005	6.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1720	0.1720	0.0000	0.0000	0.1721
Total	**4.3000e-004**	**0.0120**	**3.5500e-003**	**4.0000e-005**	**4.7700e-003**	**3.0000e-005**	**4.8000e-003**	**1.2100e-003**	**3.0000e-005**	**1.2300e-003**	**0.0000**	**3.3179**	**3.3179**	**2.0000e-004**	**0.0000**	**3.3230**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	**0.0149**	**4.2100e-003**	**4.5800e-003**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**5.0000e-005**	**0.0000**	**0.6396**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	9.0000e-005	9.5000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2469	0.2469	1.0000e-005	0.0000	0.2471
Total	**1.1000e-004**	**9.0000e-005**	**9.5000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**2.8000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2469**	**0.2469**	**1.0000e-005**	**0.0000**	**0.2471**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Archit. Coating	0.0143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8000e-004	5.8800e-003	4.5800e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	**0.0146**	**5.8800e-003**	**4.5800e-003**	**1.0000e-005**		**2.4000e-004**	**2.4000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**0.6383**	**0.6383**	**5.0000e-005**	**0.0000**	**0.6396**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	9.0000e-005	9.5000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2469	0.2469	1.0000e-005	0.0000	0.2471
Total	**1.1000e-004**	**9.0000e-005**	**9.5000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**2.8000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2469**	**0.2469**	**1.0000e-005**	**0.0000**	**0.2471**

D PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION

Geotechnologies, Inc.
Consulting Geotechnical Engineers

439 Western Avenue
Glendale, California 91201-2837
818.240.9600 • Fax 818.240.9675

August 12, 2015
File Number 21003

Kimley-Horn
660 South Figueroa Street
Los Angeles, California 90017

Attention: Michael Choi

Subject: Preliminary Geotechnical Engineering Investigation
Proposed Underground Stormwater Storage and Infiltration System
Culver Boulevard, between Sepulveda Boulevard and Elenda Street
Culver City, California

Dear Mr. Choi:

This letter transmits the Preliminary Geotechnical Engineering Investigation for the subject site prepared by Geotechnologies, Inc. This report provides preliminary geotechnical recommendations for the proposed project. Engineering for the proposed project should not begin until approval of the geotechnical investigation is granted by the local building official. Significant changes in the geotechnical recommendations may result due to the building department review process.

This report is preliminary in nature since the proposed project plan remains under development and is not well defined at this time. The analyses, conclusions, recommendations, and design parameters provided herein should be verified and re-confirmed once the proposed development plan achieves refinement.

The validity of the recommendations presented herein is dependent upon review of the geotechnical aspects of the project during construction by this firm. The subsurface conditions described herein have been projected from limited subsurface exploration and laboratory testing. The exploration and testing presented in this report should in no way be construed to reflect any variations which may occur between the exploration locations or which may result from changes in subsurface conditions.

Should you have any questions please contact this office.

Respectfully submitted,
GEOTECHNOLOGIES, INC.

REGISTERED PROFESSIONAL ENGINEER
GREGORIO VARELA
No. 81201
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA

GREGORIO VARELA
R.C.E. 81201

GV:km

Distribution: (5) Addressee

Email to: [michael.choi@kimley-horn.com]

TABLE OF CONTENTS

SECTION	PAGE
INTRODUCTION	1
PROPOSED PROJECT	1
SITE CONDITIONS	2
GEOTECHNICAL EXPLORATION	3
FIELD EXPLORATION	3
Geologic Materials	3
Groundwater	4
Caving	5
OIL WELLS	5
SEISMIC EVALUATION	5
REGIONAL GEOLOGIC SETTING	5
REGIONAL FAULTING	6
SEISMIC HAZARDS AND DESIGN CONSIDERATIONS	7
Surface Rupture	7
2013 California Building Code Seismic Parameters	8
Liquefaction	8
Tsunamis, Seiches and Flooding	10
Landsliding	11
CONCLUSIONS AND RECOMMENDATIONS	11
EXPANSIVE SOILS	12
WATER-SOLUBLE SULFATES	12
STORMWATER DISPOSAL	13
Percolation Testing	13
The Proposed System	14
Recommendations	15
GRADING GUIDELINES	17
Site Preparation	17
Compaction	17
Acceptable Materials	18
Utility Trench Backfill	18
Shrinkage	19
Weather Related Grading Considerations	19
Geotechnical Observations and Testing During Grading	20
TEMPORARY EXCAVATIONS	20
Excavation Observations	21
SHORING DESIGN	21
Soldier Piles	21
Lagging	23
Lateral Pressures	23
Tied-Back Anchors	25
Anchor Installation	26
Tieback Anchor Testing	26
Internal Bracing	27

TABLE OF CONTENTS

SECTION	PAGE
Deflection	28
Monitoring	28
Shoring Observations	28
CONCRETE FLATWORK	29
SITE DRAINAGE	29
DESIGN REVIEW	30
CONSTRUCTION MONITORING	30
EXCAVATION CHARACTERISTICS	31
CLOSURE AND LIMITATIONS	31
GEOTECHNICAL TESTING	32
Classification and Sampling	32
Moisture and Density Relationships	33
Direct Shear Testing	33
Consolidation Testing	34
Expansion Index Testing	34
Laboratory Compaction Characteristics	34
Grain Size Distribution	35

ENCLOSURES

- References
- Vicinity Map
- Plot Plan
- Historically Highest Groundwater Levels Map
- Seismic Hazard Zone Map
- Plates A-1 through A-9
- Plates B-1 through B-3
- Plates C-1 through C-4
- Plate D
- Plate E
- Plate F
- Calculation Sheets (12 pages)

PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED STORMWATER STORAGE AND INFILTRATION SYSTEM
CULVER BOULEVARD
BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET
CULVER CITY, CALIFORNIA

INTRODUCTION

This report presents the results of the preliminary geotechnical engineering investigation performed for the proposed project. The purpose of this investigation was to identify the distribution and engineering properties of the earth materials underlying the subject areas, and to provide geotechnical recommendations for the design of the proposed project.

This report is preliminary in nature since the proposed project plan remains under development and is not well defined at this time. The analyses, conclusions, recommendations, and design parameters provided herein should be verified and re-confirmed once the proposed development plan achieves refinement.

This investigation included nine exploratory excavations, collection of representative samples, laboratory testing, engineering analysis, review of published geologic data, review of available geotechnical engineering information and the preparation of this report. The exploratory excavation locations are shown on the enclosed Plot Plan. The results of the exploration and the laboratory testing are presented in the Appendix of this report.

PROPOSED PROJECT

Information concerning the proposed development was furnished by Kimley-Horn, the project's civil engineer. The proposed project consists of the installation of an underground storage and infiltration system. Preliminarily, it is anticipated that the proposed storage and infiltration

system will consist of a reinforced concrete storage gallery, approximate 29 acre-feet in volume, with an open bottom to allow for stormwater infiltration. The exact depth of the proposed storage and infiltration system has not been determined. However, it is anticipated that it would be between 15 and 30 feet below the existing site grade.

The exact location of the proposed stomwater storage and infiltration system has not been selected. It is anticipated that the system will be installed within the existing Culver Boulevard bycicle/pedestrian median, in an area to be designated within the ½-mile long stretch between Sepulveda Boulevard and Elenda Street.

Any changes in the design of the project or location of any structure, as outlined in this report, should be reviewed by this office. The recommendations contained in this report should not be considered valid until reviewed and modified or reaffirmed, in writing, subsequent to such review.

SITE CONDITIONS

The portion of Culver Boulevard subject of this investigation is approximately ½-mile in length, located between Sepulveda Boulevard and Elenda Street, in the City of Culver City, California. The subject area is shown relative to nearby topographic features in the attached Vicinity Map.

This portion of Culver Boulevard is relatively level, ranging from approximate elevation 44 feet near the intersection of Sepulveda Boulevard to 56 feet at the intersection of Elenda Street. Development along this portion of Culver Boulevard consists mainly of single-family and multi-family residential structures. The pedestrian median which divides Culver Boulevard south and north is developed with a bike-path, landscaped areas, and miscellaneous concrete flatwork. At some areas, the median is up to 3 feet higher than the elevation at Culver Boulevard. The existing development along this portion of Culver Boulevard is show in the enclosed Plot Plan.

GEOTECHNICAL EXPLORATION

FIELD EXPLORATION

The site was explored on July 6, 7 and 8, 2015. At the request of the client, the geotechnical exploration was concentrated at three separate areas, evenly distributed along the ½-mile portion of Culver Boulevard subject of this investigation. At each of the three areas of investigation, three borings were excavated to depths of 15, 30 and 50 feet, for a total of nine borings. The borings were excavated with the aid of a limited-access drilling machine using 8-inch diameter hollowstem augers. The exploration locations are shown on the enclosed Plot Plan and the geologic materials encountered are logged on Plates A-1 through A-9.

The location of the exploratory excavations was determined by measurement from hardscape features shown in the enclosed Plot Plan. Elevations of the exploratory excavations were determined from elevations contained in the survey by Iacobellis & Associates, Inc., dated October 23, 2012. The location and elevation of the test pits should be considered accurate only to the degree implied by the method used.

Geologic Materials

Fill materials were encountered in all nine exploratory borings to depths ranging between 2½ and 3 feet. The fill consists of sandy clay and clayey sands, which range from dark brown to yellowish brown in color, and are moist, stiff or medium dense, and fine grained.

The fill is in turn underlain by native alluvial soils, consisting of interlayered mixtures of sand, silt and clay. The native soils range from yellowish brown to dark brown to dark gray in color, and are slightly moist to very moist, medium dense to very dense, or stiff, and fine to coarse grained, with various amounts of gravel, and occasional rocks and cobbles. More detailed

descriptions of the earth materials encountered may be obtained from individual logs of the subsurface excavations.

Groundwater

At the request of the client, groundwater monitoring wells were installed in Borings 3, 6 and 9. The wells are 50 feet in depth, and consist of a 2-inch diameter perforated PVC casing installed within the 8-inch diameter borehole. A sand pack consisting of #3 Monterey Sand was poured into the annular space around the PVC casing. The table below provides a summary of the groundwater depths recorded at different dates:

Boring No.	Date of Measurement	Depth to Groundwater (feet)	Groundwater Elevation (feet)
B3	7/08/15	28.0	21.6
	8/1/15	27.5	22.1
	8/11/15	27.5	22.1
B6	7/07/15	50.0	-3.4
	8/1/15	50.0	-3.4
	8/11/15	50.0	-3.4
B9	7/06/15	49.5	-3.5
	8/1/15	49.5	-3.5
	8/11/15	49.5	-3.5

It is the opinion of this firm that the groundwater observed in Boring 3 is not the static groundwater level, but a heavy, localized, perched water condition created by the fine and relatively impervious soils encountered below a depth of 22½ feet. It is the opinion of this firm that the groundwater level observed in Borings 6 and 9 corresponds to the static groundwater level.

Review of the Seismic Hazard Zone Report of the Beverly Hills 7½-Minute Quadrangle, (CDMG, 1998, Revised 2005), indicates that the historical highest groundwater level along the portion of Culver Boulevard subject of this investigation ranges between approximately 13 to 18

feet below existing grade. A copy of this plate is included in the Appendix as Historically Highest Groundwater Levels Map.

Fluctuations in the level of groundwater may occur due to variations in rainfall, temperature, and other factors not evident at the time of the measurements reported herein. Fluctuations also may occur across the site. High groundwater levels can result in changed conditions.

Caving

Caving could not be directly observed during exploration due to the continuously cased design of the drilling equipment. Based on the experience of this firm, caving should be anticipated where large diameter excavations are performed within the granular (sandy) soil layers.

OIL WELLS

Based on review of the California State Division of Oil, Gas and Geothermal Resources (DOGGR) On-line Mapping System, the subject area is not located within the limits of an oil field, and no oil wells have been drilled within the subject area.

SEISMIC EVALUATION

REGIONAL GEOLOGIC SETTING

The subject property is located in the northern portion of the Peninsular Ranges Geomorphic Province. The Peninsular Ranges are characterized by northwest-trending blocks of mountain ridges and sediment-floored valleys. The dominant geologic structural features are northwest trending fault zones that either die out to the northwest or terminate at east-trending reverse faults that form the southern margin of the Transverse Ranges.

The Los Angeles Basin is located at the northern end of the Peninsular Ranges Geomorphic Province. The basin is bounded by the east and southeast by the Santa Ana Mountains and San Joaquin Hills, to the northwest by the Santa Monica Mountains. Over 22 million years ago the Los Angeles basin was a deep marine basin formed by tectonic forces between the North American and Pacific plates. Since that time, over 5 miles of marine and non-marine sedimentary rock as well as intrusive and extrusive igneous rocks have filled the basin. During the last 2 million years, defined by the Pleistocene and Holocene epochs, the Los Angeles basin and surrounding mountain ranges have been uplifted to form the present day landscape. Erosion of the surrounding mountains has resulted in deposition of unconsolidated sediments in low-lying areas by rivers such as the Los Angeles River. Areas that have experienced subtle uplift have been eroded with gullies.

REGIONAL FAULTING

Based on criteria established by the California Division of Mines and Geology (CDMG) now called California Geologic Survey (CGS), faults may be categorized as active, potentially active, or inactive. Active faults are those which show evidence of surface displacement within the last 11,000 years (Holocene-age). Potentially-active faults are those that show evidence of most recent surface displacement within the last 1.6 million years (Quaternary-age). Faults showing no evidence of surface displacement within the last 1.6 million years are considered inactive for most purposes, with the exception of design of some critical structures.

Buried thrust faults are faults without a surface expression but are a significant source of seismic activity. They are typically broadly defined based on the analysis of seismic wave recordings of hundreds of small and large earthquakes in the southern California area. Due to the buried nature of these thrust faults, their existence is usually not known until they produce an earthquake. The risk for surface rupture potential of these buried thrust faults is inferred to be low (Leighton, 1990). However, the seismic risk of these buried structures in terms of recurrence and maximum potential magnitude is not well established. Therefore, the potential

for surface rupture on these surface-verging splays at magnitudes higher than 6.0 cannot be precluded.

SEISMIC HAZARDS AND DESIGN CONSIDERATIONS

The primary geologic hazard at the site is moderate to strong ground motion (acceleration) caused by an earthquake on any of the local or regional faults. The potential for other earthquake-induced hazards was also evaluated including surface rupture, liquefaction, dynamic settlement, inundation and landsliding.

Surface Rupture

In 1972, the Alquist-Priolo Special Studies Zones Act (now known as the Alquist-Priolo Earthquake Fault Zoning Act) was passed into law. The Act defines "active" and "potentially active" faults utilizing the same aging criteria as that used by California Geological Survey (CGS). However, established state policy has been to zone only those faults which have direct evidence of movement within the last 11,000 years. It is this recency of fault movement that the CGS considers as a characteristic for faults that have a relatively high potential for ground rupture in the future.

CGS policy is to delineate a boundary from 200 to 500 feet wide on each side of the known fault trace based on the location precision, the complexity, or the regional significance of the fault. If a site lies within an Earthquake Fault Zone, a geologic fault rupture investigation must be performed that demonstrates that the proposed building site is not threatened by surface displacement from the fault before development permits may be issued.

Ground rupture is defined as surface displacement which occurs along the surface trace of the causative fault during an earthquake. Based on research of available literature and results of site reconnaissance, no known active or potentially active faults underlie the subject site. In addition,

the subject site is not located within an Alquist-Priolo Earthquake Fault Zone. Based on these considerations, the potential for surface ground rupture at the subject site is considered low.

2013 California Building Code Seismic Parameters

Based on information derived from the subsurface investigation, the subject area is classified as Site Class D, which corresponds to a "Stiff Soil" Profile, according to Table 20.3-1 of ASCE 7-10. This information and a range of coordinates were input into the USGS U.S. Seismic Design Maps tool (Version 3.1.0) to calculate the ground motions for the subject.

2013 CALIFORNIA BUILDING CODE SEISMIC PARAMETERS	
Site Class	D
Mapped Spectral Acceleration at Short Periods (S_S)	1.903g
Site Coefficient (F_a)	1.0
Maximum Considered Earthquake Spectral Response for Short Periods (S_{MS})	1.903g
Five-Percent Damped Design Spectral Response Acceleration at Short Periods (S_{DS})	1.269g
Mapped Spectral Acceleration at One-Second Period (S_1)	0.696g
Site Coefficient (F_v)	1.5
Maximum Considered Earthquake Spectral Response for One-Second Period (S_{M1})	1.045g
Five-Percent Damped Design Spectral Response Acceleration for One-Second Period (S_{D1})	0.696g

Liquefaction

Liquefaction is a phenomenon in which saturated silty to cohesionless soils below the groundwater table are subject to a temporary loss of strength due to the buildup of excess pore pressure during cyclic loading conditions such as those induced by an earthquake. Liquefaction-

related effects include loss of bearing strength, amplified ground oscillations, lateral spreading, and flow failures.

The Seismic Hazards Maps of the State of California (CDMG, 1999), classify the subject area as part of the potentially "Liquefiable" area. This determination is based on groundwater depth records, soil type and distance to a fault capable of producing a substantial earthquake. A copy of this map has been included in the Appendix.

Three site-specific liquefaction analyses were performed following the Recommended Procedures for Implementation of the California Geologic Survey Special Publication 117A, Guidelines for Analyzing and Mitigating Seismic Hazards in California (CGS, 2008), and the EERI Monograph (MNO-12) by Idriss and Boulanger (2008). The enclosed liquefaction analyses were performed based on results obtained from Borings 3, 6 and 9, using the spreadsheet template LIQ2_30.WQ1 developed by Thomas F. Blake (Blake, 1996). This program utilizes the 1996 NCEER method of analysis. This semi-empirical method is based on a correlation between measured values of Standard Penetration Test (SPT) resistance and field performance data.

Groundwater was observed in the monitoring wells at depths ranging between 27½ and 50 feet below the existing grade. According to the Seismic Hazard Zone Report of the Beverly Hill 7½-Minute Quadrangle (CDMG, 2005), the historically highest groundwater level for the subject area ranges between approximately 13 and 18 feet below the existing ground surface. As a conservative measure, a groundwater depth of 13 feet was utilized for the enclosed liquefaction analysis.

The peak ground acceleration (PGA) and modal magnitude were obtained from the USGS websites, using the Probabilistic Seismic Hazard Deaggregation program (USGS, 2008) and the U.S. Seismic Design Maps tool (USGS, 2013). A Site Class "D" (Stiff Soil Profile) and a published shear wave velocity of 230 meters per second were utilized for Vs30 (Tinsley and

Fumal, 1985) in the USGS seismic programs. A modal magnitude (M_W) of 6.6 is obtained using the USGS Probabilistic Seismic Hazard Deaggregation program (USGS, 2008). A peak ground acceleration of 0.69g was obtained using the U.S. Seismic Design Maps tool. These parameters are used in the enclosed liquefaction analyses.

Fines content, as defined by percentage passing the #200 sieve, were utilized for the fines correction factor in computing the corrected blow count of selected soil layers. Fine contents of selected samples are presented in Plate E of this report.

The site-specific liquefaction analyses included in the Appendix indicate that the site soils would not be prone to liquefaction during the ground motion expected during the design-based seismic event.

Tsunamis, Seiches and Flooding

Tsunamis are large ocean waves generated by sudden water displacement caused by a submarine earthquake, landslide, or volcanic eruption. Review of the County of Los Angeles Flood and Inundation Hazards Map, Leighton (1990), indicates the subject area does not lie within the mapped tsunami inundation boundaries.

Seiches are large waves generated in enclosed bodies of water in response to ground shaking. No major water-retaining structures are located immediately up gradient from the project subject area. Therefore, the risk of flooding from a seismically-induced seiche is considered to be remote.

Review of the County of Los Angeles Flood and Inundation Hazards Map, Leighton (1990), indicates that the subject area lies within the potential mapped inundation boundaries of the Stone Canyon Reservoir, should the dam retaining this reservoir fail during a seismic event. A

determination of whether a higher site elevation would remove the site from the potential inundation zones is beyond the scope of this investigation.

Landsliding

The probability of seismically-induced landslides occurring on the subject area is considered to be remote due to the general lack of elevation difference across the area.

CONCLUSIONS AND RECOMMENDATIONS

Based upon the exploration, laboratory testing, and research, it is the preliminary finding of Geotechnologies, Inc. that construction of the proposed project is considered feasible from a geotechnical engineering standpoint provided the advice and recommendations presented herein are followed and implemented during construction.

The following sections provide preliminary recommendations to assist in the design of the proposed stormwater storage and infiltration system. These recommendations are considered preliminary because the proposed project plan remains under development and is not well defined at this time. The analyses, conclusions, recommendations, and design parameters provided herein should be verified and re-confirmed once the proposed development plan achieves refinement.

The validity of the conclusions and design recommendations presented herein is dependent upon review of the geotechnical aspects of the proposed construction by this firm. The subsurface conditions described herein have been projected from excavations on the site as indicated and should in no way be construed to reflect any variations which may occur between these excavations or which may result from changes in subsurface conditions. Any changes in the design, as outlined in this report, should be reviewed by this office. The recommendations

contained herein should not be considered valid until reviewed and modified or reaffirmed subsequent to such review.

EXPANSIVE SOILS

The upper onsite geologic materials are in the moderate to high expansion range. The Expansion Index was found to be between 86 and 104 for bulk samples representative of the upper soils.

WATER-SOLUBLE SULFATES

The Portland cement portion of concrete is subject to attack when exposed to water-soluble sulfates. Usually the two most common sources of exposure are from soil and marine environments.

The sources of natural sulfate minerals in soils include the sulfates of calcium, magnesium, sodium, and potassium. When these minerals interact and dissolve in subsurface water, a sulfate concentration is created, which will react with exposed concrete. Over time sulfate attack will destroy improperly proportioned concrete well before the end of its intended service life.

The water-soluble sulfate content of the onsite geologic materials was tested by California Test 417. The water-soluble sulfate content was determined to be less than 0.1% percentage by weight for the soils tested. Based on American Concrete Institute (ACI) Standard 318-08, the sulfate exposure is considered to be negligible for geologic materials with less than 0.1% and Type I cement may be utilized for concrete foundations in contact with the site soils.

STORMWATER DISPOSAL

Percolation Testing

Percolation testing was conducted in Borings 1, 2, 4, 5, 7 and 8, following the test procedure for boring percolation provided in the Guidelines for Design, Investigation and Reporting Low Impact Development Stormwater Infiltration (GS200.1), dated December 31, 2014, presented in the Administrative Manual for the County of Los Angeles, Department of Public Works, Geotechnical and Material Engineering Division.

At the completion of drilling of each of the borings, a 2-inch diameter casing was placed within the center of the borehole for the purpose of conducting percolation testing. For Borings B1, B4 and B7, the casing consisted of solid PVC pipes from the ground surface to a depth of 10 feet, and perforated PVC pipes between depths of 10 and 15 feet. For Borings B2, B5 and B8, the casing consisted of solid PVC pipes from the ground surface to a depth of 10 feet, and perforated PVC pipes between depths of 10 and 30 feet. A sand pack consisting of #3 Monterey Sand was poured into the annular space around the perforated portion of the casing. A 1-foot thick hydrated bentonite seal was placed over the sand.

After the casing was installed, the boreholes were filled with water for the purpose of pre-soaking for a minimum of 4 hours. After presoaking, the boreholes were refilled with water, and the rate of drop in the water level was measured. The percolation test readings were recorded a minimum of 8 times or until a stabilized rate of drop was obtained, whichever occurred first.

The table below summarizes the results of the infiltration rates derived from the testing. Individual field readings and calculations for each of the borings have been enclosed to this document. These rates include a Reduction Factor (R_f), as required by the County of Los Angeles procedure to account for non-vertical flow. No other factors of safety or correction

factors have been applied to these rates. The Civil Engineer must determine and apply any additional factors of safety, or correction factors, required for the design.

Percolation Testing Boring No.	Depth of Boring Below Existing Ground Surface (ft.)	Elevation at Top of Boring	Percolation Testing Conducted Between Elevations:	Infiltration Rate (in./hr.)
B1	15	49.5'	39.5' and 39.5'	42.7
B2	30	49.2'	39.2' and 29.2'	44.4
B4	15	46.9'	36.9' and 31.9'	49.3
B5	30	46.8'	36.8' and 26.8'	59.3
B7	15	46.0'	36.0' and 31.0'	33.1
B8	30	46.0'	36.0' and 26.0'	51.0

At the completion of the percolation testing, the PVC casing was completely removed from each percolation testing well, and the resulting hole was backfilled with on-site soils to the ground surface.

The Proposed System

Based on preliminary information provided to this firm, it is anticipated that the proposed storage and infiltration system will consist of a reinforced concrete storage gallery, approximate 29 acre-feet in volume, with an open bottom to allow for stormwater infiltration. The depth of the proposed storage and infiltration system has not been determined. However, it is anticipated that it would be between 15 and 30 feet below the existing site grade.

The exact location of the proposed stormwater storage and infiltration system has not been selected. It is anticipated that the system will be installed within the existing Culver Boulevard bycicle/pedestrian median, in an area to be designated within the ½-mile long stretch between Sepulveda Boulevard and Elenda Street.

This office shall review the final drainage plan and infiltration system details prior to construction to evaluate whether the intent of the recommendations presented herein are satisfied.

Recommendations

Groundwater was observed in the monitoring well installed in Boring 3, at an approximate depth of 27½ feet. It is the opinion of this firm that the groundwater observed at this location consists of a heavy, localized, perched water condition, created by the fine and relatively impervious soils layer encountered below a depth of 22½ feet. Based on this consideration, installation of a stomwater infiltration system in the vicinity of Boring 3 (intersection of Culver Boulevard and Huron Avenue) is not recommended, as this would aggravate the existing perched water condition.

Groundwater was observed at a significantly greater depth in the monitoring wells installed at the other two areas of study (intersection of Culver Boulevard and Harter Avenue, and intersection of Culver Boulevard and Commonwealth). Groundwater was observed at a depth of 50 feet in Boring 6, and at a depth of 49½ feet in Boring 9. It is the opinion of this firm that the groundwater level observed in these two borings corresponds to the static groundwater level. Based on the depth to groundwater, and the granular soils observed in these borings, it is the opinion of this firm that the subsurface conditions observed at these two areas are suitable for on-site stormwater infiltration. Therefore, it is recommended that the proposed stormwater infiltration system is installed within the existing median, at a location to be selected between Harter Avenue and Sepulveda Boulevard.

It is recommended that a minimum vertical distance of 10 feet is maintained between the bottom of the proposed infiltration system and the current groundwater level. Based on the granular soils observed during exploration at the recommended area, the stormwater should percolate in a generally vertical manner. The potential for creating a perched water condition is considered to

be remote. The proposed stormwater infiltration system should not cause any damage, settlement, or adversely affect any neighboring development.

This firm has prepared the enclosed site-specific liquefaction analyses. Based on results of the enclosed analyses, the site soils are not considered prone to liquefaction. As a conservative measure, the analyses assume the presence of water at the shallowest mapped historically highest groundwater level for the site, which is on the order of 13 feet. Since it is anticipated that stormwater infiltration will be conducted below a depth of 15 feet, it is the opinion of this firm that introducing stormwater into the site soils by infiltration would not increase the potential for liquefaction hazard.

The design and construction of stormwater infiltration facilities is not the responsibility of the geotechnical engineer. However, based on the experience of this firm, it is recommended that several aspects of the use of such facilities should be considered by the design and construction team:

- Open infiltration basins have many negative associated issues. Such a design must consider attractive nuisance, impacts to growing vegetation, impacts to air quality and vector control.
- All infiltration devices should be provided with overflow protection. Once the device is full of water, additional water flowing to the device should be diverted to another acceptable disposal area, or disposed offsite in an acceptable manner.
- All connections associated with stormwater infiltration devices should be sealed and water-tight. Water leaking into the subgrade soils can lead to loss of strength, piping, erosion, settlement and/or expansion of the effected earth materials.
- Excavations proposed for the installation of stormwater facilities should comply with the "Temporary Excavations" sections of this (the referenced) reports well as CalOSHA Regulations where applicable.

GRADING GUIDELINES

The following guidelines are provided for any grading that may be required, such as backfill around the proposed infiltration galleries.

Site Preparation

- A thorough search should be made for possible underground utilities and/or structures. Any existing or abandoned utilities or structures located within the footprint of the proposed grading should be removed or relocated as appropriate.
- All vegetation, existing fill, and soft or disturbed geologic materials should be removed from the areas to receive controlled fill.
- Subsequent to the indicated removals, the exposed grade shall be scarified to a depth of six inches, moistened to optimum moisture content, and recompacted in excess of the minimum required comparative density.
- The excavated areas shall be observed by the geotechnical engineer prior to placing compacted fill.

Compaction

All fill should be mechanically compacted in layers not more than 8 inches thick. All fill shall be compacted to at least 90 percent of the maximum laboratory density for the materials used. The maximum density shall be determined by the laboratory operated by Geotechnologies, Inc. using the test method described in the most recent revision of ASTM D 1557. Based on the moderate to high expansion index of the site soils, it is recommended that fill materials are moisture conditioned to approximately 3 percent over optimum moisture content before recompaction.

Field observation and testing shall be performed by a representative of the geotechnical engineer during grading to assist the contractor in obtaining the required degree of compaction and the

proper moisture content. Where compaction is less than required, additional compactive effort shall be made with adjustment of the moisture content, as necessary, until a minimum of 90 percent compaction is obtained.

Acceptable Materials

The excavated onsite materials are considered satisfactory for reuse in the controlled fills as long as any debris and/or organic matter is removed. Any imported materials shall be observed and tested by the representative of the geotechnical engineer prior to use in fill areas. Imported materials should contain sufficient fines so as to be relatively impermeable and result in a stable subgrade when compacted. Any required import materials should consist of geologic materials with an expansion index of less than 50. The water-soluble sulfate content of the import materials should be less than 0.1% percentage by weight.

Imported materials should be free from chemical or organic substances which could affect the proposed development. A competent professional should be retained in order to test imported materials and address environmental issues and organic substances which might affect the proposed development.

Utility Trench Backfill

Utility trenches should be backfilled with controlled fill. The utility should be bedded with clean sands at least one foot over the crown. The remainder of the backfill may be onsite soil compacted to 90 percent of the laboratory maximum density. Utility trench backfill should be tested by representatives of this firm in accordance with the most recent revision of ASTM D-1557.

Shrinkage

Shrinkage results when a volume of soil removed at one density is compacted to a higher density. A shrinkage factor between 5 and 15 percent should be anticipated when excavating and recompacting the existing fill and underlying native geologic materials on the site to an average comparative compaction of 92 percent.

Weather Related Grading Considerations

When rain is forecast all fill that has been spread and awaits compaction shall be properly compacted prior to stopping work for the day or prior to stopping due to inclement weather. These fills, once compacted, shall have the surface sloped to drain to an area where water can be removed.

Temporary drainage devices should be installed to collect and transfer excess water to the street in non-erosive drainage devices. Drainage should not be allowed to pond anywhere on the site, and especially not against any foundation or retaining wall. Drainage should not be allowed to flow uncontrolled over any descending slope.

Work may start again, after a period of rainfall, once the site has been reviewed by a representative of this office. Any soils saturated by the rain shall be removed and aerated so that the moisture content will fall within three percent of the optimum moisture content.

Surface materials previously compacted before the rain shall be scarified, brought to the proper moisture content and recompacted prior to placing additional fill, if considered necessary by a representative of this firm.

Geotechnical Observations and Testing During Grading

Geotechnical observations and testing during grading are considered to be a continuation of the geotechnical investigation. It is critical that the geotechnical aspects of the project be reviewed by representatives of Geotechnologies, Inc. during the construction process. Compliance with the design concepts, specifications or recommendations during construction requires review by this firm during the course of construction. Any fill which is placed should be observed, tested, and verified if used for engineered purposes. Please advise this office at least twenty-four hours prior to any required site visit.

TEMPORARY EXCAVATIONS

Preliminarily, it is anticipated that excavations up to a depth of 30 feet may be required for the installation of the proposed stormwater storage and infiltration galleries. The excavations are expected to expose fill and dense native soils, which are suitable for vertical excavations up to 5 feet where not surcharged by adjacent traffic or structures. Vertical excavations exceeding 5 feet in height, or excavations which will be surcharged by adjacent traffic or structures should be shored.

Where sufficient space is available, temporary unsurcharged embankments could be cut at a uniform 1:1 slope gradient to a maximum height of 20 feet, and at a uniform 1½:1 (h:v) slope gradient to a maximum height of 35 feet. A uniform sloped excavation is sloped from bottom to top and does not have a vertical component.

Where sloped embankments are utilized, the tops of the slopes should be barricaded to prevent vehicles and storage loads near the top of slope within a horizontal distance equal to the depth of the excavation. If the temporary construction embankments are to be maintained during the rainy season, berms are strongly recommended along the tops of the slopes to prevent runoff

water from entering the excavation and eroding the slope faces. Water should not be allowed to pond on top of the excavation nor to flow towards it.

Excavation Observations

It is critical that the soils exposed in the cut slopes are observed by a representative of Geotechnologies, Inc. during excavation so that modifications of the slopes can be made if variations in the geologic material conditions occur. Many building officials require that temporary excavations should be made during the continuous observations of the geotechnical engineer. All excavations should be stabilized within 30 days of initial excavation.

SHORING DESIGN

The following information on the design and installation of the shoring is as complete as possible at this time. It is suggested that Geotechnologies, Inc. review the final shoring plans and specifications prior to bidding or negotiating with a shoring contractor.

One method of shoring would consist of steel soldier piles, placed in drilled holes and backfilled with concrete. The soldier piles may be designed as cantilevers or laterally braced utilizing drilled tied-back anchors or raker braces. Trench or box shoring may also be utilized for the project.

Soldier Piles

Drilled cast-in-place soldier piles should be placed no closer than 2 diameters on center. The minimum diameter of the piles is 18 inches. Structural concrete should be used for the soldier piles below the excavation; lean-mix concrete may be employed above that level. As an alternative, lean-mix concrete may be used throughout the pile where the reinforcing consists of a wideflange section. The slurry must be of sufficient strength to impart the lateral bearing

pressure developed by the wideflange section to the earth materials. For design purposes, an allowable passive value for the earth materials below the bottom plane of excavation may be assumed to be 500 pounds per square foot per foot. To develop the full lateral value, provisions should be implemented to assure firm contact between the soldier piles and the undisturbed earth materials.

Groundwater was encountered during exploration of the area recommended for the installation of the proposed infiltration system at a depth of 49½ feet below the existing site grade. If the proposed shoring piles will extend deeper than this, they will most likely encounter water. Piles placed below the water level require the use of a tremie to place the concrete into the bottom of the hole. A tremie shall consist of a water-tight tube having a diameter of not less than 10 inches with a hopper at the top. The tube shall be equipped with a device that will close the discharge end and prevent water from entering the tube while it is being charged with concrete. The tremie shall be supported so as to permit free movement of the discharge end over the entire top surface of the work and to permit rapid lowering when necessary to retard or stop the flow of concrete. The discharge end shall be closed at the start of the work to prevent water entering the tube and shall be entirely sealed at all times, except when the concrete is being placed. The tremie tube shall be kept full of concrete. The flow shall be continuous until the work is completed and the resulting concrete seal shall be monolithic and homogeneous. The tip of the tremie tube shall always be kept about five feet below the surface of the concrete and definite steps and safeguards should be taken to insure that the tip of the tremie tube is never raised above the surface of the concrete.

A special concrete mix should be used for concrete to be placed below water. The design shall provide for concrete with a strength p.s.i. of 1,000 over the initial job specification. An admixture that reduces the problem of segregation of paste/aggregates and dilution of paste shall be included. The slump shall be commensurate to any research report for the admixture, provided that it shall also be the minimum for a reasonable consistency for placing when water is present.

Casing may be required should caving be experienced in the granular or saturated geologic materials. If casing is used, extreme care should be employed so that the pile is not pulled apart as the casing is withdrawn. At no time should the distance between the surface of the concrete and the bottom of the casing be less than 5 feet.

The frictional resistance between the soldier piles and retained geologic material may be used to resist the vertical component of the anchor load. The coefficient of friction may be taken as 0.35 based on uniform contact between the steel beam and lean-mix concrete and retained earth. The portion of soldier piles below the plane of excavation may also be employed to resist the downward loads. The downward capacity may be determined using a frictional resistance of 500 pounds per square foot. The minimum depth of embedment for shoring piles is 5 feet below the bottom of the footing excavation or 5 feet below the bottom of excavated plane whichever is deeper.

Lagging

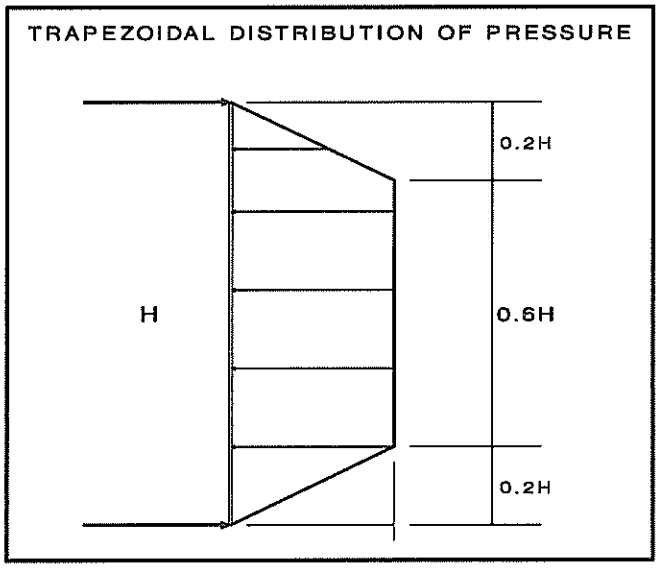
Soldier piles and anchors should be designed for the full anticipated pressures. Due to arching in the geologic materials, the pressure on the lagging will be less. It is recommended that the lagging should be designed for the full design pressure but be limited to a maximum of 400 pounds per square foot. It is recommended that a representative of this firm observe the installation of lagging to insure uniform support of the excavated embankment.

Lateral Pressures

Cantilevered shoring supporting a level backslope may be designed utilizing a triangular distribution of pressure as indicated in the following table:

HEIGHT OF SHORING "H" (feet)	EQUIVALENT FLUID PRESSURE (pounds per cubic foot)
Up to 15	34
15 to 20	39
20 to 35	46

A trapezoidal distribution of lateral earth pressure would be appropriate where shoring is to be restrained at the top by bracing or tie backs, with the trapezoidal distribution as shown in the diagram below.



Restrained shoring supporting a level backslope may be designed utilizing a trapezoidal distribution of pressure as indicated in the following table:

HEIGHT OF SHORING "H" (feet)	DESIGN SHORING FOR (Where H is the height of the wall)
Up to 15	22H
15 to 20	25H
20 to 35	29H

Where a combination of sloped embankment and shoring is utilized, the pressure will be greater and must be determined for each combination. Additional active pressure should be applied where the shoring will be surcharged by adjacent traffic or structures.

It is not anticipated that the temporary shoring walls will be surcharged by adjacent structures. However, vehicular traffic is anticipated in the vicinity of the shoring system. For traffic surcharge, the upper 10 feet of any temporary shoring wall adjacent to streets or parking areas should be designed to resist a uniform lateral pressure of 100 pounds per square foot, acting as a result of an assumed 300 pounds per square foot traffic surcharge. If the traffic is more than 10 feet from the shoring walls, the traffic surcharge may be neglected.

Tied-Back Anchors

Tied-back anchors may be used to resist lateral loads. Friction anchors are recommended. For design purposes, it may be assumed that the active wedge adjacent to the shoring is defined by a plane drawn 35 degrees with the vertical through the bottom plane of the excavation. Friction anchors should extend a minimum of 20 feet beyond the potentially active wedge. Anchors should be placed at least 6 feet on center to be considered isolated.

Drilled friction anchors constructed without utilizing pressure-grouting techniques may be designed for a skin friction of 400 pounds per square foot. Only the frictional resistance developed beyond the active wedge would be effective in resisting lateral loads. Where belled anchors are utilized, the capacity of belled anchors may be designed by applying the skin friction over the surface area of the bonded anchor shaft. The diameter of the bell may be utilized as the diameter of the bonded anchor shaft when determining the surface area. This implies that in order for the belled anchor to fail, the entire parallel soil column must also fail.

Depending on the techniques utilized, and the experience of the contractor performing the installation, it is anticipated that a skin friction of 2,000 pounds per square foot could be utilized

for post-grouted anchors, provided the design does not rely on end-bearing plates to provide the necessary capacity. Only the frictional resistance developed beyond the active wedge would be effective in resisting lateral loads.

Anchor Installation

Tied-back anchors may be installed between 20 and 40 degrees below the horizontal. Where caving of the anchor shafts is experienced, the following provisions should be implemented in order to minimize such caving. The anchor shafts should be filled with concrete by pumping from the tip out, and the concrete should extend from the tip of the anchor to the active wedge. In order to minimize the chances of caving, it is recommended that the portion of the anchor shaft within the active wedge be backfilled with sand before testing the anchor. This portion of the shaft should be filled tightly and flush with the face of the excavation. The sand backfill should be placed by pumping; the sand may contain a small amount of cement to facilitate pumping.

Tieback Anchor Testing

At least 10 percent of the anchors should be selected for "Quick", 200 percent tests. It is recommended that at least three of these anchors be selected for 24-hour, 200 percent tests. It is recommended that the 24-hour tests be performed prior to installation of additional tiebacks. The purpose of the 200 percent tests is to verify the friction value assumed in design. The anchors should be tested to develop twice the assumed friction value. Where satisfactory tests are not achieved on these initial anchors, the anchor diameter and/or length should be increased until satisfactory test results are obtained.

The total deflection during the 24-hour 200 percent test should not exceed 12 inches. During the 24-hour tests, the anchor deflection should not exceed 0.75 inches measured after the 200 percent test load is applied.

For the "quick" 200 percent tests, the 200 percent test load should be maintained for 30 minutes. The total deflection of the anchor during the 200 percent quick tests should not exceed 12 inches; the deflection after the 200 percent load has been applied should not exceed 0.25 inch during the 30-minute period.

All of the remaining anchors should be tested to at least 150 percent of design load. The total deflection during the 150 percent test should not exceed 12 inches. The rate of creep under the 150 percent test load should not exceed 0.1 inch over a 15 minute period in order for the anchor to be approved for the design loading.

After a satisfactory test, each anchor should be locked-off at the design load. This should be verified by rechecking the load in the anchor. The load should be within 10 percent of the design load. Where satisfactory tests are not attained, the anchor diameter and/or length should be increased or additional anchors installed until satisfactory test results are obtained. Where post-grouted anchors are utilized, additional post-grouting may be required. The installation and testing of the anchors should be observed by a representative of the soils engineer.

Internal Bracing

Rakers may be utilized to brace the soldier piles in lieu of tieback anchors. The raker bracing could be supported laterally by temporary concrete footings (deadmen). An allowable bearing pressure of 3,000 pounds per square foot may be used for the design a raker foundations. This bearing pressure is based on a raker foundation a minimum of 18 inches in width and length as well as 18 inches in depth into native alluvial soils. The base of the raker foundations should be horizontal. Care should be employed in the positioning of raker foundations so that they do not interfere with the foundations for the proposed structure.

Deflection

It is difficult to accurately predict the amount of deflection of a shored embankment. It should be realized that some deflection will occur. It is recommended that shoring deflection be limited to ½ inch at the top of the shored embankment where a structure is within a 1:1 plane projected up from the base of the excavation. A maximum deflection of 1-inch has been allowed, provided there are no structures within a 1:1 plane drawn upward from the base of the excavation. If greater deflection occurs during construction, additional bracing may be necessary to minimize settlement of adjacent buildings and utilities in adjacent street and alleys. If desired to reduce the deflection, a greater active pressure could be used in the shoring design.

Monitoring

Because of the depth of the excavation, some means of monitoring the performance of the shoring system is suggested. The monitoring should consist of periodic surveying of the lateral and vertical locations of the tops of all soldier piles and the lateral movement along the entire lengths of selected soldier piles. Also, some means of periodically checking the load on selected anchors will be necessary, where applicable.

Some movement of the shored embankments should be anticipated as a result of the relatively deep excavation. It is recommended that photographs of the existing buildings on the adjacent properties be made during construction to record any movements for use in the event of a dispute.

Shoring Observations

It is critical that the installation of shoring is observed by a representative of Geotechnologies, Inc. Many building officials require that shoring installation should be performed during continuous observation of a representative of the geotechnical engineer. The observations insure

that the recommendations of the geotechnical report are implemented and so that modifications of the recommendations can be made if variations in the geologic material or groundwater conditions warrant. The observations will allow for a report to be prepared on the installation of shoring for the use of the local building official, where necessary

CONCRETE FLATWORK

Outdoor concrete flatwork that will not be subject to vehicular traffic, such as sidewalks and walkways, should be a minimum of 4 inches in thickness. Complete removal of the existing fill beneath outdoor flatwork is not required; however, due to the rigid nature of concrete, some cracking, a shorter design life and increased maintenance costs should be anticipated. In order to provide uniform support beneath the flatwork it is recommended that a minimum of 12 inches of the exposed subgrade beneath the flatwork be scarified and recompacted to 90 percent relative compaction.

Outdoor concrete flatwork should be reinforced with a minimum of #3 steel bars on 18-inch centers each way. For standard control of concrete cracking, a maximum crack control joint spacing of 10 feet should not be exceeded. Lesser spacing would provide greater crack control. Joints at curves and angle points are recommended. The crack control joints should be installed as soon as practical following concrete placement. Crack control joints should extend a minimum depth of one-fourth the slab thickness. Construction joints should be designed by a structural engineer.

SITE DRAINAGE

Proper surface drainage is critical to the future performance of the project. Saturation of a soil can cause it to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Proper site drainage should be maintained at all times. Drainage should not be allowed to pond anywhere on the site.

DESIGN REVIEW

Engineering of the proposed project should not begin until approval of the geotechnical report by the Building Official is obtained in writing. Significant changes in the geotechnical recommendations may result during the building department review process.

It is recommended that the geotechnical aspects of the project be reviewed by this firm during the design process. This review provides assistance to the design team by providing specific recommendations for particular cases, as well as review of the proposed construction to evaluate whether the intent of the recommendations presented herein are satisfied.

CONSTRUCTION MONITORING

Geotechnical observations and testing during construction are considered to be a continuation of the geotechnical investigation. It is critical that this firm review the geotechnical aspects of the project during the construction process. Compliance with the design concepts, specifications or recommendations during construction requires review by this firm during the course of construction. All foundations should be observed by a representative of this firm prior to placing concrete or steel. Any fill which is placed should be observed, tested, and verified if used for engineered purposes. Please advise Geotechnologies, Inc. at least twenty-four hours prior to any required site visit.

If conditions encountered during construction appear to differ from those disclosed herein, notify Geotechnologies, Inc. immediately so the need for modifications may be considered in a timely manner.

It is the responsibility of the contractor to ensure that all excavations and trenches are properly sloped or shored. All temporary excavations should be cut and maintained in accordance with applicable OSHA rules and regulations.

EXCAVATION CHARACTERISTICS

The exploration performed for this investigation is limited to the geotechnical excavations described. Direct exploration of the entire site would not be economically feasible. The owner, design team and contractor must understand that differing excavation and drilling conditions may be encountered based on boulders, gravel, oversize materials, groundwater and many other conditions. Fill materials, especially when they were placed without benefit of modern grading codes, regularly contain materials which could impede efficient grading and drilling. Southern California sedimentary bedrock is known to contain variable layers which reflect differences in depositional environment. Such layers may include abundant gravel, cobbles and boulders. Similarly bedrock can contain concretions. Concretions are typically lenticular and follow the bedding. They are formed by mineral deposits. Concretions can be very hard. Excavation and drilling in these areas may require full size equipment and coring capability. The contractor should be familiar with the site and the geologic materials in the vicinity.

CLOSURE AND LIMITATIONS

The purpose of this report is to aid in the design and completion of the described project. Implementation of the advice presented in this report is intended to reduce certain risks associated with construction projects. The professional opinions and geotechnical advice contained in this report are sought because of special skill in engineering and geology and were prepared in accordance with generally accepted geotechnical engineering practice. Geotechnologies, Inc. has a duty to exercise the ordinary skill and competence of members of the engineering profession. Those who hire Geotechnologies, Inc. are not justified in expecting infallibility, but can expect reasonable professional care and competence.

The scope of the geotechnical services provided did not include any environmental site assessment for the presence or absence of organic substances, hazardous/toxic materials in the soil, surface water, groundwater, or atmosphere, or the presence of wetlands.

Proper compaction is necessary to reduce settlement of overlying improvements. Some settlement of compacted fill should be anticipated. Any utilities supported therein should be designed to accept differential settlement. Differential settlement should also be considered at the points of entry to the structure.

If corrosion sensitive improvements are planned, it is recommended that a comprehensive corrosion study should be commissioned. The study will develop recommendations to avoid premature corrosion of buried pipes and concrete structures in direct contact with the soils.

GEOTECHNICAL TESTING

Classification and Sampling

The soil is continuously logged by a representative of this firm and classified by visual examination in accordance with the Unified Soil Classification system. The field classification is verified in the laboratory, also in accordance with the Unified Soil Classification System. Laboratory classification may include visual examination, Atterberg Limit Tests and grain size distribution. The final classification is shown on the excavation logs.

Samples of the geologic materials encountered in the exploratory excavations were collected and transported to the laboratory. Undisturbed samples of soil are obtained at frequent intervals. Unless noted on the excavation logs as an SPT sample, samples acquired while utilizing a hollow-stem auger drill rig are obtained by driving a thin-walled, California Modified Sampler with successive 30-inch drops of a 140-pound hammer. The soil is retained in brass rings of 2.50 inches outside diameter and 1.00 inch in height. The central portion of the samples are stored in close fitting, waterproof containers for transportation to the laboratory. Samples noted on the excavation logs as SPT samples are obtained in accordance with the most recent revision of ASTM D 1586. Samples are retained for 30 days after the date of the geotechnical report.

Moisture and Density Relationships

The field moisture content and dry unit weight are determined for each of the undisturbed soil samples, and the moisture content is determined for SPT samples by the most recent revision of ASTM D 4959 or ASTM D 4643. This information is useful in providing a gross picture of the soil consistency between exploration locations and any local variations. The dry unit weight is determined in pounds per cubic foot and shown on the "Excavation Logs", A-Plates. The field moisture content is determined as a percentage of the dry unit weight.

Direct Shear Testing

Shear tests are performed by the most recent revision of ASTM D 3080 with a strain controlled, direct shear machine manufactured by Soil Test, Inc. or a Direct Shear Apparatus manufactured by GeoMatic, Inc. The rate of deformation is approximately 0.025 inches per minute. Each sample is sheared under varying confining pressures in order to determine the Mohr-Coulomb shear strength parameters of the cohesion intercept and the angle of internal friction. Samples are generally tested in an artificially saturated condition. Depending upon the sample location and future site conditions, samples may be tested at field moisture content. The results are plotted on the "Shear Test Diagram," B-Plates.

The most recent revision of ASTM 3080 limits the particle size to 10 percent of the diameter of the direct shear test specimen. The sheared sample is inspected by the laboratory technician running the test. The inspection is performed by splitting the sample along the sheared plane and observing the soils exposed on both sides. Where oversize particles are observed in the shear plane, the results are discarded and the test run again with a fresh sample.

Consolidation Testing

Settlement predictions of the soil's behavior under load are made on the basis of the consolidation tests using the most recent revision of ASTM D 2435. The consolidation apparatus is designed to receive a single one-inch high ring. Loads are applied in several increments in a geometric progression, and the resulting deformations are recorded at selected time intervals. Porous stones are placed in contact with the top and bottom of each specimen to permit addition and release of pore fluid. Samples are generally tested at increased moisture content to determine the effects of water on the bearing soil. The normal pressure at which the water is added is noted on the drawing. Results are plotted on the "Consolidation Test," C-Plates.

Expansion Index Testing

The expansion tests performed on the remolded samples are in accordance with the Expansion Index testing procedures, as described in the most recent revision of ASTM D4829. The soil sample is compacted into a metal ring at a saturation degree of 50 percent. The ring sample is then placed in a consolidometer, under a vertical confining pressure of 1 lbf/square inch and inundated with distilled water. The deformation of the specimen is recorded for a period of 24 hour or until the rate of deformation becomes less than 0.0002 inches/hour, whichever occurs first. The expansion index, EI, is determined by dividing the difference between final and initial height of the ring sample by the initial height, and multiplied by 1,000. Results are presented in Plate D of this report.

Laboratory Compaction Characteristics

The maximum dry unit weight and optimum moisture content of a soil are determined by use of the most recent revision of ASTM D 1557. A soil at a selected moisture content is placed in five layers into a mold of given dimensions, with each layer compacted by 25 blows of a 10 pound

hammer dropped from a distance of 18 inches subjecting the soil to a total compactive effort of about 56,000 pounds per cubic foot. The resulting dry unit weight is determined. The procedure is repeated for a sufficient number of moisture contents to establish a relationship between the dry unit weight and the water content of the soil. The data when plotted represent a curvilinear relationship known as the compaction curve. The values of optimum moisture content and modified maximum dry unit weight are determined from the compaction curve. Results are presented in Plate D of this report.

Grain Size Distribution

These tests cover the quantitative determination of the distribution of particle sizes in soils. Sieve analysis is used to determine the grain size distribution of the soil larger than the Number 200 sieve. The most recent revision of ASTM D 422 is used to determine particle sizes smaller than the Number 200 sieve. A hydrometer is used to determine the distribution of particle sizes by a sedimentation process. The grain size distributions are plotted on the E-Plates presented in the Appendix of this report.

REFERENCES

Applied Technology Council (1978), Tentative Provisions for Development of Seismic Regulations for Buildings: ATC Publication ATC 3-06, NBS Special Publication 510, NSF Publication 78-8.

Blake, T.F. (1996), Spreadsheet Template LIQ2_30.WQ1 - A Computer Program for the Determination of Liquefaction Potential.

Boore, D.M., Joyner, W.B., and Fumal, T.E. (1993), Estimation of Response Spectra and Peak Accelerations From Western North American Earthquakes: An interim Report, U.S. Geological Survey Open-File Report 93-509, 15 pp.

California Department of Conservation, Division of Mines and Geology, 1998, Seismic Hazard Zone Report of the Beverly Hills 7½-Minute Quadrangle, Los Angeles County, California, C.D.M.G. Seismic Hazard Zone Report 023, map scale 1:24,000.

California Department of Conservation, Division of Mines and Geology, 1999, Seismic Hazard Zones Map, Beverly Hills 7½-minute Quadrangle.

California Division of Mines and Geology (1978), Fault Evaluation Report FER-71.

California Geological Survey, 2008, Guidelines for Evaluation and Mitigation of Seismic Hazards in California, Special Publication 117A.

Division of Oil, Gas, and Geothermal Resources, 2013, DOGGER Online Mapping system, http://maps.conservation.ca.gov/doms/doms-app.html

Hauksson, E. (1992), Seismicity, Faults, and Earthquake Potential in Los Angeles, Southern California: Engineering Geology Practice in Southern California, Special Publication No. 4, Association of Engineering Geologists.

Jennings, Charles W. (1994), Fault Activity Map of California and Adjacent Areas, California Division of Mines and Geology.

Leighton and Associates, Inc. (1990), Technical Appendix to the Safety Element of the Los Angeles County General Plan: Hazard Reduction in Los Angeles County.

O'Rourke, T.D., Pease, J.W. (1997), Mapping Liquefiable Layer Thickness for Seismic Hazard Assessment, Journal of the Geotechnical Engineering Division, American Society of Civil Engineers, vol. 123, no. 1, pp. 46-56.

REFERENCES - continued

Poland, J.F., Garell, A.A., AND Sinott, A., 1959, Geology, Hydrology, and Chemical Character of Groundwaters in the Torrance-Santa Monica area, California; U.S. Geological Survey, Water Supply Paper 1461.

Seed, H.B., Idriss, I.M., and Arango, I. (1983), Evaluation of Liquefaction Potential Using Field Performance Data, Journal of the Geotechnical Engineering Division, American Society of Civil Engineers, vol. 109, no. 3, pp. 458-482.

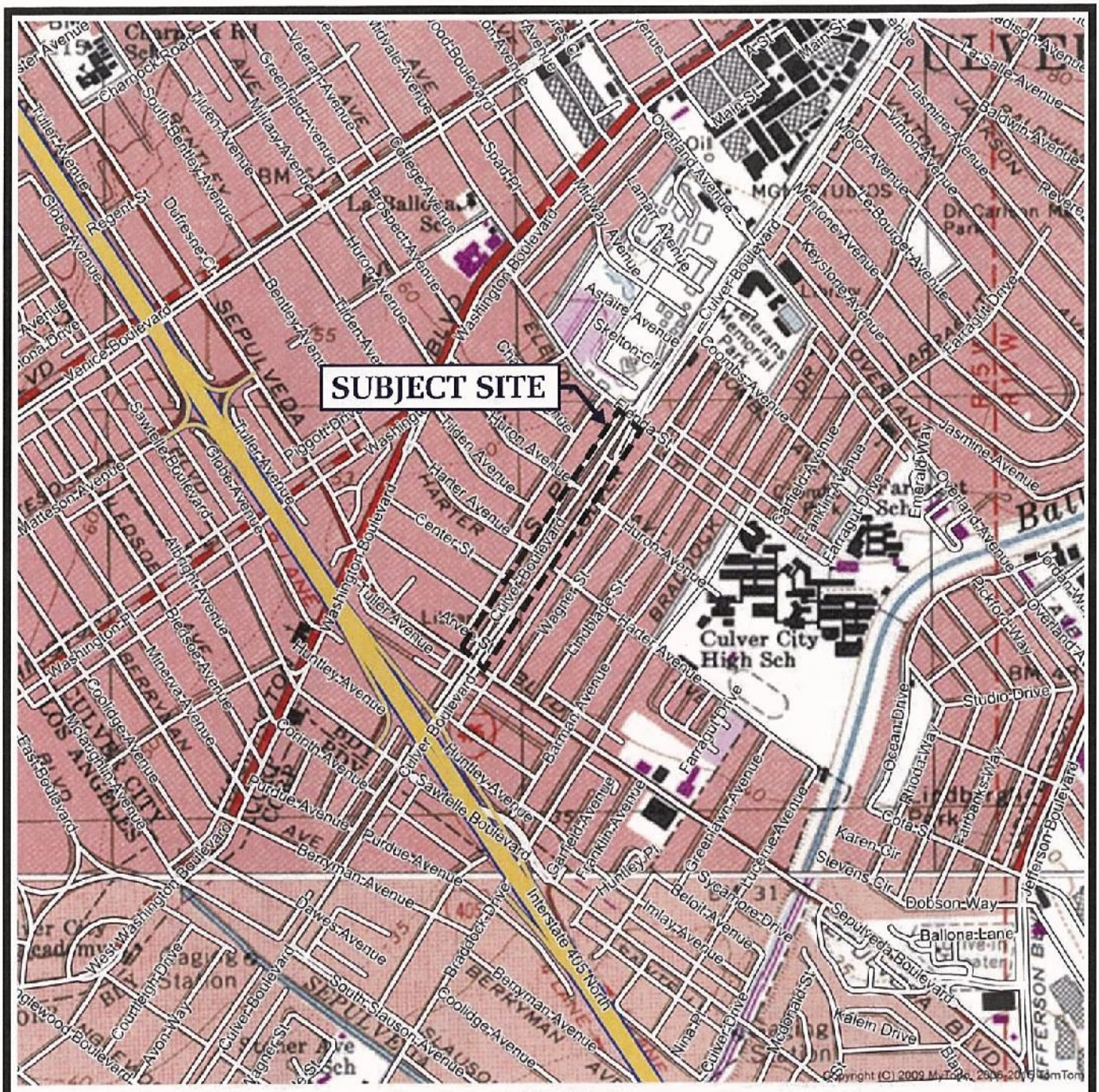
Tokimatsu, K., and Yoshimi, Y. (1983), Empirical Correlation of Soil Liquefaction Based on SPT N-Value and Fines Content, Soils and Foundations, Japanese Society of Soil Mechanics and Foundation Engineering, vol. 23, no. 4, pp. 56-74.

United States Geological Survey, 2008, U.S.G.S. Interactive Deaggregation Program. http://eqint.cr.usgs.gov/deaggint/2008/index.php.

United States Geological Survey, 2013, U.S.G.S. U.S. Seismic Design Maps tool (Version 3.1.0). http://geohazards.usgs.gov/designmaps/us/application.php.

Yerkes, R.F., McCulloh, T.H., Schoellhamer, J.E., Vedder, J.G., Geology of the Los Angeles Basin, Southern California- An Introduction, U.S. Geological Professional Paper 420-A.

Youd, T. L. and Garris, C. T., 1995, Liquefaction-Induced Ground Surface Disruption, Journal of Geotechnical Engineering, ASCE, Vol. 121, No. 11, P. 805-809.



SCALE 1:12000

0.0 0.1 0.2 0.3 0.4 0.5 0.6
MILES

0 1000 2000 3000
FEET

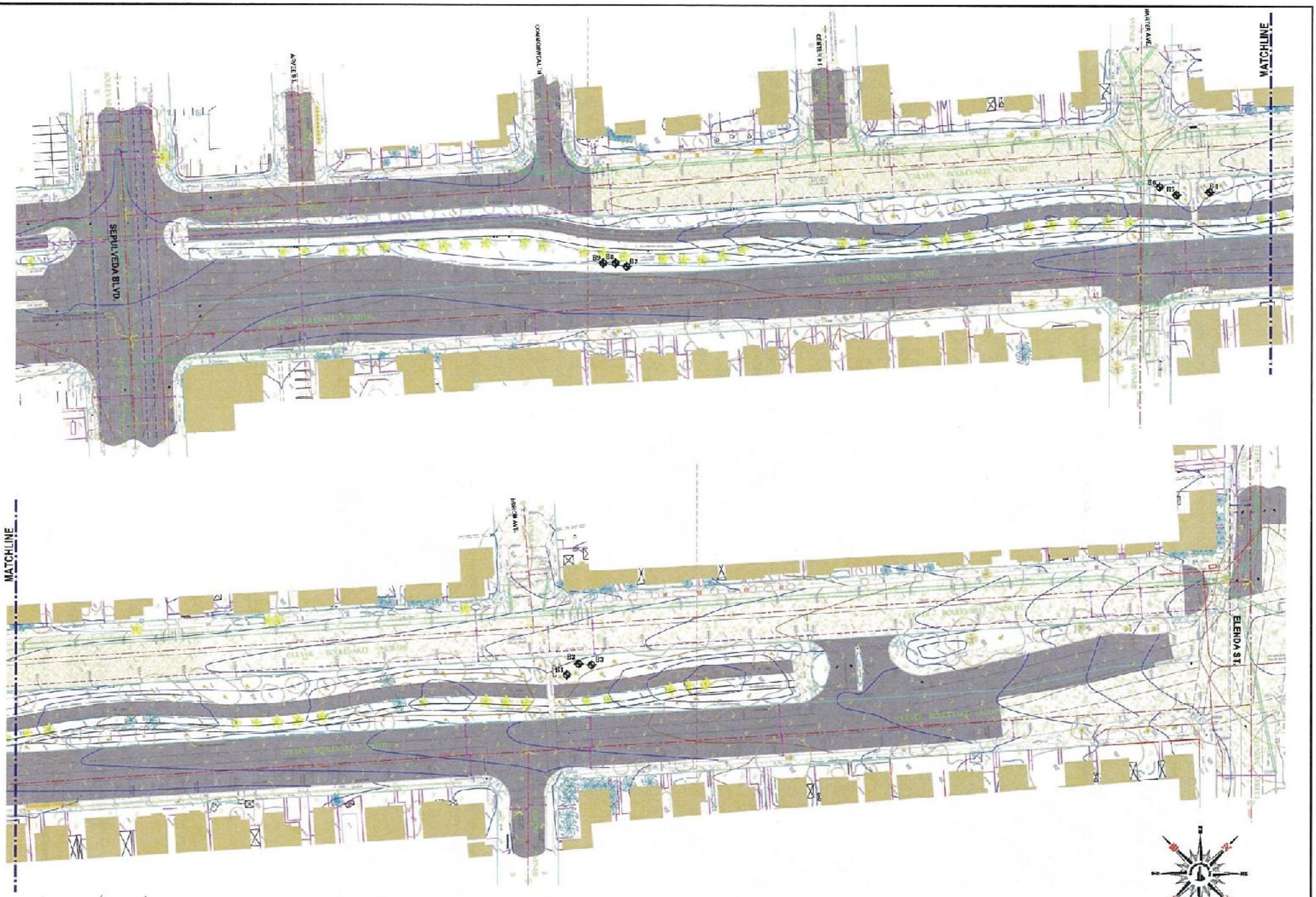
REFERENCE: U.S.G.S. TOPOGRAPHIC MAPS, 7.5 MINUTE SERIES, BEVERLY HILLS, CA QUADRANGLE

VICINITY MAP

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY-HORN

FILE NO. 21003



LEGEND

B9 LOCATION & NUMBER OF BORING

REFERENCE: STREET PROFILE SURVEY BY IACOBELLIS AND ASSOCIATES, INC. DATED OCTOBER 23, 2012

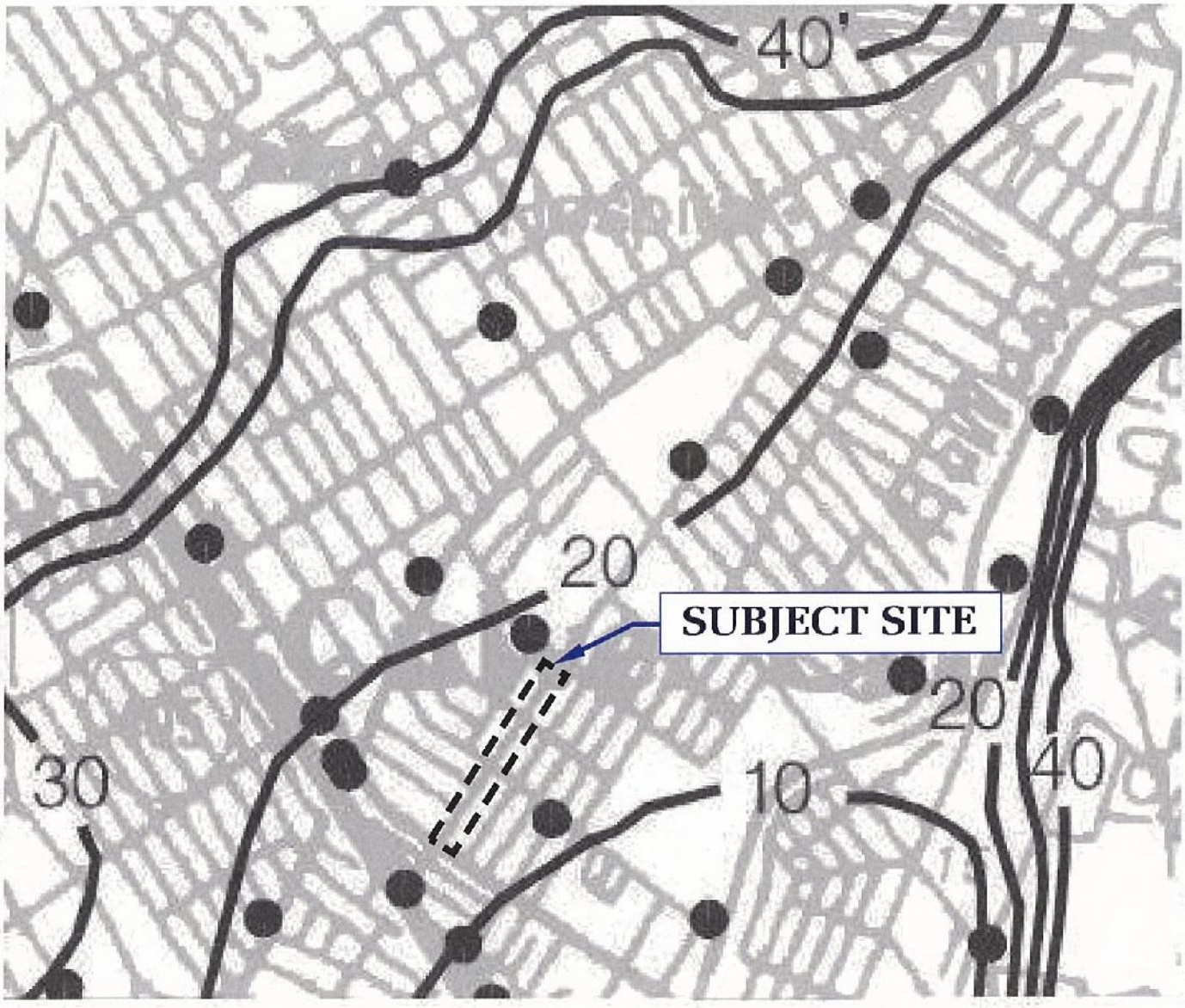
Geotechnologies, Inc.
Consulting Geotechnical Engineers

PLOT PLAN

KIMLEY-HORN

File No.: 21003

Date: August '15



ONE MILE

SCALE

20 Depth to groundwater in feet

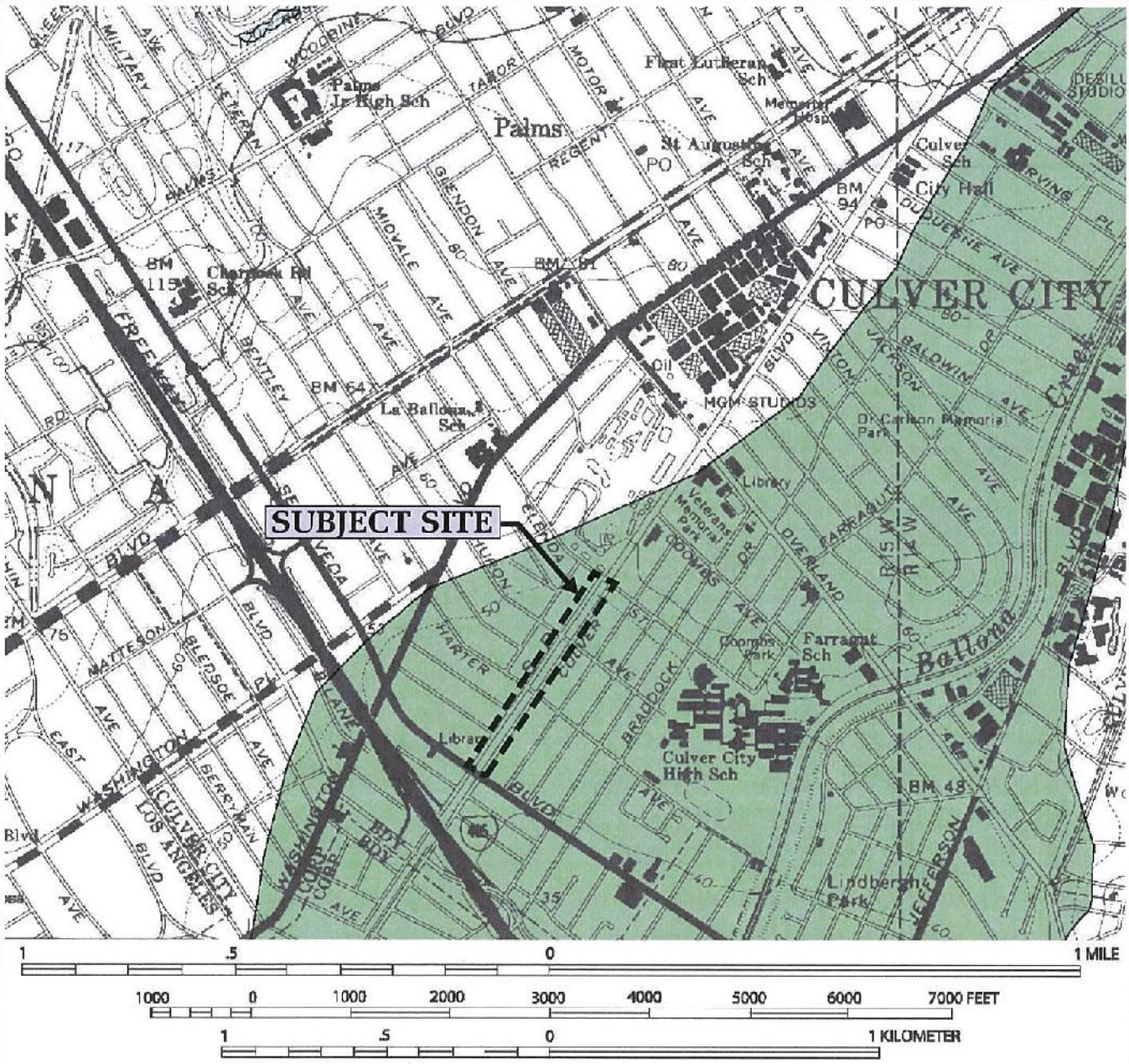
REFERENCE: CDMG, SEISMIC HAZARD ZONE REPORT, 023
BEVERLY HILLS 7.5 - MINUTE QUADRANGLE, LOS ANGELES COUNTY, CALIFORNIA (1998, REVISED 2005)

HISTORICALLY HIGHEST GROUNDWATER LEVELS

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY-HORN

FILE No. 21003



LIQUEFACTION AREA

REFERENCE: SEISMIC HAZARD ZONES, BEVERLY HILLS QUADRANGLE OFFICIAL MAP (CDMG, 1999)

SEISMIC HAZARD ZONE MAP

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY-HORN

FILE NO. 21003

BORING LOG NUMBER 1

Kimley-Horn | **Date: 07/08/15** | **Elevation: 49.5'***

File No. 21003 | **Method: 8-inch diameter Hollow Stem Auger**

km | *Reference: Survey by Iacobellis & Associates, dated 10/23/12

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description Surface Conditions: Planter Area
				0 --		FILL: Clayey Sand to Sandy Clay, dark brown, moist, stiff, medium dense, fine grained
				1 --		
				2 --		
2.5	31	14.3	93.8			
				3 --	SC/CL	Clayey Sand to Sandy Clay, dark brown, moist, stiff, medium dense, fine grained
				4 --		
5	66	10.6	118.0	5 --		dark to medium brown
				6 --		
				7 --		
				8 --		
				9 --		
10	84	2.1	112.3	10 --	SW/SM	Sand to Silty Sand, dark brown, moist, dense, fine to coarse grained, with abundant gravel
				11 --		
				12 --		
				13 --		
				14 --	SW	Sand, dark brown, moist, very dense, fine to coarse grained, with gravel and rocks
15	28 50/3"	2.3	124.9	15 --		Total Depth 15 feet No Water Fill to 3 feet
				16 --		
				17 --		
				18 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				19 --		
				20 --		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				21 --		
				22 --		
				23 --		
				24 --		
				25 --		

BORING LOG NUMBER 2

Kimley-Horn | **Date: 07/08/15** | **Elevation: 49.2'***

File No. 21003 | **Method: 8-inch diameter Hollow Stem Auger**

km | *Reference: Survey by Iacobellis & Associates, dated 10/23/12

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description Surface Conditions: Planter Area
				0 --		FILL: Sandy Clay, dark brown, moist, stiff
				1 --		
				2 --		
2.5	46	14.8	112.7	3 --	CL	Sandy Clay, dark brown, moist, stiff
				4 --		
5	43	7.3	123.3	5 --	SM/ML	Sandy Silt to Silty Sand, dark brown, moist, stiff, medium dense, fine grained
				6 --		
				7 --		
				8 --		
				9 --		
10	59	6.3	Disturbed	10 --	SM	Silty Sand, medium brown, moist, medium dense to dense, fine grained
				11 --		
				12 --		
				13 --		
				14 --		
15	33 50/3"	2.7	120.2	15 --	SP/SW	Sand to Gravelly Sand, dark to medium brown, moist, very dense, fine to coarse grained, with few rocks
				16 --		
				17 --		
				18 --		
				19 --		
20	30 50/3"	2.4	117.8	20 --		medium brown
				21 --		
				22 --		
				23 --		
				24 --		
25	100/8"	3.0	129.2	25 --		grayish brown, with few rocks

BORING LOG NUMBER 2

Kimley-Horn

File No. 21003

km

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				26		
				27		
				28		
				29		
					CL	Silty Clay, gray to dark gray, moist, stiff
30	48	33.4	89.5	30		Total Depth 30 feet No Water Fill to 2½ feet
				31		
				32		
				33		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				34		
				35		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		

BORING LOG NUMBER 3

Kimley-Horn **Date: 07/08/15** **Elevation: 49.6'***

File No. 21003 **Method: 8-inch diameter Hollow Stem Auger**

km *Reference: Survey by Iacobellis & Associates, dated 10/23/12

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description Surface Conditions: Planter Area
				0 --		FILL: Sandy Clay, dark brown, moist, stiff
				1 --		
				2 --		
2.5	45	14.2	115.4			
				3 --	CL	Sandy Clay, dark brown, moist, stiff
				4 --		
5	23	9.4	SPT	5 --		
				6 --		
				7 --		
7.5	34 50/5"	1.8	122.6		SM/SW	Silty Sand to Sand, dark and medium brown, very dense, fine to coarse grained, few rocks and cobbles
				8 --		
				9 --		
10	31	3.3	SPT	10 --	SP/SW	Sand, dark brown, moist, medium dense to dense, fine to coarse grained, with abundant gravel and few rocks
				11 --		
				12 --		
12.5	28 50/4"	2.0	114.8			
				13 --		
				14 --		
15	29 50/5"	2.1	SPT	15 --		
				16 --		
				17 --		
17.5	29 50/3"	2.3	119.0			
				18 --		
				19 --		
20	69	2.7	SPT	20 --		
				21 --		
				22 --		
22.5	27 50/4"	24.8	106.2		ML/CL	Sandy Silt to Silty Clay, dark grayish brown, very moist, stiff
				23 --		
				24 --		
25	35	36.0	SPT	25 --		

BORING LOG NUMBER 3

Kimley-Horn

File No. 21003

km

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				26		
				27		
27.5	28	39.7	81.7			
				28		gray
				29		
30	28	39.5	SPT	30		
				31		
				32		
32.5	48	32.3	88.0			
				33		
				34		
35	27	28.1	SPT	35		
				36		
				37		
37.5	25	32.9	84.7			
				38		
				39		
40	29	27.1	SPT	40		
				41		
				42		
				43		
				44		
45	32	32.6	SPT	45		
				46		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				47		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop
				48		Modified California Sampler used unless otherwise noted
				49		SPT=Standard Penetration Test
50	31	44.5	SPT	50		
						Total Depth 50 feet Water at 28 feet Fill to 3 feet

BORING LOG NUMBER 4

Kimley-Horn | **Date: 07/07/15** | **Elevation: 46.9'***

File No. 21003 | **Method: 8-inch diameter Hollow Stem Auger**

km | *Reference: Survey by Iacobellis & Associates, dated 10/23/12

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description Surface Conditions: Planter Area
				0 --		FILL: Sandy Clay, dark brown, moist, stiff
				1 --		
				2 --		
2.5	41	15.4	117.7	3 --	CL	Sandy Clay, dark brown, moist, stiff
				4 --		
5	27	10.9	106.8	5 --	ML	Sandy Silt, yellowish brown, moist, stiff
				6 --		
				7 --		
				8 --		
				9 --		
10	81	7.2	122.0	10 --	SM	Silty Sand, yellowish brown, moist, very dense, fine grained
				11 --		
				12 --		
				13 --		
				14 --	SP/SW	Sand, dark and yellowish brown, moist, dense, fine to coarse grained, with abundant gravel
15	80	1.9	122.5	15 --		Total Depth 15 feet No Water Fill to 2½ feet
				16 --		
				17 --		
				18 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				19 --		
				20 --		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				21 --		
				22 --		
				23 --		
				24 --		
				25 --		

BORING LOG NUMBER 5

Kimley-Horn | **Date: 07/07/15** | **Elevation: 46.8'***

File No. 21003 | **Method: 8-inch diameter Hollow Stem Auger**

km | *Reference: Survey by Iacobellis & Associates, dated 10/23/12

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description Surface Conditions: Planter Area
				0 --		FILL: Clayey Sand to Sandy Clay, dark brown, moist, stiff
				1 --		
				2 --		
2.5	46	14.9	119.4	3 --	CL	Sandy Clay, dark brown, moist, stiff
				4 --		
5	32	11.0	97.6	5 --	ML/SM	Sandy Silt to Silty Sand, dark brown, moist, stiff, medium dense, fine grained
				6 --		
				7 --		
				8 --		
				9 --		
10	53	7.7	120.1	10 --	SM	Silty Sand, dark brown, moist, stiff
				11 --		
				12 --		
				13 --		
				14 --		
15	75 50/2"	2.6	119.3	15 --	SP/SW	Sand, dark and yellowish brown, slightly moist, very dense, fine to coarse grained, with abundant gravel and few rocks
				16 --		
				17 --		
				18 --		
				19 --		
20	37 50/4"	2.4	120.4	20 --		
				21 --		
				22 --		
				23 --		
				24 --		
25	43 50/4"	3.2	115.4	25 --	SP	Sand, dark and medium brown, slightly moist, very dense, fine to coarse grained, few gravel

BORING LOG NUMBER 5

Kimley-Horn

File No. 21003

km

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				26		
				27		
				28		
				29		
						yellow and grayish brown
30	33 50/6"	8.5	98.7	30		Total Depth 30 feet No Water Fill to 2½ feet
				31		
				32		
				33		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				34		
				35		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		

BORING LOG NUMBER 6

Kimley-Horn | **Date: 07/07/15** | **Elevation: 46.6'***

File No. 21003 | **Method: 8-inch diameter Hollow Stem Auger**

km

*Reference: Survey by Iacobellis & Associates, dated 10/23/12

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description Surface Conditions: Planter Area
				0 --		FILL: Clayey Sand to Sandy Clay, dark brown, moist, stiff, medium dense, fine grained
				1 --		
				2 --		
2.5	43	14.9	116.9	3 --	CL	Sandy Clay, dark brown, moist, stiff
				4 --		
5	9	12.1	SPT	5 --	ML	Sandy to Clayey Silt, dark brown, moist, stiff
				6 --		
				7 --		
7.5	24	6.1	119.2	8 --	SM	Silty Sand, dark brown, moist, medium dense, fine grained
				9 --		
10	32	7.4	SPT	10 --		
				11 --		
				12 --		
12.5	71	2.7	118.4	13 --	SP	Sand, yellowish brown, slightly moist, dense, fine grained, few gravel
				14 --		
15	82	1.5	SPT	15 --	SP/SW	Sand, dark and yellowish brown, moist, dense to very dense, fine to coarse grained, abundant gravel, few rocks
				16 --		
				17 --		
17.5	100/7"	2.0	117.2	18 --		
				19 --		
20	44 50/5"	3.8	SPT	20 --		
				21 --		
				22 --		
22.5	30 50/5"	1.1	124.5	23 --		
				24 --		
25	27 50/5"	3.6	SPT	25 --	SP	Sand, yellowish brown, moist, dense, fine grained

BORING LOG NUMBER 6

Kimley-Horn

File No. 21003

km

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				26		
				27	SP/SW	Sand to Gravelly Sand, dark and yellowish brown, moist, very dense, fine to coarse grained
27.5	33 50/3"	6.3	100.1	28	SP	Sand, yellow and olive brown, moist, very dense, fine grained
				29		
30	59	5.3	SPT	30		
				31		
				32		
32.5	38 50/4"	3.4	101.5	33		
				34		
35	74	2.9	SPT	35		
				36		
				37		
37.5	31 50/5"	3.1	104.0	38		
				39		
40	54 50/4"	3.4	SPT	40		yellow and olive brown, fine to medium grained
				41		
				42		
42.5	34 50/5"	3.5	108.2	43		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				44		
45	74	4.0	SPT	45		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				46		
				47		SPT=Standard Penetration Test
47.5	34 50/4"	23.8	103.3	48	SM/SP	Silty Sand to Sand, dark and grayish brown, moist, very dense, fine to medium grained
				49		
50	45	29.0	SPT	50		
						Total Depth 50 feet Water at 50 feet Fill to 2½ feet

BORING LOG NUMBER 7

Kimley-Horn | **Date: 07/06/15** | **Elevation: 46.0'***

File No. 21003 | **Method: 8-inch diameter Hollow Stem Auger**

km | *Reference: Survey by Iacobellis & Associates, dated 10/23/12

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description Surface Conditions: Planter Area
				0 --		FILL: Clayey Sand, dark and yellowish brown, moist, medium dense, fine grained
				1 --		
				2 --		
2.5	35	17.5	111.6	3 --	CL	Sandy Clay, dark brown, moist, stiff
				4 --		
5	16	15.8	111.4	5 --	ML/CL	Sandy Silt to Sandy Clay, dark brown, moist, stiff
				6 --		
				7 --		
				8 --		
				9 --		
10	20	18.7	112.0	10 --	ML	Sandy to Clayey Silt, dark brown, moist, stiff
				11 --		
				12 --		
				13 --		
				14 --	SP/SW	Sand, dark and medium brown, moist, very dense, fine to coarse grained, abundant gravel
15	56 50/5"	2.6	125.8	15 --		Total Depth 15 feet No Water Fill to 2½ feet
				16 --		
				17 --		
				18 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				19 --		
				20 --		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				21 --		
				22 --		
				23 --		
				24 --		
				25 --		

BORING LOG NUMBER 8

Kimley-Horn | **Date: 07/06/15** | **Elevation: 46.0'***

File No. 21003 | **Method: 8-inch diameter Hollow Stem Auger**

km

*Reference: Survey by Iacobellis & Associates, dated 10/23/12

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description Surface Conditions: Planter Area
				0		FILL: Sandy Clay to Clayey Sand, dark brown, moist, stiff, medium dense, fine grained
				1		
				2		
2.5	30	15.1	117.5			
				3	ML/CL	Sandy Silt to Sandy Clay, dark brown, moist, stiff
				4		
5	18	14.4	112.6	5	ML	Sandy to Clayey Silt, dark brown, moist, stiff
				6		
				7		
				8		
				9		
10	18	15.4	109.5	10		Sandy Silt, dark brown, moist, stiff
				11		
				12		
				13		
				14		
15	78	3.6	130.8	15	SP/SW	Sand, dark brown, moist, dense, fine to coarse grained, abundant gravel, few rocks
				16		
				17		
				18		
				19		
20	80	2.8	123.2	20		orange brown
				21		
				22		
				23		
				24		
25	76	4.4	117.4	25	SP	Sand, yellowish brown, moist, very dense, fine to medium grained, few gravel

BORING LOG NUMBER 8

Kimley-Horn

File No. 21003

km

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				26		
				27		
				28		
				29	SP/SW	Sand, dark and medium brown, moist, dense, fine to coarse grained, abundant gravel
30	80	2.6	125.8	30		Total Depth 30 feet No Water Fill to 3 feet
				31		
				32		
				33		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				34		
				35		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		

BORING LOG NUMBER 9

Kimley-Horn | **Date: 07/06/15** | **Elevation: 46.0'***

File No. 21003 | **Method: 8-inch diameter Hollow Stem Auger**

km | *Reference: Survey by Iacobellis & Associates, dated 10/23/12

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description Surface Conditions: Planter Area
				0 --		FILL: Sandy Clay to Clayey Sand, dark brown, moist, stiff, medium dense, fine grained
				1 --		
				2 --		
2.5	53	16.0	119.0			
				3 --	CL	Sandy Clay, dark brown, moist, stiff
				4 --		
5	7	12.7	SPT	5 --	ML/CL	Sandy to Sandy Clay, dark brown, moist, stiff
				6 --		
				7 --		
7.5	19	16.5	103.7		ML	Sandy Silt, dark brown, moist, stiff
				8 --		
				9 --		
10	6	13.1	SPT	10 --	CL/SC	Sandy Clay to Clayey Sand, dark brown, moist, stiff, medium dense, fine grained
				11 --		
				12 --		
12.5	54	3.1	117.5		SP/SW	Sand, dark and medium brown, moist, medium dense to dense, fine to coarse grained, abundant gravel
				13 --		
				14 --		
15	40	3.9	SPT	15 --		
				16 --		
				17 --		
17.5	35 50/4"	3.3	124.1	18 --		
				19 --		
20	60	2.6	SPT	20 --		
				21 --		
				22 --		
22.5	40 50/5"	2.5	119.0	23 --	SP	Sand, dark and yellowish brown, moist, very dense, fine to coarse grained, few gravel and rocks
				24 --		
25	60	2.4	SPT	25 --		

BORING LOG NUMBER 9

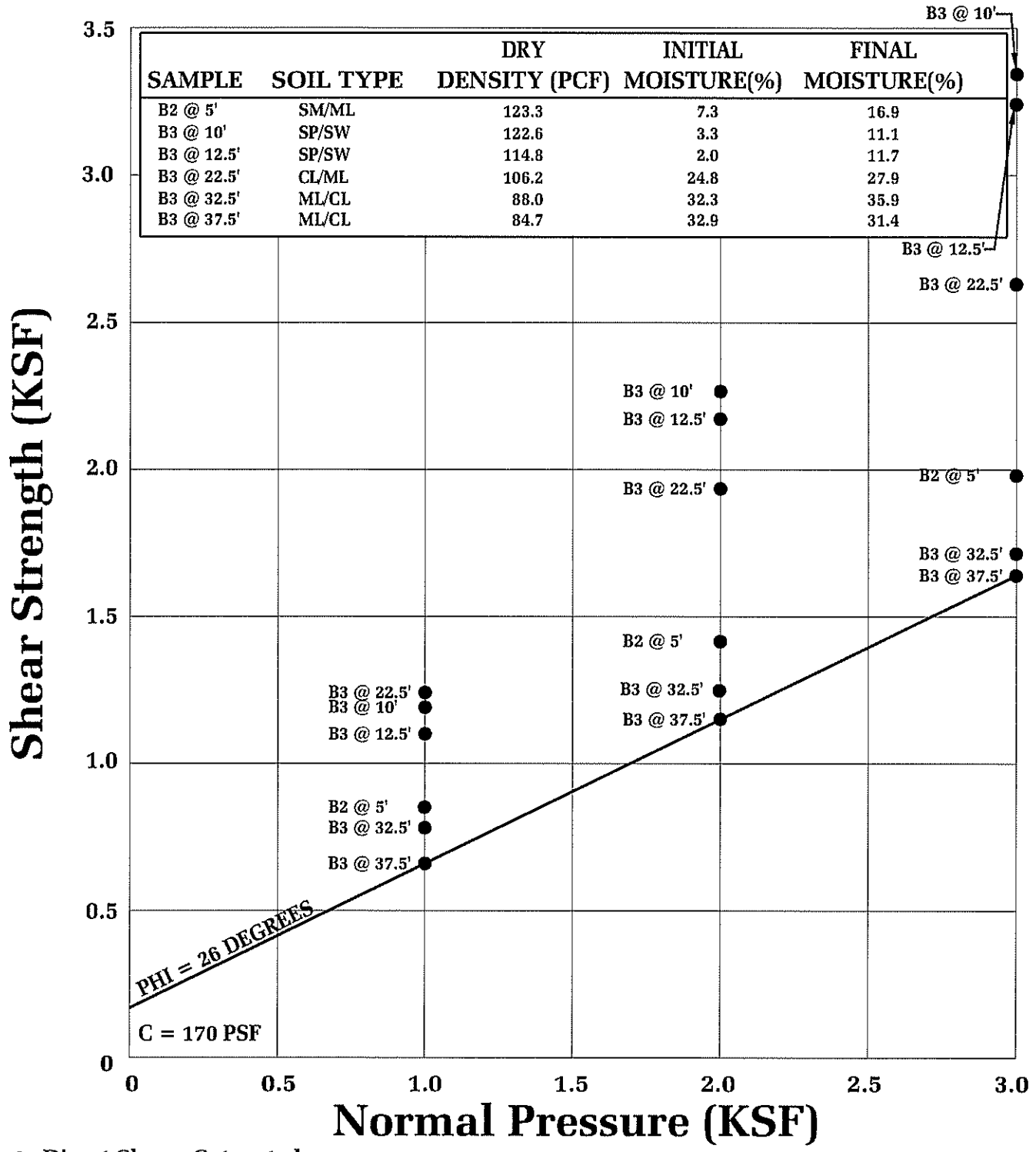
Kimley-Horn

File No. 21003

km

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				26		
				27		
27.5	37 50/3"	3.1	117.3	28		
				29		
30	43	3.1	SPT	30		
				31		
				32		
32.5	38 50/5"	1.8	Disturbed	33	SP	Sand, yellow and grayish brown, moist, very dense, fine to medium grained, minor gravel
				34		
35	59 50/5"	3.4	SPT	35		Sand, yellow and olive brown, moist, very dense, fine to medium grained
				36		
				37		
37.5	29 50/5"	3.8	106.7	38		
				39		
40	78	3.4	SPT	40		
				41		
42	47 50/5"	2.4	104.5	42		
				43		
				44		
45	61 50/2"	3.1	SPT	45		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				46		
				47		Used 8-inch diameter Hollow-Stem Auger
47.5	81 50/1"	18.6	103.5	48		140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				49		SPT=Standard Penetration Test
50	62 50/5"	17.7	SPT	50		Total Depth 50 feet Water at 49½ feet Fill to 3 feet

SAMPLE	SOIL TYPE	DRY DENSITY (PCF)	INITIAL MOISTURE(%)	FINAL MOISTURE(%)
B2 @ 5'	SM/ML	123.3	7.3	16.9
B3 @ 10'	SP/SW	122.6	3.3	11.1
B3 @ 12.5'	SP/SW	114.8	2.0	11.7
B3 @ 22.5'	CL/ML	106.2	24.8	27.9
B3 @ 32.5'	ML/CL	88.0	32.3	35.9
B3 @ 37.5'	ML/CL	84.7	32.9	31.4



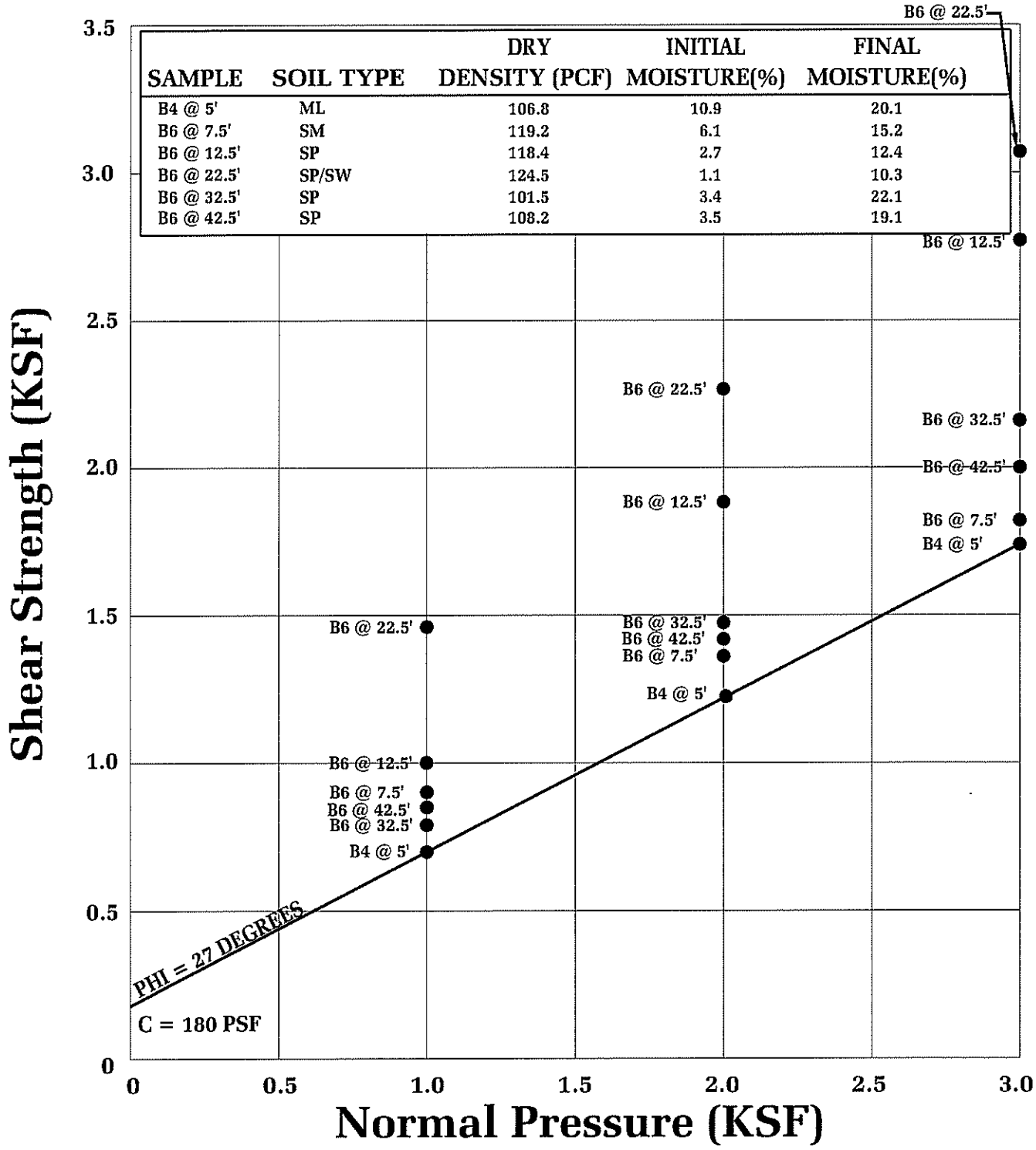
● Direct Shear, Saturated

SHEAR TEST DIAGRAM

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY-HORN

FILE NO. 21003 | PLATE: B-1



SAMPLE	SOIL TYPE	DRY DENSITY (PCF)	INITIAL MOISTURE(%)	FINAL MOISTURE(%)
B4 @ 5'	ML	106.8	10.9	20.1
B6 @ 7.5'	SM	119.2	6.1	15.2
B6 @ 12.5'	SP	118.4	2.7	12.4
B6 @ 22.5'	SP/SW	124.5	1.1	10.3
B6 @ 32.5'	SP	101.5	3.4	22.1
B6 @ 42.5'	SP	108.2	3.5	19.1

● Direct Shear, Saturated

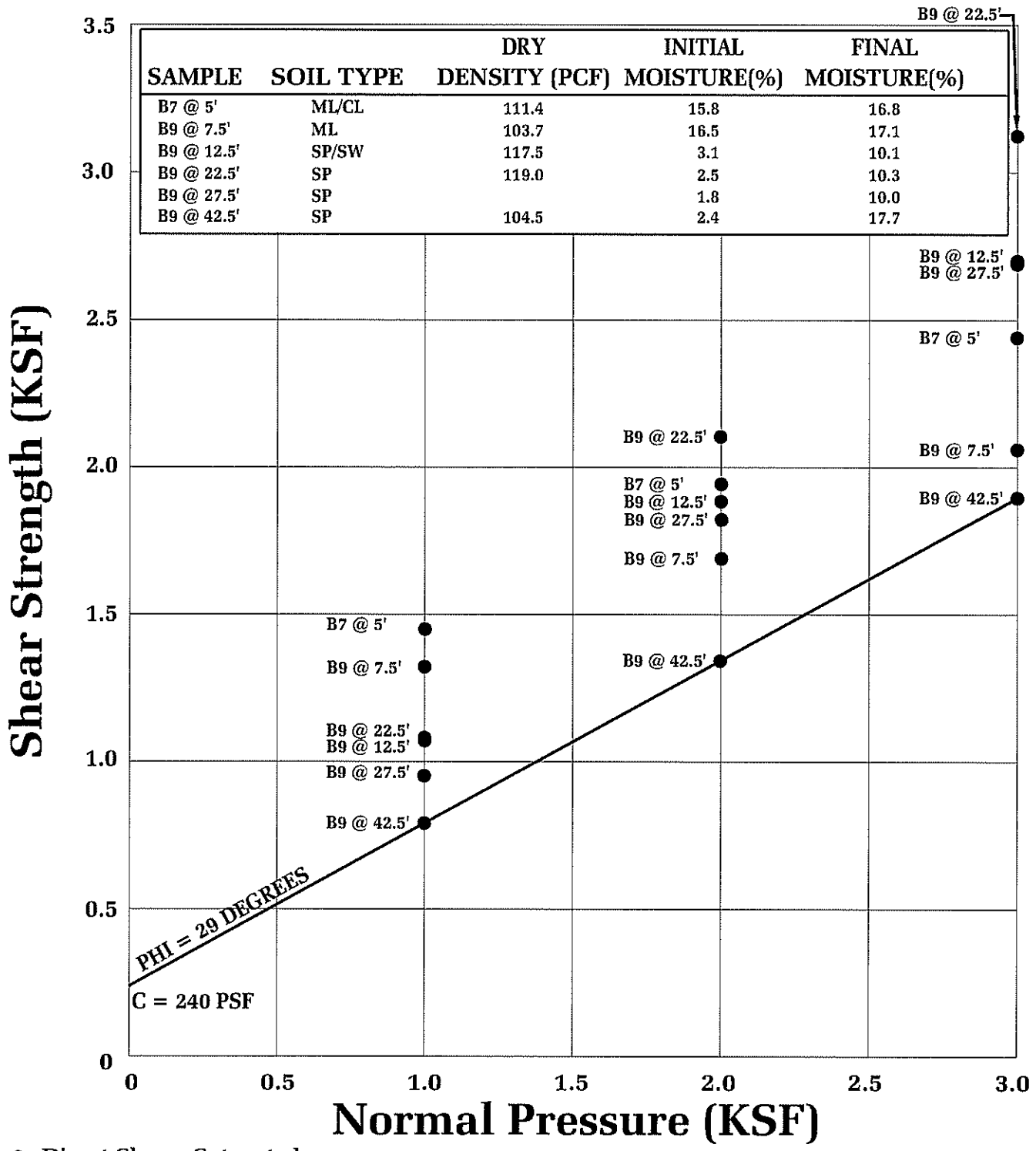
SHEAR TEST DIAGRAM

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY-HORN

FILE NO. 21003 | PLATE: B-2

SAMPLE	SOIL TYPE	DRY DENSITY (PCF)	INITIAL MOISTURE(%)	FINAL MOISTURE(%)
B7 @ 5'	ML/CL	111.4	15.8	16.8
B9 @ 7.5'	ML	103.7	16.5	17.1
B9 @ 12.5'	SP/SW	117.5	3.1	10.1
B9 @ 22.5'	SP	119.0	2.5	10.3
B9 @ 27.5'	SP		1.8	10.0
B9 @ 42.5'	SP	104.5	2.4	17.7



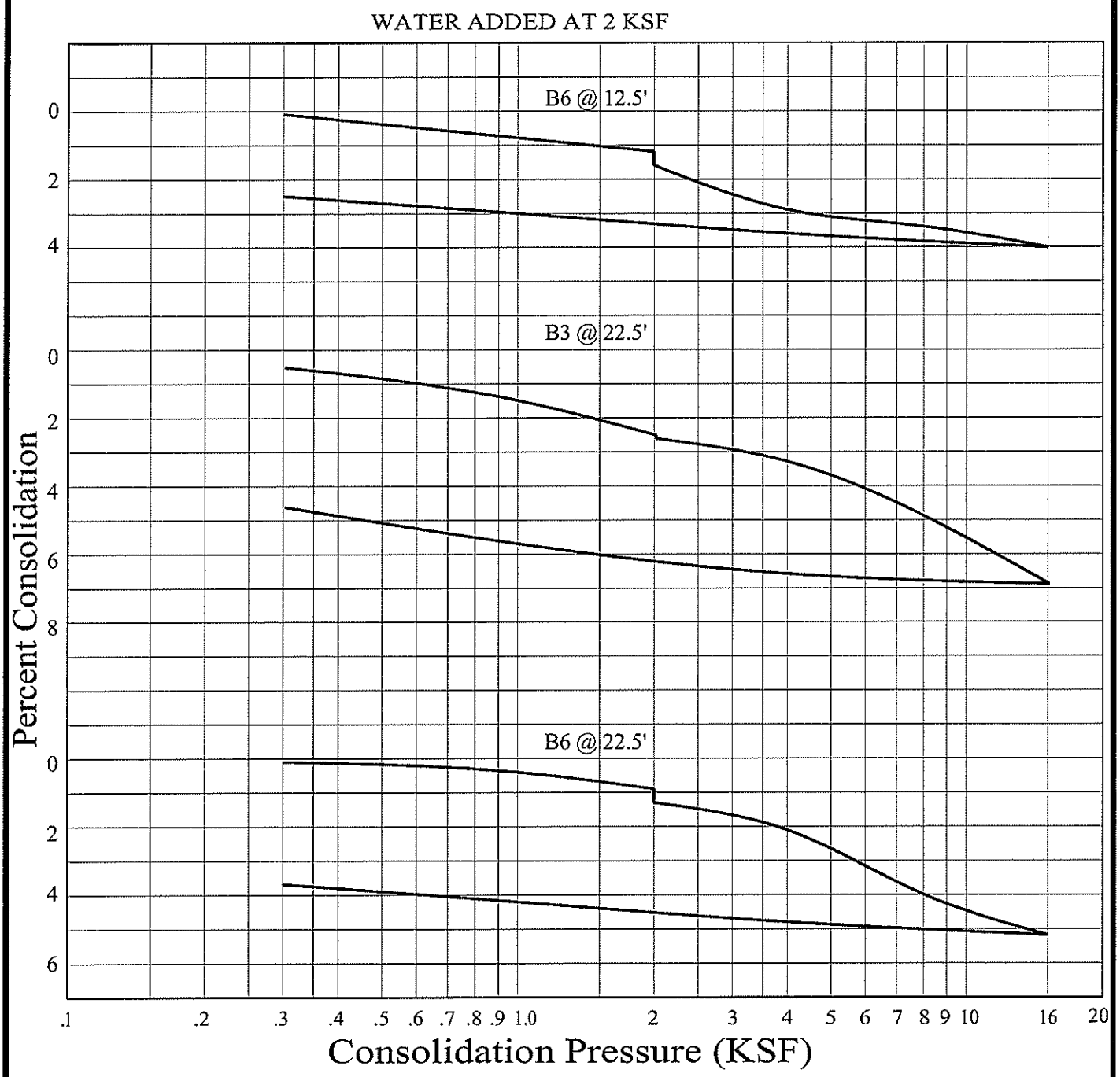
● Direct Shear, Saturated

SHEAR TEST DIAGRAM

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY-HORN

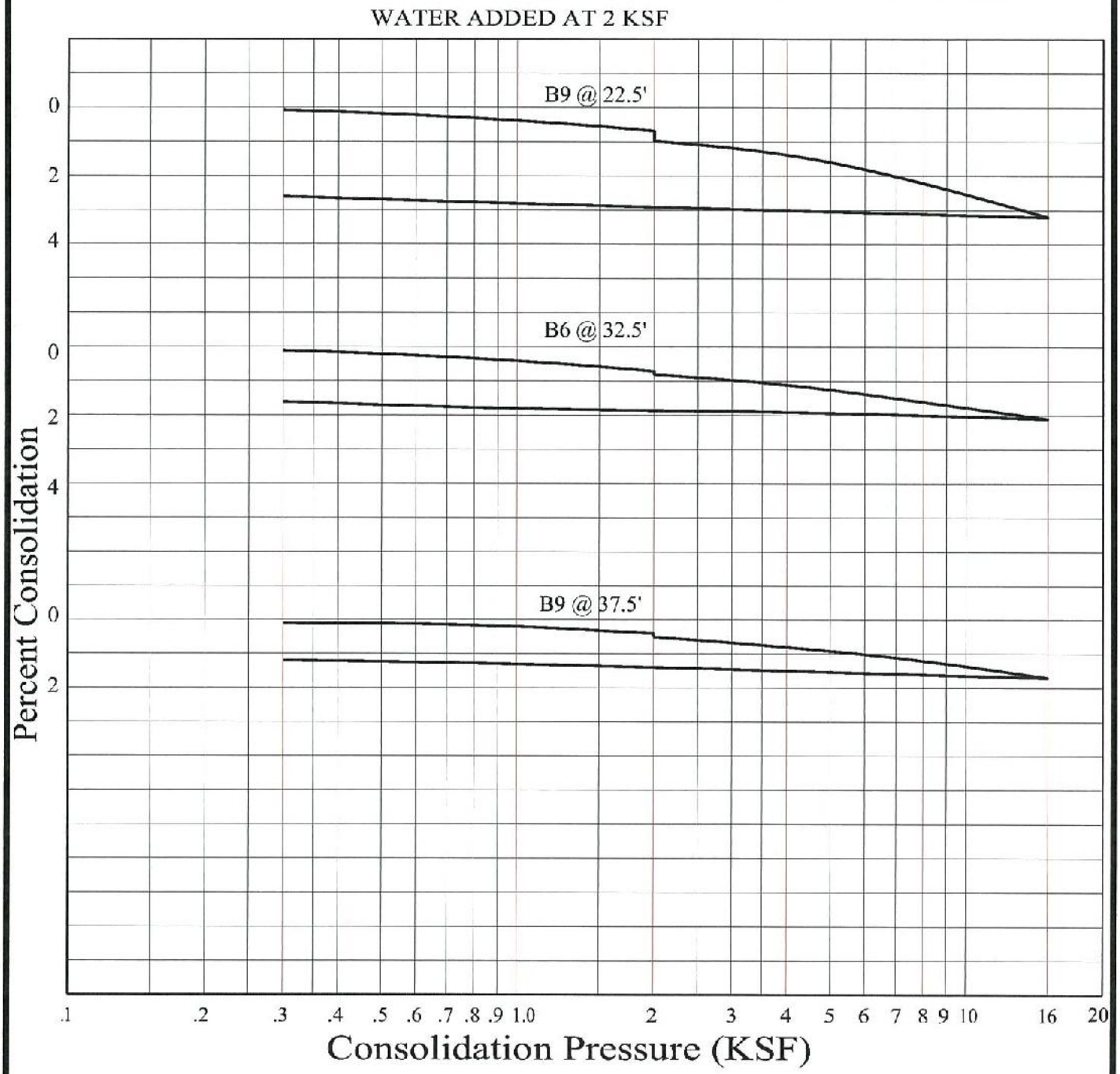
FILE NO. 21003 | PLATE: B-3



CONSOLIDATION TEST

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY-HORN	
FILE NO. 21003	PLATE: C-1

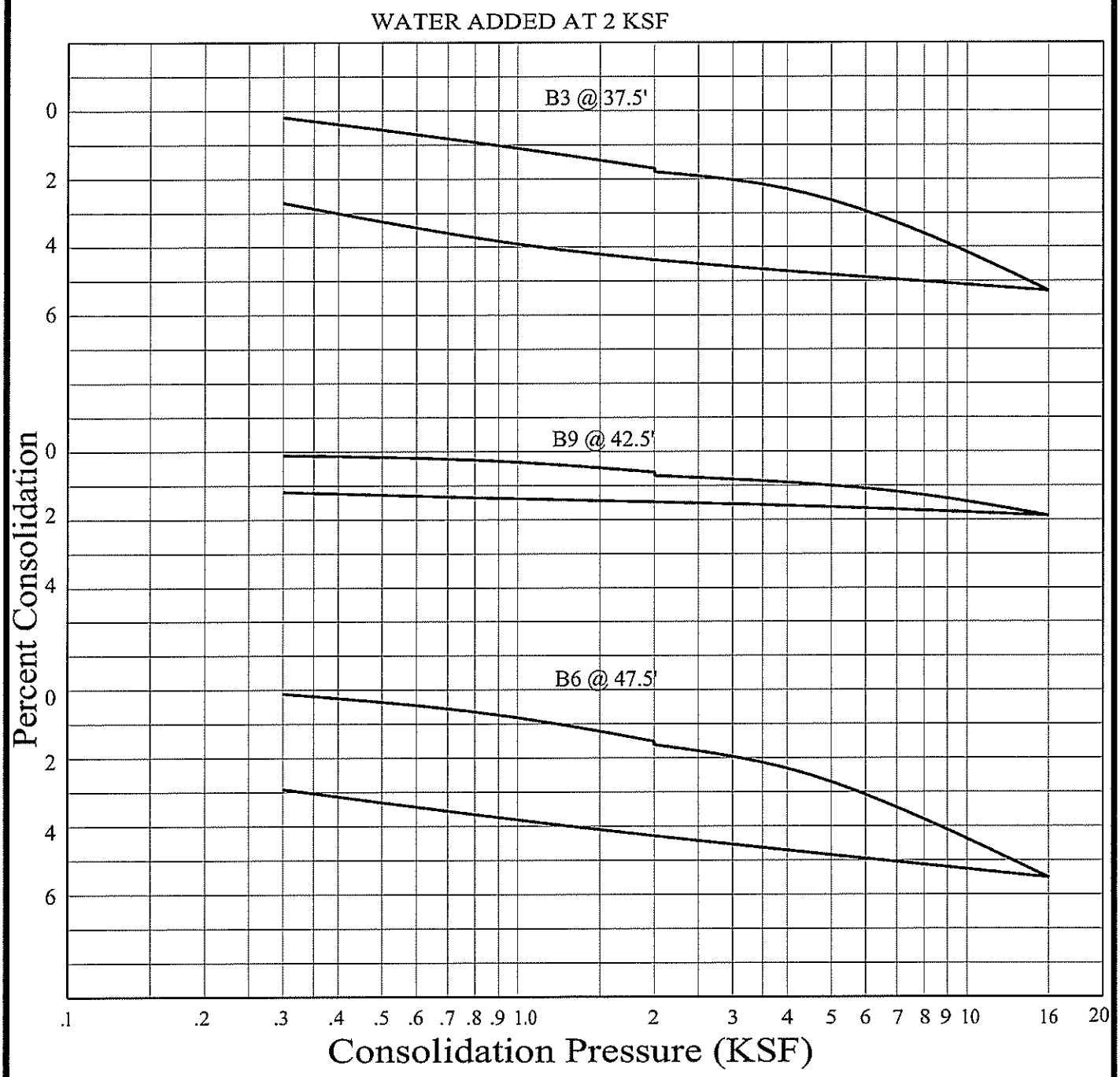


CONSOLIDATION TEST

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY HORN

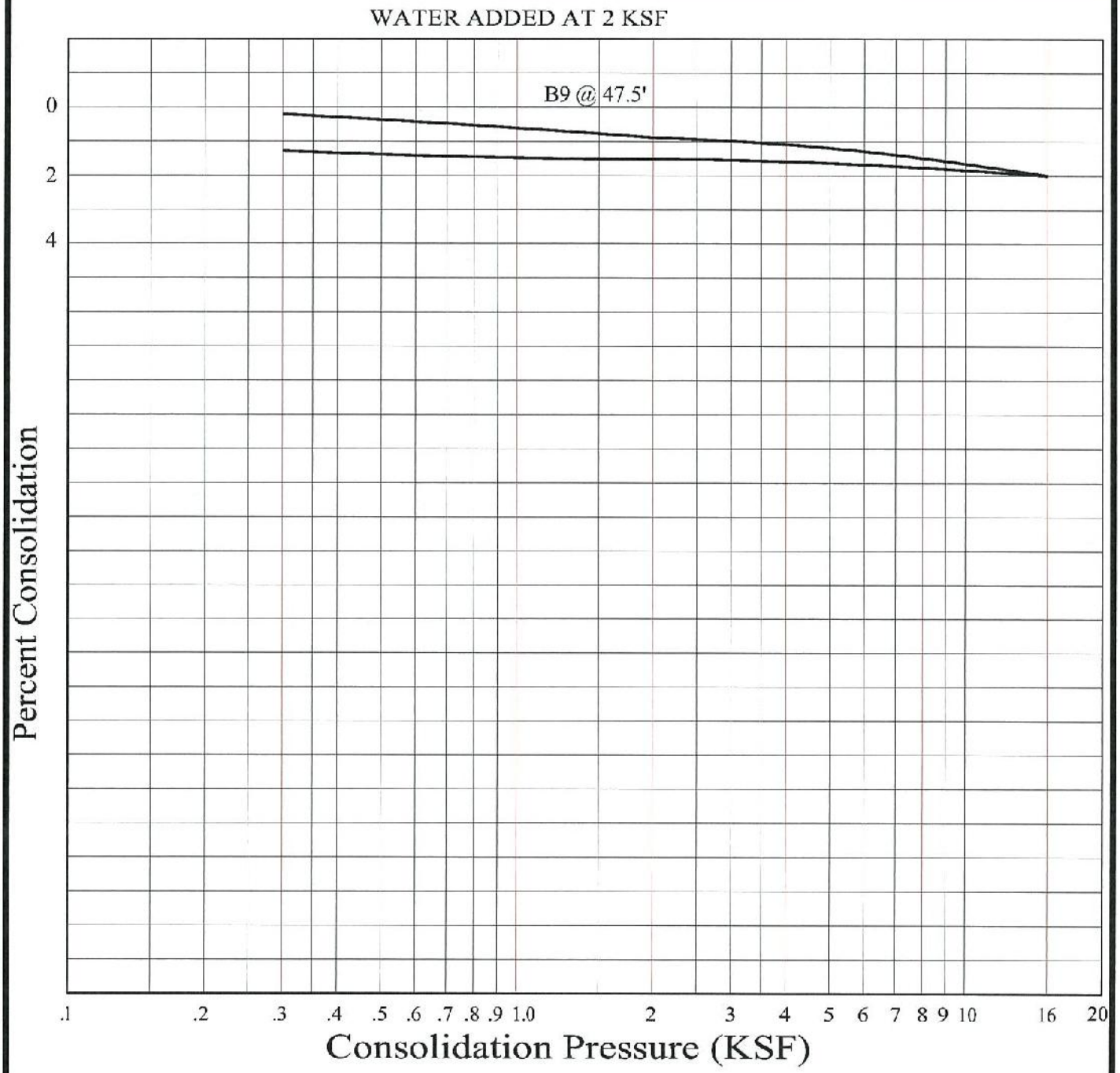
FILE NO. 21003 PLATE: C-2



CONSOLIDATION TEST

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY HORN	
FILE NO. 21003	PLATE: C-3



CONSOLIDATION TEST

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY HORN	
FILE NO. 21003	PLATE: C-4

ASTM D 1557-02

SAMPLE	B3 @ 1-5'	B6 @ 1-5'	B9 @ 1-5'
SOIL TYPE:	CL	SC/CL	SC/CL
MAXIMUM DENSITY pcf.	129.9	123.2	123.0
OPTIMUM MOISTURE %	10.3	11.8	11.4

ASTM D 4829-03

SAMPLE	B3 @ 1- 5'	B6 @ 1-5'	B9 @ 1-5'
SOIL TYPE:	CL	SC/CL	SC/CL
EXPANSION INDEX UBC STANDARD 18-2	86	98	104
EXPANSION CHARACTER	MODERATE	HIGH	HIGH

SULFATE CONTENT

SAMPLE	B3 @ 1-5'	B6 @ 1-5'	B9 @ 1-5'	B3 @ 10'	B3 @ 20'
SULFATE CONTENT: (percentage by weight)	< 0.1 %	< 0.1 %	< 0.1 %	< 0.1 %	< 0.1 %

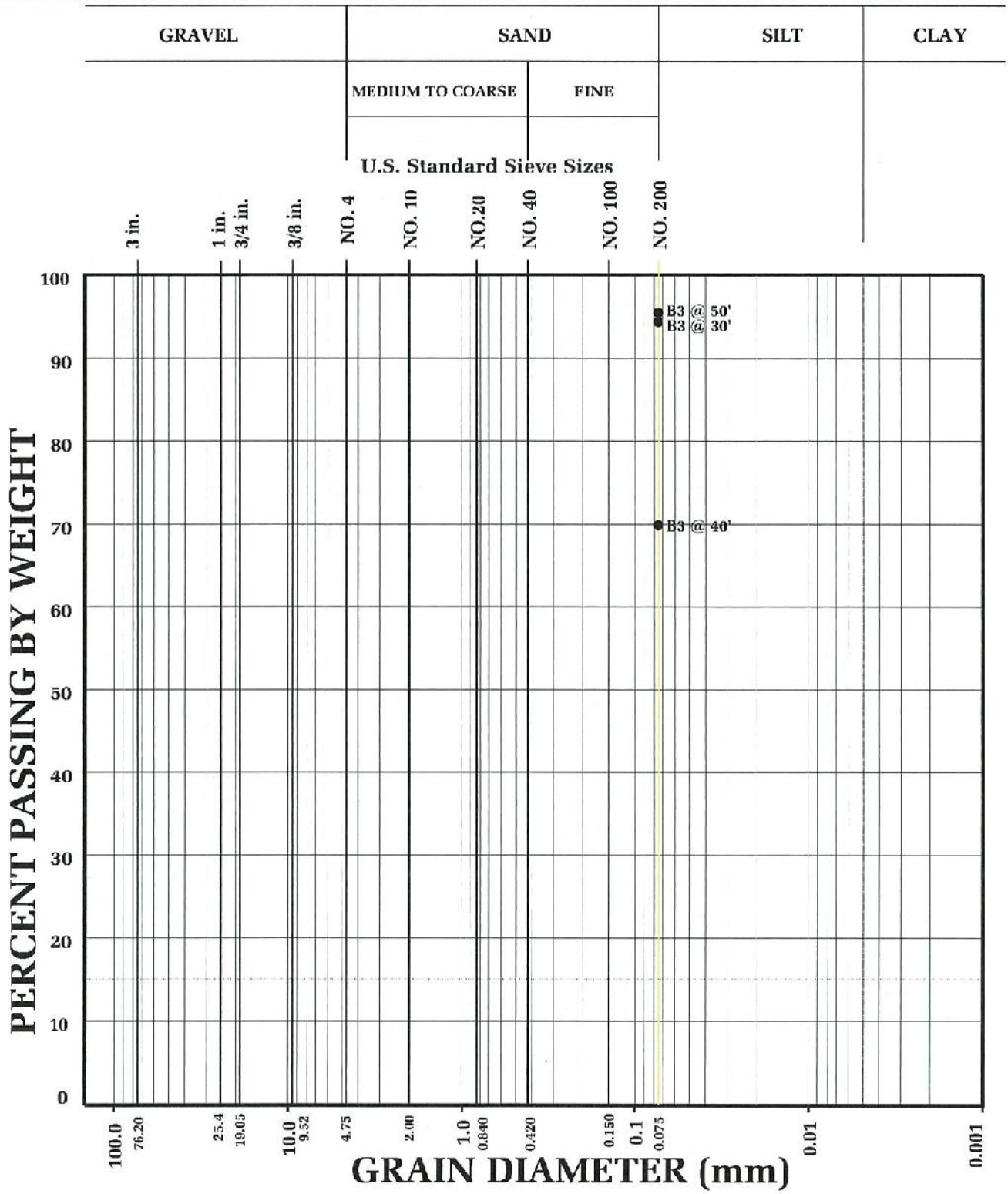
SAMPLE	B6 @ 10'	B6 @ 20'	B9 @ 10'	B9 @ 20'
SULFATE CONTENT: (percentage by weight)	< 0.1 %	< 0.1 %	< 0.1 %	< 0.1 %

COMPACTION/EXPANSION DATA SHEET

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY HORN

FILE NO. 21003 | PLATE: D

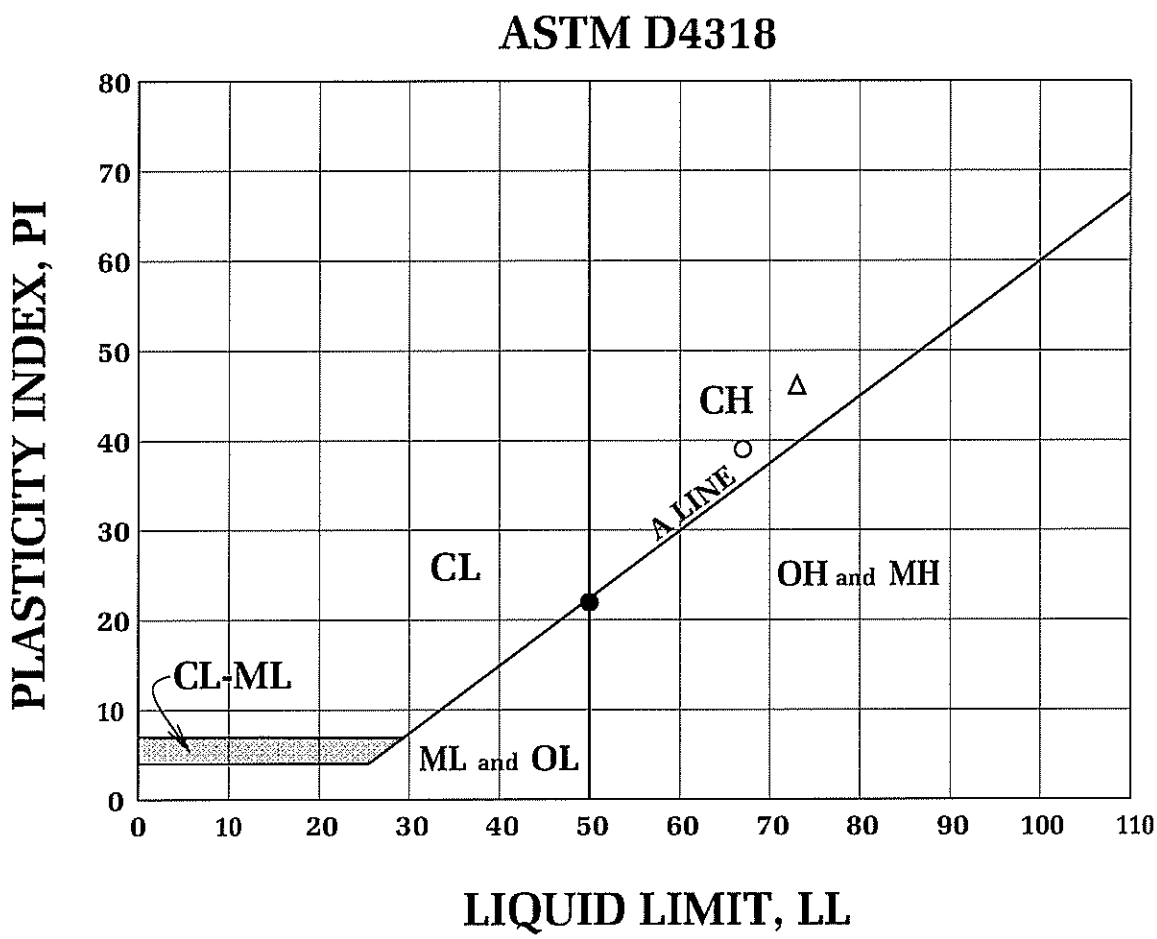


GRAIN SIZE DISTRIBUTION

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY HORN

FILE NO. 21003 | PLATE: E



BORING NUMBER	DEPTH (FEET)	TEST SYMBOL	LL	PL	PI	DESCRIPTION
B3	30	○	67	28	39	CH
B3	40	●	50	28	22	ML
B3	50	△	73	27	46	CH

ATTERBERG LIMITS DETERMINATION

Geotechnologies, Inc.
Consulting Geotechnical Engineers

KIMLEY HORN

FILE NO. 21003 | PLATE: F

Geotechnologies, Inc.

Project: Kimley-Horn
File No.: 21003
Description: Liquefaction Analysis
Boring Number: 3

EMPIRICAL ESTIMATION OF LIQUEFACTION POTENTIAL

NCEER (1996) METHOD — By Thomas F. Blake (1994-1996) — LIQ2_30.WQ1

EARTHQUAKE INFORMATION:

Earthquake Magnitude:	6.6
Peak Horiz. Acceleration (g):	0.69
Calculated Mag.Wtg.Factor:	0.724

GROUNDWATER INFORMATION:

Current Groundwater Level (ft):	50.0
Historic Highest Groundwater Level* (ft):	13.0
Unit Wt. Water (pcf):	62.4

* Based on California Geological Survey Seismic Hazard Evaluation Report

ENERGY & ROD CORRECTIONS:

Energy Correction (CE) for N60:	1.30
Rod Len.Corr.(CR)(0-no or 1-yes):	1.0
Bore Dia. Corr. (CB):	1.00
Sampler Corr. (CS):	1.20
Use Ksigma (0 or 1):	1.0

LIQUEFACTION CALCULATIONS:

Depth to Base (ft)	Total Unit Wt. (pcf)	Current Water Level (0 or 1)	FIELD SPT (N)	Depth of SPT (ft)	Liq.Sus. (0 or 1)	-200 (%)	Est. Dr (%)	CN Factor	Corrected $(N_1)_{60}$	Resist. CRR	rd Factor	Induced CSR	Liquefac. Safe.Fact.
1.0	131.8	0	NA	1.0	0	0.0		2.000	0.0	~	0.998	0.324	~
2.0	131.8	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.993	0.323	~
3.0	131.8	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.989	0.321	~
4.0	131.8	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.984	0.320	~
5.0	131.8	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.979	0.318	~
6.0	131.8	0	23.0	5.0	0	0.0		1.889	50.8	~	0.975	0.317	~
7.0	131.8	0	23.0	5.0	0	0.0		1.889	50.8	~	0.970	0.315	~
8.0	126.7	0	31.0	10.0	0	0.0		1.307	47.4	~	0.966	0.314	~
9.0	126.7	0	31.0	10.0	0	0.0		1.307	47.4	~	0.961	0.312	~
10.0	126.7	0	31.0	10.0	0	0.0		1.307	47.4	~	0.957	0.311	~
11.0	126.7	0	31.0	10.0	0	0.0		1.307	47.4	~	0.952	0.309	~
12.0	126.7	0	31.0	10.0	0	0.0		1.307	47.4	~	0.947	0.308	~
13.0	117.1	0	31.0	10.0	0	0.0		1.307	47.4	~	0.943	0.306	~
14.0	117.1	0	31.0	10.0	1	0.0	110	1.307	47.4	Infin.	0.938	0.305	Non-Liq.
15.0	117.1	0	31.0	10.0	1	0.0	110	1.307	47.4	Infin.	0.934	0.303	Non-Liq.
16.0	117.1	0	89.0	15.0	1	0.0	170	1.070	119.8	Infin.	0.929	0.302	Non-Liq.
17.0	117.1	0	89.0	15.0	1	0.0	170	1.070	119.8	Infin.	0.925	0.300	Non-Liq.
18.0	121.8	0	89.0	15.0	1	0.0	170	1.070	119.8	Infin.	0.920	0.299	Non-Liq.
19.0	121.8	0	89.0	15.0	1	0.0	170	1.070	119.8	Infin.	0.915	0.297	Non-Liq.
20.0	121.8	0	89.0	15.0	1	0.0	170	1.070	119.8	Infin.	0.911	0.296	Non-Liq.
21.0	121.8	0	69.0	20.0	1	0.0	140	0.930	89.6	Infin.	0.906	0.294	Non-Liq.
22.0	121.8	0	69.0	20.0	1	0.0	140	0.930	89.6	Infin.	0.902	0.293	Non-Liq.
23.0	132.6	0	35.0	25.0	1	0.0	93	0.829	43.2	Infin.	0.897	0.291	Non-Liq.
24.0	132.6	0	35.0	25.0	1	0.0	93	0.829	43.2	Infin.	0.893	0.290	Non-Liq.
25.0	132.6	0	35.0	25.0	1	0.0	93	0.829	43.2	Infin.	0.888	0.289	Non-Liq.
26.0	132.6	0	35.0	25.0	1	0.0	93	0.829	43.2	Infin.	0.883	0.287	Non-Liq.
27.0	132.6	0	35.0	25.0	1	0.0	93	0.829	43.2	Infin.	0.879	0.286	Non-Liq.
28.0	114.2	0	28.0	30.0	1	34.4	79	0.756	39.9	Infin.	0.874	0.284	Non-Liq.
29.0	114.2	0	28.0	30.0	1	34.4	79	0.756	39.9	Infin.	0.870	0.283	Non-Liq.
30.0	114.2	0	28.0	30.0	1	34.4	79	0.756	39.9	Infin.	0.865	0.281	Non-Liq.
31.0	114.2	0	28.0	30.0	1	34.4	79	0.756	39.9	Infin.	0.861	0.280	Non-Liq.
32.0	114.2	0	28.0	30.0	1	34.4	79	0.756	39.9	Infin.	0.856	0.278	Non-Liq.
33.0	116.4	0	28.0	30.0	1	34.4	79	0.756	39.9	Infin.	0.851	0.277	Non-Liq.
34.0	116.4	0	28.0	30.0	1	34.4	79	0.756	39.9	Infin.	0.847	0.275	Non-Liq.
35.0	116.4	0	28.0	30.0	1	34.4	79	0.756	39.9	Infin.	0.842	0.274	Non-Liq.
36.0	116.4	0	27.0	35.0	1	34.4	74	0.703	36.5	Infin.	0.838	0.272	Non-Liq.
37.0	116.4	0	27.0	35.0	1	34.4	74	0.703	36.5	Infin.	0.833	0.271	Non-Liq.
38.0	112.6	0	27.0	35.0	1	34.4	74	0.703	36.5	Infin.	0.829	0.269	Non-Liq.
39.0	112.6	0	27.0	35.0	1	34.4	74	0.703	36.5	Infin.	0.824	0.268	Non-Liq.
40.0	112.6	0	27.0	35.0	1	34.4	74	0.703	36.5	Infin.	0.819	0.266	Non-Liq.
41.0	112.6	0	29.0	40.0	1	69.9	73	0.661	36.9	Infin.	0.815	0.265	Non-Liq.
42.0	112.6	0	29.0	40.0	1	69.9	73	0.661	36.9	Infin.	0.810	0.263	Non-Liq.
43.0	112.6	0	29.0	40.0	1	69.9	73	0.661	36.9	Infin.	0.806	0.262	Non-Liq.
44.0	112.6	0	29.0	40.0	1	69.9	73	0.661	36.9	Infin.	0.801	0.260	Non-Liq.
45.0	112.6	0	29.0	40.0	1	69.9	73	0.661	36.9	Infin.	0.797	0.259	Non-Liq.
46.0	112.6	0	32.0	45.0	1	95.5	74	0.625	38.2	Infin.	0.792	0.257	Non-Liq.
47.0	112.6	0	32.0	45.0	1	95.5	74	0.625	38.2	Infin.	0.787	0.256	Non-Liq.
48.0	112.6	0	32.0	45.0	1	95.5	74	0.625	38.2	Infin.	0.783	0.254	Non-Liq.
49.0	112.6	0	32.0	45.0	1	95.5	74	0.625	38.2	Infin.	0.778	0.253	Non-Liq.
50.0	112.6	0	31.0	50.0	1	95.5	70	0.600	36.0	Infin.	0.774	0.251	Non-Liq.

Geotechnologies, Inc.

Project: Kimley-Horn
File No.: 21003
Description: Liquefaction Analysis
Boring Number: 6

EMPIRICAL ESTIMATION OF LIQUEFACTION POTENTIAL

NCEER (1996) METHOD — By Thomas F. Blake (1994-1996) — LIQ2_30.WQ1

EARTHQUAKE INFORMATION:

Earthquake Magnitude:	6.6
Peak Horiz. Acceleration (g):	0.69
Calculated Mag.Wtg.Factor:	0.724

GROUNDWATER INFORMATION:

Current Groundwater Level (ft):	50.0
Historic Highest Groundwater Level* (ft):	13.0
Unit Wt. Water (pcf):	62.4

* Based on California Geological Survey Seismic Hazard Evaluation Report

ENERGY & ROD CORRECTIONS:

Energy Correction (CE) for N60:	1.30
Rod Len.Corr.(CR)(0-no or 1-yes):	1.0
Bore Dia. Corr. (CB):	1.00
Sampler Corr. (CS):	1.20
Use Ksigma (0 or 1):	1.0

LIQUEFACTION CALCULATIONS:

Depth to Base (ft)	Total Unit Wt. (pcf)	Current Water Level (0 or 1)	FIELD SPT (N)	Depth of SPT (ft)	Liq.Sus. (0 or 1)	-200 (%)	Est. Dr (%)	CN Factor	Corrected $(N_1)_{60}$	Resist. CRR	rd Factor	Induced CSR	Liquefac. Safe.Fact.
1.0	134.3	0	NA	1.0	0	0.0		2.000	0.0	~	0.998	0.324	~
2.0	134.3	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.993	0.323	~
3.0	134.3	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.989	0.321	~
4.0	134.3	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.984	0.320	~
5.0	134.3	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.979	0.318	~
6.0	134.3	0	9.0	5.0	0	0.0		1.871	19.7	~	0.975	0.317	~
7.0	134.3	0	9.0	5.0	0	0.0		1.871	19.7	~	0.970	0.315	~
8.0	126.5	0	32.0	10.0	0	0.0		1.298	48.6	~	0.966	0.314	~
9.0	126.5	0	32.0	10.0	0	0.0		1.298	48.6	~	0.961	0.312	~
10.0	126.5	0	32.0	10.0	0	0.0		1.298	48.6	~	0.957	0.311	~
11.0	126.5	0	32.0	10.0	0	0.0		1.298	48.6	~	0.952	0.309	~
12.0	126.5	0	32.0	10.0	0	0.0		1.298	48.6	~	0.947	0.308	~
13.0	121.6	0	32.0	10.0	0	0.0		1.298	48.6	~	0.943	0.306	~
14.0	121.6	0	32.0	10.0	1	0.0	111	1.298	48.6	Infin.	0.938	0.305	Non-Liq.
15.0	121.6	0	32.0	10.0	1	0.0	111	1.298	48.6	Infin.	0.934	0.303	Non-Liq.
16.0	119.6	0	82.0	15.0	1	0.0	163	1.062	109.6	Infin.	0.929	0.302	Non-Liq.
17.0	119.6	0	82.0	15.0	1	0.0	163	1.062	109.6	Infin.	0.925	0.300	Non-Liq.
18.0	119.6	0	82.0	15.0	1	0.0	163	1.062	109.6	Infin.	0.920	0.299	Non-Liq.
19.0	119.6	0	82.0	15.0	1	0.0	163	1.062	109.6	Infin.	0.915	0.297	Non-Liq.
20.0	119.6	0	82.0	15.0	1	0.0	163	1.062	109.6	Infin.	0.911	0.296	Non-Liq.
21.0	125.9	0	100.0	20.0	1	0.0	168	0.925	129.1	Infin.	0.906	0.294	Non-Liq.
22.0	125.9	0	100.0	20.0	1	0.0	168	0.925	129.1	Infin.	0.902	0.293	Non-Liq.
23.0	125.9	0	100.0	20.0	1	0.0	168	0.925	129.1	Infin.	0.897	0.291	Non-Liq.
24.0	125.9	0	100.0	20.0	1	0.0	168	0.925	129.1	Infin.	0.893	0.290	Non-Liq.
25.0	125.9	0	100.0	20.0	1	0.0	168	0.925	129.1	Infin.	0.888	0.289	Non-Liq.
26.0	125.9	0	87.0	25.0	1	0.0	146	0.826	107.1	Infin.	0.883	0.287	Non-Liq.
27.0	125.9	0	87.0	25.0	1	0.0	146	0.826	107.1	Infin.	0.879	0.286	Non-Liq.
28.0	106.4	0	59.0	30.0	1	0.0	114	0.758	69.8	Infin.	0.874	0.284	Non-Liq.
29.0	106.4	0	59.0	30.0	1	0.0	114	0.758	69.8	Infin.	0.870	0.283	Non-Liq.
30.0	106.4	0	59.0	30.0	1	0.0	114	0.758	69.8	Infin.	0.865	0.281	Non-Liq.
31.0	106.4	0	59.0	30.0	1	0.0	114	0.758	69.8	Infin.	0.861	0.280	Non-Liq.
32.0	106.4	0	59.0	30.0	1	0.0	114	0.758	69.8	Infin.	0.856	0.278	Non-Liq.
33.0	104.9	0	59.0	30.0	1	0.0	114	0.758	69.8	Infin.	0.851	0.277	Non-Liq.
34.0	104.9	0	59.0	30.0	1	0.0	114	0.758	69.8	Infin.	0.847	0.275	Non-Liq.
35.0	104.9	0	59.0	35.0	1	0.0	109	0.709	65.2	Infin.	0.842	0.274	Non-Liq.
36.0	104.9	0	74.0	35.0	1	0.0	122	0.709	81.8	Infin.	0.838	0.272	Non-Liq.
37.0	104.9	0	74.0	35.0	1	0.0	122	0.709	81.8	Infin.	0.833	0.271	Non-Liq.
38.0	107.2	0	74.0	35.0	1	0.0	122	0.709	81.8	Infin.	0.829	0.269	Non-Liq.
39.0	107.2	0	74.0	35.0	1	0.0	122	0.709	81.8	Infin.	0.824	0.268	Non-Liq.
40.0	107.2	0	74.0	35.0	1	0.0	122	0.709	81.8	Infin.	0.819	0.266	Non-Liq.
41.0	112.0	0	87.0	40.0	1	0.0	127	0.668	90.7	Infin.	0.815	0.265	Non-Liq.
42.0	112.0	0	87.0	40.0	1	0.0	127	0.668	90.7	Infin.	0.810	0.263	Non-Liq.
43.0	112.0	0	87.0	40.0	1	0.0	127	0.668	90.7	Infin.	0.806	0.262	Non-Liq.
44.0	112.0	0	87.0	40.0	1	0.0	127	0.668	90.7	Infin.	0.801	0.260	Non-Liq.
45.0	112.0	0	87.0	40.0	1	0.0	127	0.668	90.7	Infin.	0.797	0.259	Non-Liq.
46.0	112.0	0	74.0	45.0	1	0.0	113	0.632	73.0	Infin.	0.792	0.257	Non-Liq.
47.0	112.0	0	74.0	45.0	1	0.0	113	0.632	73.0	Infin.	0.787	0.256	Non-Liq.
48.0	128.0	0	45.0	50.0	1	0.0	85	0.600	42.1	Infin.	0.783	0.254	Non-Liq.
49.0	128.0	0	45.0	50.0	1	0.0	85	0.600	42.1	Infin.	0.778	0.253	Non-Liq.
50.0	128.0	0	45.0	50.0	1	0.0	85	0.600	42.1	Infin.	0.774	0.251	Non-Liq.

Geotechnologies, Inc.

Project: Kimley-Horn
File No.: 21003
Description: Liquefaction Analysis
Boring Number: 9

EMPIRICAL ESTIMATION OF LIQUEFACTION POTENTIAL

NCEER (1996) METHOD — By Thomas F. Blake (1994-1996) — LIQ2_30.WQ1

EARTHQUAKE INFORMATION:

Earthquake Magnitude:	6.6
Peak Horiz. Acceleration (g):	0.69
Calculated Mag.Wtg.Factor:	0.724

GROUNDWATER INFORMATION:

Current Groundwater Level (ft):	50.0
Historic Highest Groundwater Level* (ft):	13.0
Unit Wt. Water (pcf):	62.4

* Based on California Geological Survey Seismic Hazard Evaluation Report

ENERGY & ROD CORRECTIONS:

Energy Correction (CE) for N60:	1.30
Rod Len.Corr.(CR)(0-no or 1-yes):	1.0
Bore Dia. Corr. (CB):	1.00
Sampler Corr. (CS):	1.20
Use Ksigma (0 or 1):	1.0

LIQUEFACTION CALCULATIONS:

Depth to Base (ft)	Total Unit Wt. (pcf)	Current Water Level (0 or 1)	FIELD SPT (N)	Depth of SPT (ft)	Liq.Sus. (0 or 1)	-200 (%)	Est. Dr (%)	CN Factor	Corrected $(N_1)_{60}$	Resist. CRR	rd Factor	Induced CSR	Liquefac. Safe.Fact.
1.0	138.0	0	NA	1.0	0	0.0		2.000	0.0	~	0.998	0.324	~
2.0	138.0	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.993	0.323	~
3.0	138.0	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.989	0.321	~
4.0	138.0	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.984	0.320	~
5.0	138.0	0	NA	1.0	0	0.0		#######	#VALUE!	~	0.979	0.318	~
6.0	138.0	0	7.0	5.0	0	0.0		1.846	15.1	~	0.975	0.317	~
7.0	138.0	0	7.0	5.0	0	0.0		1.846	15.1	~	0.970	0.315	~
8.0	120.8	0	7.0	5.0	0	0.0		1.846	15.1	~	0.966	0.314	~
9.0	120.8	0	7.0	5.0	0	0.0		1.846	15.1	~	0.961	0.312	~
10.0	120.8	0	7.0	5.0	0	0.0		1.846	15.1	~	0.957	0.311	~
11.0	120.8	0	6.0	10.0	0	0.0		1.292	9.1	~	0.952	0.309	~
12.0	120.8	0	6.0	10.0	0	0.0		1.292	9.1	~	0.947	0.308	~
13.0	121.2	0	40.0	15.0	0	0.0		1.063	53.5	~	0.943	0.306	~
14.0	121.2	0	40.0	15.0	1	0.0	114	1.063	53.5	Infin.	0.938	0.305	Non-Liq.
15.0	121.2	0	40.0	15.0	1	0.0	114	1.063	53.5	Infin.	0.934	0.303	Non-Liq.
16.0	121.2	0	40.0	15.0	1	0.0	114	1.063	53.5	Infin.	0.929	0.302	Non-Liq.
17.0	121.2	0	40.0	15.0	1	0.0	114	1.063	53.5	Infin.	0.925	0.300	Non-Liq.
18.0	128.3	0	40.0	15.0	1	0.0	114	1.063	53.5	Infin.	0.920	0.299	Non-Liq.
19.0	128.3	0	40.0	15.0	1	0.0	114	1.063	53.5	Infin.	0.915	0.297	Non-Liq.
20.0	128.3	0	40.0	15.0	1	0.0	114	1.063	53.5	Infin.	0.911	0.296	Non-Liq.
21.0	128.3	0	60.0	20.0	1	0.0	129	0.921	77.1	Infin.	0.906	0.294	Non-Liq.
22.0	128.3	0	60.0	20.0	1	0.0	129	0.921	77.1	Infin.	0.902	0.293	Non-Liq.
23.0	122.0	0	60.0	25.0	1	0.0	121	0.823	73.6	Infin.	0.897	0.291	Non-Liq.
24.0	122.0	0	60.0	25.0	1	0.0	121	0.823	73.6	Infin.	0.893	0.290	Non-Liq.
25.0	122.0	0	60.0	25.0	1	0.0	121	0.823	73.6	Infin.	0.888	0.289	Non-Liq.
26.0	122.0	0	60.0	25.0	1	0.0	121	0.823	73.6	Infin.	0.883	0.287	Non-Liq.
27.0	122.0	0	60.0	25.0	1	0.0	121	0.823	73.6	Infin.	0.879	0.286	Non-Liq.
28.0	120.9	0	60.0	25.0	1	0.0	121	0.823	73.6	Infin.	0.874	0.284	Non-Liq.
29.0	120.9	0	60.0	25.0	1	0.0	121	0.823	73.6	Infin.	0.870	0.283	Non-Liq.
30.0	120.9	0	60.0	25.0	1	0.0	121	0.823	73.6	Infin.	0.865	0.281	Non-Liq.
31.0	120.9	0	43.0	30.0	1	0.0	97	0.753	50.5	Infin.	0.861	0.280	Non-Liq.
32.0	120.9	0	43.0	30.0	1	0.0	97	0.753	50.5	Infin.	0.856	0.278	Non-Liq.
33.0	110.8	0	95.0	35.0	1	0.0	138	0.701	103.9	Infin.	0.851	0.277	Non-Liq.
34.0	110.8	0	95.0	35.0	1	0.0	138	0.701	103.9	Infin.	0.847	0.275	Non-Liq.
35.0	110.8	0	95.0	35.0	1	0.0	138	0.701	103.9	Infin.	0.842	0.274	Non-Liq.
36.0	110.8	0	95.0	35.0	1	0.0	138	0.701	103.9	Infin.	0.838	0.272	Non-Liq.
37.0	110.8	0	95.0	35.0	1	0.0	138	0.701	103.9	Infin.	0.833	0.271	Non-Liq.
38.0	110.8	0	95.0	35.0	1	0.0	138	0.701	103.9	Infin.	0.829	0.269	Non-Liq.
39.0	110.8	0	95.0	35.0	1	0.0	138	0.701	103.9	Infin.	0.824	0.268	Non-Liq.
40.0	110.8	0	95.0	35.0	1	0.0	138	0.701	103.9	Infin.	0.819	0.266	Non-Liq.
41.0	110.8	0	78.0	40.0	1	0.0	120	0.660	80.3	Infin.	0.815	0.265	Non-Liq.
42.0	110.8	0	78.0	40.0	1	0.0	120	0.660	80.3	Infin.	0.810	0.263	Non-Liq.
43.0	107.1	0	78.0	40.0	1	0.0	120	0.660	80.3	Infin.	0.806	0.262	Non-Liq.
44.0	107.1	0	78.0	40.0	1	0.0	120	0.660	80.3	Infin.	0.801	0.260	Non-Liq.
45.0	107.1	0	78.0	40.0	1	0.0	120	0.660	80.3	Infin.	0.797	0.259	Non-Liq.
46.0	107.1	0	100.0	45.0	1	0.0	130	0.626	97.6	Infin.	0.792	0.257	Non-Liq.
47.0	107.1	0	100.0	45.0	1	0.0	130	0.626	97.6	Infin.	0.787	0.256	Non-Liq.
48.0	122.7	0	100.0	45.0	1	0.0	130	0.626	97.6	Infin.	0.783	0.254	Non-Liq.
49.0	122.7	0	100.0	45.0	1	0.0	130	0.626	97.6	Infin.	0.778	0.253	Non-Liq.
50.0	122.7	0	100.0	50.0	1	0.0	125	0.600	93.6	Infin.	0.774	0.251	Non-Liq.

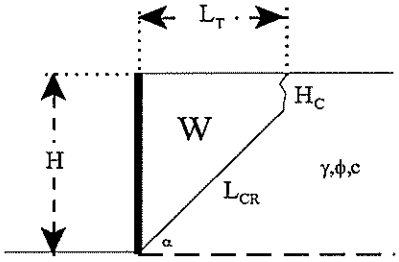
Geotechnologies, Inc.

Project: Kimley-Horn
File No.: 21003
Description: Temporary Shoring Walls up to 15 feet High

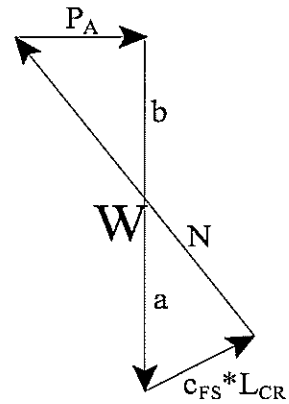
Shoring Design with Level Backfill
(Vector Analysis)

Input:

Shoring Height	(H)	15.00 feet
Unit Weight of Retained Soils	(γ)	125.0 pcf
Friction Angle of Retained Soils	(ϕ)	27.0 degrees
Cohesion of Retained Soils	(c)	180.0 psf
Factor of Safety	(FS)	1.25
Factored Parameters:	(ϕ_{FS})	22.2 degrees
	(c_{FS})	144.0 psf



Failure Angle (α) degrees	Height of Tension Crack (H_C) feet	Area of Wedge (A) feet^2	Weight of Wedge (W) lbs/lineal foot	Length of Failure Plane (L_{CR}) feet	a lbs/lineal foot	b lbs/lineal foot	Active Pressure (P_A) lbs/lineal foot
40	4.5	122	15217.2	16.3	7082.9	8134.3	2615.3
41	4.4	118	14797.2	16.2	6689.6	8107.6	2763.7
42	4.2	115	14374.2	16.1	6327.3	8046.9	2900.8
43	4.1	112	13951.8	16.0	5993.5	7958.3	3026.8
44	4.0	108	13532.1	15.9	5685.7	7846.4	3142.0
45	3.9	105	13117.0	15.7	5401.7	7715.3	3246.9
46	3.8	102	12707.5	15.6	5139.3	7568.3	3341.7
47	3.7	98	12304.4	15.4	4896.4	7408.0	3426.6
48	3.7	95	11908.1	15.3	4671.3	7236.8	3502.0
49	3.6	92	11518.9	15.1	4462.4	7056.4	3568.1
50	3.6	89	11136.8	14.9	4268.1	6868.6	3625.0
51	3.5	86	10761.9	14.8	4087.2	6674.7	3673.0
52	3.5	83	10394.1	14.6	3918.4	6475.7	3712.1
53	3.5	80	10033.2	14.5	3760.6	6272.6	3742.6
54	3.4	77	9679.1	14.3	3612.9	6066.2	3764.6
55	3.4	75	9331.4	14.1	3474.3	5857.1	3778.0
56	3.4	72	8990.1	14.0	3344.1	5646.0	3783.0
57	3.4	69	8654.8	13.8	3221.5	5433.3	3779.5
58	3.4	67	8325.2	13.6	3105.8	5219.4	3767.6
59	3.5	64	8001.1	13.5	2996.4	5004.7	3747.1
60	3.5	61	7682.2	13.3	2892.8	4789.4	3718.2
61	3.5	59	7368.2	13.1	2794.3	4573.8	3680.5
62	3.5	56	7058.8	13.0	2700.6	4358.2	3634.1
63	3.6	54	6753.8	12.8	2611.1	4142.7	3578.8
64	3.6	52	6452.8	12.6	2525.4	3927.4	3514.4
65	3.7	49	6155.5	12.5	2443.0	3712.5	3440.6



Design Equations (Vector Analysis):

$a = c_{FS}*L_{CR}*\sin(90+\phi_{FS})/\sin(\alpha-\phi_{FS})$

$b = W-a$

$P_A = b*\tan(\alpha-\phi_{FS})$

$EFP = 2*P_A/H^2$

Maximum Active Pressure Resultant

$P_{A,\,max}$ 3783.0 lbs/lineal foot

Equivalent Fluid Pressure (per lineal foot of shoring)

$EFP = 2*P_A/H^2$

EFP 33.6 pcf

Design Shoring for an Equivalent Fluid Pressure: 34 pcf

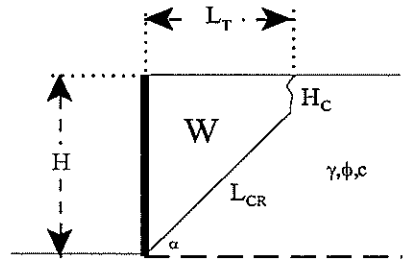
Geotechnologies, Inc.

Project: Kimley-Horn
File No.: 21003
Description: Temporary Shoring Walls (15 to 20 feet High)

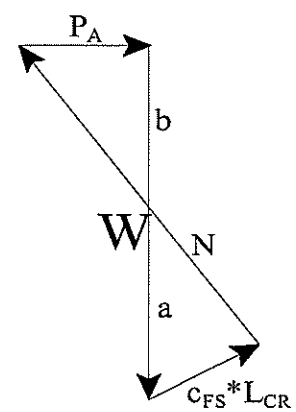
Shoring Design with Level Backfill
(Vector Analysis)

Input:

Shoring Height	(H)	20.00 feet
Unit Weight of Retained Soils	(γ)	125.0 pcf
Friction Angle of Retained Soils	(ϕ)	27.0 degrees
Cohesion of Retained Soils	(c)	180.0 psf
Factor of Safety	(FS)	1.25
Factored Parameters:	(ϕ_{FS})	22.2 degrees
	(c_{FS})	144.0 psf



Failure Angle (α) degrees	Height of Tension Crack (H_C) feet	Area of Wedge (A) feet^2	Weight of Wedge (W) lbs/lineal foot	Length of Failure Plane (L_{CR}) feet	a lbs/lineal foot	b lbs/lineal foot	Active Pressure (P_A) lbs/lineal foot
40	4.5	226	28252.0	24.0	10471.7	17780.3	5716.6
41	4.4	219	27379.3	23.8	9839.4	17539.9	5979.0
42	4.2	212	26521.5	23.6	9265.5	17256.0	6220.4
43	4.1	205	25680.8	23.3	8743.6	16937.2	6441.7
44	4.0	199	24858.3	23.0	8267.6	16590.6	6643.6
45	3.9	192	24054.5	22.8	7832.6	16222.0	6826.8
46	3.8	186	23269.8	22.5	7434.0	15835.8	6992.1
47	3.7	180	22503.8	22.3	7067.9	15435.9	7140.0
48	3.7	174	21756.3	22.0	6731.0	15025.3	7271.0
49	3.6	168	21026.7	21.7	6420.2	14606.5	7385.7
50	3.6	163	20314.4	21.5	6132.9	14181.5	7484.4
51	3.5	157	19618.9	21.2	5866.8	13752.1	7567.6
52	3.5	152	18939.4	21.0	5619.7	13319.7	7635.4
53	3.5	146	18275.2	20.7	5389.9	12885.3	7688.2
54	3.4	141	17625.6	20.5	5175.8	12449.8	7726.2
55	3.4	136	16990.0	20.2	4975.9	12014.0	7749.4
56	3.4	131	16367.5	20.0	4788.9	11578.6	7758.0
57	3.4	126	15757.7	19.8	4613.6	11144.0	7752.0
58	3.4	121	15159.7	19.5	4449.1	10710.6	7731.4
59	3.5	117	14573.0	19.3	4294.2	10278.8	7696.0
60	3.5	112	13997.0	19.1	4148.2	9848.7	7645.8
61	3.5	107	13430.9	18.9	4010.3	9420.6	7580.7
62	3.5	103	12874.4	18.6	3879.7	8994.7	7500.2
63	3.6	99	12326.7	18.4	3755.8	8570.9	7404.3
64	3.6	94	11787.3	18.2	3637.8	8149.5	7292.5
65	3.7	90	11255.8	18.0	3525.3	7730.5	7164.3



Design Equations (Vector Analysis):

$a = c_{FS}*L_{CR}*\sin(90+\phi_{FS})/\sin(\alpha-\phi_{FS})$

$b = W-a$

$P_A = b*\tan(\alpha-\phi_{FS})$

$EFP = 2*P_A/H^2$

Maximum Active Pressure Resultant

$P_{A,\,max}$ 7758.0 lbs/lineal foot

Equivalent Fluid Pressure (per lineal foot of shoring)

$EFP = 2*P_A/H^2$

EFP 38.8 pcf

Design Shoring for an Equivalent Fluid Pressure: 39 pcf

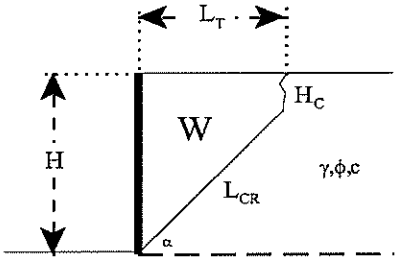
Geotechnologies, Inc.

Project: Kimley-Horn
File No.: 21003
Description: Temporary Shoring Walls (20 to 35 feet High)

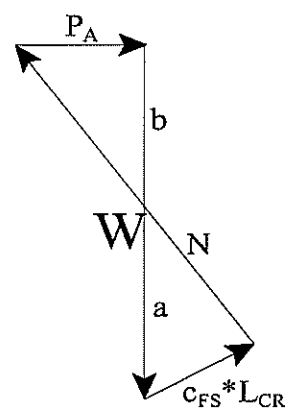
Shoring Design with Level Backfill
(Vector Analysis)

Input:

Shoring Height	(H)	35.00 feet
Unit Weight of Retained Soils	(γ)	125.0 pcf
Friction Angle of Retained Soils	(ϕ)	27.0 degrees
Cohesion of Retained Soils	(c)	180.0 psf
Factor of Safety	(FS)	1.25
Factored Parameters:	(ϕ_{FS})	22.2 degrees
	(c_{FS})	144.0 psf



Failure Angle (α) degrees	Height of Tension Crack (H_C) feet	Area of Wedge (A) feet^2	Weight of Wedge (W) lbs/lineal foot	Length of Failure Plane (L_{CR}) feet	a lbs/lineal foot	b lbs/lineal foot	Active Pressure (P_A) lbs/lineal foot
40	4.5	718	89701.8	47.4	20638.2	69063.6	22204.7
41	4.4	694	86695.2	46.7	19288.7	67406.5	22977.5
42	4.2	670	83787.5	46.0	18080.4	65707.1	23686.1
43	4.1	648	80974.8	45.3	16993.9	63980.9	24333.7
44	4.0	626	78252.8	44.6	16013.3	62239.5	24923.2
45	3.9	605	75617.0	44.0	15125.2	60491.8	25457.2
46	3.8	585	73063.1	43.4	14318.1	58745.0	25938.0
47	3.7	565	70586.6	42.8	13582.5	57004.1	26367.6
48	3.7	545	68183.3	42.2	12910.0	55273.3	26747.8
49	3.6	527	65849.3	41.6	12293.6	53555.7	27080.1
50	3.6	509	63580.5	41.0	11727.2	51853.4	27366.0
51	3.5	491	61373.4	40.5	11205.4	50168.0	27606.6
52	3.5	474	59224.4	40.0	10723.6	48500.8	27802.7
53	3.5	457	57130.3	39.5	10277.9	46852.4	27955.4
54	3.4	441	55088.0	39.0	9864.6	45223.4	28065.0
55	3.4	425	53094.4	38.5	9480.7	43613.7	28132.1
56	3.4	409	51146.9	38.1	9123.4	42023.5	28156.9
57	3.4	394	49242.8	37.6	8790.2	40452.6	28139.6
58	3.4	379	47379.5	37.2	8478.9	38900.6	28080.0
59	3.5	364	45554.9	36.8	8187.6	37367.2	27977.9
60	3.5	350	43766.6	36.4	7914.6	35852.0	27832.9
61	3.5	336	42012.5	36.0	7658.2	34354.3	27644.4
62	3.5	322	40290.6	35.6	7417.0	32873.6	27411.8
63	3.6	309	38599.1	35.2	7189.7	31409.4	27134.0
64	3.6	295	36936.1	34.9	6975.1	29960.9	26810.0
65	3.7	282	35299.8	34.5	6772.1	28527.7	26438.4



Design Equations (Vector Analysis):

$a = c_{FS}*L_{CR}*\sin(90+\phi_{FS})/\sin(\alpha-\phi_{FS})$

$b = W-a$

$P_A = b*\tan(\alpha-\phi_{FS})$

$EFP = 2*P_A/H^2$

Maximum Active Pressure Resultant

$P_{A,\,max}$ 28156.9 lbs/lineal foot

Equivalent Fluid Pressure (per lineal foot of shoring)

$EFP = 2*P_A/H^2$

EFP 46.0 pcf

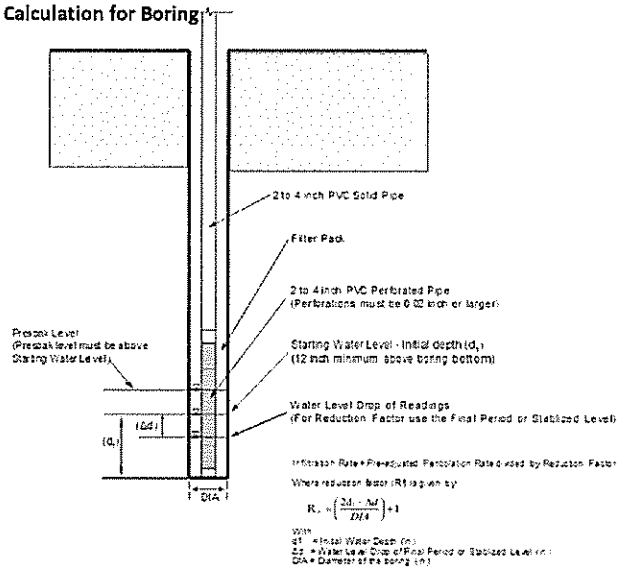
Design Shoring for an Equivalent Fluid Pressure: 46 pcf

Test Date: 8-Jul-15
File No. 21003
File Name : Kimley-Horn

Percolation Rate Calculation for Boring

Testing Boring Number		1
Boring Diameter (DIA)		8 inches
Depth of Boring		15 feet
Ground surface elevation		49.5 feet
Length of Casing (dc)		15 feet
Top of Casing elevation		49.5 feet
finish floor elevation	na	feet
Elevation Bottom of Casing		34.5 feet
Pre-soak Time		4 hours
Measured By	H.C.	

Terms
Initial water depth (d1) =dc-di
Water level drop (Δd) = di-df



Reading Number	Clock Time	Elapsed Time	Water Measurement (d_i) and (d_f)	Percolation Rate	Preadjusted Percolation Rate		Initial Water depth (d1)	Water level Drop (Δd)	Reduction Factor (Rf)	Percolation Rate	Percolation Rate Variation
							d1 = dc-di	Δd = di-df	Rf = ($2d_1$-Δd/diam)+1	Preadjust perc rate/Rf	
		Min	feet	ft/min	in/hour		in	in	Unitless	in/hour	Percent
1	13:00		9.00				72				
	13:05	5	13.75	0.95	684.00			57	11.9	57.6	
2	13:09		9.00				72				
	13:14	5	13.50	0.90	648.00			54	12.3	52.9	-8.9
3	13:19		9.00				72				
	13:24	5	13.25	0.85	612.00			51	12.6	48.5	-9.1
4	13:30		9.00				72				
	13:35	5	13.30	0.86	619.20			51.6	12.6	49.3	1.7
5	13:38		9.00				72				
	13:43	5	13.10	0.82	590.40			49.2	12.9	45.9	-7.4
6	13:48		9.00				72				
	13:53	5	13.10	0.82	590.40			49.2	12.9	45.9	0.0
7	13:58		9.00				72				
	14:03	5	13.00	0.80	576.00			48	13.0	44.3	-3.7
8	14:08		9.00				72				
	14:13	5	12.90	0.78	561.60			46.8	13.2	42.7	-3.7

Lowest Percolation Rate Measured **42.7 in/hr**

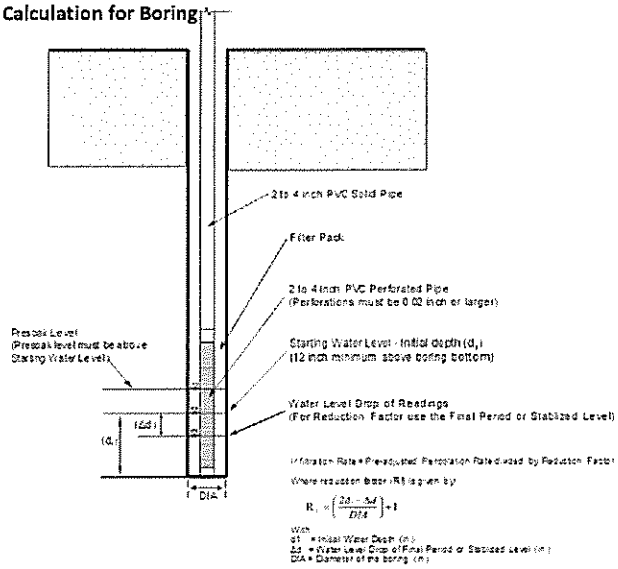
Note: Calculation based on County of Los Angeles, Administrative Manual, Low Impact Development Best Management Practice Guideline for Design, Investigation, and Reporting, dated 12/31/14.
LA County Minimum 0.3 inches per hour

Test Date: 8-Jul-15
File No. 21003
File Name : Kimley-Horn

Percolation Rate Calculation for Boring

Testing Boring Number		2
Boring Diameter (DIA)		8 inches
Depth of Boring		30 feet
Ground surface elevation		49.2 feet
Length of Casing (dc)		30 feet
Top of Casing elevation		49.2 feet
finish floor elevation	na	feet
Elevation Bottom of Casing		19.2 feet
Pre-soak Time		4 hours
Measured By	H.C.	

Terms
Initial water depth (d1) =dc-di
Water level drop (Δd) = di-df



Infiltration Rate = Preadjusted Percolation Rate divided by Reduction Factor

Where reduction factor (Rf) is given by

$$R_f = \left[\frac{2d_i - \Delta d}{DIA}\right] + 1$$

With
d_i = Initial Water Depth (in)
Δd = Water Level Drop of Final Period or Stabized Level (in)
DIA = Diameter of the boring (in)

Reading Number	Clock Time	Elapsed Time	Water Measurement (d_i) and (d_f)	Percolation Rate	Preadjusted Percolation Rate		Initial Water depth (d1)	Water level Drop (Δd)	Reduction Factor (Rf)	Percolation Rate	Percolation Rate Variation
							d1 = dc-di	Δd = di-df	Rf = ($2d_i$-Δd/diam)+1	Preadjust perc rate/Rf	
		Min	feet	ft/min	in/hour		in	in	Unitless	in/hour	Percent
1	14:30		9.00				252				
	14:35	5	23.25	2.85	2052.00			171	42.6	48.1	
2	14:39		9.00				252				
	14:44	5	23.00	2.80	2016.00			168	43.0	46.9	-2.7
3	14:47		9.00				252				
	14:52	5	22.90	2.78	2001.60			166.8	43.2	46.4	-1.1
4	14:55		9.00				252				
	15:00	5	22.80	2.76	1987.20			165.6	43.3	45.9	-1.1
5	15:05		9.00				252				
	15:10	5	22.75	2.75	1980.00			165	43.4	45.6	-0.5
6	15:13		9.00				252				
	15:18	5	22.50	2.70	1944.00			162	43.8	44.4	-2.7
7	15:22		9.00				252				
	15:27	5	22.60	2.72	1958.40			163.2	43.6	44.9	1.1
8	15:32		9.00				252				
	15:37	5	22.50	2.70	1944.00			162	43.8	44.4	-1.1

Lowest Percolation Rate Measured **44.4 in/hr**

Note: Calculation based on County of Los Angeles, Administrative Manual, Low Impact Development Best Management Practice Guideline for Design, Investigation, and Reporting, dated 12/31/14.
LA County Minimum 0.3 inches per hour

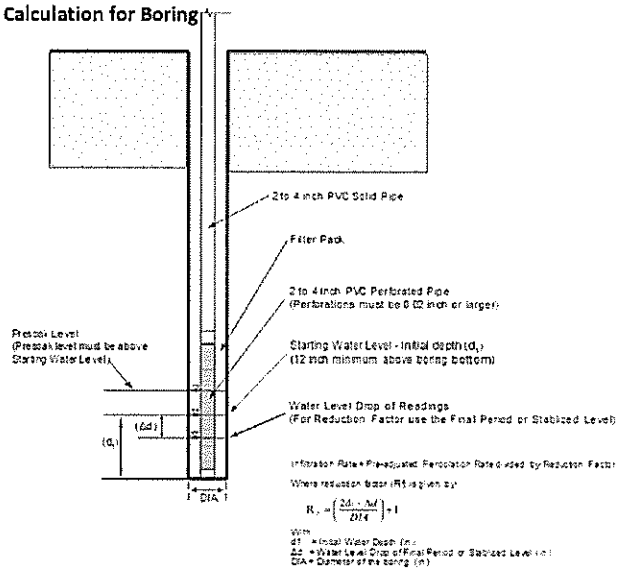
Test Date: 7-Jul-15
File No. 21003
File Name : Kimley-Horn

Percolation Rate Calculation for Boring

Testing Boring Number	4	
Boring Diameter (DIA)	8	inches
Depth of Boring	15	feet
Ground surface elevation	49.9	feet
Length of Casing (dc)	15	feet
Top of Casing elevation	49.9	feet
finish floor elevation	na	feet
Elevation Bottom of Casing	34.9	feet
Pre-soak Time	4	hours
Measured By	H.C.	

Terms

Initial water depth (d1) =dc-di
Water level drop (Δd) = di-df



Reading Number	Clock Time	Elapsed Time	Water Measurement (d_i) and (d_f)	Percolation Rate	Preadjusted Percolation Rate		Initial Water depth (d1)	Water level Drop (Δd)	Reduction Factor (Rf)	Percolation Rate	Percolation Rate Variation
							d1= dc-di	Δd = di-df	Rf = ($2d_1$-Δd/diam)+1	Preadjust perc rate/Rf	
		Min	feet	ft/min	in/hour		In	In	Unitless	In/hour	Percent
1	12:45		9.00				72				
	12:50	5	14.00	1.00	720.00			60	11.5	62.6	
2	12:54		9.00				72				
	12:59	5	13.90	0.98	705.60			58.8	11.7	60.6	-3.4
3	13:05		9.00				72				
	13:10	5	13.75	0.95	684.00			57	11.9	57.6	-5.2
4	13:13		9.00				72				
	13:18	5	13.50	0.90	648.00			54	12.3	52.9	-8.9
5	13:22		9.00				72				
	13:27	5	13.60	0.92	662.40			55.2	12.1	54.7	3.4
6	13:30		9.00				72				
	13:35	5	13.50	0.90	648.00			54	12.3	52.9	-3.5
7	13:39		9.00				72				
	13:44	5	13.40	0.88	633.60			52.8	12.4	51.1	-3.5
8	13:47		9.00				72				
	13:52	5	13.30	0.86	619.20			51.6	12.6	49.3	-3.6

Lowest Percolation Rate Measured **49.3 in/hr**

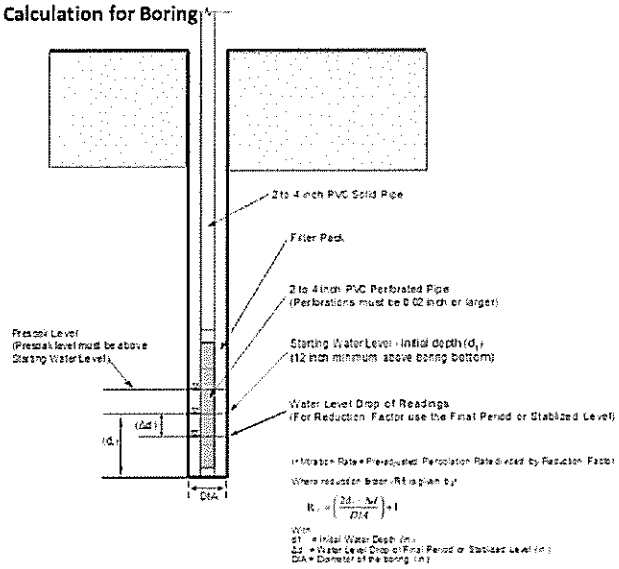
Note: Calculation based on County of Los Angeles, Administrative Manual, Low Impact Development Best Management Practice Guideline for Design, Investigation, and Reporting, dated 12/31/14.
LA County Minimum 0.3 inches per hour

Test Date: 7-Jul-15
File No. 21003
File Name : Kimley-Horn

Percolation Rate Calculation for Boring

Testing Boring Number		5
Boring Diameter (DIA)		8 inches
Depth of Boring		30 feet
Ground surface elevation		46.8 feet
Length of Casing (dc)		30 feet
Top of Casing elevation		46.8 feet
finish floor elevation	na	feet
Elevation Bottom of Casing		16.8 feet
Pre-soak Time		4 hours
Measured By	H.C.	

Terms
Initial water depth (d1) =dc-di
Water level drop (Δd) = di-df



Reading Number	Clock Time	Elapsed Time	Water Measurement (d_i) and (d_f)	Percolation Rate	Preadjusted Percolation Rate		Initial Water depth (d1)	Water level Drop (Δd)	Reduction Factor (Rf)	Percolation Rate	Percolation Rate Variation
							d1 = dc-di	Δd = di-df	Rf = ($2d_1$-Δd/diam)+1	Preadjust perc rate/Rf	
		Min	feet	ft/min	in/hour		in	in	Unitless	in/hour	Percent
1	14:05		9.00				252				
	14:10	5	25.50	3.30	2376.00			198	39.3	60.5	
2	14:13		9.00				252				
	14:18	5	26.25	3.45	2484.00			207	38.1	65.2	7.1
3	14:22		9.00				252				
	14:27	5	26.00	3.40	2448.00			204	38.5	63.6	-2.5
4	14:33		9.00				252				
	14:38	5	25.80	3.36	2419.20			201.6	38.8	62.4	-2.0
5	14:41		9.00				252				
	14:46	5	25.60	3.32	2390.40			199.2	39.1	61.1	-2.0
6	14:50		9.00				252				
	14:55	5	25.40	3.28	2361.60			196.8	39.4	59.9	-2.0
7	14:59		9.00				252				
	15:04	5	25.50	3.30	2376.00			198	39.3	60.5	1.0
8	15:07		9.00				252				
	15:12	5	25.30	3.26	2347.20			195.6	39.6	59.3	-2.0

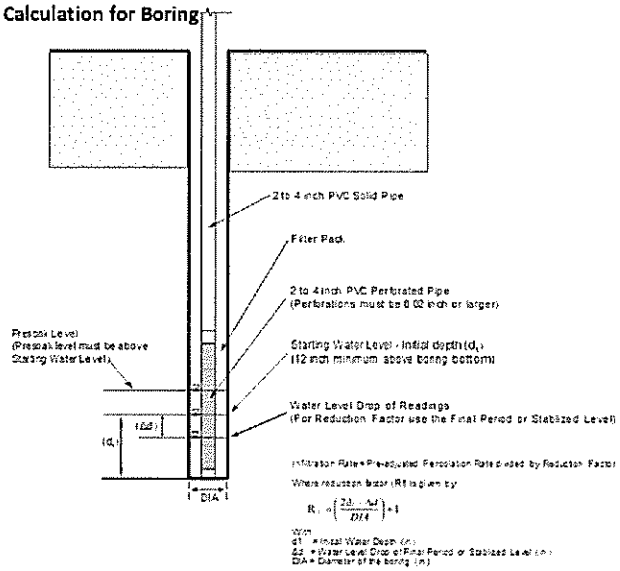
Lowest Percolation Rate Measured **59.3 in/hr**

Note: Calculation based on County of Los Angeles, Administrative Manual, Low Impact Development Best Management Practice Guideline for Design, Investigation, and Reporting, dated 12/31/14.
LA County Minimum 0.3 inches per hour

Test Date: 6-Jul-15
File No. 21003
File Name : Kimley-Horn

Percolation Rate Calculation for Boring

Testing Boring Number		7
Boring Diameter (DIA)		8 inches
Depth of Boring		15 feet
Ground surface elevation		46 feet
Length of Casing (dc)		15 feet
Top of Casing elevation		46 feet
finish floor elevation	na	feet
Elevation Bottom of Casing		31 feet
Pre-soak Time		4 hours
Measured By	H.C.	



Terms
Initial water depth (d1) =dc-di
Water level drop (Δd) = di-df

Reading Number	Clock Time	Elapsed Time	Water Measurement (d_i) and (d_f)	Percolation Rate	Preadjusted Percolation Rate		Initial Water depth (d1)	Water level Drop (Δd)	Reduction Factor (Rf)	Percolation Rate	Percolation Rate Variation
							d1= dc-di	Δd = di-df	Rf = ($2d_1$-Δd/diam)+1	Preadjust perc rate/Rf	
		Min	feet	ft/min	In/hour		In	In	Unitless	In/hour	Percent
1	13:15		9.00				72				
	13:20	5	13.10	0.82	590.40			49.2	12.9	45.9	
2	13:25		9.00				72				
	13:30	5	13.00	0.80	576.00			48	13.0	44.3	-3.7
3	13:33		9.00				72				
	13:38	5	12.80	0.76	547.20			45.6	13.3	41.1	-7.7
4	13:42		9.00				72				
	13:47	5	12.70	0.74	532.80			44.4	13.5	39.6	-3.9
5	13:52		9.00				72				
	13:57	5	12.50	0.70	504.00			42	13.8	36.7	-8.1
6	14:00		9.00				72				
	14:05	5	12.40	0.68	489.60			40.8	13.9	35.2	-4.1
7	14:08		9.00				72				
	14:13	5	12.30	0.66	475.20			39.6	14.1	33.8	-4.1
8	14:17		9.00				72				
	14:22	5	12.25	0.65	468.00			39	14.1	33.1	-2.1

Lowest Percolation Rate Measured **33.1 In/hr**

Note: Calculation based on County of Los Angeles, Administrative Manual, Low Impact Development Best Management Practice Guideline for Design, Investigation, and Reporting, dated 12/31/14.
LA County Minimum 0.3 inches per hour

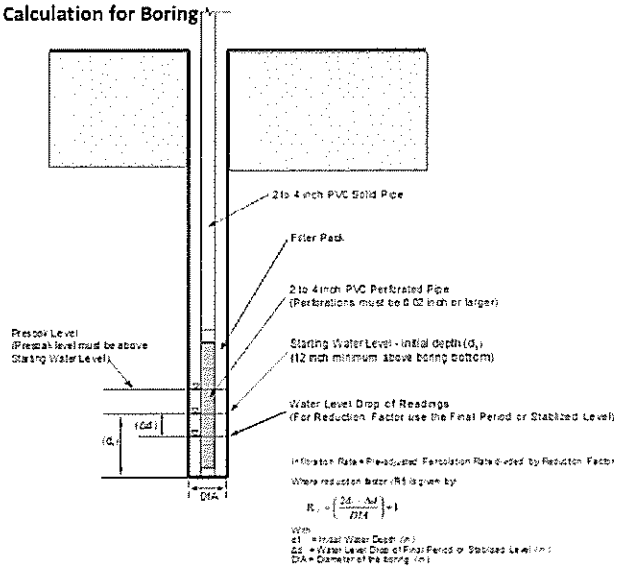
Test Date: 6-Jul-15
File No. 21003
File Name : Kimley-Horn

Percolation Rate Calculation for Boring

Testing Boring Number		8
Boring Diameter (DIA)		8 inches
Depth of Boring		30 feet
Ground surface elevation		46 feet
Length of Casing (dc)		30 feet
Top of Casing elevation		46 feet
finish floor elevation	na	feet
Elevation Bottom of Casing		16 feet
Pre-soak Time		4 hours
Measured By	H.C.	

Terms

Initial water depth (d1) =dc-di
Water level drop (Δd) = di-df



Reading Number	Clock Time	Elapsed Time	Water Measurement (d_i) and (d_f)	Percolation Rate	Preadjusted Percolation Rate		Initial Water depth (d1)	Water level Drop (Δd)	Reduction Factor (Rf)	Percolation Rate	Percolation Rate Variation
							d1 = dc-di	Δd = di-df	Rf = ($2d_i$-Δd/diam)+1	Preadjust perc rate/Rf	
		Min	feet	ft/min	in/hour		in	in	Unitless	in/hour	Percent
1	14:00		9.00				252				
	14:05	5	25.00	3.20	2304.00			192	40.0	57.6	
2	14:09		9.00				252				
	14:14	5	24.75	3.15	2268.00			189	40.4	56.2	-2.5
3	14:18		9.00				252				
	14:23	5	24.50	3.10	2232.00			186	40.8	54.8	-2.6
4	14:26		9.00				252				
	14:31	5	24.30	3.06	2203.20			183.6	41.1	53.7	-2.1
5	14:35		9.00				252				
	14:40	5	24.25	3.05	2196.00			183	41.1	53.4	-0.5
6	14:44		9.00				252				
	14:49	5	24.10	3.02	2174.40			181.2	41.4	52.6	-1.5
7	14:52		9.00				252				
	14:57	5	24.00	3.00	2160.00			180	41.5	52.0	-1.0
8	15:00		9.00				252				
	15:05	5	23.80	2.96	2131.20			177.6	41.8	51.0	-2.1

Lowest Percolation Rate Measured **51.0 in/hr**

Note: Calculation based on County of Los Angeles, Administrative Manual, Low Impact Development Best Management Practice Guideline for Design, Investigation, and Reporting, dated 12/31/14.
LA County Minimum 0.3 inches per hour

E GEOTECHNICAL REPORT ADDENDUM NO. 1

Project No. TET 18-147E
March 21, 2017

Mr. Oliver Galang
Tetra Tech
3475 E. Foothill Blvd
Pasadena, CA 91107

Subject: **GEOTECHNICAL REPORT ADDENDUM No. 1**
Culver Boulevard – Between Sepulveda Boulevard and Elenda Street
Culver City, California

Reference: "Preliminary Geotechnical Engineering Investigation, Proposed Underground Stormwater Storage and Infiltration System." Culver Boulevard between Sepulveda Boulevard and Elenda Street, Culver City, California, by Geotechnologies Inc. dated **August 12, 2015.**

Tetra Tech has reviewed the above referenced report for the preliminary design of the proposed subsurface storage and infiltration galleries to be located along Culver Boulevard between Sepulveda Boulevard and Elenda Street, in Culver City, California. This addendum expands and updates some sections of the referenced report and provides additional recommendations for the design of the facilities. Tetra Tech assumes the responsibility as the Geotechnical Engineer of Record for the subject project. Tetra Tech reserves the right to provide alternate recommendations, as deemed appropriate, based on the site conditions encountered during construction.

We appreciate the opportunity to provide our professional services on this project. If you have any questions regarding this report or if we can be of further service, please do not hesitate to contact the undersigned.

Respectfully submitted,
Tetra Tech

Fernando A. Cuenca M

Fernando Cuenca, Ph.D., P.E.
Project Engineer

Peter Skopek, Ph.D., G.E
Principal Engineer

Distribution: Addressee (pdf by email Oliver.Galang@tetratech.com)
Jason Fussel (pdf by email Jason.Fussel@tetratech.com)

Filename: Culver Boulevard Addendum No1 2018-03-21.docx

INTRODUCTION

This addendum provides updated and additional recommendations for the design of the proposed subsurface storage and infiltration galleries to be located along Culver Boulevard between Sepulveda Boulevard and Elenda Street, in Culver City, California. This addendum includes recommendations for the following:

- Revised design parameters for temporary sloped excavations;
- Revised design parameters for a temporary shoring system;
- Recommendations for lateral earth pressures on underground structures;
- Recommendations for site preparation;
- Recommendations for foundations and allowable bearing pressures;
- Recommendations for uplift design;
- Recommendations for pipeline trenches design and construction; and,
- Revised infiltration rates applicable to the design of the proposed underground infiltration galleries.

This addendum is to be used in conjunction with the original report "Preliminary Geotechnical Engineering Investigation, Proposed Underground Stormwater Storage and Infiltration System." Culver Boulevard between Sepulveda Boulevard and Elenda Street, Culver City, California, by Geotechnologies Inc. dated **August 12, 2015.** Whenever there is conflict with the original report this addendum supersedes the original information, otherwise the information contained in the original report remains effective. It is understood that a separate project will address the redesign of the streets and the pavements.

REVISE Section GROUNDWATER page 4

ADD:

Well data from the Los Angeles County Department of Public Works (LACDPW) database (http://dpw.lacounty.gov/general/wells/) and from the database from Geotracker (http://geotracker.waterboards.ca.gov/map/) for nearby wells indicate groundwater depths as summarized in Table A-.

Table A-1
Groundwater Wells in the Vicinity of the Site

Well Identification	Monitoring Period	Approximate location relative to the site	Shallowest groundwater depth
LACDPW Well ID 1290P State # 2S15W13P07	February 1966 to April 2015	0.7 miles to the southwest	19 feet on September 2000 (deemed not relevant due to proximity to Ballona Creek)
LACDPW Well ID 2578X State # 2S15W11F05	January 1954 to September 2009	1.1 miles to the northwest	89 feet on November 1999
LACDPW Well ID 2578AA State # 2S15W11F08	July 1964 to September 2010	1.1 miles to the northwest	66 feet on November 2008
Geotracker well cluster T0603703279	March 2002 to November 2009	0.3miles to the northeast	21 feet on March 2005
Geotracker well cluster T0603705478, MW6 through MW8	September 2002 to November 2013	0.16 miles to the southwest	24.6 feet on April 2008

Based on the assessment of the local stratigraphy and local topography, it is Tetra Tech's opinion that the water levels at well 1290P are not representative of the groundwater levels at the site because they are affected by the adjacent Ballona Creek. Based on the other available data from LACDPW and the Geotracker wells Tetra Tech concludes that in the project area the groundwater has been deeper than about 21 feet within the last 50 years. Therefore, it is recommended that for the design of the infiltration facilities a groundwater depth of 21 feet may be considered. For temporary/construction conditions, groundwater depth at 27.5 feet may be considered. For buoyancy considerations the historical high of 13 feet should be considered.

REVISE Section TEMPORARY EXCAVATIONS page 20.

ADD: TEMPORARY SLOPE AND TRENCH EXCAVATIONS

The on-site soils are not expected to pose unusual excavation difficulties, and therefore, conventional earth-moving equipment may be used. Localized sloughing/raveling of exposed soil intervals should be anticipated. All trench excavations should be performed in accordance with Cal-OSHA regulations. The on-site soils may be considered Type C soils to a depth of 20 feet, as defined by the current Cal-OSHA soil classification.

Unsurcharged excavations: Sides of unsurcharged temporary trenches up to 5 feet deep may be excavated with vertical walls. Deep temporary unsurcharged excavations less than 20 feet deep should be sloped back from top to bottom (i.e., no vertical cut at the top) at an inclination of 1.5(H):1(V) or flatter according to Cal-OSHA. A 4-foot vertical high wall is acceptable at the toe of the 1.5(H):1(V) slope. All excavations where the bottom vertical height of the trench exceeds 4 feet must be shielded to a height of at least 18 inches above the top of the vertical side. Where space for sloped sides is not available, shoring will be necessary.

Surcharge setback recommendations: Stockpiled (excavated) materials should be placed no closer than 5 feet from the top of the excavation. A greater setback may be necessary when considering surcharge loads such as heavy vehicles, concrete trucks and cranes. Tetra Tech should be advised of such heavy vehicle loadings so that specific setback requirements can be established for the used equipment. Alternatively, a shoring system may be designed to allow reduction in the setback distance.

Personnel from Tetra Tech should observe the excavation progress so that appropriate modifications to the excavation design may be recommended, if necessary, due to encountered conditions differing from the design assumptions.

Revise SHORING DESGIN pages 21 to 29

ADD: TEMPORARY SHORED EXCAVATION

Significant excavation is required for the construction for the proposed infiltration and storage underground vaults. If the excavation depth is no greater than 15 feet a cantilevered shoring may be feasible. Deeper vertical wall excavations may require internally braced shoring or some other type of shoring system like a soil nail wall. Presented herein are preliminary design recommendations for the following shoring systems:

- A soldier pile wall cantilevered system;
- A soldier pile wall with internal bracing; and
- A soil nail wall system.

We can furnish specific design recommendations as the design progresses, if requested. The designer will need to take into account the presence of adjacent structures, utilities, conduits, and other underground structures that may be affected by the shoring system.

All components of the shoring system, should be designed by a specialist Registered Civil Engineer in the State of California and should further satisfy requirements of Cal-OSHA. It is recommended that all shoring designs be reviewed by the Geotechnical Engineer. The following recommendations are based on the assumption that groundwater remains below the bottom of the shoring system (e.g., below the pile tips), and the face of the shoring is not subject to hydrostatic forces within the retained soils.

Soldier Pile and Lagging Wall System

Temporary soldier pile and lagging shoring system may be used to facilitate the proposed excavation. Tiebacks or braces are not usually required for excavation depths less than about 15 feet.

The soldier pile and lagging system would consist of steel soldier piles placed in drilled holes, backfilled with concrete. If the soldier piles are to be retrieved after construction, the soldier piles below the excavation bottom should be installed into holes backfilled with a 2-sack cement-sand slurry or approved equivalent (e.g., CLSM), and pea gravel could be used to backfill the hole from the dredge line to the top. If the contractor chooses instead to use a well-rounded uniform pea gravel material to fill the hole below the excavation bottom then a reduction of 33 percent should be applied to the passive resistance values provided in Table A-2 due to the pea gravel entrenching into the adjacent soil.

Continuous timber lagging or steel plates may be used between the soldier piles. If steel plates are used, these should be installed behind the front flange (closest to the excavation) and not behind the back flange (closest to the retained soil). Lagging should be removed at the time of backfilling.

Cantilever Soldier Pile Wall Design

Table A-2 below summarizes the governing geotechnical design parameters and loading diagrams for a cantilevered soldier pile wall shoring system. These values are based on the following assumptions:

- The shored soil grade is level at the ground surface,
- There are no hydrostatic pressures behind the wall lagging,
- There are no hydrostatic pressures above the soldier pile tips, and
- The shoring is temporary.

Any surcharge (live or dead load) located within a 1(H):1(V) plane drawn up from the base of the shoring should be added to the lateral earth pressures. The lateral contribution of a uniform surcharge load beginning immediately behind the wall and extending a horizontal distance equal to at least the retained height, may be calculated by multiplying the surcharge by a factor of 0.31. This uniform lateral load should be applied as a minimum throughout the whole exposed height of the soldier pile wall. As a minimum, a 2 feet of equivalent uniform soil surcharge, i.e., 240 psf, is recommended to be included to account for nominal construction surcharge. This office can provide recommendations for other surcharge configurations, if requested.

To resist the lateral loading on shoring, the necessary depth of penetration of isolated soldier piles below the excavation bottom can be calculated based on the passive soil resistance provided in Table A-2. Passive resistance should be ignored for the upper 12 inches below excavation bottom to account for potential near-surface soil disturbance. The passive resistance of individual soldier piles in Table A-2 was increased to account for soil arching and factored by a Factor of Safety of 1.5. The provided values are applicable for soldier piles that are spaced no closer than 2.7 pile widths/diameters. For closer spacing the passive resistance would need to be reduced.

Development of hydrostatic pressures is not anticipated above a depth of about 27.5 feet based on the current groundwater conditions.

Table A-2
Design Parameters for Temporary Cantilever Soldier Pile Wall Shoring

GEOTECHNICAL DESIGN PARAMETERS	
Excavation bottom depth	Up to ~ 15 feet
Subsurface materials above the bottom depth	**Alluvial Soils** Mostly medium dense sands and stiff silts (materials to ~15 feet below existing grade)
Soil unit weight, γ	125 pcf
Design friction angle, ϕ	32°
Design cohesion, c	0 psf
Stability number, Ns = $\frac{\gamma \cdot H}{c}$	n/a
ACTIVE PRESSURE	
Ka … coefficient of active lateral pressure	0.31
Equivalent fluid density, EFD	38 pcf (i.e., triangular distribution)
ALLOWABLE PASSIVE PRESSURE BELOW EXCAVATION BOTTOM **(applicable to depths of up to 27.5 feet)**	
Soil unit weight, γ	125 pcf
Design friction angle, ϕ	34°
Passive Arching capability*	2.7
Kp … coefficient of passive lateral pressure	3.5
Equivalent fluid density, EFD – includes Safety Factor of 1.5 – considers arching** – the resistance from the upper 1 foot within the passive zone should be neglected	770 pcf EFD (i.e., triangular distribution)

* Per Caltrans Trenching and Shoring Manual (2011)
** Applicable without reduction for soldier pile spacing > 2.7 times the effective pile width. This office can provide recommendations for reduction of the allowable passive pressure for more closely spaced soldier piles

Lateral Earth Pressures for Braced Shoring

If the invert of the storage and infiltration units is deeper than about 15 feet, braced shoring may be required. Similarly, excavations for other structures like pre-treatment units, pump vaults, etc. may also require braced shoring. The use of steel anchors (tiebacks) is not likely to be practical at this site due to encroachment issues related to the close presence of utilities, homes, and traveled roads. Internal bracing can be provided with struts or rakers. The struts or rakers can be designed for the earth pressures provided in Table A-3, and shown schematically in Diagram 1, where P_{total} is the total horizontal force on the wall and σ is the maximum horizontal soil pressure ordinate. For the design of the braced shoring the parameters provided in Table A-3 should be used. This earth pressure diagram assumes:

- The grade behind the shoring is level;
- There are no hydrostatic pressures behind the wall lagging;
- Groundwater is below the excavation bottom;
- The shoring is temporary.

Any surcharge (live or dead load) located within a 1(H):1(V) plane drawn up from the base of the shoring should be added to the lateral earth pressures. The lateral contribution of a uniform surcharge load beginning immediately behind the wall and extending a horizontal distance equal to at least the retained height, may be calculated by multiplying the surcharge by a factor of 0.31. This uniform lateral load, should be applied as a minimum throughout the whole exposed height of the soldier pile wall. As a minimum, a 2 feet of equivalent uniform soil surcharge, i.e., 240 psf, is recommended to be included to account for nominal construction surcharge. This office can provide recommendations for other surcharge configurations, if requested.

A raker bracing system may also be used to internally brace the soldier piles. If used, the raker bracing could be supported laterally by temporary concrete footings (deadmen). For the design of such temporary footings poured with the bearing surface normal to the rakers inclined at 45 to 60 degrees from the vertical, a bearing value of 2,500 psf may be used, provided the shallowest point of the footings be at least 2 feet below the lowest adjacent grade. To reduce the movement of the shoring, the rakers must be tightly wedged against the footings and against the shoring system, and continuously adjusted to maintain a tight connection.

In addition to the internal struts the necessary depth of penetration of isolated soldier piles below the excavation bottom to resist the lateral loading on the shoring can be calculated based on the passive soil resistance provided in Table A-2.

Table A-3
Design Parameters for Temporary Shoring with Soldier Pile Wall Restrained with Bracing

GEOTECHNICAL DESIGN PARAMETERS	
Excavation bottom depth	Up to ~ 25 feet
Subsurface materials	**Alluvial Soils** Mostly medium dense sands and stiff silts up to 15 feet Mostly medium dense to dense sands with some interspersed layers of hard clays up to 25 feet
Soil unit weight, γ	125 pcf
Design friction angle, ϕ	32°
Design cohesion, c	0 psf
Ka … coefficient of active lateral pressure	0.31
Loading Diagram behind the shoring	Trapezoidal load diagram (see Diagram 1 below)

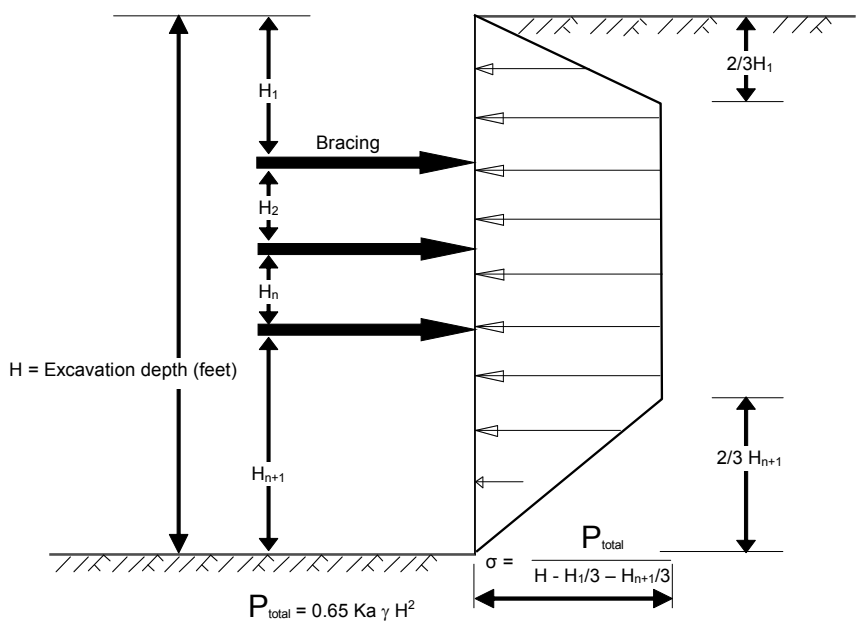


Diagram 1. Trapezoidal Lateral Earth Pressure Loading Diagram for Braced Shoring in Granular Materials

Lagging

Lagging should be designed for load calculated as the lateral earth pressure at each lagging level multiplied by a factor of 0.6 to account for soil arching. The maximum lagging load due to lateral earth pressures need not to exceed 400 psf when surcharges are not affecting the system. The loading on the lagging due to surcharges needs to be added to the loading due to the lateral earth pressures. A factor of 0.6 applied to the lateral pressures due to surcharges should be used in the design of the lagging.

Soil Nail Wall

A soil nail wall may be considered an option for support of the proposed excavation. The soil nail wall alternative may be more economical than a soldier pile wall shoring system. Recommended parameters to be used in the soil nail wall design are summarized in Table A-4.

Table A-4
Summary of Soil Nail Design Parameters

Design Parameter	Design Value
Ultimate Bond Stress (for rotary drilled nails)	10 psi
Ultimate Bond Stress (for augered nails)	
Yield Strength of Reinforcement Steel	60 ksi
Soil Nail Diameter	6 inches

Soil nail testing should be performed in accordance with the testing guidelines described in Chapter 9 of the FHWA Geotechnical Engineering Circular No.7 – Soil Nail Walls (FHWA-NHI-14-007, February 2015) under the oversight of the Geotechnical Engineer.

Other Shoring Related Items

Deflection

It is difficult to accurately predict the amount of deflection of a shored excavation as it largely depends on the quality and sequence of construction. It should be realized, however, that some deflection will likely occur. We estimate that this deflection could be on the order of 1 inch at the top of the shored excavation. If greater deflection occurs during construction, additional bracing or restraint may be necessary to reduce settlement. If it is desired to reduce the deflection of the shoring, a greater lateral earth pressure than recommended herein could be used in the shoring design.

Construction Staging

The shoring should be constructed utilizing a top-down method of construction whereas the soil is first partially excavated to produce a bench for installation of the topmost lagging. To continuously support the excavation, the lagging installation bench for soldier pile wall system should not be excavated more than 2.5 feet below the bottom elevation of the last lagging row and only for a short period of time, i.e., hours. This criterion may need to be re-evaluated depending on the construction observations. The shoring designer should analyze each stage of lagging installation to ensure that the wall has an adequate Factor of Safety at each excavated bench level.

The soil nail wall construction should be performed using top-down method in multiple stages. In the first stage, the vertical excavation will be cut to allow for construction of the top row of soil nails and the shotcrete facing. In the following stages, the soil will be excavated and soil nails installed and the shotcrete facing applied one row of soil nails at a time. In order to continuously support the excavation, the soil nail installation bench should not be excavated more than 5 feet below the elevation of the centerline of the soil nail row and only for a short period of time, i.e., hours. The shoring designer should analyze each stage of soil nail wall installation to ensure that the wall has an adequate Factor of Safety at each excavated bench level.

In general, it is expected that the conditions of the cut face encountered during construction will be favorable, i.e., no large scale or continuous caving is expected. However, this does not eliminate the potential for localized problems in cohesionless zones. If localized caving is encountered, it could be handled by reducing the unsupported height at that installation level and by flash coating the surface with shotcrete.

Shoring Performance Monitoring

Some means of monitoring the performance of the shoring system are recommended. The monitoring should consist of periodic visual inspections in conjunction with lateral and vertical surveying of the tops of the soldier piles or survey monuments installed on top or behind the shoring wall including the soil nail wall. Tetra Tech is available to provide specific recommendations when the design of the shoring system has been finalized.

ADD: LATERAL EARTH PRESSURES ON UNDERGROUND STRUCTURES

Based on the 2017 for the County of Los Angeles Building Code, which is based on the 2016 California Building Code (CBC), the design of retaining walls higher than 6 feet, as measured on the backfill side from the bottom of the footing to the finished ground level, requires inclusion of not only static lateral pressures but also inclusion of seismically induced lateral earth pressure increment.

The lateral pressures acting on the proposed on-site underground structures storage and infiltration structures should be calculated based on the recommendations provided in Table A-5. Lateral earth pressures presented in this table are for a level backfill.

According to the 2016 CBC the dynamic seismic lateral earth pressures on foundation walls and retaining walls should be determined using the Design Earthquake Ground Motions. Based on the USGS U.S. Seismic Design Maps website application (http://earthquake.usgs.gov/designmaps/us/application.php?), the PGA from the Design Response Spectrum at the site is approximately 0.51g where the design PGA is calculated as 0.4*S_{DS} and S_{DS} is the risk-targeted, maximum rotated acceleration direction, design response spectrum parameter for short periods.

The seismic induced earth pressure increments based on the Design Earthquake Ground Motions were estimated using the method recommended by Mikola and Sitar (2013). The seismic pressure increment for submerged backfill materials considers the effects of free water in the backfill, i.e., free-draining crushed rock, and a submerged backfill with clean sands with no excess pore pressure. The seismic pressure increments for the submerged backfill were computed based on the recommendations from Ebeling (1993). These recommendations are provided in Table A-5 (see also Diagram 2 for explanation of terms defining geometry).

Determination of whether the active or at-rest condition is appropriate for the design will depend on the flexibility of the walls. In walls with medium dense sand backfill that are free to rotate at least 0.002 radians (deflection at the top of the wall of at least 0.002 x H) may be designed for the active condition. Walls that are not capable of this movement, such as basement walls, should be assumed rigid and designed for the at-rest condition. The effect of any surcharge (dead or live load) located within a 1(H):1(V) plane drawn upward from the heel of the wall footing should be added to the lateral earth pressures.

Recommendations for lateral passive earth pressures during the design seismic event are also included in Table A-5. The total passive earth pressure coefficient for the combined static and seismic condition was computed as recommended by Taciroglu (2013).

It is noted that manufacturer's specifications for the storage and infiltration vaults may require the placement of crushed rock material immediately behind the underground units. In that case, a geotextile will be required to provide separation from the adjacent soil and seismic pore pressure increments will need to be accounted for (Ebeling, 1993). Where crushed rock is not required, the backfill materials within the zone immediately behind the subterranean walls, should have a Sand Equivalent of about 30, and an Expansion Index of less than 20. It is expected that the on-site

materials will be suitable as a backfill with the exception of fine-grained materials encountered within the upper 7 feet. Alternatively, approved non-expansive import material should be used for the backfill within at least 5 feet behind the underground walls. The approved backfill materials should be moisture-conditioned wet of the optimum moisture content, and placed in horizontal lifts not more than 8 inches in uncompacted thickness, and compacted to at least 90 percent of the maximum dry density, as evaluated by the latest version of ASTM D1557.

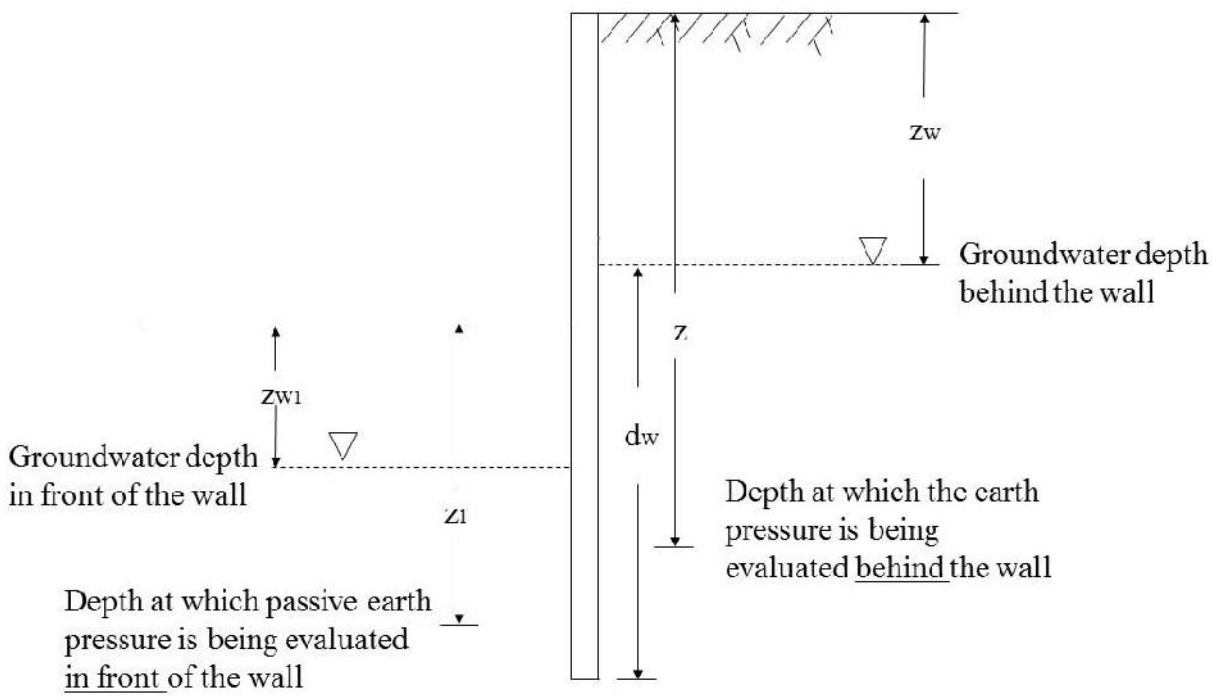


Diagram 2. Graphical Description of Geometrical Terms used in Table A-5

Table A-5
Geotechnical Design Parameters for Subterranean Walls
Lateral Pressures due to Static and Seismic Loads

Active Pressure for Yielding Walls		
Static *active* pressure (psf)	above groundwater ($z < z_w$)	$37z + 0.31Q$
	below groundwater ($z > z_w$)	$37z_w + 80(z - z_w) + 0.31Q$
Active seismic pressure increment (psf)	above groundwater ($z < z_w$)	$16z$
	below groundwater ($z > z_w$) (sandy backfill)	$16z_w + 24 (z - z_w)$
	below groundwater ($z > z_w$) (crushed rock backfill)	$16z_w + 14 (z - z_w) + 28\sqrt{(z - z_w) * d_w}$
At rest Pressure for Non-yielding Walls		
Static *at-rest* pressure (psf)	above groundwater ($z < z_w$)	$56z + 0.47Q$
	below groundwater ($z > z_w$)	$56z_w + 92(z - z_w) + 0.47Q$
At-rest seismic pressure increment (psf)	above groundwater ($z < z_w$)	$36z$
	below groundwater ($z > z_w$) (sandy backfill)	$36z_w + 54 (z - z_w)$
	below groundwater ($z > z_w$) (crushed rock backfill)	$36z_w + 34 (z - z_w) + 28\sqrt{(z - z_w) * d_w}$
Lateral Passive Pressure		
Allowable lateral *passive* pressure (psf) (Includes a Factor of Safety of 2)	above groundwater ($z_1 < z_{w1}$)	$195z_1$
	below groundwater ($z_1 > z_{w1}$)	$195z_{w1} + 100 (z_1 - z_{w1})$
Ultimate *passive* pressure for combined static and seismic conditions (psf) (no Factor of Safety applied)	above groundwater ($z_1 < z_{w1}$)	$270z_1$
	below groundwater ($z_1 > z_{w1}$)	$270z_{w1} + 145 (z_1 - z_{w1})$

Notes:

- Lateral Pressures due to Seismic Loading are based on a PGA=0.51g for a design response spectrum taken as 2/3 MCE_R response spectrum. The appropriate total seismic force (active plus seismic increment for yielding walls and at rest plus seismic increment for non-yielding walls) should be calculated be assuming a downward increasing tringle equivalent fluid pressure distribution. The resulting force should be assumed to act at 1/3 of the height of the wall above the bottom of the wall.
- Pressure based on backfill soil with $\phi = 32^o$, c = 0 psf, γ_t = 120 pcf (above groundwater), γ_t = 125 pcf (below groundwater)
- The hydrostatic pressure has been neglected for the computation of passive resistance below groundwater.
- The 2016 CBC requires that basement walls be designed for at rest earth pressures for static conditions.
- Ultimate passive pressure for combined static and seismic conditions evaluated using Taciroglu (2013).

Legend (see Diagram 2):

z … Depth (ft) below grade behind the wall – depth measured from the ground surface to the point where soil lateral pressure is being evaluated;
z_1 … Depth (ft) below grade where passive conditions apply, i.e., usually in front of the wall – depth measured behind the wall from the ground surface to the point where the soil lateral pressure is being evaluated;
z_w … Depth to groundwater (ft) below grade behind the wall – depth measured from the ground surface behind the wall to the groundwater;
z_{w1} … Depth to groundwater (ft) where passive conditions apply, i.e., usually in front of the wall – depth measured from the ground surface in the excavation to the groundwater;
d_w … Depth of groundwater along the wall (ft) – measured from the groundwater table behind the wall to the bottom of the structure;
Q … Uniform surcharge (psf) within a 1(H):1(V) plane drawn upward behind the wall from the heel of the wall footing.

ADD: GENERAL SITE PREPARATION

Foundations for structures founded at depths greater than 10 feet may be placed on competent native soils encountered at the excavated subgrade level. The exposed subgrade for buried structures, other than infiltration and storage units, should be scarified to a depth of 6 inches, moisture-conditioned wet of the optimum moisture content, and compacted to at least 90 percent of the maximum dry density as evaluated by the latest version of ASTM D1557. Storage and infiltration modules should be installed in accordance with the manufacturer's recommendations and will include the following general steps:

1. Scarify the exposed subgrade to a depth of 6 inches, moisture-condition wet of the optimum moisture content, and compact to at least 86 percent of the maximum dry density and no more than 90 percent, as evaluated by the latest version of ASTM D1557.
2. Place a layer of geotextile to provide separation between the crushed rock and the native subgrade.
3. Place a layer at least 6 inches thick consisting of ¾-inch crushed rock, and extend it at least 2 feet horizontally outside the perimeter of the storage/infiltration system.

The joints at the top of the underground storage/infiltration unit contacts should be covered to prevent soil movement (ground loss) into the storage area.

All fill placement associated with the replacement of overexcavated soils, fill placed to achieve finish grade or subgrade, or utility trench backfill should be moisture-conditioned wet of the optimum moisture content and compacted to at least 90 percent of the maximum dry density, as evaluated by the latest version of ASTM D1557.

Localized zones of loose and/or unstable soils may be encountered during the grading operations at the subgrade level and should be overexcavated and recompacted as recommended above for each type of structure to provide a competent uniform subgrade. If loose/soft/wet areas are encountered that are not practical to be excavated and processed below structures other than the infiltration/storage units, Table A-6 below provides options for stabilizing the subgrade. The objective is to produce at least 2 feet of competent fill to bridge over the impacted area. The specific type of remediation and associated area limits will need to be evaluated in the field by a representative of Tetra Tech.

Excavated on-site soils may be re-used as compacted fill provided they are free of organics, deleterious materials, debris and particles over 3 inches in largest dimension. Locally, particles up to 6 inches in largest dimension may be incorporated in the fill soils based on specific approval and placement recommendations provided by the Geotechnical Engineer of Record during grading.

In the event that any soil materials (including backfill or base course materials) are imported to the site, such soils should be sampled, tested, and approved by Tetra Tech prior to arrival on-site. In general, any soils imported to the site for use as fill should be predominantly granular and have an Expansion Index less than 20. Imported crushed rock to be used as base or backfill materials should be approved by Tetra Tech.

Table A-6
Conceptual Options for Handling Unstable Materials at the Excavated Subgrade For Structures other than the Infiltration/Storage Units

Areas where the soils are soft and/or unstable at the excavation subgrade	• Overexcavate at least 2 feet • Stabilize the soft subgrade by working open-graded aggregate material (typically 3/4" or 1.5" crushed rock, coarser for softer subgrade) at least 4 to 6 inches into the soil. • Place non-woven geotextile, Mirafi 180N or approved equivalent, over the stabilized subgrade. • Place and compact well-graded fill (e.g., AB, CMB) or general approved backfill material to specified compaction over the geotextile.
Larger areas where the soils are excessively soft and/or unstable	• Overexcavate at least 2 feet • Improve the soft subgrade by working in open-graded aggregate material as much as possible/practical into the subgrade. • Place non-woven geotextile, Mirafi 180N or approved equivalent, over the exposed soil. • Place at least 8 inches (12-18 inches preferred) of well graded aggregate material (e.g., AB, CMB); only reasonably achievable compaction is required. • Place non-woven geotextile, Mirafi 180N or approved equivalent, over the aggregate layer. • Place and compact fill to specified compaction over the geotextile.

ADD: UNDERGROUND STORAGE AND INFILTRATION GALLERY FOUNDATIONS

The foundations for the storage units and other deep buried structures (e.g., diversion structures, pump houses, pretreatment units, etc.) below a depth of about 10 feet can be designed based on the parameters provided in Table A-7.

It is noted that these buried structures are expected to impose loads on the underlying soils that are lower than the initial geostatic stresses, and therefore the settlements associated with the proposed construction are expected to be minor. This office can provide a more refined bearing capacity and settlement assessment once the facility layout and configuration are finalized.

Foundations Adjacent to Trenches

The bottom of any trenches for buried utilities and piping should be kept outside a zone defined by a 1(H):1(V) plane projected from the outside bottom edge of any existing or proposed foundation. Backfill materials and procedures shall conform to the recommendations provided in the "General Site Preparation" section of this report. If any piping needs to be placed within the zone of influence, the pipes should be designed to account for the increased surcharge from the applied foundation pressures and to withstand potential differential settlement between the surcharged and unsurcharged segments of the pipe. Generally, the pipes within the impacted zone should be protected with concrete encasement, utilidors, or other suitable form of protection. The piping and encasement should be designed to withstand differential settlements of up to 1 inch over a distance equal to half of the depth of the pipe below the bottom of the footing. This office should be contacted to review any specific utility interaction configurations and their proposed mitigation.

Foundation Construction Observations

To evaluate the presence of satisfactory materials at foundation subgrade, foundation excavations should be observed by a representative of Geotechnical Engineer, and be clean of loosened soil and debris before placing steel or concrete. If soft or loose soils or other unsatisfactory materials are encountered, such materials should be removed and replaced with compacted fill prior to construction or placement of the concrete foundation.

Table A-7
Geotechnical Design Parameters

Storage and Infiltration Units and Other Underground Structures with a Foundation Depth over 10 feet and less than 25 feet	
Dimensions (feet)	• All dimensions
Foundation Depth (at least 10 feet)	• Storage and Infiltration Units founded on at least 6 inches of ¾-inch crushed rock • Other buried structures founded on competent native subgrade
Allowable Bearing Pressure (psf)	• For storage and infiltration units: 3,700 + 65 (z - 10), where 10 < z < 20 is the foundation bottom depth in feet • For other underground structures with a foundation width less than 15 feet: 4,000 + 65(z-10), where 10 < z < 25 is the foundation bottom depth in feet
	• The allowable bearing value may be increased by one-third for transient live loads from wind or seismicity.
Estimated Static Settlement for Allowable Bearing Pressure	• Approximately 1-inch total settlement. • Approximately 0.5-inch differential settlement between supports or over a distance of 30 feet.
Allowable Friction Factor at the base to compute Lateral Sliding Resistance (incorporates Factor of Safety of 1.5)	• 0.40 for mass concrete on crushed rock • 0.30 for formed concrete on crushed rock • 0.40 for crushed rock on geotextile • 0.27 for mass concrete on native soil • 0.23 for formed concrete on native soil
Allowable Lateral Passive Resistance (static) (incorporates Factor of Safety of 2)	• See Table A-5
Combined Allowable Lateral Resistance	• The total resistance to lateral loads can be derived by combining the allowable lateral resistance due to friction and the allowable lateral passive resistance.
Ultimate Uplift Resistance	• The uplift resistance should be calculated determining the lateral force acting on the underground walls of the structure from active or at-rest lateral earth pressures as applicable multiplied by the applicable coefficient of friction. The weight of the soil above the storage/infiltration units may be added to the uplift resistance. • A total unit weight of 120 pcf may be used for the soil.

ADD: UPLIFT OF BURIED STRUCTURES

Enclosed buried structures at a depth greater than 13 feet should be designed to resist uplift forces due to potential buoyancy forces exerted by high groundwater at about 13 feet. These buoyant forces need to be accounted to prevent buried structures and pipelines from upward floating or shifting. The designer must consider all downward and upward forces and design for the worst-case scenario.

In accounting for the uplift resisting forces, the designer may include the resistance of the soil friction acting against the buried walls of the considered structures, and/or the soil to soil friction acting on the vertical projections of foundation edges. These frictional forces can be computed using the friction factors provided in Table A-7 and the applicable lateral pressures from Table A-5.

Several options could be considered by the designer to resist the uplift forces, such as:

- Increase the thickness of the soil cover on top of the structures by either raising the surface grade or by lowering the structures or combination thereof.
- Increase the weight of the structures by creating additional internal partitions or thickened walls.
- Place ballast concrete mass within the structure.
- Install a base that projects beyond beyond the structure footprint to increase the base area and the amount of overburden pressure at the foundation level due to the weight of the soil acting on the projection.
- Anchoring the structure foundation by the use of anchors, piles, or deadman.

Implementation of any these options may affect the hydraulic performance of the system.

ADD: PIPELINE DESIGN AND CONSTRUCTION

Design recommendations for proposed pipeline trenches and backfill are provided below.

Trench Excavation

Recommendations provided in the "Temporary Slopes and Trench Excavations" section of this addendum should be followed for design and construction of trenches for the proposed pipelines.

Trench Bottom Preparation

Any particles larger than 3 inches should be removed from the bottom of the trench.

Trench Backfill

Bedding and pipe zone backfill material for the pipelines should consist of clean sand or gravel. The actual selection and suitability of the material should be determined based on the pipe design loading and requirements. The sandy materials found below a depth of 5 feet at the site are expected to be suitable for pipe bedding and pipe zone backfill. The bedding layer, i.e, backfill range between the pipe invert and the springline, should be moisture-conditioned to at least the optimum moisture content and compacted to at least 90 percent of maximum density per ASTM D1557. The pipe zone backfill, i.e., zone extending typically 6 to 12 inches above the pipe, should be moisture-conditioned to at least wet of optimum moisture and tamped to achieve a density of at least 90 percent of maximum density per ASTM D1557. The use of mechanized compaction equipment within the pipe zone should be carefully controlled to avoid overstressing or damaging the pipe. Backfill should be placed on each side of the pipe simultaneously to avoid unbalanced loads on the pipe.

General trench backfill zone extends from the top of the pipe zone backfill to the finished grade. Approved excavated soil may be used for general trench backfill. If the excavated fine-grained on-site material is used as the trench backfill, it should be moisture-conditioned to at least 120 percent of the optimum moisture content and compacted to at least 90 percent of maximum dry density per the latest version of ASTM D1557.

ADD: DESIGN INFILTRATION RATES

It is noted that Geotechnologies (2015) performed 6 infiltration tests using the borehole percolation methodology described in GS200.1 (2014). However, the water heads above the bottom of the borehole used in their infiltration testing ranged from 6 to 21 feet, which are more representative of testing conditions for drywells. Thus, the infiltration rates recommended by Geotechnologies are exceedingly high, and not really applicable for the design of underground galleries which are to be designed mostly for vertical flow at much lower heads. In addition, the methodology used by Geotechnologies to compute raw infiltration rates was based on the recommendations included in GS200.1 which have been superseded as described in the new County Guideliness GS200.2 (2017). Therefore, the methodology described in GS200.2 to compute adjusted infiltration rates has been implemented herein in the numerical modeling to update the rates reported by Geotechnologies.

In order to model the borehole percolation testing method, a closed-form solution for porous probes provided by Das (2006) formulas 6.61 and 6.63 for a falling head test condition and with a permeable porous base was used in order to estimate saturated hydraulic conductivities. The average hydraulic conductivity (k) can be calculated approximately as:

$$k = \frac{\pi d^2/4}{F(t_2 - t_1)} \ln\left(\frac{h_1}{h_2}\right)$$

where:

$$F = \frac{2\,\pi\,L}{\ln\left(\frac{L}{D}\right) + \sqrt{1 + \left(\frac{L}{D}\right)^2}}$$

D… is the diameter of the borehole (feet)
L… is the length of the screen borehole (feet)
h_1… is the starting effective head (feet)
h_2… is the finishing effective head (feet)
$t_2 - t_1$… is the time interval (seconds)
k… is the average hydraulic conductivity (feet/sec)

This equation is valid for a single percolation borehole with a ratio of $L/D > 4$, and it assumes that there is no interference from nearby boreholes or wells. The estimated hydraulic conductivities for each borehole percolation test estimated using the equation above are summarized in Table A-8. These hydraulic conductivities were used in turn to model a falling head test consistent with GS200.2 with an initial water head of 1.5 feet above the bottom of the borehole to more closely model the expected operational head of the underground galleries. Using this procedure, the raw infiltration rate was calculated. To obtain the design infiltration rate (see Table A-8), the reduction factors recommended in GS200.2 were applied to the raw infiltration rate as follows:

- A testing method reduction factor RF_t of 2 was applied as required by the guidelines to account for the direction of flow during the test and the reliability of the method.
- A reduction factor RF_v of 1.25 (typical range between 1 and 3) to account for effects related to site subsurface variability and the number of tests was used.
- A reduction factor RF_s of 2 (typical range between 1 and 3) to account for long-term siltation, and plugging, was used.

The adjusted percolation rates are summarized in Table A-8. Based on the adjusted infiltration rates summarized in this table, it is recommended that a design infiltration rate of 0.8 inches/hour be used for the design of the underground infiltration galleries. It is anticipated that if the invert of the facilities is shallower than 11 feet the 10-foot clearance required by the GS200.2 will be met at all locations. However, the infiltration facilities should have an invert depth of no less than 9.5 feet to avoid the upper fine-grained materials which are likely to have unacceptable infiltration capacities.

Geotechnologies (2015) did not recommend the installation of a stormwater infiltration system near B-3 given the groundwater depth of about 27.5 feet encountered in boring B-3, and the fact that fine-grained soils were encountered at that boring beginning at a depth of 22.5 feet. However, the data seems to indicate that the perched groundwater and stratigraphy encountered at B-3 is a localized phenomenon as a nearby boring B-2 drilled to a depth of 30 feet did not encounter water and the stratigraphy differed significantly from that encountered at B-3. Therefore, it is likely that the impervious layer is not a continuous layer and the underground galleries can also be extended along the whole proposed alignment. Tetra Tech recommends that to decrease the uncertainty existing in the area between Huron Avenue and Elanda Street regarding the presence of an impermeable layer at a depth of 22.5 feet, two borings be drilled in that section of the project to a depth of 35 feet to confirm subsurface conditions. Installing a monitoring well to monitor groundwater elevations in that area before construction is also recommended.

Table A-8
Adjusted Design Infiltration Rates

Borehole Percolation Number	Backcalculated Hydraulic Conductivity (cm/sec) Das (2006)	Estimated Raw Infiltration Rate (for an initial head of 1.5 feet) (inches/hour)	Adjusted Design Infiltration Rate (inches/hour)
B-1	2.86×10^{-3}	8.8	2.0
B-2	1.15×10^{-3}	3.3	0.8
B-4	3.43×10^{-3}	10.4	2.4
B-5	1.67×10^{-3}	4.8	1.2
B-7	2.12×10^{-3}	6.6	1.5
B-8	1.36×10^{-3}	4.0	1.0

CLOSURE

This document expands on the information provided in the previously issued report by Geotechnologies (2015) and is intended to provide a specific engineering and construction information for the subject project. Consequently, it cannot be considered an independent document, as it does not contain adequate background information. Thus, this addendum is directed only to the personnel with detailed knowledge of the subject project.

Tetra Tech has endeavored to perform its evaluation using the degree of care and skill ordinarily exercised under similar circumstances by reputable geotechnical professionals with experience in this area in similar soil conditions. No other warranty, either expressed or implied, is made as to the conclusions and recommendations contained in this addendum report.

REFERENCES

California Building Standards Commission, 2016 California Building Code, California Code of Regulations Title 24, Based on the 2015 International Building Code, July 2016.

California Department of Transportation (CALTRANS), 2011, Trenching and Shoring Manual. County of Los Angeles, Department of Public Works, Geotechnical and Materials Engineering Division, 2009. Review of Geotechnical Reports addressing Liquefaction. GME-3 (February 4).

County of Los Angeles Department of Public works, 2014. Low Impact Development Standards Manual, February 2014.

County of Los Angeles, 2017. Administrative Manual GS200.2 – Guidelines for Geotechnical Investigation and Reporting, Low Impact Development Stormwater Infiltration, Department of Public Works, Geotechnical and Materials Engineering Division, June 30, 2017.

Das, B. J., 2006. Principles of Geotechnical Engineering. Sixth Edition. Nelson Editors. Canada.

Federal Highway Administration (FHWA), 1999. Geotechnical Engineering Circular No. 4. Ground Anchors and Anchored Systems. FHWA-IF-99-015. June, 1999.

Federal Highway Administration (FHWA), 2015. Soil Nail Walls Reference Manual. FHWA-NHI-14-007. NHI Course No. 132085. February, 2015.

Naval Facilities Engineering Command (NAVFAC), 1982. Soil Mechanics, Foundations and Earth Structures. Design Manuals 7.01 and 7.02.

Mikola, G. R., and Sitar, N., 2013. "Seismic Earth Pressures on Retaining Structures in Cohesionless Soils." Report submitted to the California Department of Transportation (Caltrans), Report No. UCB GT 13-01, March 2013.

Taciroglu, E., Shamsabadi, A., and Shi-Yu X., 2013. Development of Improved Guidelines for Analysis and Design of Earth Retaining Structures. UCLA-SGEL Report 2013/02. Caltrans Final Report No. CA13-2270. July, 2013.

Terzaghi, K., Peck R., and Mesri G., (1996), Soil Mechanics in Engineering Practice, Third Edition, Published by Wiley-Interscience, February 7, 1996.

F TRAFFIC SIGNAL WARRANT ANALYSIS

T E C H N I C A L M E M O R A N D U M

Date: October 2, 2018

To: Andy O'Connell
Senior Civil Engineer, City of Culver City

From: Fong-Ping Lee, P.E., T.E., FPL and Associates Inc.
Colin Tsui, EIT, FPL and Associates Inc.

Subject: Culver Boulevard Realignment Project
Traffic Signal Warrant Analysis – 3-leg intersection at Harter Avenue and Culver Boulevard

---

OVERVIEW

The Culver Boulevard Realignment Project is intended to realign the existing 58-foot wide raised median to accommodate increased pedestrian and bike travel and form a pedestrian and bike network to connect the schools east of Culver Boulevard with the residences west of Culver Boulevard. The scope of the project includes the modification of the existing signalized crossing of Culver Boulevard at Huron Avenue as well as the installation of a new traffic signal at Harter Avenue and Culver Boulevard to facilitate crossings. This memo is intended to address the traffic signal warrant analysis for the proposed new traffic signal at the Harter Avenue and Culver Boulevard.

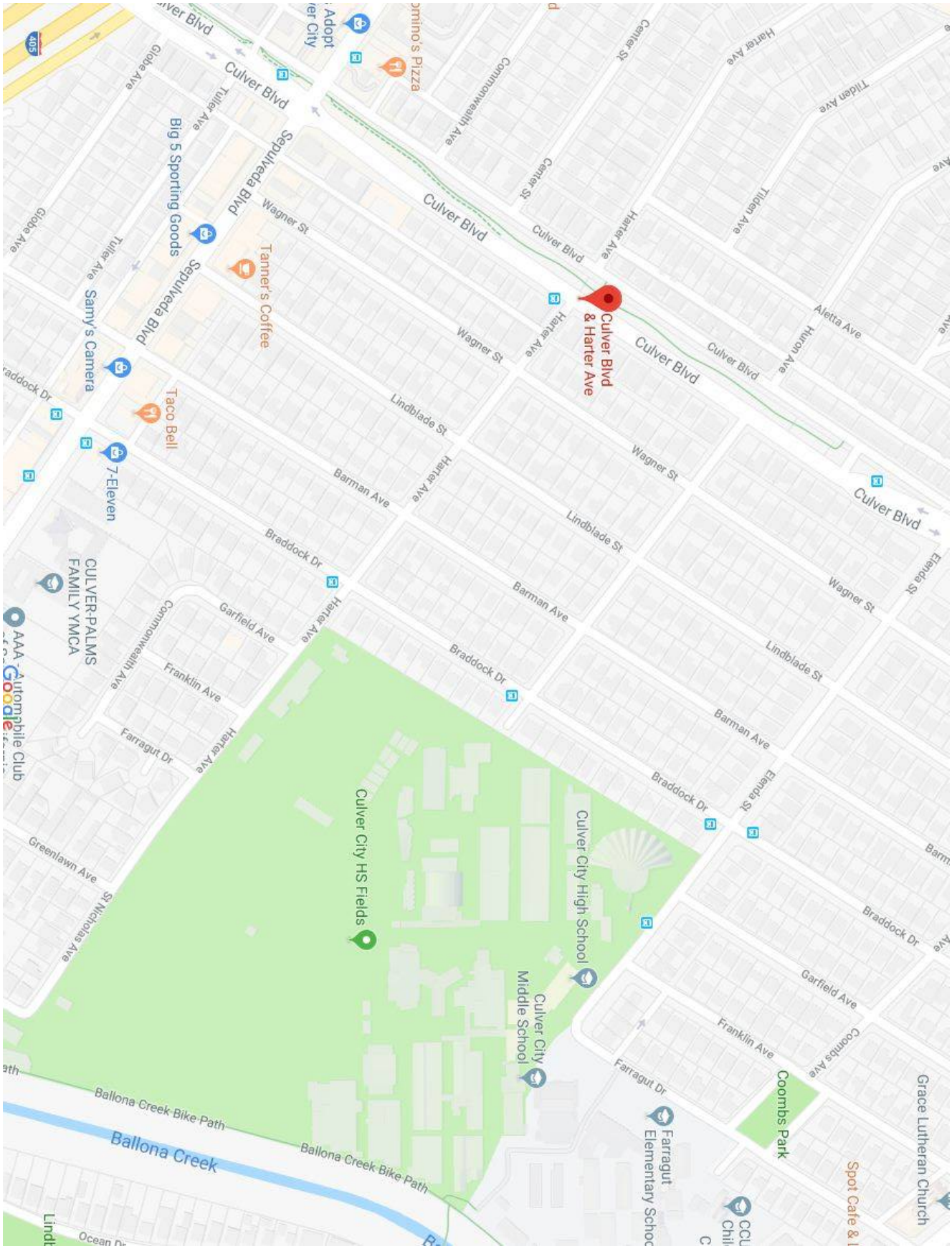
EXISTING CONDITIONS

The existing conditions of the project area are shown in **Figure 1** on the following page. Culver Boulevard is a Primary Artery with two lanes of travel in each direction and average daily traffic counts of approximately 34,000 vehicles. Harter Avenue is a Collector street with 1 lane of traffic in each direction. As shown in **Figure 1**, the signalized crossings of Culver Boulevard at Huron Avenue and at Harter Avenue will facilitate the access to the schools by encouraging walking and biking with shorter and safer routes.

TRAFFIC COUNTS

Vehicular traffic data was first collected on June 21, 2018. However, school was not in session at the time and the Harter Avenue data did not fully reflect the traffic conditions for the remainder of the year. These counts indicated that Culver Boulevard averaged approximately 33,500 vehicles daily (33,651 N/O Harter; 33,485 S/O Harter) and Harter Avenue averaged 1,300 daily vehicles. The June vehicle counts are attached in **Attachment A**.

Vehicular traffic data was re-counted on September 13-14, 2018 when the surrounding schools were in session. Data was collected on Culver Boulevard but the tubes counting traffic on Harter Avenue were damaged. Traffic data was thus re-counted on Harter Avenue on September 20-21, 2018. The daily volume recorded along Harter Avenue on September 21 was 1,467 vehicles. The daily volume recorded along Culver Boulevard S/O Harter Avenue on September 13th was 34,181 vehicles, which was consistent with the volume from the June count and suggests that traffic along Culver Boulevard remains fairly constant throughout the year. The September vehicle counts are attached in **Attachment B.**


Culver Blvd & Harter Ave
Culver Blvd
Harter Ave
Wagner St
Lindblade St
Barman Ave
Braddock Dr
Garfield Ave
Franklin Ave
Farragut Dr
Greenlawn Ave
St Nicholas Ave
Commonwealth Ave
Center St
Tilden Ave
Aletta Ave
Huron Ave
Elenda St
Coombs Ave
Sepulveda Blvd
Tulier Ave
Globe Ave
Braddock Dr
Big 5 Sporting Goods
Tanner's Coffee
Samy's Camera
Taco Bell
7-Eleven
CULVER-PALMS FAMILY YMCA
AAA - Automobile Club
Culver City HS Fields
Culver City High School
Culver City Middle School
Farragut Elementary School
Coombs Park
Grace Lutheran Church
Spot Cafe & L
Ballona Creek Bike Path
Ballona Creek
405

Pedestrian traffic data at the intersection of Culver Boulevard and Harter Avenue was collected on September 21, 2018 and 36 daily crossings were recorded across Culver Boulevard. A majority of these crossings coincided with the peak morning and afternoon hours of traffic. With high volumes along Culver Boulevard throughout the day, these crossings at Harter Avenue would be unsafe for pedestrians. Pedestrian counts are attached in **Attachment C**

TRAFFIC SIGNAL WARRANT ANALYSIS

A traffic signal warrant analysis was performed in accordance with the 2014 edition of the California Manual for Uniform Traffic Control Devices (MUTCD). The traffic data was evaluated using criteria from Warrant 3 to determine if a traffic signal is justified. An analysis was performed and **it was determined that a traffic signal is warranted per MUTCD Traffic Signal Warrant 3 Criteria B.**

MUTCD Section 4C.04 Criteria B states: "*The plotted point representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only) for 1 hour (any four consecutive 15-minute periods) of an average day falls above the applicable curve in Figure 4C-3 for the existing combination of approach lanes.*"

The peak hour was found to be from 4:45 PM to 5:45 PM. A total 107 vehicles were counted on the EB lane of Harter Avenue and 2,507 vehicles were counted for the NB and SB lanes of Culver Boulevard. Due to the fact that Harter Avenue is a minor street with one lane in each direction, the threshold volume to warrant a signal is 100 vehicles per hour along Harter Ave. Per Figure 4C-3 of the MUTCD, these values plot above the threshold curve and thus justify a new traffic signal. Despite the fact that the vehicle counts at Culver Boulevard and Harter Avenue were recorded on different days, the counts taken in June reflect that the volumes on Culver Boulevard will be well over 1,800 vehicles during this hour and thus the threshold value of 100 vehicles per hour along Harter Avenue still applies. The analysis worksheets are attached in **Attachment D**.

RECOMMENDATION

It is recommended that the existing 3-leg unsignalized intersection at Harter Avenue and Culver Boulevard be signalized to enhance safety for not only the school children accessing the local schools but also the increased pedestrians and bikers who will be using the intersection as a result of this project.

Attachments:

- A – FPL June, 2018 vehicular traffic counts
- B – FPL September, 2018 vehicular traffic counts
- C – FPL September, 2018 pedestrian counts
- D – Signal warrant analysis worksheets

ATTACHMENT A – JUNE 2018 TRAFFIC COUNTS

Prepared by NDS/ATD

Prepared by National Data & Surveying Services

VOLUME

Culver Blvd N/O Harter Ave

Day: Thursday
Date: 6/21/2018

City: Culver City
Project #: CA18_5450_001

DAILY TOTALS	NB	SB	EB	WB	Total
	17,531	16,120	0	0	33,651

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	40		41		0	0	81		12:00	212		201		0	0	413	
00:15	26		28		0	0	54		12:15	194		218		0	0	412	
00:30	24		31		0	0	55		12:30	206		253		0	0	459	
00:45	16	106	11	111	0	0	27	217	12:45	226	838	212	884	0	0	438	1722
01:00	19		14		0	0	33		13:00	202		224		0	0	426	
01:15	11		16		0	0	27		13:15	226		234		0	0	460	
01:30	10		10		0	0	20		13:30	214		242		0	0	456	
01:45	7	47	19	59	0	0	26	106	13:45	243	885	224	924	0	0	467	1809
02:00	16		15		0	0	31		14:00	212		269		0	0	481	
02:15	7		9		0	0	16		14:15	222		254		0	0	476	
02:30	6		11		0	0	17		14:30	260		290		0	0	550	
02:45	7	36	6	41	0	0	13	77	14:45	259	953	281	1094	0	0	540	2047
03:00	12		9		0	0	21		15:00	256		266		0	0	522	
03:15	8		6		0	0	14		15:15	312		313		0	0	625	
03:30	6		4		0	0	10		15:30	291		293		0	0	584	
03:45	12	38	7	26	0	0	19	64	15:45	319	1178	286	1158	0	0	605	2336
04:00	13		11		0	0	24		16:00	324		293		0	0	617	
04:15	27		10		0	0	37		16:15	353		298		0	0	651	
04:30	26		14		0	0	40		16:30	341		293		0	0	634	
04:45	52	118	19	54	0	0	71	172	16:45	345	1363	303	1187	0	0	648	2550
05:00	46		19		0	0	65		17:00	334		351		0	0	685	
05:15	74		34		0	0	108		17:15	352		302		0	0	654	
05:30	108		49		0	0	157		17:30	385		312		0	0	697	
05:45	139	367	54	156	0	0	193	523	17:45	351	1422	313	1278	0	0	664	2700
06:00	100		75		0	0	175		18:00	286		357		0	0	643	
06:15	173		84		0	0	257		18:15	317		345		0	0	662	
06:30	179		99		0	0	278		18:30	368		335		0	0	703	
06:45	195	647	149	407	0	0	344	1054	18:45	349	1320	302	1339	0	0	651	2659
07:00	220		140		0	0	360		19:00	332		296		0	0	628	
07:15	266		181		0	0	447		19:15	307		297		0	0	604	
07:30	300		236		0	0	536		19:30	291		244		0	0	535	
07:45	309	1095	248	805	0	0	557	1900	19:45	223	1153	262	1099	0	0	485	2252
08:00	313		260		0	0	573		20:00	201		217		0	0	418	
08:15	365		279		0	0	644		20:15	184		193		0	0	377	
08:30	370		303		0	0	673		20:30	121		185		0	0	306	
08:45	331	1379	308	1150	0	0	639	2529	20:45	156	662	149	744	0	0	305	1406
09:00	301		263		0	0	564		21:00	140		161		0	0	301	
09:15	330		207		0	0	537		21:15	122		142		0	0	264	
09:30	259		222		0	0	481		21:30	135		118		0	0	253	
09:45	289	1179	196	888	0	0	485	2067	21:45	121	518	107	528	0	0	228	1046
10:00	237		203		0	0	440		22:00	111		137		0	0	248	
10:15	227		177		0	0	404		22:15	84		125		0	0	209	
10:30	235		187		0	0	422		22:30	83		90		0	0	173	
10:45	221	920	210	777	0	0	431	1697	22:45	63	341	91	443	0	0	154	784
11:00	171		190		0	0	361		23:00	68		62		0	0	130	
11:15	189		168		0	0	357		23:15	51		67		0	0	118	
11:30	184		187		0	0	371		23:30	36		72		0	0	108	
11:45	236	780	177	722	0	0	413	1502	23:45	31	186	45	246	0	0	76	432
TOTALS		6712		5196				11908	TOTALS		10819		10924				21743
SPLIT %		56.4%		43.6%				35.4%	SPLIT %		49.8%		50.2%				64.6%

DAILY TOTALS	NB	SB	EB	WB	Total
	17,531	16,120	0	0	33,651

AM Peak Hour	08:00	08:15			08:00	PM Peak Hour	17:00	17:45			17:00
AM Pk Volume	1379	1153			2529	PM Pk Volume	1422	1350			2700
Pk Hr Factor	0.932	0.936			0.939	Pk Hr Factor	0.923	0.945			0.968
7 - 9 Volume	2474	1955	0	0	4429	4 - 6 Volume	2785	2465	0	0	5250
7 - 9 Peak Hour	08:00	08:00			08:00	4 - 6 Peak Hour	17:00	17:00			17:00
7 - 9 Pk Volume	1379	1150	0	0	2529	4 - 6 Pk Volume	1422	1278	0	0	2700
Pk Hr Factor	0.932	0.933	0.000	0.000	0.939	Pk Hr Factor	0.923	0.910	0.000	0.000	0.968

Prepared by National Data & Surveying Services

CLASSIFICATION

Culver Blvd N/O Harter Ave

Day: Thursday
Date: 6/21/2018

City: Culver City
Project #: CA18_5450_001n

North Bound

Time	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	Total
00:00 AM	0	99	5	0	2	0	0	0	0	0	0	0	0	106
01:00	0	42	5	0	0	0	0	0	0	0	0	0	0	47
02:00	0	35	1	0	0	0	0	0	0	0	0	0	0	36
03:00	0	37	1	0	0	0	0	0	0	0	0	0	0	38
04:00	0	107	8	0	3	0	0	0	0	0	0	0	0	118
05:00	0	305	39	2	21	0	0	0	0	0	0	0	0	367
06:00	0	556	51	7	33	0	0	0	0	0	0	0	0	647
07:00	0	974	76	6	36	2	0	0	1	0	0	0	0	1095
08:00	0	1229	91	13	43	2	0	0	1	0	0	0	0	1379
09:00	2	1064	68	4	37	4	0	0	0	0	0	0	0	1179
10:00	0	817	63	7	31	1	1	0	0	0	0	0	0	920
11:00	0	679	60	5	29	4	1	0	2	0	0	0	0	780
12:00 PM	0	757	52	4	24	1	0	0	0	0	0	0	0	838
13:00	0	790	65	5	23	2	0	0	0	0	0	0	0	885
14:00	0	856	64	4	26	2	0	0	1	0	0	0	0	953
15:00	0	1048	89	5	35	1	0	0	0	0	0	0	0	1178
16:00	0	1232	97	8	26	0	0	0	0	0	0	0	0	1363
17:00	0	1295	86	4	34	2	1	0	0	0	0	0	0	1422
18:00	0	1211	75	4	28	2	0	0	0	0	0	0	0	1320
19:00	0	1049	73	5	26	0	0	0	0	0	0	0	0	1153
20:00	0	619	30	2	11	0	0	0	0	0	0	0	0	662
21:00	0	470	31	0	17	0	0	0	0	0	0	0	0	518
22:00	0	313	16	1	10	0	0	0	1	0	0	0	0	341
23:00	0	172	10	0	4	0	0	0	0	0	0	0	0	186
Totals	2	15756	1156	86	499	23	3		6					17531
% of Totals	0%	90%	7%	0%	3%	0%	0%		0%					100%

AM Volumes	2	5944	468	44	235	13	2	0	4	0	0	0	0	6712
% AM	0%	34%	3%	0%	1%	0%	0%		0%					38%
AM Peak Hour	09:00	08:00	08:00	08:00	08:00	09:00	10:00		11:00					08:00
Volume	2	1229	91	13	43	4	1		2					1379
PM Volumes	0	9812	688	42	264	10	1	0	2	0	0	0	0	10819
% PM		56%	4%	0%	2%	0%	0%		0%					62%
PM Peak Hour		17:00	16:00	16:00	15:00	13:00	17:00		14:00					17:00
Volume		1295	97	8	35	2	1		1					1422

Directional Peak Periods	AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Classes	Volume		%	Volume		%	Volume		%	Volume		%
	2474	↔	14%	1723	↔	10%	2785	↔	16%	10549	↔	60%

Classification Definitions

1 Motorcycles
2 Passenger Cars
3 2-Axle, 4-Tire Single Units
4 Buses
5 2-Axle, 6-Tire Single Units
6 3-Axle Single Units
7 > =4-Axle Single Units
8 <=4-Axle Single Trailers
9 5-Axle Single Trailers
10 >=6-Axle Single Trailers
11 <=5-Axle Multi-Trailers
12 6-Axle Multi-Trailers
13 >=7-Axle Multi-Trailers

Prepared by National Data & Surveying Services

CLASSIFICATION

Culver Blvd N/O Harter Ave

Day: Thursday
Date: 6/21/2018

City: Culver City
Project #: CA18_5450_001s

South Bound

Time	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	Total
00:00 AM	0	102	6	0	3	0	0	0	0	0	0	0	0	111
01:00	0	53	3	0	3	0	0	0	0	0	0	0	0	59
02:00	0	38	3	0	0	0	0	0	0	0	0	0	0	41
03:00	0	25	1	0	0	0	0	0	0	0	0	0	0	26
04:00	0	52	2	0	0	0	0	0	0	0	0	0	0	54
05:00	0	134	11	3	8	0	0	0	0	0	0	0	0	156
06:00	0	352	36	2	17	0	0	0	0	0	0	0	0	407
07:00	0	711	53	6	34	1	0	0	0	0	0	0	0	805
08:00	0	1031	77	6	35	0	0	1	0	0	0	0	0	1150
09:00	0	795	54	3	32	2	2	0	0	0	0	0	0	888
10:00	0	680	58	5	33	1	0	0	0	0	0	0	0	777
11:00	0	633	50	4	35	0	0	0	0	0	0	0	0	722
12:00 PM	0	766	68	5	42	1	2	0	0	0	0	0	0	884
13:00	0	793	84	5	42	0	0	0	0	0	0	0	0	924
14:00	1	943	103	3	41	1	2	0	0	0	0	0	0	1094
15:00	2	1012	92	5	45	2	0	0	0	0	0	0	0	1158
16:00	0	1027	104	9	47	0	0	0	0	0	0	0	0	1187
17:00	0	1149	85	4	38	1	0	1	0	0	0	0	0	1278
18:00	1	1224	65	5	44	0	0	0	0	0	0	0	0	1339
19:00	0	987	73	11	27	0	0	1	0	0	0	0	0	1099
20:00	0	679	37	2	25	0	0	1	0	0	0	0	0	744
21:00	0	484	32	1	11	0	0	0	0	0	0	0	0	528
22:00	0	409	26	0	8	0	0	0	0	0	0	0	0	443
23:00	0	221	18	0	7	0	0	0	0	0	0	0	0	246
Totals	4	14300	1141	79	577	9	6	4						16120
% of Totals	0%	89%	7%	0%	4%	0%	0%	0%						100%

AM Volumes	0	4606	354	29	200	4	2	1	0	0	0	0	0	5196
% AM		29%	2%	0%	1%	0%	0%	0%						32%
AM Peak Hour		08:00	08:00	07:00	08:00	09:00	09:00	08:00						08:00
Volume		1031	77	6	35	2	2	1						1150
PM Volumes	4	9694	787	50	377	5	4	3	0	0	0	0	0	10924
% PM	0%	60%	5%	0%	2%	0%	0%	0%						68%
PM Peak Hour	15:00	18:00	16:00	19:00	16:00	15:00	12:00	17:00						18:00
Volume	2	1224	104	11	47	2	2	1						1339

Directional Peak Periods	AM 7-9		NOON 12-2		PM 4-6		Off Peak Volumes	
All Classes	Volume	%	Volume	%	Volume	%	Volume	%
	1955	12%	1808	11%	2465	15%	9892	61%

Classification Definitions

1 Motorcycles
2 Passenger Cars
3 2-Axle, 4-Tire Single Units
4 Buses
5 2-Axle, 6-Tire Single Units
6 3-Axle Single Units
7 > =4-Axle Single Units
8 <=4-Axle Single Trailers
9 5-Axle Single Trailers
10 >=6-Axle Single Trailers
11 <=5-Axle Multi-Trailers
12 6-Axle Multi-Trailers
13 >=7-Axle Multi-Trailers

Prepared by NDS/ATD

Prepared by National Data & Surveying Services

VOLUME

Culver Blvd S/O Harter Ave

Day: Thursday
Date: 6/21/2018

City: Culver City
Project #: CA18_5450_003

DAILY TOTALS	NB	SB	EB	WB	Total
	17,484	16,001	0	0	33,485

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	39		39		0	0	78		12:00	210		209		0	0	419	
00:15	25		30		0	0	55		12:15	187		232		0	0	419	
00:30	27		30		0	0	57		12:30	208		241		0	0	449	
00:45	16	107	12	111	0	0	28	218	12:45	231	836	229	911	0	0	460	1747
01:00	18		13		0	0	31		13:00	203		230		0	0	433	
01:15	11		18		0	0	29		13:15	220		226		0	0	446	
01:30	10		11		0	0	21		13:30	213		235		0	0	448	
01:45	8	47	19	61	0	0	27	108	13:45	235	871	234	925	0	0	469	1796
02:00	15		14		0	0	29		14:00	208		269		0	0	477	
02:15	7		11		0	0	18		14:15	226		256		0	0	482	
02:30	6		11		0	0	17		14:30	257		290		0	0	547	
02:45	6	34	8	44	0	0	14	78	14:45	263	954	266	1081	0	0	529	2035
03:00	12		10		0	0	22		15:00	260		255		0	0	515	
03:15	8		7		0	0	15		15:15	311		326		0	0	637	
03:30	6		4		0	0	10		15:30	297		282		0	0	579	
03:45	12	38	6	27	0	0	18	65	15:45	324	1192	291	1154	0	0	615	2346
04:00	14		12		0	0	26		16:00	339		281		0	0	620	
04:15	26		10		0	0	36		16:15	350		308		0	0	658	
04:30	28		16		0	0	44		16:30	357		280		0	0	637	
04:45	54	122	19	57	0	0	73	179	16:45	351	1397	293	1162	0	0	644	2559
05:00	43		22		0	0	65		17:00	344		339		0	0	683	
05:15	75		36		0	0	111		17:15	351		302		0	0	653	
05:30	111		41		0	0	152		17:30	376		317		0	0	693	
05:45	131	360	57	156	0	0	188	516	17:45	356	1427	326	1284	0	0	682	2711
06:00	106		73		0	0	179		18:00	295		364		0	0	659	
06:15	168		85		0	0	253		18:15	310		334		0	0	644	
06:30	183		100		0	0	283		18:30	368		338		0	0	706	
06:45	203	660	145	403	0	0	348	1063	18:45	349	1322	301	1337	0	0	650	2659
07:00	218		140		0	0	358		19:00	330		283		0	0	613	
07:15	269		179		0	0	448		19:15	308		295		0	0	603	
07:30	282		228		0	0	510		19:30	290		234		0	0	524	
07:45	312	1081	246	793	0	0	558	1874	19:45	221	1149	258	1070	0	0	479	2219
08:00	288		256		0	0	544		20:00	207		216		0	0	423	
08:15	347		284		0	0	631		20:15	179		186		0	0	365	
08:30	363		306		0	0	669		20:30	126		188		0	0	314	
08:45	332	1330	299	1145	0	0	631	2475	20:45	152	664	143	733	0	0	295	1397
09:00	279		256		0	0	535		21:00	136		158		0	0	294	
09:15	334		211		0	0	545		21:15	124		141		0	0	265	
09:30	254		211		0	0	465		21:30	136		115		0	0	251	
09:45	289	1156	188	866	0	0	477	2022	21:45	118	514	109	523	0	0	227	1037
10:00	236		203		0	0	439		22:00	113		134		0	0	247	
10:15	224		173		0	0	397		22:15	80		124		0	0	204	
10:30	238		191		0	0	429		22:30	86		84		0	0	170	
10:45	222	920	210	777	0	0	432	1697	22:45	67	346	95	437	0	0	162	783
11:00	166		192		0	0	358		23:00	72		55		0	0	127	
11:15	189		166		0	0	355		23:15	50		64		0	0	114	
11:30	175		180		0	0	355		23:30	36		69		0	0	105	
11:45	234	764	174	712	0	0	408	1476	23:45	35	193	44	232	0	0	79	425
TOTALS		6619		5152				11771	TOTALS		10865		10849				21714
SPLIT %		56.2%		43.8%				35.2%	SPLIT %		50.0%		50.0%				64.8%

DAILY TOTALS	NB	SB	EB	WB	Total
	17,484	16,001	0	0	33,485

AM Peak Hour	08:00	08:00			08:00	PM Peak Hour	17:00	17:45			17:00
AM Pk Volume	1330	1145			2475	PM Pk Volume	1427	1362			2711
Pk Hr Factor	0.916	0.935			0.925	Pk Hr Factor	0.949	0.935			0.978
7 - 9 Volume	2411	1938	0	0	4349	4 - 6 Volume	2824	2446	0	0	5270
7 - 9 Peak Hour	08:00	08:00			08:00	4 - 6 Peak Hour	17:00	17:00			17:00
7 - 9 Pk Volume	1330	1145	0	0	2475	4 - 6 Pk Volume	1427	1284	0	0	2711
Pk Hr Factor	0.916	0.935	0.000	0.000	0.925	Pk Hr Factor	0.949	0.947	0.000	0.000	0.978

Prepared by National Data & Surveying Services

CLASSIFICATION

Culver Blvd S/O Harter Ave

Day: Thursday
Date: 6/21/2018

City: Culver City
Project #: CA18_5450_003n

North Bound

Time	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	Total
00:00 AM	0	98	5	0	4	0	0	0	0	0	0	0	0	107
01:00	0	43	4	0	0	0	0	0	0	0	0	0	0	47
02:00	0	33	1	0	0	0	0	0	0	0	0	0	0	34
03:00	0	36	2	0	0	0	0	0	0	0	0	0	0	38
04:00	0	107	11	0	4	0	0	0	0	0	0	0	0	122
05:00	0	301	34	1	24	0	0	0	0	0	0	0	0	360
06:00	0	572	50	4	34	0	0	0	0	0	0	0	0	660
07:00	0	954	69	10	43	2	0	2	1	0	0	0	0	1081
08:00	1	1194	78	6	50	0	0	0	1	0	0	0	0	1330
09:00	0	1031	72	7	43	3	0	0	0	0	0	0	0	1156
10:00	0	816	60	6	36	1	0	1	0	0	0	0	0	920
11:00	0	671	54	4	28	5	0	0	2	0	0	0	0	764
12:00 PM	0	746	58	4	27	1	0	0	0	0	0	0	0	836
13:00	1	771	62	6	29	2	0	0	0	0	0	0	0	871
14:00	0	853	61	4	34	1	0	1	0	0	0	0	0	954
15:00	0	1068	80	7	33	2	0	1	1	0	0	0	0	1192
16:00	0	1261	87	5	44	0	0	0	0	0	0	0	0	1397
17:00	0	1307	76	5	38	0	0	1	0	0	0	0	0	1427
18:00	0	1214	69	5	34	0	0	0	0	0	0	0	0	1322
19:00	0	1055	61	6	27	0	0	0	0	0	0	0	0	1149
20:00	0	608	37	3	15	0	0	0	1	0	0	0	0	664
21:00	0	467	32	0	15	0	0	0	0	0	0	0	0	514
22:00	0	321	17	0	8	0	0	0	0	0	0	0	0	346
23:00	0	178	9	0	6	0	0	0	0	0	0	0	0	193
Totals	2	15705	1089	83	576	17		6	6					17484
% of Totals	0%	90%	6%	0%	3%	0%		0%	0%					100%

AM Volumes	1	5856	440	38	266	11	0	3	4	0	0	0	0	6619
% AM	0%	33%	3%	0%	2%	0%		0%	0%					38%
AM Peak Hour	08:00	08:00	08:00	07:00	08:00	11:00		07:00	11:00					08:00
Volume	1	1194	78	10	50	5		2	2					1330
PM Volumes	1	9849	649	45	310	6	0	3	2	0	0	0	0	10865
% PM	0%	56%	4%	0%	2%	0%		0%	0%					62%
PM Peak Hour	13:00	17:00	16:00	15:00	16:00	13:00		14:00	15:00					17:00
Volume	1	1307	87	7	44	2		1	1					1427

Directional Peak Periods	AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Classes	Volume		%	Volume		%	Volume		%	Volume		%
	2411	↔	14%	1707	↔	10%	2824	↔	16%	10542	↔	60%

Classification Definitions

1 Motorcycles
2 Passenger Cars
3 2-Axle, 4-Tire Single Units
4 Buses
5 2-Axle, 6-Tire Single Units
6 3-Axle Single Units
7 > =4-Axle Single Units
8 <=4-Axle Single Trailers
9 5-Axle Single Trailers
10 >=6-Axle Single Trailers
11 <=5-Axle Multi-Trailers
12 6-Axle Multi-Trailers
13 >=7-Axle Multi-Trailers

Prepared by National Data & Surveying Services

CLASSIFICATION

Culver Blvd S/O Harter Ave

Day: Thursday
Date: 6/21/2018

City: Culver City
Project #: CA18_5450_003s

South Bound

Time	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	Total
00:00 AM	0	94	13	0	4	0	0	0	0	0	0	0	0	111
01:00	0	48	10	0	3	0	0	0	0	0	0	0	0	61
02:00	0	38	5	0	1	0	0	0	0	0	0	0	0	44
03:00	0	23	4	0	0	0	0	0	0	0	0	0	0	27
04:00	0	43	13	0	1	0	0	0	0	0	0	0	0	57
05:00	0	129	14	3	10	0	0	0	0	0	0	0	0	156
06:00	0	325	57	2	19	0	0	0	0	0	0	0	0	403
07:00	0	684	70	4	33	0	2	0	0	0	0	0	0	793
08:00	0	1000	100	7	35	1	0	2	0	0	0	0	0	1145
09:00	1	756	65	4	36	2	1	1	0	0	0	0	0	866
10:00	0	680	60	3	34	0	0	0	0	0	0	0	0	777
11:00	0	611	54	4	43	0	0	0	0	0	0	0	0	712
12:00 PM	1	780	73	8	47	1	1	0	0	0	0	0	0	911
13:00	0	796	76	4	49	0	0	0	0	0	0	0	0	925
14:00	0	939	85	6	48	2	1	0	0	0	0	0	0	1081
15:00	0	1018	80	5	49	1	0	1	0	0	0	0	0	1154
16:00	0	1010	94	6	52	0	0	0	0	0	0	0	0	1162
17:00	1	1156	83	7	35	0	0	2	0	0	0	0	0	1284
18:00	2	1197	79	9	45	0	1	4	0	0	0	0	0	1337
19:00	0	967	67	6	30	0	0	0	0	0	0	0	0	1070
20:00	1	652	52	1	24	0	0	3	0	0	0	0	0	733
21:00	0	452	55	1	15	0	0	0	0	0	0	0	0	523
22:00	0	383	41	0	13	0	0	0	0	0	0	0	0	437
23:00	0	202	23	0	7	0	0	0	0	0	0	0	0	232
Totals	6	13983	1273	80	633	7	6	13						16001
% of Totals	0%	87%	8%	0%	4%	0%	0%	0%						100%

AM Volumes	1	4431	465	27	219	3	3	3	0	0	0	0	0	5152
% AM	0%	28%	3%	0%	1%	0%	0%	0%						32%
AM Peak Hour	09:00	08:00	08:00	08:00	11:00	09:00	07:00	08:00						08:00
Volume	1	1000	100	7	43	2	2	2						1145
PM Volumes	5	9552	808	53	414	4	3	10	0	0	0	0	0	10849
% PM	0%	60%	5%	0%	3%	0%	0%	0%						68%
PM Peak Hour	18:00	18:00	16:00	18:00	16:00	14:00	12:00	18:00						18:00
Volume	2	1197	94	9	52	2	1	4						1337

Directional Peak Periods	AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Classes	Volume		%	Volume		%	Volume		%	Volume		%
	1938	↔	12%	1836	↔	11%	2446	↔	15%	9781	↔	61%

Classification Definitions

1 Motorcycles
2 Passenger Cars
3 2-Axle, 4-Tire Single Units
4 Buses
5 2-Axle, 6-Tire Single Units
6 3-Axle Single Units
7 > =4-Axle Single Units
8 <=4-Axle Single Trailers
9 5-Axle Single Trailers
10 >=6-Axle Single Trailers
11 <=5-Axle Multi-Trailers
12 6-Axle Multi-Trailers
13 >=7-Axle Multi-Trailers

Prepared by NDS/ATD

Prepared by National Data & Surveying Services

VOLUME

Harter Ave E/O Culver Blvd

Day: Thursday
Date: 6/21/2018

City: Culver City
Project #: CA18_5450_002

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	709	619	1,328

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00	0	0	0		1		1		12:00	0	0	13		12		25	
00:15	0	0	0		2		2		12:15	0	0	4		10		14	
00:30	0	0	1		1		2		12:30	0	0	8		6		14	
00:45	0	0	0	1	0	4		5	12:45	0	0	12	37	8	36	20	73
01:00	0	0	0		1		1		13:00	0	0	7		10		17	
01:15	0	0	0		0				13:15	0	0	11		12		23	
01:30	0	0	0		0				13:30	0	0	12		14		26	
01:45	0	0	0		0	1		1	13:45	0	0	12	42	17	53	29	95
02:00	0	0	0		0				14:00	0	0	18		9		27	
02:15	0	0	0		0				14:15	0	0	12		6		18	
02:30	0	0	0		0				14:30	0	0	12		11		23	
02:45	0	0	0		0				14:45	0	0	15	57	6	32	21	89
03:00	0	0	0		1		1		15:00	0	0	10		12		22	
03:15	0	0	0		0				15:15	0	0	10		8		18	
03:30	0	0	0		0				15:30	0	0	15		12		27	
03:45	0	0	1	1	1	2	2	3	15:45	0	0	19	54	9	41	28	95
04:00	0	0	0		0				16:00	0	0	14		5		19	
04:15	0	0	0		0				16:15	0	0	10		11		21	
04:30	0	0	0		0				16:30	0	0	13		10		23	
04:45	0	0	1	1	2	2	3	3	16:45	0	0	15	52	5	31	20	83
05:00	0	0	0		0				17:00	0	0	20		6		26	
05:15	0	0	0		3		3		17:15	0	0	22		4		26	
05:30	0	0	1		1		2		17:30	0	0	24		17		41	
05:45	0	0	0	1	1	5	1	6	17:45	0	0	22	88	7	34	29	122
06:00	0	0	1		0		1		18:00	0	0	22		5		27	
06:15	0	0	2		3		5		18:15	0	0	19		8		27	
06:30	0	0	2		1		3		18:30	0	0	33		7		40	
06:45	0	0	6	11	3	7	9	18	18:45	0	0	20	94	13	33	33	127
07:00	0	0	2		8		10		19:00	0	0	14		7		21	
07:15	0	0	3		9		12		19:15	0	0	9		13		22	
07:30	0	0	8		20		28		19:30	0	0	12		6		18	
07:45	0	0	13	26	28	65	41	91	19:45	0	0	8	43	7	33	15	76
08:00	0	0	16		22		38		20:00	0	0	12		4		16	
08:15	0	0	4		22		26		20:15	0	0	7		5		12	
08:30	0	0	6		14		20		20:30	0	0	10		7		17	
08:45	0	0	15	41	13	71	28	112	20:45	0	0	4	33	13	29	17	62
09:00	0	0	6		20		26		21:00	0	0	3		10		13	
09:15	0	0	9		12		21		21:15	0	0	5		4		9	
09:30	0	0	4		10		14		21:30	0	0	4		4		8	
09:45	0	0	7	26	11	53	18	79	21:45	0	0	6	18	3	21	9	39
10:00	0	0	7		9		16		22:00	0	0	4		2		6	
10:15	0	0	2		5		7		22:15	0	0	0		4		4	
10:30	0	0	9		8		17		22:30	0	0	2		2		4	
10:45	0	0	14	32	7	29	21	61	22:45	0	0	3	9	1	9	4	18
11:00	0	0	6		5		11		23:00	0	0	7		1		8	
11:15	0	0	3		5		8		23:15	0	0	3		4		7	
11:30	0	0	6		3		9		23:30	0	0	0		2		2	
11:45	0	0	10	25	7	20	17	45	23:45	0	0	7	17	1	8	8	25
TOTALS				165		259		424	TOTALS				544		360		904
SPLIT %				38.9%		61.1%		31.9%	SPLIT %				60.2%		39.8%		68.1%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	709	619	1,328

AM Peak Hour			07:30	07:30	07:30	PM Peak Hour			17:45	13:00	18:00
AM Pk Volume			41	92	133	PM Pk Volume			96	53	127
Pk Hr Factor			0.641	0.821	0.811	Pk Hr Factor			0.727	0.779	0.794
7 - 9 Volume	0	0	67	136	203	4 - 6 Volume	0	0	140	65	205
7 - 9 Peak Hour			07:30	07:30	07:30	4 - 6 Peak Hour			17:00	17:00	17:00
7 - 9 Pk Volume	0	0	41	92	133	4 - 6 Pk Volume	0	0	88	34	122
Pk Hr Factor	0.000	0.000	0.641	0.821	0.811	Pk Hr Factor	0.000	0.000	0.917	0.500	0.744

Prepared by National Data & Surveying Services

CLASSIFICATION

Harter Ave E/O Culver Blvd

Day: Thursday
Date: 6/21/2018

City: Culver City
Project #: CA18_5450_002e

East Bound

Time	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	Total
00:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	9	1	0	0	1	0	0	0	0	0	0	0	11
07:00	0	21	0	0	3	2	0	0	0	0	0	0	0	26
08:00	0	37	4	0	0	0	0	0	0	0	0	0	0	41
09:00	0	21	1	1	3	0	0	0	0	0	0	0	0	26
10:00	0	26	3	0	2	1	0	0	0	0	0	0	0	32
11:00	0	21	3	0	0	1	0	0	0	0	0	0	0	25
12:00 PM	2	31	3	0	1	0	0	0	0	0	0	0	0	37
13:00	0	37	4	0	0	1	0	0	0	0	0	0	0	42
14:00	0	51	5	1	0	0	0	0	0	0	0	0	0	57
15:00	0	44	7	0	3	0	0	0	0	0	0	0	0	54
16:00	0	47	4	0	0	1	0	0	0	0	0	0	0	52
17:00	0	81	6	0	1	0	0	0	0	0	0	0	0	88
18:00	0	84	9	0	1	0	0	0	0	0	0	0	0	94
19:00	0	41	1	0	1	0	0	0	0	0	0	0	0	43
20:00	1	27	3	0	2	0	0	0	0	0	0	0	0	33
21:00	0	18	0	0	0	0	0	0	0	0	0	0	0	18
22:00	0	9	0	0	0	0	0	0	0	0	0	0	0	9
23:00	0	17	0	0	0	0	0	0	0	0	0	0	0	17
Totals	3	626	54	2	17	7								709
% of Totals	0%	88%	8%	0%	2%	1%								100%

AM Volumes	0	139	12	1	8	5	0	0	0	0	0	0	0	165
% AM		20%	2%	0%	1%	1%								23%
AM Peak Hour		08:00	08:00	09:00	07:00	07:00								08:00
Volume		37	4	1	3	2								41
PM Volumes	3	487	42	1	9	2	0	0	0	0	0	0	0	544
% PM	0%	69%	6%	0%	1%	0%								77%
PM Peak Hour	12:00	18:00	18:00	14:00	15:00	13:00								18:00
Volume	2	84	9	1	3	1								94

Directional Peak Periods	AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Classes	Volume		%	Volume		%	Volume		%	Volume		%
	67	↔	9%	79	↔	11%	140	↔	20%	423	↔	60%

Classification Definitions

1 Motorcycles
2 Passenger Cars
3 2-Axle, 4-Tire Single Units
4 Buses
5 2-Axle, 6-Tire Single Units
6 3-Axle Single Units
7 > =4-Axle Single Units
8 <=4-Axle Single Trailers
9 5-Axle Single Trailers
10 >=6-Axle Single Trailers
11 <=5-Axle Multi-Trailers
12 6-Axle Multi-Trailers
13 >=7-Axle Multi-Trailers

Prepared by National Data & Surveying Services

CLASSIFICATION

Harter Ave E/O Culver Blvd

Day: Thursday
Date: 6/21/2018

City: Culver City
Project #: CA18_5450_002w

13

West Bound

Time	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	Total
00:00 AM	0	4	0	0	0	0	0	0	0	0	0	0	0	4
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
04:00	0	1	0	0	1	0	0	0	0	0	0	0	0	2
05:00	0	5	0	0	0	0	0	0	0	0	0	0	0	5
06:00	0	6	1	0	0	0	0	0	0	0	0	0	0	7
07:00	0	61	4	0	0	0	0	0	0	0	0	0	0	65
08:00	0	59	9	0	3	0	0	0	0	0	0	0	0	71
09:00	2	48	1	0	2	0	0	0	0	0	0	0	0	53
10:00	0	25	3	0	1	0	0	0	0	0	0	0	0	29
11:00	0	15	2	0	3	0	0	0	0	0	0	0	0	20
12:00 PM	2	29	4	0	1	0	0	0	0	0	0	0	0	36
13:00	0	47	4	0	2	0	0	0	0	0	0	0	0	53
14:00	1	26	3	0	2	0	0	0	0	0	0	0	0	32
15:00	1	39	0	0	1	0	0	0	0	0	0	0	0	41
16:00	0	28	2	0	1	0	0	0	0	0	0	0	0	31
17:00	2	30	1	0	1	0	0	0	0	0	0	0	0	34
18:00	0	30	2	0	1	0	0	0	0	0	0	0	0	33
19:00	0	30	1	0	2	0	0	0	0	0	0	0	0	33
20:00	0	28	1	0	0	0	0	0	0	0	0	0	0	29
21:00	0	20	1	0	0	0	0	0	0	0	0	0	0	21
22:00	0	9	0	0	0	0	0	0	0	0	0	0	0	9
23:00	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Totals	8	551	39		21									619
% of Totals	1%	89%	6%		3%									100%

AM Volumes	2	227	20	0	10	0	0	0	0	0	0	0	0	259
% AM	0%	37%	3%		2%									42%
AM Peak Hour	09:00	07:00	08:00		08:00									08:00
Volume	2	61	9		3									71
PM Volumes	6	324	19	0	11	0	0	0	0	0	0	0	0	360
% PM	1%	52%	3%		2%									58%
PM Peak Hour	12:00	13:00	12:00		13:00									13:00
Volume	2	47	4		2									53

Directional Peak Periods	AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Classes	Volume		%	Volume		%	Volume		%	Volume		%
	136	↔	22%	89	↔	14%	65	↔	11%	329	↔	53%

Classification Definitions

1 Motorcycles
2 Passenger Cars
3 2-Axle, 4-Tire Single Units
4 Buses
5 2-Axle, 6-Tire Single Units
6 3-Axle Single Units
7 > =4-Axle Single Units
8 <=4-Axle Single Trailers
9 5-Axle Single Trailers
10 >=6-Axle Single Trailers
11 <=5-Axle Multi-Trailers
12 6-Axle Multi-Trailers
13 >=7-Axle Multi-Trailers

ATTACHMENT B – SEPTEMBER 2018 TRAFFIC COUNTS

Prepared by NDS/ATD

VOLUME

Culver Blvd S/O Harter Ave

Day: Thursday
Date: 9/13/2018

City: Culver City
Project #: CA18_5591_002

DAILY TOTALS	NB	SB	EB	WB	Total
	17,633	16,548	0	0	34,181

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	25		34						59		12:00	182		211						393	
00:15	15		27						42		12:15	210		219						429	
00:30	21		24						45		12:30	237		209						446	
00:45	23	84	17	102					40	186	12:45	223	852	205	844					428	1696
01:00	11		11						22		13:00	211		232						443	
01:15	15		10						25		13:15	202		244						446	
01:30	11		12						23		13:30	214		226						440	
01:45	13	50	12	45					25	95	13:45	225	852	221	923					446	1775
02:00	6		6						12		14:00	220		244						464	
02:15	6		8						14		14:15	242		268						510	
02:30	6		5						11		14:30	267		257						524	
02:45	6	24	6	25					12	49	14:45	317	1046	261	1030					578	2076
03:00	6		9						15		15:00	285		269						554	
03:15	17		6						23		15:15	309		266						575	
03:30	9		10						19		15:30	317		266						583	
03:45	18	50	6	31					24	81	15:45	296	1207	280	1081					576	2288
04:00	12		8						20		16:00	306		312						618	
04:15	23		6						29		16:15	324		300						624	
04:30	29		13						42		16:30	318		302						620	
04:45	46	110	17	44					63	154	16:45	338	1286	295	1209					633	2495
05:00	58		20						78		17:00	326		309						635	
05:15	95		32						127		17:15	328		276						604	
05:30	122		42						164		17:30	322		313						635	
05:45	118	393	50	144					168	537	17:45	342	1318	329	1227					671	2545
06:00	104		55						159		18:00	309		325						634	
06:15	150		94						244		18:15	317		316						633	
06:30	201		124						325		18:30	319		340						659	
06:45	236	691	157	430					393	1121	18:45	338	1283	323	1304					661	2587
07:00	261		165						426		19:00	276		259						535	
07:15	263		219						482		19:15	280		333						613	
07:30	323		268						591		19:30	247		268						515	
07:45	340	1187	300	952					640	2139	19:45	234	1037	242	1102					476	2139
08:00	371		319						690		20:00	215		236						451	
08:15	371		348						719		20:15	157		264						421	
08:30	383		309						692		20:30	161		212						373	
08:45	348	1473	324	1300					672	2773	20:45	143	676	181	893					324	1569
09:00	349		264						613		21:00	138		199						337	
09:15	321		260						581		21:15	126		170						296	
09:30	344		225						569		21:30	104		162						266	
09:45	278	1292	229	978					507	2270	21:45	93	461	152	683					245	1144
10:00	255		220						475		22:00	91		121						212	
10:15	235		196						431		22:15	84		98						182	
10:30	205		192						397		22:30	74		101						175	
10:45	237	932	182	790					419	1722	22:45	75	324	77	397					152	721
11:00	225		212						437		23:00	59		67						126	
11:15	204		175						379		23:15	40		48						88	
11:30	194		198						392		23:30	34		58						92	
11:45	217	840	199	784					416	1624	23:45	32	165	57	230					89	395
TOTALS		7126		5625						12751	TOTALS		10507		10923						21430
SPLIT %		55.9%		44.1%						37.3%	SPLIT %		49.0%		51.0%						62.7%

DAILY TOTALS	NB	SB	EB	WB	Total
	17,633	16,548	0	0	34,181

AM Peak Hour	08:00	08:00			08:00	PM Peak Hour	17:00	17:45			17:45
AM Pk Volume	1473	1300			2773	PM Pk Volume	1318	1310			2597
Pk Hr Factor	0.961	0.934			0.964	Pk Hr Factor	0.963	0.963			0.968
7 - 9 Volume	2660	2252	0	0	4912	4 - 6 Volume	2604	2436	0	0	5040
7 - 9 Peak Hour	08:00	08:00			08:00	4 - 6 Peak Hour	17:00	17:00			17:00
7 - 9 Pk Volume	1473	1300	0	0	2773	4 - 6 Pk Volume	1318	1227	0	0	2545
Pk Hr Factor	0.961	0.934	0.000	0.000	0.964	Pk Hr Factor	0.963	0.932	0.000	0.000	0.948

Prepared by NDS/ATD

VOLUME

Culver Blvd S/O Harter Ave

Day: Friday
Date: 9/14/2018

City: Culver City
Project #: CA18_5591_002

DAILY TOTALS	NB	SB	EB	WB	Total
	17,620	16,861	0	0	34,481

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	25		37						62		12:00	200		222						422	
00:15	32		40						72		12:15	205		239						444	
00:30	18		41						59		12:30	200		239						439	
00:45	29	104	31	149					60	253	12:45	225	830	220	920					445	1750
01:00	21		28						49		13:00	242		268						510	
01:15	21		16						37		13:15	197		236						433	
01:30	18		17						35		13:30	229		299						528	
01:45	16	76	17	78					33	154	13:45	256	924	303	1106					559	2030
02:00	15		14						29		14:00	260		335						595	
02:15	7		8						15		14:15	280		291						571	
02:30	12		10						22		14:30	281		269						550	
02:45	13	47	10	42					23	89	14:45	311	1132	274	1169					585	2301
03:00	7		14						21		15:00	311		289						600	
03:15	11		5						16		15:15	321		321						642	
03:30	17		10						27		15:30	317		293						610	
03:45	19	54	4	33					23	87	15:45	309	1258	313	1216					622	2474
04:00	11		10						21		16:00	290		297						587	
04:15	27		11						38		16:15	301		288						589	
04:30	18		15						33		16:30	311		311						622	
04:45	41	97	14	50					55	147	16:45	342	1244	282	1178					624	2422
05:00	50		26						76		17:00	350		314						664	
05:15	82		26						108		17:15	337		346						683	
05:30	110		38						148		17:30	329		299						628	
05:45	114	356	52	142					166	498	17:45	320	1336	327	1286					647	2622
06:00	98		68						166		18:00	304		319						623	
06:15	147		80						227		18:15	329		303						632	
06:30	187		92						279		18:30	278		305						583	
06:45	210	642	148	388					358	1030	18:45	313	1224	306	1233					619	2457
07:00	250		187						437		19:00	275		296						571	
07:15	257		208						465		19:15	238		280						518	
07:30	332		256						588		19:30	185		255						440	
07:45	296	1135	279	930					575	2065	19:45	209	907	252	1083					461	1990
08:00	350		339						689		20:00	197		226						423	
08:15	285		305						590		20:15	187		203						390	
08:30	406		302						708		20:30	177		170						347	
08:45	379	1420	298	1244					677	2664	20:45	157	718	178	777					335	1495
09:00	357		266						623		21:00	103		170						273	
09:15	318		228						546		21:15	119		131						250	
09:30	245		210						455		21:30	124		142						266	
09:45	275	1195	233	937					508	2132	21:45	112	458	128	571					240	1029
10:00	238		199						437		22:00	113		150						263	
10:15	214		207						421		22:15	102		127						229	
10:30	242		200						442		22:30	94		139						233	
10:45	222	916	181	787					403	1703	22:45	81	390	96	512					177	902
11:00	209		174						383		23:00	93		83						176	
11:15	249		162						411		23:15	64		75						139	
11:30	196		217						413		23:30	67		66						133	
11:45	225	879	196	749					421	1628	23:45	54	278	57	281					111	559
TOTALS		6921		5529						12450	TOTALS		10699		11332						22031
SPLIT %		55.6%		44.4%						36.1%	SPLIT %		48.6%		51.4%						63.9%

DAILY TOTALS	NB	SB	EB	WB	Total
	17,620	16,861	0	0	34,481

AM Peak Hour	08:30	08:00			08:00	PM Peak Hour	16:45	17:15			17:00
AM Pk Volume	1460	1244			2664	PM Pk Volume	1358	1291			2622
Pk Hr Factor	0.899	0.917			0.941	Pk Hr Factor	0.970	0.933			0.960
7 - 9 Volume	2555	2174	0	0	4729	4 - 6 Volume	2580	2464	0	0	5044
7 - 9 Peak Hour	08:00	08:00			08:00	4 - 6 Peak Hour	16:45	17:00			17:00
7 - 9 Pk Volume	1420	1244	0	0	2664	4 - 6 Pk Volume	1358	1286	0	0	2622
Pk Hr Factor	0.874	0.917	0.000	0.000	0.941	Pk Hr Factor	0.970	0.929	0.000	0.000	0.960

Prepared by NDS/ATD

VOLUME

Harter Ave E/O Culver Blvd

Day: Thursday
Date: 9/20/2018

City: Culver City
Project #: CA18_5591_001

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	737	730	1,467

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			0		0		0		12:00			10		6		16	
00:15			2		0		2		12:15			3		9		12	
00:30			2		0		2		12:30			5		5		10	
00:45			2	6	1	1	3	7	12:45			7	25	7	27	14	52
01:00			2		0		2		13:00			9		13		22	
01:15			0		0		0		13:15			6		9		15	
01:30			0		0		0		13:30			8		6		14	
01:45			0	2	2	2	2	4	13:45			8	31	6	34	14	65
02:00			0		0		0		14:00			11		7		18	
02:15			0		0		0		14:15			11		15		26	
02:30			0		0		0		14:30			10		9		19	
02:45			1	1	0		1	1	14:45			13	45	9	40	22	85
03:00			0		0		0		15:00			14		19		33	
03:15			1		1		2		15:15			18		11		29	
03:30			1		0		1		15:30			9		8		17	
03:45			1	3	1	2	2	5	15:45			18	59	11	49	29	108
04:00			0		0		0		16:00			12		11		23	
04:15			0		0		0		16:15			14		6		20	
04:30			2		0		2		16:30			20		10		30	
04:45			0	2	0		0	2	16:45			26	72	13	40	39	112
05:00			0		1		1		17:00			21		16		37	
05:15			0		1		1		17:15			22		10		32	
05:30			1		1		2		17:30			34		15		49	
05:45			0	1	2	5	2	6	17:45			28	105	13	54	41	159
06:00			2		2		4		18:00			29		15		44	
06:15			1		3		4		18:15			31		9		40	
06:30			5		3		8		18:30			12		8		20	
06:45			1	9	8	16	9	25	18:45			13	85	16	48	29	133
07:00			2		9		11		19:00			15		13		28	
07:15			6		17		23		19:15			13		4		17	
07:30			6		35		41		19:30			8		5		13	
07:45			19	33	43	104	62	137	19:45			8	44	7	29	15	73
08:00			13		21		34		20:00			7		25		32	
08:15			8		36		44		20:15			4		10		14	
08:30			21		21		42		20:30			6		6		12	
08:45			24	66	25	103	49	169	20:45			10	27	7	48	17	75
09:00			8		16		24		21:00			7		8		15	
09:15			6		10		16		21:15			4		9		13	
09:30			5		10		15		21:30			8		6		14	
09:45			4	23	10	46	14	69	21:45			4	23	3	26	7	49
10:00			4		5		9		22:00			2		3		5	
10:15			4		7		11		22:15			12		5		17	
10:30			7		4		11		22:30			2		0		2	
10:45			8	23	6	22	14	45	22:45			3	19	0	8	3	27
11:00			9		9		18		23:00			0		1		1	
11:15			7		5		12		23:15			1		2		3	
11:30			4		4		8		23:30			2		0		2	
11:45			7	27	5	23	12	50	23:45			3	6	0	3	3	9
TOTALS				196		324		520	TOTALS				541		406		947
SPLIT %				37.7%		62.3%		35.4%	SPLIT %				57.1%		42.9%		64.6%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	737	730	1,467

AM Peak Hour			08:00	07:30	07:45	PM Peak Hour			17:30	16:45	17:30
AM Pk Volume			66	135	182	PM Pk Volume			122	54	174
Pk Hr Factor			0.688	0.785	0.734	Pk Hr Factor			0.897	0.844	0.888
7 - 9 Volume	0	0	99	207	306	4 - 6 Volume	0	0	177	94	271
7 - 9 Peak Hour			08:00	07:30	07:45	4 - 6 Peak Hour			17:00	16:45	17:00
7 - 9 Pk Volume	0	0	66	135	182	4 - 6 Pk Volume	0	0	105	54	159
Pk Hr Factor	0.000	0.000	0.688	0.785	0.734	Pk Hr Factor	0.000	0.000	0.772	0.844	0.811

Prepared by NDS/ATD

VOLUME

Harter Ave E/O Culver Blvd

Day: Friday
Date: 9/21/2018

City: Culver City
Project #: CA18_5591_001

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	747	720	1,467

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			0		0		0		12:00			5		10		15	
00:15			0		0		0		12:15			7		14		21	
00:30			3		1		4		12:30			6		15		21	
00:45			0	3	1	2	1	5	12:45			12	30	13	52	25	82
01:00			0		0		0		13:00			10		10		20	
01:15			0		2		2		13:15			7		6		13	
01:30			0		0		0		13:30			5		10		15	
01:45			0		0	2	0	2	13:45			11	33	12	38	23	71
02:00			0		1		1		14:00			23		6		29	
02:15			0		0		0		14:15			15		10		25	
02:30			0		0		0		14:30			11		9		20	
02:45			0		0	1	0	1	14:45			10	59	12	37	22	96
03:00			1		1		2		15:00			15		15		30	
03:15			0		0		0		15:15			15		12		27	
03:30			0		0		0		15:30			17		7		24	
03:45			0	1	0	1	0	2	15:45			14	61	10	44	24	105
04:00			0		0		0		16:00			14		10		24	
04:15			0		0		0		16:15			22		12		34	
04:30			1		0		1		16:30			13		9		22	
04:45			0	1	0		0	1	16:45			21	70	12	43	33	113
05:00			1		2		3		17:00			19		14		33	
05:15			0		1		1		17:15			30		9		39	
05:30			1		1		2		17:30			37		5		42	
05:45			1	3	0	4	1	7	17:45			9	95	10	38	19	133
06:00			3		1		4		18:00			20		13		33	
06:15			2		6		8		18:15			22		7		29	
06:30			2		4		6		18:30			19		6		25	
06:45			5	12	16	27	21	39	18:45			10	71	6	32	16	103
07:00			5		15		20		19:00			14		4		18	
07:15			3		19		22		19:15			16		10		26	
07:30			8		18		26		19:30			19		13		32	
07:45			20	36	29	81	49	117	19:45			12	61	5	32	17	93
08:00			13		24		37		20:00			8		10		18	
08:15			9		17		26		20:15			10		9		19	
08:30			10		16		26		20:30			11		5		16	
08:45			8	40	17	74	25	114	20:45			7	36	6	30	13	66
09:00			4		20		24		21:00			5		7		12	
09:15			5		12		17		21:15			8		5		13	
09:30			8		10		18		21:30			9		16		25	
09:45			6	23	10	52	16	75	21:45			10	32	19	47	29	79
10:00			7		11		18		22:00			9		10		19	
10:15			6		5		11		22:15			6		7		13	
10:30			6		9		15		22:30			5		2		7	
10:45			7	26	6	31	13	57	22:45			2	22	1	20	3	42
11:00			6		6		12		23:00			3		1		4	
11:15			5		10		15		23:15			5		0		5	
11:30			5		8		13		23:30			2		1		3	
11:45			6	22	5	29	11	51	23:45			0	10	1	3	1	13
TOTALS				167		304		471	TOTALS				580		416		996
SPLIT %				35.5%		64.5%		32.1%	SPLIT %				58.2%		41.8%		67.9%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	747	720	1,467

AM Peak Hour			07:45	07:15	07:30	PM Peak Hour			16:45	12:00	16:45
AM Pk Volume			52	90	138	PM Pk Volume			107	52	147
Pk Hr Factor			0.650	0.776	0.704	Pk Hr Factor			0.723	0.867	0.875
7 - 9 Volume	0	0	76	155	231	4 - 6 Volume	0	0	165	81	246
7 - 9 Peak Hour			07:45	07:15	07:30	4 - 6 Peak Hour			16:45	16:15	16:45
7 - 9 Pk Volume	0	0	52	90	138	4 - 6 Pk Volume	0	0	107	47	147
Pk Hr Factor	0.000	0.000	0.650	0.776	0.704	Pk Hr Factor	0.000	0.000	0.723	0.839	0.875

ATTACHMENT C – SEPTEMBER 2018 PEDESTRIAN COUNTS

Prepared by National Data & Surveying Services

Pedestrian Study

Location: Harter Ave & Culver Blvd
City: Culver City

Date: 9/13/2018
Day: Thursday

TIME	Peds								
	North Leg		South Leg		East Leg		West Leg		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	***0***
7:15 AM	0	0	0	0	0	0	0	0	***0***
7:30 AM	1	0	0	0	1	0	0	0	***2***
7:45 AM	1	0	1	0	0	0	0	0	***2***
8:00 AM	0	0	0	0	0	1	0	0	***1***
8:15 AM	0	0	0	0	0	0	0	0	***0***
8:30 AM	0	0	0	2	0	1	0	0	***3***
8:45 AM	0	0	0	0	1	0	0	0	***1***
Total	**2**	**0**	**1**	**2**	**2**	**2**	**0**	**0**	**9**
2:45 PM	0	3	0	0	0	0	0	0	***3***
3:00 PM	0	2	0	0	0	0	0	0	***2***
3:15 PM	0	0	0	0	0	1	0	0	***1***
3:30 PM	0	2	0	0	0	3	0	0	***5***
3:45 PM	6	0	0	0	0	0	0	0	***6***
4:00 PM	0	3	0	0	0	3	0	0	***6***
4:15 PM	0	0	1	0	0	0	2	0	***3***
4:30 PM	0	0	0	0	1	0	0	0	***1***
Total	**6**	**10**	**1**	**0**	**1**	**7**	**2**	**0**	**27**
Grand Total	**8**	**10**	**2**	**2**	**3**	**9**	**2**	**0**	**36**

ATTACHMENT D – SIGNAL WARRANT ANALYSIS WORKSHEETS

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 2 of 5)

WARRANT 2 - Four Hour Vehicular Volume **SATISFIED* YES ☐ NO ☐**

Record hourly vehicular volumes for any four hours of an average day.

APPROACH LANES	One	2 or More					Hour
Both Approaches - Major Street							
Higher Approach - Minor Street							

*All plotted points fall above the applicable curve in Figure 4C-1. (URBAN AREAS)	Yes ☐	No ☐
OR, All plotted points fall above the applicable curve in Figure 4C-2. (RURAL AREAS)	Yes ☐	No ☐

WARRANT 3 - Peak Hour **SATISFIED YES ☐ NO ☐**
(Part A or Part B must be satisfied)

PART A **SATISFIED YES ☐ NO ☐**

(All parts 1, 2, and 3 below must be satisfied for the same one hour, for any four consecutive 15-minute periods)

1. The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; AND	Yes ☐	No ☐
2. The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; AND	Yes ☐	No ☐
3. The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	Yes ☐	No ☐

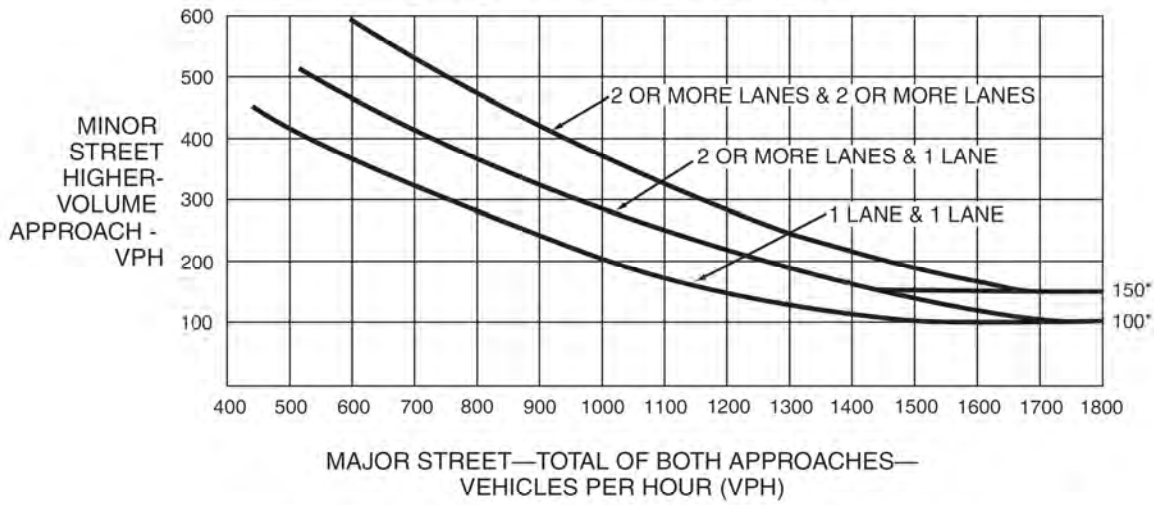
PART B **SATISFIED YES ☐ NO ☐**

APPROACH LANES	One	2 or More		Hour
Both Approaches - Major Street				
Higher Approach - Minor Street				

The plotted point falls above the applicable curve in Figure 4C-3. (URBAN AREAS)	Yes ☐	No ☐
OR, The plotted point falls above the applicable curve in Figure 4C-4. (RURAL AREAS)	Yes ☐	No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

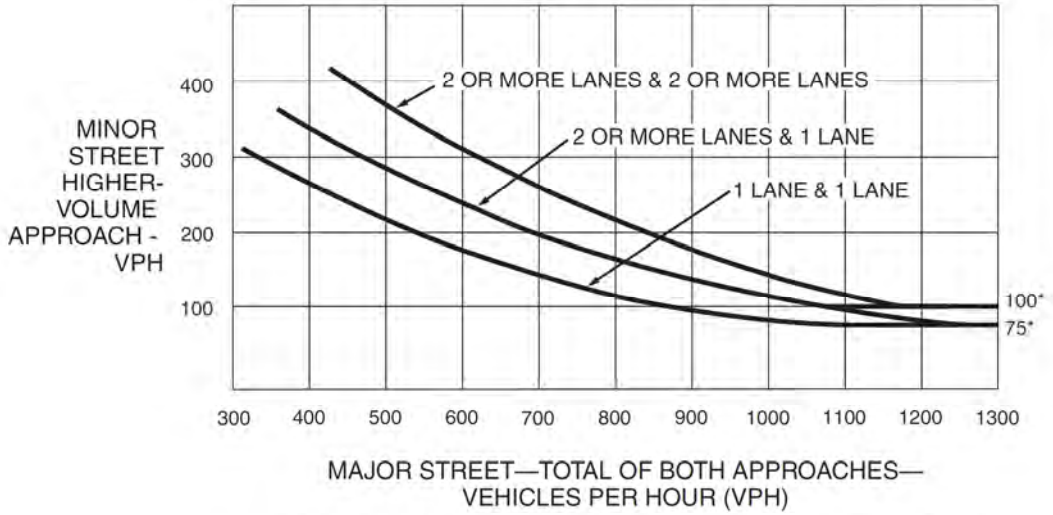
Figure 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

G TRIBAL MITIGATION MEASURES

Gabrieleno Band of Mission Indians – Kizh Nation

Protection of Tribal Cultural Resources (TCRs)

Most Important Things for Agencies to Know About AB52:

- An EIR, MND, or ND can not be certified until AB-52 tribal consultation has concluded.
- Agreed mitigation measures with the tribe, MUST be recommended for inclusion in the environmental document.
- Signature confirming acceptance of these mitigation measures recommended by our Tribal Government is required within 14 days of receipt to conclude AB52 consultation.

Tribal Cultural Resources Mitigation Measures within Kizh Nation Tribal Territory:

Note: To avoid compliance issues with the following laws, all Native American Monitoring shall be conducted by a documented lineal descendant from the ancestral Tribe of the project area (NAGPRA Law 10.14)

- The Native American Graves Protection and Repatriation Act (NAGPRA), Public Law-101-601, 25 U.S.C. 3001 et seq., 104 Stat. 3048.
- CEQA Guidelines Section15064.5, PRC 5097.98 (d)(1).
- The United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP).

If you are receiving these measures, The Gabrieleño Band of Mission Indians Kizh -Nation are the direct lineal descendants of your project area. The Kizh Nation ONLY responds and consults on projects within their ANCESTRAL tribal territory. Therefore, to remain in compliance with above referenced laws and to enable our Tribe with the ability to protect and preserve our last remaining and irreplaceable Tribal Cultural Resources, it is recommended that the project applicant retain a qualified professional tribal monitor/consultant from the Gabrieleño Band of Mission Indians Kizh -Nation. The Kizh Nation possesses Tribal archives including documented historical information as well as multiple members who possess unique knowledge derived from oral tradition passed down through generations of the Tribe in order to provide the expertise needed to identify whether a project is located within a culturally sensitive area given its proximity to village areas, commerce areas, recreation areas, ceremonial areas, and burial locations.

Native American Heritage Commission (NAHC) Guidelines for Native American Monitors/Consultants (approved 9/13/05): By acting as a liaison between Native American, archaeologist, developers, contactors and public agency, a Native American monitor/consultant can ensure that cultural features are treated appropriately from the Native American point of view. This can help others involved in a project to coordinate mitigation measures. These guidelines are intended to provide prospective monitors/consultants, and people who hire monitors/consultants, with an understanding of the scope and extant of knowledge that should be expected.

Mitigation Guidelines for Tribal Cultural Resources (TCRs): CEQA now defines TCRs as an independent element separate from archaeological resources. Environmental documents shall address a separate Tribal Cultural Resources section that includes a thorough analysis of the impacts to only TCRs and includes separate and independent mitigation measures created with tribal input under AB-52 consultations. Therefore, all agreements, mitigation, and conditions of approval regarding TCRs shall be handled solely with the Tribal Government and conversely all agreements, mitigation, and conditions of approval regarding Archaeological Resources shall be handled by an Archaeological resource company.

MITIGATION MEASURES

Retain a Native American Monitor/Consultant: The Project Applicant shall be required to retain and compensate for the services of a Tribal monitor/consultant who is both approved by the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government and is listed under the NAHC's Tribal Contact list for the area of the project location. This list is provided by the NAHC. The monitor/consultant will only be present on-site during the construction phases that involve ground disturbing activities. Ground disturbing activities are defined by the Gabrieleño Band of Mission Indians-Kizh Nation as activities that may include, but are not limited to, pavement removal, pot-holing or auguring, grubbing, tree removals, boring, grading, excavation, drilling, and trenching, within the project area. The Tribal Monitor/consultant will complete daily monitoring logs that will provide descriptions of the day's activities, including construction activities, locations, soil, and any cultural materials identified. The on-site monitoring shall end when the project site grading and excavation activities are completed, or when the Tribal Representatives and monitor/consultant have indicated that the site has a low potential for impacting Tribal Cultural Resources.

Unanticipated Discovery of Tribal Cultural and Archaeological Resources: Upon discovery of any archaeological resources, cease construction activities in the immediate vicinity of the find until the find can be assessed. All archaeological resources unearthed by project construction activities shall be evaluated by the qualified archaeologist and tribal monitor/consultant approved by the Gabrieleño Band of Mission Indians-Kizh Nation. If the resources are Native American in origin, the Gabrieleño Band of Mission Indians-Kizh Nation shall coordinate with the landowner regarding treatment and curation of these resources. Typically, the Tribe will request reburial or preservation for educational purposes. Work may continue on other parts of the project while evaluation and, if necessary, mitigation takes place (CEQA Guidelines Section15064.5 [f]). If a resource is determined by the qualified archaeologist to constitute a "historical resource" or "unique archaeological resource", time allotment and funding sufficient to allow for implementation of avoidance measures, or appropriate mitigation, must be available. The treatment plan established for the resources shall be in accordance with CEQA Guidelines Section 15064.5(f) for historical resources and

Public Resources Code Sections 21083.2(b) for unique archaeological resources. Preservation in place (i.e., avoidance) is the preferred manner of treatment. If preservation in place is not feasible, treatment may include implementation of archaeological data recovery excavations to remove the resource along with subsequent laboratory processing and analysis. Any historic archaeological material that is not Native American in origin shall be curated at a public, non-profit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution agrees to accept the material. If no institution accepts the archaeological material, they shall be offered to a local school or historical society in the area for educational purposes.

Unanticipated Discovery of Human Remains and Associated Funerary Objects:
Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in PRC 5097.98, are also to be treated according to this statute. Health and Safety Code 7050.5 dictates that any discoveries of human skeletal material shall be immediately reported to the County Coroner and excavation halted until the coroner has determined the nature of the remains. If the coroner recognizes the human remains to be those of a Native American or has reason to believe that they are those of a Native American, he or she shall contact, by telephone within 24 hours, the Native American Heritage Commission (NAHC) and PRC 5097.98 shall be followed.

Resource Assessment & Continuation of Work Protocol:
Upon discovery, the tribal and/or archaeological monitor/consultant/consultant will immediately divert work at minimum of 150 feet and place an exclusion zone around the burial. The monitor/consultant(s) will then notify the Tribe, the qualified lead archaeologist, and the construction manager who will call the coroner. Work will continue to be diverted while the coroner determines whether the remains are Native American. The discovery is to be kept confidential and secure to prevent any further disturbance. If the finds are determined to be Native American, the coroner will notify the NAHC as mandated by state law who will then appoint a Most Likely Descendent (MLD).

Kizh-Gabrieleno Procedures for burials and funerary remains:
If the Gabrieleno Band of Mission Indians – Kizh Nation is designated MLD, the following treatment measures shall be implemented. To the Tribe, the term "human remains" encompasses more than human bones. In ancient as well as historic times, Tribal Traditions included, but were not limited to, the burial of funerary objects with the deceased, and the ceremonial burning of human remains. These remains are to be treated in the same manner as bone fragments that remain intact. Associated funerary objects are objects that, as part of the death rite or ceremony of a culture, are reasonably believed to have been placed with individual human remains either at the time of death or later; other items made exclusively for burial purposes or to contain human remains can also be considered as associated funerary objects.

Treatment Measures:
Prior to the continuation of ground disturbing activities, the land owner shall arrange a designated site location within the footprint of the project for the respectful reburial of the human remains and/or ceremonial objects. In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains will be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours. The Tribe will make every effort to recommend diverting the project and keeping the remains in situ and protected. If the project cannot be diverted, it may be determined that burials will be removed. The Tribe will work closely with the qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully. If data recovery is approved by the Tribe, documentation shall be taken which includes at a minimum detailed descriptive notes and sketches. Additional types of documentation shall be approved by the Tribe for data recovery purposes. Cremations will either be removed in bulk or by means as necessary to ensure completely recovery of all material. If the discovery of human remains includes four or more burials, the location is considered a cemetery and a separate treatment plan shall be created. Once complete, a final report of all activities is to be submitted to the Tribe and the NAHC. The Tribe does NOT authorize any scientific study or the utilization of any invasive diagnostics on human remains.

Each occurrence of human remains and associated funerary objects will be stored using opaque cloth bags. All human remains, funerary objects, sacred objects and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within six months of recovery. The site of reburial/repatriation shall be on the project site but at a location agreed upon between the Tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered.

Professional Standards: Archaeological and Native American monitoring and excavation during construction projects will be consistent with current professional standards. All feasible care to avoid any unnecessary disturbance, physical modification, or separation of human remains and associated funerary objects shall be taken. Principal personnel must meet the Secretary of Interior standards for archaeology and have a minimum of 10 years of experience as a principal investigator working with Native American archaeological sites in southern California. The Qualified Archaeologist shall ensure that all other personnel are appropriately trained and qualified.

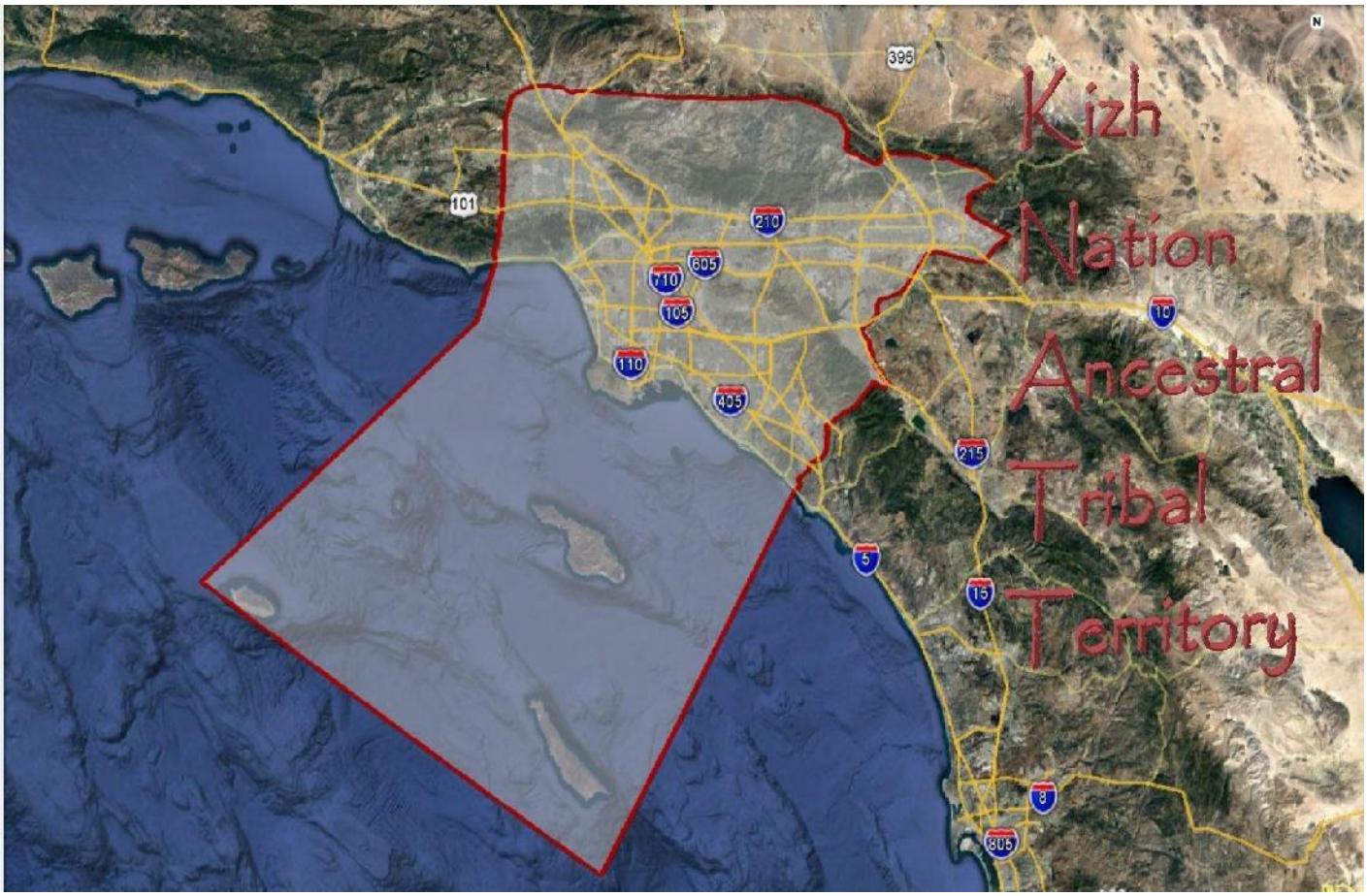
Acceptance of Tribal Government Recommended Mitigation Measures:

By _____ Date: _____
Lead Agency Representative Signature

Revised: August 2018

Attachment A

Kizh Nation Ancestral Tribal Territory extended along the coast from Malibu Creek in Los Angeles County down to Aliso Creek in Orange County and encompassed the Channel Islands of Catalina (Pimugna), San Nicolas (Haraasnga), and San Clemente (Kiinkenga). Our inland border was the San Gabriel Mountains (Hidakupa) and eastwardly our territory extended to parts of San Bernardino (Waatsngna), Orange, and Riverside counties.



H ENVIRONMENTAL RECORDS REVIEW

Job No. T38173

Environmental Records Review, Culver Boulevard Realignment and Stormwater Treatment Project, Culver City, California

Prepared for:

Lee Torres, P.E.
Environmental Programs
City of Culver City
Public Works Department
Oxnard, California 93030
9505 W. Jefferson Blvd.

Prepared by:

Tetra Tech, Inc.
5383 Hollister Avenue, Suite 130
Santa Barbara, California 93111
Culver City, CA 90232

January 18, 2019

THIS PAGE INTENTIONALLY LEFT BLANK

TABLE OF CONTENTS

1.0 INTRODUCTION 1
- 1.1 SUMMARY 1
- 1.2 PURPOSE AND SCOPE 1
- 1.3 METHODS OF INVESTIGATION 2
- 1.4 SITE LOCATION 2
- 1.5 PROJECT DESCRIPTION SUMMARY 3

2.0 HISTORICAL RECORDS REVIEW 5
- 2.1 SANBORN MAP AND CITY DIRECTORY REVIEW 5
- 2.2 CITY DIRECTORY REVIEW 5
- 2.3 TOPOGRAPHIC MAP REVIEW 6
- 2.4 AERIAL PHOTOGRAPH REVIEW 8
- 2.5 AGENCY RECORDS REVIEW 10
  - 2.5.1 California Department of Conservation, Division of Oil, Gas, and Geothermal Resources 10
  - 2.5.2 California State Water Resources Control Board 10
  - 2.5.3 Department of Toxic Substances Control 11

3.0 ENVIRONMENTAL RECORDS REVIEW 13
- 3.1 ON-SITE EDR LISTINGS 13
  - 3.1.1 EDR Listing A1 for Tuneup Masters at 4246 Sepulveda Boulevard 13
  - 3.1.2 EDR Listings A2, A 3, and A5 for the Tuneup Masters Shop #69 at 4246 South Sepulveda Boulevard 13
  - 3.1.3 EDR Listing A4 for Mike Karagoein at 4246 Sepulveda Boulevard 14
  - 3.1.4 EDR Listing A6 for Automotive Tech, Inc. DBA as XPERT Tune at 4246 South Sepulveda Boulevard 14
  - 3.1.5 EDR Listing A7 for the Tuneup Masters Shop #69 at 4246 South Sepulveda Boulevard 14
  - 3.1.6 EDR Listing A8 for the Tuneup Masters Shop #69 at 4246 South Sepulveda Boulevard 15
  - 3.1.7 EDR Listing B9 for Perez Jose Foreign Car at 4301 South Sepulveda Boulevard 15
  - 3.1.8 EDR Listing A10 for Palm Tree Gas and Car Wash at 11182 Culver Boulevard 15
  - 3.1.9 EDR Listing A11 for Palm Tree Gas N Wash at 11182 Culver Boulevard 15
- 3.2 SITE-ADJACENT EDR LISTINGS 15
  - 3.2.1 EDR Listing A12 for Lindquist Motors, Inc. at 4235 Sepulveda Boulevard 16
  - 3.2.2 EDR Listing A13 for Foggerts, Inc. at 4235 Sepulveda Boulevard 16
  - 3.2.3 EDR Listing B14 for Ed Little Auto Service at 4318 Sepulveda Boulevard 16
  - 3.2.4 EDR Listing A15 for Bernard's Property at 4228 Sepulveda Boulevard 16

4.0 CONCLUSIONS 17

5.0 RECOMMENDATION 19

6.0 DISCLAIMER 21

7.0 REFERENCES 23

APPENDICES

A HISTORICAL TOPOGRAPHIC MAPS
B HISTORICAL AERIAL PHOTOGRAPHS
C AGENCY/UTILITY CONTACT DOCUMENTATION
D ENVIRONMENTAL DATABASE REPORT

LIST OF FIGURE

1 Vicinity Map

LIST OF TABLES

1 Site EDR City Directory Listings (embedded on pages 5 and 6)

1.0 INTRODUCTION

1.1 SUMMARY

This report presents the findings of an Environmental Records Review (ERR) prepared for Culver City (City) by Tetra Tech to in response to comments received by the City from the California Department of Toxic Substance Control (DTSC) on the *Draft Initial Study/Mitigated Negative Declaration for the Culver Boulevard Realignment and Stormwater Treatment Project, Culver City, California* (Tetra Tech 2018) in a letter dated December 21, 2018 (DTSC 2018). The Site location and vicinity is shown on Figure 1.

1.2 PURPOSE AND SCOPE

The purpose of this ERR was to address Comments 1 through 4 of the DTSC comment letter. The comments are:

1. The document needs to identify and determine whether current or historic uses at the project site have resulted in any release of hazardous wastes/substances at the project area.

2. The document needs to identify any known or potentially contaminated site within the proposed project area. For all identified sites, the document needs to evaluate whether conditions at the site pose a threat to human health or the environment.

3. The document should identify the mechanism to initiate any required investigation and/or remediation for any site that may require remediation, and which government agency will provide appropriate regulatory oversight.

4. If during construction of the project, soil contamination is suspected, construction in the area should stop and appropriate health and safety procedures should be implemented. If it is determined that contaminated soil exists, the document should identify how any required investigation or remediation will be conducted, and which government agency will provide appropriate regulatory oversight.

The scope of services performed for this project included the following tasks:

- Research and review of pertinent and readily available historical aerial photographs and topographic maps of the Site and surrounding area;

- Interaction with appropriate regional and state agencies to review available records and permits;

- Acquisition and review of a regulatory agency database report; and

- Preparation and submittal of this report summarizing the results of the ERR and presenting interpretations and recommendations.

1.3 METHODS OF INVESTIGATION

Topographic Map Review. Historical topographic maps obtained through Environmental Data Resources, Inc. (EDR) (EDR 2019) were reviewed to evaluate past land use and site development. These topographic maps are provided in Appendix A.

Aerial Photograph Survey. Historical aerial photographs obtained through EDR were reviewed and incorporated into this report (EDR 2019). This review consisted of examining the photographs for evidence of previous activities that may affect the environmental condition of the Site. The aerial photographs are provided in Appendix B.

Agency Contacts. During the course of this assessment, the following agencies/organizations were contacted via email, telephone, personal interviews, and/or record searches for information relating to the Site:

- California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR);
- California Environmental Protection Agency (Cal EPA), Department of Toxic Substances Control (DTSC);
- State Water Resources Control Board (SWRCB);

Documentation of these contacts is provided in Appendix C.

Regulatory Agency Database and Sanborn Map Search. EDR maintains comprehensive environmental information databases and historical information, including Sanborn Maps, City Directories, and Building Permits, and specializes in providing such data for use in real estate and environmental documents. EDR performed a search of multiple databases containing specific government records, each within a prescribed search radius of the Site. The search radii varied from 0.25 to 1 mile depending on the database. The specific search radii for each database are listed in the EDR report (Appendix D). EDR also reviewed their Sanborn Map and City Directory collection for coverage in the Site area (EDR 2019).

1.4 SITE LOCATION

The project site is located in the City of Culver City, Los Angeles County, on an approximate 0.45-mile length of Culver Boulevard, between Sepulveda Boulevard and Elenda Street. A project vicinity map is provided as Figure 1. The existing street has 180-feet right-of-way and is configured with a 60-feet wide parkway and residential roadway on the north side, a 60-feet center island greenbelt, and another 60-feet arterial roadway and parkway on the south side. The south side carries almost all the through traffic on two lanes in each direction with narrow parking on 1 side only. At Culver Boulevard and Harter Avenue intersection there is no signal. At the existing Culver Boulevard and Huron Avenue intersection, the signal is semi-actuated with only northbound approach lane having detection.

Culver Boulevard, within the project limits, is classified as a Primary Arterial in the General Plan Circulation Element with a posted speed limit of 40 miles per hour. Culver Boulevard's configuration west of Elenda Street and east of Sepulveda Boulevard mainly consists of a 50-foot wide main roadway with two lanes in each direction and parking on the south side, a local 50-foot wide roadway known as "little" or "north" Culver Boulevard with one lane in each direction and parking on both sides, a 60-foot

wide landscaped bicycle/pedestrian median (formerly the Southern Pacific Transportation Company property) separating the two roadways, and a 10-foot wide parkway on each side.

The main roadway is the southern third of the 180-foot wide street right-of-way; "little" Culver Boulevard is in the northern third; and the median constitutes the middle third of the right-of-way.

1.5 PROJECT DESCRIPTION SUMMARY

The City of Culver City (City) Department of Public Works desires to construct the proposed project. The Culver Boulevard realignment portion of the project is the continuation of the widening of Culver Boulevard that was completed by Caltrans as part of the 405 Freeway widening in 2009. The proposed project would improve the efficiency of traffic flow and provide for a safer and more aesthetically pleasing street. The eastbound and westbound lanes of traffic are proposed to be separated with a new raised median. New traffic signals are proposed at the intersections of Harter Avenue and Huron Avenue.

THIS PAGE INTENTIONALLY LEFT BLANK

2.0 HISTORICAL RECORDS REVIEW

Past uses of the Site and surrounding properties were evaluated by reviewing available historical map coverage, historical aerial photographs, and information obtained from various agencies identified in Section 1.3. The information collected is summarized in the following sections.

2.1 SANBORN MAP AND CITY DIRECTORY REVIEW

While the geographic coverage of Sanborn Maps is comprehensive for many major cities, many rural areas and small towns are not covered. There were no Sanborn Maps for the Site area in the EDR collection (EDR 2019).

2.2 CITY DIRECTORY REVIEW

A City Directory report provided by EDR (EDR 2019) was reviewed. The addresses for the Site area listed in Table 1 were researched for the years between 1954 and 2014.

Table 1
Site EDR City Directory Listings

Year	Address	Street	Occupant	Source
2000	4049	Coogan	No Listing Provided	Haines & Company
2006	4049	Coogan	No Listing Provided	Haines Co., Inc.
2014	4234	Sepulveda Boulevard	Culver City Home Brewing Supply	EDR Digital Archive
2000	4236	Sepulveda Boulevard	L A Pizza, Inc.	Haines & Company
2006	4236	Sepulveda Boulevard	L A Pizza, Inc.	Haines Co., Inc.
2010	4236	Sepulveda Boulevard	JR Pizza, Inc.	EDR Digital Archive
2010	4236	Sepulveda Boulevard	L A Pizza, Inc.	EDR Digital Archive
1954	4246	Sepulveda Boulevard	Staples Realtor	R. L. Polk & Co.
1962	4246	Sepulveda Boulevard	Felix John Staples Realtor	Pacific Telephone
1962	4246	Sepulveda Boulevard	Graves Ean I Staples Reator	Pacific Telephone
1962	4246	Sepulveda Boulevard	Staples Reator	Pacific Telephone
1965	4246	Sepulveda Boulevard	Staples Reator	Pacific Telephone
1980	4246	Sepulveda Boulevard	Culver City	Pacific Telephone
1981	4246	Sepulveda Boulevard	Tunup Masters	Pacific Telephone
1986	4246	Sepulveda Boulevard	Tunup Masters Culver City CC	Pacific Bell
1990	4246	Sepulveda Boulevard	Tunup Masters	Pacific Bell
1991	4246	Sepulveda Boulevard	Culver City	Pacific Bell
1991	4246	Sepulveda Boulevard	Tunup Masters	Pacific Bell
2000	4246	Sepulveda Boulevard	Check Engin Tune & Lube	Haines & Company
2000	4246	Sepulveda Boulevard	Expert Tune	Haines & Company
2000	4246	Sepulveda Boulevard	Karagozian Miron	Haines & Company
2000	4246	Sepulveda Boulevard	Xpert Tune	Haines & Company
2006	4246	Sepulveda Boulevard	Tunup Masters	Haines Co., Inc.
2010	4246	Sepulveda Boulevard	Avis Rent a Car System	EDR Digital Archive
2010	4246	Sepulveda Boulevard	Lamelfachi LLC	EDR Digital Archive
2014	4246	Sepulveda Boulevard	Avis Rent a Car System	EDR Digital Archive

Table 1
Site EDR City Directory Listings
(continued)

Year	Address	Street	Occupant	Source
2014	4300	Sepulveda Boulevard	Sepulveda Anmimal Hospital Inc.	EDR Digital Archive
1954	4301	Sepulveda Boulevard	Culver & Sepulveda Shell Service	R. L. Polk & Co.
1975	4301	Sepulveda Boulevard	Kangs S Shell Services	Pacific Telephone
1980	4301	Sepulveda Boulevard	Foreign Car Sevice	Pacific Telephone
1980	4301	Sepulveda Boulevard	Perez Jose Foreign Car Service	Pacific Telephone
1985	4301	Sepulveda Boulevard	Perez Jose Foreign Car Service	Pacific Bell
1991	4301	Sepulveda Boulevard	J P Import Malibu	Pacific Bell
1991	4301	Sepulveda Boulevard	JP Foreign Car Services	Pacific Bell
2000	4301	Sepulveda Boulevard	Hlivyak John	Haines & Company
2000	4301	Sepulveda Boulevard	J P Foreign Car Service	Haines & Company
2006	4301	Sepulveda Boulevard	J P Foreign Car Service	Haines Co., Inc.
2006	4301	Sepulveda Boulevard	Service	Haines Co., Inc.
2010	4301	Sepulveda Boulevard	Perez Jose Foreign Car	EDR Digital Archive

The City Directory data indicates that the following gas stations and vehicle service businesses were located on Site Properties:

- Tunup Masters, Check Engin Tune & Lube, Expert Tune, Karagozian Miron, Xpert Tune were located at 4246 Sepulveda Boulevard; and

- Culver & Sepulveda Shell Service, Kangs S Shell Services, Foreign Car Sevice, Perez Jose Foreign Car Service, J P Import Malibu, and JP Foreign Car Services were located at 4301 Sepulveda Boulevard.

Additional information on the gas stations and vehicle service businesses located on these and other Site properties in provided in Section 3.1.

2.3 TOPOGRAPHIC MAP REVIEW

The following historical United States Geological Survey (USGS) topographic maps were obtained from EDR (EDR 2019): Los Angeles 15-Minute Topographic Series dated 1894, Santa Monica and South Redondo 15-Minute Topographic Series dated 1896, Santa Monica 15-Minute Topographic Series dated 1898, Los Angeles 15-Minute Topographic Series dated 1900, Santa Monica 15-Minute Topographic Series dated 1902, 1920, and 1921, the Sawtelle 7.5-Minute Topographic Series dated 1925 combined with the NE Hollywood 7.5-Minute Topographic Series dated 1926, the Sawtelle 7.5-Minute Topographic Series dated 1934 combined with the SE Inglewood 7.5-Minute Topographic Series dated 1930 and SW Venice 7.5-Minute Topographic Series dated 1934, the Beverly Hills Topographic Series dated 1950 combined with the Venice 7.5-Minute Topographic Series dated 1950, the Beverly Hills Topographic Series dated 1972 combined with the Venice 7.5 Minute Topographic Series dated 1972, the Beverly Hills Topographic Series dated 1981 combined with the Venice 7.5 Minute Topographic Series dated 1981, the Beverly Hills Topographic Series dated 1994, the Beverly Hills Topographic Series dated 1995, and the Beverly Hills Topographic Series dated 2012 combined with the Venice 7.5 Minute Topographic Series dated 2012. The maps were reviewed to evaluate previous development of the Site, adjoining properties, and surrounding areas.

In the maps dating from 1894, 1898, 1900, and 1902, the Site area is not developed with streets. The Site area is mostly vacant with two structures located in the northeast area of the Site. Individual structures are shown spaced intermittently throughout the map area, indicating a rural setting. The nearest streets are at the current locations of Overland Avenue approximately 0.25 mile to the northeast and Washington Boulevard approximately 0.5 to 0.5 mile to the west of the Site. An intermittent stream flowing to the north passes through the south central area of the Site. Ballona Creek is located approximately 0.5 mile southeast of the Site. The community of Palms is located approximately 0.75 mile north of the Site with a denser road network. The Southern Pacific Railroad aligned from east to west is approximately 1 mile north of the Site. The topography is shown at 10-foot intervals with the steeper topography of the Baldwin Hills approximately 1 mile east of the Site and the steeper topography of the southern Beverly Hills approximately 1.5 miles north of the Site with the Ballona Gap in between.

In the map dating from 1920 and 1921, the Site area is more developed than in the previous maps. A railroad line (the Pacific Electric Railroad) passes through the center of the Site along the current alignment of Culver Boulevard. No structures are shown on the Site. Elenda Street has been constructed and passes through the northern portion of the Site. The road networks of the Site area are denser than in previous maps with the Culver City identified in the vicinity of the Ballona Gap approximately 1 mile northeast of the Site. The community of Palms is shown at the same location as in the previous maps. The Southern Pacific Railroad line is now identified as the Pacific Electric Railroad. Pacific Avenue and the Pacific Electric Railroad alignment adjacent have been constructed approximately 0.75 to 1.0 mile northwest of the Site. The creek passing through the Site in previous maps is not shown. Ballona Creek and the general topographic features shown in previous maps are unchanged.

In the map dating from 1925 and 1926, the development of the Site area is similar to that shown in the map dating from 1920 and 1921. The quality of the map is crisper with the elevation contours shown at 5-foot contour intervals. Sepulveda Boulevard has been completed across the southern portion of the Site. The Pacific Electric Railroad network in the Site area has not changed from those shown on the 1920 and 1921 map. A topographically depressed area approximately 690 feet long and 190 feet wide up to approximately 40 feet deep is located just northeast of the Site along the northwest side of the Pacific Electric Railroad alignment in the area that was formerly part of the MGM studios.

In the map dating from 1930 and 1934, the development of the Site area has increased, becoming denser than in the map dating from 1925 and 1926. The street network of the Site area has been installed and is similar to the present with the Pacific Electric Railroad alignment routed down the center of Culver Boulevard. The Pacific Electric Railroad alignment through the Site is crossed by Elenda Street and Sepulveda Boulevard, but not by the streets in between them in the Site area. No structures are shown in the Site area. The Culver City corporate boundary is depicted. The Pacific Electric Railroad network in the Site area has not changed from those shown on the 1925 and 1926 map.

In the map dating from 1950, the development of the Site area has increased, becoming denser than in the map dating from 1930 and 1934. On this map, areas developed with residential structures are shown with red shading instead of individual structures. The red shading of the Site area indicates it has been developed with residential structures. Similar to the 1930 and 1934 map, the Pacific Electric Railroad alignment occupies the center of Culver Boulevard and is crossed by Elenda Street and Sepulveda Boulevard, but not by the streets in between them in the Site area. The Pacific Electric Railroad network in the Site area has not changed from those shown on the 1930 and 1934 map. Numerous oil wells are shown in the Baldwin Hill approximately one mile east of the Site. MGM Studios is identified north of the intersection of Overland Avenue and Culver Boulevard approximately 0.5 mile north of the Site. The northeast corner of the Site occupies a vacant area that appears to be part of the MGM Studios where four

structure are shown approximately 0.25 to 0.5 miles north of the Site. The remainder of the Site area is shaded red indicating residential development.

In the maps dating from 1972, the development of the Site area has increased, from that depicted in 1950. The Pacific Electric Railroad is crossed by Huron and Harter Avenues in the Site area as well as at Elenda Street and Sepulveda Boulevard. The Pacific Electric Railroad network in the Site area has changed from those shown on the 1950 map; the alignment formerly along Pacific Avenue is gone but the one north of Culver City still shown. Numerous oil wells are shown in the Baldwin Hill approximately one mile east of the Site and one oil well is shown at the MGM Studios property approximately 0.75 mile north of the Site. The San Diego Freeway (U.S Route 405) has been constructed approximately 0.8 mile south of the Site and the Santa Monica Freeway (U.S Route 10) has been constructed approximately 1.25 mile north of the Site. MGM Studios is identified north of the intersection of Overland Avenue and Culver Boulevard approximately 0.5 mile north of the Site. The northeast corner of the Site occupies an area that appears to be part of the MGM Studios where numerous structures and a pond are located. A structure occupies the Site in this area. The remainder of the Site area is shaded red indicating residential development.

In the maps dating from 1981, 1994, and 1995, the development and appearance of the Site and surrounding area is similar to that depicted in 1972 except that the Pacific Electric Railroad alignment formerly located along Culver Boulevard is gone, however, the median strip separating the northwest and southeast alignments of Culver Boulevard where it was located is still present.

In the map dating from 2012, the development and appearance of the Site and surrounding area is similar to that depicted in 1981, 1994, and 1995, except that Huron and Harter Avenues no longer cross Culver Drive and the area formerly used MGM Studios that included the northwest corner of Site on the lot north of the intersection of Elenda Street and Culver Boulevard has a new road network indicating the area has been redeveloped.

2.4 AERIAL PHOTOGRAPH REVIEW

A review of historical aerial photographs obtained from EDR included photographs dated 1928, 1938, 1947, 1953, 1977, 1979, 1981, 1989, 1994, 2002, 2005, 2009, 2012, and 2016 (EDR 2019). A summary of the data from the aerial photography is provided below.

The 1928 photograph is a black and white photograph at a scale of one inch equals 500 feet with clear imagery. The Site and surrounding area are similar in appearance to the 1928 aerial photograph except that there is a new structure in the northwest corner of the Site on MGM portion of has been graded with the current street network of the Site area installed. The Pacific Electric Railroad alignment is routed down the center of Culver Boulevard with streets crossings it at Sepulveda Boulevard and Elenda Street. No structures are located in the Site area. Several lots have been developed with residential structures on Aletta Avenue adjacent to the northwest Site boundary and on Wagner Street adjacent to the southeast Site boundary. The areas surrounding the Site on the northwest, southwest, southeast, and northeast contain a road network with intermittent residential development and open space. The lot containing the northwest corner of the Site north of the intersection of Culver Boulevard and Elenda Street of the MGM Studio property contains a dendritic dirt road network emanating off of Overland Avenue on the north and various structures and vehicle parking areas. The Site area of the MGM property was vacant.

The 1938 photograph is a black and white photograph at a scale of one inch equals 500 feet with clear imagery. The street network and Pacific Electric Railroad alignment are similar to 1928. The Site and

surrounding area are similar in appearance to the 1928 aerial photograph except that there is a new structure in the northwest corner of the Site on MGM property.

The 1947 photograph is a black and white photograph at a scale of one inch equals 500 feet with clear imagery. The street network and Pacific Electric Railroad alignment are similar to 1938. Residential housing structures have largely filled in the areas surrounding the Site on the northwest, southwest, southeast, and northeast. There is little development along Sepulveda Boulevard. The Site area is partially developed with residential structures on 13 lots on the northwest side, 13 lots on the southeast side of Culver Boulevard, a structure on the southeast corner of Sepulveda and Culver Boulevards, and a new, larger structure on the MGM lot at the northwest corner of the Site. The appearance of the MGM Studio property that contains the northwest corner of the Site north of the intersection of Culver Boulevard and Elenda Street has changed with several new structures and a couple of ponds.

The 1953 photograph is a black and white photograph at a scale of one inch equals 500 feet with clear imagery. The street network and Pacific Electric Railroad alignment are similar to 1947. Residential housing structures have completely filled in the areas surrounding the Site on the northwest, southwest, southeast, and northeast. Sepulveda Boulevard appears to be largely developed in commercial structures. The Site area is almost completely developed with residential structures on almost all of the lots along Culver Boulevard. A much smaller structure is now on the MGM lot at the northwest corner of the Site than in the 1947 image. The appearance of the MGM Studio property that contains the northwest corner of the Site north of the intersection of Culver Boulevard and Elenda Street is otherwise similar to the 1947 image.

The 1977 photograph is a black and white photograph at a scale of one inch equals 500 feet with clear imagery. The street network is similar to 1953, however, the Pacific Electric Railroad tracks are gone from the central median of Culver Boulevard . Residential housing structures have completely filled in the areas surrounding the Site on the northwest, southwest, southeast, and northeast. Sepulveda Boulevard is completely developed in commercial structures. The Site area is completely developed with residential structures on all of the lots along Culver Boulevard. The appearance of the MGM lot at the northwest corner of the Site is similar to the 1953 image. The appearance of the MGM Studio property that contains the northwest corner of the Site north of the intersection of Culver Boulevard and Elenda Street is otherwise similar to the 1947 image. The San Diego Freeway (U.S Route 405) has been constructed approximately 0.8 mile south of the Site.

The 1979 and 1981 photographs are black and white photographs at a scale of one inch equals 500 feet with clear imagery. The appearance of the Site area in the 1979 photograph is similar to the 1977 image except that the lot at the northwest corner of the Site is being redeveloped in residential housing with a new residential structure inside the project area.

The 1989 and 1994 photographs are similar in appearance except the 1989 photograph is a color infrared image and the 1994 photograph is a black and white image. Both photographs are at a scale of one inch equals 500 feet with clear imagery. The appearance of the Site area in the 1989 and 1994 photographs is similar to the 1979 image except that Culver Boulevard in the Site area has been reconfigured into the alignment it has currently with a median strip along the former Pacific Electric Railroad alignment separating the northwestern and southeastern lanes. The Harter and Huron Avenue crossing of Culver Boulevard have been eliminated.

The 2002 photograph is a color infrared image and the 2005, 2009, 2012, and 2016 photographs are color images. All of these photographs are at a scale of one inch equals 500 feet with clear imagery. The

appearance of the Site area in these photographs is similar to the 1989 and 1994 images except that the bike path has been constructed in the median of Culver Boulevard.

2.5 AGENCY RECORDS REVIEW

The following is a summary of information obtained from correspondence with agencies during the course of this assessment. These agencies were contacted via email, telephone, and/or records searches for information relating to the Site and surrounding areas. Documentation obtained from the various agencies is included in Appendix E.

2.5.1 California Department of Conservation, Division of Oil, Gas, and Geothermal Resources

Tetra Tech reviewed DOGGR Map 122 (DOGGR 2008), DOGGR Map W1-5 (DOGGR 2010), the online DOGGR Well Finder (DOGGR 2019), and associated well history documents to evaluate potential presence of oil fields or wells within the Site vicinity. The records indicate that the Site not located within an oil field and no known active or abandoned petroleum production wells are present on the Site. The Inglewood oil field is located approximately 220 feet north of the Site and six abandoned oil wells are located within one quarter mile of the Site. The oil well nearest to the Site is the Uharriet No. 1, located approximately 1,712 feet northeast of the Site near the intersection of Culver and Overland Boulevards and DOGGR Map 122 indicates it is a plugged, abandoned dry hole. The Signal -Halbouty-Reserve Culver No. 1 oil well is located approximately 1,845 feet northwest of the southern Site area and DOGGR Map W1-5 indicates it is a plugged, abandoned dry hole. The Olympic Realty Corporation No. 1 oil well is located approximately 1,850 feet south of the Site area and DOGGR Map W1-5 indicates it is a plugged, abandoned dry hole. The Elbe No. 6 oil well is located approximately 2,006 feet east-southeast of the southern Site area and DOGGR Map 122 indicates it is a plugged, abandoned dry hole. The MGM No. 1 oil well is located approximately 2,085 feet north of the Site and DOGGR Map 122 indicates it is a plugged, abandoned oil well. The Culver City A-2 No. 1 oil well is located approximately 2,150 feet north of the Site and DOGGR Map 122 indicates it is a plugged, abandoned dry hole.

2.5.2 California State Water Resources Control Board

Tetra Tech reviewed online resources at the California Environmental Protection Agency (Cal EPA) State Water Resources Control Board (SWRCB) Geotracker database (SWRCB 2019) for any records pertaining to the Site and adjacent properties. One record was identified for a property located onsite as follows:

- Tune Up Masters at 4246 Sepulveda Boulevard. The database indicated the record was for a leaking underground fuel tank (LUFT) case under the regulatory oversight of Los Angeles County that was closed on August 21, 1991.

One record was identified for a property located adjacent to the Site onsite as follows:

- Bernards Property at 4228 Sepulveda Boulevard. The database indicated the record was for a LUFT case under the regulatory oversight of Los Angeles County that was closed on January 19, 1990.

These records are discussed further in Section 3.1.

2.5.3 Department of Toxic Substances Control

Tetra Tech reviewed online resources provided by the California Environmental Protection Agency - Department of Toxic Substances Control (DTSC) for any records pertaining to the Site and adjacent properties (DTSC 2019). No records of the Site were located in the DTSC EnviroStor database aside from those located in the Geotracker database and described above and in Section 3.1.

THIS PAGE INTENTIONALLY LEFT BLANK

3.0 ENVIRONMENTAL RECORDS REVIEW

Tetra Tech retained the services of EDR, a Connecticut-based company that maintains comprehensive environmental information databases and specializes in providing such data for use in real estate and environmental documents. EDR performed a database search of the Site property in accordance with current ASTM standards (EDR 2019).

Among the environmental databases searched were LUST sites; HIST UST; HIST CORTESE; Los Angeles County HMS; RGA LUST; HAZNET; Facility Index System/Facility Identification Initiative Program Summary Report (FINDS); Facility Inventory Database (CA FID UST); Hazardous Substance Storage Container Database (HIST UST); California Environmental Protection Agency/Office of Emergency Information (CORTESE); and California Leaking Underground Storage Tank (LUST) sites. Each of the databases was searched at a radius appropriate for ASTM E1527-13. Sites identified in the databases are listed and plotted in the complete environmental database report. The following includes a summary of information regarding the Site itself, properties immediately adjacent to the Site, and/or properties that have the potential to affect the Site based on their proximity to the Site.

3.1 ON-SITE EDR LISTINGS

There are three properties located on the Site that are listed in the EDR-Radius Map report in 12 databases (EDR 2019). They are at the intersection of Sepulveda Boulevard and Culver Boulevard at 4246 Sepulveda Boulevard, 4301 Sepulveda Boulevard, and 11182 Culver Boulevard. Summaries of the EDR listings associated with these Site properties are provided below.

3.1.1 EDR Listing A1 for Tuneup Masters at 4246 Sepulveda Boulevard

Four EDR database listing are associated with EDR Listing A1 for Tuneup Masters at 4246 Sepulveda Boulevard:

- The LUST database is the Leaking Underground Fuel Tank Report from the State Water Resources Control Board's (SWRCB's) Geotracker Database. The LUST listing for EDR site A1 indicates the property was a LUST cleanup site with Los Angeles as the Lead Agency. There are three LUST listings for EDR site A1 that were closed on August 21, 1991.

- The HIST UST is the Hazardous Substance Storage Container Database is a historical listing of underground storage tank (UST) sites maintained by the SWRCB. The HIST UST listing for EDR site A1 indicates there was a 500 gallon waste oil UST at the site installed in 1980.

- The HIST CORTESE is a Hazardous Waste and Substance Site List for sites that are designated by the SWRCB LUST, Integrated Waste Management Board, and DTSC. This database is no longer updated.

- The Los Angeles County HMS is a street number list for industrial waste and UST sites. The database indicates EDR site A1 was removed from this list.

3.1.2 EDR Listings A2, A 3, and A5 for the Tuneup Masters Shop #69 at 4246 South Sepulveda Boulevard

- The RGA LUST database a database maintained by EDR of recovered government archive leaking underground storage tank site that provides a list of LUST incidents derived from

historical databases and includes many records that no longer appear in current government lists. It is compiled from records formerly available from the SWRCB. The listing for EDR site A2 lists the year 2004. The listing for EDR site A3 lists the years 1993 and 1994. The listing for EDR site A5 is for each year from 1995 through 2012.

3.1.3 EDR Listing A4 for Mike Karagoein at 4246 Sepulveda Boulevard

- The HAZNET database is the facility and manifest data extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator identification treatment and disposal facility identification, waste category, and disposal method. This database begins with calendar year 1993. The information for EDR site A4 indicates that 2.085 tons of unspecified oil-containing waste was disposed of from this site in 2008 by recovery for reuse and 0.15 tons of unspecified oil-containing waste was disposed of from this site in 2008 by storage, bulking, and/or transfer off site with no treatment or recovery.

3.1.4 EDR Listing A6 for Automotive Tech, Inc. DBA as XPERT Tune at 4246 South Sepulveda Boulevard

- The HIST UST database background is described in Section 3.1.1. The HIST UST listing data for EDR site A6 is all “not reported”.

- The HAZNET database background is described in Section 3.1.3. The information for EDR site A4 indicates that indicates that:

    - 0.06 tons of aqueous solution with total organic residues less than 10 percent waste was disposed of from this site in 2000 through a transfer station;

    - 1.292 tons of aqueous solution with total organic residues less than 10 percent waste was disposed of from this site in 1999 through a transfer station;

    - 0.1250 tons of organic liquids with metals (Alkaline solution [pH >= 12.5] with metals) was disposed of from this site in 1998 through a transfer station; and

    - 0.1167 tons of aqueous solution with total organic residues less than 10 percent waste was disposed of from this site in 1997 through a transfer station.

3.1.5 EDR Listing A7 for the Tuneup Masters Shop #69 at 4246 South Sepulveda Boulevard

- The FINDS (Facility Index System/Facility Registry System) database contains both facility information and ’pointers’ to other sources that contain more detail. The EDR listing includes the following FINDS databases: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System). The FINDS

listing for EDR site A7 indicates that it was in listed the SWRCB Geotracker database with the case starting April 17, 1990 and ending August 21, 1991. This is consistent with the information in the LUST listings for this address in Section 3.1.1.

3.1.6 EDR Listing A8 for the Tuneup Masters Shop #69 at 4246 South Sepulveda Boulevard

- The HAZNET database background is described in Section 3.1.3. The information for EDR site A8 indicates that indicates that 1.82 tons of waste oil and mixed oil was disposed of from this site in 2007 through other recovery of reclamation for reuse including acid regeneration and organics recovery.

3.1.7 EDR Listing B9 for Perez Jose Foreign Car at 4301 South Sepulveda Boulevard

- For the EDR Hist Auto database, EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches. The EDR Hist Auto database listing for EDR site B9 indicates that the site was a gasoline service station operated by Velicko Ivanovic for the years from 1969 through 1975, a general automotive repair shop operated by JP Foreign Car Service and Jose Perez Foreign Car Service from 1978 through 1980, 1982, 1983, and 1985 through 2011.

3.1.8 EDR Listing A10 for Palm Tree Gas and Car Wash at 11182 Culver Boulevard

- The EDR Hist Auto database is described in Section 3.1.7. The EDR Hist Auto database listing for EDR site A10 indicates that the site was a carwash from 1969 through 1985.

3.1.9 EDR Listing A11 for Palm Tree Gas N Wash at 11182 Culver Boulevard

- The SWEEPS (Statewide Environmental Evaluation and Planning System) UST database is an underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The listing for this site indicates it was active with a referral date of June 30, 1989.

3.2 SITE-ADJACENT EDR LISTINGS

There are three properties listed in the EDR-Radius Map report located on properties adjacent to the Site in eight databases (EDR 2019). They are near the intersection of Sepulveda Boulevard and Culver Boulevard at 4235 Sepulveda Boulevard, 4318 Sepulveda Boulevard, and 4228 Sepulveda Boulevard. Summaries of the EDR listings associated with these Site properties are provided below.

3.2.1 EDR Listing A12 for Lindquist Motors, Inc. at 4235 Sepulveda Boulevard

- The UST database lists active UST facilities gathered from the SWRCB database . The listing for this site indicates the site location and indicates Los Angeles County as the permitting agency.

3.2.2 EDR Listing A13 for Foggerts, Inc. at 4235 Sepulveda Boulevard

- The SWEEPS database is described in Section 3.1.9. The listing for this site indicates it was active with a referral date of January 2, 1991.

- The Los Angeles County HMS database is described in Section 3.1.1. . There are four listings for EDR site A13, one indicating it was removed from this list and three indicating the case was closed.

3.2.3 EDR Listing B14 for Ed Little Auto Service at 4318 Sepulveda Boulevard

- The RCRA-SQG (small quantity generator) database is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. The listing for this site indicates that it was initiated August 30, 1989 and that Ed Little Auto Service is a RCRA-SQG with no violations.

- The FINDS database is described in Section 3.1.5. The FINDS listing for EDR site B14 indicates that the facility generates hazardous waste, is a RCRA-SQG, and is in listed on other database records.

- The ECHO database provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide from the EPA. The ECHO listing for this site provide the site registry identification.

- The Los Angeles County HMS database is described in Section 3.1.1. The database indicates EDR site B14 is permitted.

3.2.4 EDR Listing A15 for Bernard's Property at 4228 Sepulveda Boulevard

- The LUST database is described in Section 3.1.1. The LUST listing for EDR site A15 indicates the property was a LUST cleanup site with Los Angeles as the Lead Agency. There are three LUST listings for EDR site A15 that were closed on January 19, 1990.

- The SWEEPS UST database is described in Section 3.1.9. The listing for this site indicates it was active with a referral date of June 6, 1989.

- The HIST is described in Section 3.1.1. This database is no longer updated.

4.0 CONCLUSIONS

Based on the information presented in this ERR, Tetra Tech concludes that:

1. Current or historic uses at the project site have not resulted in any release of hazardous wastes/substances at the project area; and
2. There are no known or potentially contaminated sites within the proposed project area, and there are no conditions at the Site that pose a threat to human health or the environment.

THIS PAGE INTENTIONALLY LEFT BLANK

5.0 RECOMMENDATION

In the unlikely event that evidence for potentially contaminated soil or groundwater is encountered during the execution of the project, additional site investigation and/or remediation may be required in accordance with the provisions of California Health and Safety Code (CHSC) Chapters 6.7 and 6.75 and California Code of Regulations (CCR), Title 23, Division 3, Chapter 16 if it originates from an UST, or if the contamination was from a source other than a UST, CHSC Chapters 6.5 and 6.11 and CCR Title 22. Construction in the area should stop and appropriate health and safety procedures should be implemented. If it is determined that contaminated soil exists, the DTSC should be notified and provide regulatory oversight. For sites where it is determined that impacted groundwater exists, the Regional Water Quality Control Board, Los Angeles Region (LARWQCB) should be notified and provide regulatory oversight. For sites where both impacted soil and groundwater is encountered, the DTSC and LARWQCB should be notified and provide regulatory oversight. For sites where underground storage tanks (USTs) are involved, the Los Angeles County Fire Department is the State of California as a Certified Unified Program Agency (CUPA) for Culver City and should be notified and provide regulatory oversight for UST removal and abandonment. The scope of any investigation and/or remediation that would be conducted would dependent on the type and extent of the contamination encountered and associated regulatory agency requirements.

THIS PAGE INTENTIONALLY LEFT BLANK

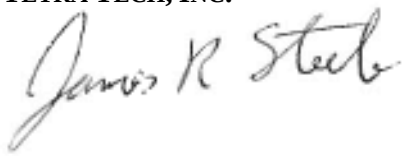
6.0 DISCLAIMER

This report was compiled based partially on information supplied to Tetra Tech from outside sources and other information that is in the public domain. The conclusions and recommendations herein are based solely on the information Tetra Tech obtained in compiling the report. Documentation for the statements made in the report is on file at Tetra Tech's offices in Santa Barbara, California. Tetra Tech makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report, except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Since the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. Tetra Tech does not assume responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with submitted recommendations or suggestions does not assure elimination of hazards or the fulfillment of client's obligation under federal, state, or local laws or any modifications or changes to such laws.

None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

Respectfully submitted,

TETRA TECH, INC.



James R. Steele
Project Geologist

California Professional Geologist 5963
California Certified Engineering Geologist EG 1906
California Certified Hydrogeologist HG 247
Expiration date: May 31, 2019

THIS PAGE INTENTIONALLY LEFT BLANK

7.0 REFERENCES

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR)

2008 DOGGR Map 122. August 13.

2010 Wildcat Map W1-5. May 25.

2019 Division of Oil, Gas & Geothermal Resources Well Finder. Accessed January 11, 2019. http://maps.conservation.ca.gov/doggr/#close.

California Environmental Protection Agency State Water Resources Control Board (SWRCB)

2019 *Geotracker Database*. Accessed January 18, 2019. http://geotracker.waterboards.ca.gov/map/?CMD=runreport&myaddress=culver+city.

California Environmental Protection Agency Department of Toxic Substances Control (DTSC)

2018 *Mitigated Negative Declaration for the Culver Boulevard Realignment and Stormwater Treatment Project*. December 21.

2019 Envirostor Database. Accessed January 18, 2019. https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=culver+city

Environmental Data Resources, Inc. (EDR)

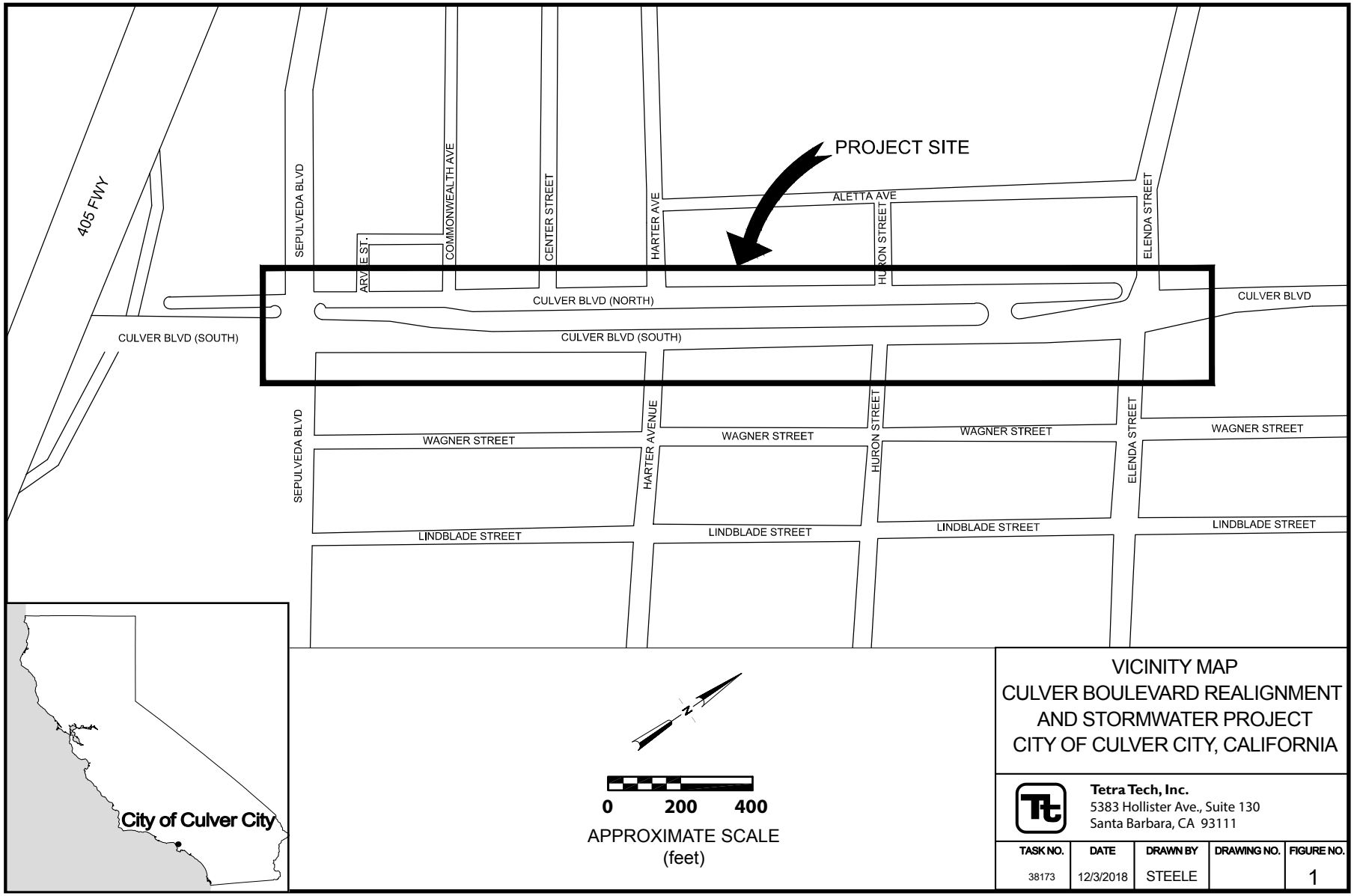
2019 Environmental Data Resources. Report Nos. 5530785_2, 5530785.3, 5530785.4, 55307855, 55307856, 55307858

Tetra Tech

2018 *Draft Initial Study/Mitigated Negative Declaration for the Culver Boulevard Realignment and Stormwater Treatment Project, Culver City, California.* December.

THIS PAGE INTENTIONALLY LEFT BLANK

FIGURES



VICINITY MAP
CULVER BOULEVARD REALIGNMENT
AND STORMWATER PROJECT
CITY OF CULVER CITY, CALIFORNIA

Tetra Tech, Inc.
5383 Hollister Ave., Suite 130
Santa Barbara, CA 93111

TASK NO.	DATE	DRAWN BY	DRAWING NO.	FIGURE NO.
38173	12/3/2018	STEELE		1

A HISTORICAL TOPOGRAPHIC MAPS

Culver Boulevard Realignment/Urban Stormwater

4246 Sepulveda Boulevard

CULVER CITY, CA 90230

Inquiry Number: 5530785.4

January 10, 2019

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

01/10/19

Site Name:	Client Name:
Culver Boulevard Realignment/	Tetra Tech, Inc.
4246 Sepulveda Boulevard	5383 Hollister Avenue, Suite 130
CULVER CITY, CA 90230	Santa Barbara, CA 93111
EDR Inquiry # 5530785.4	Contact: Jim.steele

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: 100-IWM-T38173

Coordinates:

Latitude:	34.005156 34° 0' 19" North
Longitude:	-118.410166 -118° 24' 37" West
UTM Zone:	Zone 11 North
UTM X Meters:	369777.13
UTM Y Meters:	3763624.01
Elevation:	54.79' above sea level

Maps Provided:

2012	1921
1995	1920
1994	1902
1981	1900
1972	1898
1950	1896
1930, 1934	1894
1925, 1926	

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Beverly Hills
2012
7.5-minute, 24000

Venice
2012
7.5-minute, 24000

1995 Source Sheets

Beverly Hills
1995
7.5-minute, 24000
Aerial Photo Revised 1978

1994 Source Sheets

Beverly Hills
1994
7.5-minute, 24000
Aerial Photo Revised 1978

1981 Source Sheets

Venice
1981
7.5-minute, 24000
Aerial Photo Revised 1978

Beverly Hills
1981
7.5-minute, 24000
Aerial Photo Revised 1978

Topo Sheet Key

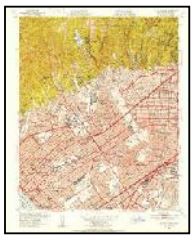
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1972 Source Sheets

Venice
1972
7.5-minute, 24000
Aerial Photo Revised 1972

Beverly Hills
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1950 Source Sheets



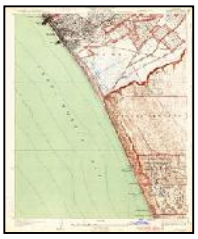
Beverly Hills
1950
7.5-minute, 24000
Aerial Photo Revised 1947

Venice
1950
7.5-minute, 24000
Aerial Photo Revised 1947

1930, 1934 Source Sheets

Inglewood
1930
7.5-minute, 24000

Sawtelle
1934
7.5-minute, 24000



Venice
1934
7.5-minute, 24000

1925, 1926 Source Sheets

Sawtelle
1925
7.5-minute, 24000

Hollywood
1926
7.5-minute, 24000

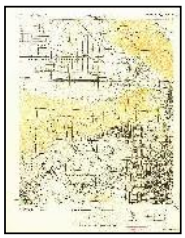
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1921 Source Sheets

Santa Monica
1921
15-minute, 62500

1920 Source Sheets



SANTA MONICA
1920
15-minute, 62500

1902 Source Sheets

Santa Monica
1902
15-minute, 62500

1900 Source Sheets

Los Angeles
1900
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1898 Source Sheets

Santa Monica
1898
15-minute, 62500

1896 Source Sheets

Redondo
1896
15-minute, 62500

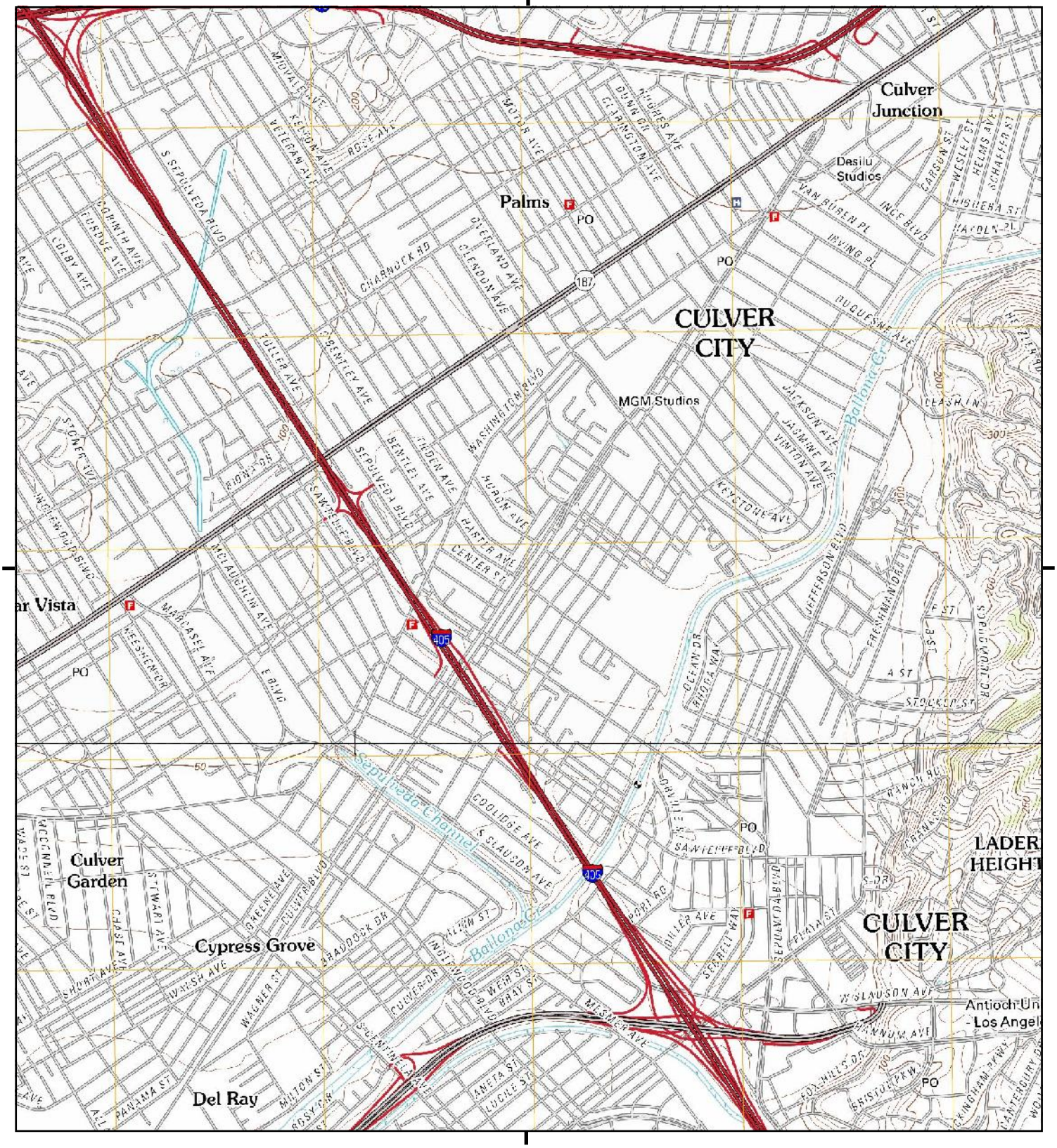
Santa Monica
1896
15-minute, 62500

1894 Source Sheets

Los Angeles
1894
15-minute, 62500

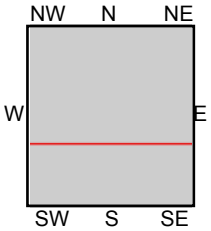
Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



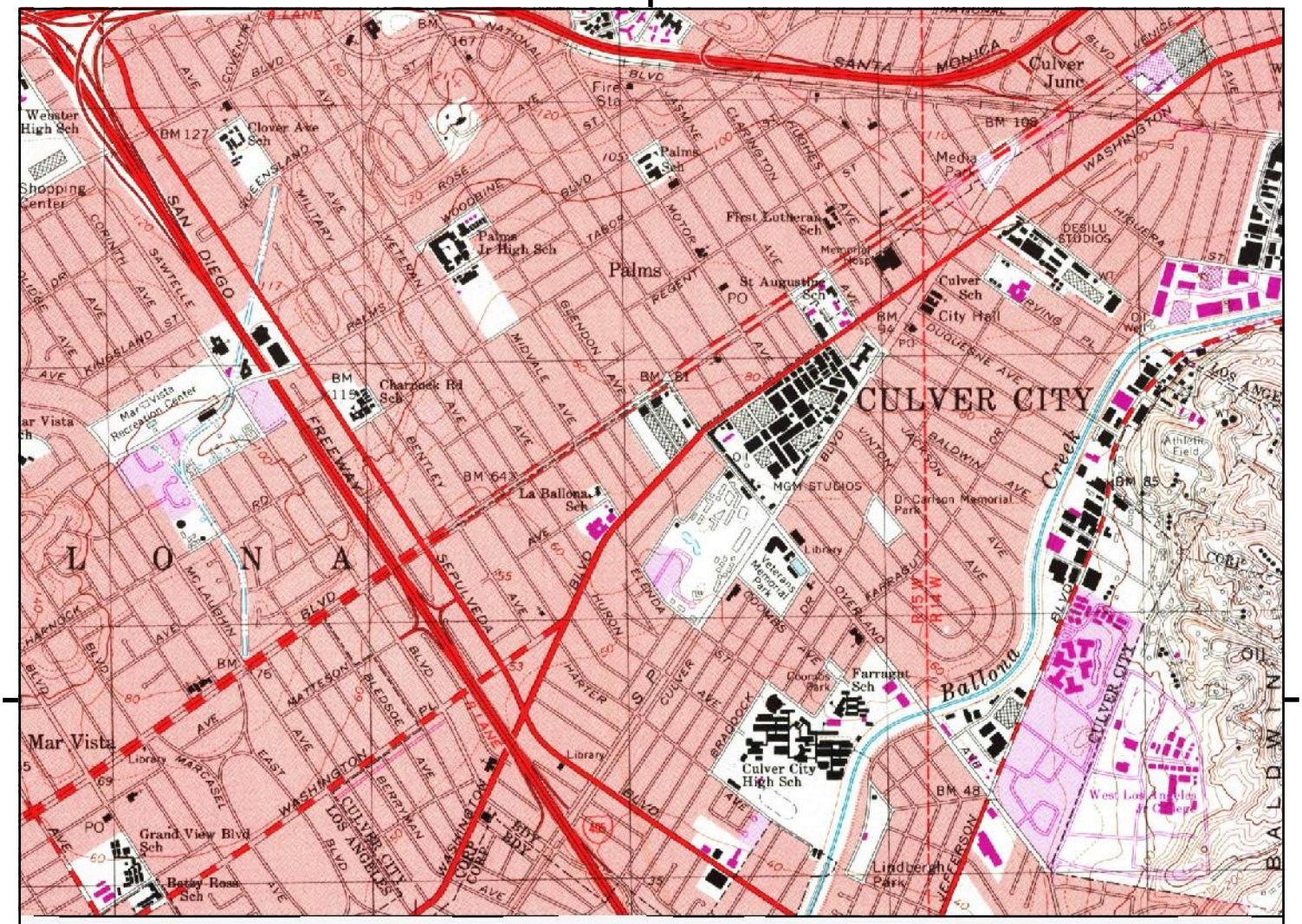
TP, Beverly Hills, 2012, 7.5-minute
S, Venice, 2012, 7.5-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

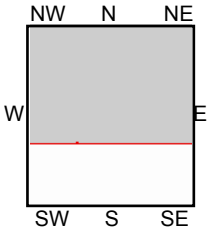
1995



UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



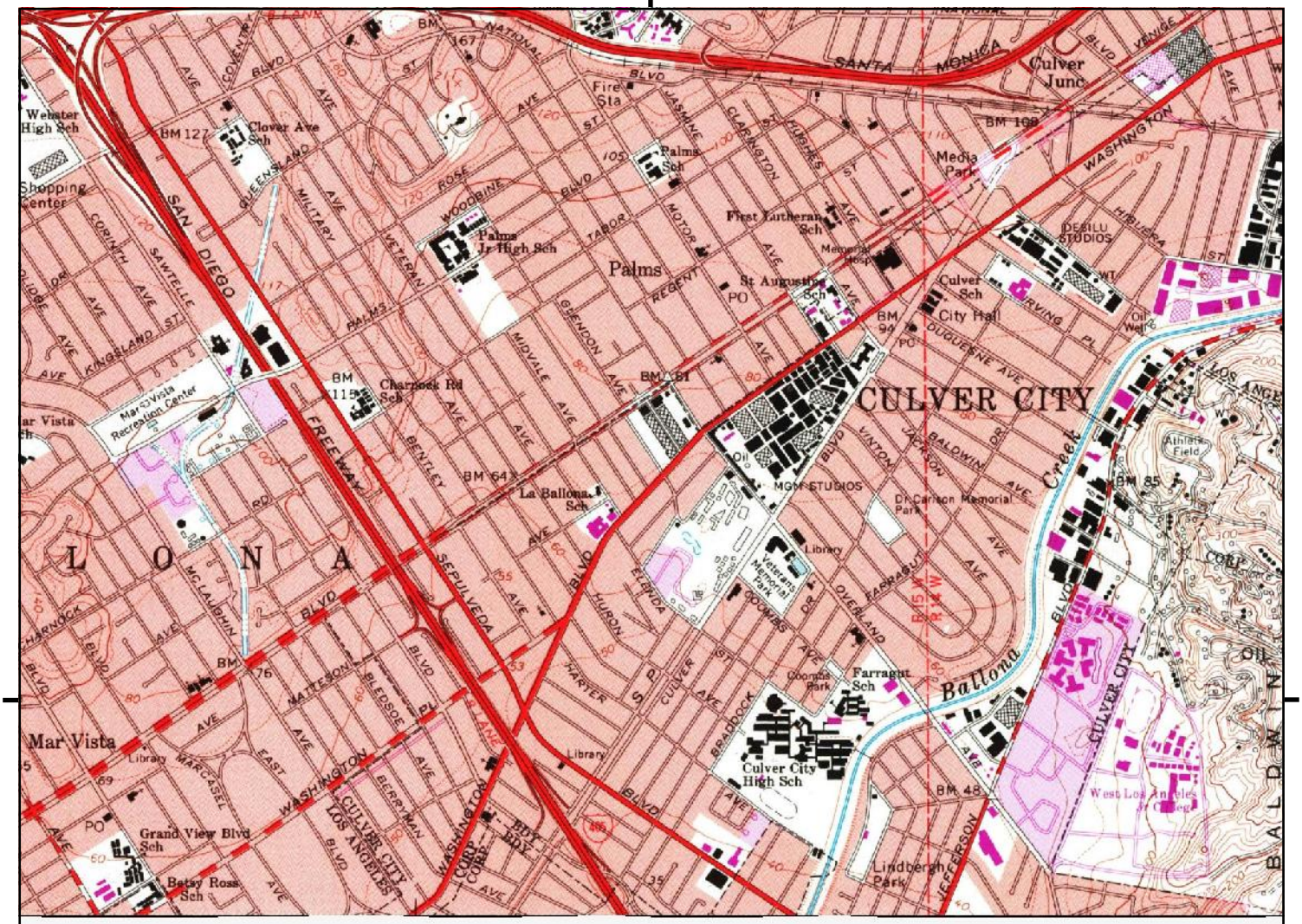
TP, Beverly Hills, 1995, 7.5-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

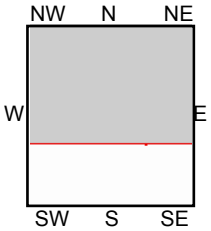
1994



UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



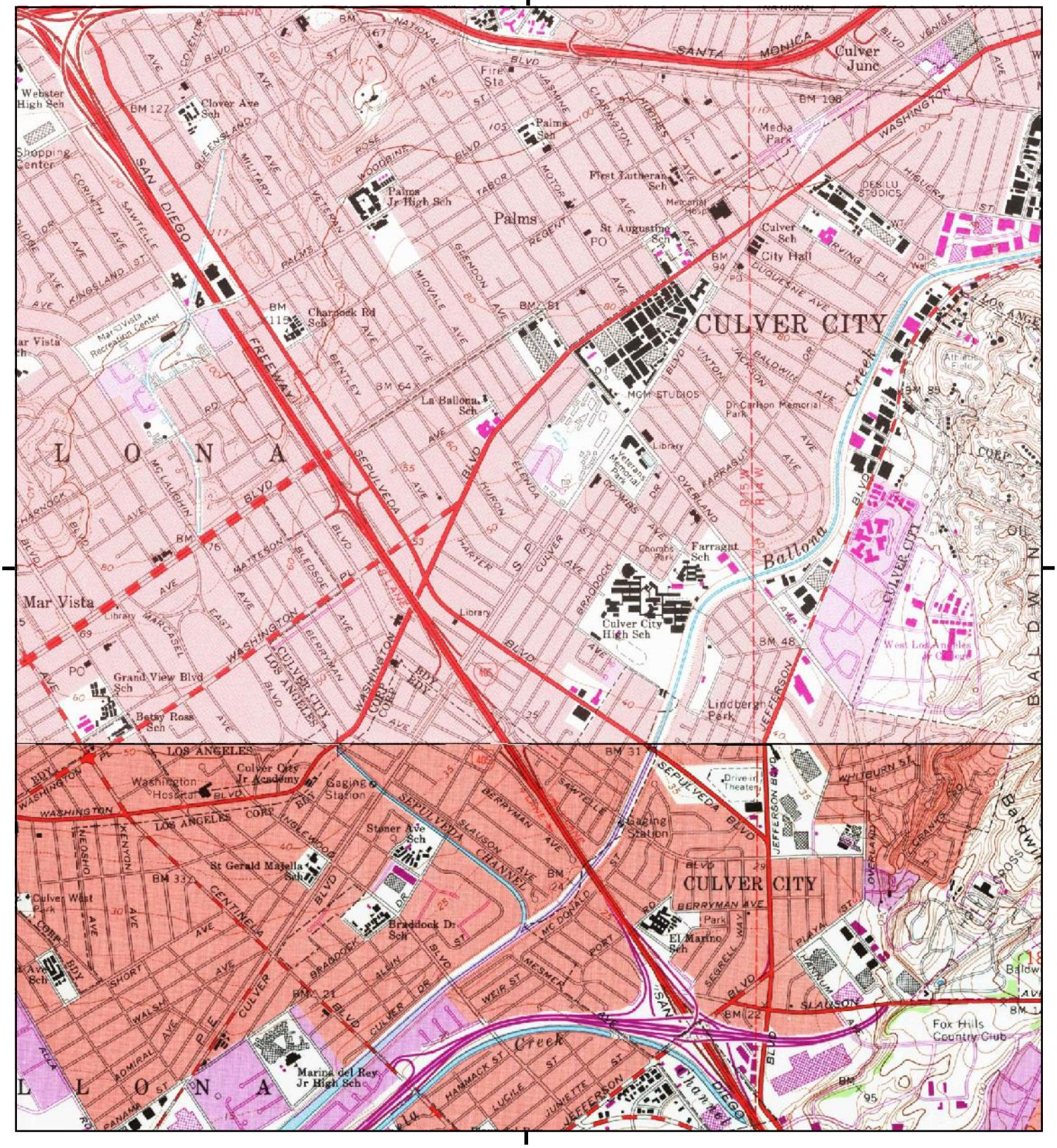
TP, Beverly Hills, 1994, 7.5-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

1981



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

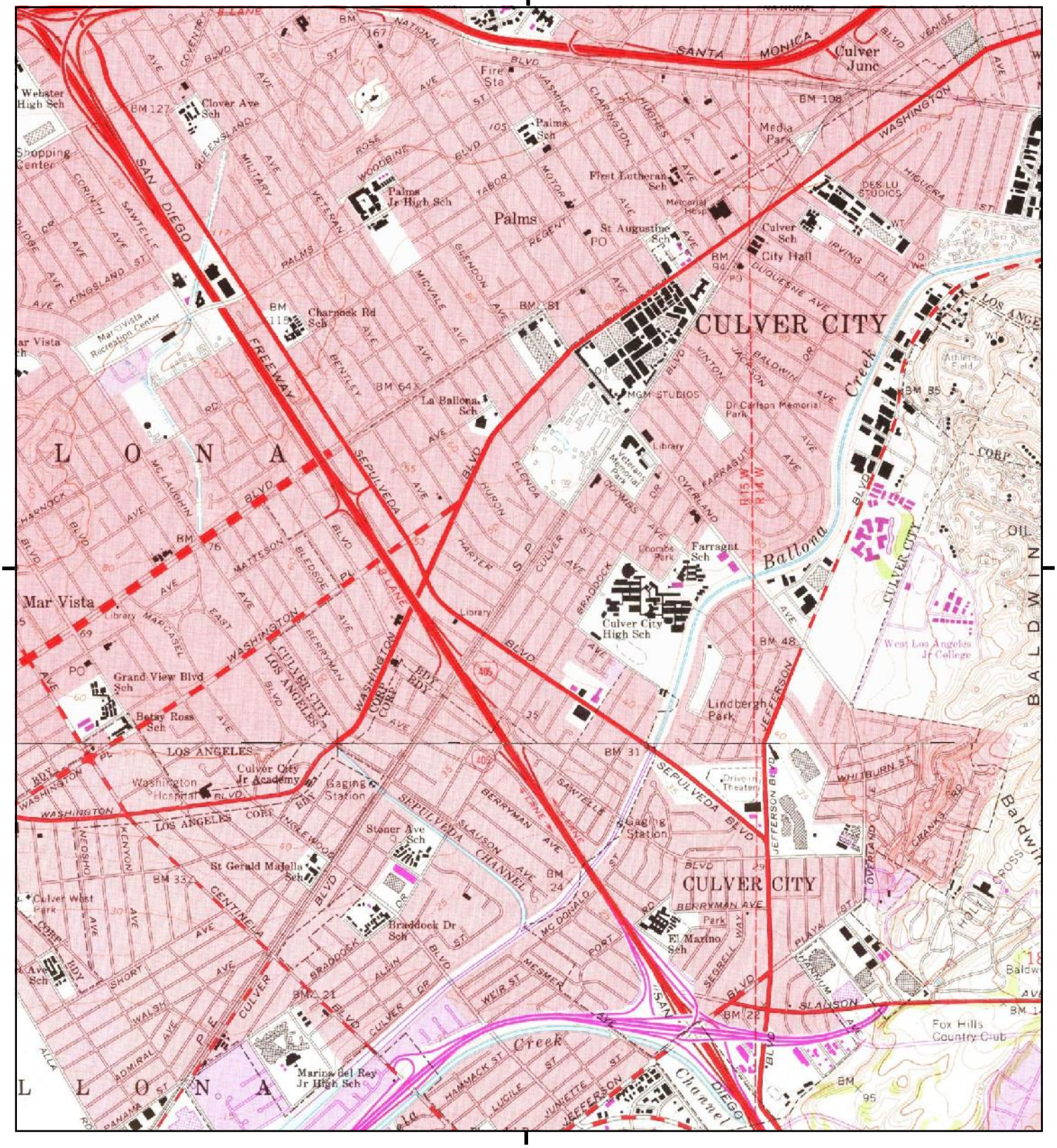
TP, Beverly Hills, 1981, 7.5-minute
S, Venice, 1981, 7.5-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

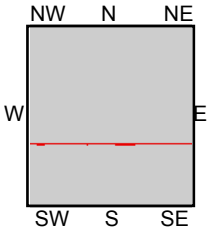
Historical Topo Map

1972



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



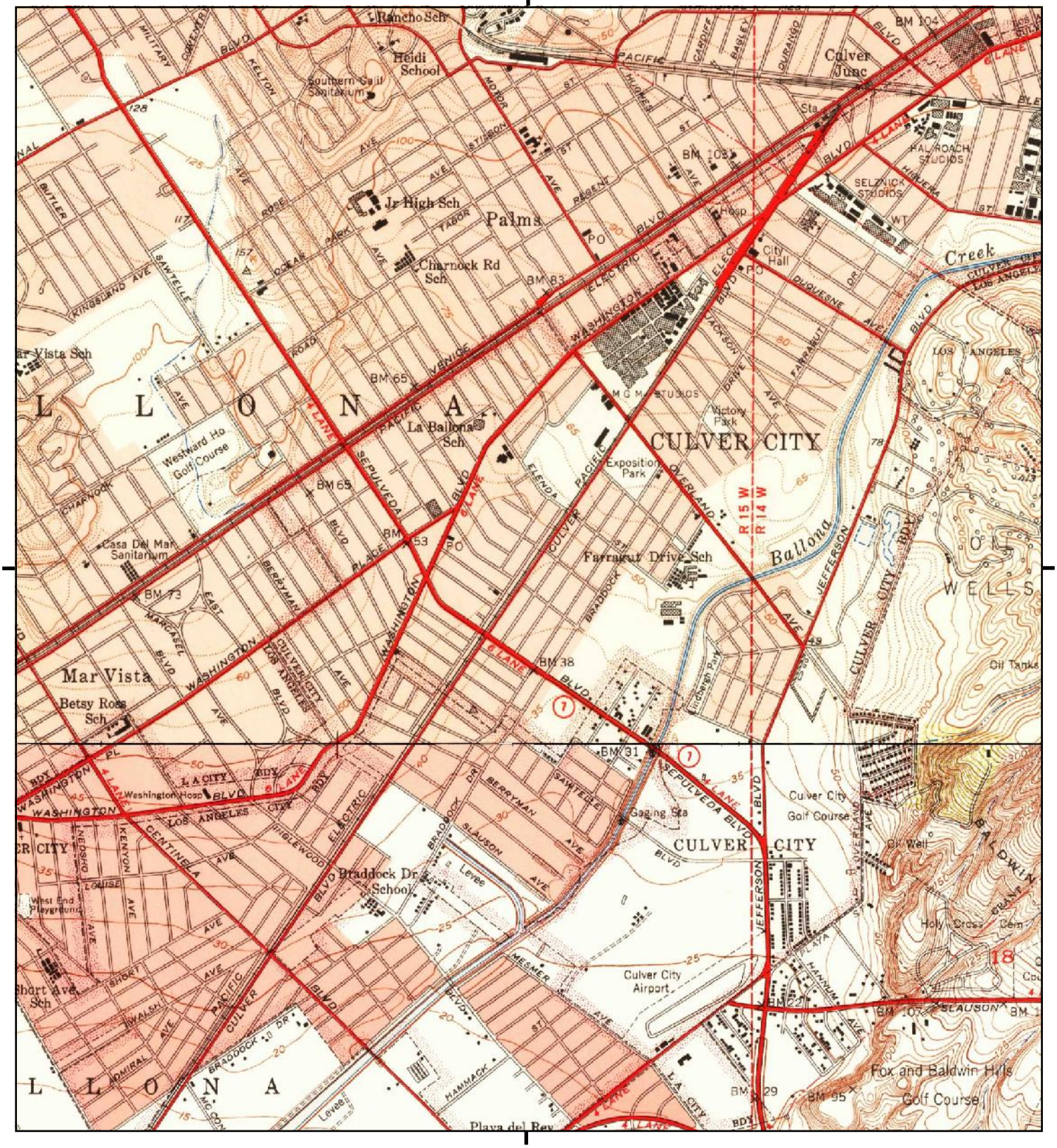
TP, Beverly Hills, 1972, 7.5-minute
S, Venice, 1972, 7.5-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

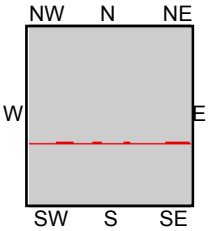
Historical Topo Map

1950



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



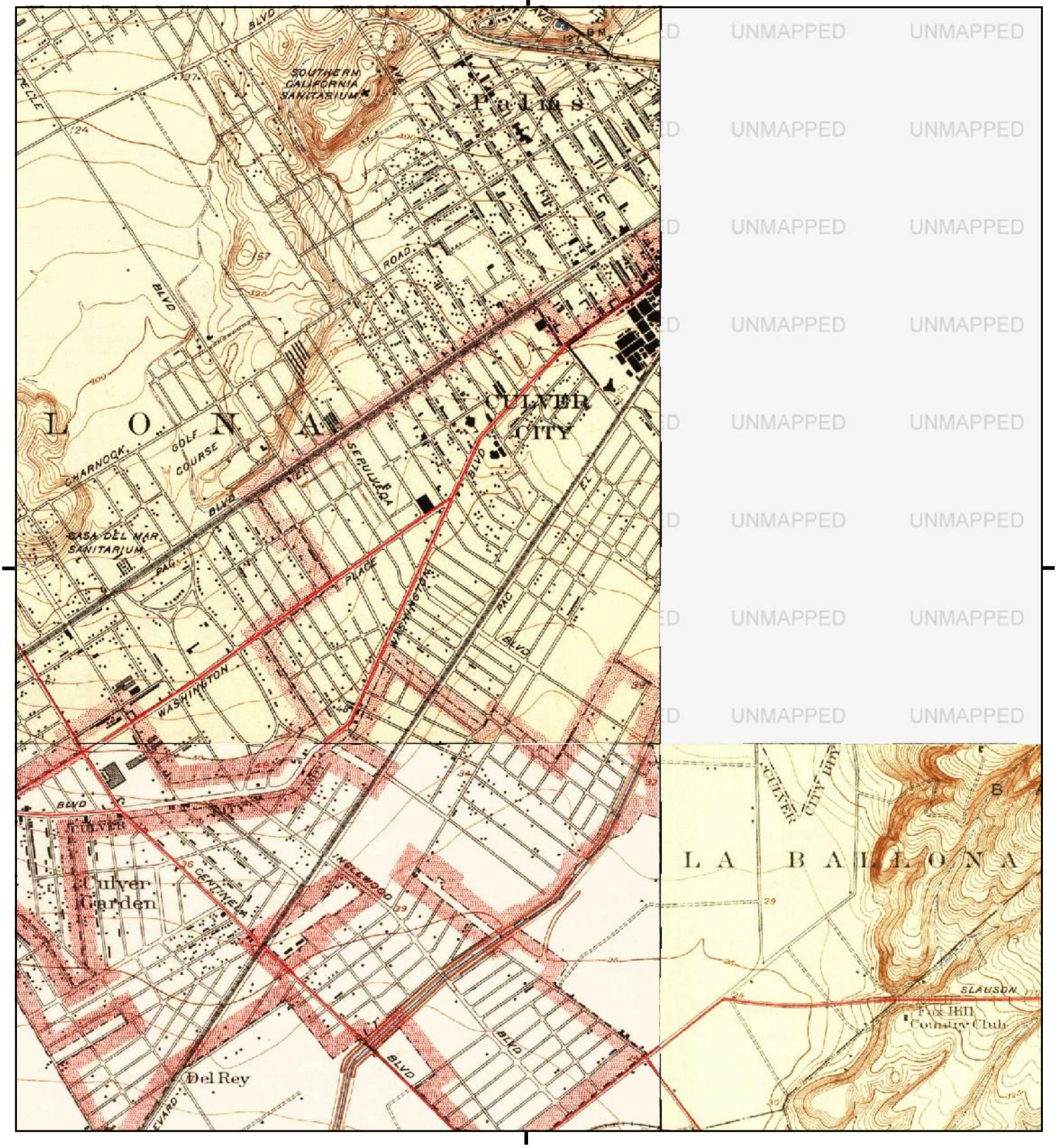
TP, Beverly Hills, 1950, 7.5-minute
S, Venice, 1950, 7.5-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

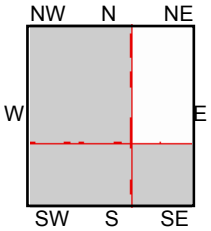
Historical Topo Map

1930, 1934



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



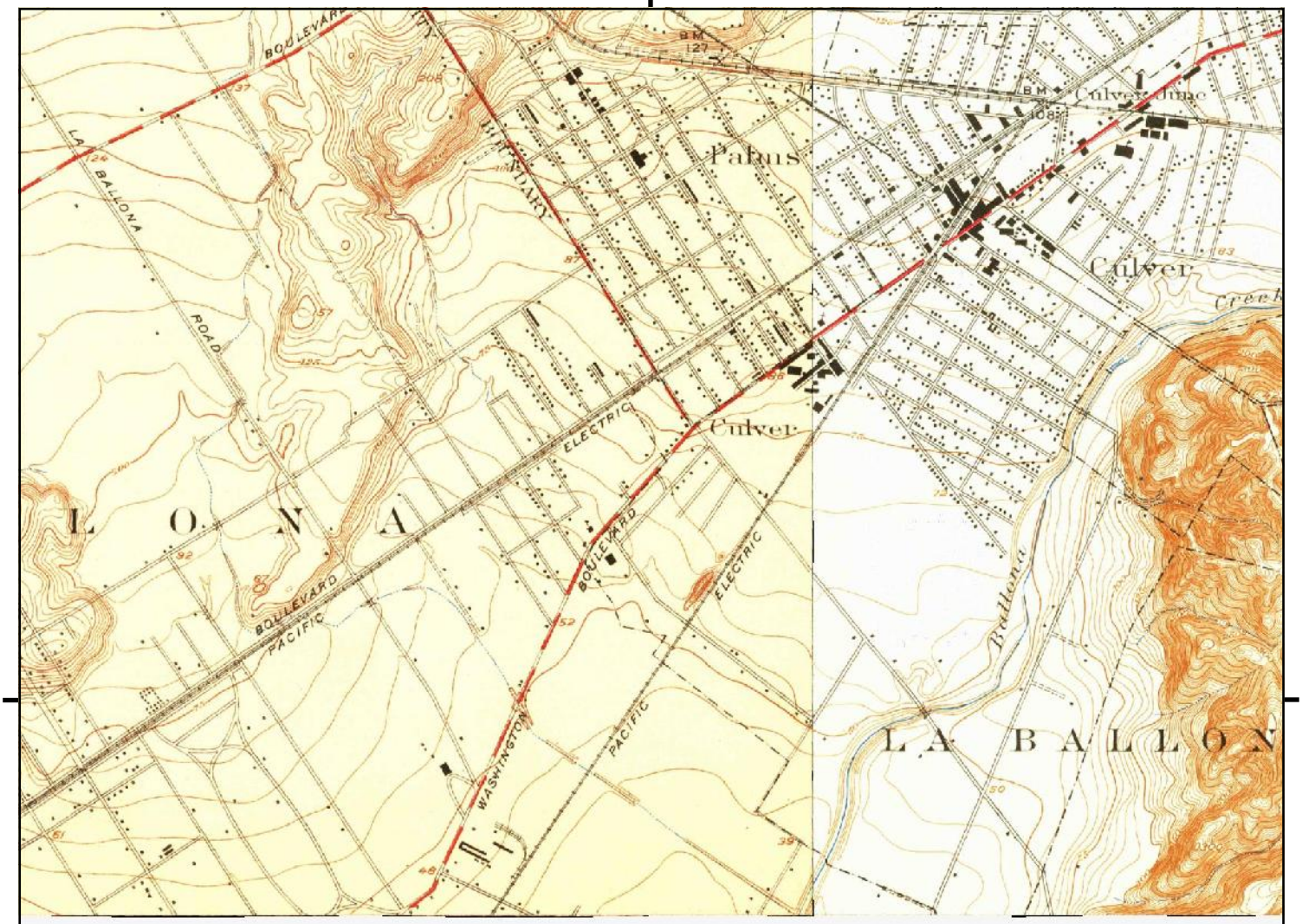
TP, Sawtelle, 1934, 7.5-minute
SE, Inglewood, 1930, 7.5-minute
SW, Venice, 1934, 7.5-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

1925, 1926



UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

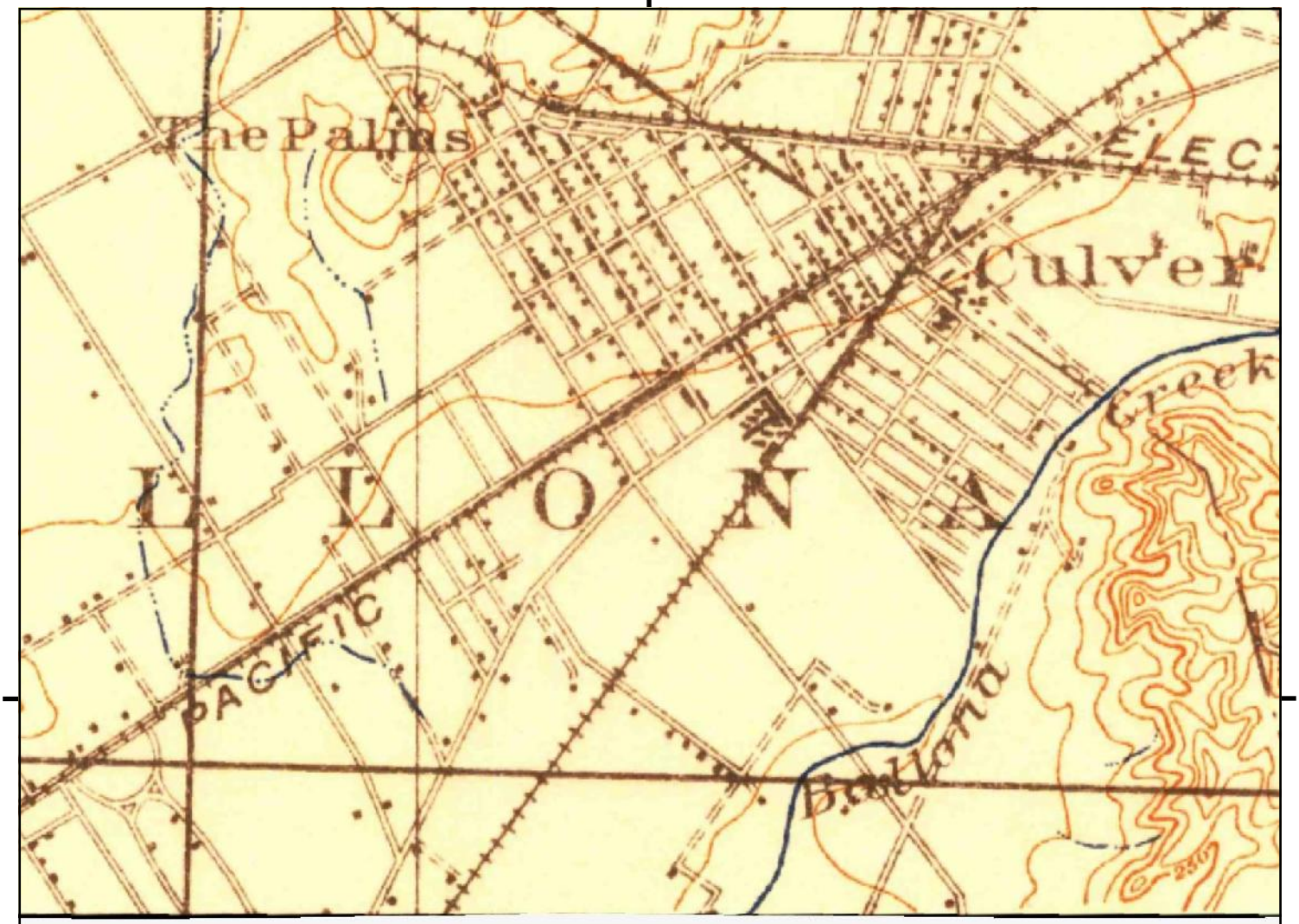
TP, Sawtelle, 1925, 7.5-minute
NE, Hollywood, 1926, 7.5-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

1921



UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

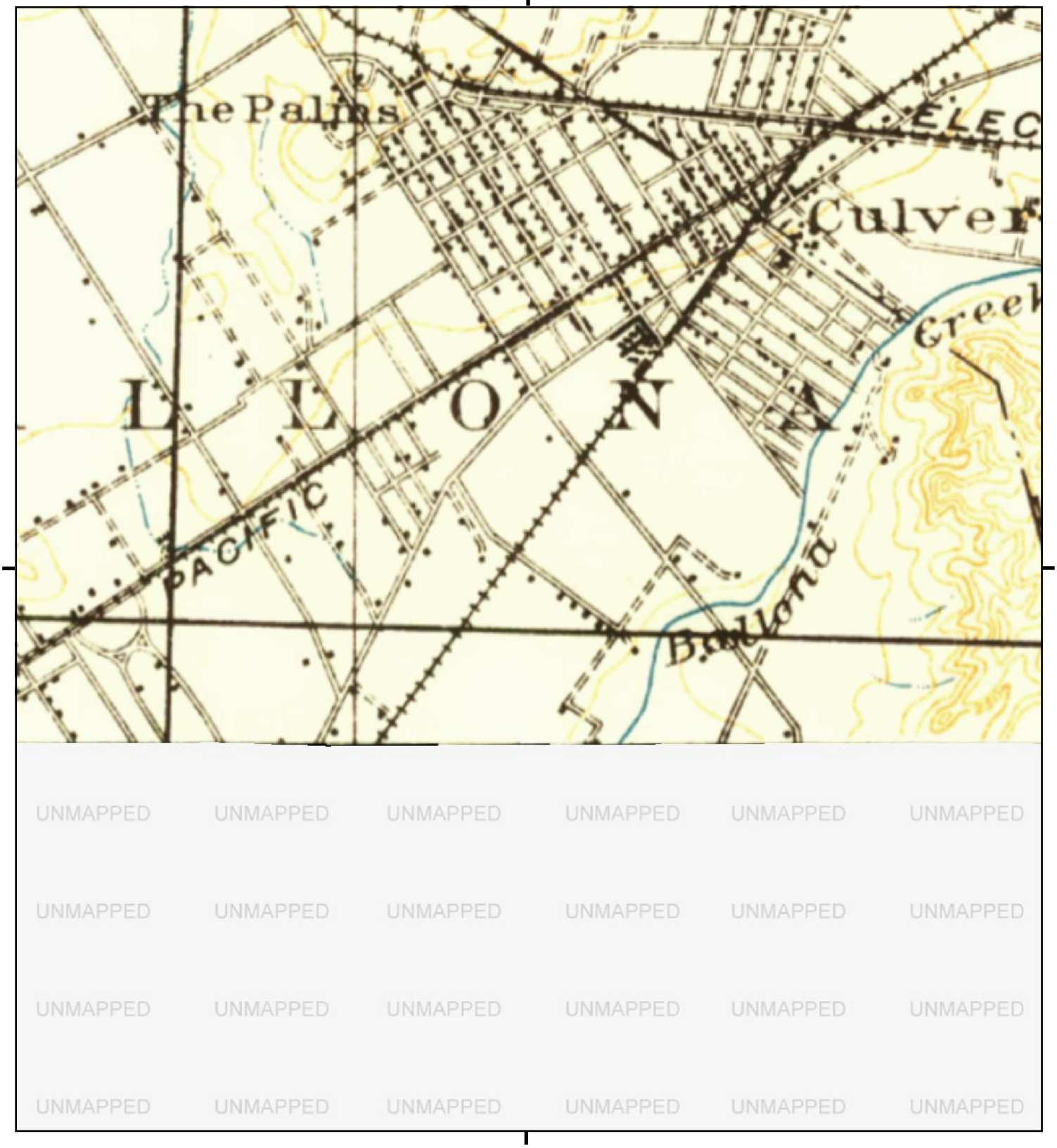
TP, Santa Monica, 1921, 15-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

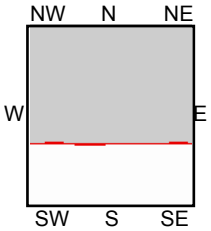
Historical Topo Map

1920



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



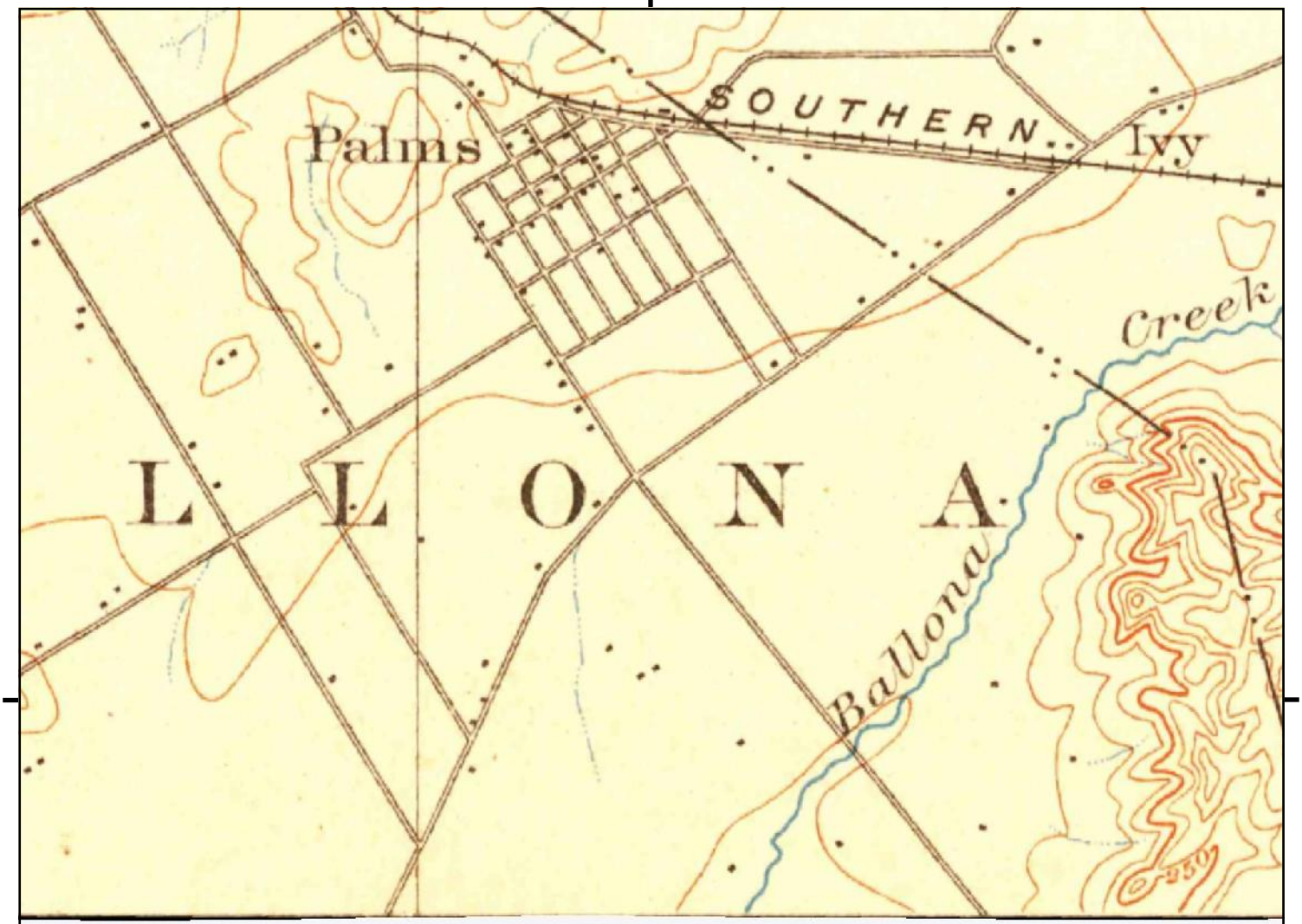
TP, SANTA MONICA, 1920, 15-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

1902



UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

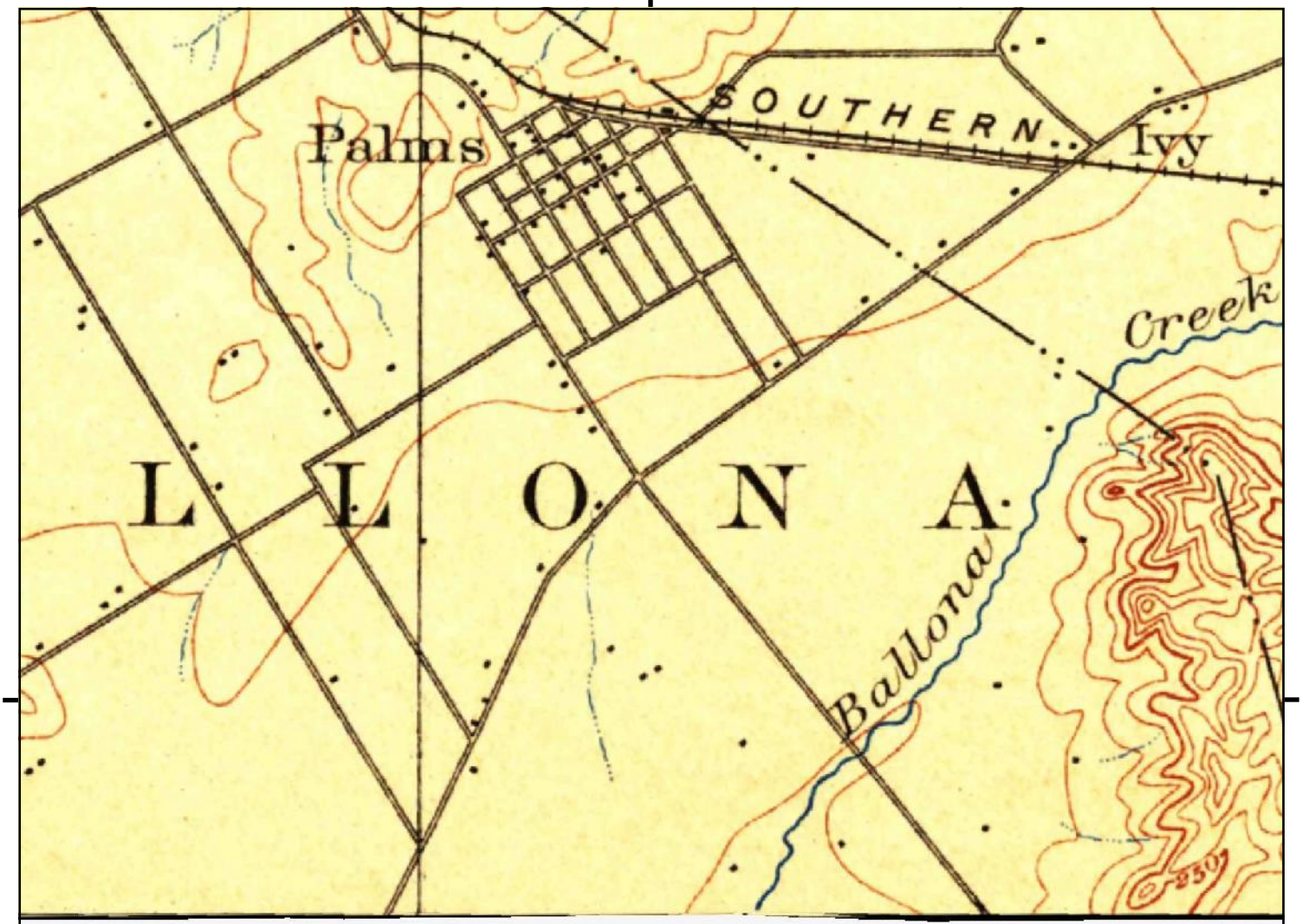
TP, Santa Monica, 1902, 15-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

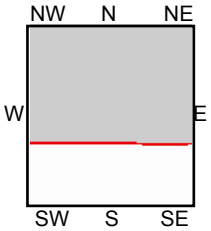
1900



UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



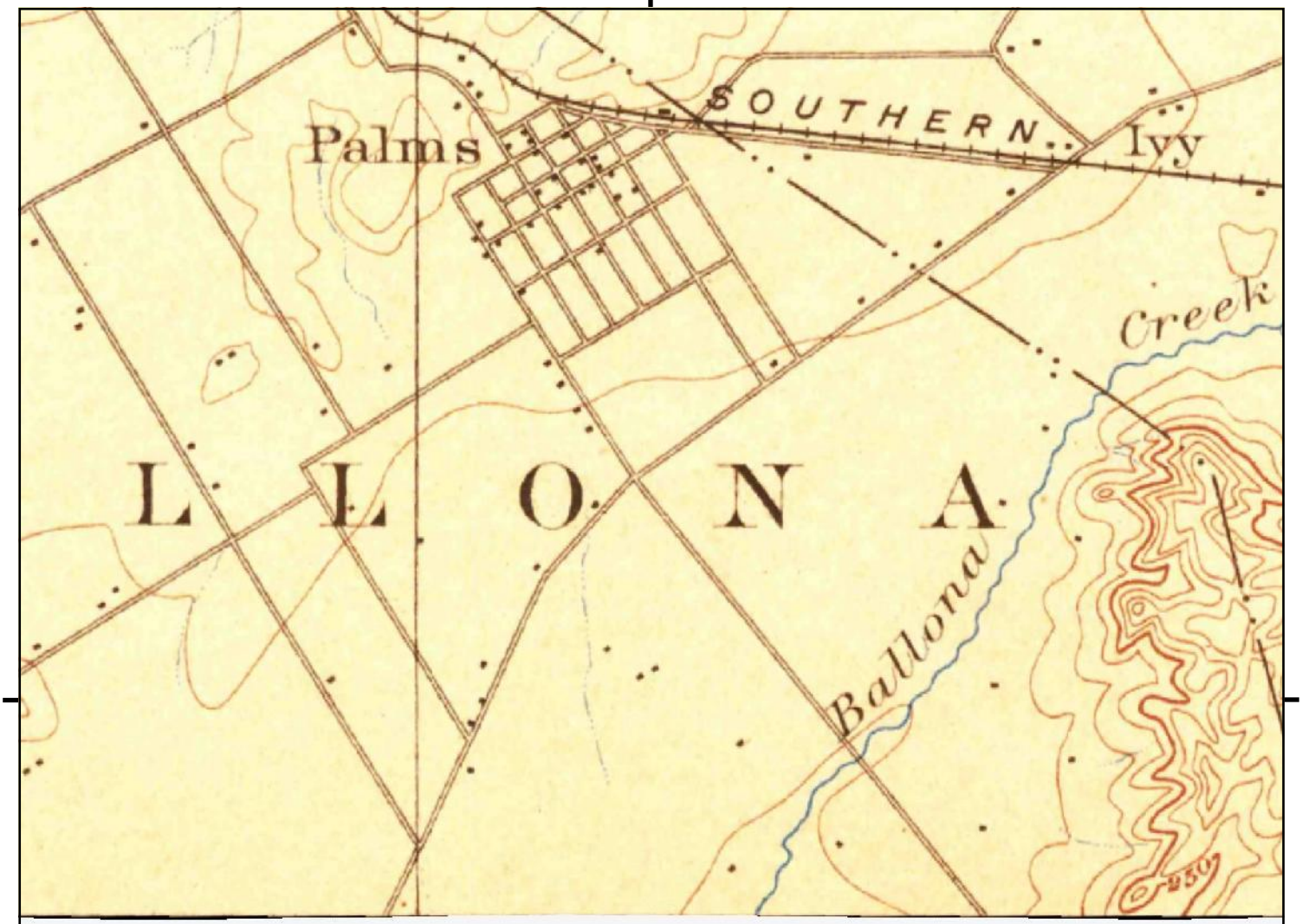
TP, Los Angeles, 1900, 15-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

1898



UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

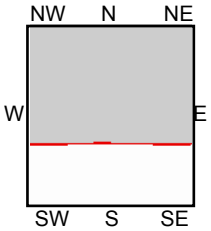
UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



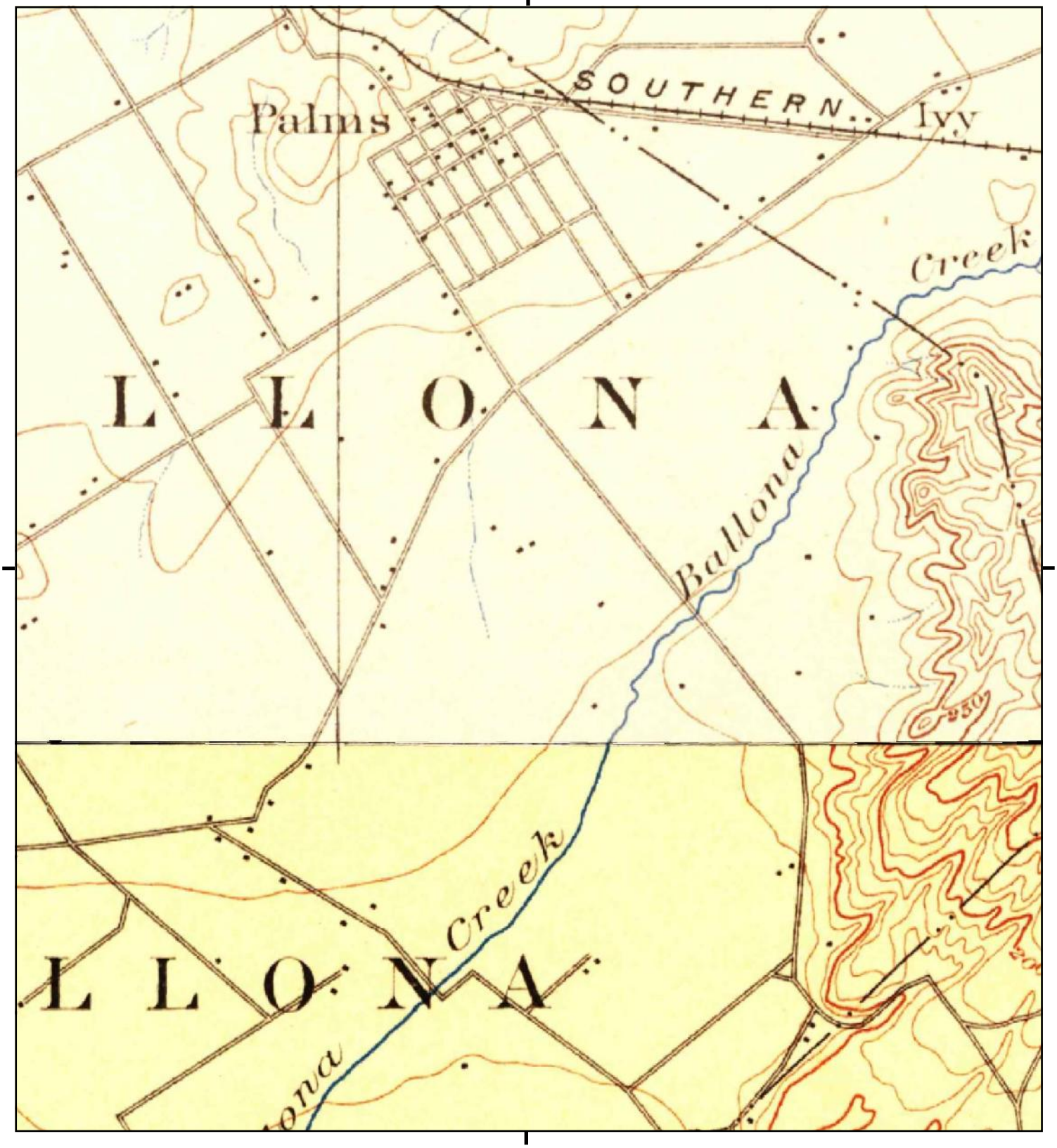
TP, Santa Monica, 1898, 15-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

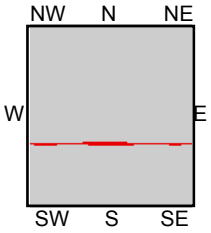
Historical Topo Map

1896



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



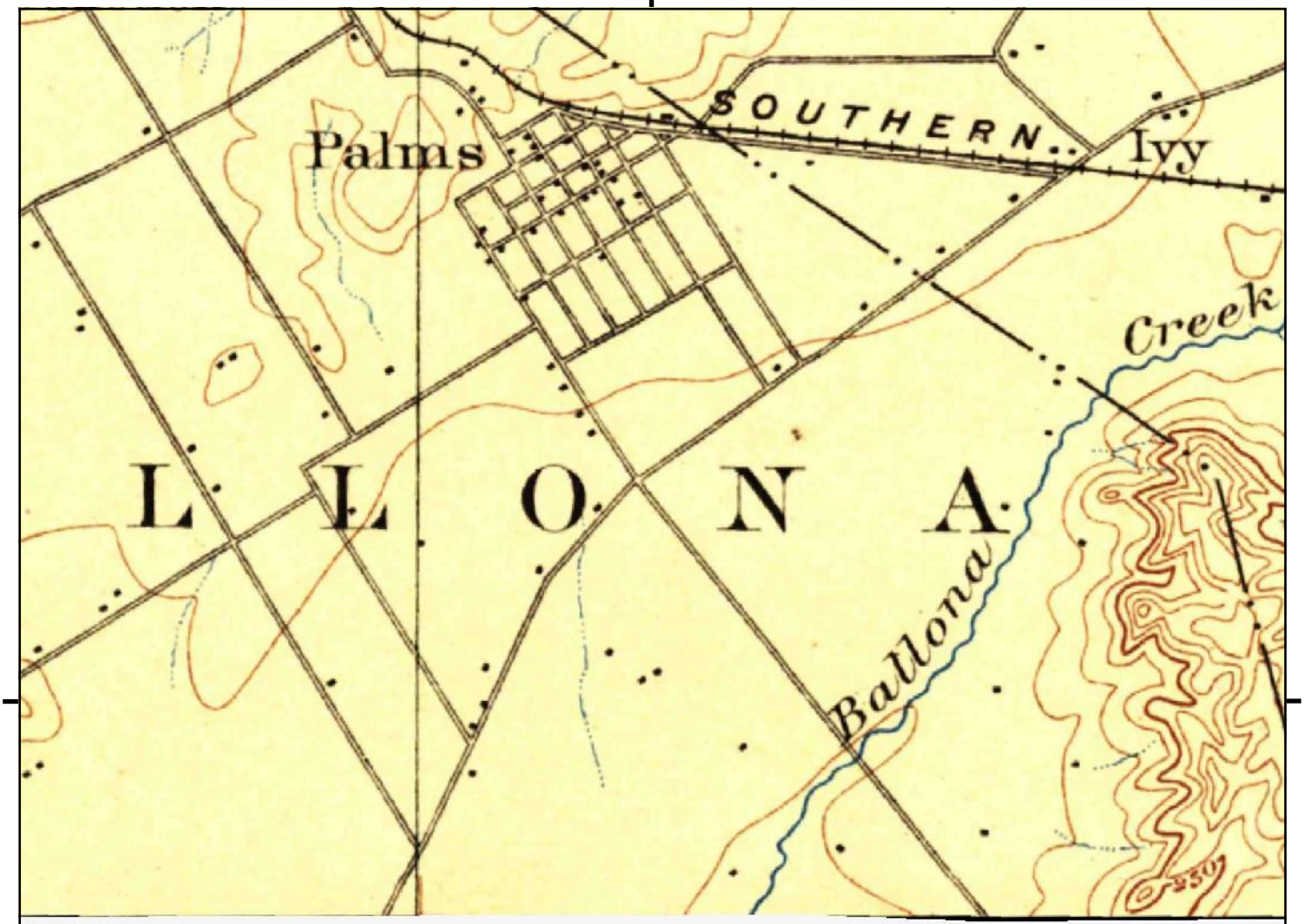
TP, Santa Monica, 1896, 15-minute
S, Redondo, 1896, 15-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

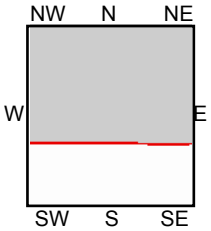
1894



UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED
UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED
UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED
UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, Los Angeles, 1894, 15-minute

SITE NAME: Culver Boulevard Realignment/Urban Sto
ADDRESS: 4246 Sepulveda Boulevard
CULVER CITY, CA 90230
CLIENT: Tetra Tech, Inc.

N

B HISTORICAL AERIAL PHOTOGRAPHS

Culver Boulevard Realignment/Urban Stormwater

4246 Sepulveda Boulevard

CULVER CITY, CA 90230

Inquiry Number: 5530785.11

January 11, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

01/11/19

Site Name:

Culver Boulevard Realignment
4246 Sepulveda Boulevard
CULVER CITY, CA 90230
EDR Inquiry # 5530785.11

Client Name:

Tetra Tech, Inc.
5383 Hollister Avenue, Suite 130
Santa Barbara, CA 93111
Contact: Jim.steele

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 10, 2002	USDA
1994	1"=500'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1981	1"=500'	Flight Date: February 21, 1981	EDR Proprietary Brewster Pacific
1979	1"=500'	Flight Date: May 11, 1979	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: May 29, 1977	EDR Proprietary Brewster Pacific
1953	1"=500'	Flight Date: November 19, 1953	USDA
1947	1"=500'	Flight Date: June 22, 1947	FAIR
1938	1"=500'	Flight Date: May 22, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

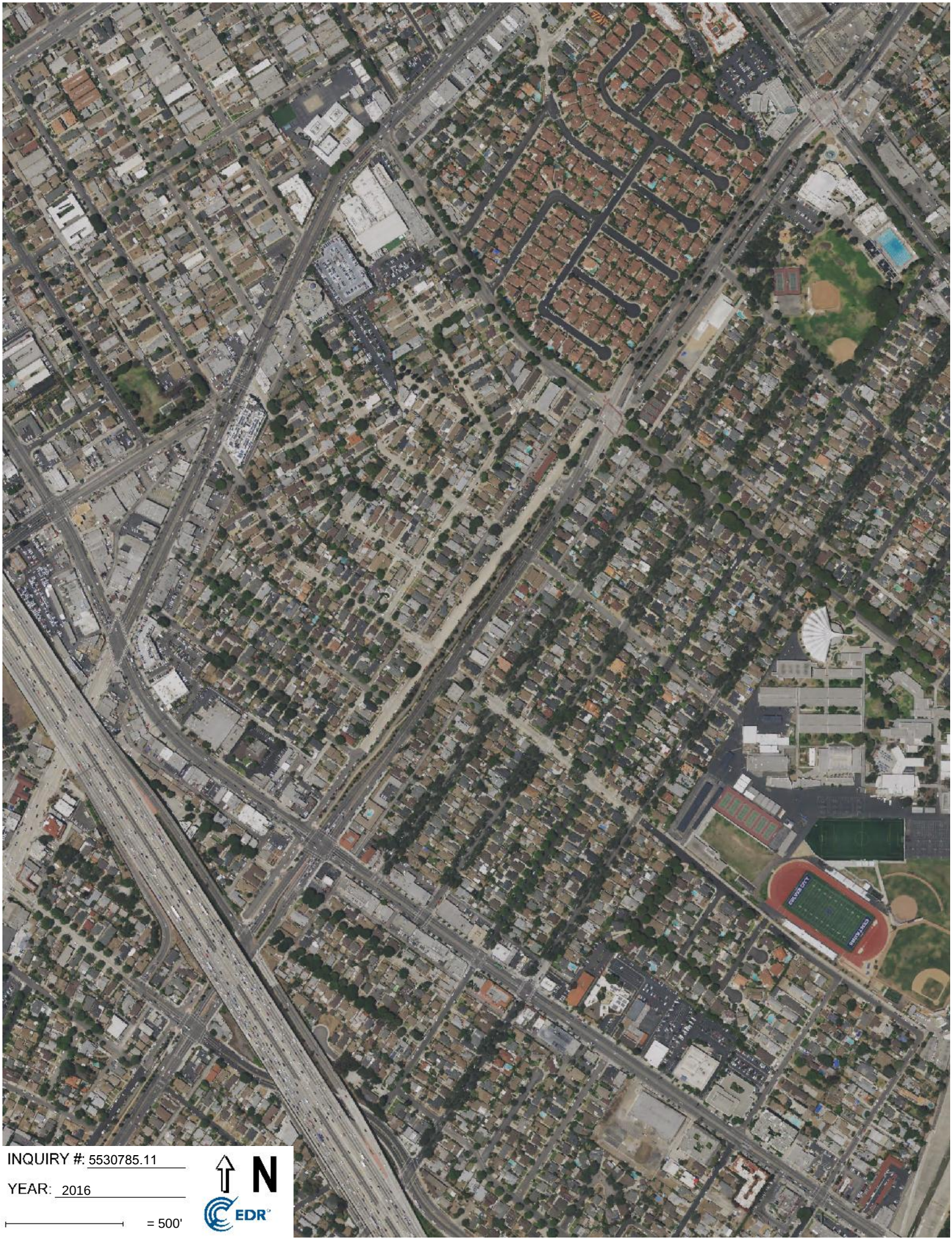
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.


INQUIRY #: 5530785.11
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 5530785.11

YEAR: 2012

= 500'

N

EDR

INQUIRY #: 5530785.11
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 5530785.11
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 5530785.11

YEAR: 2002

= 500'

N

EDR

INQUIRY #: 5530785.11
YEAR: 1994
= 500'
N
EDR

INQUIRY #: 5530785.11

YEAR: 1989

= 500'

N

EDR

INQUIRY #: 5530785.11

YEAR: 1981

= 500'

N

EDR

INQUIRY #: 5530785.11
YEAR: 1979
= 500'
N
EDR

INQUIRY #: 5530785.11

YEAR: 1977

= 500'

N

EDR

INQUIRY #: 5530785.11

YEAR: 1953

= 500'

N

EDR

INQUIRY #: 5530785.11
YEAR: 1947
= 500'
N
EDR

INQUIRY #: 5530785.11

YEAR: 1938

= 500'

N

EDR

INQUIRY #: 5530785.11
YEAR: 1928
= 500'
N
EDR

C AGENCY/UTILITY CONTACT DOCUMENTATION

Well Finder
DOGGR GIS

More Info | Help | ©

Well Status and Well Type Filter

Checkbox Filter

Search

By Attribute | By Shape

Select A Layer:

Well

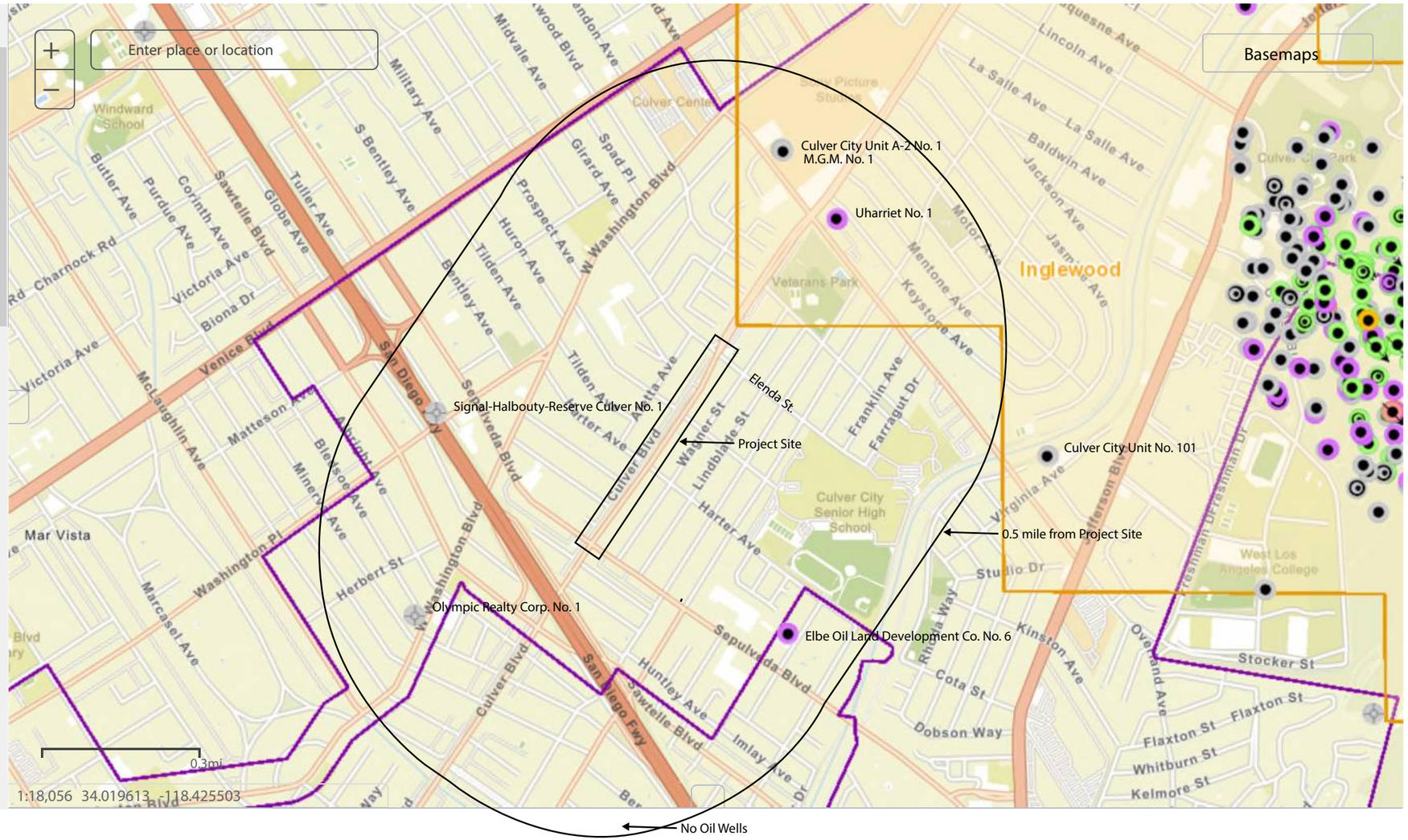
API:

Apply Spatial Filter:

Entire Map (No Filter)

Add To Existing Results:

Search

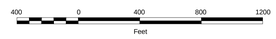


122

See Map 117, Beverly Hills, Cheviot Hills

See Map 118, Las Cienegas

August 13, 2008



State of California - Department of Conservation

Division of Oil, Gas, and Geothermal Resources

NOTE: Wells with directional surveys on file with the division are indicated with a short line under the well symbol.
Current well status should be confirmed at the appropriate division office.

The Department of Conservation makes no warranties as to the suitability of this product for any particular purpose.

Some base map data are provided by ETAK, Inc. © 1984-1998.

LEGEND

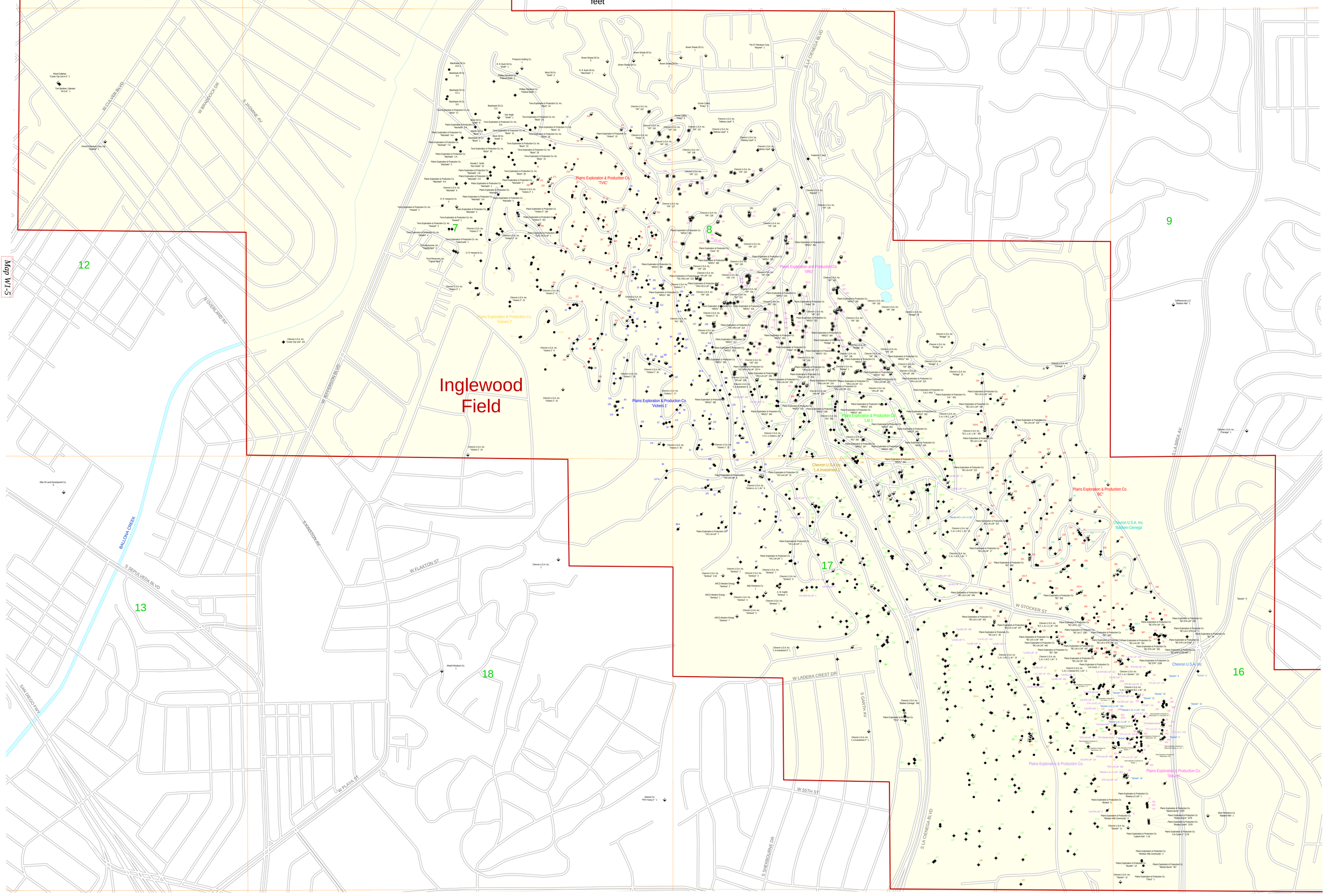
- Drilling
- Drilling - idle
- Plugged and abandoned - dry hole
- Completed - oil
- Idle - oil
- Plugged and abandoned - oil
- Completed - gas
- Idle - gas
- Plugged and abandoned - gas
- Completed - water disposal
- Completed - waterflood
- Idle - observation
- Oil - converted to water disposal
- Completed - gas injection
- Buried idle
- Abandoned - conductor
- Gas injection
- Gas - open to oil zone
- Water source
- Plugged & abandoned - oil & gas
- Gas storage
- Observation
- Gas - converted to gas storage
- Abandoned oil - converted to water disposal
- Oil - converted to air storage
- Plugged and abandoned - waterflood
- Plugged and abandoned - oil to waterflood
- Idle - dual completion - producing oil and disposal

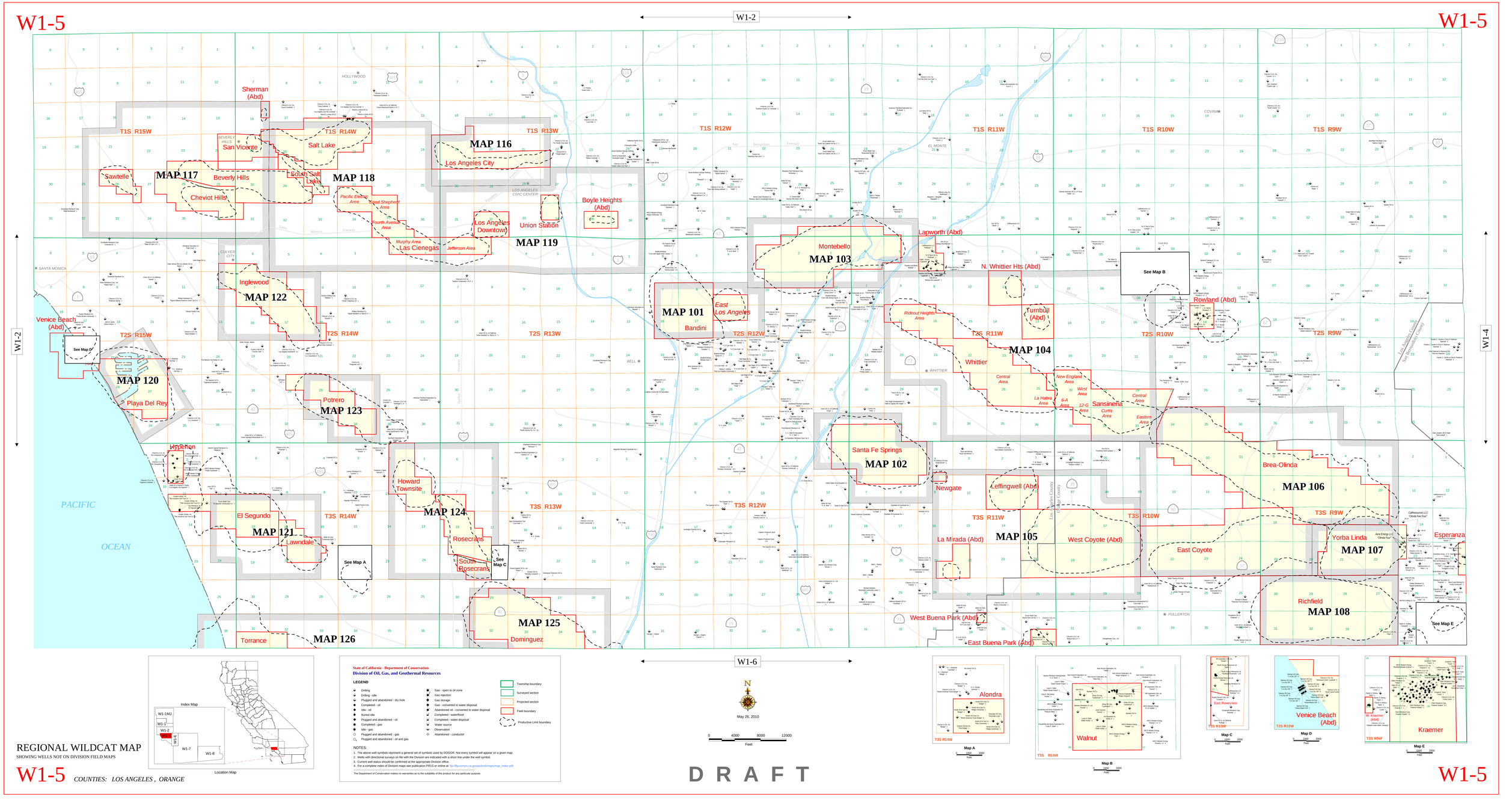
Symbols with a circle around them ( ) represent Vickers-Rindge Zone Unit, Stocker Resources, Inc.
Symbols with a half-circle under them ( ) represent West Robel Unit, Stocker Resources, Inc.

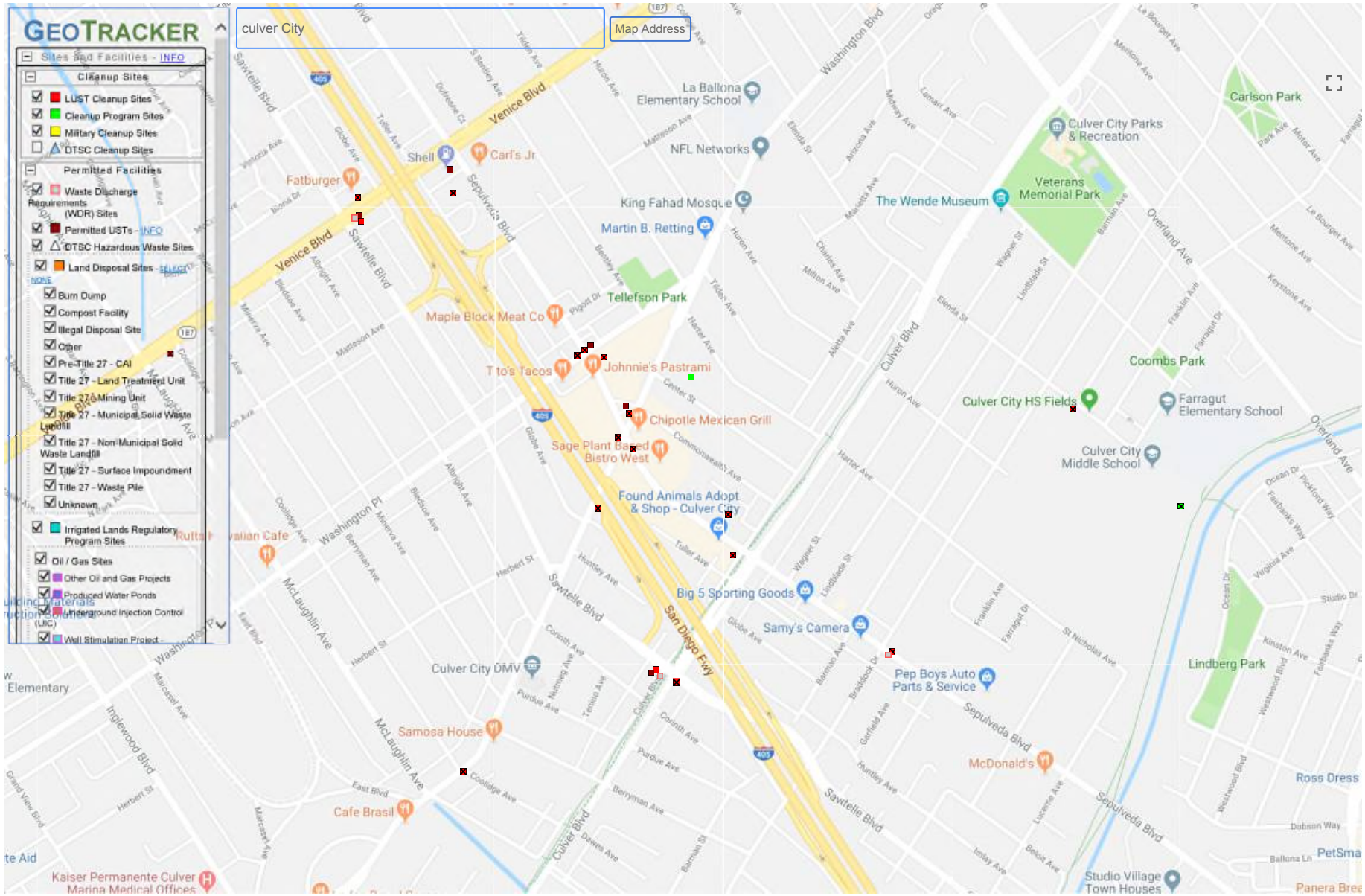
Field boundary

FIELD: Inglewood
COUNTY: Los Angeles

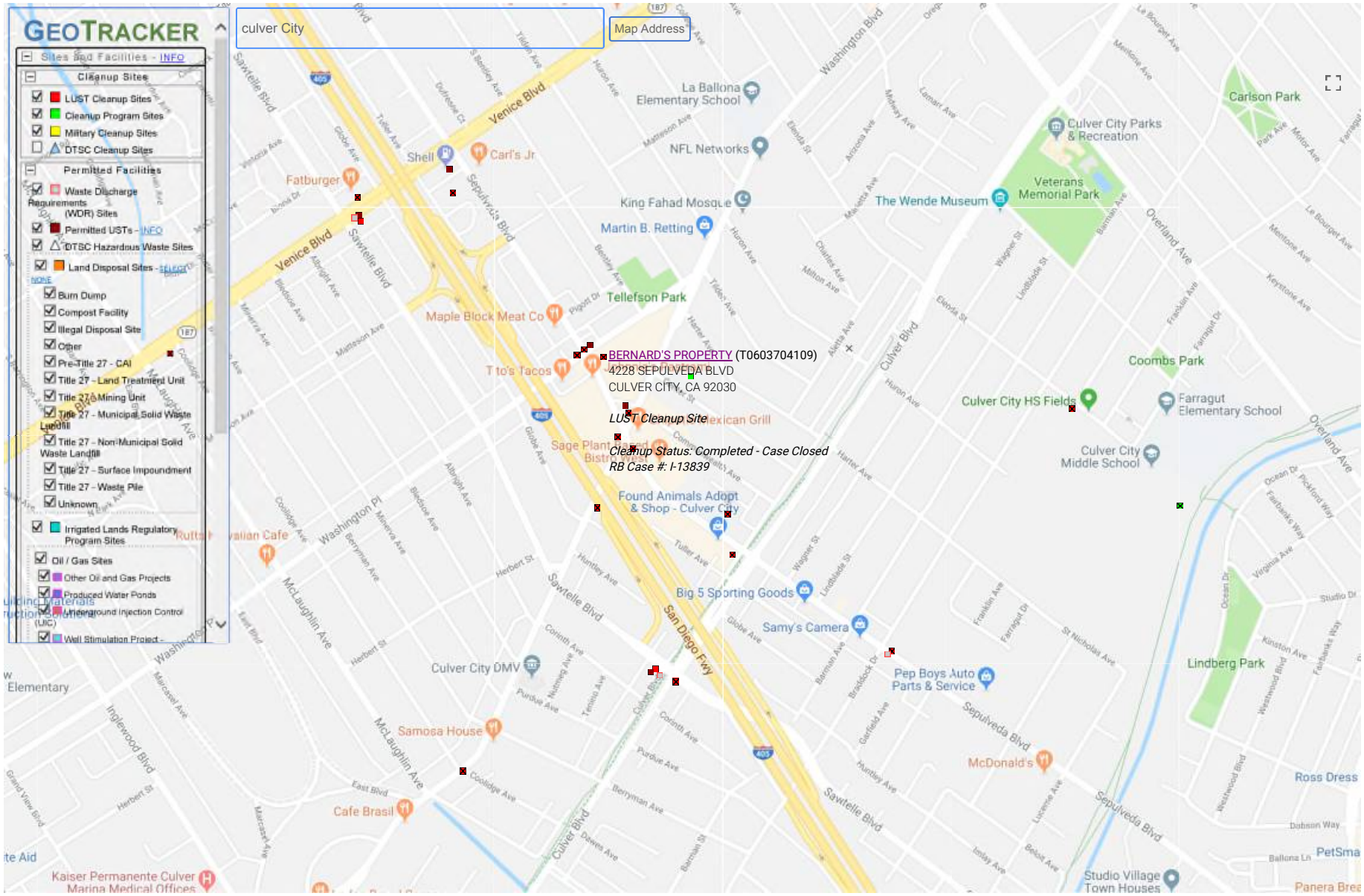
DRAFT



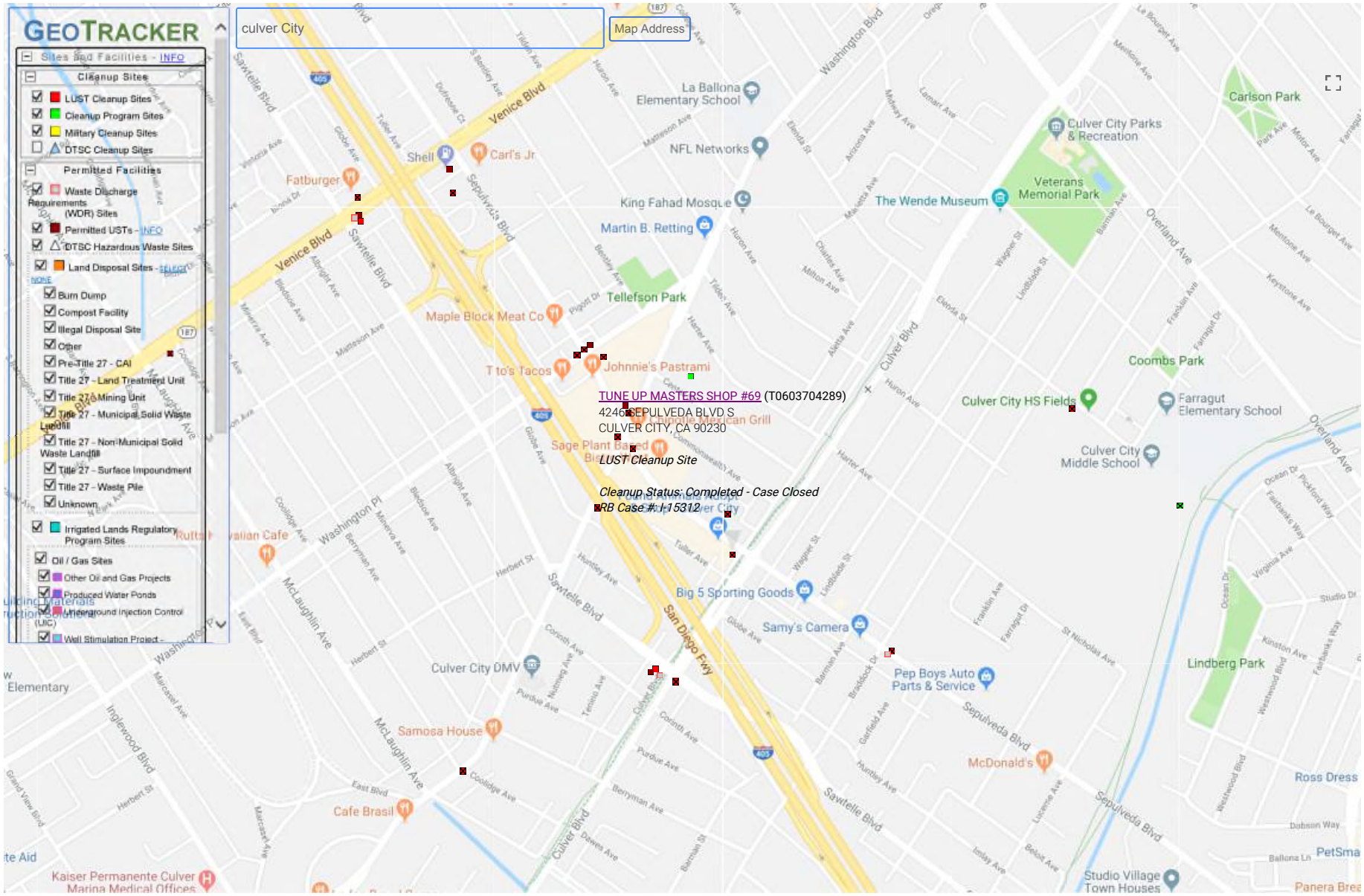

W1-5
W1-2
W1-4
W1-6
MAP 116
Los Angeles City
MAP 117
Sawtelle
Beverly Hills
Cheviot Hills
MAP 118
Salt Lake
South Salt Lake
Sherman (Abd)
San Vicente
Pacific Electric Area
Good Shepherd Area
Fourth Avenue Area
Murphy Area
Las Cienegas
Jefferson Area
Los Angeles Downtown
Union Station
Boyle Heights (Abd)
MAP 119
MAP 103
Montebello
Lapworth (Abd)
N. Whittier Hts (Abd)
Turnbull (Abd)
Rowland (Abd)
MAP 104
Whittier
Rideout Heights Area
Central Area
New England Area
West Area
La Habra Area
6-A Area
12-G Area
Sansinena
Curtis Area
Eastern Area
MAP 101
Bandini
East Los Angeles
MAP 122
Inglewood
MAP 120
Venice Beach (Abd)
Playa Del Rey
MAP 123
Potrero
Hyperion
MAP 124
Howard Townsite
Rosecrans
South Rosecrans
MAP 121
El Segundo
Lawndale
MAP 125
Dominguez
MAP 126
Torrance
MAP 102
Santa Fe Springs
Newgate
Leffingwell (Abd)
MAP 105
La Mirada (Abd)
West Coyote (Abd)
East Coyote
MAP 106
Brea-Olinda
MAP 107
Yorba Linda
Esperanza
MAP 108
Richfield
West Buena Park (Abd)
East Buena Park (Abd)
PACIFIC
OCEAN
See Map A
See Map B
See Map C
See Map D
See Map E
T1S R15W
T1S R14W
T1S R13W
T1S R12W
T1S R11W
T1S R10W
T1S R9W
T2S R15W
T2S R14W
T2S R13W
T2S R12W
T2S R11W
T2S R10W
T2S R9W
T3S R14W
T3S R13W
T3S R12W
T3S R11W
T3S R10W
T3S R9W
Index Map
Location Map
W1-1MJ
W1-1
W1-2
W1-5
W1-6
W1-7
W1-8
State of California - Department of Conservation
Division of Oil, Gas, and Geothermal Resources
LEGEND
Drilling
Drilling - idle
Plugged and abandoned - dry hole
Completed - oil
Idle - oil
Buried idle
Plugged and abandoned - oil
Completed - gas
Idle - gas
Plugged and abandoned - gas
Plugged and abandoned - oil and gas
Gas - open to oil zone
Gas injection
Gas storage
Gas - converted to water disposal
Abandoned oil - converted to water disposal
Completed - waterflood
Completed - water disposal
Water source
Observation
Abandoned - conductor
Township boundary
Surveyed section
Projected section
Field boundary
Productive Limit boundary
NOTES:
1. The above well symbols represent a general set of symbols used by DOGGR. Not every symbol will appear on a given map.
2. Wells with directional surveys on file with the Division are indicated with a short line under the well symbol.
3. Current well status should be confirmed at the appropriate Division office.
4. For a complete index of Division maps see publication PR15 or online at ftp://ftp.conserv.ca.gov/pub/oil/maps/map_index.pdf
The Department of Conservation makes no warranties as to the suitability of this product for any particular purpose.
N
May 26, 2010
0 4000 8000 12000
Feet
Alondra
Walnut
Venice Beach (Abd)
Kraemer
Map A
Map B
Map C
Map D
Map E
REGIONAL WILDCAT MAP
SHOWING WELLS NOT ON DIVISION FIELD MAPS
COUNTIES: LOS ANGELES , ORANGE
DRAFT



SITES CURRENTLY VISIBLE ON MAP



SITES CURRENTLY VISIBLE ON MAP

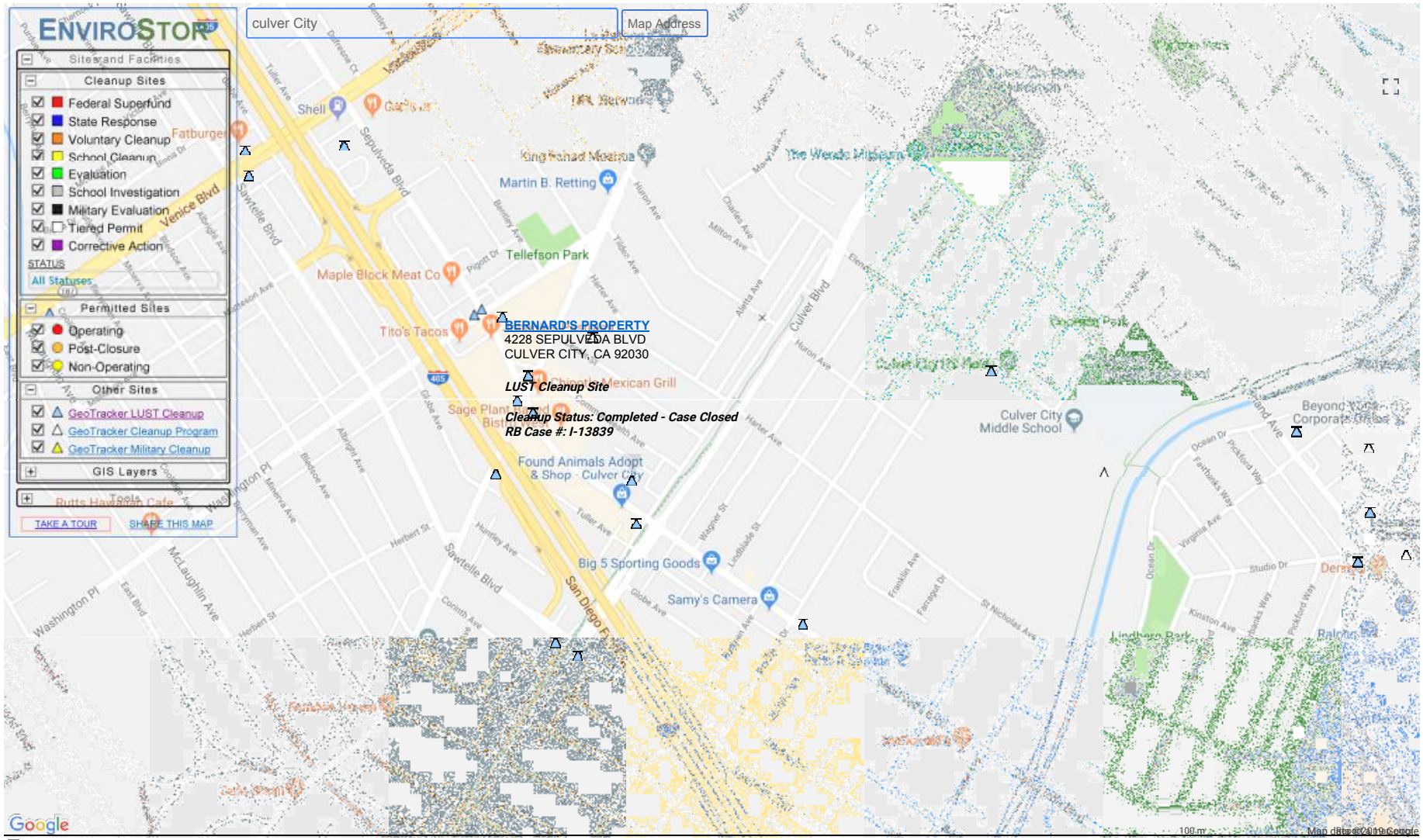

GEOTRACKER
culver City
Map Address
Sites and Facilities - INFO
Cleanup Sites
LUST Cleanup Sites
Cleanup Program Sites
Military Cleanup Sites
DTSC Cleanup Sites
Permitted Facilities
Waste Discharge Requirements (WDR) Sites
Permitted USTs - INFO
DTSC Hazardous Waste Sites
Land Disposal Sites - SELECT NONE
Burn Dump
Compost Facility
Illegal Disposal Site
Other
Pre-Title 27 - CAI
Title 27 - Land Treatment Unit
Title 27 - Mining Unit
Title 27 - Municipal Solid Waste Landfill
Title 27 - Non-Municipal Solid Waste Landfill
Title 27 - Surface Impoundment
Title 27 - Waste Pile
Unknown
Irrigated Lands Regulatory Program Sites
Oil / Gas Sites
Other Oil and Gas Projects
Produced Water Ponds
Underground Injection Control (UIC)
Well Stimulation Project -
TUNE UP MASTERS SHOP #69 (T0603704289)
4246 SEPULVEDA BLVD S
CULVER CITY, CA 90230
LUST Cleanup Site
Cleanup Status: Completed - Case Closed
RB Case #: 1-15312
Venice Blvd
Sepulveda Blvd
Sawtelle Blvd
Washington Blvd
Culver Blvd
Overland Ave
McLaughlin Ave
San Diego Fwy
La Ballona Elementary School
NFL Networks
Shell
Carl's Jr
Fatburger
King Fahad Mosque
Martin B. Retting
Tellefson Park
Maple Block Meat Co
T to's Tacos
Johnnie's Pastrami
Sage Plant Based
Big 5 Sporting Goods
Samy's Camera
Culver City DMV
Samosa House
Cafe Brasil
Pep Boys Auto Parts & Service
McDonald's
Culver City Parks & Recreation
Veterans Memorial Park
The Wende Museum
Carlson Park
Coombs Park
Culver City HS Fields
Farragut Elementary School
Culver City Middle School
Lindberg Park
Ross Dress
Studio Village Town Houses
Kaiser Permanente Culver Marina Medical Offices
Google
100 m
Map data ©2019 Google
SITES CURRENTLY VISIBLE ON MAP

SITES CURRENTLY VISIBLE ON MAP

0 SITES LISTED

EXPORT THIS LIST TO EXCEL

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY

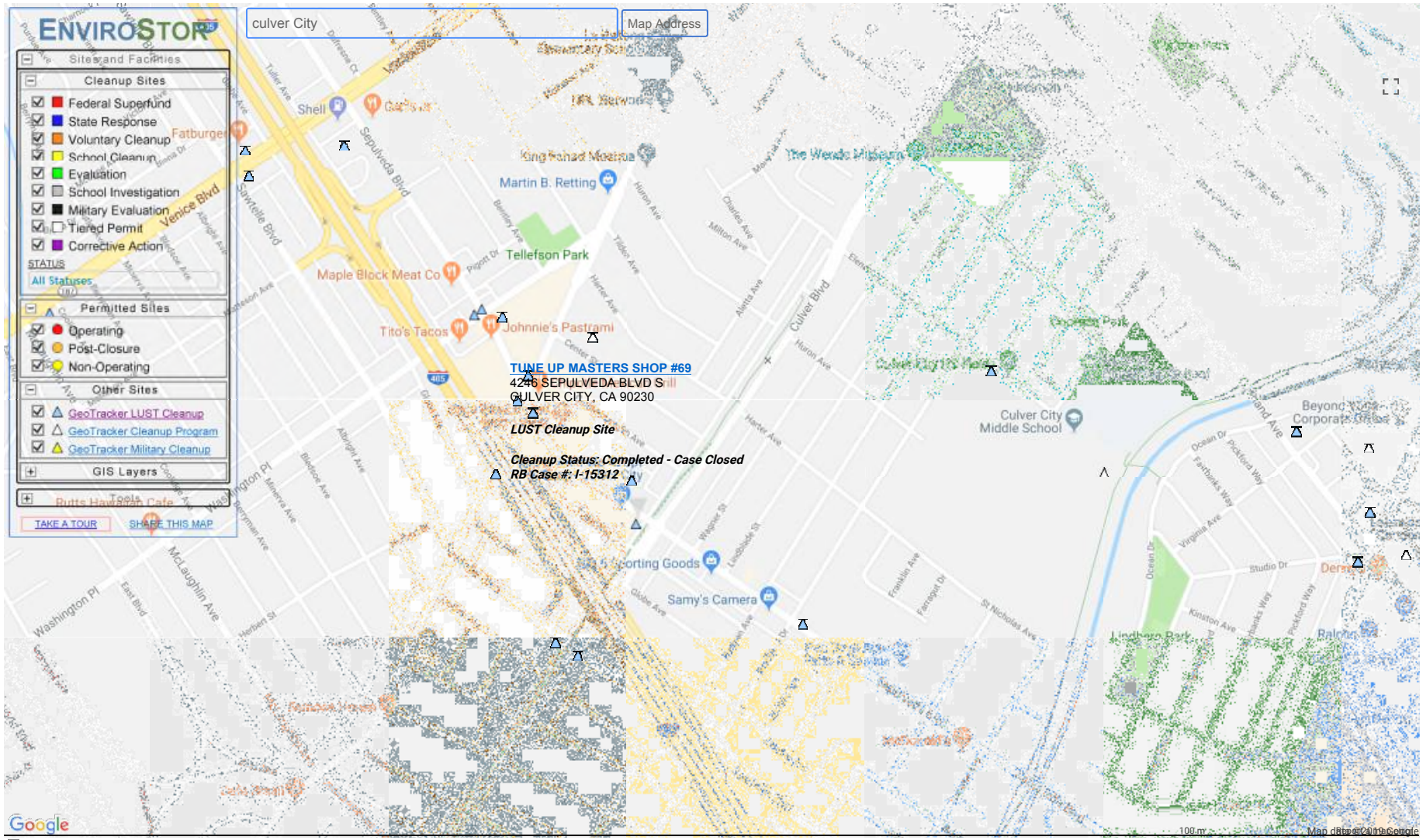


SITES CURRENTLY VISIBLE ON MAP

0 SITES LISTED

EXPORT THIS LIST TO EXCEL

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY



SITES CURRENTLY VISIBLE ON MAP

0 SITES LISTED

EXPORT THIS LIST TO EXCEL

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY

D ENVIRONMENTAL DATA RESOURCES REPORT

Culver Boulevard Realignment/Urban Stormwater

4246 Sepulveda Boulevard

CULVER CITY, CA 90230

Inquiry Number: 5530785.3

January 10, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/10/19

Site Name:	Client Name:
Culver Boulevard Realignment/	Tetra Tech, Inc.
4246 Sepulveda Boulevard	5383 Hollister Avenue, Suite 130
CULVER CITY, CA 90230	Santa Barbara, CA 93111
EDR Inquiry # 5530785.3	Contact: Jim.steele

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 8625-4DF6-AE3B

PO # NA

Project 100-IWM-T38173

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 8625-4DF6-AE3B

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Tetra Tech, Inc. (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Culver Boulevard Realignment/Urban Stormwater
4246 Sepulveda Boulevard
CULVER CITY, CA 90230

Inquiry Number: 5530785.2s
January 10, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	200
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-9
Physical Setting Source Map Findings	A-10
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2018 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

4246 SEPULVEDA BOULEVARD
CULVER CITY, CA 90230

COORDINATES

Latitude (North):	34.0051560 - 34˚ 0' 18.56''
Longitude (West):	118.4101660 - 118˚ 24' 36.59''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	369774.2
UTM Y (Meters):	3763429.5
Elevation:	54 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630733 BEVERLY HILLS, CA
Version Date:	2012
South Map:	5640438 VENICE, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
4246 SEPULVEDA BOULEVARD
CULVER CITY, CA 90230

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	TUNEUP MASTERS	4246 SEPULVEDA BLVD	LUST, HIST UST, HIST CORTESE, LOS ANGELES CO. HMS		TP
A2	TUNE UP MASTERS SHOP	4246 SEPULVEDA BLVD	RGA LUST		TP
A3	TUNE UP MASTERS SHOP	4246 SEPULVEDA BLVD.	RGA LUST		TP
A4	MIKE KARAGOEIN	4246 SEPULVEDA BLVD	HAZNET		TP
A5	TUNE UP MASTERS SHOP	4246 SEPULVEDA BLVD	RGA LUST		TP
A6	AUTOMOTIVE TECH INC	4246 S SEPULVEDA BLV	HIST UST, HAZNET		TP
A7	TUNE UP MASTERS SHOP	4246 SEPULVEDA BLVD	FINDS		TP
A8	TUNE UP MASTERS INC	4246 SEPULVEDA BLVD	HAZNET		TP
B9	PEREZ JOSE FOREIGN C	4301 SEPULVEDA BLVD	EDR Hist Auto	Lower	1 ft.
A10	PALM TREE GAS & WASH	11182 CULVER BLVD	EDR Hist Auto	Lower	1 ft.
A11	PALM TREE GAS N WASH	11182 CULVER BLVD	SWEEPS UST	Lower	1 ft.
A12	LINDQUIST MOTORS INC	4235 SEPULVEDA BLVD	UST	Higher	81, 0.015, WSW
A13	FOOGERTS INC	4235 SEPULVEDA BLVD	SWEEPS UST, LOS ANGELES CO. HMS	Higher	81, 0.015, WSW
B14	ED LITTLE AUTO SERVI	4318 SEPULVEDA BLVD	RCRA-SQG, FINDS, ECHO, LOS ANGELES CO. HMS	Lower	84, 0.016, SE
A15	BERNARD'S PROPERTY	4228 SEPULVEDA BLVD	LUST, SWEEPS UST, HIST CORTESE	Higher	113, 0.021, NW
16	NORTH THOMAS L	4117 HURON AVE	EDR Hist Auto	Lower	450, 0.085, NNE
17	TRADER JIMS CAMERA &	4349 SEPULVEDA BLVD	RCRA-SQG, FINDS, ECHO, HAZNET	Lower	491, 0.093, SE
18	AM PM BUSINESS SERVI	4149 SEPULVEDA BLVD	EDR Hist Auto	Higher	546, 0.103, WNW
19	ELIZABETH COOMBS	10935 BRADDOCK DR	RCRA-SQG, HAZNET	Lower	806, 0.153, ENE
C20	ALBERTSON OLDSMOBILE	4114 SEPULVEDA BLVD	RCRA-SQG, FINDS, ECHO	Higher	815, 0.154, NW
C21	ALBERTSON OLDSMOBILE	4114 S SEPULVEDA BLV	SWEEPS UST, CA FID UST, LOS ANGELES CO. HMS	Higher	815, 0.154, NW
C22	ALBERTSON OLDSMOBILE	4114 SEPULVEDA BLVD	HIST UST	Higher	815, 0.154, NW
C23	ALBERTSON BROTHER OL	4114 SEPULVEDA	LUST, ENF, HIST CORTESE, CIWQS	Higher	815, 0.154, NW
D24	UNITED AXLE REBUILDE	11218 W WASHINGTON B	RCRA-SQG, FINDS, ECHO	Higher	889, 0.168, WNW
D25	CULVER CITY FIRE STA	11252 WASHINGTON	HIST UST, ENF, HIST CORTESE	Higher	976, 0.185, WNW
D26	CULVER CITY FIRE STA	11252 WASHINGTON BLV	UST	Higher	976, 0.185, WNW
D27	CITY OF CULVER CITY	11252 WASHINGTON BLV	LUST, SWEEPS UST, HIST UST, LOS ANGELES CO. HMS	Higher	976, 0.185, WNW
E28	VIC'S UNION 76	11305 CULVER BLVD	UST	Lower	1011, 0.191, SSW
E29	UNION OIL SERVICE ST	11305 CULVER BOULEVA	LUST, HIST UST, HIST CORTESE	Lower	1011, 0.191, SSW
E30	CULVER INVESTMENT CO	11305 CULVER BLVD (U	UST	Lower	1011, 0.191, SSW
E31	SERVICE STATION 5836	11305 CULVER BLVD	HIST UST	Lower	1011, 0.191, SSW
E32	UNOCAL CORP	11305 CULVER BLVD	SWEEPS UST	Lower	1011, 0.191, SSW
E33	TOSCO - 76 STATION #	11305 CULVER BLVD	LUST	Lower	1011, 0.191, SSW
E34	TODDS AUTOMOTIVE SER	11304 CULVER BLVD	HIST UST	Lower	1014, 0.192, SSW
E35	THRIFTY OIL CO/C	11304 CULVER BLVD	SWEEPS UST, HIST UST	Lower	1014, 0.192, SSW
E36	ARCO #9463/FORMER TH	11304 CULVER	LUST, HIST CORTESE	Lower	1014, 0.192, SSW
E37	ARCO PRODUCTS COMPAN	11304 CULVER BLVD	HIST UST, HAZNET	Lower	1014, 0.192, SSW
E38	THRIFTY #249 (FORMER	11304 CULVER BLVD	LUST, HAZNET	Lower	1014, 0.192, SSW
C39	KAYO OIL CO SS	11198 W WASHINGTON B	SWEEPS UST	Lower	1042, 0.197, NW

MAPPED SITES SUMMARY

Target Property Address:
4246 SEPULVEDA BOULEVARD
CULVER CITY, CA 90230

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	HAMILTON AVNET ELECT	10950 W WASHINGTON B	RCRA-SQG, FINDS, ECHO, HAZNET	Higher	1043, 0.198, North
E41	UNOCAL CORP SS 5836	11305 CULVER BLVD	SWEEPS UST	Lower	1044, 0.198, SW
F42	UNOCAL CORP SS 5407	4436 SEPULVEDA BLVD	SWEEPS UST, CA FID UST, LOS ANGELES CO. HMS	Lower	1075, 0.204, SE
F43	TOSCO/UNOCAL #30873	4436 SEPULVEDA BLVD	UST	Lower	1075, 0.204, SE
F44	UNION OIL SERVICE ST	4436 SEPULVEDA BLVD	HIST UST	Lower	1075, 0.204, SE
F45	TOSCO - 76 STATION #	4436 SEPULVEDA BLVD	LUST, HAZNET, HIST CORTESE	Lower	1075, 0.204, SE
F46	SERVICE STATION 5407	4436 SEPULVEDA BLVDS	HIST UST	Lower	1075, 0.204, SE
47	THOMAS LENNARTZ D C	11274 WASHINGTON BLV	RCRA-SQG, FINDS, ECHO, HAZNET	Higher	1091, 0.207, West
G48	OHMEGA TECHNOLOGIES	4031 ELENDA ST	SWEEPS UST, LOS ANGELES CO. HMS	Higher	1115, 0.211, North
G49	MICA CORP THE	4031 ELENDA ST	SEMS-ARCHIVE	Higher	1115, 0.211, North
G50	OHMEGA TECHNOLOGIES	4031 ELENDA ST	RCRA-SQG, ENVIROSTOR, FINDS, ECHO, HAZNET, LOS...	Higher	1115, 0.211, North
H51	SUNSHINE CTR CLEANER	11124 W WASHINGTON B	DRYCLEANERS	Lower	1117, 0.212, NNW
H52	SUNSHINE CENTER DRY	11124 W WASHINGTON B	DRYCLEANERS	Lower	1117, 0.212, NNW
H53	TRANSNATIONAL PROPER	11124 WASHINGTON BLV	CPS-SLIC	Lower	1117, 0.212, NNW
E54	APARTMENT HOUSE	4272 CORINTH AVE.	RCRA-SQG	Lower	1143, 0.216, SW
I55	SOBHI F IBRAHIM	11181 WASHINGTON BLV	HIST UST	Lower	1183, 0.224, NW
I56	JASPAL INC.	11181 WASHINGTON BLV	UST	Lower	1183, 0.224, NW
I57	SOBHI F IBRAHIM	11181 W WASHINGTON B	HIST UST, HAZNET	Lower	1183, 0.224, NW
I58	ARCO #1246	11181 WASHINGTON BLV	LUST, HIST CORTESE	Lower	1183, 0.224, NW
I59	ARCO PRODUCTS #01246	11181 WASHINGTON BLV	SWEEPS UST, CA FID UST, LOS ANGELES CO. HMS	Lower	1183, 0.224, NW
I60	CENTER PAINT COMPANY	11153 WASHINGTON BLV	SWEEPS UST	Lower	1261, 0.239, NNW
J61	CULVER CITY VOLVO	11201 WASHINGTON BLV	RCRA-SQG, LUST, HIST UST, FINDS, ECHO, HAZNET,...	Lower	1267, 0.240, NW
J62	CULVER CITY VOLVO	11201 W WASHINGTON B	AST	Lower	1267, 0.240, NW
J63	CULVER CITY VOLVO	11201 WASHINGTON BLV	SWEEPS UST, CA FID UST, LOS ANGELES CO. HMS	Lower	1267, 0.240, NW
K64	CONOCO INC	11198 WASHINGTON PLA	LUST, ENF, HIST CORTESE	Higher	1504, 0.285, NW
L65	CULVER CITY UNFD SCH	4401 ELENDA	RCRA-SQG, LUST, FINDS, ECHO	Higher	1518, 0.287, ENE
L66	CULVER CITY UNIFIED	4401 ELENDA ST	LUST, HAZNET, HIST CORTESE	Higher	1518, 0.287, ENE
67	76 STATION #252994	10638 CULVER BLVD	LUST, HIST CORTESE, LOS ANGELES CO. HMS	Higher	1583, 0.300, NE
K68	CHEVRON #9-2894, 111	11197 WASHINGTON PL	LUST, HIST CORTESE	Higher	1624, 0.308, NW
69	MGM DUMP	4001 OVERLAND AVENUE	SWF/LF	Higher	1684, 0.319, NNE
K70	FORMER UNOCAL SERVIC	11203 WASHINGTON PLA	LUST, ENF, HIST CORTESE, CIWQS	Higher	1764, 0.334, NW
M71	HARNER PROPERTY	4308 BERRYMAN AVE	ENVIROSTOR, LA Co. Site Mitigation	Lower	1982, 0.375, SW
N72	FREDERICK SMITH PROP	3535,3545 &3555 HAYD	CPS-SLIC	Lower	2156, 0.408, East
N73	PRUDENTIAL REALTY GR	2500 WALNUT AVE.	CPS-SLIC	Lower	2156, 0.408, East
M74	PAUL'S TRANSMISSION	11526 WASHINGTON BLV	LUST	Lower	2203, 0.417, SW
75	COMMERCIAL PROPERTY	10458 CULVER BOULEVA	LUST	Higher	2268, 0.430, NE
76	O-SEAL DEVISION	10567 JEFFERSON BOUL	ENVIROSTOR, HIST UST, HIST CORTESE	Lower	3702, 0.701, East
77	WESTWAY DEVELOPMENT	10100 JEFFERSON BLVD	ENVIROSTOR, VCP, DEED, EMI	Higher	4789, 0.907, ENE
78	THE HELP GROUP	12095-12175 W. WASHI	ENVIROSTOR	Lower	4856, 0.920, SW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
TUNEUP MASTERS 4246 SEPULVEDA BLVD CULVER CITY, CA 90230	LUST Database: LUST, Date of Government Version: 09/10/2018 Database: LUST REG 4, Date of Government Version: 09/07/2004 Status: Completed - Case Closed Facility Id: I-15312 Status: Case Closed Global Id: T0603704289 Global ID: T0603704289 HIST UST Facility Id: 00000055949 HIST CORTESE Reg Id: I-15312 LOS ANGELES CO. HMS Facility ID: 014660-015312	N/A
TUNE UP MASTERS SHOP 4246 SEPULVEDA BLVD LOS ANGELES, CA	RGA LUST	N/A
TUNE UP MASTERS SHOP 4246 SEPULVEDA BLVD. CULVER CITY, CA	RGA LUST	N/A
MIKE KARAGOEIN 4246 SEPULVEDA BLVD CULVER CITY, CA 90230	HAZNET GEPAID: CAC002626686	N/A
TUNE UP MASTERS SHOP 4246 SEPULVEDA BLVD CULVER CITY, CA	RGA LUST	N/A
AUTOMOTIVE TECH INC 4246 S SEPULVEDA BLV CULVER CITY, CA 90230	HIST UST HAZNET GEPAID: CAL000138197	N/A
TUNE UP MASTERS SHOP 4246 SEPULVEDA BLVD CULVER CITY, CA 90230	FINDS Registry ID:: 110066433899	N/A
TUNE UP MASTERS INC 4246 SEPULVEDA BLVD CULVER CITY, CA 90230	HAZNET	N/A

EXECUTIVE SUMMARY

GEPAID: CAL000206047

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing
SEMS ..... Superfund Enterprise Management System

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

Federal ERNS list

ERNS ..... Emergency Response Notification System

EXECUTIVE SUMMARY

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN..... Key Areas of Concerns in Los Angeles County
US HIST CDL..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites..... Historical Calsites Database
SCH..... School Property Evaluation Program
CDL..... Clandestine Drug Labs
CERS HAZ WASTE..... CERS HAZ WASTE
Toxic Pits..... Toxic Pits Cleanup Act Sites
US CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CERS TANKS..... California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS..... Environmental Liens Listing

LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing

Financial Assurance	Financial Assurance Information Listing
ICE	ICE
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
CERS	CERS
WIP	Well Investigation Program Case List
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
CIWQS	California Integrated Water Quality System
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
UIC GEO	UIC GEO (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 11/14/2018 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MICA CORP THE Site ID: 0902289 EPA Id: CAD981371289	4031 ELENDA ST	N 1/8 - 1/4 (0.211 mi.)	G49	92

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 10 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSON OLDSMOBILE EPA ID:: CA0001019660	***4114 SEPULVEDA BLVD***	***NW 1/8 - 1/4 (0.154 mi.)***	***C20***	***29***
UNITED AXLE REBUILDE EPA ID:: CAR000079905	***11218 W WASHINGTON B***	***WNW 1/8 - 1/4 (0.168 mi.)***	***D24***	***37***
HAMILTON AVNET ELECT EPA ID:: CAD982402711	***10950 W WASHINGTON B***	***N 1/8 - 1/4 (0.198 mi.)***	***40***	***74***
THOMAS LENNARTZ D C EPA ID:: CAD983625278	***11274 WASHINGTON BLV***	***W 1/8 - 1/4 (0.207 mi.)***	***47***	***89***
OHMEGA TECHNOLOGIES EPA ID:: CAD981397391	***4031 ELENDA ST***	***N 1/8 - 1/4 (0.211 mi.)***	***G50***	***94***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ED LITTLE AUTO SERVI	***4318 SEPULVEDA BLVD***	***SE 0 - 1/8 (0.016 mi.)***	***B14***	***19***

EPA ID:: CAD982508798				
TRADER JIMS CAMERA & EPA ID:: CAD982501041	***4349 SEPULVEDA BLVD***	***SE 0 - 1/8 (0.093 mi.)***	***17***	***24***
ELIZABETH COOMBS EPA ID:: CAR000171066	***10935 BRADDOCK DR***	***ENE 1/8 - 1/4 (0.153 mi.)***	***19***	***27***
APARTMENT HOUSE EPA ID:: CAC002564485	4272 CORINTH AVE.	SW 1/8 - 1/4 (0.216 mi.)	E54	103
CULVER CITY VOLVO EPA ID:: CAD028077394	***11201 WASHINGTON BLV***	***NW 1/8 - 1/4 (0.240 mi.)***	***J61***	***120***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/29/2018 has revealed that there are 5 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OHMEGA TECHNOLOGIES Facility Id: 71002813 Facility Id: 19300124 Status: Refer: Other Agency	***4031 ELENDA ST***	***N 1/8 - 1/4 (0.211 mi.)***	***G50***	***94***
WESTWAY DEVELOPMENT Facility Id: 19130110 Status: Certified O&M - Land Use Restrictions Only	***10100 JEFFERSON BLVD***	***ENE 1/2 - 1 (0.907 mi.)***	***77***	***193***

Lower Elevation	Address	Direction / Distance	Map ID	Page
HARNER PROPERTY Facility Id: 19000033 Status: Refer: 1248 Local Agency	***4308 BERRYMAN AVE***	***SW 1/4 - 1/2 (0.375 mi.)***	***M71***	***184***
O-SEAL DEVISION Facility Id: 19300055 Status: No Further Action	***10567 JEFFERSON BOUL***	***E 1/2 - 1 (0.701 mi.)***	***76***	***191***
THE HELP GROUP Facility Id: 19800038 Status: No Action Required	12095-12175 W. WASHI	SW 1/2 - 1 (0.920 mi.)	78	198

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MGM DUMP	4001 OVERLAND AVENUE	NNE 1/4 - 1/2 (0.319 mi.)	69	165

Database: SWF/LF (SWIS), Date of Government Version: 11/12/2018
Database: LOS ANGELES CO. LF, Date of Government Version: 10/15/2018
Facility ID: 19-AA-5557
Site ID: 2196
Status: Closed
Operational Status: Closed
Regulation Status: Unpermitted

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 18 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BERNARD'S PROPERTY	***4228 SEPULVEDA BLVD***	***NW 0 - 1/8 (0.021 mi.)***	***A15***	***21***

Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-13839
Status: Case Closed
Global Id: T0603704109
Global ID: T0603704109

ALBERTSON BROTHER OL	***4114 SEPULVEDA***	***NW 1/8 - 1/4 (0.154 mi.)***	***C23***	***32***

Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-07028
Status: Case Closed
Global Id: T0603703271
Global ID: T0603703271

CITY OF CULVER CITY	***11252 WASHINGTON BLV***	***WNW 1/8 - 1/4 (0.185 mi.)***	***D27***	***41***

Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: R-10162
Status: Case Closed

Global Id: T0603704911
Global ID: T0603704911

CONOCO INC ***11198 WASHINGTON PLA*** ***NW 1/4 - 1/2 (0.285 mi.)*** ***K64*** ***129***
Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-14314
Status: Remedial action (cleanup) Underway
Global Id: T0603704152
Global ID: T0603704152

CULVER CITY UNFD SCH ***4401 ELENDA*** ***ENE 1/4 - 1/2 (0.287 mi.)*** ***L65*** ***149***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: R-15917
Status: Case Closed
Global ID: T0603705270

CULVER CITY UNIFIED ***4401 ELENDA ST*** ***ENE 1/4 - 1/2 (0.287 mi.)*** ***L66*** ***153***
Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T0603705270

76 STATION #252994 ***10638 CULVER BLVD*** ***NE 1/4 - 1/2 (0.300 mi.)*** ***67*** ***155***
Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-07101
Status: Pollution Characterization
Global Id: T0603703279
Global ID: T0603703279

CHEVRON #9-2894, 111 ***11197 WASHINGTON PL*** ***NW 1/4 - 1/2 (0.308 mi.)*** ***K68*** ***162***
Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: R-07148
Status: Case Closed
Global Id: T0603704755
Global ID: T0603704755

FORMER UNOCAL SERVIC ***11203 WASHINGTON PLA*** ***NW 1/4 - 1/2 (0.334 mi.)*** ***K70*** ***167***
Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-07106
Status: Remedial action (cleanup) Underway
Global Id: T0603703280
Global ID: T0603703280

COMMERCIAL PROPERTY 10458 CULVER BOULEVA NE 1/4 - 1/2 (0.430 mi.) 75 189
Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T10000005177

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNION OIL SERVICE ST	***11305 CULVER BOULEVA***	***SSW 1/8 - 1/4 (0.191 mi.)***	***E29***	***46***

Database: LUST, Date of Government Version: 09/10/2018

Status: Open - Remediation
Global Id: T0603705478

TOSCO - 76 STATION #	11305 CULVER BLVD	SSW 1/8 - 1/4 (0.191 mi.)	E33	57

Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: R-24976
Status: Remedial action (cleanup) Underway
Global ID: T0603705478

ARCO #9463/FORMER TH	***11304 CULVER***	***SSW 1/8 - 1/4 (0.192 mi.)***	***E36***	***62***

Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T0603705485

THRIFTY #249 (FORMER	***11304 CULVER BLVD***	***SSW 1/8 - 1/4 (0.192 mi.)***	***E38***	***71***

Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: R-25093
Status: Remedial action (cleanup) Underway
Global ID: T0603705485

TOSCO - 76 STATION #	***4436 SEPULVEDA BLVD***	***SE 1/8 - 1/4 (0.204 mi.)***	***F45***	***81***

Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-07110
Status: Remedial action (cleanup) Underway
Global Id: T0603703281
Global ID: T0603703281

ARCO #1246	***11181 WASHINGTON BLV***	***NW 1/8 - 1/4 (0.224 mi.)***	***I58***	***108***

Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-07031
Status: Remedial action (cleanup) Underway
Global Id: T0603703272
Global ID: T0603703272

CULVER CITY VOLVO	***11201 WASHINGTON BLV***	***NW 1/8 - 1/4 (0.240 mi.)***	***J61***	***120***

Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-07149
Status: Case Closed
Global Id: T0603703287
Global ID: T0603703287

PAUL'S TRANSMISSION	11526 WASHINGTON BLV	SW 1/4 - 1/2 (0.417 mi.)	M74	186

Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: I-07146
Status: Case Closed
Global Id: T0603703286
Global ID: T0603703286

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 3 CPS-SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRANSNATIONAL PROPER Database: SLIC REG 4, Date of Government Version: 11/17/2004 Database: CPS-SLIC, Date of Government Version: 09/10/2018 Facility Status: Open - Inactive Facility Status: Site Assessment Global Id: SL2049D1723	11124 WASHINGTON BLV	NNW 1/8 - 1/4 (0.212 mi.)	H53	102
FREDERICK SMITH PROP Database: CPS-SLIC, Date of Government Version: 09/10/2018 Facility Status: Completed - Case Closed Global Id: SL204CB2366	3535,3545 &3555 HAYD	E 1/4 - 1/2 (0.408 mi.)	N72	185
PRUDENTIAL REALTY GR Database: SLIC REG 4, Date of Government Version: 11/17/2004 Database: CPS-SLIC, Date of Government Version: 09/10/2018 Facility Status: Completed - Case Closed Facility Status: No further action required Global Id: SLT4301917	2500 WALNUT AVE.	E 1/4 - 1/2 (0.408 mi.)	N73	186

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LINDQUIST MOTORS INC Database: UST, Date of Government Version: 09/10/2018 Facility Id: 7150	4235 SEPULVEDA BLVD	WSW 0 - 1/8 (0.015 mi.)	A12	18
CULVER CITY FIRE STA Database: UST, Date of Government Version: 09/10/2018 Facility Id: 10162	11252 WASHINGTON BLV	WNW 1/8 - 1/4 (0.185 mi.)	D26	41

Lower Elevation	Address	Direction / Distance	Map ID	Page
VIC'S UNION 76 Database: UST, Date of Government Version: 09/10/2018 Facility Id: LACOFA0008501	11305 CULVER BLVD	SSW 1/8 - 1/4 (0.191 mi.)	E28	46
CULVER INVESTMENT CO Database: UST, Date of Government Version: 09/10/2018 Facility Id: LACOFA	11305 CULVER BLVD (U	SSW 1/8 - 1/4 (0.191 mi.)	E30	56
TOSCO/UNOCAL #30873 Database: UST, Date of Government Version: 09/10/2018	4436 SEPULVEDA BLVD	SE 1/8 - 1/4 (0.204 mi.)	F43	81

Facility Id: 24743

JASPAL INC.	11181 WASHINGTON BLV	NW 1/8 - 1/4 (0.224 mi.)	I56	105

Database: UST, Date of Government Version: 09/10/2018
Facility Id: 7031
Facility Id: LACOFA0029046

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CULVER CITY VOLVO	11201 W WASHINGTON B	NW 1/8 - 1/4 (0.240 mi.)	J62	127

Database: AST, Date of Government Version: 07/06/2016

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 14 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FOOGERTS INC	***4235 SEPULVEDA BLVD***	***WSW 0 - 1/8 (0.015 mi.)***	***A13***	***18***
Status: A				
Tank Status: A				
Comp Number: 7150				
BERNARD'S PROPERTY	***4228 SEPULVEDA BLVD***	***NW 0 - 1/8 (0.021 mi.)***	***A15***	***21***
Status: A				
Comp Number: 13839				
ALBERTSON OLDSMOBILE	***4114 S SEPULVEDA BLV***	***NW 1/8 - 1/4 (0.154 mi.)***	***C21***	***30***
Comp Number: 7028				
CITY OF CULVER CITY	***11252 WASHINGTON BLV***	***WNW 1/8 - 1/4 (0.185 mi.)***	***D27***	***41***
Status: A				
Tank Status: A				
Comp Number: 10162				
OHMEGA TECHNOLOGIES	***4031 ELENDA ST***	***N 1/8 - 1/4 (0.211 mi.)***	***G48***	***92***
Status: A				
Comp Number: 7164				

Lower Elevation	Address	Direction / Distance	Map ID	Page
PALM TREE GAS N WASH	11182 CULVER BLVD	0 - 1/8 (0.000 mi.)	A11	18

Status: A Comp Number: 7128				
UNOCAL CORP Status: A Comp Number: 8233	11305 CULVER BLVD	SSW 1/8 - 1/4 (0.191 mi.)	E32	57
THRIFTY OIL CO/C Status: A Tank Status: A Comp Number: 696	***11304 CULVER BLVD***	***SSW 1/8 - 1/4 (0.192 mi.)***	***E35***	***59***
KAYO OIL CO SS Status: A Tank Status: A Comp Number: 14314	11198 W WASHINGTON B	NW 1/8 - 1/4 (0.197 mi.)	C39	73
UNOCAL CORP SS 5836 Status: A Tank Status: A Comp Number: 7083	11305 CULVER BLVD	SW 1/8 - 1/4 (0.198 mi.)	E41	77
UNOCAL CORP SS 5407 Status: A Tank Status: A Comp Number: 7110	***4436 SEPULVEDA BLVD***	***SE 1/8 - 1/4 (0.204 mi.)***	***F42***	***78***
ARCO PRODUCTS #01246 Comp Number: 7031	***11181 WASHINGTON BLV***	***NW 1/8 - 1/4 (0.224 mi.)***	***I59***	***117***
CENTER PAINT COMPANY Status: A Comp Number: 12325	11153 WASHINGTON BLV	NNW 1/8 - 1/4 (0.239 mi.)	I60	120
CULVER CITY VOLVO Status: A Tank Status: A Comp Number: 7149	***11201 WASHINGTON BLV***	***NW 1/8 - 1/4 (0.240 mi.)***	***J63***	***128***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 13 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSON OLDSMOBILE Facility Id: 00000007919	4114 SEPULVEDA BLVD	NW 1/8 - 1/4 (0.154 mi.)	C22	32
CULVER CITY FIRE STA Facility Id: 00000005327	***11252 WASHINGTON***	***WNW 1/8 - 1/4 (0.185 mi.)***	***D25***	***39***
CITY OF CULVER CITY	***11252 WASHINGTON BLV***	***WNW 1/8 - 1/4 (0.185 mi.)***	***D27***	***41***

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNION OIL SERVICE ST	***11305 CULVER BOULEVA***	***SSW 1/8 - 1/4 (0.191 mi.)***	***E29***	***46***
SERVICE STATION 5836 Facility Id: 00000055381 Facility Id: 00000007664	11305 CULVER BLVD	SSW 1/8 - 1/4 (0.191 mi.)	E31	56
TODDS AUTOMOTIVE SER	11304 CULVER BLVD	SSW 1/8 - 1/4 (0.192 mi.)	E34	58

Facility Id: 00000051023				
THRIFTY OIL CO/C	***11304 CULVER BLVD***	***SSW 1/8 - 1/4 (0.192 mi.)***	***E35***	***59***
Facility Id: 00000006390				
ARCO PRODUCTS COMPAN	***11304 CULVER BLVD***	***SSW 1/8 - 1/4 (0.192 mi.)***	***E37***	***70***
UNION OIL SERVICE ST	4436 SEPULVEDA BLVD	SE 1/8 - 1/4 (0.204 mi.)	F44	81
Facility Id: 00000055506				
SERVICE STATION 5407	4436 SEPULVEDA BLVDS	SE 1/8 - 1/4 (0.204 mi.)	F46	89
Facility Id: 00000017244				
SOBHI F IBRAHIM	11181 WASHINGTON BLV	NW 1/8 - 1/4 (0.224 mi.)	I55	104
Facility Id: 00000026561				
SOBHI F IBRAHIM	***11181 W WASHINGTON B***	***NW 1/8 - 1/4 (0.224 mi.)***	***I57***	***106***
CULVER CITY VOLVO	***11201 WASHINGTON BLV***	***NW 1/8 - 1/4 (0.240 mi.)***	***J61***	***120***
Facility Id: 00000064414				
Facility Id: 00000034180				

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 4 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSON OLDSMOBILE	***4114 S SEPULVEDA BLV***	***NW 1/8 - 1/4 (0.154 mi.)***	***C21***	***30***
Facility Id: 19003022				
Status: I				

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL CORP SS 5407	***4436 SEPULVEDA BLVD***	***SE 1/8 - 1/4 (0.204 mi.)***	***F42***	***78***
Facility Id: 19003620				
Status: A				
ARCO PRODUCTS #01246	***11181 WASHINGTON BLV***	***NW 1/8 - 1/4 (0.224 mi.)***	***I59***	***117***
Facility Id: 19002793				
Status: I				
CULVER CITY VOLVO	***11201 WASHINGTON BLV***	***NW 1/8 - 1/4 (0.240 mi.)***	***J63***	***128***
Facility Id: 19002571				
Status: A				

Other Ascertainable Records

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 2 DRYCLEANERS sites within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
SUNSHINE CTR CLEANER Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018	11124 W WASHINGTON B	NNW 1/8 - 1/4 (0.212 mi.)	H51	101
SUNSHINE CENTER DRY Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018	11124 W WASHINGTON B	NNW 1/8 - 1/4 (0.212 mi.)	H52	101

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 13 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BERNARD'S PROPERTY Reg Id: I-13839	***4228 SEPULVEDA BLVD***	***NW 0 - 1/8 (0.021 mi.)***	***A15***	***21***
ALBERTSON BROTHER OL Reg Id: I-07028	***4114 SEPULVEDA***	***NW 1/8 - 1/4 (0.154 mi.)***	***C23***	***32***
CULVER CITY FIRE STA Reg Id: R-10162	***11252 WASHINGTON***	***WNW 1/8 - 1/4 (0.185 mi.)***	***D25***	***39***
CONOCO INC Reg Id: I-14314	***11198 WASHINGTON PLA***	***NW 1/4 - 1/2 (0.285 mi.)***	***K64***	***129***
CULVER CITY UNIFIED Reg Id: R-15917	***4401 ELENDA ST***	***ENE 1/4 - 1/2 (0.287 mi.)***	***L66***	***153***
76 STATION #252994 Reg Id: I-07101	***10638 CULVER BLVD***	***NE 1/4 - 1/2 (0.300 mi.)***	***67***	***155***
CHEVRON #9-2894, 111 Reg Id: R-07148	***11197 WASHINGTON PL***	***NW 1/4 - 1/2 (0.308 mi.)***	***K68***	***162***
FORMER UNOCAL SERVIC Reg Id: I-07106	***11203 WASHINGTON PLA***	***NW 1/4 - 1/2 (0.334 mi.)***	***K70***	***167***

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNION OIL SERVICE ST Reg Id: R-24976	***11305 CULVER BOULEVA***	***SSW 1/8 - 1/4 (0.191 mi.)***	***E29***	***46***
ARCO #9463/FORMER TH Reg Id: R-25093	***11304 CULVER***	***SSW 1/8 - 1/4 (0.192 mi.)***	***E36***	***62***
TOSCO - 76 STATION # Reg Id: I-07110	***4436 SEPULVEDA BLVD***	***SE 1/8 - 1/4 (0.204 mi.)***	***F45***	***81***
ARCO #1246 Reg Id: I-07031	***11181 WASHINGTON BLV***	***NW 1/8 - 1/4 (0.224 mi.)***	***I58***	***108***
CULVER CITY VOLVO Reg Id: I-07149	***11201 WASHINGTON BLV***	***NW 1/8 - 1/4 (0.240 mi.)***	***J61***	***120***

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 4 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AM PM BUSINESS SERVI	4149 SEPULVEDA BLVD	WNW 0 - 1/8 (0.103 mi.)	18	27

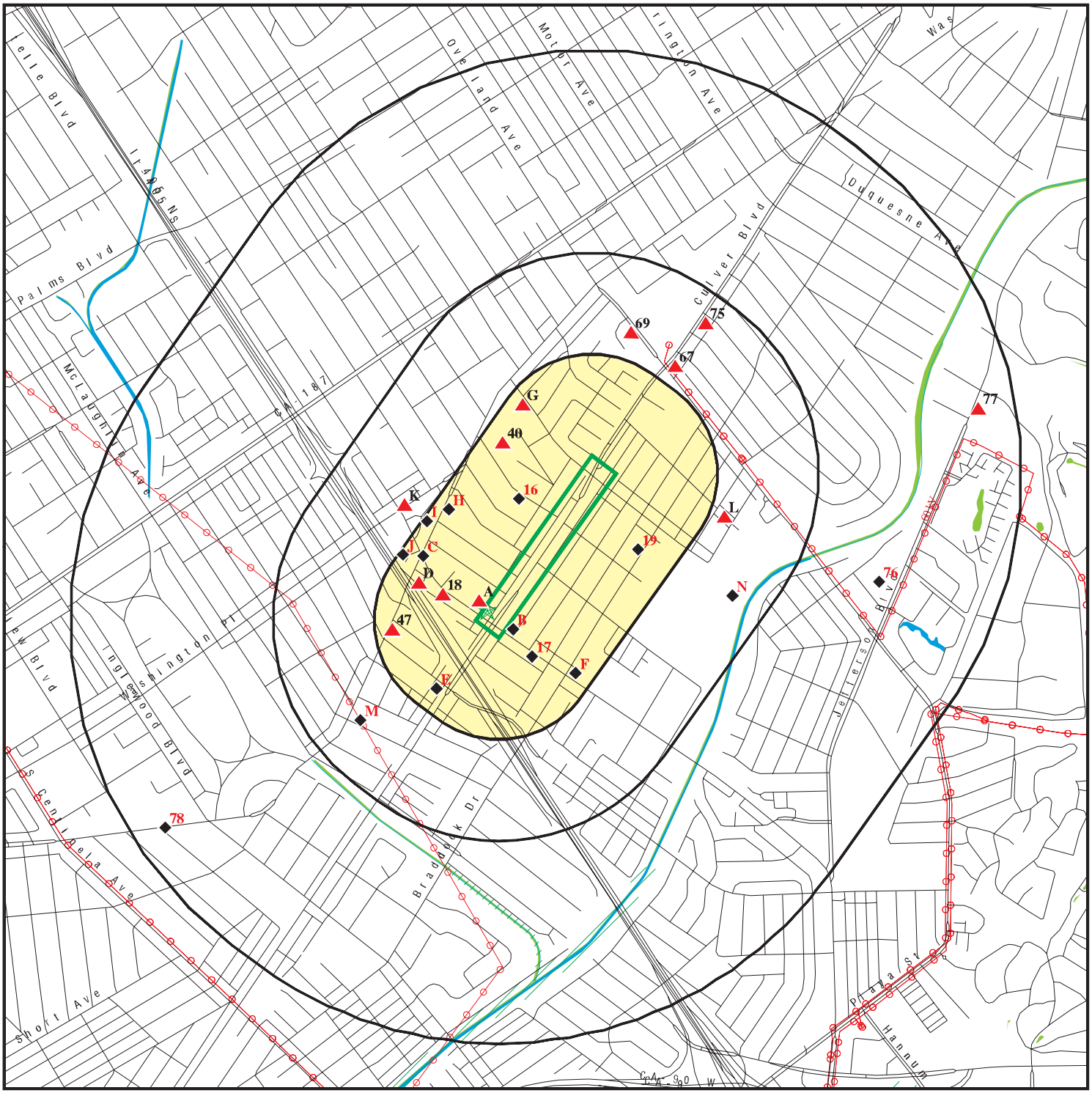
Lower Elevation	Address	Direction / Distance	Map ID	Page
PEREZ JOSE FOREIGN C	4301 SEPULVEDA BLVD	0 - 1/8 (0.000 mi.)	B9	16
PALM TREE GAS & WASH	11182 CULVER BLVD	0 - 1/8 (0.000 mi.)	A10	17
NORTH THOMAS L	4117 HURON AVE	NNE 0 - 1/8 (0.085 mi.)	16	24

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
CULVER CITY DOG PARK	ENVIROSTOR

OVERVIEW MAP - 5530785.2S



0 1/4 1/2 1 Miles

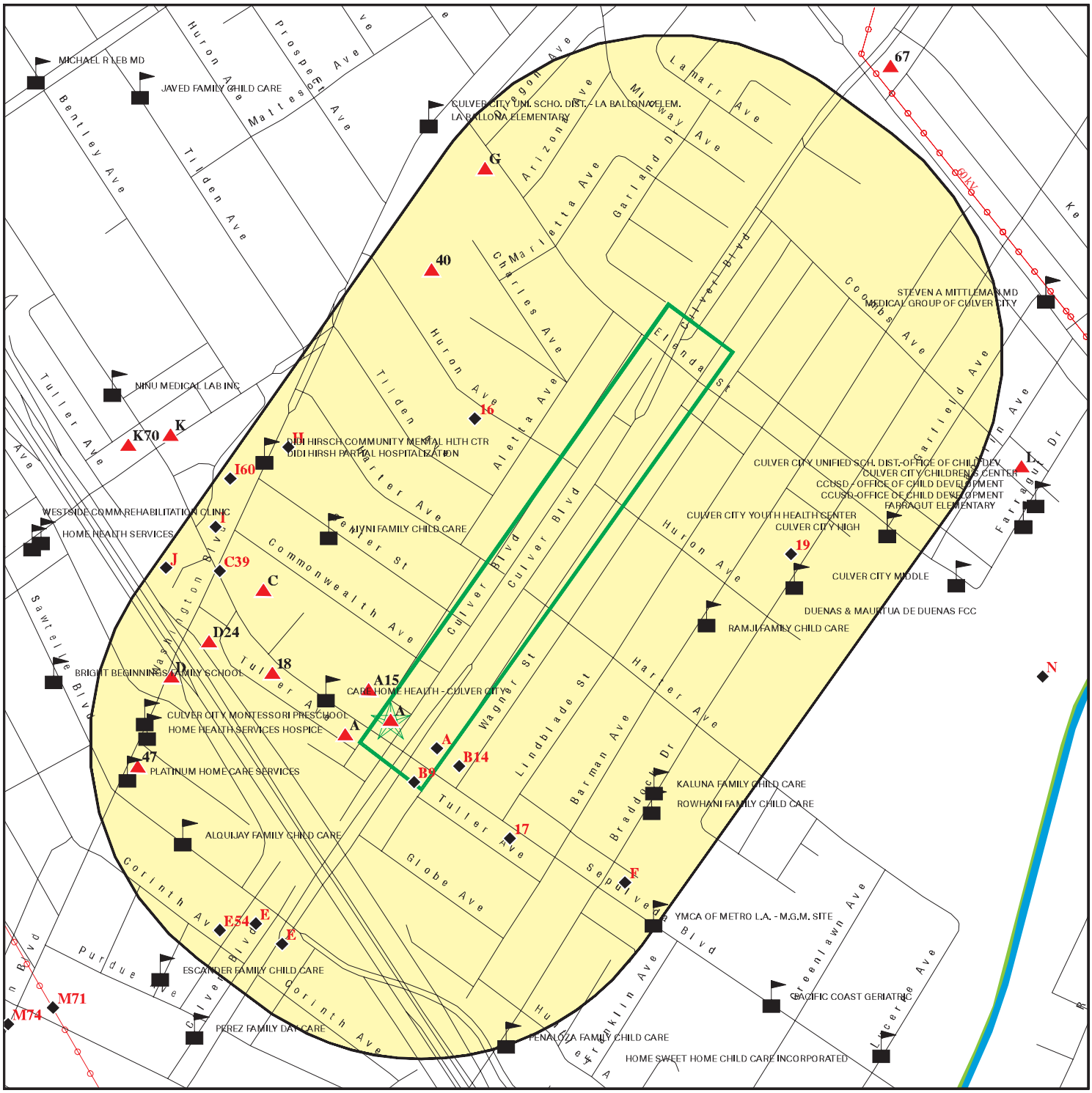
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Culver Boulevard Realignment/Urban Stormwater	CLIENT:	Tetra Tech, Inc.
ADDRESS:	4246 Sepulveda Boulevard CULVER CITY CA 90230	CONTACT:	Jim.steele
		INQUIRY #:	5530785.2s
LAT/LONG:	34.005156 / 118.410166	DATE:	January 10, 2019 2:16 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 5530785.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Culver Boulevard Realignment/Urban Stormwater	CLIENT:	Tetra Tech, Inc.
ADDRESS:	4246 Sepulveda Boulevard CULVER CITY CA 90230	CONTACT:	Jim.steele
		INQUIRY #:	5530785.2s
LAT/LONG:	34.005156 / 118.410166	DATE:	January 10, 2019 2:19 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	1	0	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	8	NR	NR	NR	10
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	1	1	3	NR	5
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500	1	1	9	8	NR	NR	19

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	1	2	NR	NR	3
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	5	NR	NR	NR	6
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		3	11	NR	NR	NR	14
HIST UST	0.250	2	0	13	NR	NR	NR	15
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	4	NR	NR	NR	4
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	2	NR	NR	NR	2
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	3	NR	NR	NR	NR	NR	3
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500	1	1	7	5	NR	NR	14
LOS ANGELES CO. HMS	TP	1	NR	NR	NR	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		4	NR	NR	NR	NR	4
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP	3	NR	NR	NR	NR	NR	3
- Totals --		12	12	63	17	3	0	107

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property | **TUNEUP MASTERS**
4246 SEPULVEDA BLVD
CULVER CITY, CA 90230

LUST | **1000224668**
HIST UST | **N/A**
HIST CORTESE
LOS ANGELES CO. HMS

Site 1 of 13 in cluster A

Actual: 54 ft.

LUST:

Lead Agency:	LOS ANGELES COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704289
Global Id:	T0603704289
Latitude:	34.0047466
Longitude:	-118.410404
Status:	Completed - Case Closed
Status Date:	08/21/1991
Case Worker:	JOA
RB Case Number:	I-15312
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

LUST:

Global Id:	T0603704289
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704289
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0603704289
Action Type:	Other
Date:	04/17/1990
Action:	Leak Discovery

Global Id:	T0603704289
Action Type:	Other
Date:	04/17/1990
Action:	Leak Stopped

Global Id:	T0603704289
Action Type:	Other
Date:	05/15/1990
Action:	Leak Reported

TUNEUP MASTERS (Continued) **1000224668**

LUST:

Global Id:	T0603704289
Status:	Completed - Case Closed
Status Date:	08/21/1991
Global Id:	T0603704289
Status:	Open - Case Begin Date
Status Date:	04/17/1990

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	I-15312
Status:	Case Closed
Substance:	Waste Oil
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Soil
Abatement Method Used at the Site:	Not reported
Global ID:	T0603704289
W Global ID:	Not reported
Staff:	UNK
Local Agency:	19000
Cross Street:	CULVER BLVD.
Enforcement Type:	Not reported
Date Leak Discovered:	4/17/1990
Date Leak First Reported:	5/15/1990
Date Leak Record Entered:	5/24/1990
Date Confirmation Began:	Not reported
Date Leak Stopped:	4/17/1990
Date Case Last Changed on Database:	12/20/1991
Date the Case was Closed:	8/21/1991
How Leak Discovered:	Tank Closure
How Leak Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Operator:	BLACKWELL, RAY
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	4664.00248067132607225022239 83
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported

TUNEUP MASTERS (Continued) **1000224668**

Organization: Not reported
Owner Contact: Not reported
Responsible Party: TUNE UP MASTERS INC.
RP Address: 2001 CORPORATE CENTER DR., NEWBURY PARK, 91320
Program: LUST
Lat/Long: 34.0047466 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: OLD CASE #052590-14

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000055949
Facility Type: Other
Other Type: TUNE-UP, LUBE-OIL CH
Contact Name: STEVE SHIELDS
Telephone: 8189995600
Owner Name: HENDLIN ENTERPRISES TUNEUP MAS
Owner Address: 23777-71 MULHOLLAND HIGHWAY
Owner City,St,Zip: CALABASAS, CA 91302
Total Tanks: 0001

Tank Num: 001
Container Num: 504-01
Year Installed: 1980
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-15312

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 014660-015312
Facility Type: Not reported
Facility Status: Removed
Area: 2M
Permit Number: Not reported
Permit Status: Not reported

A2 Target Property | **TUNE UP MASTERS SHOP #69** | **RGA LUST** | **S114707389**
4246 SEPULVEDA BLVD S | **N/A**
LOS ANGELES, CA

Site 2 of 13 in cluster A

Actual: 54 ft.

RGA LUST:

2004	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S

A3 Target Property | **TUNE UP MASTERS SHOP #69** | **RGA LUST** | **S114707390**
4246 SEPULVEDA BLVD., S. | **N/A**
CULVER CITY, CA

Site 3 of 13 in cluster A

Actual: 54 ft.

RGA LUST:

1994	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD., S.
1993	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD., S.

A4 Target Property | **MIKE KARAGOEIN** | **HAZNET** | **S112967858**
4246 SEPULVEDA BLVD | **N/A**
CULVER CITY, CA 90230

Site 4 of 13 in cluster A

Actual: 54 ft.

HAZNET:

envid:	S112967858
Year:	2008
GEPAID:	CAC002626686
Contact:	MIKE KARAGOEIN
Telephone:	5544352469
Mailing Name:	Not reported
Mailing Address:	5528 N PALM AVE STE 111
Mailing City,St,Zip:	FRESNO, CA 93704
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	2.085
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S112967858
Year:	2008
GEPAID:	CAC002626686
Contact:	MIKE KARAGOEIN
Telephone:	5544352469
Mailing Name:	Not reported
Mailing Address:	5528 N PALM AVE STE 111
Mailing City,St,Zip:	FRESNO, CA 93704
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

MIKE KARAGOEIN (Continued) **S112967858**

(H010-H129) Or (H131-H135)
Tons: 0.15
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

A5 Target Property **TUNE UP MASTERS SHOP #69** **RGA LUST** **S114707388**
4246 SEPULVEDA BLVD S **N/A**
CULVER CITY, CA

Site 5 of 13 in cluster A

Actual: 54 ft.

RGA LUST:

2012	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2011	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2010	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2009	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2008	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2007	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2006	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2005	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2003	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2002	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2001	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
2000	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
1998	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
1997	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
1996	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S
1995	TUNE UP MASTERS SHOP #69	4246 SEPULVEDA BLVD S

A6 Target Property **AUTOMOTIVE TECH INC DBA XPERT TUNE** **HIST UST** **S113075440**
4246 S SEPULVEDA BLVD **HAZNET** **N/A**
CULVER CITY, CA 90230

Site 6 of 13 in cluster A

Actual: 54 ft.

HIST UST:

File Number: 00026DAB
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026DAB.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported

AUTOMOTIVE TECH INC DBA XPERT TUNE (Continued) **S113075440**

Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HAZNET:

envid: S113075440
Year: 2000
GEPAID: CAL000138197
Contact: THOMAS M MCCUTCHEON
Telephone: 8188899123
Mailing Name: Not reported
Mailing Address: PO BOX 953755
Mailing City,St,Zip: LAKE MARY, FL 327953755
Gen County: Not reported
TSD EPA ID: CAT000613935
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: 0.06
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113075440
Year: 1999
GEPAID: CAL000138197
Contact: THOMAS MC CUTCHEON
Telephone: 8188899123
Mailing Name: Not reported
Mailing Address: PO BOX 3114
Mailing City,St,Zip: THOUSAND OAKS, CA 913593114
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: .0625
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113075440
Year: 1999
GEPAID: CAL000138197
Contact: THOMAS MC CUTCHEON
Telephone: 8188899123
Mailing Name: Not reported
Mailing Address: PO BOX 3114
Mailing City,St,Zip: THOUSAND OAKS, CA 913593114
Gen County: Not reported
TSD EPA ID: CAT000613935
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: .0667
Cat Decode: Not reported

AUTOMOTIVE TECH INC DBA XPERT TUNE (Continued) **S113075440**

Method Decode: Not reported
Facility County: Los Angeles

envid: S113075440
Year: 1998
GEPAID: CAL000138197
Contact: THOMAS MC CUTCHEON
Telephone: 8188899123
Mailing Name: Not reported
Mailing Address: PO BOX 3114
Mailing City,St,Zip: THOUSAND OAKS, CA 913593114
Gen County: Not reported
TSD EPA ID: CAD093459485
TSD County: Not reported
Waste Category: Organic liquids with metals (Alkaline solution (pH >= 12.5) with metals)
Disposal Method: Transfer Station
Tons: .1250
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113075440
Year: 1998
GEPAID: CAL000138197
Contact: THOMAS MC CUTCHEON
Telephone: 8188899123
Mailing Name: Not reported
Mailing Address: PO BOX 3114
Mailing City,St,Zip: THOUSAND OAKS, CA 913593114
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: .1167
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

A7 Target Property **TUNE UP MASTERS SHOP #69** **FINDS** **1023347347**
4246 SEPULVEDA BLVD S **N/A**
CULVER CITY, CA 90230

Site 7 of 13 in cluster A

Actual: 54 ft.

FINDS:

Registry ID: 110066433899

Environmental Interest/Information System
STATE MASTER

TUNE UP MASTERS SHOP #69 (Continued) **1023347347**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A8
Target
Property

TUNE UP MASTERS INC #69
4246 SEPULVEDA BLVD
CULVER CITY, CA 90230

HAZNET **S113104743**
N/A

Site 8 of 13 in cluster A

Actual:
54 ft.

HAZNET:

envid:	S113104743
Year:	2007
GEPAID:	CAL000206047
Contact:	JOHN LEDFORD-CONTROLLER
Telephone:	9726417215
Mailing Name:	Not reported
Mailing Address:	750 WEST 5TH STREET STE 300
Mailing City,St,Zip:	FORT WORTH, TX 761020000
Gen County:	Not reported
TSD EPA ID:	CAD099452708
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	1.82
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

B9

< 1/8
1 ft.

PEREZ JOSE FOREIGN CAR
4301 SEPULVEDA BLVD
CULVER CITY, CA 90230

EDR Hist Auto **1020766990**
N/A

Site 1 of 2 in cluster B

Relative:
Lower

Actual:
50 ft.

EDR Hist Auto

Year:	Name:	Type:
1969	IVANOVIC VELICKO	Gasoline Service Stations
1970	IVANOVIC VELICKO	Gasoline Service Stations
1971	IVANOVIC VELICKO	Gasoline Service Stations
1972	IVANOVIC VELICKO	Gasoline Service Stations
1973	IVANOVIC VELICKO	Gasoline Service Stations
1974	IVANOVIC VELICKO	Gasoline Service Stations
1975	IVANOVIC VELICKO	Gasoline Service Stations
1978	J P FOREIGN CAR SERVICE	General Automotive Repair Shops
1979	J P FOREIGN CAR SERVICE	General Automotive Repair Shops
1980	J P FOREIGN CAR SERVICE	General Automotive Repair Shops
1982	J P FOREIGN CAR SERVICE	General Automotive Repair Shops
1983	J P FOREIGN CAR SERVICE	General Automotive Repair Shops
1985	J P FOREI	General Automotive Repair Shops
1986	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1987	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1988	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1989	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops

PEREZ JOSE FOREIGN CAR (Continued) **1020766990**

1990	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1991	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1992	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1993	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1994	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1995	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1996	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1997	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1998	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
1999	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2000	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2001	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2002	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2003	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2004	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2005	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2006	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2007	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2008	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2009	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2010	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops
2011	PEREZ JOSE FOREIGN CAR	General Automotive Repair Shops

A10 **PALM TREE GAS & WASH** **EDR Hist Auto** **1020981013**
11182 CULVER BLVD **N/A**
< 1/8 **CULVER CITY, CA 90230**
1 ft.

Site 9 of 13 in cluster A

Relative: EDR Hist Auto
Lower

Actual:
49 ft.

Year:	Name:	Type:
1969	PALM TREE GAS & WASH	Carwashes
1970	PALM TREE GAS & WASH	Carwashes
1971	PALM TREE GAS & WASH	Carwashes
1972	PALM TREE GAS & WASH	Carwashes
1973	PALM TREE GAS & WASH	Carwashes
1974	PALM TREE GAS & WASH	Carwashes
1976	PALM TREE GAS & WASH	Carwashes
1977	PALM TREE GAS & WASH	Carwashes
1978	PALM TREE GAS & WASH	Carwashes
1979	PALM TREE GAS & WASH	Carwashes
1980	PALM TREE GAS & WASH	Carwashes
1982	PALM TREE GAS & WASH	Carwashes
1983	PALM TREE GAS & WASH	Carwashes
1985	PALM TREE GAS & WASH	Carwashes

A11 **PALM TREE GAS N WASH** **SWEEPS UST** **S106930452**
11182 CULVER BLVD **N/A**
< 1/8 **CULVER CITY, CA**
1 ft.

Site 10 of 13 in cluster A

Relative: **Lower**
Actual: **49 ft.**

SWEEPS UST:

Status:	Active
Comp Number:	7128
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

A12 **LINDQUIST MOTORS INC** **UST** **U003776179**
WSW **4235 SEPULVEDA BLVD** **N/A**
< 1/8 **CULVER CITY, CA 90230**
0.015 mi.
81 ft.

Site 11 of 13 in cluster A

Relative: **Higher**
Actual: **59 ft.**

UST:

Facility ID:	7150
Permitting Agency:	LOS ANGELES COUNTY
Latitude:	34.0063157
Longitude:	-118.4094271

A13 **FOOGERTS INC** **SWEEPS UST** **U002281007**
WSW **4235 SEPULVEDA BLVD** **LOS ANGELES CO. HMS** **N/A**
< 1/8 **CULVER CITY, CA 90230**
0.015 mi.
81 ft.

Site 12 of 13 in cluster A

Relative: **Higher**
Actual: **59 ft.**

SWEEPS UST:

Status:	Active
Comp Number:	7150
Number:	9
Board Of Equalization:	44-008183
Referral Date:	01-02-91
Action Date:	01-02-91
Created Date:	06-30-89
Owner Tank Id:	T1
SWRCB Tank Id:	19-000-007150-000001
Tank Status:	A
Capacity:	500
Active Date:	01-02-91
Tank Use:	OIL
STG:	W
Content:	Not reported

FOOGERTS INC (Continued) **U002281007**

Number Of Tanks: 1

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 006917-007150
Facility Type: 0
Facility Status: Removed
Area: 2M
Permit Number: 00002267T
Permit Status: Removed

Region: LA
Permit Category: I
Facility Id: 006917-I07150
Facility Type: 01
Facility Status: Closed
Area: 2M
Permit Number: 000020131
Permit Status: Closed

Region: LA
Permit Category: I
Facility Id: 006917-033884
Facility Type: 01
Facility Status: Closed
Area: 2M
Permit Number: 000323725
Permit Status: Closed

B14 **ED LITTLE AUTO SERVICE** **RCRA-SQG** **1000286796**
SE **4318 SEPULVEDA BLVD** **FINDS** **CAD982508798**
< 1/8 **CULVER CITY, CA 90230** **ECHO**
0.016 mi. **LOS ANGELES CO. HMS**
84 ft. **Site 2 of 2 in cluster B**

Relative:
Lower

Actual:
48 ft.

RCRA-SQG:
Date form received by agency: 08/30/1989
Facility name: ED LITTLE AUTO SERVICE
Facility address: 4318 SEPULVEDA BLVD
CULVER CITY, CA 90230
EPA ID: CAD982508798
Contact: ENVIRONMENTAL MANAGER
Contact address: 4318 SEPULVEDA BLVD
CULVER CITY, CA 90230
Contact country: US
Contact telephone: 213-390-7772
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

ED LITTLE AUTO SERVICE (Continued) **1000286796**

Owner/Operator Summary:

Owner/operator name:	ED LITTLE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002837039

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource

ED LITTLE AUTO SERVICE (Continued) **1000286796**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000286796
Registry ID:	110002837039
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002837039

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	I
Facility Id:	006881-I07113
Facility Type:	01
Facility Status:	Permit
Area:	2M
Permit Number:	000020096
Permit Status:	Permit

A15 **BERNARD'S PROPERTY** **LUST** **S102425201**
NW **4228 SEPULVEDA BLVD** **SWEEPS UST** **N/A**
< 1/8 **CULVER CITY, CA 92030** **HIST CORTESE**
0.021 mi.
113 ft. **Site 13 of 13 in cluster A**

Relative:
Higher

Actual:
56 ft.

LUST:

Lead Agency:	LOS ANGELES COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704109
Global Id:	T0603704109
Latitude:	34.005571
Longitude:	-118.410521
Status:	Completed - Case Closed
Status Date:	01/19/1990
Case Worker:	JOA
RB Case Number:	I-13839
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

LUST:

Global Id:	T0603704109
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE

BERNARD'S PROPERTY (Continued) **S102425201**

City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507
Global Id:	T0603704109
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0603704109
Action Type:	Other
Date:	01/19/1990
Action:	Leak Reported

LUST:

Global Id:	T0603704109
Status:	Completed - Case Closed
Status Date:	01/19/1990
Global Id:	T0603704109
Status:	Open - Case Begin Date
Status Date:	01/19/1990

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	I-13839
Status:	Case Closed
Substance:	1
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Soil
Abatement Method Used at the Site:	Not reported
Global ID:	T0603704109
W Global ID:	Not reported
Staff:	UNK
Local Agency:	19000
Cross Street:	Not reported
Enforcement Type:	Not reported
Date Leak Discovered:	Not reported
Date Leak First Reported:	1/19/1990
Date Leak Record Entered:	1/28/1990
Date Confirmation Began:	Not reported
Date Leak Stopped:	Not reported
Date Case Last Changed on Database:	2/7/1990
Date the Case was Closed:	1/19/1990
How Leak Discovered:	Not reported
How Leak Stopped:	Not reported
Cause of Leak:	Not reported

BERNARD'S PROPERTY (Continued) **S102425201**

Leak Source:	Not reported
Operator:	BERNARD, JACK
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	4526.787749205247401493381018 5
Source of Cleanup Funding:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	BLANK RP
RP Address:	4228 SEPULVEDA BOULEVARD, CULVER CITY, 92030
Program:	LUST
Lat/Long:	34.0049966 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

SWEEPS UST:

Status:	Active
Comp Number:	13839
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-13839

16 NNE < 1/8 0.085 mi. 450 ft. | **NORTH THOMAS L**
4117 HURON AVE
CULVER CITY, CA 90232 | **EDR Hist Auto** | **1021907602**
N/A

Relative: Lower

Actual: 52 ft.

EDR Hist Auto

Year:	Name:	Type:
1989	NORTH THOMAS L	Gasoline Service Stations
1990	NORTH THOMAS L	Gasoline Service Stations
1991	NORTH THOMAS L	Gasoline Service Stations
1992	NORTH THOMAS L	Gasoline Service Stations
1993	NORTH THOMAS L	Gasoline Service Stations

---

17 SE < 1/8 0.093 mi. 491 ft. | **TRADER JIMS CAMERA & VIDEO**
4349 SEPULVEDA BLVD
CULVER CITY, CA 90230 | **RCRA-SQG**
FINDS
ECHO
HAZNET | **1000187962**
CAD982501041

Relative: Lower

Actual: 43 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	TRADER JIMS CAMERA & VIDEO
Facility address:	4349 SEPULVEDA BLVD CULVER CITY, CA 90230
EPA ID:	CAD982501041
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	REISMAN JIM
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported

TRADER JIMS CAMERA & VIDEO (Continued) **1000187962**

Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/03/1990
Site name: TRADER JIMS CAMERA & VIDEO
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002833890

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

TRADER JIMS CAMERA & VIDEO (Continued) **1000187962**

Envid:	1000187962
Registry ID:	110002833890
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002833890

HAZNET:

envid:	1000187962
Year:	2004
GEPAID:	CAD982501041
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	4349 SEPULVEDA BLVD
Mailing City,St,Zip:	CULVER CITY, CA 902304715
Gen County:	Not reported
TSD EPA ID:	CAD108040858
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	0.45
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000187962
Year:	2004
GEPAID:	CAD982501041
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	4349 SEPULVEDA BLVD
Mailing City,St,Zip:	CULVER CITY, CA 902304715
Gen County:	Not reported
TSD EPA ID:	CAD108040858
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Not reported
Tons:	0.89
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000187962
Year:	2003
GEPAID:	CAD982501041
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	4349 SEPULVEDA BLVD
Mailing City,St,Zip:	CULVER CITY, CA 902304715
Gen County:	Not reported
TSD EPA ID:	CAD108040858
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	1.75
Cat Decode:	Not reported
Method Decode:	Not reported

TRADER JIMS CAMERA & VIDEO (Continued) **1000187962**

Facility County:	Los Angeles
envid:	1000187962
Year:	2002
GEPAID:	CAD982501041
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	4349 SEPULVEDA BLVD
Mailing City,St,Zip:	CULVER CITY, CA 902304715
Gen County:	Not reported
TSD EPA ID:	CAD108040858
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	1.61
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

18
WNW
< 1/8
0.103 mi.
546 ft.

AM PM BUSINESS SERVICE CENTERS
4149 SEPULVEDA BLVD
CULVER CITY, CA 90230

EDR Hist Auto **1020651917**
N/A

Relative:
Higher

Actual:
60 ft.

EDR Hist Auto

Year:	Name:	Type:
1992	AM PM BUSINESS SERVICE CENTERS	Gasoline Service Stations
1994	AM PM BUSINESS SERVICE CENTERS	Gasoline Service Stations

---

19
ENE
1/8-1/4
0.153 mi.
806 ft.

ELIZABETH COOMBS
10935 BRADDOCK DR
CULVER CITY, CA 90230

RCRA-SQG **1009216689**
HAZNET **CAR000171066**

Relative:
Lower

Actual:
51 ft.

RCRA-SQG:

Date form received by agency:	02/01/2006
Facility name:	ELIZABETH COOMBS
Facility address:	10935 BRADDOCK DR CULVER CITY, CA 90230
EPA ID:	CAR000171066
Contact:	MARK TORKELSON
Contact address:	19441 BUSINESS CTR DR NO 105 NORTHRIDGE, CA 91324
Contact country:	US
Contact telephone:	818-700-8002
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

ELIZABETH COOMBS (Continued) **1009216689**

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ELIZABETH COOMBS
Owner/operator address:	10935 BRADDOCK DR
	CULVER CITY, CA 90230
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2000
Owner/Op end date:	Not reported

Owner/operator name:	ELIZABETH COOMBS
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/2000
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

HAZNET:

envid:	1009216689
Year:	2006
GEPAID:	CAR000171066
Contact:	MARK TORKELSON
Telephone:	8187008002

ELIZABETH COOMBS (Continued) **1009216689**

Mailing Name:	Not reported
Mailing Address:	10935 BRADDOCK DR
Mailing City,St,Zip:	CULVER CITY, CA 902304210
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Disposal, Other
Tons:	8.42
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

C20 **ALBERTSON OLDSMOBILE CHEVROLET GEO** **RCRA-SQG** **1000985203**
NW **4114 SEPULVEDA BLVD** **FINDS** **CA0001019660**
1/8-1/4 **CULVER CITY, CA 90230** **ECHO**
0.154 mi.
815 ft. **Site 1 of 5 in cluster C**

Relative:
Higher

Actual:
55 ft.

RCRA-SQG:

Date form received by agency:	02/01/1995
Facility name:	ALBERTSON OLDSMOBILE CHEVROLET GEO
Facility address:	4114 SEPULVEDA BLVD CULVER CITY, CA 90230
EPA ID:	CA0001019660
Mailing address:	SEPULVEDA BLVD CULVER CITY, CA 90230
Contact:	BRUCE ALBERTSON
Contact address:	4114 SEPULVEDA BLVD CULVER CITY, CA 90230
Contact country:	US
Contact telephone:	310-398-5721
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	BRUCE ALBERTSON
Owner/operator address:	4114 SEPULVEDA BLVD CULVER CITY, CA 90230
Owner/operator country:	Not reported
Owner/operator telephone:	310-398-5721
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

ALBERTSON OLDSMOBILE CHEVROLET GEO (Continued) **1000985203**

Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002623787

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000985203
Registry ID:	110002623787
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002623787

C21 **ALBERTSON OLDSMOBILE** **SWEEPS UST** **S101617659**
NW **4114 S SEPULVEDA BLVD** **CA FID UST** **N/A**
1/8-1/4 **CULVER CITY, CA 90231** **LOS ANGELES CO. HMS**
0.154 mi.
815 ft. **Site 2 of 5 in cluster C**

Relative: Higher

Actual: 55 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	7028
Number:	Not reported
Board Of Equalization:	44-008171
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported

ALBERTSON OLDSMOBILE (Continued) **S101617659**

SWRCB Tank Id:	19-000-007028-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	2

Status:	Not reported
Comp Number:	7028
Number:	Not reported
Board Of Equalization:	44-008171
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-007028-000002
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	19003022
Regulated By:	UTNKI
Regulated ID:	CAC000534
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2138707275
Mail To:	Not reported
Mailing Address:	4114 S SEPULVEDA BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CULVER CITY 90231
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	I
Facility Id:	006798-050870
Facility Type:	01
Facility Status:	Closed
Area:	2M
Permit Number:	000578361
Permit Status:	Closed

C22 NW 1/8-1/4 0.154 mi. 815 ft. | **ALBERTSON OLDSMOBILE 4114 SEPULVEDA BLVD CULVER CITY, CA 90230** | **HIST UST** | **U001562810 N/A**

Site 3 of 5 in cluster C

Relative: Higher
Actual: 55 ft.

HIST UST:

File Number:	00026269
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026269.pdf
Region:	STATE
Facility ID:	00000007919
Facility Type:	Not reported
Other Type:	CAR DEALER
Contact Name:	BRUCE W. ALBERTSON
Telephone:	2133985721
Owner Name:	ALBERTSON OLDSMOBILE
Owner Address:	4114 SEPULVEDA BLVD
Owner City,St,Zip:	CULVER CITY, CA 90230
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1948
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

C23 NW 1/8-1/4 0.154 mi. 815 ft. | **ALBERTSON BROTHER OLDSMOBILE 4114 SEPULVEDA CULVER CITY, CA 90231** | **LUST ENF HIST CORTESE CIWQS** | **S101296054 N/A**

Site 4 of 5 in cluster C

Relative: Higher
Actual: 55 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703271
Global Id:	T0603703271
Latitude:	34.006866
Longitude:	-118.4127924
Status:	Completed - Case Closed
Status Date:	06/06/2002
Case Worker:	WXT
RB Case Number:	I-07028
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Well used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603703271
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY

ALBERTSON BROTHER OLDSMOBILE (Continued) **S101296054**

Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603703271
Contact Type: Regional Board Caseworker
Contact Name: WEIXING TONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: wtong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603703271
Action Type: ENFORCEMENT
Date: 06/05/1997
Action: 13267 Requirement

Global Id: T0603703271
Action Type: ENFORCEMENT
Date: 06/06/2002
Action: Closure/No Further Action Letter

Global Id: T0603703271
Action Type: Other
Date: 12/20/1990
Action: Leak Discovery

Global Id: T0603703271
Action Type: Other
Date: 12/20/1990
Action: Leak Stopped

Global Id: T0603703271
Action Type: Other
Date: 01/24/1991
Action: Leak Reported

LUST:
Global Id: T0603703271
Status: Completed - Case Closed
Status Date: 06/06/2002

Global Id: T0603703271
Status: Open - Case Begin Date
Status Date: 12/20/1990

Global Id: T0603703271
Status: Open - Site Assessment
Status Date: 01/20/1992

Global Id: T0603703271
Status: Open - Site Assessment
Status Date: 03/03/1992

ALBERTSON BROTHER OLDSMOBILE (Continued) **S101296054**

Global Id: T0603703271
Status: Open - Site Assessment
Status Date: 11/11/1992

Global Id: T0603703271
Status: Open - Verification Monitoring
Status Date: 01/24/1991

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-07028
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Specific tank leak that has contaminated a specific well used for drinking water
Abatement Method Used at the Site: VE
Global ID: T0603703271
W Global ID: Not reported
Staff: WXT
Local Agency: 19000
Cross Street: WASHINGTON BLVD
Enforcement Type: CLOS
Date Leak Discovered: 12/20/1990
Date Leak First Reported: 1/24/1991
Date Leak Record Entered: 2/8/1991
Date Confirmation Began: Not reported
Date Leak Stopped: 12/20/1990
Date Case Last Changed on Database: 7/11/2002
Date the Case was Closed: 6/6/2002
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: ALBERTSON, BRUCE
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 3668.0682550885288986560296618
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: 1/20/1992
Preliminary Site Assessment Began: 3/3/1992
Pollution Characterization Began: 11/11/1992
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: 1/24/1991
Enforcement Action Date: Not reported
Historical Max MTBE Date: 1/29/2002
Hist Max MTBE Conc in Groundwater: .5
Hist Max MTBE Conc in Soil: .03
Significant Interim Remedial Action Taken: Yes
GW Qualifier: <
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported

ALBERTSON BROTHER OLDSMOBILE (Continued) **S101296054**

Responsible Party:	STEVE COLLINS
RP Address:	4114 S. SEPULVEDA BLVD.
Program:	LUST
Lat/Long:	34.0067725 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	5/12/00 QTR GW MON RPT; 7/14/00 QTRLY MON RPT; 10/18/00 QTR GW MON RPT 2000; 01/12/01 QTRLY MON RPT 2000; 3/27/1 QTRLY MON RPT 1ST

ENF:

Region:	4
Facility Id:	207287
Agency Name:	Albertson Brother Oldsmobile
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	I-07028
Reg Measure Id:	167285
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported

ALBERTSON BROTHER OLDSMOBILE (Continued) **S101296054**

Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	236143
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	04/12/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	04/12/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - I-07028
Description:	Notice of Violation sent 4/12/01 for overdue site historic data report.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-07028

CIWQS:

Agency:	Overland Partners Sepulveda, LLC
Agency Address:	3851 Overland Ave Suite B - 2nd Floor, Culver City, CA 90232
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported

ALBERTSON BROTHER OLDSMOBILE (Continued) **S101296054**

Region:	4
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	4 19C362819
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	01/17/2012
Termination Date:	04/19/2013
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.0069
Longitude:	-118.41222

D24 **UNITED AXLE REBUILDERS INC** **RCRA-SQG** **1004676016**
WNW **11218 W WASHINGTON BLVD** **FINDS** **CAR000079905**
1/8-1/4 **CULVER CITY, CA 90230** **ECHO**
0.168 mi.
889 ft. **Site 1 of 4 in cluster D**

Relative:
Higher

Actual:
61 ft.

RCRA-SQG:

Date form received by agency:	08/04/2000
Facility name:	UNITED AXLE REBUILDERS INC
Facility address:	11218 W WASHINGTON BLVD CULVER CITY, CA 90230
EPA ID:	CAR000079905
Contact:	FRANCISCO MORALES
Contact address:	11218 W WASHINGTON BLVD CULVER CITY, CA 90230
Contact country:	US
Contact telephone:	310-398-6691
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	FRANCISCO MORALES
Owner/operator address:	3158 W 152ND ST GARDENA, CA 90249
Owner/operator country:	Not reported
Owner/operator telephone:	310-676-7799
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner

UNITED AXLE REBUILDERS INC (Continued) **1004676016**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Historical Generators:
Date form received by agency: 08/04/2000
Site name: UNITED AXLE REBUILDERS INC
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002941620

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004676016
Registry ID: 110002941620
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002941620

D25 WNW 1/8-1/4 0.185 mi. 976 ft. | **CULVER CITY FIRE STATION #2**
11252 WASHINGTON
CULVER CITY, CA 90230

Site 2 of 4 in cluster D

HIST UST | **U001562822**
ENF | **N/A**
HIST CORTESE

Relative: Higher

Actual: 61 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000005327
Facility Type:	Other
Other Type:	Not reported
Contact Name:	FIRE CHIEF GEORGE SWEENY
Telephone:	2138391146
Owner Name:	CITY OF CULVER CITY
Owner Address:	9770 CULVER BOULEVARD
Owner City,St,Zip:	CULVER CITY, CA 90230
Total Tanks:	0002
Tank Num:	001
Container Num:	STA22000
Year Installed:	1981
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1-1/2
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	STA24000
Year Installed:	1981
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1-1/2
Leak Detection:	Stock Inventor

ENF:

Region:	4
Facility Id:	216332
Agency Name:	Culver City DPW
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Municipal
# Of Agencies:	1
Place Latitude:	34.00562
Place Longitude:	-118.413865
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported

CULVER CITY FIRE STATION #2 (Continued) **U001562822**

NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	R-10162
Reg Measure Id:	167288
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	236203
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	04/12/2001
Adoption/Issuance Date:	04/12/2001
Achieve Date:	Not reported
Termination Date:	04/12/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV sent 4/12/01for overdue site history report.
Description:	Notice of Violation sent 4/12/01for overdue site history report.

CULVER CITY FIRE STATION #2 (Continued) **U001562822**

Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-10162

D26 **CULVER CITY FIRE STATION #2** **UST** **U003939433**
WNW **11252 WASHINGTON BLVD** **N/A**
1/8-1/4 **CULVER CITY, CA 90230**
0.185 mi.
976 ft. **Site 3 of 4 in cluster D**

Relative:
Higher

Actual:
61 ft.

UST:

Facility ID:	10162
Permitting Agency:	LOS ANGELES COUNTY
Latitude:	34.0065325
Longitude:	-118.4124287

D27 **CITY OF CULVER CITY FIRE STA 2** **LUST** **S106175083**
WNW **11252 WASHINGTON BLVD** **SWEEPS UST** **N/A**
1/8-1/4 **CULVER CITY, CA 90232** **HIST UST**
0.185 mi. **LOS ANGELES CO. HMS**
976 ft. **Site 4 of 4 in cluster D**

Relative:
Higher

Actual:
61 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704911
Global Id:	T0603704911
Latitude:	34.0056886
Longitude:	-118.4136471
Status:	Completed - Case Closed
Status Date:	02/02/2004
Case Worker:	JH
RB Case Number:	R-10162
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Well used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603704911
Contact Type:	Regional Board Caseworker

CITY OF CULVER CITY FIRE STA 2 (Continued) **S106175083**

Contact Name: JAY HUANG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 WEST 4TH STREET, SUITE 200
City: LOS ANGELES
Email: jhuang@waterboards.ca.gov
Phone Number: 2135766711

Global Id: T0603704911
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

LUST:

Global Id: T0603704911
Action Type: ENFORCEMENT
Date: 01/01/2002
Action: 13267 Requirement

Global Id: T0603704911
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704911
Action Type: ENFORCEMENT
Date: 11/27/2002
Action: Staff Letter

Global Id: T0603704911
Action Type: ENFORCEMENT
Date: 01/21/2004
Action: Site Visit / Inspection / Sampling

Global Id: T0603704911
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603704911
Action Type: RESPONSE
Date: 04/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603704911
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603704911
Action Type: Other
Date: 07/08/1997
Action: Leak Reported

CITY OF CULVER CITY FIRE STA 2 (Continued) **S106175083**

Global Id: T0603704911
Action Type: ENFORCEMENT
Date: 07/23/2002
Action: 13267 Requirement

Global Id: T0603704911
Action Type: ENFORCEMENT
Date: 02/02/2004
Action: Closure/No Further Action Letter

LUST:
Global Id: T0603704911
Status: Completed - Case Closed
Status Date: 02/02/2004

Global Id: T0603704911
Status: Open - Case Begin Date
Status Date: 06/19/1997

Global Id: T0603704911
Status: Open - Site Assessment
Status Date: 06/19/1997

Global Id: T0603704911
Status: Open - Site Assessment
Status Date: 07/25/1997

Global Id: T0603704911
Status: Open - Site Assessment
Status Date: 09/18/1997

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-10162
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Specific tank leak that has contaminated a specific well used for drinking water
Abatement Method Used at the Site: Not reported
Global ID: T0603704911
W Global ID: Not reported
Staff: JH
Local Agency: 19000
Cross Street: GLOBE AVE
Enforcement Type: CLOS
Date Leak Discovered: Not reported
Date Leak First Reported: 7/8/1997
Date Leak Record Entered: 7/8/1997
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 7/8/2002
Date the Case was Closed: 2/2/2004

CITY OF CULVER CITY FIRE STA 2 (Continued) **S106175083**

How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 3973.0802611145616198339632 53
Source of Cleanup Funding: Not reported
Preliminary Site Assessment Workplan Submitted: 6/19/1997
Preliminary Site Assessment Began: 7/25/1997
Pollution Characterization Began: 9/18/1997
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: 10/15/2002
Hist Max MTBE Conc in Groundwater: 0
Hist Max MTBE Conc in Soil: .018
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: ND
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: PAM KEYS
RP Address: 9770 CULVER BLVD.
Program: LUST
Lat/Long: 34.0056886 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: 03/29/99 - 1ST QTR GW MON RPT 1999; 7/14/99 2ND QTR GW MON RPT 1999; 10/18/99 3RD QTR GW MON RPT 1999; 4/15/01 1ST QTR GW MON RPT 2001

SWEEPS UST:
Status: Active
Comp Number: 10162
Number: 9
Board Of Equalization: 44-008733
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-010162-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 2

Status: Active
Comp Number: 10162

CITY OF CULVER CITY FIRE STA 2 (Continued) **S106175083**

Number: 9
Board Of Equalization: 44-008733
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-010162-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 00026FD5
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026FD5.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 010280-010162
Facility Type: 0
Facility Status: Removed
Area: 2M
Permit Number: 00005257T
Permit Status: Removed

E28 SSW 1/8-1/4 0.191 mi. 1011 ft. | **VIC'S UNION 76** | **UST** | **U004265265**
11305 CULVER BLVD | **N/A**
LOS ANGELES, CA 90066

Site 1 of 13 in cluster E

Relative: Lower
Actual: 45 ft.

UST:

Facility ID:	LACOFA0008501
Permitting Agency:	Los Angeles County Fire Department
Latitude:	34.00243
Longitude:	-118.41237

E29 SSW 1/8-1/4 0.191 mi. 1011 ft. | **UNION OIL SERVICE STATION 5836** | **LUST** | **S102440216**
11305 CULVER BOULEVARD | **HIST UST** | **N/A**
LOS ANGELES, CA 90066 | **HIST CORTESE**

Site 2 of 13 in cluster E

Relative: Lower
Actual: 45 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603705478
Global Id:	T0603705478
Latitude:	34.002476776899
Longitude:	-118.412269949913
Status:	Open - Remediation
Status Date:	02/14/2006
Case Worker:	DMB
RB Case Number:	R-24976
Local Agency:	LOS ANGELES COUNTY
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603705478
Contact Type:	Regional Board Caseworker
Contact Name:	DAVID M. BJOSTAD
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4th Street, Suite 200
City:	Los Angeles
Email:	dave.bjostad@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603705478
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

LUST:

Global Id:	T0603705478
Action Type:	RESPONSE
Date:	07/15/2016
Action:	Monitoring Report - Semi-Annually

UNION OIL SERVICE STATION 5836 (Continued) **S102440216**

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2011
Action: Remedial Progress Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2011
Action: Remedial Progress Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: ENFORCEMENT
Date: 02/26/2003
Action: Staff Letter

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: ENFORCEMENT
Date: 06/30/2009
Action: Waste Discharge Requirements

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: Other
Date: 10/24/1994
Action: Leak Discovery

Global Id: T0603705478
Action Type: RESPONSE

UNION OIL SERVICE STATION 5836 (Continued) **S102440216**

Date: 01/15/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603705478
Action Type: RESPONSE
Date: 09/09/2014
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: ENFORCEMENT
Date: 11/05/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 02/14/2012
Action: Soil and Water Investigation Workplan

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2012
Action: Monitoring Report - Semi-Annually

UNION OIL SERVICE STATION 5836 (Continued) **S102440216**

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2002
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603705478
Action Type: ENFORCEMENT
Date: 07/01/2002
Action: Staff Letter

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2018
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 09/08/2009
Action: Corrective Action Plan / Remedial Action Plan - Addendum

Global Id: T0603705478
Action Type: ENFORCEMENT
Date: 07/25/2002
Action: Staff Letter

Global Id: T0603705478
Action Type: REMEDIATION
Date: 01/10/1998
Action: Excavation

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE

UNION OIL SERVICE STATION 5836 (Continued) **S102440216**

Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 06/21/2017
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 08/16/2002
Action: Soil and Water Investigation Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: ENFORCEMENT
Date: 05/02/2013
Action: Staff Letter

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2003
Action: CAP/RAP - Final Remediation / Design Plan

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: Other
Date: 10/24/1994
Action: Leak Reported

UNION OIL SERVICE STATION 5836 (Continued) **S102440216**

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 03/23/2010
Action: Well Installation Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603705478
Action Type: REMEDIATION
Date: 12/06/2005
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0603705478
Action Type: REMEDIATION
Date: 02/14/2006
Action: Soil Vapor Extraction (SVE)

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 08/26/2008
Action: Soil and Water Investigation Workplan

Global Id: T0603705478
Action Type: RESPONSE

UNION OIL SERVICE STATION 5836 (Continued) **S102440216**

Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 02/04/2013
Action: Request for Closure - Regulator Responded

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: REMEDIATION
Date: 06/23/2009
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2010
Action: Remedial Progress Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2018
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: ENFORCEMENT
Date: 11/19/2009
Action: Staff Letter

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2010
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

UNION OIL SERVICE STATION 5836 (Continued) **S102440216**

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2011
Action: Remedial Progress Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2008
Action: Remedial Progress Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/17/2002
Action: CAP/RAP - Feasibility Study Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 06/02/2003
Action: CAP/RAP - Other Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: ENFORCEMENT
Date: 06/16/1999
Action: Staff Letter

Global Id: T0603705478
Action Type: RESPONSE

UNION OIL SERVICE STATION 5836 (Continued) **S102440216**

Date: 01/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603705478
Action Type: RESPONSE
Date: 06/10/2005
Action: Well Installation Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603705478
Action Type: RESPONSE
Date: 04/15/2010
Action: Remedial Progress Report

Global Id: T0603705478
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

LUST:
Global Id: T0603705478
Status: Open - Case Begin Date
Status Date: 10/24/1994

Global Id: T0603705478
Status: Open - Remediation
Status Date: 07/25/2002

Global Id: T0603705478
Status: Open - Remediation
Status Date: 05/08/2003

Global Id: T0603705478
Status: Open - Remediation
Status Date: 12/06/2005

Global Id: T0603705478
Status: Open - Remediation
Status Date: 02/14/2006

Global Id: T0603705478
Status: Open - Site Assessment
Status Date: 08/10/1999

UNION OIL SERVICE STATION 5836 (Continued) **S102440216**

Global Id: T0603705478
Status: Open - Site Assessment
Status Date: 08/25/1999

Global Id: T0603705478
Status: Open - Site Assessment
Status Date: 11/30/1999

Global Id: T0603705478
Status: Open - Site Assessment
Status Date: 02/20/2003

Global Id: T0603705478
Status: Open - Verification Monitoring
Status Date: 10/24/1994

HIST UST:
File Number: 0002818C
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002818C.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-24976

E30 SSW 1/8-1/4 0.191 mi. 1011 ft. | **CULVER INVESTMENT CORPORATION (CIC)** | **UST** | **U004265830**
11305 CULVER BLVD (UNIT A) | **N/A**
LOS ANGELES, CA 90066

Site 3 of 13 in cluster E

Relative: Lower
Actual: 45 ft.

UST:

Facility ID:	LACOFA
Permitting Agency:	Los Angeles County Fire Department
Latitude:	34.00243
Longitude:	-118.41237

E31 SSW 1/8-1/4 0.191 mi. 1011 ft. | **SERVICE STATION 5836** | **HIST UST** | **U001562503**
11305 CULVER BLVD | **N/A**
LOS ANGELES, CA 90066

Site 4 of 13 in cluster E

Relative: Lower
Actual: 45 ft.

HIST UST:

File Number:	00028FFF
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028FFF.pdf
Region:	STATE
Facility ID:	00000055381
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	GEORGE H. ISSA
Telephone:	2133975545
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0001
Tank Num:	001
Container Num:	5836-00
Year Installed:	Not reported
Tank Capacity:	00000180
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	001
Container Num:	5836-4
Year Installed:	1967
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	5836-2
Year Installed:	1967
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	003

SERVICE STATION 5836 (Continued) **U001562503**

Container Num:	5836-1
Year Installed:	1967
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test

Click here for Geo Tracker PDF:

E32 SSW 1/8-1/4 0.191 mi. 1011 ft. **UNOCAL CORP** **SWEEPS UST** **S103891156**
11305 CULVER BLVD **N/A**
LOS ANGELES, CA 90000

Site 5 of 13 in cluster E

Relative: Lower
Actual: 45 ft.

SWEEPS UST:

Status:	Active
Comp Number:	8233
Number:	1
Board Of Equalization:	Not reported
Referral Date:	08-31-92
Action Date:	08-31-92
Created Date:	08-31-92
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

E33 SSW 1/8-1/4 0.191 mi. 1011 ft. **TOSCO - 76 STATION #5836** **LUST** **S105693833**
11305 CULVER BLVD **N/A**
LOS ANGELES, CA 90066

Site 6 of 13 in cluster E

Relative: Lower
Actual: 45 ft.

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	R-24976
Status:	Remedial action (cleanup) Underway
Substance:	Gasoline
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Groundwater
Abatement Method Used at the Site:	Not reported
Global ID:	T0603705478
W Global ID:	Not reported
Staff:	TCS
Local Agency:	19000
Cross Street:	SAWTELLE

TOSCO - 76 STATION #5836 (Continued) **S105693833**

Enforcement Type:	SEL	
Date Leak Discovered:	10/24/1994	
Date Leak First Reported:		10/24/1994
Date Leak Record Entered:	4/11/1996	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		8/15/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	GEORGE H. ISSA	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		5130.342597983134140031468016 1
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		8/10/1999
Preliminary Site Assessment Began:		8/25/1999
Pollution Characterization Began:		2/20/2003
Remediation Plan Submitted:		7/25/2002
Remedial Action Underway:		5/8/2003
Post Remedial Action Monitoring Began:		10/24/1994
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		9/20/2002
Hist Max MTBE Conc in Groundwater:		100000
Hist Max MTBE Conc in Soil:		58000
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	=	
Soil Qualifier:	=	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	TOSCO MARKETING CO	
RP Address:	3525 HYLAND AVE., COSTA MESA, CA 92626	
Program:	LUST	
Lat/Long:	34.0026487 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	92 SUPER TANK FAILED ULLAGE PORTION OF INTEGRITY UNOCAL. OLD CASE #R-07083; 7/15/00 2ND QTR GW MON RPT 2000; 7/28/00 SUPPLEM. GW INVESTIGATION RPT; 10/15/00 3RD QTR GW MON RPT 2000; 1/15/01 4TH QTR GW MON RPT	

E34 **TODDS AUTOMOTIVE SERVICE INC** **HIST UST** **U001562501**
SSW **11304 CULVER BLVD** **N/A**
1/8-1/4 **LOS ANGELES, CA 90066**
0.192 mi.
1014 ft. **Site 7 of 13 in cluster E**

Relative: HIST UST:
Lower

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000051023

Actual:
41 ft.

TODDS AUTOMOTIVE SERVICE INC (Continued) **U001562501**

Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	DEALER
Telephone:	2133911770
Owner Name:	THRIFTY OIL CO.
Owner Address:	10000 LAKEWOOD BLVD.
Owner City,St,Zip:	DOWNEY, CA 90240
Total Tanks:	0004

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000240
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

E35 **THRIFTY OIL CO/C** **SWEEPS UST** **U001562500**
SSW **11304 CULVER BLVD** **HIST UST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90066**
0.192 mi.
1014 ft. **Site 8 of 13 in cluster E**

Relative:
Lower

Actual:
41 ft.

SWEEPS UST:

Status:	Active
Comp Number:	696
Number:	9
Board Of Equalization:	44-003292
Referral Date:	06-07-93
Action Date:	03-15-94

THRIFTY OIL CO/C (Continued) **U001562500**

Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000696-000001
Tank Status:	A
Capacity:	9926
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	5

Status:	Active
Comp Number:	696
Number:	9
Board Of Equalization:	44-003292
Referral Date:	06-07-93
Action Date:	03-15-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000696-000002
Tank Status:	A
Capacity:	8136
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	696
Number:	9
Board Of Equalization:	44-003292
Referral Date:	06-07-93
Action Date:	03-15-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000696-000003
Tank Status:	A
Capacity:	8136
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	696
Number:	9
Board Of Equalization:	44-003292
Referral Date:	06-07-93
Action Date:	03-15-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000696-000004
Tank Status:	A
Capacity:	550
Active Date:	04-20-88

THRIFTY OIL CO/C (Continued) **U001562500**

Tank Use:	OIL
STG:	W
Content:	WASTE OIL
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	696
Number:	9
Board Of Equalization:	44-003292
Referral Date:	06-07-93
Action Date:	03-15-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000696-000005
Tank Status:	A
Capacity:	Not reported
Active Date:	04-20-88
Tank Use:	CHEMICAL
STG:	P
Content:	UNKNOWN
Number Of Tanks:	Not reported

HIST UST:

File Number:	00028D1E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028D1E.pdf
Region:	STATE
Facility ID:	00000006390
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	2139239876
Owner Name:	THRIFTY OIL CO.
Owner Address:	10000 LAKEWOOD BLVD.
Owner City,St,Zip:	DOWNEY, CA 90240
Total Tanks:	0005

Tank Num:	001
Container Num:	249-1
Year Installed:	Not reported
Tank Capacity:	00009926
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	002
Container Num:	249-2
Year Installed:	Not reported
Tank Capacity:	00008136
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	249-3
Year Installed:	Not reported

THRIFTY OIL CO/C (Continued) **U001562500**

Tank Capacity:	00008136
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	249-10
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	249-11
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Click here for Geo Tracker PDF:

E36 **ARCO #9463/FORMER THRIFTY** **LUST** **S103065229**
SSW **11304 CULVER** **HIST CORTESE** **N/A**
1/8-1/4 **LOS ANGELES, CA 90066**
0.192 mi.
1014 ft. **Site 9 of 13 in cluster E**

Relative:
Lower

Actual:
41 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603705485
Global Id:	T0603705485
Latitude:	34.0022321819535
Longitude:	-118.411768376827
Status:	Completed - Case Closed
Status Date:	10/05/2011
Case Worker:	JH
RB Case Number:	R-25093
Local Agency:	LOS ANGELES COUNTY
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603705485
Contact Type:	Regional Board Caseworker
Contact Name:	JAY HUANG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	jhuang@waterboards.ca.gov

ARCO #9463/FORMER THRIFTY (Continued) **S103065229**

Phone Number: 2135766711

Global Id: T0603705485
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

LUST:

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 05/15/2003
Action: Staff Letter

Global Id: T0603705485
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 08/24/2006
Action: CAP/RAP - Final Remediation / Design Plan

Global Id: T0603705485
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 10/18/2005
Action: Interim Remedial Action Plan

Global Id: T0603705485
Action Type: RESPONSE
Date: 05/18/2004
Action: Well Installation Report

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2010
Action: Interim Remedial Action Report

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

ARCO #9463/FORMER THRIFTY (Continued) **S103065229**

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 10/05/2011
Action: Closure/No Further Action Letter

Global Id: T0603705485
Action Type: RESPONSE
Date: 03/04/2009
Action: Risk Assessment Report

Global Id: T0603705485
Action Type: REMEDIATION
Date: 01/29/1998
Action: Free Product Removal

Global Id: T0603705485
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2004
Action: Remedial Progress Report

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 03/26/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 01/15/2011
Action: Remedial Progress Report

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603705485
Action Type: ENFORCEMENT

ARCO #9463/FORMER THRIFTY (Continued) **S103065229**

Date: 08/29/2002
Action: Staff Letter

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 02/04/2003
Action: Staff Letter

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: REMEDIATION
Date: 01/01/1998
Action: Excavation

Global Id: T0603705485
Action Type: REMEDIATION
Date: 12/17/2008
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0603705485
Action Type: REMEDIATION
Date: 12/17/2008
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603705485
Action Type: RESPONSE
Date: 08/15/2011
Action: Soil and Water Investigation Report

Global Id: T0603705485
Action Type: REMEDIATION
Date: 03/22/2004
Action: Soil Vapor Extraction (SVE)

Global Id: T0603705485
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: Other
Date: 12/29/1997
Action: Leak Discovery

ARCO #9463/FORMER THRIFTY (Continued) **S103065229**

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 11/20/2002
Action: Staff Letter

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 06/25/2002
Action: Staff Letter

Global Id: T0603705485
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 12/05/2008
Action: Other Workplan

Global Id: T0603705485
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 08/01/2002
Action: Soil and Water Investigation Workplan

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 11/15/2002
Action: Soil and Water Investigation Report

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE

ARCO #9463/FORMER THRIFTY (Continued) **S103065229**

Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: Other
Date: 01/26/1987
Action: Leak Reported

Global Id: T0603705485
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 05/23/2011
Action: Soil and Water Investigation Workplan

Global Id: T0603705485
Action Type: RESPONSE
Date: 08/11/2011
Action: Request for Closure

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 03/18/2002
Action: Staff Letter

Global Id: T0603705485
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

ARCO #9463/FORMER THRIFTY (Continued) **S103065229**

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 02/02/2007
Action: Staff Letter

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/22/2010
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 06/10/2011
Action: Staff Letter

Global Id: T0603705485
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603705485
Action Type: RESPONSE
Date: 08/02/2002
Action: Interim Remedial Action Plan

Global Id: T0603705485
Action Type: RESPONSE
Date: 10/15/2002
Action: NPDES / WDR Reports

Global Id: T0603705485
Action Type: RESPONSE

ARCO #9463/FORMER THRIFTY (Continued) **S103065229**

Date: 01/15/2003
Action: CAP/RAP - Final Remediation / Design Plan

Global Id: T0603705485
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603705485
Action Type: ENFORCEMENT
Date: 05/28/2010
Action: Staff Letter

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2003
Action: Interim Remedial Action Report

Global Id: T0603705485
Action Type: RESPONSE
Date: 07/15/2007
Action: Remedial Progress Report

Global Id: T0603705485
Action Type: RESPONSE
Date: 04/15/2008
Action: Remedial Progress Report

LUST:
Global Id: T0603705485
Status: Completed - Case Closed
Status Date: 10/05/2011

Global Id: T0603705485
Status: Open - Case Begin Date
Status Date: 01/26/1987

Global Id: T0603705485
Status: Open - Remediation
Status Date: 03/05/2003

Global Id: T0603705485
Status: Open - Remediation
Status Date: 03/22/2004

Global Id: T0603705485
Status: Open - Remediation
Status Date: 08/24/2006

Global Id: T0603705485
Status: Open - Site Assessment
Status Date: 01/18/2002

ARCO #9463/FORMER THRIFTY (Continued) **S103065229**

Global Id: T0603705485
Status: Open - Site Assessment
Status Date: 02/28/2002

Global Id: T0603705485
Status: Open - Site Assessment
Status Date: 03/18/2002

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-25093

E37 SSW 1/8-1/4 0.192 mi. 1014 ft. | **ARCO PRODUCTS COMPANY #9643** | **HIST UST** | **S113097924**
11304 CULVER BLVD | **HAZNET** | **N/A**
LOS ANGELES, CA 90066

Site 10 of 13 in cluster E

Relative: Lower
Actual: 41 ft.

HIST UST:
File Number: 00028D23
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028D23.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HAZNET:
envid: S113097924
Year: 2000
GEPAID: CAL000187195
Contact: CARLOS RODRIGUEZ
Telephone: 7143943436
Mailing Name: Not reported
Mailing Address: PO BOX 6038
Mailing City,St,Zip: ARTESIA, CA 907026038
Gen County: Not reported
TSD EPA ID: CAT080013352

ARCO PRODUCTS COMPANY #9643 (Continued) **S113097924**

TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Recycler
Tons:	0.04
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113097924
Year:	1998
GEPAID:	CAL000187195
Contact:	ARCO PRODUCTS COMPANY
Telephone:	7146705407
Mailing Name:	Not reported
Mailing Address:	PO BOX 6038
Mailing City,St,Zip:	ARTESIA, CA 907026038
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Tons:	3.9198
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

E38 **THRIFTY #249 (FORMER)** **LUST** **S103587504**
SSW **11304 CULVER BLVD** **HAZNET** **N/A**
1/8-1/4 **CULVER CITY, CA 90066**
0.192 mi.
1014 ft. **Site 11 of 13 in cluster E**

Relative:
Lower

Actual:
41 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-25093	
Status:	Remedial action (cleanup) Underway	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		OT
Global ID:	T0603705485	
W Global ID:	Not reported	
Staff:	JH	
Local Agency:	19000	
Cross Street:	SAWTELLE BLVD	
Enforcement Type:	DLSEL	
Date Leak Discovered:	12/29/1997	
Date Leak First Reported:		1/26/1987
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		9/10/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	

THRIFTY #249 (FORMER) (Continued) **S103587504**

Cause of Leak:	UNK
Leak Source:	UNK
Operator:	Not reported
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	8260.4425831581052401437581 39
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	1/18/2002
Preliminary Site Assessment Began:	2/28/2002
Pollution Characterization Began:	3/18/2002
Remediation Plan Submitted:	3/5/2003
Remedial Action Underway:	7/28/2004
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	5/1/2003
Hist Max MTBE Conc in Groundwater:	17600
Hist Max MTBE Conc in Soil:	11100
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	=
Soil Qualifier:	=
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	MS. KATERI LUKA
RP Address:	4 CENTERPOINTE DR.
Program:	LUST
Lat/Long:	33.996837 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	SITE ASSESSMENT REPORT SUBMITTED. TANKS REPLACE APRIL 1998 751.25 TONS OF CONTAMINATED SOIL REMOVED AND TREATED. OLD CASE #R-07087

HAZNET:

envid:	S103587504
Year:	2013
GEPAID:	CAL000373574
Contact:	KULDIP SHARMA
Telephone:	3108214276
Mailing Name:	Not reported
Mailing Address:	PO BOX 66533
Mailing City,St,Zip:	LOS ANGELES, CA 900660000
Gen County:	Los Angeles
TSD EPA ID:	CAD099452708
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.57
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

C39 NW 1/8-1/4 0.197 mi. 1042 ft. | **KAYO OIL CO SS**
11198 W WASHINGTON BLVD PL
CULVER CITY, CA

SWEEPS UST | **S106928096**
N/A

Site 5 of 5 in cluster C

Relative: Lower

Actual: 53 ft.

SWEEPS UST:

Status:	Active
Comp Number:	14314
Number:	9
Board Of Equalization:	44-010394
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-014314-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	3

Status:	Active
Comp Number:	14314
Number:	9
Board Of Equalization:	44-010394
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-014314-000002
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	14314
Number:	9
Board Of Equalization:	44-010394
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-014314-000003
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

40 North 1/8-1/4 0.198 mi. 1043 ft.

HAMILTON AVNET ELECTRONICS
10950 W WASHINGTON BLVD
CULVER CITY, CA 90230

RCRA-SQG
FINDS
ECHO
HAZNET

1000254750
CAD982402711

Relative: Higher

Actual: 63 ft.

RCRA-SQG:

Date form received by agency:	08/15/1989
Facility name:	HAMILTON AVNET ELECTRONICS
Facility address:	10950 W WASHINGTON BLVD CULVER CITY, CA 90230
EPA ID:	CAD982402711
Contact:	ENVIRONMENTAL MANAGER
Contact address:	10950 W WASHINGTON BLVD CULVER CITY, CA 90230
Contact country:	US
Contact telephone:	213-558-2491
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	HAMILTON AVNET ELECT
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	County
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	County
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

HAMILTON AVNET ELECTRONICS (Continued) **1000254750**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002804957

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000254750
Registry ID: 110002804957
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002804957

HAZNET:
envid: 1000254750
Year: 1997
GEPAID: CAD982402711
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 9800 LA CIENEGA BLVD STE 338
Mailing City,St,Zip: INGLEWOOD, CA 903014025
Gen County: Not reported
TSD EPA ID: CAD000088252
TSD County: Not reported
Waste Category: Other empty containers 30 gallons or more
Disposal Method: Transfer Station
Tons: .0030
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000254750
Year: 1997
GEPAID: CAD982402711

HAMILTON AVNET ELECTRONICS (Continued) **1000254750**

Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	9800 LA CIENEGA BLVD STE 338
Mailing City,St,Zip:	INGLEWOOD, CA 903014025
Gen County:	Not reported
TSD EPA ID:	CAD000088252
TSD County:	Not reported
Waste Category:	Polymeric resin waste
Disposal Method:	Transfer Station
Tons:	.2293
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000254750
Year:	1997
GEPAID:	CAD982402711
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	9800 LA CIENEGA BLVD STE 338
Mailing City,St,Zip:	INGLEWOOD, CA 903014025
Gen County:	Not reported
TSD EPA ID:	CAD000088252
TSD County:	Not reported
Waste Category:	Liquids with pH <= 2
Disposal Method:	Transfer Station
Tons:	.2500
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000254750
Year:	1997
GEPAID:	CAD982402711
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	9800 LA CIENEGA BLVD STE 338
Mailing City,St,Zip:	INGLEWOOD, CA 903014025
Gen County:	Not reported
TSD EPA ID:	CAD000088252
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Transfer Station
Tons:	.2293
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000254750
Year:	1997
GEPAID:	CAD982402711
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported

HAMILTON AVNET ELECTRONICS (Continued) **1000254750**

Mailing Address:	9800 LA CIENEGA BLVD STE 338
Mailing City,St,Zip:	INGLEWOOD, CA 903014025
Gen County:	Not reported
TSD EPA ID:	CAD000088252
TSD County:	Not reported
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Transfer Station
Tons:	.0834
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

E41 **UNOCAL CORP SS 5836** **SWEEPS UST** **S106933512**
SW **11305 CULVER BLVD** **N/A**
1/8-1/4 **CULVER CITY, CA**
0.198 mi.
1044 ft. **Site 12 of 13 in cluster E**

Relative:
Lower

Actual:
45 ft.

SWEEPS UST:

Status:	Active
Comp Number:	7083
Number:	9
Board Of Equalization:	44-001057
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-007083-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	3

Status:	Active
Comp Number:	7083
Number:	9
Board Of Equalization:	44-001057
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-007083-000002
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	7083

UNOCAL CORP SS 5836 (Continued) **S106933512**

Number: 9
Board Of Equalization: 44-001057
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-007083-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

F42
SE
1/8-1/4
0.204 mi.
1075 ft.

UNOCAL CORP SS 5407
4436 SEPULVEDA BLVD
CULVER CITY, CA 90230

SWEEPS UST **S101583396**
CA FID UST **N/A**
LOS ANGELES CO. HMS

Site 1 of 5 in cluster F

Relative:
Lower

Actual:
43 ft.

SWEEPS UST:
Status: Active
Comp Number: 7110
Number: 9
Board Of Equalization: 44-001057
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-007110-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 7110
Number: 9
Board Of Equalization: 44-001057
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-007110-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 7110

UNOCAL CORP SS 5407 (Continued) **S101583396**

Number: 9
Board Of Equalization: 44-001057
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-007110-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 7110
Number: 9
Board Of Equalization: 44-001057
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-007110-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19003620
Regulated By: UTNKA
Regulated ID: 00017244
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8180000000
Mail To: Not reported
Mailing Address: 3701 WILSHIRE BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: CULVER CITY
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

LOS ANGELES CO. HMS:
Region: LA
Permit Category: I
Facility Id: 006878-I07110
Facility Type: 01

UNOCAL CORP SS 5407 (Continued) **S101583396**

Facility Status: Closed
Area: 2M
Permit Number: 000020093
Permit Status: Closed

Region: LA
Permit Category: I
Facility Id: 006878-I07110
Facility Type: 01
Facility Status: Closed
Area: 2M
Permit Number: 000146170
Permit Status: Closed

Region: LA
Permit Category: I
Facility Id: 006878-I07110
Facility Type: 01
Facility Status: Closed
Area: 2M
Permit Number: 000L12608
Permit Status: Closed

Region: LA
Permit Category: T
Facility Id: 006878-007110
Facility Type: 0
Facility Status: Closed
Area: 2M
Permit Number: 00001396T
Permit Status: Closed

Region: LA
Permit Category: Not reported
Facility Id: 006878-039949
Facility Type: Not reported
Facility Status: OPEN
Area: 2M
Permit Number: Not reported
Permit Status: Not reported

Region: LA
Permit Category: T
Facility Id: 006878-024743
Facility Type: 0
Facility Status: Removed
Area: 2M
Permit Number: 000190150
Permit Status: Removed

F43 **TOSCO/UNOCAL #30873** **UST** **U003942428**
SE **4436 SEPULVEDA BLVD** **N/A**
1/8-1/4 **CULVER CITY, CA 90230**
0.204 mi.
1075 ft. **Site 2 of 5 in cluster F**

Relative: **Lower**
Actual: **43 ft.**

UST:

Facility ID:	24743
Permitting Agency:	LOS ANGELES COUNTY
Latitude:	34.0043926
Longitude:	-118.4049932

F44 **UNION OIL SERVICE STATION 5407** **HIST UST** **1000166539**
SE **4436 SEPULVEDA BLVD** **N/A**
1/8-1/4 **CULVER CITY, CA 90230**
0.204 mi.
1075 ft. **Site 3 of 5 in cluster F**

Relative: **Lower**
Actual: **43 ft.**

HIST UST:

File Number:	00028223
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028223.pdf
Region:	STATE
Facility ID:	00000055506
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	GEORGE W. HANISS
Telephone:	2133912110
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0001
Tank Num:	001
Container Num:	5407-00
Year Installed:	Not reported
Tank Capacity:	00000607
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

F45 **TOSCO - 76 STATION #5407 (FORMER)** **LUST** **S102440035**
SE **4436 SEPULVEDA BLVD** **HAZNET** **N/A**
1/8-1/4 **CULVER CITY, CA 90230** **HIST CORTESE**
0.204 mi.
1075 ft. **Site 4 of 5 in cluster F**

Relative: **Lower**
Actual: **43 ft.**

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703281
Global Id:	T0603703281
Latitude:	34.0028238
Longitude:	-118.4065769
Status:	Completed - Case Closed
Status Date:	10/23/2009

TOSCO - 76 STATION #5407 (FORMER) (Continued) **S102440035**

Case Worker:	Not reported
RB Case Number:	I-07110
Local Agency:	LOS ANGELES COUNTY
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603703281
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

LUST:

Global Id:	T0603703281
Action Type:	RESPONSE
Date:	04/15/2006
Action:	Soil and Water Investigation Report
Global Id:	T0603703281
Action Type:	RESPONSE
Date:	04/15/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0603703281
Action Type:	RESPONSE
Date:	01/15/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0603703281
Action Type:	RESPONSE
Date:	07/15/2005
Action:	Monitoring Report - Quarterly
Global Id:	T0603703281
Action Type:	RESPONSE
Date:	01/15/2004
Action:	Monitoring Report - Quarterly
Global Id:	T0603703281
Action Type:	RESPONSE
Date:	04/15/2008
Action:	Monitoring Report - Quarterly
Global Id:	T0603703281
Action Type:	RESPONSE
Date:	04/15/2007
Action:	Soil and Water Investigation Report
Global Id:	T0603703281
Action Type:	RESPONSE

TOSCO - 76 STATION #5407 (FORMER) (Continued) **S102440035**

Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 01/15/2003
Action: Remedial Progress Report

Global Id: T0603703281
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: ENFORCEMENT
Date: 06/16/2009
Action: Notification - Preclosure

Global Id: T0603703281
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: ENFORCEMENT
Date: 06/20/2002
Action: Staff Letter

Global Id: T0603703281
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: ENFORCEMENT
Date: 01/29/2009
Action: Site Visit / Inspection / Sampling

Global Id: T0603703281
Action Type: REMEDIATION
Date: 04/01/2004
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0603703281
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 11/05/2002
Action: Well Installation Report

TOSCO - 76 STATION #5407 (FORMER) (Continued) **S102440035**

Global Id: T0603703281
Action Type: RESPONSE
Date: 07/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 06/12/2002
Action: Interim Remedial Action Plan

Global Id: T0603703281
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: ENFORCEMENT
Date: 10/23/2009
Action: Closure/No Further Action Letter

Global Id: T0603703281
Action Type: Other
Date: 05/05/1992
Action: Leak Reported

Global Id: T0603703281
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 11/03/2008
Action: Request for Closure

Global Id: T0603703281
Action Type: ENFORCEMENT
Date: 07/22/2009
Action: Staff Letter

Global Id: T0603703281
Action Type: REMEDIATION
Date: 05/01/2001
Action: Soil Vapor Extraction (SVE)

Global Id: T0603703281
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE

TOSCO - 76 STATION #5407 (FORMER) (Continued) **S102440035**

Date: 10/15/2006
Action: Other Workplan

Global Id: T0603703281
Action Type: ENFORCEMENT
Date: 11/01/2001
Action: Staff Letter

Global Id: T0603703281
Action Type: ENFORCEMENT
Date: 02/06/2004
Action: Staff Letter

Global Id: T0603703281
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 06/09/2005
Action: Soil and Water Investigation Report

Global Id: T0603703281
Action Type: ENFORCEMENT
Date: 04/30/2009
Action: Notification - Preclosure

Global Id: T0603703281
Action Type: RESPONSE
Date: 10/24/2002
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: Other
Date: 03/23/1992
Action: Leak Discovery

Global Id: T0603703281
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

TOSCO - 76 STATION #5407 (FORMER) (Continued) **S102440035**

Global Id: T0603703281
Action Type: RESPONSE
Date: 09/07/2004
Action: Soil and Water Investigation Workplan

Global Id: T0603703281
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 04/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603703281
Action Type: RESPONSE
Date: 07/15/2009
Action: Other Report / Document

Global Id: T0603703281
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

LUST:
Global Id: T0603703281
Status: Completed - Case Closed
Status Date: 10/23/2009

Global Id: T0603703281
Status: Open - Case Begin Date
Status Date: 03/23/1992

Global Id: T0603703281
Status: Open - Remediation
Status Date: 01/26/2000

Global Id: T0603703281
Status: Open - Remediation
Status Date: 02/06/2004

TOSCO - 76 STATION #5407 (FORMER) (Continued) **S102440035**

Global Id: T0603703281
Status: Open - Site Assessment
Status Date: 05/05/1992

Global Id: T0603703281
Status: Open - Site Assessment
Status Date: 07/31/1995

Global Id: T0603703281
Status: Open - Site Assessment
Status Date: 03/24/1997

Global Id: T0603703281
Status: Open - Site Assessment
Status Date: 09/07/2004

Global Id: T0603703281
Status: Open - Site Assessment
Status Date: 04/14/2006

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-07110
Status: Remedial action (cleanup) Underway
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603703281
W Global ID: Not reported
Staff: MSH
Local Agency: 19000
Cross Street: BRADDOCK DR
Enforcement Type: SEL
Date Leak Discovered: 3/23/1992
Date Leak First Reported: 5/5/1992
Date Leak Record Entered: 5/27/1992
Date Confirmation Began: 5/5/1992
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 6/12/2002
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: Tank
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 5860.428671217540565580038173 6
Source of Cleanup Funding: Tank
Preliminary Site Assessment Workplan Submitted: 5/5/1992
Preliminary Site Assessment Began: 7/31/1995
Pollution Characterization Began: 3/24/1997

TOSCO - 76 STATION #5407 (FORMER) (Continued) **S102440035**

Remediation Plan Submitted:	1/26/2000
Remedial Action Underway:	1/31/2003
Post Remedial Action Monitoring Began:	5/5/1992
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	1/27/1999
Hist Max MTBE Conc in Groundwater:	63000
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	No
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	MS. LIZ SEWELL
RP Address:	3525 HYLAND AVE.
Program:	LUST
Lat/Long:	34.0028238 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	7/15/00 2ND QTR GW MON RPT 2000; 9/12/00 REMED. WELL INSTALLATION RPT; 10/15/00 3RD QTR GW MON RPT 2000; 1/15/01 4TH QTR GW MON RPT 2000

HAZNET:

envid:	S102440035
Year:	2013
GEPAID:	CAC002730835
Contact:	ROBERT
Telephone:	7148430707
Mailing Name:	Not reported
Mailing Address:	16371 GOTHARD ST. STE B
Mailing City,St,Zip:	HUNTINGTON BEACH, CA 92647
Gen County:	Los Angeles
TSD EPA ID:	AZR000501510
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.155
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-07110

F46 SE 1/8-1/4 0.204 mi. 1075 ft. | **SERVICE STATION 5407**
4436 SEPULVEDA BLVDS
CULVER CITY, CA 90230

Site 5 of 5 in cluster F | **HIST UST** | **U001562850**
N/A

Relative: Lower
Actual: 43 ft.

HIST UST:

File Number:	000290F2
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000290F2.pdf
Region:	STATE
Facility ID:	00000017244
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	GEORGE W HANISS
Telephone:	2133912110
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0003
Tank Num:	001
Container Num:	5407-4
Year Installed:	1965
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	5407-2
Year Installed:	1965
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	003
Container Num:	5407-1
Year Installed:	1965
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test

Click here for Geo Tracker PDF:

---

47 West 1/8-1/4 0.207 mi. 1091 ft. | **THOMAS LENNARTZ D C**
11274 WASHINGTON BLVD
CULVER CITY, CA 90230 | **RCRA-SQG**
FINDS
ECHO
HAZNET | **1000685852**
CAD983625278

Relative: Higher
Actual: 56 ft.

RCRA-SQG:

Date form received by agency:	03/27/1992
Facility name:	THOMAS LENNARTZ D C
Facility address:	11274 WASHINGTON BLVD CULVER CITY, CA 90230

THOMAS LENNARTZ D C (Continued) **1000685852**

EPA ID:	CAD983625278
Contact:	THOMAS LENNARTZ
Contact address:	11274 WASHINGTON BLVD CULVER CITY, CA 90230
Contact country:	US
Contact telephone:	310-397-8972
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	THOMAS LENNARTZ
Owner/operator address:	11274 WASHINGTON BLVD CULVER CITY, CA 90230
Owner/operator country:	Not reported
Owner/operator telephone:	310-397-8972
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110006483153

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

THOMAS LENNARTZ D C (Continued) **1000685852**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000685852
Registry ID:	110006483153
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110006483153

HAZNET:

envid:	1000685852
Year:	1994
GEPAID:	CAD983625278
Contact:	THOMAS LENNARTZ
Telephone:	3103978972
Mailing Name:	Not reported
Mailing Address:	11274 WASHINGTON BLVD
Mailing City,St,Zip:	CULVER CITY, CA 902300000
Gen County:	Not reported
TSD EPA ID:	CAD982524613
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Not reported
Tons:	.0125
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

envid:	1000685852
Year:	1994
GEPAID:	CAD983625278
Contact:	THOMAS LENNARTZ
Telephone:	3103978972
Mailing Name:	Not reported
Mailing Address:	11274 WASHINGTON BLVD
Mailing City,St,Zip:	CULVER CITY, CA 902300000
Gen County:	Not reported
TSD EPA ID:	Not reported
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	.0125
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

envid:	1000685852
Year:	1993
GEPAID:	CAD983625278
Contact:	THOMAS LENNARTZ
Telephone:	3103978972
Mailing Name:	Not reported
Mailing Address:	11274 WASHINGTON BLVD

THOMAS LENNARTZ D C (Continued) **1000685852**

Mailing City,St,Zip:	CULVER CITY, CA 902300000
Gen County:	Not reported
TSD EPA ID:	CAD982524613
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	0.10829999999
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

G48 **OHMEGA TECHNOLOGIES INC** **SWEEPS UST** **S100941022**
North **4031 ELENDA ST** **LOS ANGELES CO. HMS** **N/A**
1/8-1/4 **CULVER CITY, CA 90232**
0.211 mi.
1115 ft. **Site 1 of 3 in cluster G**

Relative:
Higher

Actual:
64 ft.

SWEEPS UST:

Status:	Active
Comp Number:	7164
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	Not reported
Facility Id:	006929-007164
Facility Type:	Not reported
Facility Status:	Removed
Area:	2M
Permit Number:	Not reported
Permit Status:	Not reported

G49 **MICA CORP THE** **SEMS-ARCHIVE** **1003878841**
North **4031 ELENDA ST** **CAD981371289**
1/8-1/4 **CULVER CITY, CA 90230**
0.211 mi.
1115 ft. **Site 2 of 3 in cluster G**

Relative:
Higher

Actual:
64 ft.

SEMS Archive:

Site ID:	902289
EPA ID:	CAD981371289
Cong District:	27
FIPS Code:	6037

MICA CORP THE (Continued) **1003878841**

FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information
Latitude:	34.023333000000001
Longitude:	-118.41500000000001

SEMS Archive Detail:

Region:	9
Site ID:	902289
EPA ID:	CAD981371289
Site Name:	MICA CORP THE
NPL:	N
FF:	N
OU:	0
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1986-06-01 00:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	9
Site ID:	902289
EPA ID:	CAD981371289
Site Name:	MICA CORP THE
NPL:	N
FF:	N
OU:	0
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1986-02-01 00:00:00
Finish Date:	1986-02-01 00:00:00
Qual:	Not reported
Current Action Lead:	St Perf

Region:	9
Site ID:	902289
EPA ID:	CAD981371289
Site Name:	MICA CORP THE
NPL:	N
FF:	N
OU:	0
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1985-12-01 00:00:00
Finish Date:	1986-06-01 00:00:00
Qual:	N
Current Action Lead:	St Perf

G50
North
1/8-1/4
0.211 mi.
1115 ft.

Relative:
Higher

Actual:
64 ft.

OHMEGA TECHNOLOGIES INC
4031 ELENDA ST
CULVER CITY, CA 90232

Site 3 of 3 in cluster G

RCRA-SQG
ENVIROSTOR
FINDS
ECHO
HAZNET
LOS ANGELES CO. HMS
WDS

1000202352
CAD981397391

RCRA-SQG:

Date form received by agency:	04/21/1986
Facility name:	OHMEGA TECHNOLOGIES INC
Facility address:	4031 ELENDA ST CULVER CITY, CA 90232
EPA ID:	CAD981397391
Contact:	ENVIRONMENTAL MANAGER
Contact address:	4031 ELENDA ST CULVER CITY, CA 90232
Contact country:	US
Contact telephone:	213-559-4400
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ALAN D LEVE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

OHMEGA TECHNOLOGIES INC (Continued) **1000202352**

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 71002813
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 54
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.01252
Longitude: -118.4087
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981397391
Alias Type: EPA Identification Number
Alias Name: 110002693504
Alias Type: EPA (FRS #)
Alias Name: 71002813
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported

OHMEGA TECHNOLOGIES INC (Continued) **1000202352**

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 19300124
Status: Refer: Other Agency
Status Date: 08/31/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Chatsworth
Assembly: 54
Senate: 30
Special Program: * Site Char & Assess Grant (CERCLA 104)
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.01252
Longitude: -118.4087
APN: 4208024017
Past Use: NONE SPECIFIED
Potential COC: * UNSPECIFIED ACID SOLUTION * UNSPECIFIED SOLVENT MIXTURES * POLYMERIC RESIN WASTE * UNSPECIFIED ORGANIC LIQUID MIXTURE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: OHMEGA TECHNOLOGIES, INC
Alias Type: Alternate Name
Alias Name: 4208024017
Alias Type: APN
Alias Name: 19300124
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 01/26/1983
Comments: FACILITY IDENTIFIED LA CHAM OF COMM BUS DIR 1971 PLASTIC LAMINATION

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

OHMEGA TECHNOLOGIES INC (Continued) **1000202352**

Schedule Revised Date: Not reported

FINDS:

Registry ID: 110002693504

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000202352
Registry ID:	110002693504
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002693504

HAZNET:

envid:	1000202352
Year:	2017
GEPAID:	CAD981397391
Contact:	MANOJ SINGH
Telephone:	3105594400
Mailing Name:	Not reported
Mailing Address:	4031 ELENDA ST
Mailing City,St,Zip:	CULVER CITY, CA 902323723
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Liquids with pH <= 2 with metals
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	1.14675
Cat Decode:	Liquids with pH <= 2 with metals

OHMEGA TECHNOLOGIES INC (Continued) **1000202352**

Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: 1000202352
Year: 2017
GEPAID: CAD981397391
Contact: MANOJ SINGH
Telephone: 3105594400
Mailing Name: Not reported
Mailing Address: 4031 ELENDA ST
Mailing City,St,Zip: CULVER CITY, CA 902323723
Gen County: Los Angeles
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.875
Cat Decode: Other organic solids
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: 1000202352
Year: 2017
GEPAID: CAD981397391
Contact: MANOJ SINGH
Telephone: 3105594400
Mailing Name: Not reported
Mailing Address: 4031 ELENDA ST
Mailing City,St,Zip: CULVER CITY, CA 902323723
Gen County: Los Angeles
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Liquids with nickel >= 134 Mg./L
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 1.3761
Cat Decode: Liquids with nickel >= 134 Mg./L
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: 1000202352
Year: 2017
GEPAID: CAD981397391
Contact: MANOJ SINGH
Telephone: 3105594400
Mailing Name: Not reported
Mailing Address: 4031 ELENDA ST
Mailing City,St,Zip: CULVER CITY, CA 902323723
Gen County: Los Angeles
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Unspecified aqueous solution
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To

OHMEGA TECHNOLOGIES INC (Continued) **1000202352**

	Include On-Site Treatment And/Or Stabilization)
Tons:	0.3
Cat Decode:	Unspecified aqueous solution
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

envid:	1000202352
Year:	2017
GEPAID:	CAD981397391
Contact:	MANOJ SINGH
Telephone:	3105594400
Mailing Name:	Not reported
Mailing Address:	4031 ELENDA ST
Mailing City,St,Zip:	CULVER CITY, CA 902323723
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other inorganic solid waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.7
Cat Decode:	Other inorganic solid waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
136 additional CA_HAZNET: record(s) in the EDR Site Report.

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	I
Facility Id:	006929-I07164
Facility Type:	01
Facility Status:	Permit
Area:	2M
Permit Number:	00010641C
Permit Status:	Closed

Region:	LA
Permit Category:	I
Facility Id:	006929-I07164
Facility Type:	01
Facility Status:	Permit
Area:	2M
Permit Number:	000020433
Permit Status:	Permit

Region:	LA
Permit Category:	I
Facility Id:	006929-I07164
Facility Type:	11
Facility Status:	Permit
Area:	2M
Permit Number:	000T20433
Permit Status:	Closed

OHMEGA TECHNOLOGIES INC (Continued) **1000202352**

Region: LA
Permit Category: I
Facility Id: 006929-I07164
Facility Type: 11
Facility Status: Permit
Area: 2M
Permit Number: TEMP20433
Permit Status: Closed

Region: LA
Permit Category: S
Facility Id: 006929-047481
Facility Type: S6
Facility Status: Closed
Area: 2M
Permit Number: CGI009533
Permit Status: Closed

WDS:
Facility ID: 4 19I009533
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 4
Facility Telephone: 3105594400
Facility Contact: DANIEL BRANDLER
Agency Name: OHMEGA TECHNOLOGIES INC
Agency Address: 4031 Elenda St
Agency City,St,Zip: Culver City 902323799
Agency Contact: DANIEL BRANDLER
Agency Telephone: 3105594400
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to

OHMEGA TECHNOLOGIES INC (Continued) **1000202352**

represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

H51 **SUNSHINE CTR CLEANERS** **DRYCLEANERS** **S121696336**
NNW **11124 W WASHINGTON BLVD** **N/A**
1/8-1/4 **CULVER CITY, CA 90230**
0.212 mi.
1117 ft. **Site 1 of 3 in cluster H**

Relative:
Lower
Actual:
53 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	15719
Application Number:	C29799
Permit Number:	M13768
Status:	S
Representative Name:	Not reported
Representative Telephone:	Not reported
Permit Status:	INACT_NR
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

H52 **SUNSHINE CENTER DRY CLEANERS** **DRYCLEANERS** **S121698432**
NNW **11124 W WASHINGTON BLVD** **N/A**
1/8-1/4 **CULVER CITY, CA 90230**
0.212 mi.
1117 ft. **Site 2 of 3 in cluster H**

Relative:
Lower
Actual:
53 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	54747
Application Number:	149013
Permit Number:	M53965
Status:	O
Representative Name:	MANSOU STEVE JAVAHER
Representative Telephone:	818 3439213
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	369.70001221
UTM North:	3763.8000488

H53 NNW 1/8-1/4 0.212 mi. 1117 ft. | **TRANSNATIONAL PROPERTY**
11124 WASHINGTON BLVD
CULVER CITY, CA 90230

Site 3 of 3 in cluster H

CPS-SLIC | **S106387160**
N/A

Relative: Lower

Actual: 53 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	02/04/2016
Global Id:	SL2049D1723
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.008309
Longitude:	-118.411423
Case Type:	Cleanup Program Site
Case Worker:	TA
Local Agency:	Not reported
RB Case Number:	0910
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern:	Not reported
Site History:	The ' site was formerly occupied by a laundromat and dry cleaner facility from 1962 to 1986. All , equipment related to the former dry, cleaner operation was removed from the Site. The Site currently houses' an ink and toner cartridges distributor. PCE was detected in soil at concentrations up to 2,400 micrograms .per kil ogram (4g/Kg), at 5 feet below ground surface (bgs). The highest concentration of PCE detected in groundwater is 1,500 micrograms per liter (.tg/L) and 40 a%g/t of trichloroethylene (TCE). A soil vapor survey consisting of ten sampling points collected at 5 feet bgs yielded up to 120 tg/L. PCE contaminated soil near the source area was remediate using soil vapor extraction (SVE) from June through December 2003. Soil confirmation samples collected in January 2004 indicated 'nondetectable concentrations of PCE and TCE. Based on the confirmation sampling results, the RegionalBoard issued a no further action (NFA) for soil only to the Site in August 2004. At the time of soil closure, eight (8) groundwater monitoring wells were installed at and in the vicinity of the Site. Since then, groundwater monitoring has been conducted on a quarterly basis. The results of the most recent groundwater monitoring data show PCE concentrations ranging from 9 to 708 ig/L and up to 31 ng/L of TCE. The sample with the highest concentration was collected from well MW-5, an on-Site and *downgradient well. The overall monitoring data suggest that PCE concentrations in up- and cross-gradient wells have decreased, but increased in down-gradient wells (MW-5, MW-7 and MW-8). The Site is located in the Central Coast Basin of the Coastal Plain of Los Angeles. Based on the soil boring log, the soil beneath the Site consists of a mixture of silt, clayey silt with fine to coarse sand, and a dense gravelly layer to approximately 55 feet bgs. Depth to groundwater was approximately 32 feet bgs measured January 2007, but was 49 feet bgs in the year 2000. Groundwater level is currently rising primarily due to the shutdown of Charnock production wells. The saturated zone at the Site consists of recent alluvium of the Ballona aquifer ("50 feet gravel") overlying the Silverado aquifer separated by an undifferentiated aquiclude. The groundwater flow direction is to the south-southeast.

TRANSNATIONAL PROPERTY (Continued) **S106387160**

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

Region:	4
Facility Status:	Site Assessment
SLIC:	0910
Substance:	VOCs
Staff:	Jenny Au

E54
SW
1/8-1/4
0.216 mi.
1143 ft.

APARTMENT HOUSE **RCRA-SQG** **1008194367**
4272 CORINTH AVE. **CAC002564485**
LOS ANGELES, CA 90066

Site 13 of 13 in cluster E

Relative:
Lower

Actual:
46 ft.

RCRA-SQG:

Date form received by agency:	01/28/2004
Facility name:	APARTMENT HOUSE
Facility address:	4272 CORINTH AVE. LOS ANGELES, CA 90066
EPA ID:	CAC002564485
Mailing address:	P.O. BOX 66488 LOS ANGELES, CA 90066
Contact:	DENNIS R MOREHEAD
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	310-306-2056
Telephone ext.:	116
Contact email:	DMOREHEAD@COVAD.NET
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CORVAL PROPERTIES, L.P.
Owner/operator address:	P. O. BOX 66488 LOS ANGELES, CA 90066
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/09/2001
Owner/Op end date:	Not reported
Owner/operator name:	HMH ASCIATES, INC.
Owner/operator address:	Not reported Not reported
Owner/operator country:	US

APARTMENT HOUSE (Continued) **1008194367**

Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 04/21/2000
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/28/2004
Site name: APARTMENT HOUSE
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

I55 **SOBHI F IBRAHIM** **HIST UST** **U001562853**
NW **11181 WASHINGTON BLVD** **N/A**
1/8-1/4 **CULVER CITY, CA 90230**
0.224 mi.
1183 ft. **Site 1 of 6 in cluster I**

Relative:
Lower

Actual:
52 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000026561
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 0000000000
Owner Name: ARCO PETROLEUM PRODUCTS CO.
Owner Address: 515 SOUTH FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90071
Total Tanks: 0005

Tank Num: 001
Container Num: 0000000001

SOBHI F IBRAHIM (Continued) **U001562853**

Year Installed:	1982
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10

Tank Num:	002
Container Num:	0000000002
Year Installed:	1970
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	003
Container Num:	0000000003
Year Installed:	1965
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	004
Container Num:	0000000004
Year Installed:	1965
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000167
Leak Detection:	Stock Inventor, 10

Tank Num:	005
Container Num:	0000000005
Year Installed:	1965
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000167
Leak Detection:	Stock Inventor, 10

I56 **JASPAL INC.** **UST** **U003938042**
NW **11181 WASHINGTON BLVD** **N/A**
1/8-1/4 **CULVER CITY, CA 90232**
0.224 mi.
1183 ft. **Site 2 of 6 in cluster I**

Relative:
Lower

Actual:
52 ft.

UST:

Facility ID:	7031
Permitting Agency:	LOS ANGELES COUNTY
Latitude:	34.0090633
Longitude:	-118.4117107

Facility ID:	LACOFA0029046
Permitting Agency:	Los Angeles County Fire Department
Latitude:	34.00772

JASPAL INC. (Continued) **U003938042**

Longitude: -118.41299

I57 **SOBHI F IBRAHIM** **HIST UST** **S113114049**
NW **11181 W WASHINGTON BLVD** **HAZNET** **N/A**
1/8-1/4 **CULVER CITY, CA 90230**
0.224 mi.
1183 ft. **Site 3 of 6 in cluster I**

Relative:
Lower

Actual:
52 ft.

HIST UST:

File Number:	00026432
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026432.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

envid:	S113114049
Year:	2006
GEPAID:	CAL000225675
Contact:	JACK OMAN WASTE SPECIALIST
Telephone:	7146703958
Mailing Name:	Not reported
Mailing Address:	PO BOX 80249
Mailing City,St,Zip:	RCHO STA MARG, CA 926880000
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.02
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles
envid:	S113114049
Year:	2006
GEPAID:	CAL000225675
Contact:	JACK OMAN WASTE SPECIALIST

SOBHI F IBRAHIM (Continued) **S113114049**

Telephone:	7146703958
Mailing Name:	Not reported
Mailing Address:	PO BOX 80249
Mailing City,St,Zip:	RCHO STA MARG, CA 926880000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Recycler
Tons:	0.18
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113114049
Year:	2006
GEPAID:	CAL000225675
Contact:	JACK OMAN WASTE SPECIALIST
Telephone:	7146703958
Mailing Name:	Not reported
Mailing Address:	PO BOX 80249
Mailing City,St,Zip:	RCHO STA MARG, CA 926880000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	0.02
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113114049
Year:	2005
GEPAID:	CAL000225675
Contact:	JACK OMAN WASTE SPECIALIST
Telephone:	7146703958
Mailing Name:	Not reported
Mailing Address:	PO BOX 80249
Mailing City,St,Zip:	RCHO STA MARG, CA 926880000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Not reported
Tons:	0.1
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113114049
Year:	2005
GEPAID:	CAL000225675
Contact:	JACK OMAN WASTE SPECIALIST
Telephone:	7146703958
Mailing Name:	Not reported

SOBHI F IBRAHIM (Continued) **S113114049**

Mailing Address:	PO BOX 80249
Mailing City,St,Zip:	RCHO STA MARG, CA 926880000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Recycler
Tons:	0.04
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA_HAZNET: record(s) in the EDR Site Report.

I58 **ARCO #1246** **LUST** **S101296061**
NW **11181 WASHINGTON BLVD** **HIST CORTESE** **N/A**
1/8-1/4 **CULVER CITY, CA 90232**
0.224 mi.
1183 ft. **Site 4 of 6 in cluster I**

Relative:
Lower

Actual:
52 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703272
Global Id:	T0603703272
Latitude:	34.0075785
Longitude:	-118.4128931
Status:	Completed - Case Closed
Status Date:	01/05/2011
Case Worker:	WXT
RB Case Number:	I-07031
Local Agency:	LOS ANGELES COUNTY
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Well used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603703272
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703272
Contact Type:	Regional Board Caseworker
Contact Name:	WEIXING TONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	wtong@waterboards.ca.gov
Phone Number:	Not reported

ARCO #1246 (Continued) **S101296061**

LUST:

Global Id: T0603703272
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/27/2007
Action: Interim Remedial Action Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 07/24/2008
Action: Staff Letter

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 09/24/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2006
Action: Remedial Progress Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 01/05/2011
Action: Closure/No Further Action Letter

Global Id: T0603703272
Action Type: RESPONSE
Date: 10/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603703272

ARCO #1246 (Continued) **S101296061**

Action Type: RESPONSE
Date: 08/30/2008
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 01/05/2009
Action: Staff Letter

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 09/15/2008
Action: Staff Letter

Global Id: T0603703272
Action Type: RESPONSE
Date: 08/31/2006
Action: Interim Remedial Action Plan

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/30/2007
Action: Remedial Progress Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/24/2007
Action: Interim Remedial Action Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 01/15/2006
Action: Remedial Progress Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 11/15/2007

ARCO #1246 (Continued) **S101296061**

Action: Final Remedial Action Report / Corrective Action Report

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 06/05/1997
Action: 13267 Requirement

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 07/01/2002
Action: Staff Letter

Global Id: T0603703272
Action Type: REMEDIATION
Date: 11/01/2003
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0603703272
Action Type: REMEDIATION
Date: 02/01/1990
Action: Excavation

Global Id: T0603703272
Action Type: RESPONSE
Date: 10/15/2005
Action: Remedial Progress Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2009
Action: Remedial Progress Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 01/19/2010
Action: Remedial Progress Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 12/30/2003
Action: Interim Remedial Action Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

ARCO #1246 (Continued) **S101296061**

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2003
Action: Remedial Progress Report

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 10/19/2006
Action: Staff Letter

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 02/13/2007
Action: Staff Letter

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 09/18/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/16/2007
Action: Other Report / Document

Global Id: T0603703272
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 12/24/2008
Action: Pilot Study/ Treatability Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: Other

ARCO #1246 (Continued) **S101296061**

Date: 05/24/1990
Action: Leak Discovery

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: Other
Date: 05/24/1990
Action: Leak Stopped

Global Id: T0603703272
Action Type: Other
Date: 08/30/1990
Action: Leak Reported

Global Id: T0603703272
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 08/29/2008
Action: Well Destruction Workplan

Global Id: T0603703272
Action Type: REMEDIATION
Date: 07/01/1994
Action: Soil Vapor Extraction (SVE)

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603703272
Action Type: RESPONSE
Date: 12/15/2008
Action: Remedial Progress Report

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 04/10/2003
Action: Staff Letter

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 08/15/2002
Action: 13267 Requirement

ARCO #1246 (Continued) **S101296061**

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2004
Action: Remedial Progress Report

Global Id: T0603703272
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 08/17/2007
Action: Staff Letter

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 01/15/2009
Action: Conceptual Site Model

Global Id: T0603703272
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: ENFORCEMENT
Date: 11/09/2010
Action: Notification - Preclosure

Global Id: T0603703272
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 04/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: ENFORCEMENT

ARCO #1246 (Continued) **S101296061**

Date: 08/28/2003
Action: Staff Letter

Global Id: T0603703272
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703272
Action Type: RESPONSE
Date: 07/15/2002
Action: Other Report / Document

LUST:
Global Id: T0603703272
Status: Completed - Case Closed
Status Date: 01/05/2011

Global Id: T0603703272
Status: Open - Case Begin Date
Status Date: 11/28/1989

Global Id: T0603703272
Status: Open - Remediation
Status Date: 09/23/1993

Global Id: T0603703272
Status: Open - Remediation
Status Date: 07/01/1994

Global Id: T0603703272
Status: Open - Remediation
Status Date: 04/15/2003

Global Id: T0603703272
Status: Open - Remediation
Status Date: 07/15/2003

Global Id: T0603703272
Status: Open - Remediation
Status Date: 08/28/2003

Global Id: T0603703272
Status: Open - Remediation
Status Date: 04/15/2004

Global Id: T0603703272
Status: Open - Remediation
Status Date: 10/17/2005

Global Id: T0603703272
Status: Open - Remediation
Status Date: 01/13/2006

Global Id: T0603703272
Status: Open - Remediation
Status Date: 05/04/2006

ARCO #1246 (Continued) **S101296061**

Global Id: T0603703272
Status: Open - Remediation
Status Date: 07/30/2007

Global Id: T0603703272
Status: Open - Remediation
Status Date: 11/16/2007

Global Id: T0603703272
Status: Open - Site Assessment
Status Date: 11/28/1989

Global Id: T0603703272
Status: Open - Site Assessment
Status Date: 05/24/1990

Global Id: T0603703272
Status: Open - Site Assessment
Status Date: 10/20/1992

Global Id: T0603703272
Status: Open - Verification Monitoring
Status Date: 08/30/1990

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-07031
Status: Remedial action (cleanup) Underway
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Specific tank leak that has contaminated a specific well used for drinking water
Abatement Method Used at the Site: VE
Global ID: T0603703272
W Global ID: Not reported
Staff: WXT
Local Agency: 19000
Cross Street: SEPULVEDA BLVD
Enforcement Type: SI
Date Leak Discovered: 5/24/1990
Date Leak First Reported: 8/30/1990
Date Leak Record Entered: 12/2/1990
Date Confirmation Began: 5/24/1990
Date Leak Stopped: 5/24/1990
Date Case Last Changed on Database: 7/11/2002
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: EBRAHIM, SOBHI F.
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 3407.16310048151594143046667 89

ARCO #1246 (Continued) **S101296061**

Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	11/28/1989
Preliminary Site Assessment Began:	5/24/1990
Pollution Characterization Began:	10/20/1992
Remediation Plan Submitted:	9/23/1993
Remedial Action Underway:	4/15/2004
Post Remedial Action Monitoring Began:	8/30/1990
Enforcement Action Date:	1/24/2001
Historical Max MTBE Date:	1/1/1965
Hist Max MTBE Conc in Groundwater:	71
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Yes
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	RICK SILVERMAN
RP Address:	4 CENTRE POINT DR.
Program:	LUST
Lat/Long:	34.0075785 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	15AUG95 VE CONFIRMATION BORINGS INDICATE CONTAMINATION EXIST@ TPH(G) 10,000 PPM; BTEX 159/866/334/1523 PPM (MILLIGRAM/L)SM-MTB INV.; 1/15/01 4TH QTR GW MON & SOIL REMED.; 3/1/01 ADDL GW ASSESSMENT; 4/13/01 1ST QTR GW MON RPT

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-07031

I59 **ARCO PRODUCTS #01246** **SWEEPS UST** **S101583142**
NW **11181 WASHINGTON BLVD** **CA FID UST** **N/A**
1/8-1/4 **CULVER CITY, CA 90232** **LOS ANGELES CO. HMS**
0.224 mi.
1183 ft. **Site 5 of 6 in cluster I**

Relative:
Lower

Actual:
52 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	7031
Number:	Not reported
Board Of Equalization:	44-000506
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-007031-000001
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL

ARCO PRODUCTS #01246 (Continued) **S101583142**

STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	5

Status:	Not reported
Comp Number:	7031
Number:	Not reported
Board Of Equalization:	44-000506
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-007031-000002
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	7031
Number:	Not reported
Board Of Equalization:	44-000506
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-007031-000003
Tank Status:	Not reported
Capacity:	4000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	7031
Number:	Not reported
Board Of Equalization:	44-000506
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-007031-000004
Tank Status:	Not reported
Capacity:	4000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	7031

ARCO PRODUCTS #01246 (Continued) **S101583142**

Number:	Not reported
Board Of Equalization:	44-000506
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-007031-000005
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	19002793
Regulated By:	UTNKI
Regulated ID:	00026561
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	0000000000
Mail To:	Not reported
Mailing Address:	17315 STUDEBAKER RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CULVER CITY 90230
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	006801-007031
Facility Type:	0
Facility Status:	Closed
Area:	2M
Permit Number:	00003661T
Permit Status:	Closed

Region:	LA
Permit Category:	T
Facility Id:	006801-037110
Facility Type:	0
Facility Status:	Closed
Area:	2M
Permit Number:	000337781
Permit Status:	Closed

I60 NNW 1/8-1/4 0.239 mi. 1261 ft. | **CENTER PAINT COMPANY**
11153 WASHINGTON BLVD
CULVER CITY, CA | **SWEEPS UST** | **S106924145**
N/A

Site 6 of 6 in cluster I

Relative: Lower

Actual: 52 ft.

SWEEPS UST:

Status:	Active
Comp Number:	12325
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

J61 NW 1/8-1/4 0.240 mi. 1267 ft. | **CULVER CITY VOLVO**
11201 WASHINGTON BLVD
CULVER CITY, CA 90230 | **RCRA-SQG**
LUST
HIST UST
FINDS
ECHO
HAZNET
HIST CORTESE | **1000421025**
CAD028077394

Site 1 of 3 in cluster J

Relative: Lower

Actual: 53 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	WESTSIDE VOLVO
Facility address:	11201 WASHINGTON BLVD CULVER CITY, CA 90230
EPA ID:	CAD028077394
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	JIM BISCH
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported

CULVER CITY VOLVO (Continued) **1000421025**

Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	11/23/1985
Site name:	WESTSIDE VOLVO
Classification:	Large Quantity Generator
Violation Status:	No violations found

LUST:

Lead Agency:	LOS ANGELES COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703287
Global Id:	T0603703287
Latitude:	34.0071065
Longitude:	-118.4131571
Status:	Completed - Case Closed
Status Date:	03/17/1993
Case Worker:	JOA
RB Case Number:	I-07149
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported

CULVER CITY VOLVO (Continued) **1000421025**

Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0603703287
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603703287
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603703287
Action Type: Other
Date: 01/25/1990
Action: Leak Discovery

Global Id: T0603703287
Action Type: Other
Date: 01/25/1990
Action: Leak Stopped

Global Id: T0603703287
Action Type: Other
Date: 04/24/1990
Action: Leak Reported

LUST:
Global Id: T0603703287
Status: Completed - Case Closed
Status Date: 03/17/1993

Global Id: T0603703287
Status: Open - Case Begin Date
Status Date: 01/03/1990

Global Id: T0603703287
Status: Open - Site Assessment
Status Date: 01/03/1990

Global Id: T0603703287
Status: Open - Site Assessment
Status Date: 01/25/1990

CULVER CITY VOLVO (Continued) **1000421025**

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	I-07149
Status:	Case Closed
Substance:	Waste Oil
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Soil
Abatement Method Used at the Site:	Not reported
Global ID:	T0603703287
W Global ID:	Not reported
Staff:	UNK
Local Agency:	19000
Cross Street:	SEPULVEDA BLVD.
Enforcement Type:	222
Date Leak Discovered:	1/25/1990
Date Leak First Reported:	4/24/1990
Date Leak Record Entered:	6/18/1990
Date Confirmation Began:	Not reported
Date Leak Stopped:	1/25/1990
Date Case Last Changed on Database:	6/30/1992
Date the Case was Closed:	3/17/1993
How Leak Discovered:	Tank Closure
How Leak Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Operator:	BISCH, JIM
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	3534.5023720613951366988413087
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	1/3/1990
Preliminary Site Assessment Began:	1/25/1990
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	1/1/1965
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	WESTSIDE IMPORTS
RP Address:	11201 WASHINGTON BLVD., W., CULVER CITY, 90230
Program:	LUST
Lat/Long:	34.0071065 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported

CULVER CITY VOLVO (Continued) **1000421025**

Assigned Name: Not reported
Summary: MTBE INVESTIGATION

HIST UST:

File Number:	000287CF
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000287CF.pdf
Region:	STATE
Facility ID:	00000064414
Facility Type:	Other
Other Type:	AUTO DEALERSHIP
Contact Name:	JIM BISCH
Telephone:	2133910445
Owner Name:	WESTSIDE IMPORTS INC
Owner Address:	11201 W WASHINGTON BLVD
Owner City,St,Zip:	CULVER CITY, CA 90230
Total Tanks:	0001

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, None

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, None

Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000000

CULVER CITY VOLVO (Continued) **1000421025**

Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

FINDS:

Registry ID: 110002639967

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

UORS (California - Used Oil Recycling System). California Integrated Waste Management Board (CIWMB) helps communities establish and promote convenient collection opportunities for used oil and used oil filters.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000421025
Registry ID: 110002639967
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002639967

HAZNET:
envid: 1000421025
Year: 2017
GEPAID: CAD028077394
Contact: TED WEINSZIEHR
Telephone: 8772488176
Mailing Name: Not reported
Mailing Address: 11201 WASHINGTON BLVD

CULVER CITY VOLVO (Continued) **1000421025**

Mailing City,St,Zip:	CULVER CITY, CA 902304621
Gen County:	Los Angeles
TSD EPA ID:	CAL000330453
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons:	0.25
Cat Decode:	Other organic solids
Method Decode:	Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Facility County:	Los Angeles

envid:	1000421025
Year:	2017
GEPAID:	CAD028077394
Contact:	TED WEINSZIEHR
Telephone:	8772488176
Mailing Name:	Not reported
Mailing Address:	11201 WASHINGTON BLVD
Mailing City,St,Zip:	CULVER CITY, CA 902304621
Gen County:	Los Angeles
TSD EPA ID:	CAL000330453
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons:	0.25
Cat Decode:	Other organic solids
Method Decode:	Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Facility County:	Los Angeles

envid:	1000421025
Year:	2016
GEPAID:	CAD028077394
Contact:	TED WEINSZIEHR
Telephone:	8772488176
Mailing Name:	Not reported
Mailing Address:	11201 WASHINGTON BLVD
Mailing City,St,Zip:	CULVER CITY, CA 902304621
Gen County:	Los Angeles
TSD EPA ID:	CAL000330453
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.125
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000421025
Year:	2016
GEPAID:	CAD028077394
Contact:	TED WEINSZIEHR
Telephone:	8772488176
Mailing Name:	Not reported
Mailing Address:	11201 WASHINGTON BLVD
Mailing City,St,Zip:	CULVER CITY, CA 902304621
Gen County:	Los Angeles

CULVER CITY VOLVO (Continued) **1000421025**

TSD EPA ID:	CAL000330453
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.125
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000421025
Year:	2012
GEPAID:	CAD028077394
Contact:	SAL GONZALES
Telephone:	3103910445
Mailing Name:	Not reported
Mailing Address:	11201 WASHINGTON BLVD
Mailing City,St,Zip:	CULVER CITY, CA 902304621
Gen County:	Los Angeles
TSD EPA ID:	CAT000613893
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.252
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
123 additional CA_HAZNET: record(s) in the EDR Site Report.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-07149

J62 **CULVER CITY VOLVO** **AST** **A100419206**
NW **11201 W WASHINGTON BLVD** **N/A**
1/8-1/4 **CULVER CITY, CA 90230**
0.240 mi.
1267 ft. **Site 2 of 3 in cluster J**

Relative:
Lower

Actual:
53 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	CULVER CITY MOTORCARS INC
Total Gallons:	Not reported
CERSID:	10300519
Facility ID:	LACoFA0028910
Business Name:	WESTSIDE VOLVO
Phone:	(310) 391-0445
Fax:	Not reported
Mailing Address:	11201 W WASHINGTON BLVD
Mailing Address City:	CULVER CITY
Mailing Address State:	CA
Mailing Address Zip Code:	90230

CULVER CITY VOLVO (Continued) **A100419206**

Operator Name:	Sal Gonzales
Operator Phone:	310-391-0445
Owner Phone:	(310) 391-0445
Owner Mail Address:	11201 W WASHINGTON BLVD
Owner State:	CA
Owner Zip Code:	90230
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAD028077394

J63 **CULVER CITY VOLVO** **SWEEPS UST** **S101583084**
NW **11201 WASHINGTON BLVD** **CA FID UST** **N/A**
1/8-1/4 **CULVER CITY, CA 90230** **LOS ANGELES CO. HMS**
0.240 mi.
1267 ft. **Site 3 of 3 in cluster J**

Relative:
Lower

Actual:
53 ft.

SWEEPS UST:

Status:	Active
Comp Number:	7149
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-007149-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	1

CA FID UST:

Facility ID:	19002571
Regulated By:	UTNKA
Regulated ID:	00034180
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8180000000
Mail To:	Not reported
Mailing Address:	11201 W WASHINGTON BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CULVER CITY
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported

CULVER CITY VOLVO (Continued) **S101583084**

Status: Active

LOS ANGELES CO. HMS:
Region: LA
Permit Category: I
Facility Id: 006916-I07149
Facility Type: 01
Facility Status: Closed
Area: 2M
Permit Number: 000010424
Permit Status: Closed

Region: LA
Permit Category: I
Facility Id: 006916-055441
Facility Type: 01
Facility Status: Permit
Area: 2M
Permit Number: 000732544
Permit Status: Permit

Region: LA
Permit Category: T
Facility Id: 006916-007149
Facility Type: 0
Facility Status: Removed
Area: 2M
Permit Number: 00001054T
Permit Status: Removed

K64 **CONOCO INC** **LUST** **S102428275**
NW **11198 WASHINGTON PLACE** **ENF** **N/A**
1/4-1/2 **CULVER CITY, CA 90232** **HIST CORTESE**
0.285 mi.
1504 ft. **Site 1 of 3 in cluster K**

Relative:
Higher
Actual:
54 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704152
Global Id: T0603704152
Latitude: 34.0087025928954
Longitude: -118.413501083851
Status: Completed - Case Closed
Status Date: 03/06/2012
Case Worker: WXT
RB Case Number: I-14314
Local Agency: LOS ANGELES COUNTY
File Location: Regional Board
Local Case Number: Not reported
Potential Media Affect: Well used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603704152
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO

CONOCO INC (Continued) **S102428275**

Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603704152
Contact Type: Regional Board Caseworker
Contact Name: WEIXING TONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: wtong@waterboards.ca.gov
Phone Number: Not reported

LUST:

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2007
Action: Request for Closure

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: REMEDIATION
Date: 07/01/1992
Action: Excavation

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 03/29/2002
Action: Site Visit / Inspection / Sampling

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/06/2012
Action: Request for Closure

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603704152

CONOCO INC (Continued) **S102428275**

Action Type: RESPONSE
Date: 03/15/2004
Action: Soil and Water Investigation Workplan

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/30/2004
Action: Well Installation Report

Global Id: T0603704152
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 10/15/2003
Action: Remedial Progress Report

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2004
Action: Remedial Progress Report

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 03/30/2004
Action: Staff Letter

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 03/31/2004

CONOCO INC (Continued) **S102428275**

Action: Other Report / Document

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2005
Action: Remedial Progress Report

Global Id: T0603704152
Action Type: RESPONSE
Date: 06/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 08/15/2002
Action: 13267 Requirement

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 07/19/1996
Action: 13267 Requirement

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 07/01/2002
Action: Staff Letter

Global Id: T0603704152
Action Type: REMEDIATION
Date: 01/01/2002
Action: Excavation

Global Id: T0603704152
Action Type: REMEDIATION
Date: 09/01/2009
Action: Soil Vapor Extraction (SVE)

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

CONOCO INC (Continued) **S102428275**

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 06/11/2002
Action: 13267 Requirement

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 03/08/2002
Action: 13267 Requirement

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2004
Action: Remedial Progress Report

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2003
Action: Remedial Progress Report

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2003
Action: Remedial Progress Report

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 05/29/2007
Action: Staff Letter

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 01/12/2007
Action: Staff Letter

Global Id: T0603704152
Action Type: RESPONSE

CONOCO INC (Continued) **S102428275**

Date: 07/30/2004
Action: Other Report / Document

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 10/15/2002
Action: Other Report / Document

Global Id: T0603704152
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 10/15/2004
Action: Remedial Progress Report

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2002
Action: Other Report / Document

Global Id: T0603704152
Action Type: RESPONSE
Date: 10/15/2002
Action: Other Report / Document

Global Id: T0603704152
Action Type: Other
Date: 09/04/1992
Action: Leak Reported

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2007
Action: Corrective Action Plan / Remedial Action Plan

CONOCO INC (Continued) **S102428275**

Global Id: T0603704152
Action Type: REMEDIATION
Date: 10/01/1993
Action: Soil Vapor Extraction (SVE)

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 04/10/2003
Action: Staff Letter

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 02/17/2004
Action: Staff Letter

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 06/07/2004
Action: Site Visit / Inspection / Sampling

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 07/15/2004
Action: Staff Letter

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 08/31/2005
Action: Staff Letter

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2005
Action: Remedial Progress Report

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 04/20/2005
Action: Staff Letter

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE

CONOCO INC (Continued) **S102428275**

Date: 12/31/2004
Action: Other Report / Document

Global Id: T0603704152
Action Type: RESPONSE
Date: 09/26/2005
Action: Soil and Water Investigation Report

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2005
Action: Remedial Progress Report

Global Id: T0603704152
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 02/03/2012
Action: Staff Letter

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 03/06/2012
Action: Closure/No Further Action Letter

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 03/06/2012
Action: Closure/No Further Action Letter

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704152
Action Type: Other
Date: 09/02/1992
Action: Leak Discovery

Global Id: T0603704152
Action Type: RESPONSE
Date: 01/15/2003
Action: Remedial Progress Report

CONOCO INC (Continued) **S102428275**

Global Id: T0603704152
Action Type: ENFORCEMENT
Date: 05/15/2006
Action: Staff Letter

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2004
Action: Remedial Progress Report

Global Id: T0603704152
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Semi-Annually

LUST:
Global Id: T0603704152
Status: Completed - Case Closed
Status Date: 03/06/2012

Global Id: T0603704152
Status: Open - Case Begin Date
Status Date: 09/02/1992

Global Id: T0603704152
Status: Open - Remediation
Status Date: 02/04/1994

Global Id: T0603704152
Status: Open - Remediation
Status Date: 03/08/2002

Global Id: T0603704152
Status: Open - Site Assessment
Status Date: 09/04/1992

Global Id: T0603704152
Status: Open - Site Assessment
Status Date: 08/23/1993

Global Id: T0603704152
Status: Open - Verification Monitoring
Status Date: 03/30/2004

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-14314
Status: Remedial action (cleanup) Underway
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Specific tank leak that has contaminated a specific well used for drinking water
Abatement Method Used at the Site: Not reported

CONOCO INC (Continued) **S102428275**

Global ID:	T0603704152	
W Global ID:	Not reported	
Staff:	WXT	
Local Agency:	19000	
Cross Street:	SEPULVEDA BLVD	
Enforcement Type:	SI	
Date Leak Discovered:	9/2/1992	
Date Leak First Reported:		9/4/1992
Date Leak Record Entered:	9/1/1992	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		8/22/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2936.99717473805873019452901 5
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		9/4/1992
Pollution Characterization Began:		8/23/1993
Remediation Plan Submitted:		2/4/1994
Remedial Action Underway:		4/16/2004
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		9/22/2000
Historical Max MTBE Date:		7/23/2002
Hist Max MTBE Conc in Groundwater:		100
Hist Max MTBE Conc in Soil:		.24
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	=	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	MARK AEBI	
RP Address:	5882 BOLSA AVE., SUITE #200	
Program:	LUST	
Lat/Long:	34.0086505 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	12/22/00 WP FOR ADDL SOIL REMED.; 2/2/01 STEP-OUT SOIL BORING DATA SUBMITTAL; 4/9/01 COMMENTS ON CIRRA TASK 11; 4/13/01 STEP-OU SOIL BORING DATA SUBMITTAL #2; 4/15/01 1ST QTR GW MON RPT 2001	

ENF:

Region:	4
Facility Id:	215475
Agency Name:	Conoco Inc
Place Type:	Facility
Place Subtype:	Not reported

CONOCO INC (Continued) **S102428275**

Facility Type:	Not reported
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.008805
Place Longitude:	-118.413951
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	I-14314
Reg Measure Id:	167574
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported

CONOCO INC (Continued) **S102428275**

Direction/Voice:	Passive
Enforcement Id(EID):	236910
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	06/19/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	06/19/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - I-14314
Description:	Notice of Violation sent 6/19/01 for overdue workplan.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	4
Facility Id:	215475
Agency Name:	Conoco Inc
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Not reported
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.008805
Place Longitude:	-118.413951
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported

CONOCO INC (Continued) **S102428275**

Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	I-14314
Reg Measure Id:	167574
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	235518
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	04/12/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	04/12/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - I-14314
Description:	Notice of Violation sent 4/12/01 for overdue technical report.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	4

CONOCO INC (Continued) **S102428275**

Facility Id:	215475
Agency Name:	Conoco Inc
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Not reported
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.008805
Place Longitude:	-118.413951
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	I-14314
Reg Measure Id:	167574
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported

CONOCO INC (Continued) **S102428275**

WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	230162
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	05/01/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	05/01/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - I-14314
Description:	Notice of Violation sent 5/1/00 for failure to comply with CAO No. 99-006.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	4
Facility Id:	215475
Agency Name:	Conoco Inc
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Not reported
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.008805
Place Longitude:	-118.413951
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported

CONOCO INC (Continued) **S102428275**

Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	I-14314
Reg Measure Id:	167574
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	229889
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	11/04/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	11/04/1999
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - I-14314
Description:	Notice of Violation sent 11/4/99 for deficient 9/16/99 & 10/16/99 progress reports.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0

CONOCO INC (Continued) **S102428275**

Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	4
Facility Id:	215475
Agency Name:	Conoco Inc
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Not reported
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.008805
Place Longitude:	-118.413951
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	I-14314
Reg Measure Id:	167574
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported

CONOCO INC (Continued) **S102428275**

WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	229841
Region:	4
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	12/17/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	12/17/1999
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - I-14314
Description:	Letter sent 12/17/99 for failure to comply with CAO No. 99-006.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	4
Facility Id:	215475
Agency Name:	Conoco Inc
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Not reported
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.008805
Place Longitude:	-118.413951
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported

CONOCO INC (Continued) **S102428275**

# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	I-14314
Reg Measure Id:	167574
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	229298
Region:	4
Order / Resolution Number:	R4-1999-0006
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	04/20/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	04/20/1999
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	CAO No. 99-006 issued 4/20/99 contains a time schedule
Description:	CAO No. 99-006 issued 4/20/99 contains a time schedule for assessment & cleanup of soil & groundwater contamination.
Program:	UST
Latest Milestone Completion Date:	Not reported

CONOCO INC (Continued) **S102428275**

# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	4
Facility Id:	215475
Agency Name:	Conoco Inc
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Not reported
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.008805
Place Longitude:	-118.413951
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	I-14314
Reg Measure Id:	167574
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported

CONOCO INC (Continued) **S102428275**

Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	229297
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	09/30/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	09/30/1999
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - I-14314
Description:	Notice of Violation sent 9/30/99 for deficient 9/16/99 progress report.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-14314

L65 **CULVER CITY UNFD SCH DIST** **RCRA-SQG** **1000430750**
ENE **4401 ELENDA** **LUST** **CAD982030868**
1/4-1/2 **CULVER CITY, CA 90230** **FINDS**
0.287 mi. **ECHO**
1518 ft. **Site 1 of 2 in cluster L**

Relative:
Higher

Actual:
64 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	CULVER CITY UNFD SCH DIST
Facility address:	4401 ELENDA CULVER CITY, CA 90230

CULVER CITY UNFD SCH DIST (Continued) **1000430750**

EPA ID:	CAD982030868
Mailing address:	4034 IRVING PL CULVER CITY, CA 90230
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CULVER CITY USD
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	District
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No

CULVER CITY UNFD SCH DIST (Continued) **1000430750**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/11/1987
Site name: CULVER CITY UNFD SCH DIST
Classification: Large Quantity Generator

Violation Status: No violations found

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-15917
Status: Case Closed
Substance: 1
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603705270
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 2/17/1996
Date Leak Record Entered: 5/1/1996
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 2/17/1996
Date the Case was Closed: 1/17/1996
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 5455.190981580910615644469294 1
Source of Cleanup Funding: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported

CULVER CITY UNFD SCH DIST (Continued) **1000430750**

Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	CULVER CITY UNIFIED SCHOOL
RP Address:	4034 IRVING PL, CULVER CITY CA 90232-2810
Program:	LUST
Lat/Long:	34.0076627 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

FINDS:

Registry ID: 110002782819

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000430750
Registry ID:	110002782819
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002782819

L66 ENE 1/4-1/2 0.287 mi. 1518 ft.

CULVER CITY UNIFIED SCHOOL
4401 ELENDA ST
CULVER CITY, CA 90230

LUST **S100933429**
HAZNET **N/A**
HIST CORTESE

Site 2 of 2 in cluster L

Relative: Higher

Actual: 64 ft.

LUST:

Lead Agency:	LOS ANGELES COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603705270
Global Id:	T0603705270
Latitude:	34.0076627
Longitude:	-118.4022429
Status:	Completed - Case Closed
Status Date:	01/17/1996
Case Worker:	JOA
RB Case Number:	R-15917
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

LUST:

Global Id:	T0603705270
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603705270
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0603705270
Action Type:	Other
Date:	02/17/1996
Action:	Leak Reported

LUST:

Global Id:	T0603705270
Status:	Completed - Case Closed
Status Date:	01/17/1996

Global Id:	T0603705270
Status:	Open - Case Begin Date
Status Date:	01/17/1996

CULVER CITY UNIFIED SCHOOL (Continued) **S100933429**

HAZNET:

envid:	S100933429
Year:	2017
GEPAID:	CAC002900095
Contact:	MIKE KORGAN
Telephone:	3108424203
Mailing Name:	Not reported
Mailing Address:	11102 LUCERNE AVENUE
Mailing City,St,Zip:	CULVER CITY, CA 90230
Gen County:	Los Angeles
TSD EPA ID:	AZC950823111
TSD County:	99
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	59.8
Cat Decode:	Asbestos containing waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

envid:	S100933429
Year:	2017
GEPAID:	CAC002900095
Contact:	MIKE KORGAN
Telephone:	3108424203
Mailing Name:	Not reported
Mailing Address:	11102 LUCERNE AVENUE
Mailing City,St,Zip:	CULVER CITY, CA 90230
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other inorganic solid waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.045
Cat Decode:	Other inorganic solid waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

envid:	S100933429
Year:	2017
GEPAID:	CAC002900095
Contact:	MIKE KORGAN
Telephone:	3108424203
Mailing Name:	Not reported
Mailing Address:	11102 LUCERNE AVENUE
Mailing City,St,Zip:	CULVER CITY, CA 90230
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.03
Cat Decode:	Other organic solids

CULVER CITY UNIFIED SCHOOL (Continued) **S100933429**

Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S100933429
Year: 2017
GEPAID: CAC002900095
Contact: MIKE KORGAN
Telephone: 3108424203
Mailing Name: Not reported
Mailing Address: 11102 LUCERNE AVENUE
Mailing City,St,Zip: CULVER CITY, CA 90230
Gen County: Los Angeles
TSD EPA ID: CAD009007626
TSD County: Los Angeles
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 34.96
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-15917

---

67 **76 STATION #252994** **LUST** **S100859736**
NE **10638 CULVER BLVD** **HIST CORTESE** **N/A**
1/4-1/2 **CULVER CITY, CA 90230** **LOS ANGELES CO. HMS**
0.300 mi.
1583 ft.

Relative: Higher
Actual: 71 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703279
Global Id: T0603703279
Latitude: 34.0141464
Longitude: -118.402075
Status: Completed - Case Closed
Status Date: 01/12/2010
Case Worker: DMB
RB Case Number: I-07101
Local Agency: LOS ANGELES COUNTY
File Location: Regional Board
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603703279
Contact Type: Regional Board Caseworker
Contact Name: DAVID M. BJOSTAD

76 STATION #252994 (Continued) **S100859736**

Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4th Street, Suite 200
City: Los Angeles
Email: dave.bjostad@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603703279
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

LUST:

Global Id: T0603703279
Action Type: RESPONSE
Date: 11/13/2006
Action: Soil and Water Investigation Report

Global Id: T0603703279
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: REMEDIATION
Date: 02/01/1995
Action: Excavation

Global Id: T0603703279
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 02/03/2009
Action: Request for Closure

Global Id: T0603703279
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603703279

76 STATION #252994 (Continued) **S100859736**

Action Type: RESPONSE
Date: 01/15/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603703279
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: ENFORCEMENT
Date: 02/08/2002
Action: Staff Letter

Global Id: T0603703279
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: ENFORCEMENT
Date: 03/07/2003
Action: Staff Letter

Global Id: T0603703279
Action Type: RESPONSE
Date: 08/31/2004
Action: Soil and Water Investigation Report

Global Id: T0603703279
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 07/15/2008

76 STATION #252994 (Continued) **S100859736**

Action:	Monitoring Report - Quarterly
Global Id:	T0603703279
Action Type:	Other
Date:	03/22/1990
Action:	Leak Discovery
Global Id:	T0603703279
Action Type:	RESPONSE
Date:	01/15/2005
Action:	Monitoring Report - Quarterly
Global Id:	T0603703279
Action Type:	RESPONSE
Date:	01/15/2004
Action:	Monitoring Report - Quarterly
Global Id:	T0603703279
Action Type:	RESPONSE
Date:	10/15/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0603703279
Action Type:	RESPONSE
Date:	01/15/2003
Action:	Monitoring Report - Quarterly
Global Id:	T0603703279
Action Type:	RESPONSE
Date:	04/15/2002
Action:	Monitoring Report - Quarterly
Global Id:	T0603703279
Action Type:	RESPONSE
Date:	07/15/2002
Action:	Monitoring Report - Quarterly
Global Id:	T0603703279
Action Type:	RESPONSE
Date:	05/08/2002
Action:	Soil and Water Investigation Report
Global Id:	T0603703279
Action Type:	RESPONSE
Date:	06/09/2003
Action:	Soil and Water Investigation Report
Global Id:	T0603703279
Action Type:	RESPONSE
Date:	07/15/2003
Action:	Monitoring Report - Quarterly
Global Id:	T0603703279
Action Type:	RESPONSE
Date:	04/15/2003
Action:	Monitoring Report - Quarterly

76 STATION #252994 (Continued) **S100859736**

Global Id: T0603703279
Action Type: Other
Date: 03/22/1990
Action: Leak Stopped

Global Id: T0603703279
Action Type: ENFORCEMENT
Date: 01/12/2010
Action: Closure/No Further Action Letter

Global Id: T0603703279
Action Type: ENFORCEMENT
Date: 12/21/2009
Action: Notification - Preclosure

Global Id: T0603703279
Action Type: Other
Date: 09/26/1991
Action: Leak Reported

Global Id: T0603703279
Action Type: REMEDIATION
Date: 02/22/1989
Action: Excavation

Global Id: T0603703279
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE

76 STATION #252994 (Continued) **S100859736**

Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703279
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

LUST:
Global Id: T0603703279
Status: Completed - Case Closed
Status Date: 01/12/2010

Global Id: T0603703279
Status: Open - Case Begin Date
Status Date: 02/22/1989

Global Id: T0603703279
Status: Open - Site Assessment
Status Date: 02/22/1989

Global Id: T0603703279
Status: Open - Site Assessment
Status Date: 03/22/1989

Global Id: T0603703279
Status: Open - Site Assessment
Status Date: 11/27/2001

Global Id: T0603703279
Status: Open - Site Assessment
Status Date: 02/20/2003

Global Id: T0603703279
Status: Open - Verification Monitoring
Status Date: 06/29/1998

Global Id: T0603703279
Status: Open - Verification Monitoring
Status Date: 12/01/2004

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-07101
Status: Pollution Characterization
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603703279
W Global ID: Not reported
Staff: TCS

76 STATION #252994 (Continued) **S100859736**

Local Agency:	19000	
Cross Street:	OVERLAND AVE	
Enforcement Type:	SEL	
Date Leak Discovered:	3/22/1990	
Date Leak First Reported:		9/26/1991
Date Leak Record Entered:	12/19/1991	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	3/22/1990	
Date Case Last Changed on Database:		9/3/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	JORGE, MARCIAL C.	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		4502.938572491286229186103172 9
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		2/22/1989
Preliminary Site Assessment Began:		3/22/1989
Pollution Characterization Began:		2/20/2003
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		6/29/1998
Enforcement Action Date:		1/1/1965
Historical Max MTBE Date:		12/23/2002
Hist Max MTBE Conc in Groundwater:		10000
Hist Max MTBE Conc in Soil:		2400
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	=	
Soil Qualifier:	=	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	ELIZABETH SEWELL	
RP Address:	3525 HYLAND AVE.	
Program:	LUST	
Lat/Long:	34.0141464 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	5/1/00 1ST QTR GW MON RPT 2000; 7/15/00 2ND QTR GW MON RPT 2000; 10/18/00 3RD QTR GW MON RPT 2000; 1/15/01 4TH QTR GW MON RPT 2000	

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-07101

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T

76 STATION #252994 (Continued) **S100859736**

Facility Id: 006869-024654
Facility Type: 0
Facility Status: Closed
Area: 2M
Permit Number: 000190106
Permit Status: Closed

K68
NW
1/4-1/2
0.308 mi.
1624 ft.

CHEVRON #9-2894, 11197 WASHINGTON PL W, CULVER CIT **LUST** **S102523308**
11197 WASHINGTON PL W **HIST CORTESE** **N/A**
CULVER CITY, CA 90232

Site 2 of 3 in cluster K

Relative:
Higher

Actual:
55 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704755
Global Id: T0603704755
Latitude: 34.0088404
Longitude: -118.4139622
Status: Completed - Case Closed
Status Date: 03/26/2004
Case Worker: WXT
RB Case Number: R-07148
Local Agency: LOS ANGELES COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Well used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603704755
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603704755
Contact Type: Regional Board Caseworker
Contact Name: WEIXING TONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: wtong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603704755
Action Type: ENFORCEMENT
Date: 03/24/2004
Action: Site Visit / Inspection / Sampling

Global Id: T0603704755
Action Type: RESPONSE

CHEVRON #9-2894, 11197 WASHINGTON PL W, CULVER CIT (Continued) **S102523308**

Date: 06/25/2004
Action: Unknown

Global Id: T0603704755
Action Type: Other
Date: 11/04/1996
Action: Leak Discovery

Global Id: T0603704755
Action Type: ENFORCEMENT
Date: 03/26/2004
Action: Closure/No Further Action Letter

Global Id: T0603704755
Action Type: ENFORCEMENT
Date: 08/15/2002
Action: 13267 Requirement

Global Id: T0603704755
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704755
Action Type: RESPONSE
Date: 07/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603704755
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603704755
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704755
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704755
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704755
Action Type: Other
Date: 11/04/1996
Action: Leak Reported

Global Id: T0603704755
Action Type: ENFORCEMENT
Date: 06/05/1997
Action: 13267 Requirement

CHEVRON #9-2894, 11197 WASHINGTON PL W, CULVER CIT (Continued) **S102523308**

Global Id: T0603704755
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

LUST:
Global Id: T0603704755
Status: Completed - Case Closed
Status Date: 03/26/2004

Global Id: T0603704755
Status: Open - Case Begin Date
Status Date: 09/17/1996

Global Id: T0603704755
Status: Open - Site Assessment
Status Date: 09/17/1996

Global Id: T0603704755
Status: Open - Site Assessment
Status Date: 06/19/1997

Global Id: T0603704755
Status: Open - Site Assessment
Status Date: 08/31/1998

Global Id: T0603704755
Status: Open - Verification Monitoring
Status Date: 02/25/2002

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-07148
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Specific tank leak that has contaminated a specific well used for drinking water
Abatement Method Used at the Site: Not reported
Global ID: T0603704755
W Global ID: Not reported
Staff: WXT
Local Agency: 19000
Cross Street: SEPULVEDA BLVD
Enforcement Type: CLOS
Date Leak Discovered: 11/4/1996
Date Leak First Reported: 11/4/1996
Date Leak Record Entered: 3/24/1997
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 7/10/2002
Date the Case was Closed: 3/26/2004
How Leak Discovered: Subsurface Monitoring

CHEVRON #9-2894, 11197 WASHINGTON PL W, CULVER CIT (Continued) **S102523308**

How Leak Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Operator:	Not reported
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	2857.4130174517349773383113058
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	9/17/1996
Preliminary Site Assessment Began:	6/19/1997
Pollution Characterization Began:	8/31/1998
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	2/25/2002
Enforcement Action Date:	1/8/2001
Historical Max MTBE Date:	5/13/1999
Hist Max MTBE Conc in Groundwater:	540
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	No
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	SERGE BAGHDIKIAN
RP Address:	570 W. CENTRAL AVE.
Program:	LUST
Lat/Long:	34.0088404 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	12/21/00 ADD'L SITE ASSESSMENT ACTIVITIES; 1/5/01 4TH QTR GW MON RPT 2000; 4/9/01 ADDENDUM TO SITE ASSESSMENT RPT; 4/13/01 1ST QTR GW MON RPT 2001

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-07148

69
NNE
1/4-1/2
0.319 mi.
1684 ft.

MGM DUMP
4001 OVERLAND AVENUE
CULVER CITY, CA 90230

SWF/LF **S102360820**
N/A

Relative:
Higher

Actual:
72 ft.

SWF/LF (SWIS):

Facility ID:	19-AA-5557
Lat/Long:	34.01637 / -118.4025
Owner Name:	Goldrich, Kest & Assoc.
Owner Telephone:	9372990
Owner Address:	Not reported
Owner Address2:	425 S. Fairfax Ave
Owner City,St,Zip:	Los Angeles, CA 900036

MGM DUMP (Continued) **S102360820**

Operational Status:	Closed
Operator:	Not reported
Operator Phone:	Not reported
Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	$0.00
Activity:	Solid Waste Disposal Site
Regulation Status:	Unpermitted
Landuse Name:	Not reported
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Annual
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	$0.00
SWIS Num:	19-AA-5557
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Not reported
Lat/Long:	34.01637 / -118.4025

LOS ANGELES CO. LF:

Site ID:	2196
Alt. Address:	Not reported
Site Contact:	Not reported
Site Contact Phone:	Not reported
Site Email:	Not reported
Site Website:	Not reported
Site Type:	Unknown
Site SWIS Number:	19-AA-5557
Beginning Operation Date:	Not reported
Ending Operation Date:	1977
Local Enforcement Agency:	Not reported
Maximun Depth Fill(Ft):	23
Permitted Capacity:	Not reported
Present Use:	Commercial; Residential
Remaining Capacity(Million):	Not reported
Status:	Closed
Waste Accepted:	Commercial
Hours of Operation:	Not reported
Disposal Area (Acre):	Not reported

Detail As Of 01/2014:

Operator Name:	MGM Grand Movie Studio
Operator Address:	Not reported
Operator City/State/Zip:	Not reported
Operator Contact:	Not reported
Operator Telephone:	Not reported

MGM DUMP (Continued) **S102360820**

Operator Email: Not reported
Owner Name: Multiple Owners (See Notes)
Owner Address: Not reported
Owner City/State/Zip: Not reported
Owner Contact: Not reported
Owner Telephone: Not reported
Owner Email: Not reported

K70 NW 1/4-1/2 0.334 mi. 1764 ft. **FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE** **LUST** **S102439899**
11203 WASHINGTON PLACE **ENF** **N/A**
CULVER CITY, CA 90230 **HIST CORTESE**
CIWQS

Site 3 of 3 in cluster K

Relative: Higher
Actual: 58 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703280
Global Id: T0603703280
Latitude: 34.0087374
Longitude: -118.4141452
Status: Completed - Case Closed
Status Date: 07/05/2016
Case Worker: WXT
RB Case Number: I-07106
Local Agency: LOS ANGELES COUNTY
File Location: Regional Board
Local Case Number: Not reported
Potential Media Affect: Well used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603703280
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603703280
Contact Type: Regional Board Caseworker
Contact Name: WEIXING TONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: wtong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 07/05/2016
Action: Closure/No Further Action Letter

Global Id: T0603703280

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Action Type: RESPONSE
Date: 04/15/2011
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2010
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 04/15/2009
Action: Staff Letter

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2005
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2005
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2007
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/31/2009

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Action: CAP/RAP - Feasibility Study Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2009
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 11/21/2008
Action: Staff Letter

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2013
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603703280
Action Type: RESPONSE
Date: 02/15/2012
Action: Well Destruction Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/16/2007
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2007
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2006
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2008
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/31/2008
Action: Remedial Progress Report

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 11/12/2009
Action: Soil and Water Investigation Workplan

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 09/26/2013
Action: Health and Safety Code Section 25296.10(c)

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2013
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2013
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2013
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2013
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2013
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 11/30/2009
Action: Staff Letter

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2006
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 08/01/2002
Action: 13267 Requirement

Global Id: T0603703280
Action Type: ENFORCEMENT

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Date: 04/10/2003
Action: Staff Letter

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 06/06/2002
Action: 13267 Requirement

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/31/2009
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2008
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 02/23/2005
Action: Soil and Water Investigation Workplan

Global Id: T0603703280
Action Type: REMEDIATION
Date: 11/15/2002
Action: Pump & Treat (P&T) Groundwater

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2007
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2011
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603703280
Action Type: RESPONSE
Date: 05/29/2009
Action: Final Remedial Action Report / Corrective Action Report

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/14/2009
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 07/01/2002
Action: Staff Letter

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2003
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/22/2003
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2006
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Date: 07/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 10/29/2007
Action: Staff Letter

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 03/20/2002
Action: 13267 Requirement

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 11/21/2011
Action: Staff Letter

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2007
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 02/23/2003
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 05/29/2009
Action: Final Remedial Action Report / Corrective Action Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2002
Action: Other Report / Document

Global Id: T0603703280
Action Type: RESPONSE
Date: 03/30/2002
Action: Remedial Progress Report

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/05/2002
Action: Interim Remedial Action Plan

Global Id: T0603703280
Action Type: RESPONSE
Date: 12/31/2002
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 11/30/2009
Action: Staff Letter

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603703280
Action Type: Other
Date: 11/01/1992
Action: Leak Reported

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2011
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Date: 01/15/2006
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 03/21/2016
Action: Well Destruction Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2008
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 03/04/2009
Action: Staff Letter

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603703280
Action Type: RESPONSE
Date: 03/08/2010
Action: Soil and Water Investigation Report

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Staff Letter

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2014
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: REMEDIATION
Date: 05/15/2002
Action: Soil Vapor Extraction (SVE)

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 06/19/1997
Action: 13267 Requirement

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/06/2011
Action: Well Destruction Workplan

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 06/01/2009
Action: Interim Remedial Action Plan

Global Id: T0603703280
Action Type: RESPONSE
Date: 03/15/2010
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/11/2013
Action: Request for Closure - Regulator Responded

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 03/17/2015
Action: Notification - Preclosure

Global Id: T0603703280
Action Type: REMEDIATION
Date: 10/01/2010
Action: Pump & Treat (P&T) Groundwater

Global Id: T0603703280
Action Type: REMEDIATION
Date: 09/01/1994
Action: Soil Vapor Extraction (SVE)

Global Id: T0603703280
Action Type: RESPONSE

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Date: 05/02/2015
Action: Correspondence

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2004
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 02/03/2010
Action: Staff Letter

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2004
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2010
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2012
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/21/2016
Action: Other Report / Document

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 10/16/2008
Action: Staff Letter

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Global Id: T0603703280
Action Type: RESPONSE
Date: 05/30/2002
Action: Interim Remedial Action Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 09/13/2002
Action: Well Installation Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: Other
Date: 11/01/1992
Action: Leak Discovery

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/20/2004
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: ENFORCEMENT
Date: 04/07/2005
Action: Staff Letter

Global Id: T0603703280
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 04/15/2009
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603703280
Action Type: RESPONSE
Date: 10/15/2009
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2009
Action: Remedial Progress Report

Global Id: T0603703280
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

LUST:
Global Id: T0603703280
Status: Completed - Case Closed
Status Date: 07/05/2016

Global Id: T0603703280
Status: Open - Case Begin Date
Status Date: 11/01/1992

Global Id: T0603703280
Status: Open - Eligible for Closure
Status Date: 07/03/2015

Global Id: T0603703280
Status: Open - Remediation
Status Date: 09/28/2001

Global Id: T0603703280
Status: Open - Remediation
Status Date: 10/24/2001

Global Id: T0603703280
Status: Open - Remediation
Status Date: 01/21/2003

Global Id: T0603703280
Status: Open - Remediation
Status Date: 04/25/2003

Global Id: T0603703280
Status: Open - Remediation
Status Date: 07/22/2003

Global Id: T0603703280
Status: Open - Remediation
Status Date: 02/23/2004

Global Id: T0603703280
Status: Open - Remediation

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Status Date: 06/01/2004

Global Id: T0603703280
Status: Open - Remediation
Status Date: 08/31/2004

Global Id: T0603703280
Status: Open - Remediation
Status Date: 10/18/2004

Global Id: T0603703280
Status: Open - Remediation
Status Date: 07/18/2005

Global Id: T0603703280
Status: Open - Remediation
Status Date: 10/17/2005

Global Id: T0603703280
Status: Open - Remediation
Status Date: 01/17/2006

Global Id: T0603703280
Status: Open - Remediation
Status Date: 04/17/2006

Global Id: T0603703280
Status: Open - Remediation
Status Date: 07/17/2006

Global Id: T0603703280
Status: Open - Remediation
Status Date: 10/17/2006

Global Id: T0603703280
Status: Open - Remediation
Status Date: 01/16/2007

Global Id: T0603703280
Status: Open - Remediation
Status Date: 04/16/2007

Global Id: T0603703280
Status: Open - Remediation
Status Date: 07/16/2007

Global Id: T0603703280
Status: Open - Remediation
Status Date: 10/16/2007

Global Id: T0603703280
Status: Open - Remediation
Status Date: 01/10/2008

Global Id: T0603703280
Status: Open - Remediation
Status Date: 04/07/2008

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Global Id: T0603703280
Status: Open - Site Assessment
Status Date: 11/01/1992

Global Id: T0603703280
Status: Open - Site Assessment
Status Date: 06/21/1995

Global Id: T0603703280
Status: Open - Site Assessment
Status Date: 08/15/1995

Global Id: T0603703280
Status: Open - Site Assessment
Status Date: 03/30/1998

Global Id: T0603703280
Status: Open - Site Assessment
Status Date: 02/23/2005

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-07106
Status: Remedial action (cleanup) Underway
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Specific tank leak that has contaminated a specific well used for drinking water
Abatement Method Used at the Site: Not reported
Global ID: T0603703280
W Global ID: Not reported
Staff: WXT
Local Agency: 19000
Cross Street: SEPULVEDA BLVD
Enforcement Type: LET
Date Leak Discovered: 11/1/1992
Date Leak First Reported: 11/1/1992
Date Leak Record Entered: 10/16/1995
Date Confirmation Began: 11/1/1992
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 9/13/2002
Date the Case was Closed: Not reported
How Leak Discovered: OM
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: UNK
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 2872.2908769975345923269555066
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: 6/21/1995
Preliminary Site Assessment Began: 8/15/1995
Pollution Characterization Began: 3/30/1998

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Remediation Plan Submitted:	9/28/2001
Remedial Action Underway:	1/21/2003
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	8/18/2000
Historical Max MTBE Date:	7/30/2002
Hist Max MTBE Conc in Groundwater:	1600
Hist Max MTBE Conc in Soil:	97
Significant Interim Remedial Action Taken:	No
GW Qualifier:	=
Soil Qualifier:	=
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	MICHAEL MAILLOUX
RP Address:	P.O. BOX 1069
Program:	LUST
Lat/Long:	34.0087374 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	DURING SITE ASSESSMENT, SOIL BORING B-47 HAD INDICATED HIGH LEVELS OF BENZENE, TPH (G) AND MTBE HOWEVER, A WELL NOT IN STALLED BECAUSE OF AUGUR PROBLEMS. SUBSTITUTE WELL MW-47A WA ; 4/6/01 EXPANDED SAMPLING WP; 4/15/01 QTRL

ENF:

Region:	4
Facility Id:	260808
Agency Name:	Chevron Environmental Management Company
Place Type:	Service/Commercial
Place Subtype:	Service/Commercial Site, NEC
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.008747
Place Longitude:	-118.414053
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	3061
SIC Desc 2:	Molded, Extruded, and Lathe-Cut Mechanical Rubber Goods
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.027
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Contaminated ground water

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Facility Waste Type 2:	Contaminated ground water
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B196800046
Reg Measure Id:	194106
Reg Measure Type:	Enrollee
Region:	4
Order #:	R4-2007-0022
Npdes# CA#:	CAG914001
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	2000
Status:	Historical
Status Date:	02/25/2011
Effective Date:	08/21/2002
Expiration/Review Date:	04/05/2012
Termination Date:	02/09/2011
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	62 - Treatment system to meet priority pollutant limit Category 1
Direction/Voice:	Passive
Enforcement Id(EID):	376647
Region:	4
Order / Resolution Number:	R4-2010-0196-M
Enforcement Action Type:	Admin Civil Liability
Effective Date:	11/09/2010
Adoption/Issuance Date:	01/20/2011
Achieve Date:	Not reported
Termination Date:	01/20/2011
ACL Issuance Date:	Not reported
EPL Issuance Date:	11/09/2010
Status:	Historical
Title:	EPL R4-2010-0196-M Chevron Environmental Management Co.
Description:	EPL No. R4-2010-0196-M issued to Chevron Environmental Management Co.on 11/09/10. 9 effluent violations. 8 MMP assessing $24,000. Response issued on 12/08/10 dismissing 3 effluent violations assessing $15,000 for 5 MMPs.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	2010-12-29
# Of Programs1:	1
Total Assessment Amount:	15000
Initial Assessed Amount:	24000
Liability $ Amount:	15000
Project $ Amount:	0

FORMER UNOCAL SERVICE STATION #3016 (CHEVRON SITE NO. 30-643 (Continued) **S102439899**

Liability $ Paid:	15000
Project $ Completed:	0
Total $ Paid/Completed Amount:	15000

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-07106

CIWQS:

Agency:	Chevron Environmental Management Company
Agency Address:	145 South State College Boulevard 4089, Brea, CA 92821-5818
Place/Project Type:	Service/Commercial Site, NEC
SIC/NAICS:	Multiple SIC
Region:	4
Program:	NPDNONMUNIPRCS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R4-2007-0022
WDID:	4B196800046
NPDES Number:	CAG914001
Adoption Date:	Not reported
Effective Date:	08/21/2002
Termination Date:	02/09/2011
Expiration/Review Date:	04/05/2012
Design Flow:	0.027
Major/Minor:	Minor
Complexity:	B
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.008747
Longitude:	-118.414053

M71 **HARNER PROPERTY** **ENVIROSTOR** **S105254730**
SW **4308 BERRYMAN AVE** **LA Co. Site Mitigation** **N/A**
1/4-1/2 **LOS ANGELES, CA 90066**
0.375 mi.
1982 ft. **Site 1 of 2 in cluster M**

Relative:
Lower

Actual:
48 ft.

ENVIROSTOR:

Facility ID:	19000033
Status:	Refer: 1248 Local Agency
Status Date:	11/29/2001
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	54
Senate:	26

HARNER PROPERTY (Continued) **S105254730**

Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 34.00124
Longitude: -118.4156
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 19000033
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LA Co. Site Mitigation:
Facility ID: Not reported
Status: Not reported
Site ID: SD0000012
Jurisdiction: County
Case ID: RO0000041
Abated: Yes
Assigned To: Don Thompson
Entered Date: 06/04/2003
Abated Date: 09/11/2003

N72 **FREDERICK SMITH PROPERTIES** **CPS-SLIC** **S106484058**
East **3535,3545 &3555 HAYDEN AVE** **N/A**
1/4-1/2 **CULVER CITY, CA**
0.408 mi.
2156 ft. **Site 1 of 2 in cluster N**

Relative:
Lower

Actual:
47 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 05/24/2001
Global Id: SL204CB2366
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.005738469494
Longitude: -118.39964134747
Case Type: Cleanup Program Site

FREDERICK SMITH PROPERTIES (Continued) **S106484058**

Case Worker:	JW
Local Agency:	Not reported
RB Case Number:	0487
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

N73 **PRUDENTIAL REALTY GROUP** **CPS-SLIC** **S103547121**
East **2500 WALNUT AVE.** **N/A**
1/4-1/2 **CULVER CITY, CA 90230**
0.408 mi.
2156 ft. **Site 2 of 2 in cluster N**

Relative:
Lower

Actual:
47 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	10/26/1995
Global Id:	SLT4301917
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.005738469494
Longitude:	-118.39964134747
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0032
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

Region:	4
Facility Status:	No further action required
SLIC:	0032
Substance:	Not reported
Staff:	Not reported

M74 **PAUL'S TRANSMISSION** **LUST** **S102435026**
SW **11526 WASHINGTON BLVD W** **N/A**
1/4-1/2 **CULVER CITY, CA 90066**
0.417 mi.
2203 ft. **Site 2 of 2 in cluster M**

Relative:
Lower

Actual:
48 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703286
Global Id:	T0603703286
Latitude:	34.0004549
Longitude:	-118.416886

PAUL'S TRANSMISSION (Continued) **S102435026**

Status: Completed - Case Closed
Status Date: 10/25/1996
Case Worker: YR
RB Case Number: I-07146
Local Agency: LOS ANGELES COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0603703286
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603703286
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603703286
Action Type: Other
Date: 05/04/1994
Action: Leak Discovery

Global Id: T0603703286
Action Type: Other
Date: 05/19/1994
Action: Leak Reported

LUST:
Global Id: T0603703286
Status: Completed - Case Closed
Status Date: 10/25/1996

Global Id: T0603703286
Status: Open - Case Begin Date
Status Date: 05/04/1994

Global Id: T0603703286
Status: Open - Site Assessment
Status Date: 06/27/1996

LUST REG 4:

PAUL'S TRANSMISSION (Continued) **S102435026**

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-07146	
Status:	Case Closed	
Substance:	Waste Oil	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603703286	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	COLLIDGE AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	5/4/1994	
Date Leak First Reported:		5/19/1994
Date Leak Record Entered:	6/7/1996	
Date Confirmation Began:	6/27/1996	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		6/4/1996
Date the Case was Closed:		10/25/1996
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Other Source	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		5444.188085298138344793046462 2
Source of Cleanup Funding:		Other Source
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	BLANK RP	
RP Address:	42-825 CABALLEROS DR, BERMUDA DUNES CA 92201	
Program:	LUST	
Lat/Long:	34.0009647 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	

PAUL'S TRANSMISSION (Continued) **S102435026**

Summary: Not reported

75
NE
1/4-1/2
0.430 mi.
2268 ft.

COMMERCIAL PROPERTY
10458 CULVER BOULEVARD
CULVER CITY, CA 90232

LUST **S116741854**
N/A

Relative:
Higher

Actual:
75 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000005177
Global Id:	T10000005177
Latitude:	34.015459
Longitude:	-118.400743
Status:	Completed - Case Closed
Status Date:	07/01/2016
Case Worker:	DMB
RB Case Number:	R-57082
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T10000005177
Contact Type:	Regional Board Caseworker
Contact Name:	DAVID M. BJOSTAD
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4th Street, Suite 200
City:	Los Angeles
Email:	dave.bjostad@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T10000005177
Contact Type:	Regional Board Caseworker
Contact Name:	MATTHEW COHEN
Organization Name:	SWRCB
Address:	1001 I Street
City:	SACRAMENTO
Email:	mcohen@waterboards.ca.gov
Phone Number:	9163415751

LUST:

Global Id:	T10000005177
Action Type:	Other
Date:	07/01/2012
Action:	Leak Discovery

Global Id:	T10000005177
Action Type:	ENFORCEMENT
Date:	07/01/2016
Action:	Closure/No Further Action Letter

Global Id:	T10000005177
Action Type:	Other

COMMERCIAL PROPERTY (Continued) **S116741854**

Date: 11/13/2012
Action: Leak Reported

Global Id: T10000005177
Action Type: RESPONSE
Date: 09/15/2014
Action: Other Report / Document

Global Id: T10000005177
Action Type: RESPONSE
Date: 11/13/2012
Action: Preliminary Site Assessment Report

Global Id: T10000005177
Action Type: ENFORCEMENT
Date: 01/05/2016
Action: Notification - Preclosure

Global Id: T10000005177
Action Type: ENFORCEMENT
Date: 08/05/2014
Action: Staff Letter

Global Id: T10000005177
Action Type: ENFORCEMENT
Date: 07/11/2014
Action: Staff Letter

Global Id: T10000005177
Action Type: RESPONSE
Date: 06/23/2015
Action: Tank Removal Report / UST Sampling Report

Global Id: T10000005177
Action Type: Other
Date: 07/01/2012
Action: Leak Began

LUST:
Global Id: T10000005177
Status: Completed - Case Closed
Status Date: 07/01/2016

Global Id: T10000005177
Status: Open - Case Begin Date
Status Date: 07/01/2012

Global Id: T10000005177
Status: Open - Inactive
Status Date: 10/01/2013

Global Id: T10000005177
Status: Open - Site Assessment
Status Date: 08/05/2014

76 East 1/2-1 0.701 mi. 3702 ft. | **O-SEAL DEVISION**
10567 JEFFERSON BOULEVARD
CULVER CITY, CA 90232 | **ENVIROSTOR HIST UST HIST CORTESE** | **S102434988 N/A**

Relative: Lower

Actual: 52 ft.

ENVIROSTOR:

Facility ID:	19300055
Status:	No Further Action
Status Date:	12/01/1985
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	0
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Chatsworth
Assembly:	54
Senate:	30
Special Program:	* Site Char & Assess Grant (CERCLA 104)
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.00623
Longitude:	-118.3933
APN:	4209029021
Past Use:	MANUFACTURING - OTHER
Potential COC:	Perchlorate 1,1,1-Trichloroethane (TCA Methyl ethyl ketone (2-Butanone
Confirmed COC:	30026-NO 30386-NO 30017-NO
Potential Description:	OTH, SOIL
Alias Name:	PARKER SEAL COMPANY
Alias Type:	Alternate Name
Alias Name:	WOLFE FRANKLIN COMPANY
Alias Type:	Alternate Name
Alias Name:	4209029021
Alias Type:	APN
Alias Name:	CAD008370645
Alias Type:	EPA Identification Number
Alias Name:	110002139971
Alias Type:	EPA (FRS #)
Alias Name:	19300055
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	10/27/1994
Comments:	DATABASE VERIFICATION PROJECT CONFIRMS NFA FOR DTSC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	12/01/1985
Comments:	CURRENTLY WORKING W/ LA PUB WK TO CLOSE AN CONCRETE SUMP-USED TO STORE WASTE SOLVENTS. PUB WK DETERMINED UNCONTAINMT OF SOILS

O-SEAL DEVISION (Continued) **S102434988**

SURROUNDING SUMP BY LAB RESULT SOURCE ACT: (PARKER)MILLING PIECE & BLNK PARTS,MOLDING RUBBER SEALS IN METAL RE- TAINERS.(DHS/ASAP INDUST SURVEY 8/1/85) (FRANKLIN)MFG ELASTOMERIC SEALS. YR OF OPER: 1958 TO PRESENT SUBMIT TO EPA PRELIM ASSESS DONE CERCLA 104

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	03/04/1982
Comments:	FACILITY IDENTIFIED L.A.CHAM OF COMM BUS DIR 1958
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HIST UST:

File Number:	00027C03
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027C03.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-07014

77 ENE 1/2-1 0.907 mi. 4789 ft. | **WESTWAY DEVELOPMENT PROPERTY**
10100 JEFFERSON BLVD
CULVER CITY, CA 90232 | **ENVIROSTOR VCP DEED EMI** | **S106827681 N/A**

Relative: Higher

Actual: 81 ft.

ENVIROSTOR:

Facility ID:	19130110
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	01/21/2014
Site Code:	300991
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	12
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jessy Fierro
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Assembly:	54
Senate:	30
Special Program:	Voluntary Cleanup Program
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.01158
Longitude:	-118.3896
APN:	4296-001-011, 4296001274
Past Use:	MANUFACTURING - PETROLEUM
Potential COC:	Methane Tetrachloroethylene (PCE TPH-diesel TPH-gas Trichloroethylene (TCE
Confirmed COC:	Methane Tetrachloroethylene (PCE TPH-diesel TPH-gas Trichloroethylene (TCE
Potential Description:	NMA
Alias Name:	HUNTER PROPERTY INVESTMENTS, LLC
Alias Type:	Alternate Name
Alias Name:	WESTWAY DEVELOPMENT COMPANY
Alias Type:	Alternate Name
Alias Name:	WESTWAY DEVELOPMENT PROPERTY
Alias Type:	Alternate Name
Alias Name:	4296-001-011
Alias Type:	APN
Alias Name:	4296001274
Alias Type:	APN
Alias Name:	110033620071
Alias Type:	EPA (FRS #)
Alias Name:	300991
Alias Type:	Project Code (Site Code)
Alias Name:	19130110
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	05/11/2004
Comments:	The VCA for the Westway Development Site has been amended to include additional sampling and risk assessment to determine whether the site can be developed for residential use.

WESTWAY DEVELOPMENT PROPERTY (Continued) **S106827681**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 02/01/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/21/2000
Comments: DTSC entered into a Voluntary Cleanup Agreement (Docket Number HSA-A 00/01-159) with Westway Development Company to provide oversight for a Preliminary Endangerment Assessment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/04/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/26/2004
Comments: After additional sampling and risk screening were performed, DTSC approved the Supplemental Report and determined that, except for the methane abatement system, No Further Action is required for the Site soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/15/2001
Comments: DTSC accepted Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 10/08/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/21/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/02/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/27/2011

WESTWAY DEVELOPMENT PROPERTY (Continued) **S106827681**

Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 19130110
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 12
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jessy Fierro
Supervisor: Allan Plaza
Division Branch: Cleanup Chatsworth
Site Code: 300991
Assembly: 54
Senate: 30
Special Programs Code: Voluntary Cleanup Program
Status: Certified O&M - Land Use Restrictions Only
Status Date: 01/21/2014
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 34.01158 / -118.3896
APN: 4296-001-011, 4296001274
Past Use: MANUFACTURING - PETROLEUM
Potential COC: 30015, 30022, 30024, 30025, 30027
Confirmed COC: 30015,30022,30024,30025,30027
Potential Description: NMA
Alias Name: HUNTER PROPERTY INVESTMENTS, LLC
Alias Type: Alternate Name
Alias Name: WESTWAY DEVELOPMENT COMPANY
Alias Type: Alternate Name
Alias Name: WESTWAY DEVELOPMENT PROPERTY
Alias Type: Alternate Name
Alias Name: 4296-001-011
Alias Type: APN
Alias Name: 4296001274
Alias Type: APN
Alias Name: 110033620071
Alias Type: EPA (FRS #)
Alias Name: 300991
Alias Type: Project Code (Site Code)
Alias Name: 19130110
Alias Type: Envirostor ID Number

Completed Info:

WESTWAY DEVELOPMENT PROPERTY (Continued) **S106827681**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 05/11/2004
Comments: The VCA for the Westway Development Site has been amended to include additional sampling and risk assessment to determine whether the site can be developed for residential use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 02/01/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/21/2000
Comments: DTSC entered into a Voluntary Cleanup Agreement (Docket Number HSA-A 00/01-159) with Westway Development Company to provide oversight for a Preliminary Endangerment Assessment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/04/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/26/2004
Comments: After additional sampling and risk screening were performed, DTSC approved the Supplemental Report and determined that, except for the methane abatement system, No Further Action is required for the Site soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/15/2001
Comments: DTSC accepted Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 10/08/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/21/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

WESTWAY DEVELOPMENT PROPERTY (Continued) **S106827681**

Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/02/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/27/2011
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Envirostor ID: 19130110
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

Envirostor ID: 19130110
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

EMI:
Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 23310
Air District Name: SC
SIC Code: 1311
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0

WESTWAY DEVELOPMENT PROPERTY (Continued) **S106827681**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	23310
Air District Name:	SC
SIC Code:	1311
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

78
SW
1/2-1
0.920 mi.
4856 ft.

THE HELP GROUP **ENVIROSTOR** **S118756561**
12095-12175 W. WASHINGTON BLVD. **N/A**
CULVER CITY, CA 90230

Relative:
Lower

Actual:
45 ft.

ENVIROSTOR:

Facility ID:	19800038
Status:	No Action Required
Status Date:	03/22/2000
Site Code:	300834
Site Type:	Calmortgage
Site Type Detailed:	Calmortgage
Acres:	0.25
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Sandra Karinen
Supervisor:	William Beckman
Division Branch:	Cleanup Sacramento
Assembly:	54
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	CalMortgage
Latitude:	33.99744
Longitude:	-118.4240
APN:	NONE SPECIFIED
Past Use:	NONE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	300834
Alias Type:	Project Code (Site Code)
Alias Name:	19800038
Alias Type:	Envirostor ID Number

THE HELP GROUP (Continued) **S118756561**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	03/22/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CULVER CITY	S106797594	CULVER CITY DOG PARK	JEFFERSON + DUGUESNE AVE.	90232	ENVIROSTOR

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/28/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 9

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 43

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/28/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/28/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/08/2018
Number of Days to Update: 26

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 21

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/15/2018
Number of Days to Update: 20

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/18/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/18/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/15/2018
Number of Days to Update: 33

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 09/28/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/02/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 10/01/2018
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/02/2018
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 51

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/08/2018
Number of Days to Update: 26

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/12/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/12/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/31/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/09/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 43

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018
Date Data Arrived at EDR: 10/11/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 57

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/11/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/11/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/03/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/03/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 30

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 21

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 63

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 27

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/30/2018
Date Data Arrived at EDR: 09/27/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/19/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 25

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 20

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/09/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 28

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 28

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/15/2018
Number of Days to Update: 33

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/19/2018
Number of Days to Update: 29

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/14/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/12/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

CERS: CalEPA Regulated Site Portal Data
The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/02/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/04/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 23

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 27

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/31/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/11/2018
Number of Days to Update: 21

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 08/16/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 8

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/18/2018
Number of Days to Update: 13

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 27

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/22/2018
Number of Days to Update: 40

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 11/02/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 37

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/21/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 15

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 22

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/20/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 35

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/16/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 13

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/16/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 15

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/27/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 01/09/2019
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 07/18/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 15

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 12/06/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 11/01/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 15

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/27/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/06/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/06/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/06/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 27

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 4

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/05/2018
Number of Days to Update: 24

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/03/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 30

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 31

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 07/27/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 41

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 41

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/15/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 28

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 42

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/17/2018
Number of Days to Update: 27

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/16/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 10/17/2018
Number of Days to Update: 43

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 10

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 21

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 8

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 36

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 09/13/2018
Date Data Arrived at EDR: 09/14/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 5

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 36

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 36

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/04/2018
Number of Days to Update: 22

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/19/2018
Date Made Active in Reports: 11/05/2018
Number of Days to Update: 17

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 7

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/04/2018
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/01/2018
Date Data Arrived at EDR: 10/31/2018
Date Made Active in Reports: 12/20/2018
Number of Days to Update: 50

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/31/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/07/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CULVER BOULEVARD REALIGNMENT/URBAN STORMWATER
4246 SEPULVEDA BOULEVARD
CULVER CITY, CA 90230

TARGET PROPERTY COORDINATES

Latitude (North):	34.005156 - 34˚ 0' 18.56''
Longitude (West):	118.410166 - 118˚ 24' 36.60''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	369774.2
UTM Y (Meters):	3763429.5
Elevation:	54 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630733 BEVERLY HILLS, CA
Version Date:	2012
South Map:	5640438 VENICE, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

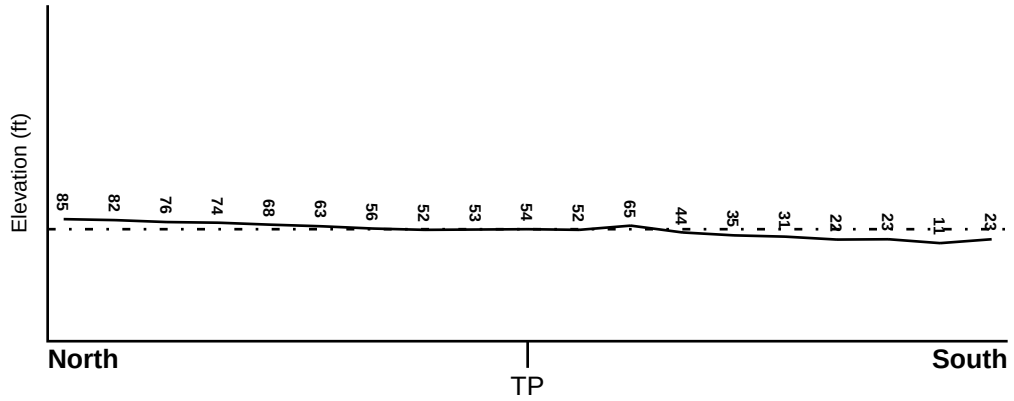
TOPOGRAPHIC INFORMATION

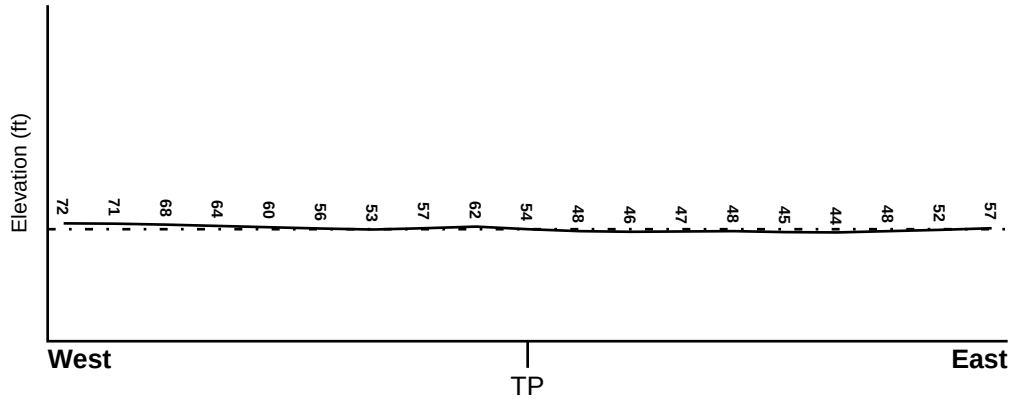
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

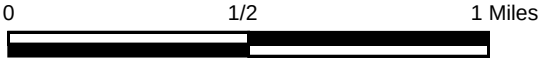
General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 54 ft.



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1595F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1760F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BEVERLY HILLS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/2 - 1 Mile SSW
Site Name:	TRANSACTION COMPANIES LIMITED
Site EPA ID Number:	CAD983567314
Groundwater Flow Direction:	Southwest
Measured Depth to Water:	33 feet.
Hydraulic Connection:	The unsaturated zone consists of silty clay and sandy silt. The uppermost aquifer at the site is perched.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/8 - 1/4 Mile NW	SSW
2	1/4 - 1/2 Mile WSW	Not Reported
1G	1/8 - 1/4 Mile NW	SSW
2G	1/4 - 1/2 Mile WSW	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Surficial Soil Types: loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Shallow Soil Types: fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types: stratified
clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	CADW60000036109	1/2 - 1 Mile NW
A4	CADW60000036046	1/2 - 1 Mile NW
B5	CADW60000036044	1/2 - 1 Mile NW
B6	CADW60000036045	1/2 - 1 Mile NW
C7	2996	1/2 - 1 Mile NNW
C8	3001	1/2 - 1 Mile NNW
C9	3000	1/2 - 1 Mile NNW
C10	2999	1/2 - 1 Mile NNW
C11	3004	1/2 - 1 Mile NNW
C12	3003	1/2 - 1 Mile NNW
C13	3002	1/2 - 1 Mile NNW
C14	2998	1/2 - 1 Mile NNW
C15	22700	1/2 - 1 Mile NNW
C16	22701	1/2 - 1 Mile NNW
D17	CADW60000036108	1/2 - 1 Mile NW
D18	CADW60000036088	1/2 - 1 Mile NW
D19	CADW60000036087	1/2 - 1 Mile NW
20	3005	1/2 - 1 Mile NNW
E21	CADW60000036048	1/2 - 1 Mile NW
E22	CADW60000036047	1/2 - 1 Mile NW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

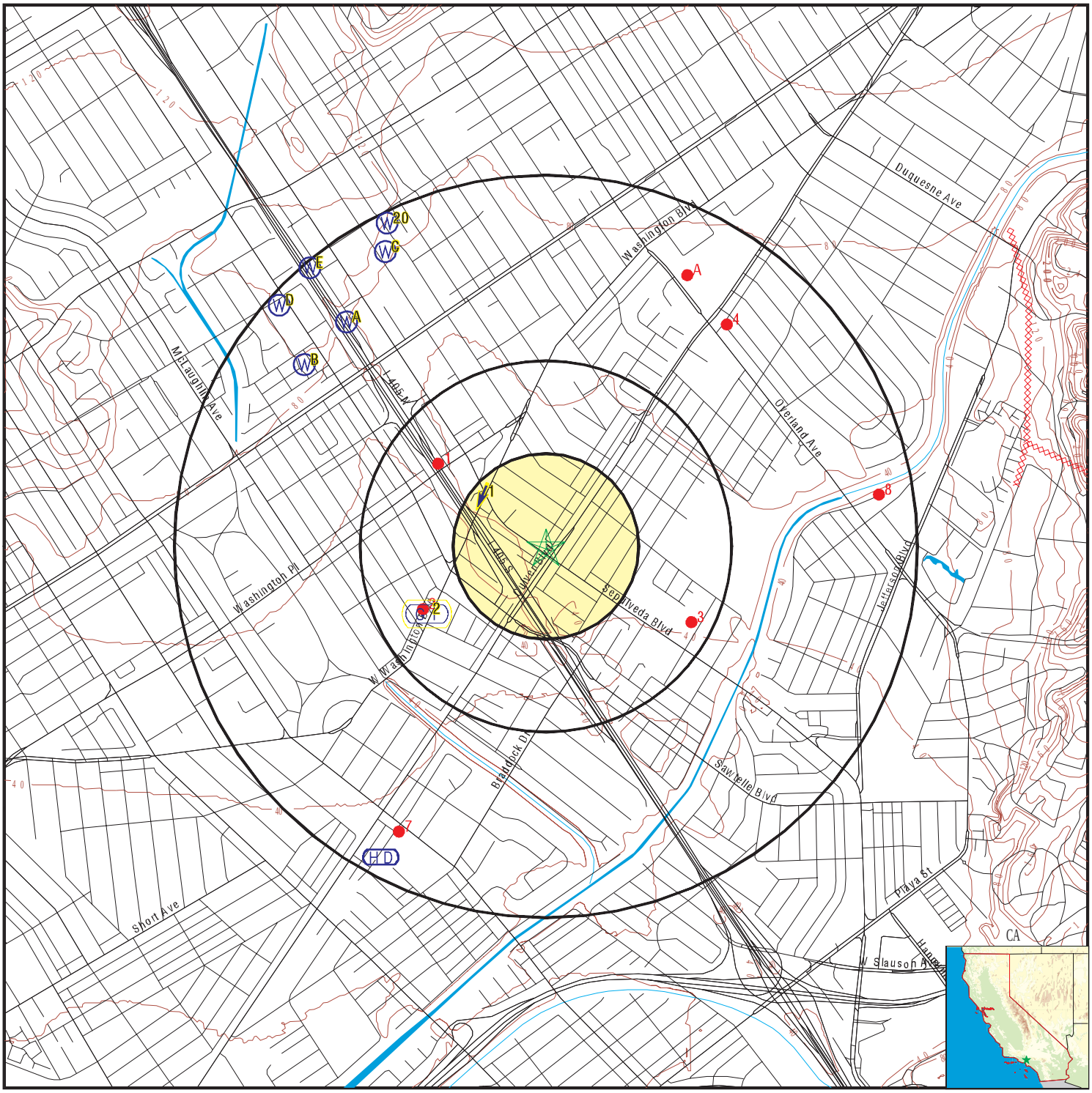
MAP ID	WELL ID	LOCATION FROM TP

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG11000213985	1/4 - 1/2 Mile NW
2	CAOG11000204891	1/4 - 1/2 Mile WSW
3	CAOG11000204639	1/4 - 1/2 Mile ESE
4	CAOG11000206926	1/2 - 1 Mile NE
A5	CAOG11000206928	1/2 - 1 Mile NNE
A6	CAOG11000206927	1/2 - 1 Mile NNE
7	CAOG11000205027	1/2 - 1 Mile SSW
8	CAOG11000206257	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 5530785.2s



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME:	Culver Boulevard Realignment/Urban Stormwater	CLIENT:	Tetra Tech, Inc.
ADDRESS:	4246 Sepulveda Boulevard CULVER CITY CA 90230	CONTACT:	Jim.steele
		INQUIRY #:	5530785.2s
LAT/LONG:	34.005156 / 118.410166	DATE:	January 10, 2019 2:20 pm

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 **NW** **1/8 - 1/4 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	I-07028 SSW 57.32 58.47 Not Reported 07/30/1998	**AQUIFLOW**	**70463**
2 **WSW** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	900570061 Not Reported 8.37 12 Not Reported 08/07/1996	**AQUIFLOW**	**55208**

A3
NW
1/2 - 1 Mile
Higher

CA WELLS **CADW60000036109**

Objectid:	36109	Latitude:	34.013917
Longitude:	-118.419497	Site code:	340161N1184263W006
State well numbe:	Not Reported	Local well name:	'RMW-12'
Well use id:	1	Well use descrip:	Observation
County id:	19	County name:	Los Angeles
Basin code:	'4-11.01'	Basin desc:	Santa Monica
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000036109		

A4
NW
1/2 - 1 Mile
Higher

CA WELLS **CADW60000036046**

Objectid:	36046	Latitude:	34.013938
Longitude:	-118.419527	Site code:	340161N1184263W007
State well numbe:	Not Reported	Local well name:	'RMW-11'
Well use id:	1	Well use descrip:	Observation
County id:	19	County name:	Los Angeles
Basin code:	'4-11.01'	Basin desc:	Santa Monica
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000036046		

B5
NW
1/2 - 1 Mile
Higher

CA WELLS **CADW60000036044**

Objectid:	36044	Latitude:	34.012269
Longitude:	-118.42147	Site code:	340161N1184263W004
State well numbe:	Not Reported	Local well name:	'RMW-57'
Well use id:	1	Well use descrip:	Observation
County id:	19	County name:	Los Angeles
Basin code:	'4-11.01'	Basin desc:	Santa Monica
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000036044		

Map ID Direction Distance Elevation	Database	EDR ID Number
B6 **NW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADW60000036045**

Objectid:	36045	Latitude:	34.012252
Longitude:	-118.421515	Site code:	340161N1184263W005
State well numbe:	Not Reported	Local well name:	'RMW-56'
Well use id:	1	Well use descrip:	Observation
County id:	19	County name:	Los Angeles
Basin code:	'4-11.01'	Basin desc:	Santa Monica
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000036045		

C7 **NNW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**2996**

Seq:	2996	Prim sta c:	02S/15W-11A01 S
Frds no:	1910146010	County:	19
District:	07	User id:	4TH
System no:	1910146	Water type:	G
Source nam:	CHARNOCK WELL 18	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340058.0	Longitude:	1182503.0
Precision:	3	Status:	AR
Comment 1:	CORNER OF WESTMINISTER & BUTLER, L.A. CA		
Comment 2:	Not Reported	Comment 3:	Not Reported
Comment 4:	Not Reported	Comment 5:	Not Reported
Comment 6:	Not Reported	Comment 7:	Not Reported
System no:	1910146	System nam:	SANTA MONICA-CITY, WATER DIVISION
Hqname:	Not Reported	Address:	1212 FIFTH ST., 3RD FLOOR
City:	SANTA MONICA	State:	CA
Zip:	90401	Zip ext:	Not Reported
Pop serv:	86905	Connection:	15905
Area serve:	SANTA MONICA		
Sample date:	05-MAR-18	Finding:	0.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAR-18	Finding:	1.1
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-MAR-18	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-MAR-18	Finding:	915.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-MAR-18	Finding:	43.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	05-FEB-18	Finding:	0.9

Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-FEB-18	Finding:	52.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	05-FEB-18	Finding:	749.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-JAN-18	Finding:	50.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	02-JAN-18	Finding:	900.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-JAN-18	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-17	Finding:	880.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	04-DEC-17	Finding:	0.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-17	Finding:	47.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	06-NOV-17	Finding:	957.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-NOV-17	Finding:	0.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-NOV-17	Finding:	48.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	02-OCT-17	Finding:	773.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-OCT-17	Finding:	48.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	02-OCT-17	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-17	Finding:	812.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	05-SEP-17	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-17	Finding:	49.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-AUG-17	Finding:	0.71
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-AUG-17	Finding:	947.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-AUG-17	Finding:	48.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JUL-17	Finding:	780.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JUL-17	Finding:	49.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JUL-17	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JUN-17	Finding:	834.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-JUN-17	Finding:	0.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JUN-17	Finding:	50.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-MAY-17	Finding:	779.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-MAY-17	Finding:	47.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-MAY-17	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-APR-17	Finding:	837.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-APR-17	Finding:	0.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	24-APR-17	Finding:	42.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-MAR-17	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-MAR-17	Finding:	773.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-MAR-17	Finding:	44.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-FEB-17	Finding:	700.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-FEB-17	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-17	Finding:	276.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-JAN-17	Finding:	0.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-JAN-17	Finding:	48.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-JAN-17	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JAN-17	Finding:	693.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-DEC-16	Finding:	857.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-DEC-16	Finding:	0.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-DEC-16	Finding:	47.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-NOV-16	Finding:	0.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	28-NOV-16	Finding:	844.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-NOV-16	Finding:	49.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-OCT-16	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-OCT-16	Finding:	49.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-OCT-16	Finding:	923.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-SEP-16	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-SEP-16	Finding:	1080.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-SEP-16	Finding:	49.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-AUG-16	Finding:	1380.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-AUG-16	Finding:	48.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-AUG-16	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-AUG-16	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUL-16	Finding:	710.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JUL-16	Finding:	0.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUL-16	Finding:	1.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUL-16	Finding:	52.2
Chemical:	MANGANESE	Report units:	UG/L

Dlr:	20.		
Sample date:	27-JUN-16	Finding:	762.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-JUN-16	Finding:	0.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JUN-16	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JUN-16	Finding:	53.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-MAY-16	Finding:	739.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-MAY-16	Finding:	53.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-MAY-16	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-APR-16	Finding:	830.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-APR-16	Finding:	57.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-APR-16	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAR-16	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAR-16	Finding:	900.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-MAR-16	Finding:	47.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-FEB-16	Finding:	0.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-16	Finding:	50.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	22-FEB-16	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-FEB-16	Finding:	795.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JAN-16	Finding:	638.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JAN-16	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JAN-16	Finding:	59.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-DEC-15	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-DEC-15	Finding:	1570.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-DEC-15	Finding:	52.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	30-NOV-15	Finding:	855.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	30-NOV-15	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-NOV-15	Finding:	50.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-OCT-15	Finding:	1030.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-OCT-15	Finding:	0.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-OCT-15	Finding:	53.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-SEP-15	Finding:	954.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-SEP-15	Finding:	50.1
Chemical:	MANGANESE	Report units:	UG/L

Dlr:	20.		
Sample date:	28-SEP-15	Finding:	0.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	886.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-AUG-15	Finding:	0.66
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	0.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	52.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-JUL-15	Finding:	754.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-JUL-15	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JUL-15	Finding:	51.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-JUN-15	Finding:	800.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-JUN-15	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JUN-15	Finding:	46.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-MAY-15	Finding:	849.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-MAY-15	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAY-15	Finding:	46.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-APR-15	Finding:	755.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	27-APR-15	Finding:	0.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-APR-15	Finding:	47.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-MAR-15	Finding:	835.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-MAR-15	Finding:	49.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-MAR-15	Finding:	0.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	19.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	6.8
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	23-FEB-15	Finding:	7.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	351.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	428.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	541.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	133.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	50.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	79.2
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	3.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	64.2
Chemical:	CHLORIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	23-FEB-15	Finding:	245.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	0.3
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	23-FEB-15	Finding:	71.6
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	23-FEB-15	Finding:	710.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-FEB-15	Finding:	45.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-FEB-15	Finding:	10.9
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	789.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	1160.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	26-JAN-15	Finding:	0.62
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JAN-15	Finding:	0.51
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JAN-15	Finding:	46.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-JAN-15	Finding:	945.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-DEC-14	Finding:	801.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-DEC-14	Finding:	51.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	24-NOV-14	Finding:	0.52
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-NOV-14	Finding:	55.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-NOV-14	Finding:	802.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-OCT-14	Finding:	0.52
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-OCT-14	Finding:	51.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-OCT-14	Finding:	920.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-SEP-14	Finding:	858.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-SEP-14	Finding:	47.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-SEP-14	Finding:	0.59
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-AUG-14	Finding:	804.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-AUG-14	Finding:	51.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-JUL-14	Finding:	52.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-JUL-14	Finding:	1000.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-JUN-14	Finding:	901.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-JUN-14	Finding:	52.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-JUN-14	Finding:	0.51
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	27-MAY-14	Finding:	1030.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-MAY-14	Finding:	54.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-MAY-14	Finding:	0.57
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-APR-14	Finding:	51.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-APR-14	Finding:	835.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-MAR-14	Finding:	962.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-MAR-14	Finding:	0.64
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAR-14	Finding:	0.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAR-14	Finding:	50.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-FEB-14	Finding:	46.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-FEB-14	Finding:	621.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-FEB-14	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JAN-14	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JAN-14	Finding:	52.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-JAN-14	Finding:	951.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	23-DEC-13	Finding:	796.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-DEC-13	Finding:	53.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-DEC-13	Finding:	0.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-NOV-13	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-NOV-13	Finding:	51.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-NOV-13	Finding:	927.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-OCT-13	Finding:	892.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-OCT-13	Finding:	47.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-OCT-13	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-SEP-13	Finding:	51.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-SEP-13	Finding:	1050.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-SEP-13	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	834.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-AUG-13	Finding:	0.57
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-AUG-13	Finding:	0.4
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-AUG-13	Finding:	0.51
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	1.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-AUG-13	Finding:	0.28
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-AUG-13	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	48.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-AUG-13	Finding:	0.911
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JUL-13	Finding:	50.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-JUL-13	Finding:	880.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JUN-13	Finding:	0.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JUN-13	Finding:	48.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JUN-13	Finding:	833.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-MAY-13	Finding:	53.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-MAY-13	Finding:	978.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-APR-13	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-MAR-13	Finding:	890.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-MAR-13	Finding:	46.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	25-FEB-13	Finding:	767.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-FEB-13	Finding:	55.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-JAN-13	Finding:	39.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-JAN-13	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JAN-13	Finding:	955.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-DEC-12	Finding:	1100.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-DEC-12	Finding:	54.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-NOV-12	Finding:	56.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-NOV-12	Finding:	1060.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-OCT-12	Finding:	51.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-OCT-12	Finding:	982.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-SEP-12	Finding:	54.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-SEP-12	Finding:	1560.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-AUG-12	Finding:	7.13
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	3.56
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	27-AUG-12	Finding:	819.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	27-AUG-12	Finding:	54.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-AUG-12	Finding:	1080.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-AUG-12	Finding:	0.26
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	27-AUG-12	Finding:	233.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	61.4
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	2.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	73.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	49.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	125.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	532.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	393.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	322.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	1205.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	23-JUL-12	Finding:	1040.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	23-JUL-12	Finding:	52.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-JUN-12	Finding:	1010.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JUN-12	Finding:	49.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	29-MAY-12	Finding:	864.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	29-MAY-12	Finding:	45.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-APR-12	Finding:	1060.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-APR-12	Finding:	45.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-MAR-12	Finding:	911.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-MAR-12	Finding:	6.6
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		
Sample date:	26-MAR-12	Finding:	49.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	05-MAR-12	Finding:	16.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	27-FEB-12	Finding:	77.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-FEB-12	Finding:	1362.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JAN-12	Finding:	705.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JAN-12	Finding:	50.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JAN-12	Finding:	63.4
Chemical:	BARIUM	Report units:	UG/L

Dlr: 100.

C8
NNW
1/2 - 1 Mile
Higher

CA WELLS 3001

Seq:	3001	Prim sta c:	02S/15W-11C14 S
Frds no:	1910146004	County:	19
District:	07	User id:	4TH
System no:	1910146	Water type:	G
Source nam:	CHARNOCK WELL 12 - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340100.0	Longitude:	1182500.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910146	System nam:	SANTA MONICA-CITY, WATER DIVISION
Hqname:	Not Reported	Address:	1212 FIFTH ST., 3RD FLOOR
City:	SANTA MONICA	State:	CA
Zip:	90401	Zip ext:	Not Reported
Pop serv:	86905	Connection:	15905
Area serve:	SANTA MONICA		

C9
NNW
1/2 - 1 Mile
Higher

CA WELLS 3000

Seq:	3000	Prim sta c:	02S/15W-11C09 S
Frds no:	1910030003	County:	19
District:	15	User id:	MET
System no:	1910030	Water type:	G
Source nam:	CHARNOCK WELL 09 - TREATED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340100.0	Longitude:	1182500.0
Precision:	5	Status:	AT
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910030	System nam:	SCWC - CULVER CITY
Hqname:	SOUTHERN CALIF WATER CO	Address:	12035 Burke Street, Suite 1
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	36600	Connection:	9193
Area serve:	CULVER CITY		

C10
NNW
1/2 - 1 Mile
Higher

CA WELLS 2999

Seq:	2999	Prim sta c:	02S/15W-11C08 S
Frds no:	1910030002	County:	19
District:	15	User id:	MET
System no:	1910030	Water type:	G

Source nam:	CHARNOCK WELL 08 - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340100.0	Longitude:	1182500.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910030	System nam:	SCWC - CULVER CITY
Hqname:	SOUTHERN CALIF WATER CO	Address:	12035 Burke Street, Suite 1
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	36600	Connection:	9193
Area serve:	CULVER CITY		

C11
NNW
1/2 - 1 Mile
Higher

CA WELLS 3004

Seq:	3004	Prim sta c:	02S/15W-11C18 S
Frds no:	1910146006	County:	19
District:	07	User id:	4TH
System no:	1910146	Water type:	G
Source nam:	CHARNOCK WELL 14 - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340100.0	Longitude:	1182500.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910146	System nam:	SANTA MONICA-CITY, WATER DIVISION
Hqname:	Not Reported	Address:	1212 FIFTH ST., 3RD FLOOR
City:	SANTA MONICA	State:	CA
Zip:	90401	Zip ext:	Not Reported
Pop serv:	86905	Connection:	15905
Area serve:	SANTA MONICA		

C12
NNW
1/2 - 1 Mile
Higher

CA WELLS 3003

Seq:	3003	Prim sta c:	02S/15W-11C17 S
Frds no:	1910146005	County:	19
District:	07	User id:	4TH
System no:	1910146	Water type:	G
Source nam:	CHARNOCK WELL 13	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340100.0	Longitude:	1182500.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910146	System nam:	SANTA MONICA-CITY, WATER DIVISION
Hqname:	Not Reported	Address:	1212 FIFTH ST., 3RD FLOOR
City:	SANTA MONICA	State:	CA
Zip:	90401	Zip ext:	Not Reported

Pop serv:	86905	Connection:	15905
Area serve:	SANTA MONICA		
Sample date:	06-NOV-17	Finding:	58.5
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-NOV-17	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-NOV-17	Finding:	6.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-OCT-17	Finding:	47.6
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-OCT-17	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-OCT-17	Finding:	7.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-17	Finding:	68.5
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-SEP-17	Finding:	1.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-17	Finding:	6.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-AUG-17	Finding:	373.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-AUG-17	Finding:	5.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-AUG-17	Finding:	1.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-AUG-17	Finding:	4.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-AUG-17	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JUL-17	Finding:	2.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	24-JUL-17	Finding:	7.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JUL-17	Finding:	39.7
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-JUN-17	Finding:	75.6
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-JUN-17	Finding:	2.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JUN-17	Finding:	8.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-MAY-17	Finding:	45.2
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-MAY-17	Finding:	0.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-MAY-17	Finding:	3.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-MAY-17	Finding:	11.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-APR-17	Finding:	65.6
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-APR-17	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-APR-17	Finding:	2.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-APR-17	Finding:	9.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-APR-17	Finding:	93.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-MAR-17	Finding:	10.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-MAR-17	Finding:	54.8
Chemical:	IRON	Report units:	UG/L

Dlr:	100.		
Sample date:	27-MAR-17	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-MAR-17	Finding:	3.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-17	Finding:	64.8
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-FEB-17	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-17	Finding:	2.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-17	Finding:	8.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JAN-17	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JAN-17	Finding:	2.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JAN-17	Finding:	8.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JAN-17	Finding:	1.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-JAN-17	Finding:	68.6
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-DEC-16	Finding:	139.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-DEC-16	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-DEC-16	Finding:	5.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-NOV-16	Finding:	85.3
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	28-NOV-16	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-NOV-16	Finding:	5.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-OCT-16	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-OCT-16	Finding:	5.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-OCT-16	Finding:	146.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-SEP-16	Finding:	98.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-SEP-16	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-SEP-16	Finding:	5.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-AUG-16	Finding:	130.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-AUG-16	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-AUG-16	Finding:	4.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-AUG-16	Finding:	8.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	22-AUG-16	Finding:	0.26
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-AUG-16	Finding:	7.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-AUG-16	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-AUG-16	Finding:	4.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	22-AUG-16	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	56.5
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JUL-16	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUL-16	Finding:	4.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JUN-16	Finding:	65.6
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-JUN-16	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JUN-16	Finding:	4.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-16	Finding:	7.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-16	Finding:	119.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-MAY-16	Finding:	2.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-APR-16	Finding:	98.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-APR-16	Finding:	2.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-APR-16	Finding:	6.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAR-16	Finding:	226.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-MAR-16	Finding:	2.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	28-MAR-16	Finding:	5.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAR-16	Finding:	96.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-FEB-16	Finding:	1.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-16	Finding:	111.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-FEB-16	Finding:	2.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-FEB-16	Finding:	5.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JAN-16	Finding:	114.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JAN-16	Finding:	2.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JAN-16	Finding:	5.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-DEC-15	Finding:	121.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-DEC-15	Finding:	95.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-DEC-15	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-DEC-15	Finding:	2.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-DEC-15	Finding:	6.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-NOV-15	Finding:	170.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	30-NOV-15	Finding:	2.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	30-NOV-15	Finding:	6.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-NOV-15	Finding:	92.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-OCT-15	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-OCT-15	Finding:	5.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-OCT-15	Finding:	170.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-OCT-15	Finding:	93.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-SEP-15	Finding:	181.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-SEP-15	Finding:	87.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-SEP-15	Finding:	1.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-SEP-15	Finding:	4.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	85.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-AUG-15	Finding:	136.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-AUG-15	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	4.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	24-AUG-15	Finding:	4.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JUL-15	Finding:	160.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-JUL-15	Finding:	83.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-JUL-15	Finding:	1.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JUL-15	Finding:	5.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JUL-15	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JUN-15	Finding:	117.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-JUN-15	Finding:	76.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-JUN-15	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JUN-15	Finding:	4.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JUN-15	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAY-15	Finding:	144.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-MAY-15	Finding:	75.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-MAY-15	Finding:	2.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAY-15	Finding:	5.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAY-15	Finding:	0.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	27-APR-15	Finding:	136.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-APR-15	Finding:	77.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-APR-15	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-APR-15	Finding:	5.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-APR-15	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAR-15	Finding:	164.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-MAR-15	Finding:	75.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-MAR-15	Finding:	2.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAR-15	Finding:	5.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAR-15	Finding:	0.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	1412.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	170.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-FEB-15	Finding:	323.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	394.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	621.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	23-FEB-15	Finding:	147.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	56.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	105.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	3.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	160.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	244.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	0.33
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	23-FEB-15	Finding:	62.8
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	23-FEB-15	Finding:	264.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-FEB-15	Finding:	69.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-FEB-15	Finding:	6.2
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	3.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	23-FEB-15	Finding:	0.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	5.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	969.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	23-FEB-15	Finding:	7.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-FEB-15	Finding:	0.68
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	23-FEB-15	Finding:	7.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	26-JAN-15	Finding:	138.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-JAN-15	Finding:	71.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-JAN-15	Finding:	5.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JAN-15	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JAN-15	Finding:	0.73
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-DEC-14	Finding:	3.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-DEC-14	Finding:	1.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-DEC-14	Finding:	82.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-DEC-14	Finding:	194.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-NOV-14	Finding:	4.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-NOV-14	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-NOV-14	Finding:	0.64
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	24-NOV-14	Finding:	85.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-NOV-14	Finding:	196.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-OCT-14	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-OCT-14	Finding:	0.67
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-OCT-14	Finding:	77.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-OCT-14	Finding:	134.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-OCT-14	Finding:	4.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-14	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-14	Finding:	4.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-14	Finding:	0.71
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-14	Finding:	76.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-SEP-14	Finding:	159.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-AUG-14	Finding:	150.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-AUG-14	Finding:	74.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-AUG-14	Finding:	0.56
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-AUG-14	Finding:	1.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	25-AUG-14	Finding:	3.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-14	Finding:	3.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-14	Finding:	1.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-14	Finding:	0.58
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-14	Finding:	74.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-JUL-14	Finding:	175.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-JUN-14	Finding:	3.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUN-14	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUN-14	Finding:	0.61
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUN-14	Finding:	165.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-JUN-14	Finding:	73.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-MAY-14	Finding:	220.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-MAY-14	Finding:	0.56
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	27-MAY-14	Finding:	3.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-MAY-14	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	27-MAY-14	Finding:	0.67
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-MAY-14	Finding:	75.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-APR-14	Finding:	2.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-APR-14	Finding:	66.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-APR-14	Finding:	0.61
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-APR-14	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-APR-14	Finding:	154.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-MAR-14	Finding:	67.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-MAR-14	Finding:	224.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-MAR-14	Finding:	0.62
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAR-14	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAR-14	Finding:	4.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-FEB-14	Finding:	3.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-FEB-14	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-FEB-14	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-FEB-14	Finding:	58.
Chemical:	MANGANESE	Report units:	UG/L

Dlr:	20.		
Sample date:	24-FEB-14	Finding:	128.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-JAN-14	Finding:	63.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-JAN-14	Finding:	9.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-JAN-14	Finding:	3.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JAN-14	Finding:	152.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-JAN-14	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JAN-14	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-DEC-13	Finding:	1.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-DEC-13	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-DEC-13	Finding:	62.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-DEC-13	Finding:	126.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-DEC-13	Finding:	3.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-NOV-13	Finding:	184.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-NOV-13	Finding:	58.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-NOV-13	Finding:	1.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	25-NOV-13	Finding:	3.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-OCT-13	Finding:	165.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-OCT-13	Finding:	51.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-OCT-13	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-OCT-13	Finding:	1.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-OCT-13	Finding:	3.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-SEP-13	Finding:	1.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-SEP-13	Finding:	50.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-SEP-13	Finding:	212.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-SEP-13	Finding:	3.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	5.59
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	26-AUG-13	Finding:	0.73
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-AUG-13	Finding:	0.4
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-AUG-13	Finding:	3.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	1.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	10.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	26-AUG-13	Finding:	0.15
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-AUG-13	Finding:	1.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	26-AUG-13	Finding:	3.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	1.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	52.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-AUG-13	Finding:	290.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-AUG-13	Finding:	2.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JUL-13	Finding:	1.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JUL-13	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JUL-13	Finding:	50.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-JUL-13	Finding:	167.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-JUL-13	Finding:	3.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JUN-13	Finding:	42.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JUN-13	Finding:	149.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JUN-13	Finding:	0.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	24-JUN-13	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JUN-13	Finding:	4.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAY-13	Finding:	178.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-MAY-13	Finding:	39.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-MAY-13	Finding:	0.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAY-13	Finding:	1.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAY-13	Finding:	4.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-APR-13	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-APR-13	Finding:	4.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-APR-13	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-MAR-13	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-MAR-13	Finding:	43.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-MAR-13	Finding:	166.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-MAR-13	Finding:	2.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-MAR-13	Finding:	4.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-FEB-13	Finding:	49.1
Chemical:	MANGANESE	Report units:	UG/L

Dlr:	20.		
Sample date:	25-FEB-13	Finding:	190.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-JAN-13	Finding:	5.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JAN-13	Finding:	2.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JAN-13	Finding:	32.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-JAN-13	Finding:	153.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-DEC-12	Finding:	6.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-DEC-12	Finding:	3.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-DEC-12	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-DEC-12	Finding:	43.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-DEC-12	Finding:	260.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-NOV-12	Finding:	8.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-NOV-12	Finding:	4.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-NOV-12	Finding:	0.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-NOV-12	Finding:	43.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-NOV-12	Finding:	174.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	22-OCT-12	Finding:	39.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-OCT-12	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-OCT-12	Finding:	3.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-OCT-12	Finding:	7.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-OCT-12	Finding:	354.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-OCT-12	Finding:	2.4
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		
Sample date:	24-SEP-12	Finding:	38.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-SEP-12	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-SEP-12	Finding:	4.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-SEP-12	Finding:	8.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-SEP-12	Finding:	214.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-AUG-12	Finding:	0.61
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	7.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	3.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	0.34
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	27-AUG-12	Finding:	849.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	27-AUG-12	Finding:	7.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	3.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	38.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-AUG-12	Finding:	200.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-AUG-12	Finding:	0.34
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	27-AUG-12	Finding:	188.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	120.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	3.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	84.2
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	48.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	134.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	524.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	398.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	326.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	27-AUG-12	Finding:	7.26
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	1295.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	3.1
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		
Sample date:	23-JUL-12	Finding:	2.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUL-12	Finding:	38.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-JUL-12	Finding:	138.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-JUL-12	Finding:	5.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUN-12	Finding:	4.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUN-12	Finding:	22.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-JUN-12	Finding:	248.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JUN-12	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAY-12	Finding:	4.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAY-12	Finding:	2.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAY-12	Finding:	26.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	29-MAY-12	Finding:	396.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-APR-12	Finding:	155.
Chemical:	IRON	Report units:	UG/L

Dlr:	100.		
Sample date:	23-APR-12	Finding:	4.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-APR-12	Finding:	2.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-APR-12	Finding:	23.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-MAR-12	Finding:	2.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAR-12	Finding:	40.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-MAR-12	Finding:	188.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-MAR-12	Finding:	4.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-12	Finding:	3.2
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		
Sample date:	27-FEB-12	Finding:	128.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-FEB-12	Finding:	2.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-12	Finding:	4.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-12	Finding:	36.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JAN-12	Finding:	3.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JAN-12	Finding:	3.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	24-JAN-12	Finding:	5.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	24-JAN-12	Finding:	90.6
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JAN-12	Finding:	2.2
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	24-JAN-12	Finding:	49.4
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JAN-12	Finding:	33.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

C13
NNW
1/2 - 1 Mile
Higher

CA WELLS 3002

Seq:	3002	Prim sta c:	02S/15W-11C16 S
Frds no:	1910146007	County:	19
District:	07	User id:	4TH
System no:	1910146	Water type:	G
Source nam:	CHARNOCK WELL 15	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340100.0	Longitude:	1182500.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910146	System nam:	SANTA MONICA-CITY, WATER DIVISION
Hqname:	Not Reported	Address:	1212 FIFTH ST., 3RD FLOOR
City:	SANTA MONICA	State:	CA
Zip:	90401	Zip ext:	Not Reported
Pop serv:	86905	Connection:	15905
Area serve:	SANTA MONICA		
Sample date:	25-JUN-12	Finding:	6.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUN-12	Finding:	2.2
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		
Sample date:	25-JUN-12	Finding:	770.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JUN-12	Finding:	59.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-JUN-12	Finding:	0.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUN-12	Finding:	2.4

Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAY-12	Finding:	90.8
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	29-MAY-12	Finding:	2.2
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		
Sample date:	29-MAY-12	Finding:	575.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	29-MAY-12	Finding:	56.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	29-MAY-12	Finding:	0.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAY-12	Finding:	1.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAY-12	Finding:	5.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-APR-12	Finding:	590.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-APR-12	Finding:	5.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-APR-12	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-APR-12	Finding:	54.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-APR-12	Finding:	2.8
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		
Sample date:	26-MAR-12	Finding:	580.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-MAR-12	Finding:	4.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAR-12	Finding:	57.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	26-MAR-12	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-12	Finding:	2.2
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		
Sample date:	27-FEB-12	Finding:	895.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-FEB-12	Finding:	1.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-12	Finding:	5.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-12	Finding:	2.13
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-FEB-12	Finding:	64.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JAN-12	Finding:	445.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JAN-12	Finding:	63.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JAN-12	Finding:	1.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JAN-12	Finding:	4.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

C14
NNW
1/2 - 1 Mile
Higher

CA WELLS 2998

Seq:	2998	Prim sta c:	02S/15W-11C06 S
Frds no:	1910030001	County:	19
District:	15	User id:	MET
System no:	1910030	Water type:	G
Source nam:	CHARNOCK WELL 06 - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340100.0	Longitude:	1182500.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910030	System nam:	SCWC - CULVER CITY
Hqname:	SOUTHERN CALIF WATER CO	Address:	12035 Burke Street, Suite 1
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	36600	Connection:	9193
Area serve:	CULVER CITY		

C15
NNW
1/2 - 1 Mile
Higher

CA WELLS 22700

Seq:	22700	Prim sta c:	G19/030-FMTFPEF
Frds no:	1910030006	County:	19
District:	15	User id:	MET
System no:	1910030	Water type:	G
Source nam:	CHARNOCK - FE,MN,FILTER PLANT, EFFLUENT		
Station ty:	WELL/AMBNT/MUN/INTAKE	Latitude:	340101.0
Longitude:	1182500.0	Precision:	5
Status:	AT	Comment 1:	Not Reported
Comment 2:	Not Reported	Comment 3:	Not Reported
Comment 4:	Not Reported	Comment 5:	Not Reported
Comment 6:	Not Reported	Comment 7:	Not Reported

System no:	1910030	System nam:	SCWC - CULVER CITY
Hqname:	SOUTHERN CALIF WATER CO	Address:	12035 Burke Street, Suite 1
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	36600	Connection:	9193
Area serve:	CULVER CITY		

C16
NNW
1/2 - 1 Mile
Higher

CA WELLS 22701

Seq:	22701	Prim sta c:	G19/030-FMTFPIN
Frds no:	1910030009	County:	19
District:	15	User id:	MET
System no:	1910030	Water type:	G
Source nam:	CHARNOCK - MN,FE FILTER PLANT, INFLUENT		
Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY	Latitude:	340101.0
Longitude:	1182500.0	Precision:	5
Status:	AT	Comment 1:	Not Reported
Comment 2:	Not Reported	Comment 3:	Not Reported
Comment 4:	Not Reported	Comment 5:	Not Reported
Comment 6:	Not Reported	Comment 7:	Not Reported

System no:	1910030	System nam:	SCWC - CULVER CITY
Hqname:	SOUTHERN CALIF WATER CO	Address:	12035 Burke Street, Suite 1
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	36600	Connection:	9193
Area serve:	CULVER CITY		

Map ID Direction Distance Elevation	Database	EDR ID Number
D17 **NW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADW60000036108**

Objectid:	36108	Latitude:	34.014593
Longitude:	-118.422622	Site code:	340161N1184263W003
State well numbe:	Not Reported	Local well name:	'RMW-10'
Well use id:	1	Well use descrip:	Observation
County id:	19	County name:	Los Angeles
Basin code:	'4-11.01'	Basin desc:	Santa Monica
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000036108		

D18 **NW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADW60000036088**

Objectid:	36088	Latitude:	34.014547
Longitude:	-118.422701	Site code:	340161N1184263W002
State well numbe:	Not Reported	Local well name:	'RMW-9'
Well use id:	1	Well use descrip:	Observation
County id:	19	County name:	Los Angeles
Basin code:	'4-11.01'	Basin desc:	Santa Monica
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000036088		

D19 **NW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADW60000036087**

Objectid:	36087	Latitude:	34.014607
Longitude:	-118.422688	Site code:	340161N1184263W001
State well numbe:	Not Reported	Local well name:	'RMW-8'
Well use id:	1	Well use descrip:	Observation
County id:	19	County name:	Los Angeles
Basin code:	'4-11.01'	Basin desc:	Santa Monica
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000036087		

20 **NNW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**3005**

Seq:	3005	Prim sta c:	02S/15W-11C19 S
Frds no:	1910146008	County:	19
District:	07	User id:	4TH
System no:	1910146	Water type:	G
Source nam:	CHARNOCK WELL 16	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340104.0	Longitude:	1182500.0
Precision:	5	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported

Comment 7: Not Reported

System no:	1910146	System nam:	SANTA MONICA-CITY, WATER DIVISION
Hqname:	Not Reported	Address:	1212 FIFTH ST., 3RD FLOOR
City:	SANTA MONICA	State:	CA
Zip:	90401	Zip ext:	Not Reported
Pop serv:	86905	Connection:	15905
Area serve:	SANTA MONICA		

Sample date:	05-MAR-18	Finding:	2.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-MAR-18	Finding:	185.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-MAR-18	Finding:	45.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	05-MAR-18	Finding:	3.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAR-18	Finding:	15.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAR-18	Finding:	2.7
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-FEB-18	Finding:	164.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-FEB-18	Finding:	69.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	05-FEB-18	Finding:	2.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-FEB-18	Finding:	11.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JAN-18	Finding:	62.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	02-JAN-18	Finding:	3.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JAN-18	Finding:	13.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JAN-18	Finding:	200.

Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	04-DEC-17	Finding:	190.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	04-DEC-17	Finding:	3.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-17	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-17	Finding:	46.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	06-NOV-17	Finding:	185.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-NOV-17	Finding:	4.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-NOV-17	Finding:	16.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-NOV-17	Finding:	46.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	02-OCT-17	Finding:	149.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-OCT-17	Finding:	52.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	02-OCT-17	Finding:	4.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-OCT-17	Finding:	18.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-17	Finding:	177.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-SEP-17	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-17	Finding:	4.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	05-SEP-17	Finding:	18.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-17	Finding:	54.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-AUG-17	Finding:	2.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-AUG-17	Finding:	10.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-AUG-17	Finding:	3.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-AUG-17	Finding:	13.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-AUG-17	Finding:	212.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-AUG-17	Finding:	51.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JUL-17	Finding:	145.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JUL-17	Finding:	50.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JUL-17	Finding:	3.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JUL-17	Finding:	16.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JUN-17	Finding:	206.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-JUN-17	Finding:	4.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JUN-17	Finding:	17.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JUN-17	Finding:	45.6
Chemical:	MANGANESE	Report units:	UG/L

Dlr:	20.		
Sample date:	22-MAY-17	Finding:	144.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-MAY-17	Finding:	29.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-MAY-17	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-MAY-17	Finding:	5.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-MAY-17	Finding:	22.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-APR-17	Finding:	145.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-APR-17	Finding:	3.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-APR-17	Finding:	13.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-APR-17	Finding:	23.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-MAR-17	Finding:	2.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-MAR-17	Finding:	8.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-MAR-17	Finding:	112.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-MAR-17	Finding:	31.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-FEB-17	Finding:	157.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-FEB-17	Finding:	3.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	27-FEB-17	Finding:	16.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-17	Finding:	34.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-JAN-17	Finding:	2.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-JAN-17	Finding:	31.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-JAN-17	Finding:	4.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JAN-17	Finding:	17.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JAN-17	Finding:	162.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-DEC-16	Finding:	155.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-DEC-16	Finding:	3.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-DEC-16	Finding:	16.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-DEC-16	Finding:	49.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-NOV-16	Finding:	4.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-NOV-16	Finding:	16.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-NOV-16	Finding:	182.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-NOV-16	Finding:	51.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-OCT-16	Finding:	14.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	24-OCT-16	Finding:	4.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-OCT-16	Finding:	52.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-OCT-16	Finding:	208.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-SEP-16	Finding:	15.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-SEP-16	Finding:	4.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-SEP-16	Finding:	184.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-SEP-16	Finding:	47.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-AUG-16	Finding:	155.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-AUG-16	Finding:	38.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-AUG-16	Finding:	3.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-AUG-16	Finding:	11.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-AUG-16	Finding:	2.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-AUG-16	Finding:	8.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAR-16	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAR-16	Finding:	6.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	28-MAR-16	Finding:	20.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAR-16	Finding:	246.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-MAR-16	Finding:	37.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-FEB-16	Finding:	2.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-16	Finding:	19.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-FEB-16	Finding:	5.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-FEB-16	Finding:	39.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-FEB-16	Finding:	171.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JAN-16	Finding:	171.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JAN-16	Finding:	18.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JAN-16	Finding:	6.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JAN-16	Finding:	52.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-DEC-15	Finding:	176.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-DEC-15	Finding:	47.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-DEC-15	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-DEC-15	Finding:	8.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	28-DEC-15	Finding:	23.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-NOV-15	Finding:	188.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	30-NOV-15	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-NOV-15	Finding:	7.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-NOV-15	Finding:	22.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-NOV-15	Finding:	40.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-OCT-15	Finding:	17.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-OCT-15	Finding:	6.4
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-OCT-15	Finding:	174.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-OCT-15	Finding:	36.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-SEP-15	Finding:	198.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-SEP-15	Finding:	33.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-SEP-15	Finding:	6.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-SEP-15	Finding:	18.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	45.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	24-AUG-15	Finding:	169.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-AUG-15	Finding:	7.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	18.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	0.54
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	7.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	21.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-AUG-15	Finding:	0.76
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	27-JUL-15	Finding:	154.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-JUL-15	Finding:	27.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-JUL-15	Finding:	19.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JUL-15	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JUL-15	Finding:	7.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JUN-15	Finding:	178.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-JUN-15	Finding:	39.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-JUN-15	Finding:	21.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JUN-15	Finding:	0.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	22-JUN-15	Finding:	9.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAY-15	Finding:	141.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-MAY-15	Finding:	28.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-MAY-15	Finding:	20.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAY-15	Finding:	8.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-APR-15	Finding:	163.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-APR-15	Finding:	31.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-APR-15	Finding:	18.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-APR-15	Finding:	8.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAR-15	Finding:	174.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-MAR-15	Finding:	35.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-MAR-15	Finding:	22.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAR-15	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAR-15	Finding:	9.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	1072.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	23-FEB-15	Finding:	240.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-FEB-15	Finding:	324.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	395.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	517.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	123.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	43.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	72.8
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	3.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	66.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	191.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	0.35
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	23-FEB-15	Finding:	47.6
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	23-FEB-15	Finding:	2.5
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	23-FEB-15	Finding:	170.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-FEB-15	Finding:	27.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-FEB-15	Finding:	9.3
Chemical:	MOLYDBENDUM	Report units:	UG/L

Dlr:	0.		
Sample date:	23-FEB-15	Finding:	8.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	20.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-FEB-15	Finding:	743.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-15	Finding:	0.67
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	23-FEB-15	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	26-JAN-15	Finding:	151.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-JAN-15	Finding:	34.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-JAN-15	Finding:	0.95
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	26-JAN-15	Finding:	9.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JAN-15	Finding:	25.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-JAN-15	Finding:	0.54
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-DEC-14	Finding:	148.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-DEC-14	Finding:	30.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-DEC-14	Finding:	7.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-DEC-14	Finding:	0.64
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	22-DEC-14	Finding:	17.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-NOV-14	Finding:	200.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-NOV-14	Finding:	43.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-NOV-14	Finding:	9.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-NOV-14	Finding:	20.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-NOV-14	Finding:	0.91
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	27-OCT-14	Finding:	29.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-OCT-14	Finding:	0.64
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	27-OCT-14	Finding:	16.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-OCT-14	Finding:	7.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-OCT-14	Finding:	144.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-SEP-14	Finding:	145.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-SEP-14	Finding:	19.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-14	Finding:	32.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-SEP-14	Finding:	9.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-14	Finding:	0.94
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L

Dlr:	0.		
Sample date:	25-AUG-14	Finding:	17.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-AUG-14	Finding:	7.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-AUG-14	Finding:	30.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-AUG-14	Finding:	147.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-AUG-14	Finding:	0.76
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	28-JUL-14	Finding:	0.82
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	28-JUL-14	Finding:	7.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-14	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-14	Finding:	31.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-JUL-14	Finding:	151.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-JUN-14	Finding:	18.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUN-14	Finding:	0.74
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	23-JUN-14	Finding:	166.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-JUN-14	Finding:	47.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-JUN-14	Finding:	7.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	27-MAY-14	Finding:	183.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-MAY-14	Finding:	51.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-MAY-14	Finding:	8.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-MAY-14	Finding:	16.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-MAY-14	Finding:	1.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	28-APR-14	Finding:	169.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-APR-14	Finding:	45.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-APR-14	Finding:	0.81
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	28-APR-14	Finding:	11.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-APR-14	Finding:	5.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAR-14	Finding:	218.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-MAR-14	Finding:	47.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-MAR-14	Finding:	9.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAR-14	Finding:	18.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-MAR-14	Finding:	0.99
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	24-FEB-14	Finding:	129.
Chemical:	IRON	Report units:	UG/L

Dlr:	100.		
Sample date:	24-FEB-14	Finding:	11.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-FEB-14	Finding:	15.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JAN-14	Finding:	27.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-JAN-14	Finding:	10.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-JAN-14	Finding:	98.9
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-JAN-14	Finding:	14.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-DEC-13	Finding:	164.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-DEC-13	Finding:	44.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-DEC-13	Finding:	15.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-DEC-13	Finding:	10.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-NOV-13	Finding:	30.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-NOV-13	Finding:	1.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	25-NOV-13	Finding:	9.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-NOV-13	Finding:	9.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-NOV-13	Finding:	105.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	28-OCT-13	Finding:	183.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-OCT-13	Finding:	14.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-OCT-13	Finding:	44.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-OCT-13	Finding:	11.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-SEP-13	Finding:	134.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-SEP-13	Finding:	33.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-SEP-13	Finding:	10.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-SEP-13	Finding:	13.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	41.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-AUG-13	Finding:	144.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-AUG-13	Finding:	2.11
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-AUG-13	Finding:	4.95
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	26-AUG-13	Finding:	11.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	14.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	2.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	26-AUG-13	Finding:	7.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	26-AUG-13	Finding:	7.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-AUG-13	Finding:	1.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	26-AUG-13	Finding:	0.4
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-AUG-13	Finding:	0.84
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JUL-13	Finding:	10.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JUL-13	Finding:	80.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-JUL-13	Finding:	31.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-JUL-13	Finding:	12.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JUN-13	Finding:	14.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JUN-13	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JUN-13	Finding:	34.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	24-JUN-13	Finding:	119.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JUN-13	Finding:	10.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAY-13	Finding:	189.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	28-MAY-13	Finding:	15.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAY-13	Finding:	87.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	28-MAY-13	Finding:	9.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-MAY-13	Finding:	0.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-APR-13	Finding:	9.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-APR-13	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-APR-13	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-MAR-13	Finding:	129.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-MAR-13	Finding:	1.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	25-MAR-13	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-MAR-13	Finding:	9.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-MAR-13	Finding:	14.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-MAR-13	Finding:	53.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-FEB-13	Finding:	9.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-FEB-13	Finding:	87.8
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-FEB-13	Finding:	50.4
Chemical:	MANGANESE	Report units:	UG/L

Dlr:	20.		
Sample date:	25-FEB-13	Finding:	13.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JAN-13	Finding:	90.5
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	28-JAN-13	Finding:	11.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JAN-13	Finding:	15.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-DEC-12	Finding:	54.9
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-DEC-12	Finding:	11.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-DEC-12	Finding:	8.
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	24-DEC-12	Finding:	11.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-DEC-12	Finding:	1.4
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	24-DEC-12	Finding:	1.8
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	26-NOV-12	Finding:	13.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-NOV-12	Finding:	1.4
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	26-NOV-12	Finding:	27.2
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-NOV-12	Finding:	12.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-OCT-12	Finding:	11.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	22-OCT-12	Finding:	44.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	22-OCT-12	Finding:	17.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-SEP-12	Finding:	1.2
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	24-SEP-12	Finding:	1.7
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	24-SEP-12	Finding:	12.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-SEP-12	Finding:	13.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-SEP-12	Finding:	21.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-AUG-12	Finding:	483.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	9.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	27-AUG-12	Finding:	7.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	1130.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	327.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	399.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	12.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	120.
Chemical:	CALCIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	27-AUG-12	Finding:	43.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	748.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	10.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	1.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	27-AUG-12	Finding:	22.4
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-AUG-12	Finding:	0.32
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	27-AUG-12	Finding:	182.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	66.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	3.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-AUG-12	Finding:	72.6
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JUL-12	Finding:	8.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUL-12	Finding:	9.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUL-12	Finding:	1.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	23-JUL-12	Finding:	18.7
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	25-JUN-12	Finding:	7.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUN-12	Finding:	126.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JUN-12	Finding:	9.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAY-12	Finding:	6.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAY-12	Finding:	8.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-APR-12	Finding:	7.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-APR-12	Finding:	10.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-APR-12	Finding:	186.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-APR-12	Finding:	8.6
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		
Sample date:	26-MAR-12	Finding:	39.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-MAR-12	Finding:	7.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAR-12	Finding:	116.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	26-MAR-12	Finding:	10.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-12	Finding:	6.3
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		
Sample date:	27-FEB-12	Finding:	152.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	27-FEB-12	Finding:	26.1
Chemical:	MANGANESE	Report units:	UG/L

Dlr:	20.		
Sample date:	27-FEB-12	Finding:	7.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-FEB-12	Finding:	10.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JAN-12	Finding:	7.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JAN-12	Finding:	3.3
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	24-JAN-12	Finding:	6.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-JAN-12	Finding:	54.8
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JAN-12	Finding:	2.5
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	24-JAN-12	Finding:	42.8
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	24-JAN-12	Finding:	23.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

E21
NW
1/2 - 1 Mile
Higher

CA WELLS **CADW60000036048**

Objectid:	36048	Latitude:	34.016056
Longitude:	-118.421202	Site code:	340161N1184263W011
State well numbe:	Not Reported	Local well name:	'RMW-28'
Well use id:	1	Well use descrip:	Observation
County id:	19	County name:	Los Angeles
Basin code:	'4-11.01'	Basin desc:	Santa Monica
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000036048		

E22
NW
1/2 - 1 Mile
Higher

CA WELLS **CADW60000036047**

Objectid:	36047	Latitude:	34.016029
Longitude:	-118.421267	Site code:	340161N1184263W010
State well numbe:	Not Reported	Local well name:	'RMW-29'

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well use id:	1	Well use descrip:	Observation
County id:	19	County name:	Los Angeles
Basin code:	'4-11.01'	Basin desc:	Santa Monica
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000036047		

1G
NW
1/8 - 1/4 Mile
Lower

Site ID:	I-07028	**AQUIFLOW**	**70463**
Groundwater Flow:	SSW		
Shallow Water Depth:	57.32		
Deep Water Depth:	58.47		
Average Water Depth:	Not Reported		
Date:	07/30/1998		

2G
WSW
1/4 - 1/2 Mile
Lower

Site ID:	900570061	**AQUIFLOW**	**55208**
Groundwater Flow:	Not Reported		
Shallow Water Depth:	8.37		
Deep Water Depth:	12		
Average Water Depth:	Not Reported		
Date:	08/07/1996		

Map ID
Direction
Distance

Database EDR ID Number

1
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213985**

Districtnu:	1	Apinumber:	03720078
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Phillips Petroleum Company	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	11	Township:	02S
Range:	15W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Signal-Halbouty-Reserve Culver City E.H.		
Wellnumber:	1	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	PDH	Site id:	CAOG11000213985

2
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000204891**

Districtnu:	1	Apinumber:	03705745
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Olympic Realty Corp.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	14	Township:	02S
Range:	15W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204891		

3
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000204639**

Districtnu:	1	Apinumber:	03705377
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	B
Operatorna:	Elbe Oil Land Dev. Co.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	13	Township:	02S
Range:	15W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	6

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000204639		

4
NE **OIL_GAS** **CAOG11000206926**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709153
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Vincent Petroleum Corp. Ltd.	Countyname:	Los Angeles
Fieldname:	Inglewood	Areaname:	Any Area
Section:	12	Township:	02S
Range:	15W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Uharriet	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000206926		

A5
NNE **OIL_GAS** **CAOG11000206928**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709155
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Tom Bardeen, Oper.	Countyname:	Los Angeles
Fieldname:	Inglewood	Areaname:	Any Area
Section:	12	Township:	02S
Range:	15W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	M.G.M.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206928		

A6
NNE **OIL_GAS** **CAOG11000206927**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709154
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Wood-Callahan	Countyname:	Los Angeles
Fieldname:	Inglewood	Areaname:	Any Area
Section:	12	Township:	02S
Range:	15W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Culver City Unit A-2	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000206927		

7
SSW **OIL_GAS** **CAOG11000205027**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03705949
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	14	Township:	02S
Range:	15W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Basin Builders	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000205027		

8
East **OIL_GAS** **CAOG11000206257**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03708126
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Inglewood	Areaname:	Any Area
Section:	7	Township:	02S
Range:	14W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Culver City Unit	Wellnumber:	101
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206257		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90230	40	3

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Culver Boulevard Realignment/Urban Stormwater
4246 Sepulveda Boulevard
CULVER CITY, CA 90230

Inquiry Number: 5530785.5
January 10, 2019

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.

Data by
infoUSA®
Copyright©2008
All Rights Reserved

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2010	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2006	Haines Co., Inc.	X	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines & Company, Inc.	-	-	-	-
2000	Haines & Company	X	X	X	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1990	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1986	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1985	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1981	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1976	Pacific Telephone	-	X	X	-
1975	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	-	X	X	-
1970	Pacific Telephone	-	X	X	-
1969	Pacific Telephone	-	-	-	-
1967	Pacific Telephone	-	X	X	-
1966	Pacific Telephone	-	-	-	-
1965	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	X	X	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	Pacific Telephone	-	-	-	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Los Angeles Directory Co.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1946	Southern California Telephone Co	-	-	-	-
1945	The Glendale Directory Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Company Publishers	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
4234 Sepulveda Boulvard	Client Entered	
4236 Sepulveda Boulvard	Client Entered	
4300 Sepulveda Boulvard	Client Entered	
4301 Sepulveda Boulvard	Client Entered	
4049 Coogan Circle	Client Entered	
10876 Culver Boulevard	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

4246 Sepulveda Boulevard
CULVER CITY, CA 90230

FINDINGS DETAIL

Target Property research detail.

Coogan

4049 Coogan

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
2000	XXXX	Haines & Company

Coogan Circle

4049 Coogan Circle

Year	Uses	Source

Culver Boulevard

10876 Culver Boulevard

Year	Uses	Source

S SEPULVEDA BLVD

4246 S SEPULVEDA BLVD

Year	Uses	Source
1991	Culver City	Pacific Bell
	TUNEUP MASTERS	Pacific Bell
1990	TUNEUP MASTERS	Pacific Bell
1986	TUNEUP MASTERS CULVER CITY CC	Pacific Bell
1981	TUNEUP MASTERS	Pacific Telephone
1980	Culver City	Pacific Telephone

FINDINGS

Sepulveda Blvd

4234 Sepulveda Blvd

Year	Uses	Source
2014	CULVER CITY HOME BREWING SUP	EDR Digital Archive

4236 Sepulveda Blvd

Year	Uses	Source
2010	JR PIZZA INC	EDR Digital Archive
	L A PIZZA INC	EDR Digital Archive

SEPULVEDA BLVD

4236 SEPULVEDA BLVD

Year	Uses	Source
2006	LAPIZZAINC	Haines Co., Inc.
2000	L A PIZZA INC	Haines & Company

Sepulveda Blvd

4246 Sepulveda Blvd

Year	Uses	Source
2014	AVIS RENT A CAR SYSTEM	EDR Digital Archive
2010	AVIS RENT A CAR SYSTEM	EDR Digital Archive
	LAMELFACHI LLC	EDR Digital Archive

SEPULVEDA BLVD

4246 SEPULVEDA BLVD

Year	Uses	Source
2006	TUNEUP MASTERS	Haines Co., Inc.
2000	CHECK ENGINE TUNE & LUBE	Haines & Company
	EXPERT TUNE	Haines & Company
	KARAGOZIAN Miron	Haines & Company
	XPERT TUNE	Haines & Company
1965	STAPLES REALTOR	Pacific Telephone
1962	FELIX JOHN STAPLES REALTOR	Pacific Telephone
	GRAVES EAN I STAPLES REALTOR	Pacific Telephone
	STAPLES REALTOR	Pacific Telephone
1954	STAPLES REALTOR	R. L. Polk & Co.

FINDINGS

Sepulveda Blvd

4300 Sepulveda Blvd

Year	Uses	Source
2014	SEPULVEDA ANIMAL HOSPITAL INC	EDR Digital Archive

4301 Sepulveda Blvd

Year	Uses	Source
2010	PEREZ JOSE FOREIGN CAR	EDR Digital Archive

SEPULVEDA BLVD

4301 SEPULVEDA BLVD

Year	Uses	Source
2006	J P FOREIGN CAR	Haines Co., Inc.
	SERVICE	Haines Co., Inc.
2000	HLIVYAK John	Haines & Company
	J P FOREIGN CAR SE	Haines & Company
1991	J P Import MALIBU	Pacific Bell
	JP FOREIGN CAR SERVICE	Pacific Bell
1985	PEREZ JOSE FOREIGN CAR SERVICE	Pacific Bell
1980	FOREIGN CAR SERVICE	Pacific Telephone
	Perez Jose Foreign Car Service	Pacific Telephone
1975	KANG S SHELL SERVICE	Pacific Telephone
1954	CULVER & SEPULVEDA SHELL SCRV	R. L. Polk & Co.

Sepulveda Boulvard

4234 Sepulveda Boulvard

Year	Uses	Source

4236 Sepulveda Boulvard

Year	Uses	Source

4300 Sepulveda Boulvard

Year	Uses	Source

FINDINGS

4301 Sepulveda Boulvard

Year	***Uses***	***Source***

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CENTER

4186 CENTER

Year	Uses	Source
2000	MCNAMARA Kevin	Haines & Company

4187 CENTER

Year	Uses	Source
2000	MILLS Richard Page	Haines & Company

4190 CENTER

Year	Uses	Source
2000	KIMMEL Robert	Haines & Company

4191 CENTER

Year	Uses	Source
2000	KIM Jin	Haines & Company

4192 CENTER

Year	Uses	Source
2000	KIMMEL Jo	Haines & Company
	KIMMEL Bob	Haines & Company

CENTER ST

4186 CENTER ST

Year	Uses	Source
2006	MCNAMARA Kevin	Haines Co., Inc.
1985	SCHWAB RICHARD L & RUTH S	Pacific Bell
1980	Schwab Richard L & Ruth S	Pacific Telephone
	Schwab Robt	Pacific Telephone

4187 CENTER ST

Year	Uses	Source
2006	MILLS Richard Page 3104 838 Boe	Haines Co., Inc.
1985	MILLS RICHARD PAGE	Pacific Bell
1980	Mills Richard Page	Pacific Telephone

FINDINGS

4190 CENTER ST

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.

4191 CENTER ST

Year	Uses	Source
2006	a KIMJIn	Haines Co., Inc.
1985	FRASER JOHN	Pacific Bell
1980	Fraser John	Pacific Telephone
1975	FRASER JOHN	Pacific Telephone
1958	LE COVER MORTON	Pacific Telephone
1954	LE COVER MORTON	R. L. Polk & Co.

4192 CENTER ST

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1985	ANDALMAN SHEP	Pacific Bell
1980	Andalman Shep	Pacific Telephone
1975	ANDALMAN SHEP	Pacific Telephone
1970	ANDALMAN SHEP	Pacific Telephone

4193 CENTER ST

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.

COMMONWEALTH AVE

4146 COMMONWEALTH AVE

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1965	JOHNSON EMERY H	Pacific Telephone
1962	JOHNSON EMERY H	Pacific Telephone
1958	SCIBELLI MICHAEL F	Pacific Telephone
1954	TILTON FLOYD F R	R. L. Polk & Co.

4147 COMMONWEALTH AVE

Year	Uses	Source
2006	GAREER Be Ky M	Haines Co., Inc.
2000	GARBER Betty	Haines & Company

FINDINGS

4150 COMMONWEALTH AVE

Year	Uses	Source
2006	a BENTZCraig	Haines Co., Inc.
2000	BENTZ Craig	Haines & Company
	BENTZ Graig	Haines & Company
1991	Bentz Craig	Pacific Bell
	Bentz D SANTA MONICA 3941582	Pacific Bell
	BENTZ CRAIG	Pacific Bell
1965	ST GERMAIN MARTHA	Pacific Telephone
1962	ST GERMAIN MARTHA	Pacific Telephone
1958	BLOCK MELVYN	Pacific Telephone
1954	ST GERMAIN MARTHA M	R. L. Polk & Co.

4152 COMMONWEALTH AVE

Year	Uses	Source
2006	ERICAdamrs	Haines Co., Inc.
2000	XXXX	Haines & Company

4153 COMMONWEALTH AVE

Year	Uses	Source
2006	MEDORAA	Haines Co., Inc.
2000	MEDORA A	Haines & Company
1991	Medora A	Pacific Bell
	MEDORA A	Pacific Bell
1985	STUEHLING G JON	Pacific Bell
1980	Stuehlong G Jon	Pacific Telephone
1970	FOSTER GAYLE C	Pacific Telephone
1965	GLOW LEWIS A	Pacific Telephone
1962	BLOCK RONALD W	Pacific Telephone
1958	DANIELS FLOYD J R	Pacific Telephone
1954	DANIELS FLOYD J R	R. L. Polk & Co.

4154 COMMONWEALTH AVE

Year	Uses	Source
2006	COHENA	Haines Co., Inc.
	WALPOW Nathan	Haines Co., Inc.
2000	WALPOW Nathan	Haines & Company
	COHEN A	Haines & Company
1954	DALBY THOS L R	R. L. Polk & Co.

FINDINGS

4157 COMMONWEALTH AVE

Year	Uses	Source
2006	SZETOTom	Haines Co., Inc.
	SZETOTom	Haines Co., Inc.
2000	BANKS David	Haines & Company
1991	Banks V	Pacific Bell
	BANKSV	Pacific Bell
1985	BANKS V	Pacific Bell
1980	Banks V	Pacific Telephone
	Banks	Pacific Telephone
	Banks Wayne Photography	Pacific Telephone
1975	GATES HAROLD Z JR	Pacific Telephone
1965	RPITN M	Pacific Telephone
1962	URPIN MARGUERITE	Pacific Telephone
1958	URPIN MARGUERITE	Pacific Telephone

4158 COMMONWEALTH AVE

Year	Uses	Source
2006	OKUDAMasaru B E	Haines Co., Inc.
2000	OKUDA Masaru	Haines & Company
1980	Okuda Masaru	Pacific Telephone
1975	OKUDA MASARU	Pacific Telephone
1965	CONRAD CLARENCE E	Pacific Telephone
1962	CONRAD CLARENCE E	Pacific Telephone
1958	HAWS LEONARD D	Pacific Telephone
1954	HEDGE HOMER A	R. L. Polk & Co.

4161 COMMONWEALTH AVE

Year	Uses	Source
2006	LADHARJaspal	Haines Co., Inc.
2000	CHAGGAN Hashim	Haines & Company
1991	Trudeau TO	Pacific Bell
	TRUDEAUTO	Pacific Bell
1985	TRUDEAU T O	Pacific Bell
1980	Trudeau TO	Pacific Telephone
1965	TRUDEAU MARY	Pacific Telephone
1962	TRUDEAU MARY	Pacific Telephone
1958	CHALIFOUX JOS0	Pacific Telephone
1954	STEVENSON CLARA R	R. L. Polk & Co.

FINDINGS

Commonwealth Ave

4162 Commonwealth Ave

Year	Uses	Source
2014	ZILCH CO INC	EDR Digital Archive
	BNT PRODUCTIONS INC	EDR Digital Archive
	ZILCH CO INC	EDR Digital Archive
	BNT PRODUCTIONS INC	EDR Digital Archive
2010	ZILCH CO INC	EDR Digital Archive
	ZILCH CO INC	EDR Digital Archive

COMMONWEALTH AVE

4162 COMMONWEALTH AVE

Year	Uses	Source
2006	WIANECKI Henry	Haines Co., Inc.
2000	WIANECKI Henry	Haines & Company
1991	Wianecki J H	Pacific Bell
1985	WIANECKI J H	Pacific Bell
1980	Fee Randal W	Pacific Telephone
1975	FEE RANDAL W	Pacific Telephone
1965	FEE RANDAL W	Pacific Telephone
1962	FEE RANDAL W	Pacific Telephone
1958	FEE RANDAL W	Pacific Telephone
1954	FEE RANDAL W	R. L. Polk & Co.

4165 COMMONWEALTH AVE

Year	Uses	Source
2000	RIMMER Dorothy	Haines & Company
1980	Rimmer Fred T Mrs	Pacific Telephone
1970	RADLEY J H	Pacific Telephone
1965	RADLEY J H	Pacific Telephone
	GOODWIN DOROTHY MRS	Pacific Telephone
1962	GOODWIN DOROTHY MRS	Pacific Telephone
	RADLSY J H	Pacific Telephone
1958	TUCKER WAYNE	Pacific Telephone

FINDINGS

Commonwealth Ave

4166 Commonwealth Ave

Year	Uses	Source
2010	PEMA MASTERS	EDR Digital Archive
	PEMA MASTERS	EDR Digital Archive

COMMONWEALTH AVE

4166 COMMONWEALTH AVE

Year	Uses	Source
2006	e DOLKARKesang	Haines Co., Inc.
2000	CHAMBERS Judy	Haines & Company
1954	BERARDINO FRED	R. L. Polk & Co.

Commonwealth Ave

4169 Commonwealth Ave

Year	Uses	Source
2014	TEETER WENDY G	EDR Digital Archive
	TEETER WENDY G	EDR Digital Archive

COMMONWEALTH AVE

4169 COMMONWEALTH AVE

Year	Uses	Source
2006	FORD Robedr	Haines Co., Inc.
2000	FORD Sally	Haines & Company
1985	REILMAN R & G	Pacific Bell
1975	BOOTH MICHAEL	Pacific Telephone
1965	GLASS LILBUIRN	Pacific Telephone
1962	GLASS LILBURN	Pacific Telephone
1958	GLASS LILBURN	Pacific Telephone
1954	PORTER FRANK H R	R. L. Polk & Co.

4170 COMMONWEALTH AVE

Year	Uses	Source
2006	o SOISSONPaul R	Haines Co., Inc.
2000	SOISSON Paul R	Haines & Company
1991	SOISSON PAUL R	Pacific Bell
	Soisson Paul R	Pacific Bell

FINDINGS

Year	Uses	Source
1985	SOISSON PAUL R	Pacific Bell
1980	Soisson Paul R	Pacific Telephone
1965	INGRAM RUSSELL G	Pacific Telephone
1962	SHERIDAN LIRBY	Pacific Telephone
1958	FANLEY EUGENE V	Pacific Telephone

Commonwealth Ave

4173 Commonwealth Ave

Year	Uses	Source
2010	CRONIN MILES P	EDR Digital Archive
	CRONIN MILES P	EDR Digital Archive

COMMONWEALTH AVE

4173 COMMONWEALTH AVE

Year	Uses	Source
2006	CRONIN Miles	Haines Co., Inc.
2000	BRUCE Robert	Haines & Company
1980	Herlofsky Jas	Pacific Telephone
1965	WEBB SHARLEEN	Pacific Telephone
	WEBB JAS F	Pacific Telephone
1962	ENGEL JOS	Pacific Telephone
1954	ENYEL JOS	R. L. Polk & Co.

4174 COMMONWEALTH AVE

Year	Uses	Source
2006	David	Haines Co., Inc.
	o HOUSEHOLDER	Haines Co., Inc.
2000	HOUSEHOLDER Evlynne	Haines & Company
	HOUSEHOLDER Evlynne	Haines & Company
1958	GRANT LEWIS R	Pacific Telephone
1954	GRANT LEWIS R	R. L. Polk & Co.

4177 COMMONWEALTH AVE

Year	Uses	Source
2006	DIMANT Sebas Uan	Haines Co., Inc.
2000	BENITEZ Humberto	Haines & Company
1991	Magee DB	Pacific Bell
	Magee David & Audrey	Pacific Bell

FINDINGS

Year	Uses	Source
1991	MAGEEDB	Pacific Bell
1985	MAGEE D B	Pacific Bell
1980	Magee Dorothy B	Pacific Telephone
1975	MAGEE DOROTHY B	Pacific Telephone
1970	MAGEE DOROTHY B	Pacific Telephone
1962	MAGEE DOROTHY B	Pacific Telephone
1958	MAGEE DOROTHY B	Pacific Telephone
1954	HOAGLAND H G	R. L. Polk & Co.

4178 COMMONWEALTH AVE

Year	Uses	Source
2006	e FULEEduardo	Haines Co., Inc.
2000	WELCH Alfred	Haines & Company
1962	WELCH ALFRED W	Pacific Telephone
1958	WELCH ALFRED W	Pacific Telephone
1954	WELCH ALFRED W	R. L. Polk & Co.

4181 COMMONWEALTH AVE

Year	Uses	Source
2006	o GILMANEvere tt L	Haines Co., Inc.
1980	Fayman SD	Pacific Telephone
	Fayman	Pacific Telephone
	Fayman D	Pacific Telephone
	Fayman Corey	Pacific Telephone
1965	VICKERS JOHN D	Pacific Telephone
1962	VICICERS JOHN D	Pacific Telephone
1958	VICKERS JOHN D	Pacific Telephone
1954	SIGLER LOWELL R R	R. L. Polk & Co.

4182 COMMONWEALTH AVE

Year	Uses	Source
2006	WEBER Richard	Haines Co., Inc.
2000	WEBER Richard	Haines & Company
1991	Weber Richard	Pacific Bell
	WEBER RICHARD	Pacific Bell
1985	WEBER RICHARD	Pacific Bell
1980	Weeber Richard	Pacific Telephone
1965	BALE ORVILLE	Pacific Telephone
	BALE GERMALEE	Pacific Telephone

FINDINGS

Year	Uses	Source
1962	BALN ORVILLE	Pacific Telephone
	BAIN GERMAINE	Pacific Telephone
1958	GRUBB JACK S	Pacific Telephone
1954	JOHNSON HARRY L	R. L. Polk & Co.

4185 COMMONWEALTH AVE

Year	Uses	Source
2006	o MATTESON Rebecca	Haines Co., Inc.
2000	MATTESON John	Haines & Company
1991	RABECK LE ROY F	Pacific Bell
	Rabeck Le Roy F	Pacific Bell
1985	RABECK LE ROY F	Pacific Bell
1980	Rabeck Le Roy F	Pacific Telephone
1965	RABECK LE ROY F	Pacific Telephone
1962	INGRAM RUSSELL G	Pacific Telephone
1958	COLLINSKE EUGENE P	Pacific Telephone

4186 COMMONWEALTH AVE

Year	Uses	Source
2006	BLANCO Roberto	Haines Co., Inc.
2000	BLANCO Roberto	Haines & Company
1991	Tuck Thos	Pacific Bell
	TUCKTHOS	Pacific Bell
	Tucker A & N Sm 3944350	Pacific Bell
1985	TUCK THOS	Pacific Bell
1980	Tuck Thos	Pacific Telephone
1970	TUCK THOMAS	Pacific Telephone
1965	TUCK THOMAS	Pacific Telephone
1962	TUCK THOMAS	Pacific Telephone
1958	TUCK THOMAS	Pacific Telephone
1954	TUCK THOMAS	R. L. Polk & Co.

4190 COMMONWEALTH AVE

Year	Uses	Source
2006	o SALASZoralda	Haines Co., Inc.
2000	KACHIC James	Haines & Company
	MOJICA Glenda	Haines & Company
	SALAS Zoraida	Haines & Company
1991	Gilman Everett L	Pacific Bell

FINDINGS

Year	Uses	Source
1991	GILMAN EVERETTL	Pacific Bell
1985	GILMAN EVERETT I	Pacific Bell
1980	Gilman Everett L	Pacific Telephone
1975	GILMAN EVERETT L	Pacific Telephone
1965	KACHIC JAS RICHARD	Pacific Telephone
1962	KACHIC JAS RICHARD	Pacific Telephone
1954	TYLERWM A R	R. L. Polk & Co.

Commonwealth Ave

4191 Commonwealth Ave

Year	Uses	Source
2014	MICHELLE MAHER FORD LEGACY LLC	EDR Digital Archive
	MICHELLE MAHER FORD LEGACY LLC	EDR Digital Archive
2010	FORDS PLUMBING & HEATING	EDR Digital Archive
	FORDS PLUMBING & HEATING	EDR Digital Archive

COMMONWEALTH AVE

4191 COMMONWEALTH AVE

Year	Uses	Source
2006	FORD Roben	Haines Co., Inc.
2000	FORD Robert	Haines & Company
	WEALTH CODE	Haines & Company
1980	Yancey Howard	Pacific Telephone
	Yancey Cecil H	Pacific Telephone
1965	YANCEY CECIL H	Pacific Telephone
1962	YANCEY CECIL H	Pacific Telephone
1958	YANCEY CECIL H R	Pacific Telephone
1954	YANCEY CECIL H R	R. L. Polk & Co.

CULVER BLVD

10962 CULVER BLVD

Year	Uses	Source
1991	LANGESR	Pacific Bell
1985	LANGES R	Pacific Bell

FINDINGS

10986 CULVER BLVD

Year	Uses	Source
1954	JORDAN WM H R	R. L. Polk & Co.

10992 CULVER BLVD

Year	Uses	Source
1975	BARNEY CATHERINE	Pacific Telephone

11021 CULVER BLVD

Year	Uses	Source
1975	NELSON L E	Pacific Telephone

11035 CULVER BLVD

Year	Uses	Source
1985	PERONNEAU E	Pacific Bell

11052 CULVER BLVD

Year	Uses	Source
1980	Zenith John C	Pacific Telephone

11119 CULVER BLVD

Year	Uses	Source
1975	MCCREA MYRTLE	Pacific Telephone

11124 CULVER BLVD

Year	Uses	Source
2006	SMITH Lloyd	Haines Co., Inc.
1985	ZEVIN IRVING	Pacific Bell
1980	Zevin Irving	Pacific Telephone

11128 CULVER BLVD

Year	Uses	Source
2006	SHIRO Irving	Haines Co., Inc.
1991	SHIROLRVING	Pacific Bell
	ShiroIrving	Pacific Bell
1985	SHIRO IRVING	Pacific Bell
1980	Shiro Irving	Pacific Telephone

11131 CULVER BLVD

Year	Uses	Source
2006	DHANJIYasmin	Haines Co., Inc.

FINDINGS

11132 CULVER BLVD

Year	Uses	Source
2006	e MATHEWKotayadiyil	Haines Co., Inc.

11133 CULVER BLVD

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1980	Sagar Budhi & Veena	Pacific Telephone
1975	KULI PATRICIA	Pacific Telephone
	OGLE PATRICIA	Pacific Telephone
1970	KAYNE RAYMOND J	Pacific Telephone

Culver Blvd

11137 Culver Blvd

Year	Uses	Source
2014	RESURRECTION FREE WILL	EDR Digital Archive
	RESURRECTION FREE WILL	EDR Digital Archive
2010	RESURRECTION FREE WILL	EDR Digital Archive
	RESURRECTION FREE WILL	EDR Digital Archive

CULVER BLVD

11137 CULVER BLVD

Year	Uses	Source
2006	Resu RRECTION	Haines Co., Inc.
	FREE WILL BAPTCH	Haines Co., Inc.
1991	Community Centers West Los Angeles	Pacific Bell
	RESURRECTION FREE WILL BAPTIST CHURCH	Pacific Bell
	NICHIREN SHOSHU SOKAGAKKAIOF AMERICA N S A HEADQUARTERS	Pacific Bell
	RESURRECTION FREE WILL BAPTIST CHURCH	Pacific Bell
1986	NICHIREN SHOSHU SOKAGAKKAI OF AMERICA N S A	Pacific Bell
1985	NICHIREN SHOSHU SOKAGAKKAI OF AMERICA N S A COMMUNITY CENTERS	Pacific Bell
1981	NICHIREN SHOSHU ACADEMY N S A COMMUNITY CENTERS	Pacific Telephone
1980	West Los Angeles	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	CHURCH OF CHRIST CULVER CENTER L1L	Pacific Telephone
	CULVER CENTER CHURCH OF CHRIST	Pacific Telephone

11138 CULVER BLVD

Year	Uses	Source
2006	MATHEWVareughese	Haines Co., Inc.
1975	GAYLE FRANK	Pacific Telephone

11142 CULVER BLVD

Year	Uses	Source
2006	FELLOWS Leah	Haines Co., Inc.

11147 CULVER BLVD

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1991	Myers D	Pacific Bell
	MYERSD	Pacific Bell
1985	SULLINS M V	Pacific Bell

Culver Blvd

11148 Culver Blvd

Year	Uses	Source
2010	SWAGGER RECORDING STUDIOS	EDR Digital Archive
	SWAGGER RECORDING STUDIOS	EDR Digital Archive

CULVER BLVD

11148 CULVER BLVD

Year	Uses	Source
2006	PETER C	Haines Co., Inc.
1985	BAROVICH MARNY	Pacific Bell
1980	Morgan Robt L	Pacific Telephone
1975	MORGAN ROBT L	Pacific Telephone

11149 CULVER BLVD

Year	Uses	Source
1980	Hill Benjamin W	Pacific Telephone
1975	HILL BENJAMIN W	Pacific Telephone

FINDINGS

11151 CULVER BLVD

Year	Uses	Source
2006	GURROLA Maria	Haines Co., Inc.
	BARNESRIcci	Haines Co., Inc.
1985	BADGETTJIMR	Pacific Bell
1975	CERVERA ROSA	Pacific Telephone

11152 CULVER BLVD

Year	Uses	Source
2006	NARVAEZJavier	Haines Co., Inc.
1985	MORGAN GARY A	Pacific Bell
	MORGAN GARY A PLASTRER	Pacific Bell
1980	Morgan Gary A	Pacific Telephone
1975	MORGAN GARY A	Pacific Telephone

Culver Blvd

11155 Culver Blvd

Year	Uses	Source
2014	A+DME SERVICES PROF CORP	EDR Digital Archive
	A+DME SERVICES PROF CORP	EDR Digital Archive
2010	A+DME SERVICES PROF CORP	EDR Digital Archive
	A PLUS DME SERVICES PC	EDR Digital Archive
	A+DME SERVICES PROF CORP	EDR Digital Archive
	A PLUS DME SERVICES PC	EDR Digital Archive

CULVER BLVD

11155 CULVER BLVD

Year	Uses	Source
2006	BARNES COMPUTER	Haines Co., Inc.
	ASSOCIATE INC	Haines Co., Inc.
1991	Swiss Quality Plumbing Inc	Pacific Bell
	SWISS QUALITY PLUMBING INC	Pacific Bell

Culver Blvd

11162 Culver Blvd

Year	Uses	Source
2014	CULVER MOTEL	EDR Digital Archive
	CULVER MOTEL	EDR Digital Archive

Year	Uses	Source
2010	CULVER MOTEL	EDR Digital Archive
	CULVER MOTEL	EDR Digital Archive

CULVER BLVD

11162 CULVER BLVD

Year	Uses	Source
2006	CULVER MOTEL	Haines Co., Inc.
	REESJeanne	Haines Co., Inc.
1991	CULVERMOTEL	Pacific Bell
	Culver Motel	Pacific Bell
1985	CULVER MOTEL	Pacific Bell
	1ST AMERICAN PROPERTY MANAGEMENT INC	Pacific Bell
1980	Culver Motel	Pacific Telephone
1975	CULVER MOTEL	Pacific Telephone

11163 CULVER BLVD

Year	Uses	Source
2006	TURNERThomas	Haines Co., Inc.
1985	PARADA FLORENTINE	Pacific Bell
1980	Parada Florentlno	Pacific Telephone
	Ziegert Richard A	Pacific Telephone
1975	PARADA FLORENTINO	Pacific Telephone

Culver Blvd

11165 Culver Blvd

Year	Uses	Source
2010	LUNA IMPORTS	EDR Digital Archive
	LUNA IMPORTS	EDR Digital Archive

CULVER BLVD

11165 CULVER BLVD

Year	Uses	Source
2006	APPLEBYLarrny N PRADO Gilbert 31 G	Haines Co., Inc.
1975	LUDWIG PAUL	Pacific Telephone
1970	LUNDQUIST C	Pacific Telephone

FINDINGS

11171 CULVER BLVD

Year	Uses	Source
2006	e RIVASCardos	Haines Co., Inc.

11175 CULVER BLVD

Year	Uses	Source
2006	DELACRUZ Eva	Haines Co., Inc.
1980	Nhgrl Thos J & Beva G	Pacific Telephone
1975	NEGRI GENE	Pacific Telephone

11178 CULVER BLVD

Year	Uses	Source
2006	APARTMENTS	Haines Co., Inc.
	ABURWEIN	Haines Co., Inc.
	Abdussalam	Haines Co., Inc.
	BRADSHAW Dods	Haines Co., Inc.
	GLEASON S	Haines Co., Inc.
	GUERRERO Dina	Haines Co., Inc.
	MCVAY Amanda	Haines Co., Inc.
	OCONNELL	Haines Co., Inc.
	Geraldine	Haines Co., Inc.
	PAPPAS George	Haines Co., Inc.
	ROLWING David	Haines Co., Inc.
	WALKER Debra	Haines Co., Inc.
1991	Downs Ray	Pacific Bell
	Fau ISDennis J	Pacific Bell
	Fischer Dorothy	Pacific Bell
	lveoson Audrey	Pacific Bell
	James Harold	Pacific Bell
	Kraft Henning	Pacific Bell
	Neal John J	Pacific Bell
	Seeger Mary	Pacific Bell
	Walsh Thos	Pacific Bell
	FAUISDENNISJ	Pacific Bell
	FISCHERDOROTHY	Pacific Bell
	LVEOSON AUDREY	Pacific Bell
	JAMESHAROLD	Pacific Bell
	KRAFT HENNING	Pacific Bell
	NEALJOHNJ	Pacific Bell
	SEEGERMARY	Pacific Bell

FINDINGS

Year	Uses	Source
1991	WALSHTHOS	Pacific Bell
1985	FALLEN ROBT	Pacific Bell
	FAULS DENNIS J	Pacific Bell
	COMER IGNACIO	Pacific Bell
	SEEGER MARY	Pacific Bell
	WALSH THOS	Pacific Bell
1980	Beer Gladys E	Pacific Telephone
	i Elkind Lynn	Pacific Telephone
	Fallen Robt	Pacific Telephone
	Fauls Dennis J	Pacific Telephone
	Garza Joe	Pacific Telephone
	Khraishah Adib S	Pacific Telephone
	Mc Cartney Larry	Pacific Telephone
	Seeger Mary	Pacific Telephone
	Tondolo Vicky	Pacific Telephone
1975	KRAUSE C	Pacific Telephone
	PETERSEN F	Pacific Telephone
1970	SMITH STEVEN D	Pacific Telephone

11179 CULVER BLVD

Year	Uses	Source
2006	YEE Stanley	Haines Co., Inc.
1991	YEES	Pacific Bell
	Yee T WESTLOS ANGELES	Pacific Bell
	Yee S	Pacific Bell
1985	OHIRA HUGO	Pacific Bell
1980	Ohira Hugo	Pacific Telephone
1975	OHIRA HUGO	Pacific Telephone
1970	TULLY RICHARD R	Pacific Telephone

11182 CULVER BLVD

Year	Uses	Source
1962	BROOKE VERNON TEXACO SERV	Pacific Telephone
1958	SAM S TEXACO SERV	Pacific Telephone
1954	HAL & LEO S TEXACO SERV	R. L. Polk & Co.

11192 CULVER BLVD

Year	Uses	Source
1985	PALM TREE GAS N WASH	Pacific Bell

FINDINGS

Year	Uses	Source
1980	Palm Tree Gas N Wash	Pacific Telephone
1975	PALM TREE GAS N WASH	Pacific Telephone
1970	PALM TREE GAS N WASH	Pacific Telephone

Culver Blvd

11208 Culver Blvd

Year	Uses	Source
2014	DEAR JOHNS RESTAURANT	EDR Digital Archive
	DEAR JOHNS RESTAURANT	EDR Digital Archive
2010	DEAR JOHNS RESTAURANT	EDR Digital Archive
	DEAR JOHNS RESTAURANT	EDR Digital Archive

CULVER BLVD

11208 CULVER BLVD

Year	Uses	Source
2006	Rest RNT	Haines Co., Inc.
	DEAR JOHNS	Haines Co., Inc.
1991	Dear Johns restrnt	Pacific Bell
1985	DEAR JOHN S RESTRNT	Pacific Bell
1980	Dear Johns restret	Pacific Telephone
1975	DEAR JOHN S RESTRNT	Pacific Telephone
1970	DEAR JOHN S RESTRNT	Pacific Telephone
1962	ENOMOTO HENRY	Pacific Telephone
1954	ENOMOTO HENRY	R. L. Polk & Co.

11215 CULVER BLVD

Year	Uses	Source
2006	KIKUCHIJeff	Haines Co., Inc.
1991	Kikuchi Tom	Pacific Bell
	KIKUCHI TOM	Pacific Bell
1985	KIKUCHI TOM	Pacific Bell
1980	Kikuchi Tom	Pacific Telephone
1975	KIKUCHI TOM	Pacific Telephone
1965	KIKUCHI TOM	Pacific Telephone

11232 CULVER BLVD

Year	Uses	Source
1962	ULBACK FINN	Pacific Telephone

FINDINGS

Year	Uses	Source
1958	BUCKLEY ROBT H	Pacific Telephone
1954	BUCKLEY ROBT H	R. L. Polk & Co.

11233 CULVER BLVD

Year	Uses	Source
1980	Wray Jim	Pacific Telephone
1962	UNDERHILL SALLY	Pacific Telephone
1958	LASON STEVEN J	Pacific Telephone

11235 CULVER BLVD

Year	Uses	Source
2006	MELTON David	Haines Co., Inc.
1962	COULTER RUTH M	Pacific Telephone
1958	MILLERW R MRS	Pacific Telephone
1954	WENSIL MITCHELL	R. L. Polk & Co.

11236 CULVER BLVD

Year	Uses	Source
1980	Gladden John	Pacific Telephone
1970	DIAKONIAK LOU	Pacific Telephone
1965	ANABLE MURIEL R	Pacific Telephone
1962	ANABLE MURIEL R	Pacific Telephone
1958	ROWE EARL F	Pacific Telephone

11238 CULVER BLVD

Year	Uses	Source
2006	RIORDAN Palritcia	Haines Co., Inc.
1985	RIORDAN PATRICIA-ANNE	Pacific Bell
1975	POHMISANO GAYLE	Pacific Telephone
1965	BURLISON BOBBI	Pacific Telephone

11239 CULVER BLVD

Year	Uses	Source
2006	SATO Glenn	Haines Co., Inc.
1991	Rairez Reinaldo	Pacific Bell
	RAIREZREINALDO	Pacific Bell
1985	RAMIREZ REINALDO	Pacific Bell
1965	BAKKEN LARRY J	Pacific Telephone
1962	ODONNEHL COLEMAN	Pacific Telephone
1958	STAGE REX A	Pacific Telephone

FINDINGS

Year	Uses	Source
1954	DO HAAFF BERNARD	R. L. Polk & Co.

11241 CULVER BLVD

Year	Uses	Source
1991	ODONNELLK	Pacific Bell
	ODonnell K	Pacific Bell
1975	O SULLIVAN CATHY	Pacific Telephone
	KARL B J	Pacific Telephone
1965	ODONNELL COLEMAN	Pacific Telephone
1962	CARTER OSCAR N JR	Pacific Telephone
1954	ROTHSCHILD JOE	R. L. Polk & Co.

11242 CULVER BLVD

Year	Uses	Source
2006	KUMARVlpan	Haines Co., Inc.
	SHARMA Vishesh	Haines Co., Inc.
1991	LAMBERTJANET	Pacific Bell
	Lambert John WESTLOS ANGELES	Pacific Bell
	Lambert Janet	Pacific Bell
1980	Briggs W W	Pacific Telephone
1975	BRIGGS W W	Pacific Telephone
1970	BRIGGS W W	Pacific Telephone
1962	HERLITZ JOHN	Pacific Telephone
1958	HERLITZ JOHN	Pacific Telephone
1954	HERLITA JOHN	R. L. Polk & Co.

Culver Blvd

11243 Culver Blvd

Year	Uses	Source
2014	ANDYS WOOD N YOU	EDR Digital Archive
	ANDYS WOOD N YOU	EDR Digital Archive
2010	ANDYS WOOD N YOU	EDR Digital Archive
	ANDYS WOOD N YOU	EDR Digital Archive

CULVER BLVD

11243 CULVER BLVD

Year	Uses	Source
2006	MANOFFAndy	Haines Co., Inc.

FINDINGS

Year	Uses	Source
1980	Donatoni Jos J	Pacific Telephone
1975	DONATONI JOS J	Pacific Telephone
1970	DONATONI JOS J	Pacific Telephone
1958	WERLING EDW M	Pacific Telephone
1954	WERLING EDW M	R. L. Polk & Co.

11244 CULVER BLVD

Year	Uses	Source
1991	Imes B	Pacific Bell
	IMESB	Pacific Bell
1985	LINES B	Pacific Bell
1980	Imes	Pacific Telephone
1975	LMES B	Pacific Telephone

11245 CULVER BLVD

Year	Uses	Source
1985	HERNANDEZ ROBERTO	Pacific Bell
1975	BIILACK FREDA	Pacific Telephone
1965	WYSE E F	Pacific Telephone
1962	FOREMAN GEO R JR	Pacific Telephone
1954	SCHWARZ HERBERT H	R. L. Polk & Co.

11246 CULVER BLVD

Year	Uses	Source
1985	PALAZZOLA VINCENT	Pacific Bell
1970	MAYCRAIG	Pacific Telephone
1965	SZCZEPANEK LILLIAN	Pacific Telephone
1962	SZCZEPAEEK WM	Pacific Telephone
1954	HACKLER DALE H	R. L. Polk & Co.

11250 CULVER BLVD

Year	Uses	Source
1975	LIGHTFOOT JOHN L	Pacific Telephone
1954	MEDLEY GEO M	R. L. Polk & Co.

11254 CULVER BLVD

Year	Uses	Source
1965	GOTTLIEB RAE	Pacific Telephone
1958	GOTTLIEB RAE	Pacific Telephone
1954	RYAN THOS F	R. L. Polk & Co.

FINDINGS

11256 CULVER BLVD

Year	Uses	Source
2006	o WEBBA	Haines Co., Inc.
1970	MACDONALD RALPH A	Pacific Telephone
1962	TAYLOR VIN R	Pacific Telephone
1958	TAYLOR VIN R	Pacific Telephone

11258 CULVER BLVD

Year	Uses	Source
1991	HANYCHELEANOR	Pacific Bell
	Hanzawa M SANTA MONICA 8284930	Pacific Bell
	Hanych Eleanor	Pacific Bell
1985	HANYCH ELEANOR	Pacific Bell
1980	Manych Eleanor	Pacific Telephone
1970	RIGGINS W W	Pacific Telephone
	SCHONBERG CHRI STINE	Pacific Telephone
1965	RIGGINS W W	Pacific Telephone
1962	RIGGINS W W	Pacific Telephone
1958	SCHONBERG NYLA S	Pacific Telephone

11260 CULVER BLVD

Year	Uses	Source
1954	GOIDSTONE ELI	R. L. Polk & Co.

11133 12 CULVER BLVD

Year	Uses	Source
1970	COWAN PERRY	Pacific Telephone

GLOBE AVE

4210 GLOBE AVE

Year	Uses	Source
1954	GREEN FRED E	R. L. Polk & Co.

4211 GLOBE AVE

Year	Uses	Source
1954	JONES DONALD BRUCE	R. L. Polk & Co.

4214 GLOBE AVE

Year	Uses	Source
1954	BEECHER WM J	R. L. Polk & Co.

FINDINGS

4230 GLOBE AVE

Year	Uses	Source
1954	CLAUSEN DAVID W	R. L. Polk & Co.

4314 GLOBE AVE

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
2000	JASPER Alma	Haines & Company
1975	JASPER WAYNE L	Pacific Telephone
1970	JASPER WAYNE L	Pacific Telephone
1965	JASPER WAYNE L	Pacific Telephone
1962	JASPER WAYNE L	Pacific Telephone
1958	JASPER WAYNE L	Pacific Telephone
1954	JASPER WAYNE L	R. L. Polk & Co.

4315 GLOBE AVE

Year	Uses	Source
2006	WULFERTAmy	Haines Co., Inc.
2000	SADEGHI Ali	Haines & Company
1980	Leon Juan	Pacific Telephone
	Leon Rosa M	Pacific Telephone
	Leon S	Pacific Telephone
1970	MELE FRANK	Pacific Telephone
1965	CROWN LIONEL	Pacific Telephone
1958	ROSS CALVARY	Pacific Telephone
1954	ROTH JESSE D	R. L. Polk & Co.

4319 GLOBE AVE

Year	Uses	Source
2006	SANDOVALV Idal	Haines Co., Inc.
2000	SANDOVAL Vidal	Haines & Company
1980	Randall LM	Pacific Telephone
1975	HA11UM JENNIE C	Pacific Telephone
1970	HALLUM JENNLE C	Pacific Telephone
1965	HALLUM JENNIE C	Pacific Telephone
1962	HALLUM JENNIE C	Pacific Telephone

4320 GLOBE AVE

Year	Uses	Source
2006	IBARRA Graciano	Haines Co., Inc.
2000	IBARRA Graciano	Haines & Company

FINDINGS

Year	Uses	Source
1965	BROWN RALPH S	Pacific Telephone
1962	BROWN RALPH S	Pacific Telephone
1958	BOLINAS RAY L	Pacific Telephone
1954	TAYLOR W	R. L. Polk & Co.

4324 GLOBE AVE

Year	Uses	Source
1954	FREEMAN E LEROY	R. L. Polk & Co.

4327 GLOBE AVE

Year	Uses	Source
1970	SHEFTEL HENRY	Pacific Telephone
1965	SHEFTEL HENRY	Pacific Telephone
1962	SHEFTEL HENRY	Pacific Telephone
1954	COLEMAN JAS E	R. L. Polk & Co.

4334 GLOBE AVE

Year	Uses	Source
1965	SORTS LOUISE	Pacific Telephone

4335 GLOBE AVE

Year	Uses	Source
1980	Olmstead Ed	Pacific Telephone
1975	OLMSTEAD ED	Pacific Telephone
1958	PIEDRA RICHARD G	Pacific Telephone
1954	MOOT SAML W	R. L. Polk & Co.

4338 GLOBE AVE

Year	Uses	Source
1991	EELIMA ROBT CULVER CITY	Pacific Bell
1962	COOPER JANET L	Pacific Telephone
1958	SEIFTS ELMER H	Pacific Telephone

4339 GLOBE AVE

Year	Uses	Source
1965	CROGAN JACK P	Pacific Telephone
1962	CROGAN JACK P	Pacific Telephone

4343 GLOBE AVE

Year	Uses	Source
1962	FOBARE BERNADETTE	Pacific Telephone

FINDINGS

Year	Uses	Source
1962	BAKER CAROLE	Pacific Telephone

4347 GLOBE AVE

Year	Uses	Source
1962	HOHENAD ROBT L	Pacific Telephone
1954	VIELE CARL E R	R. L. Polk & Co.

4352 GLOBE AVE

Year	Uses	Source
1958	SJAARDA JOHN MI	Pacific Telephone

4355 GLOBE AVE

Year	Uses	Source
1962	ESPELAND DONALD S	Pacific Telephone

4356 GLOBE AVE

Year	Uses	Source
1965	CULVER CITY	Pacific Telephone
1962	HONER EDW	Pacific Telephone

4359 GLOBE AVE

Year	Uses	Source
1985	SMITH WM J	Pacific Bell
1965	SMITH WM J	Pacific Telephone

4360 GLOBE AVE

Year	Uses	Source
1985	PEDEN EDW	Pacific Bell
1965	PEDEN EDWD	Pacific Telephone
1962	PEDEN EDW D	Pacific Telephone

4363 GLOBE AVE

Year	Uses	Source
1958	MAZEIKA JOS J	Pacific Telephone

4367 GLOBE AVE

Year	Uses	Source
1976	Peskind Kalman	Pacific Telephone

FINDINGS

4372 GLOBE AVE

Year	Uses	Source
1958	COPPINGER AGNES G MRS	Pacific Telephone
1954	COPPINGER AGNES G MRS	R. L. Polk & Co.

4373 GLOBE AVE

Year	Uses	Source
1962	ROGERS WM J JR	Pacific Telephone

LINDBLADE

11181 LINDBLADE

Year	Uses	Source
2000	LOWRY Stephanie	Haines & Company

11182 LINDBLADE

Year	Uses	Source
2000	COMMERCIAL & INDUSTRIAL	Haines & Company
	X WAGNER	Haines & Company
	HOWELL Robert	Haines & Company
	R & HOWELL	Haines & Company
	X SEPULVEDA BLVD	Haines & Company

LINDBLADE ST

11181 LINDBLADE ST

Year	Uses	Source
2006	LOWRY Stephanie	Haines Co., Inc.
1980	Spencer Paul	Pacific Telephone
	Harrison John M	Pacific Telephone
1965	FRAIGUN EDW	Pacific Telephone
1962	FRAIGUN EDW	Pacific Telephone
1958	FRAIGUN EDW	Pacific Telephone

11182 LINDBLADE ST

Year	Uses	Source
2006	SANGUINORuben	Haines Co., Inc.
1991	RMan DillonIns Brokerage SANTA MONICA 3953639	Pacific Bell
	R & Howell Commercial & Industrial	Pacific Bell
	R & HOWELL COMMERCIAL & INDUSTRIAL	Pacific Bell

Year	Uses	Source
1985	R & HOWELL COMMERCIAL & INDUSTRIAL	Pacific Bell
1980	Howells Commercial Gardening & Power Sweeping	Pacific Telephone
	Howell Robt E	Pacific Telephone

S SEPULVEDA BLVD

4145 S SEPULVEDA BLVD

Year	Uses	Source
1965	ELLCO ENGINEERING	Pacific Telephone
1962	Ellco Engineering	Pacific Telephone

4200 S SEPULVEDA BLVD

Year	Uses	Source
1991	Rezek Ron Lighting	Pacific Bell
	Mondo Typo Inc	Pacific Bell
	Artenstein L Marina Del Rey	Pacific Bell
	Artenstein Jeffrey Santa Monica 4501636	Pacific Bell
	REZEK RON LIGHTING	Pacific Bell
	ARTEMIDE SHOWROOM	Pacific Bell
	Artemide Showroom	Pacific Bell
1990	WRIGHT ALISON ARCHITECTS CC	Pacific Bell
1986	SURPRISE STORE THE	Pacific Bell
1985	SURPRISE STORE THE CULVER CITY STORE	Pacific Bell

4204 S SEPULVEDA BLVD

Year	Uses	Source
1991	CARE HOME HEALTH	Pacific Bell
	Care Home Health	Pacific Bell
	Cannon Dean Ratei Palay Del Rey 8211196	Pacific Bell
	Cannon Constructors Inc	Pacific Bell
	CANNON CONSTRUCTORS INC	Pacific Bell
	Care Home Health	Pacific Bell
1986	CANNON CONSTRUCTORS INC CC	Pacific Bell
1985	CR C JOINT VENTURE	Pacific Bell
	CONSTRUCTORS INC	Pacific Bell
1980	From Culver City Telephones Ca	Pacific Telephone
1975	CULVER CITY VAN & STORAGE	Pacific Telephone

FINDINGS

4220 S SEPULVEDA BLVD

Year	Uses	Source
1991	SUNRISE CHAPEL	Pacific Bell
	KINGSLEY & GATES GATES FUNRL DIRS	Pacific Bell
	GATES KINGSLEY & GATES FUNRL DIRS	Pacific Bell
	Gates Kingsley & Gates funrl dirs	Pacific Bell
	Sunrise Chem Dry MARINA DEL REY 8272206	Pacific Bell
	Sunrise Chem Dry SANTA MONICA 4581958	Pacific Bell
	Sunrise Chapel	Pacific Bell
	Kingsley Geo	Pacific Bell
	Kingsley & Gates Gates funrl dirs	Pacific Bell
1985	SUNRISE CHAPEL	Pacific Bell
	GATES KINGSLEY & GATES FUNRL DIRS	Pacific Bell
1980	Sunrise Chapel	Pacific Telephone

4228 S SEPULVEDA BLVD

Year	Uses	Source
1991	CULVER CITY HUBCAPS & WHEELS	Pacific Bell
	CULVER CITY HUB CAPS	Pacific Bell
	Culver City Hubcaps & Wheels	Pacific Bell
	Culver City Hub Caps	Pacific Bell
1986	NANCY CRAIG EXECUTIVE OFFICES CC	Pacific Bell
1985	NANCY CRAIG EXECUTIVE OFFICES	Pacific Bell
	HUABCAPS-CULVER CITY	Pacific Bell
1980	From Los Angeles Telephones Ca	Pacific Telephone
	Nancy Craig	Pacific Telephone

4333 S SEPULVEDA BLVD

Year	Uses	Source
1990	BILTMORE GLASS CO CC	Pacific Bell
1986	BILTMORE GLASS CO CC	Pacific Bell
1971	Biltmore Glass Co	Pacific Telephone

FINDINGS

SEPULVEDA BLVD

4133 SEPULVEDA BLVD

Year	Uses	Source
2006	CHIROCARE	Haines Co., Inc.
2000	GRATZ JAMES DR CHIROPR	Haines & Company
1991	Gratz NS SANTA MONICA 4332	Pacific Bell
	Gratz Michael P MARINA DEL REY 2822	Pacific Bell
	Gratz James Dr chiwopractor	Pacific Bell
1985	GRATZ JAMES DR CHIROPRACTOR	Pacific Bell
1980	Grata James Dr chiropractor	Pacific Telephone
	Gratz G M	Pacific Telephone
1975	GRATZ JAMES DR CHIROPRACTOR	Pacific Telephone

4135 SEPULVEDA BLVD

Year	Uses	Source
2006	JASMINE MARKET	Haines Co., Inc.
2000	KOELMEL Elizabeth	Haines & Company
	1/2 AL BARAKA M	Haines & Company
1991	Joes Grinding	Pacific Bell
1975	BRAX OF CALIF	Pacific Telephone

4137 SEPULVEDA BLVD

Year	Uses	Source
2006	RADIOSHACK A DIV	Haines Co., Inc.
2000	RADIOSHACK A DIV	Haines & Company
	THALER IRWIN	Haines & Company
1991	BEVERLY GLEN CIR LOS ANGELES	Pacific Bell
	Beverly CENTER DR W LOS ANGELES 6526930	Pacific Bell
	TANDY	Pacific Bell
	RADIO SHACK-A DIVISION OF TANDY CORP	Pacific Bell
1980	From Los Angeles Telephones Ca	Pacific Telephone
1975	CULVER ELECTRICAL SERVICES INC	Pacific Telephone
1971	Culver Electrical Service Co	Pacific Telephone
1970	CENTER PET SHOP & GROOMING	Pacific Telephone
1965	CENTER PET SHOP	Pacific Telephone
1962	CENTER PET SHOP	Pacific Telephone
1958	STERN T L & SON RL EST	Pacific Telephone
	STERN T L & SON RL EST	Pacific Telephone

Year	Uses	Source
1958	STERN R P RL EST	Pacific Telephone
1954	STERN T L & SON RL OST	R. L. Polk & Co.
	STERN R P RL EST	R. L. Polk & Co.

4143 SEPULVEDA BLVD

Year	Uses	Source
2000	XXXX	Haines & Company
1980	Thaler Irwin	Pacific Telephone
	Lago Peter	Pacific Telephone
	THALER & LAGO INC	Pacific Telephone
	From Los Angeles Telephones Ca	Pacific Telephone

Sepulveda Blvd

4145 Sepulveda Blvd

Year	Uses	Source
2014	ARCHANGEL MCHAEL ORTHDOX BKSTR	EDR Digital Archive
	ARCHANGEL MCHAEL ORTHDOX BKSTR	EDR Digital Archive
2010	ARCHANGEL MCHAEL ORTHDOX BKSTR	EDR Digital Archive
	ARCHANGEL MCHAEL ORTHDOX BKSTR	EDR Digital Archive

SEPULVEDA BLVD

4145 SEPULVEDA BLVD

Year	Uses	Source
2006	THALER & THALERA	Haines Co., Inc.
	LAW CORP	Haines Co., Inc.
2000	FLATTERY THOS H ATTY	Haines & Company
	MCCLINTON GREGORY LAW OF	Haines & Company
	THALER	Haines & Company
	THALER	Haines & Company
	THALER & THALER A LAW CORP	Haines & Company
1991	Thalheimer M 4770865	Pacific Bell
	Thalhelmer Mona SANTA MONICA 3935001	Pacific Bell
	Thalhemner Mona 3946166	Pacific Bell
	HENDRICKS CHAS R ATTONEY AT LAW	Pacific Bell

FINDINGS

Year	Uses	Source
1991	THALER IRWIN	Pacific Bell
	THALER ROBIN	Pacific Bell
	THALER & THALER-A LAW CORP	Pacific Bell
	Hendricks Chas R Attoney At Law	Pacific Bell
	Thaler Irwin	Pacific Bell
	Thaler Jonas VENICE	Pacific Bell
	Thaler Paul & Linda	Pacific Bell
	Thaler Paul & Linda	Pacific Bell
	Thaler Robin	Pacific Bell
	From Los Angeles Telephones Call	Pacific Bell
	Thalheimer Leisel 2714970	Pacific Bell
1990	THALER IRWIN CC	Pacific Bell
	THALER & THALER-A LAW CORP CULVER CITY	Pacific Bell
1986	THALER IRWIN CC	Pacific Bell
	THALER & THALER-A LAW CORP CULVER CITY	Pacific Bell
1985	GRIMM & SCHOLNICK	Pacific Bell
	THALER IRWIN	Pacific Bell
	THALER ROBIN	Pacific Bell
	THALER & THALER-A LAW CORP	Pacific Bell
1981	THALER IRWIN CC	Pacific Telephone
1980	Rudofer Jos atty	Pacific Telephone
1975	CONTINENTAL TUX SHOPS FORML WR	Pacific Telephone
1971	Newman Graphic Systems	Pacific Telephone
	SOS Printing & Design	Pacific Telephone
1958	BO-PEEP BABY LAUNDRY & DIAPER SUPPLY	Pacific Telephone
	DAVIDSON JEROME B	Pacific Telephone
	LAYETTE SERV	Pacific Telephone
1954	DAVIDSON JEROME B	R. L. Polk & Co.
	LAYETTE SERV	R. L. Polk & Co.

Sepulveda Blvd

4147 Sepulveda Blvd

Year	Uses	Source
2014	PACIFIC COAST HYDROPONICS	EDR Digital Archive
	PACIFIC COAST HYDROPONICS	EDR Digital Archive
2010	PACIFIC COAST HYDROPONICS	EDR Digital Archive

Year	Uses	Source
2010	PC HYDRO	EDR Digital Archive
	JIM SHAW PLUMBING	EDR Digital Archive
	PACIFIC COAST HYDROPONICS	EDR Digital Archive
	JIM SHAW PLUMBING	EDR Digital Archive
	PC HYDRO	EDR Digital Archive

SEPULVEDA BLVD

4147 SEPULVEDA BLVD

Year	Uses	Source
2006	PAC COAST	Haines Co., Inc.
	HYDROPONICS	Haines Co., Inc.
2000	XXXX	Haines & Company
1991	Leas Square Dance Shop	Pacific Bell
	Open Squares The	Pacific Bell
	SQUARE DANCING INFORMATION	Pacific Bell
	OPEN SQUARES THE	Pacific Bell
	LEA S SQUARE DANCE SHOP	Pacific Bell
	Square Dancing Information	Pacific Bell
	Openshaw J SANTA MONICA 4518960	Pacific Bell
1990	BAGGE & SONS CC	Pacific Bell
1986	BAGGE & SONS CC	Pacific Bell
1985	REPROGRAPHICS	Pacific Bell
1981	BAGGE & SONS CC	Pacific Telephone
1980	REPROGRAPHICS	Pacific Telephone
1970	D & L DENTAL LAB	Pacific Telephone

Sepulveda Blvd

4149 Sepulveda Blvd

Year	Uses	Source
2010	NOVELTOY INC	EDR Digital Archive
	NOVELTOY INC	EDR Digital Archive

SEPULVEDA BLVD

4149 SEPULVEDA BLVD

Year	Uses	Source
2006	NOTARIES R US	Haines Co., Inc.
	NOVELTOY INC	Haines Co., Inc.

Year	Uses	Source
2000	CALIFORNIA WHOLESALE ART	Haines & Company
	STREET PL	Haines & Company

Sepulveda Blvd

4151 Sepulveda Blvd

Year	Uses	Source
2010	LIGHTING CONTROL SERVICES INC	EDR Digital Archive
	DSID INC	EDR Digital Archive
	NEW LATIN IMAGE CORP	EDR Digital Archive
	INTANTE-JAVREGUI BETTY	EDR Digital Archive
	DSID INC	EDR Digital Archive
	NEW LATIN IMAGE CORP	EDR Digital Archive
	INTANTE-JAVREGUI BETTY	EDR Digital Archive
	LIGHTING CONTROL SERVICES INC	EDR Digital Archive

SEPULVEDA BLVD

4151 SEPULVEDA BLVD

Year	Uses	Source
2006	LAZERIMAGE	Haines Co., Inc.
2000	XXXX	Haines & Company
1991	Ennis Oliver D Inc bevrg equip	Pacific Bell
	Ennis Richard 8378753	Pacific Bell
	Ennis T 8264066	Pacific Bell
	Ennis S WESTLOS ANGELES 4734790	Pacific Bell
1985	ENNIS OLIVER D INC BEVRG EQUIP	Pacific Bell
1980	Ennis Oliver D Inc bevrg equip	Pacific Telephone
1975	ENNIS OLIVER D INC BEVRG EQUIP	Pacific Telephone
	ENNIS OLIVER D INC BEVRG EQUIP	Pacific Telephone

4153 SEPULVEDA BLVD

Year	Uses	Source
2006	LOPEZWilliam	Haines Co., Inc.
2000	ENNIS Robert	Haines & Company

FINDINGS

Sepulveda Blvd

4155 Sepulveda Blvd

Year	Uses	Source
2014	WESTSIDE BRAKE & TIRES INC	EDR Digital Archive
	WESTSIDE BRAKE & TIRES INC	EDR Digital Archive
2010	WESTSIDE BRAKE & TIRES INC	EDR Digital Archive
	WESTSIDE BRAKE & TIRES INC	EDR Digital Archive

SEPULVEDA BLVD

4155 SEPULVEDA BLVD

Year	Uses	Source
2006	WESTSIDE BRAKES	Haines Co., Inc.
	BAGGE&SON	Haines Co., Inc.
	TIRES	Haines Co., Inc.
2000	PALMQUIST Diane	Haines & Company
	WESTSIDE BRAKE	Haines & Company
	WESTSIDE	Haines & Company
1991	Fro Los Angeles Telephones Ca 18703145	Pacific Bell
	BAGGE & SON	Pacific Bell
1990	BAGGE & SON CC	Pacific Bell
1986	BAGGE & SON CC	Pacific Bell
1985	BAGGE & SON	Pacific Bell
1981	BAGGE & SON CC	Pacific Telephone
1980	BIBA & SON	Pacific Telephone
	From Los Angeles Telephones Cal	Pacific Telephone
1975	BAGGE & SON	Pacific Telephone
	PORSCHE PLACETHAT	Pacific Telephone
1971	Bagge & Son	Pacific Telephone

Sepulveda Blvd

4200 Sepulveda Blvd

Year	Uses	Source
2014	TELEWISE LLC	EDR Digital Archive
	CREATIVE RESOURCE ASSOC INC	EDR Digital Archive
	STYLE MINED	EDR Digital Archive
	KJARO LUNA LLC	EDR Digital Archive
	ROJO 16 AMERICA CORP	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	NURTURE GENERATIONS	EDR Digital Archive
	MIKE SHABTAI CORPORATION	EDR Digital Archive
	EXCELA CREATIVE LLC	EDR Digital Archive
	DEPENDBLE CLEAN GREEN CLVER CY	EDR Digital Archive
	NURTURE GENERATIONS	EDR Digital Archive
	MIKE SHABTAI CORPORATION	EDR Digital Archive
	EXCELA CREATIVE LLC	EDR Digital Archive
	ROJO 16 AMERICA CORP	EDR Digital Archive
	STYLE MINED	EDR Digital Archive
	KJARO LUNA LLC	EDR Digital Archive
	DEPENDBLE CLEAN GREEN CLVER CY	EDR Digital Archive
	CREATIVE RESOURCE ASSOC INC	EDR Digital Archive
	TELEWISE LLC	EDR Digital Archive
2010	CREATIVE RESOURCE ASSOC INC	EDR Digital Archive
	CAL SPAS	EDR Digital Archive
	REZEK INC	EDR Digital Archive
	WESTOAK ONE LLC	EDR Digital Archive
	CAL SPAS	EDR Digital Archive
	REZEK INC	EDR Digital Archive
	CREATIVE RESOURCE ASSOC INC	EDR Digital Archive
	WESTOAK ONE LLC	EDR Digital Archive

SEPULVEDA BLVD

4200 SEPULVEDA BLVD

Year	Uses	Source
2006	TALLMAN & CO	Haines Co., Inc.
	SERVICES INC	Haines Co., Inc.
	FLUX Busi NESS	Haines Co., Inc.
2000	REZEK RON LIG	Haines & Company
	TALLMAN & CO	Haines & Company
	CREATIVE RESOURCE ASSOC	Haines & Company
	ARTEMIDE SHO	Haines & Company
1975	KLEIN-NORTON GO MENS FURNSHNGS	Pacific Telephone
1971	Klein Norton Co mens furnshngs	Pacific Telephone
1970	KLEIN-NORTON CO MEN S FURNSHNGS	Pacific Telephone
1965	KIEIN-NORTON CO MEN S FURNSHNGS	Pacific Telephone

Year	Uses	Source
1962	ICLEIN-NORTON CO MEN S FURNSHNGS	Pacific Telephone
1958	LLEIN-NORNTON CO MEN S FURNSHNGS	Pacific Telephone

Sepulveda Blvd

4201 Sepulveda Blvd

Year	Uses	Source
2014	PERES PROJECTS	EDR Digital Archive
	BIJ BUSINESS SERVICES	EDR Digital Archive
	ADVANCED BUSINESS SOLUTIONS	EDR Digital Archive
	PERES PROJECTS	EDR Digital Archive
	BIJ BUSINESS SERVICES	EDR Digital Archive
	ADVANCED BUSINESS SOLUTIONS	EDR Digital Archive
2010	AUCTION DEPOT LA	EDR Digital Archive
	SUCCOR PRIVATE SEC SVCS INC	EDR Digital Archive
	AGUA AZUL POOL & SPA SERVICE	EDR Digital Archive
	G2C2 MEDIA INC	EDR Digital Archive
	AUCTION DEPOT LA	EDR Digital Archive
	SUCCOR PRIVATE SEC SVCS INC	EDR Digital Archive
	AGUA AZUL POOL & SPA SERVICE	EDR Digital Archive
	G2C2 MEDIA INC	EDR Digital Archive

SEPULVEDA BLVD

4201 SEPULVEDA BLVD

Year	Uses	Source
2006	WALDEN MEDICAL	Haines Co., Inc.
	SUPPLY	Haines Co., Inc.
2000	VICTORIAS HIDDEN G	Haines & Company
	TECNO BU	Haines & Company
	1/2 LASTING IMPRESSION	Haines & Company
1991	JRW Graphics	Pacific Bell
	Popkin Brce Printing	Pacific Bell
	Suzuki Dental Lab	Pacific Bell
	SUZUKI DENTAL LAB	Pacific Bell
1980	Royalty Distributors Inc	Pacific Telephone
	Buan Industries Inc	Pacific Telephone
	Buban	Pacific Telephone

Year	Uses	Source
1975	BUAN INDUSTRIES INC	Pacific Telephone

Sepulveda Blvd

4203 Sepulveda Blvd

Year	Uses	Source
2014	INTEGRAL SYSTEMS INC	EDR Digital Archive
	INTEGRAL SYSTEMS INC	EDR Digital Archive
2010	INTEGRAL SYSTEMS INC	EDR Digital Archive
	INTEGRAL SYSTEMS INC	EDR Digital Archive

SEPULVEDA BLVD

4203 SEPULVEDA BLVD

Year	Uses	Source
2006	INTEGRAL SYSTEMS	Haines Co., Inc.
	INTEGRAL SYSTEMS	Haines Co., Inc.
2000	ACRYLIC SPECIA	Haines & Company
1991	Shellys Bridal Shop	Pacific Bell
	SHELLY S BRIDAL SHOP	Pacific Bell
1985	SHELLY S BRIDAL SHOP	Pacific Bell
1980	ARTESIA Linkletter Dance Studio	Pacific Telephone
	Rabano Dance Academy	Pacific Telephone
	Rabano	Pacific Telephone
1975	ART LINKLETTER DANCE STUDIO	Pacific Telephone
	LINKLETTER DANCE STUDIO OF CULVER CITY	Pacific Telephone

Sepulveda Blvd

4204 Sepulveda Blvd

Year	Uses	Source
2014	A-1 ELECTRIC SERVICE CO INC	EDR Digital Archive
	A-1 ELECTRIC SERVICE CO INC	EDR Digital Archive
2010	A-1 ELECTRIC COMPANY INC	EDR Digital Archive
	A-1 ELECTRIC SERVICE CO INC	EDR Digital Archive
	A-1 ELECTRIC COMPANY INC	EDR Digital Archive
	A-1 ELECTRIC SERVICE CO INC	EDR Digital Archive

FINDINGS

SEPULVEDA BLVD

4204 SEPULVEDA BLVD

Year	Uses	Source
2006	A 1 ELECTRIC CO	Haines Co., Inc.
2000	PIEPER Thomas	Haines & Company
	A 1 ELECTRIC CO	Haines & Company
1962	WALLACE R G COMPANY INC	Pacific Telephone
	TIME SCIEW CO INC	Pacific Telephone
1958	WALLACE R G COMPANY INC	Pacific Telephone
	WALLACE COMPANY R G INC	Pacific Telephone
	R G WALLACE CO INC	Pacific Telephone
	Wallace R G Company Inc	Pacific Telephone
	R G Wallace Company Inc	Pacific Telephone

Sepulveda Blvd

4205 Sepulveda Blvd

Year	Uses	Source
2014	AAA GLASS MIRROR	EDR Digital Archive
	AAA GLASS MIRROR	EDR Digital Archive
2010	AAA GLASS MIRROR	EDR Digital Archive
	SHEPARD GLASS MIRROR	EDR Digital Archive
	ALL STAR GLASS CO	EDR Digital Archive
	AAA GLASS MIRROR	EDR Digital Archive
	SHEPARD GLASS MIRROR	EDR Digital Archive
	ALL STAR GLASS CO	EDR Digital Archive

SEPULVEDA BLVD

4205 SEPULVEDA BLVD

Year	Uses	Source
2006	ALL STAR GLASS	Haines Co., Inc.
2000	ALL STAR	Haines & Company
	BARAL Charles	Haines & Company
1991	ALL STAR GLASS	Pacific Bell
	ALL-STAR GLASS	Pacific Bell
1980	ALL STAR GLASS CO	Pacific Telephone
1965	KAUFMAN LEE & SON GENL CONTR	Pacific Telephone

4208 SEPULVEDA BLVD

Year	Uses	Source
2000	XXXX	Haines & Company

Sepulveda Blvd

4215 Sepulveda Blvd

Year	Uses	Source
2014	REPROGRAPHICS INC	EDR Digital Archive
	SHELLBUTT INC	EDR Digital Archive
	SHELLBUTT INC	EDR Digital Archive
	REPROGRAPHICS INC	EDR Digital Archive
2010	REPROGRAPHICS INC	EDR Digital Archive
	SHELLBUTT INC	EDR Digital Archive
	SHELLBUTT INC	EDR Digital Archive
	REPROGRAPHICS INC	EDR Digital Archive

SEPULVEDA BLVD

4215 SEPULVEDA BLVD

Year	Uses	Source
2006	REPROGRAPHICS	Haines Co., Inc.
2000	SILPASVANG S	Haines & Company
	REPROGRA	Haines & Company
1991	Reprographics	Pacific Bell
	REPROGRAPHICS	Pacific Bell
1985	NATIONAL LIFE & ACCIDENT INS CO	Pacific Bell
	FRLTTS W H INS	Pacific Bell
1980	NATIONAL LIFE INS CO OF VERMONT Generai Agencies	Pacific Telephone
	National Life & Accident Ins Co	Pacific Telephone
	Fritts WH ins	Pacific Telephone
1975	NATIONAL LIFE & ACCIDENT INS CO	Pacific Telephone
	FRITTS W H INS	Pacific Telephone

Sepulveda Blvd

4217 Sepulveda Blvd

Year	Uses	Source
2014	ALATORRE PEDRO	EDR Digital Archive
	KEITH KC LEE INC	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	ALATORRE PEDRO	EDR Digital Archive
	KEITH KC LEE INC	EDR Digital Archive
2010	ALATORRE PEDRO	EDR Digital Archive
	ALATORRE PEDRO	EDR Digital Archive

SEPULVEDA BLVD

4217 SEPULVEDA BLVD

Year	Uses	Source
2006	ALATORREPEDRO	Haines Co., Inc.
	NOTARY PUBLIC	Haines Co., Inc.
	INCOMETAX	Haines Co., Inc.
	SERVICE CENTER	Haines Co., Inc.
	TIJUANA EXPRess	Haines Co., Inc.
	TRAVEL	Haines Co., Inc.
	EXCELLENCE	Haines Co., Inc.
	TAX SERVICE	Haines Co., Inc.
	ALATORRE INCOME	Haines Co., Inc.
	NOTARYPUBUC	Haines Co., Inc.
2000	ALATORRE INCOME TAX SE	Haines & Company
	ALATORRE PEDRO NOTARY P	Haines & Company
	INCOME TAX SERVICE C	Haines & Company
	NOTARY P	Haines & Company
	SILPASVANG S	Haines & Company
	TIJUANA EX	Haines & Company
	TRAVEL EXCEL	Haines & Company
1991	ROSA S SHOP	Pacific Bell
	Rosas Shop	Pacific Bell
1985	PACIFIC DISCOUNT	Pacific Bell
	PACIFIC DISCOUNT	Pacific Bell
	CENTURY PRINTING	Pacific Bell
1980	Century Promotions Inc	Pacific Telephone
	Century Printing	Pacific Telephone
1975	MEDI-CALL	Pacific Telephone

FINDINGS

Sepulveda Blvd

4219 Sepulveda Blvd

Year	Uses	Source
2014	SHEAR EXPRESSION	EDR Digital Archive
	SHEAR EXPRESSION	EDR Digital Archive
2010	PEREZ NORMA	EDR Digital Archive
	PEREZ NORMA	EDR Digital Archive

SEPULVEDA BLVD

4219 SEPULVEDA BLVD

Year	Uses	Source
2000	COFFEY SOUND & COMMUNICA	Haines & Company
	COOPER Patricia	Haines & Company
	QUALITY COMMUNICA	Haines & Company
1991	Loyia Auto Interiors	Pacific Bell
	LOYIA AUTO INTERIORS	Pacific Bell
1975	AMERIGCAT ISTRIBUTION & REPAIR	Pacific Telephone
	D A SPEEDOMETERS	Pacific Telephone
1970	MOELLER UPHOLSTERY FORMERLY GOEDECKE	Pacific Telephone

Sepulveda Blvd

4220 Sepulveda Blvd

Year	Uses	Source
2014	SERVICE CORP INTERNATIONAL	EDR Digital Archive
	SERVICE CORP INTERNATIONAL	EDR Digital Archive
2010	SERVICE CORP INTERNATIONAL	EDR Digital Archive
	SERVICE CORP INTERNATIONAL	EDR Digital Archive

SEPULVEDA BLVD

4220 SEPULVEDA BLVD

Year	Uses	Source
2006	GATESKINGSLEY&	Haines Co., Inc.
	GATES SMITH	Haines Co., Inc.
2000	GATES KINGSLEY & GATES	Haines & Company
1991	Thompson Gary A	Pacific Bell
	THOMPSON GARY A	Pacific Bell

FINDINGS

Year	Uses	Source
1985	KINGSLEY & GATES GATES FUNRL DIRS	Pacific Bell
	FREW ERIC	Pacific Bell
1980	KINGSLEY & GATES GATES funrl dirs	Pacific Telephone
	Kingsley Geo	Pacific Telephone
1975	KINGSLEY & GATES GATES FUNRL DIRS	Pacific Telephone
	PARSHALL JOS	Pacific Telephone
1970	GATES KINGSLEY & GATES FUNRI DIRM	Pacific Telephone
	KINGSLEY & GATES GATES FUNRL DIRE	Pacific Telephone
1965	SCHAGEMAN ANNE	Pacific Telephone
	SCHAGEMAN MERCEDES R	Pacific Telephone
	KINGSLEY & GATES GATES FUNRL DIRS	Pacific Telephone
	PEAIRS GEO H	Pacific Telephone
	GATES KINGSLEY & GATES FUNRL DIRS	Pacific Telephone
1962	KINGSLEY & GATES GATES FUNRL DIRS	Pacific Telephone
	GATES KINGSLEY & GATES FUNRL DIRS	Pacific Telephone

Sepulveda Blvd

4221 Sepulveda Blvd

Year	Uses	Source
2014	PIKE PHOTOCOPY INC	EDR Digital Archive
	PIKE PHOTOCOPY INC	EDR Digital Archive
2010	PIKE PHOTOCOPY INC	EDR Digital Archive
	PIKE PHOTOCOPY INC	EDR Digital Archive

SEPULVEDA BLVD

4221 SEPULVEDA BLVD

Year	Uses	Source
2006	PIKE PHOTOCOPY	Haines Co., Inc.
2000	PIKE PHOTOCOPY INC	Haines & Company
	DELL Aquila	Haines & Company
1991	PIKE PHOTOCOPY INC	Pacific Bell
	Pike Photocopy Inc	Pacific Bell

FINDINGS

Year	Uses	Source
1985	PIKE PHOTOCOPY INC	Pacific Bell
1980	Country Villa Service Corp	Pacific Telephone

4224 SEPULVEDA BLVD

Year	Uses	Source
2000	THE MEMORIAL GARDEN PLAN	Haines & Company
1991	CULVER SEPULVEDA CHIROPRACTIC OFFICE	Pacific Bell
	Culver Sepulveda Chiropract Ic Office	Pacific Bell
	Goodis Jos DDS	Pacific Bell
	Holistic Health Chiropractic Ofc	Pacific Bell
	Muller Lee G DC	Pacific Bell
	Muller Lee G Dr Culver Sepulveda Chiropractic	Pacific Bell
	CULVER-SEPULVEDA CHIROPRACTIC OFFICE	Pacific Bell
	CULVERSEPULVEDA CHIROPRACTIC OFFICE	Pacific Bell
	GOODISJOSDDS	Pacific Bell
	HOLISTIC HEALTH CHIROPRACTIC OFC	Pacific Bell
	MULLERLEE G DC	Pacific Bell
	MULLER LEE G DR CULVER SEPULVEDA CHIROPRACTIC	Pacific Bell
1990	CULVER-SEPULVEDA CHIROPRACTIC OFFICE CC	Pacific Bell
1986	CULVER-SEPULVEDA CHIROPRACTIC OFFICE CC	Pacific Bell
1985	CULVER SEPULVEDA CHIROPRACTIC OFFICE	Pacific Bell
	GOODIS JOS DDS	Pacific Bell
	HOLISTIC HEALTH CHIROPRACTIC OFC	Pacific Bell
	MULLER LEE G DC	Pacific Bell
	MULLER LEE G DR CULVER SEPULVEDA CHIROPRACTIC	Pacific Bell
	CEPEDA BEVERLY DC	Pacific Bell
1980	Goodis Jos DDS	Pacific Telephone
1975	DE PAULO MEDICAL GROUP	Pacific Telephone
	DE PAULO VINCENT MD	Pacific Telephone
	GOODIS JOS DOS	Pacific Telephone

FINDINGS

4225 SEPULVEDA BLVD

Year	Uses	Source
2000	KONZELMAN Robert	Haines & Company
1980	Meat Market The tavrn	Pacific Telephone
	Meat Market Saloon	Pacific Telephone
1958	NELSON S PAINT & WALLPAPER STORE	Pacific Telephone
1954	NELSON S PAINT & WALLPAPER STORE	R. L. Polk & Co.

4227 SEPULVEDA BLVD

Year	Uses	Source
1970	SWIAT AL AUTO REPAIR	Pacific Telephone

Sepulveda Blvd

4228 Sepulveda Blvd

Year	Uses	Source
2014	CULVER CITY HUBCAPS	EDR Digital Archive
	CULVER CITY HUBCAPS	EDR Digital Archive
2010	CULVER CITY HUBCAPS	EDR Digital Archive
	SERVICE CENTER GARAGE & BDY SP	EDR Digital Archive
	CULVER CITY HUBCAPS	EDR Digital Archive
	SERVICE CENTER GARAGE & BDY SP	EDR Digital Archive

SEPULVEDA BLVD

4228 SEPULVEDA BLVD

Year	Uses	Source
2006	VICTORS BODY	Haines Co., Inc.
	CULVERCITY	Haines Co., Inc.
	HUBCAPS	Haines Co., Inc.
	WHEELS	Haines Co., Inc.
	CULVRCTY	Haines Co., Inc.
	HUBCAPS	Haines Co., Inc.
	WHEELS	Haines Co., Inc.
	SERVICE CENTER	Haines Co., Inc.
	GARAGE&BODY	Haines Co., Inc.
	VICTORS	Haines Co., Inc.
	VICTORS AUTO 31 W	Haines Co., Inc.
	REPAIR	Haines Co., Inc.

FINDINGS

Year	Uses	Source
2000	BERNARD Gloria	Haines & Company
	CULVER CITY HUB CAPS	Haines & Company
	SERVICE CENTER GARAGE & BODY SHP	Haines & Company
	VICTORS AUTO R	Haines & Company
	VICTORS BODY SHOP	Haines & Company
	VICTORS SERV CT GARAGE & BODY SH	Haines & Company
1991	D A Speedometers	Pacific Bell
	D A Speedometers & Service Center	Pacific Bell
	D A SPEEDOMETERS	Pacific Bell
	D A SPEEDOMETERS & SERVICE CENTER	Pacific Bell
	SERVICE CENTER GARAGE & BODY SH OCEAN PARK CORP	Pacific Bell
	Service Corp Internatl WESTLOS ANGELES	Pacific Bell
	SERVICE CENTER GARAGE & BODY SH OCEAN PARK CORP	Pacific Bell
1985	D A SPEEDOMETERS	Pacific Bell
	DA SPEEDOMETERS & SERVICE CENTER	Pacific Bell
1971	SUNRAY LIGHTING INC	Pacific Telephone
1970	SUN-RAY LIGHTING INC	Pacific Telephone
	SUNRAY LIGHTING INC	Pacific Telephone
1965	SUNRAY LIGHTING INC	Pacific Telephone
1962	SUNRAY LIGHTING INC	Pacific Telephone
1958	MARTY S FOREIGN MOTORS	Pacific Telephone
	MARTY S FOREIGN MOTORS	Pacific Telephone
	STEWART WM SURIRAY LIGHTING INC	Pacific Telephone
	SUNRAY LIGHTING INC	Pacific Telephone
	SUNRAY LIGHTING INC	Pacific Telephone
1954	SUNRAY SEARCHLIGHT ADVERTISING	R. L. Polk & Co.
	SUNRAY SEARCHLIGHT ADVERTISING	R. L. Polk & Co.
	STEWART WM SUNRAY SEARCHLIGHT ADVERTISING	R. L. Polk & Co.
	MARTY S FOREIGN MOTORS	R. L. Polk & Co.
	VIARTY S FOREIGN MOTORS	R. L. Polk & Co.

FINDINGS

Sepulveda Blvd

4229 Sepulveda Blvd

Year	Uses	Source
2014	LIBRERIA ABBA PADRE	EDR Digital Archive
	LIBRERIA ABBA PADRE	EDR Digital Archive
2010	LIBRERIA ABBA PADRE	EDR Digital Archive
	LIBRERIA ABBA PADRE	EDR Digital Archive

SEPULVEDA BLVD

4229 SEPULVEDA BLVD

Year	Uses	Source
2006	LUBRERIAABBA	Haines Co., Inc.
	PADRE	Haines Co., Inc.
1970	GIULIANO CATERING	Pacific Telephone
1965	THOMPSON ANTIQUES THE	Pacific Telephone
	THOMPSON ELLSWORTH A	Pacific Telephone
1962	THOMPSON ANTIQUES THE	Pacific Telephone
	THOMPSON ELLSWORTH A	Pacific Telephone
1958	THOMPSON ELLSWORTH A	Pacific Telephone
	THOMPSON ANTIQUES THE	Pacific Telephone
1954	THOMPSONANTIQUES THE	R. L. Polk & Co.
	THOMPSON ELLSWORTH A	R. L. Polk & Co.

Sepulveda Blvd

4232 Sepulveda Blvd

Year	Uses	Source
2014	ALI SON INC	EDR Digital Archive
	TOLEDO VICTOR	EDR Digital Archive
	VICTORS BODY SHOP	EDR Digital Archive
	ALI SON INC	EDR Digital Archive
	TOLEDO VICTOR	EDR Digital Archive
	VICTORS BODY SHOP	EDR Digital Archive
2010	VICTORS BODY SHOP	EDR Digital Archive
	TOLEDO VICTOR	EDR Digital Archive
	ALI SON INC	EDR Digital Archive
	VICTORS BODY SHOP	EDR Digital Archive
	ALI SON INC	EDR Digital Archive

Year	Uses	Source
2010	TOLEDO VICTOR	EDR Digital Archive

4235 Sepulveda Blvd

Year	Uses	Source
2014	ADOPT AND SHOP	EDR Digital Archive
	ADOPT AND SHOP	EDR Digital Archive

SEPULVEDA BLVD

4235 SEPULVEDA BLVD

Year	Uses	Source
2006	STORE	Haines Co., Inc.
	GOODYEARTIRE	Haines Co., Inc.
	FOOGERTS	Haines Co., Inc.
2000	LINDQVIST Irgvar	Haines & Company
	LINDQUIST Saab	Haines & Company
1991	LINDQVIST MOTORS	Pacific Bell
	LINDQVIST MOTORS	Pacific Bell
1985	LINDQUIST MOTORS	Pacific Bell
1980	Lindros S	Pacific Telephone
	LINDQVIST MOTORS	Pacific Telephone
1975	LINDOVIST MOTORS	Pacific Telephone
1970	LINDQVIST MOTORS	Pacific Telephone

Sepulveda Blvd

4238 Sepulveda Blvd

Year	Uses	Source
2014	DOMINOS STORE 7805	EDR Digital Archive
	DOMINOS STORE 7805	EDR Digital Archive
2010	DOMINOS STORE 7805	EDR Digital Archive
	DOMINOS STORE 7805	EDR Digital Archive

SEPULVEDA BLVD

4238 SEPULVEDA BLVD

Year	Uses	Source
2006	DOMINOS PIZZA	Haines Co., Inc.
	CULVER CITY	Haines Co., Inc.
2000	DOMINOS	Haines & Company

Year	Uses	Source
1970	TOKYO NURSERY	Pacific Telephone

Sepulveda Blvd

4239 Sepulveda Blvd

Year	Uses	Source
2010	NATIONAL SMOG TEST ONLY	EDR Digital Archive
	NATIONAL SMOG TEST ONLY	EDR Digital Archive

SEPULVEDA BLVD

4239 SEPULVEDA BLVD

Year	Uses	Source
2006	NATLSMOG TEST	Haines Co., Inc.

4242 SEPULVEDA BLVD

Year	Uses	Source
2000	XXXX	Haines & Company

4261 SEPULVEDA BLVD

Year	Uses	Source
2000	X CULVER BLVD	Haines & Company
	XXXX	Haines & Company

4313 SEPULVEDA BLVD

Year	Uses	Source
2006	KMG FINANCIAL 310 W	Haines Co., Inc.
2000	DIGILINK TECHN	Haines & Company

4315 SEPULVEDA BLVD

Year	Uses		Source
2006	ENGINEERING INC		Haines Co., Inc.
	DAKOTA		Haines Co., Inc.
2000	DEBARTOLO Mardelle		Haines & Company
	DAKOTA ENGINEERING INC		Haines & Company
1991	DAKOTA ENGINEERING INC		Pacific Bell
	Dakota Engineering Inc		Pacific Bell
1990	DAKOTA ENGINEERING INC	CC	Pacific Bell
1986	DAKOTA ENGINEERING INC	CC	Pacific Bell
1975	DAKOTA ENGINEERING INC		Pacific Telephone
1971	Dakota Engineering Inc		Pacific Telephone

Year	Uses	Source
1970	DAKOTA ENGINEERING INC	Pacific Telephone
1965	DAKOTA ENGINEERING INC	Pacific Telephone
1962	DAKOTA ENGINEERING INC	Pacific Telephone

Sepulveda Blvd

4316 Sepulveda Blvd

Year	Uses	Source
2014	BOULEVARD MUSIC	EDR Digital Archive
	BOULEVARD MUSIC	EDR Digital Archive
2010	BOULEVARD MUSIC	EDR Digital Archive
	BOULEVARD MUSIC	EDR Digital Archive

SEPULVEDA BLVD

4316 SEPULVEDA BLVD

Year	Uses	Source
2006	BROWN Lawrence	Haines Co., Inc.
	BOULEVARDMUSIC	Haines Co., Inc.
2000	MANDELL Gary	Haines & Company
	BROWN Law	Haines & Company
	BROWN Law	Haines & Company
	BOULEVARD	Haines & Company
1991	JM Market	Pacific Bell
	JM MARKET	Pacific Bell
1985	*I MARKET	Pacific Bell
1980	Stanis Liquors	Pacific Telephone
	Stanis W	Pacific Telephone

Sepulveda Blvd

4317 Sepulveda Blvd

Year	Uses	Source
2010	NICHOLAS IDA	EDR Digital Archive
	KRISTIN SENDEJAS-SALAZAR	EDR Digital Archive
	NICHOLAS IDA	EDR Digital Archive
	KRISTIN SENDEJAS-SALAZAR	EDR Digital Archive

SEPULVEDA BLVD

4317 SEPULVEDA BLVD

Year	Uses	Source
2006	SHEAR	Haines Co., Inc.
	EXPRess ION	Haines Co., Inc.
2000	LOPEZ OLGA BTY SALN	Haines & Company
	SHEAR EXPRE	Haines & Company
	X WAGNER	Haines & Company

Sepulveda Blvd

4318 Sepulveda Blvd

Year	Uses	Source
2014	LITTLE ED AUTO SERVICE	EDR Digital Archive
	LITTLE ED AUTO SERVICE	EDR Digital Archive
2010	LITTLE ED AUTO SERVICE	EDR Digital Archive
	LITTLE ED AUTO SERVICE	EDR Digital Archive

SEPULVEDA BLVD

4318 SEPULVEDA BLVD

Year	Uses	Source
2006	ED UTTLE AUTO	Haines Co., Inc.
	SERVICE	Haines Co., Inc.
	LITTLE ED AUTO	Haines Co., Inc.
	SERVICE	Haines Co., Inc.
2000	ED LITTLE AUTO SE	Haines & Company
	LITTLE ED AUTO SE	Haines & Company
1991	ED Lf TTLE AUTO SERVICE	Pacific Bell
	UTTLE ED AUTO SERVICE	Pacific Bell
	ED LFTTLE AUTO SERVICE	Pacific Bell
	UTTLE ED AUTO SERVICE	Pacific Bell
1985	ED LUTTLE AUTO SERVICE	Pacific Bell
	LITTLE ED AUTO SERVICE	Pacific Bell
1980	EQ LITTLE AUTO SERVICE	Pacific Telephone
	LITTLE ED AUTO SERVICE	Pacific Telephone
1975	ED LITTLE AUTO SERVICE	Pacific Telephone
	LITTLE ED AUTO SERVICE	Pacific Telephone

FINDINGS

Sepulveda Blvd

4319 Sepulveda Blvd

Year	Uses	Source
2014	ZENA SPA	EDR Digital Archive
	A1 BEAUTY SALON	EDR Digital Archive
	ZENAS NAILS & DAY SPA	EDR Digital Archive
	A1 BEAUTY SALON	EDR Digital Archive
	ZENAS NAILS & DAY SPA	EDR Digital Archive
	ZENA SPA	EDR Digital Archive
2010	ZENAS NAILS & DAY SPA	EDR Digital Archive
	ZENAS NAILS & DAY SPA	EDR Digital Archive

SEPULVEDA BLVD

4319 SEPULVEDA BLVD

Year	Uses	Source
2006	MARIN TAILOR	Haines Co., Inc.
	OVERLAND SHOE	Haines Co., Inc.
	REPAIR	Haines Co., Inc.
2000	OMAR TAIL	Haines & Company
	OVERLAND SHOE R	Haines & Company
1991	Computype & Graphics	Pacific Bell
	Computype Publishing	Pacific Bell
	COMPUTYPE & GRAPHICS	Pacific Bell
1985	MARINA DEL REY PRINTING	Pacific Bell
1980	Marina Del Rey Printing	Pacific Telephone

Sepulveda Blvd

4320 Sepulveda Blvd

Year	Uses	Source
2014	A 1 JEWELRY & LOAN	EDR Digital Archive
	A 1 JEWELRY & LOAN	EDR Digital Archive
2010	PLEASANT VIEW HOME INC	EDR Digital Archive
	A 1 JEWELRY & LOAN	EDR Digital Archive
	A 1 JEWELRY & LOAN	EDR Digital Archive
	PLEASANT VIEW HOME INC	EDR Digital Archive

SEPULVEDA BLVD

4320 SEPULVEDA BLVD

Year	Uses	Source
2006	A 1 JEWELRY	Haines Co., Inc.
	LOAN PWNBRKR	Haines Co., Inc.
	A 1 JEWELRY&	Haines Co., Inc.
	LOAN PWNBRKRS	Haines Co., Inc.
2000	A 1 JEWELRY & LOAN	Haines & Company
	CRUISE Marc	Haines & Company
1991	From Las Angeles Telephones Cal 18701094	Pacific Bell
	A 1 JEWELRY & LOAN pwnrkrs	Pacific Bell
	A-1 JEWELRY & LOAN PWNRKRS	Pacific Bell
	A Joseph Contractors SANTA MONICA 3931914	Pacific Bell
	A I Joseph Contractors LOS ANGELES 4775529	Pacific Bell
1990	A-1 JEWELRY & LOAN PWNBRKR	Pacific Bell
1986	A-1 JEWELRY & LOAN PWNBRKR CC	Pacific Bell
1981	A-1 JEWELRY & LOAN PWNBRKR CC	Pacific Telephone
1980	A 1 JEWELRY & LOAN pwnbrkrs	Pacific Telephone
	From Los Angeles Telephones Call	Pacific Telephone
1975	AMERICAN WELDING & INDUSTRIAL SALES	Pacific Telephone
1954	JAY S TOY & HOBBY CENTER	R. L. Polk & Co.

4321 SEPULVEDA BLVD

Year	Uses	Source
2006	PRATT Kathleen	Haines Co., Inc.
	PRATT Kathleen	Haines Co., Inc.
2000	DEBARTOLO Mardell	Haines & Company

Sepulveda Blvd

4322 Sepulveda Blvd

Year	Uses	Source
2014	SWANYA THAI CUISINE	EDR Digital Archive
	SWANYA THAI CUISINE	EDR Digital Archive

FINDINGS

SEPULVEDA BLVD

4322 SEPULVEDA BLVD

Year	Uses	Source
2006	BOTANICA LAFE	Haines Co., Inc.
2000	XXXX	Haines & Company
1991	Deja Vu	Pacific Bell
	De Jack Marea	Pacific Bell
	DEJA-VU	Pacific Bell
	Deja Vu Bridal Boutique VENICE	Pacific Bell
1985	MARY KAYE S HAIR N NOW	Pacific Bell

Sepulveda Blvd

4323 Sepulveda Blvd

Year	Uses	Source
2014	FITNESS EQUIPMENT KING	EDR Digital Archive
	FITNESS EQUIPMENT KING	EDR Digital Archive
2010	AM SECURITY SERVICES INC	EDR Digital Archive
	AM SECURITY SERVICES INC	EDR Digital Archive

SEPULVEDA BLVD

4323 SEPULVEDA BLVD

Year	Uses	Source
2006	SECOND CHANCE	Haines Co., Inc.
	USED CLOTHING	Haines Co., Inc.
2000	MOELLER UPHOLSTERY	Haines & Company
	MOELLER & OLD WORLD UPHOL	Haines & Company
1991	Moeller Upholstery	Pacific Bell
	Or 3971496	Pacific Bell
	Moeller Upholstery	Pacific Bell
	Moeller Upholstery	Pacific Bell
	Old World Upholstering	Pacific Bell
	MOELLER UPHOLSTERY	Pacific Bell
	MOELLER UPHOLSTERY	Pacific Bell
	OLD WORLD UPHOLSTERING	Pacific Bell
1985	MOELLER UPHOLSTERY	Pacific Bell
	MOELLER UPHOLSTERY	Pacific Bell
1980	MOELLER UPHOLSTERY	Pacific Telephone

Year	Uses	Source
1980	Moen D J	Pacific Telephone
	Moeuor Upholstery	Pacific Telephone
1975	MOELLER UPHOLSTERY	Pacific Telephone
	MOELLER UPHOLSTERY	Pacific Telephone
1970	JOSCELYRS MOTORS	Pacific Telephone

Sepulveda Blvd

4324 Sepulveda Blvd

Year	Uses	Source
2014	AT RICH INC	EDR Digital Archive
	SWANYATHAI MASSAGE & SPA	EDR Digital Archive
	AT RICH INC	EDR Digital Archive
	SWANYATHAI MASSAGE & SPA	EDR Digital Archive
2010	SWANYATHAI MASSAGE & SPA	EDR Digital Archive
	AT RICH INC	EDR Digital Archive
	SWANYATHAI MASSAGE & SPA	EDR Digital Archive
	AT RICH INC	EDR Digital Archive

SEPULVEDA BLVD

4324 SEPULVEDA BLVD

Year	Uses	Source
2006	SWANYA	Haines Co., Inc.
2000	SECOND CHANCE USED CLO	Haines & Company
1991	HAROLDS HOSIERY CO	Pacific Bell
	UNITEDHOSIERY	Pacific Bell
	Harolds Hosiery Co	Pacific Bell
	United Hosiery	Pacific Bell
1990	HAROLD S HOSIERY CO CC	Pacific Bell
1985	& N INSTALLATIONS & REPAIR	Pacific Bell
1980	Miller Litho Arts	Pacific Telephone
1975	MILLER LITHO ARTS	Pacific Telephone
1970	MILLER LITHE ARTS	Pacific Telephone
1962	STEP SAVER CO	Pacific Telephone

FINDINGS

Sepulveda Blvd

4325 Sepulveda Blvd

Year	Uses	Source
2014	ARTISTS ALLEY ACADEMY	EDR Digital Archive
	ARTISTS ALLEY ACADEMY	EDR Digital Archive
2010	ARTISTS ALLEY ACADEMY	EDR Digital Archive
	BRAZIL BRAZIL CULTURAL CENTER	EDR Digital Archive
	ARTISTS ALLEY ACADEMY	EDR Digital Archive
	BRAZIL BRAZIL CULTURAL CENTER	EDR Digital Archive

SEPULVEDA BLVD

4325 SEPULVEDA BLVD

Year	Uses	Source
2006	BRAZILBRAZIL	Haines Co., Inc.
	CULTURAL CENTER	Haines Co., Inc.
2000	BOTANICA LAFE	Haines & Company
1991	INTERNATIONAL VIDEO PRODUCTIONS	Pacific Bell
	SABRINA MIDDLE EASTERN CENTER	Pacific Bell
	international Video Productions	Pacific Bell
	SABRINA MIDDLE EASTERN CENTER	Pacific Bell
1985	SABRINA FOODS	Pacific Bell
1981	APOLLO ALUMINUM AWNINGS CO CC	Pacific Telephone
1980	From Los Angeles Telephones Ca	Pacific Telephone
1975	DAKOTA PHARMACEUTICALS	Pacific Telephone

Sepulveda Blvd

4327 Sepulveda Blvd

Year	Uses	Source
2014	STUDIO SERESS	EDR Digital Archive
	STUDIO SERESS	EDR Digital Archive

SEPULVEDA BLVD

4327 SEPULVEDA BLVD

Year	Uses	Source
2006	VIDEO DUPES&	Haines Co., Inc.

FINDINGS

Year	Uses	Source
2006	CONVERTS	Haines Co., Inc.
2000	VIDEO DUPES & CON	Haines & Company
1991	Skylark Studios	Pacific Bell
	SKYLARK STUDIOS	Pacific Bell
1985	STUDIO DNR & ASSOCIATES	Pacific Bell
1980	Dance & Gymnastics World	Pacific Telephone
	Dance J	Pacific Telephone
	Dance Magazine Inc	Pacific Telephone
1971	Ruedy Lloyd Inc Manufacturing	Pacific Telephone
1954	MRTV-KILMAN ELEC	R. L. Polk & Co.
	ICILMAN ELEC-MLR TV	R. L. Polk & Co.

Sepulveda Blvd

4328 Sepulveda Blvd

Year	Uses	Source
2014	PULP FICTION	EDR Digital Archive
	CULVER CITY AUTO PARTS	EDR Digital Archive
	CULVER CITY AUTO PARTS	EDR Digital Archive
	PULP FICTION	EDR Digital Archive
2010	USAUTOTRAK	EDR Digital Archive
	CULVER CITY AUTO PARTS	EDR Digital Archive
	LONG BEACH AUTOMOTIVE	EDR Digital Archive
	CULVER CITY AUTO PARTS	EDR Digital Archive
	LONG BEACH AUTOMOTIVE	EDR Digital Archive
	USAUTOTRAK	EDR Digital Archive

SEPULVEDA BLVD

4328 SEPULVEDA BLVD

Year	Uses	Source
2006	CULVERCITYAUTO	Haines Co., Inc.
	PARTS	Haines Co., Inc.
2000	CULVER CITY AUTO	Haines & Company
	PANOSIAN Ernest	Haines & Company
1991	CULVER CITY AUTO PARTS	Pacific Bell
	CULVER CITY AUTO PARTS	Pacific Bell
1985	CULVER CITY AUTO PARTS	Pacific Bell
1980	CULVER CITY AUTO PARTS	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	CULVER CITY AUTO PARTS	Pacific Telephone
1971	Culver City Auto Parts	Pacific Telephone
1967	Paratex Inc	Pacific Telephone
1965	PARATEX INC	Pacific Telephone
	PARATEX INC	Pacific Telephone
	S-A-Y CENTRE	Pacific Telephone
	SAY CENTRE	Pacific Telephone
1962	PARATEX INC	Pacific Telephone
	PARATEX INC	Pacific Telephone
	S-A-Y CENTRE	Pacific Telephone
	SAY CENTRE	Pacific Telephone
1958	PARATEX INC	Pacific Telephone
	PARATEX INC	Pacific Telephone
	S-A-Y CENTRE	Pacific Telephone
	SAY CENTRE	Pacific Telephone
	Paratex Inc	Pacific Telephone
	Paratex Inc	Pacific Telephone
	S A Y CENTRE	Pacific Telephone
	Say Centre	Pacific Telephone
1954	PARATEX INC	R. L. Polk & Co.
	S A Y CENTRE	R. L. Polk & Co.

Sepulveda Blvd

4329 Sepulveda Blvd

Year	Uses	Source
2010	COMMUNITY KRTE FOUNDATION INC	EDR Digital Archive
	SUNSET MASONIC TEMPLE ASSN	EDR Digital Archive
	PARKER MICHAEL A CPA	EDR Digital Archive
	PARKER MICHAEL A CPA	EDR Digital Archive
	SUNSET MASONIC TEMPLE ASSN	EDR Digital Archive
	COMMUNITY KRTE FOUNDATION INC	EDR Digital Archive

SEPULVEDA BLVD

4329 SEPULVEDA BLVD

Year	Uses	Source
2006	PARKER IRWIN	Haines Co., Inc.
	ACCNT	Haines Co., Inc.

FINDINGS

Year	Uses	Source
2006	PARKER MICHAEL A	Haines Co., Inc.
2000	PARKER IRWIN ACCT	Haines & Company
	PARKER MICHAEL A CPA	Haines & Company
1991	PARKER MCHAE A CPA	Pacific Bell
	PARKER IRWIN ACCT	Pacific Bell
	Parker Irwin acct	Pacific Bell
	Parker Irwin & Bert 8231564	Pacific Bell
	Parker 2719262	Pacific Bell
	Parker J SANTA MONICA 4528018	Pacific Bell
	Parker	Pacific Bell
	Parker Mchae A CPA	Pacific Bell
	Parker Monique LOS ANGELES 2073015	Pacific Bell
1990	PARKER IRWIN ACCT CULVER CITY	Pacific Bell
	PARKER MICHAEL A CPA CULVER CITY	Pacific Bell
1986	PARKER IRWIN ACCT CC	Pacific Bell
	PARKER MICHAEL A CPA CC	Pacific Bell
1985	BGLB MARVIN INSURANCE INC	Pacific Bell
	HILLMAN JOHN INSURANCE	Pacific Bell
	KERRY INSURANCE AGCY INC	Pacific Bell
	PARKER IRWIN ACCT	Pacific Bell
	PARKER MICHAEL A CPA	Pacific Bell
	BEST WAYNE INSURANCE	Pacific Bell
1981	KERRY INSURANCE AGENCY INC CC	Pacific Telephone
	PARKER MICHAEL A CPA CC	Pacific Telephone
1980	Best Wayne Ins Nrance	Pacific Telephone
	Gelb Marvin Insurance	Pacific Telephone
	Giesing Andy Insurance	Pacific Telephone
	Hillman John Insurance	Pacific Telephone
	Hillman L	Pacific Telephone
	From Culver City Telephones Cal	Pacific Telephone
	From Los Angeles Telephones Ca	Pacific Telephone
	Parker Michael A CPA	Pacific Telephone
1975	BEST INSURANCE AGENCY	Pacific Telephone
	BEST WAYNE INSURANCE	Pacific Telephone
	-ELBURG REAL ESTATE	Pacific Telephone
	GEIB MARVIN INSURANCE	Pacific Telephone
	GIESING ANDY INSURANCE	Pacific Telephone
	HILLMAN JOHN INSURANCE	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	KERRY INSURANCE AGCY INC	Pacific Telephone
	PARKER IRWIN ACCT	Pacific Telephone
1971	Felburg Real Estate & Ins	Pacific Telephone
	Parker Irwin acct	Pacific Telephone
1970	MOHLER REALTY	Pacific Telephone
	PARKER IRWIN ACCT	Pacific Telephone
	FELBURG REAL ESTATE & INS	Pacific Telephone
	GELB MARVIN INS	Pacific Telephone
	GLESING ANDY INS	Pacific Telephone
	HILIMAN JOHN INS	Pacific Telephone
	KERRY INS AGCY INC	Pacific Telephone
	LEE JACK INS	Pacific Telephone
	MOHLER CY	Pacific Telephone
1962	AMERICAN NAME PLATE CO	Pacific Telephone
	MARSH BANK SUPPLY CO INC	Pacific Telephone
1954	FRANK S CYCLERY	R. L. Polk & Co.

4333 SEPULVEDA BLVD

Year	Uses	Source
2000	AKIYAMA Tokio	Haines & Company
	BILTMORE GLASS CO	Haines & Company
1991	BLTMORE GLASS CO	Pacific Bell
	Bltmore Glass Co	Pacific Bell
	From Los Angeles Telephones Call	Pacific Bell
	Bilvado D LOS ANGELES 3974155	Pacific Bell
1985	BILTVIORE GLASS CO	Pacific Bell
1980	BILTMORE GLASS CO	Pacific Telephone
	From Los Angeles Telephones Call	Pacific Telephone
1975	BILTMORE GLASS CO	Pacific Telephone
1970	BILTM&RE GLASS CO	Pacific Telephone
	LEVENDORF JOS CONTR	Pacific Telephone
1965	GOEDECKE UPHOLSTERY	Pacific Telephone
1962	GOEDECBEE UPHOLSTERY	Pacific Telephone
1958	GOEDECKE UPHOLSTRY	Pacific Telephone
1954	GOEDECKE UPHOLSTRY	R. L. Polk & Co.

FINDINGS

Sepulveda Blvd

4334 Sepulveda Blvd

Year	Uses	Source
2014	LA PLUS	EDR Digital Archive
	GILDED BEE BOUTIQUE	EDR Digital Archive
	GILDED BEE BOUTIQUE	EDR Digital Archive
	LA PLUS	EDR Digital Archive
2010	CRITTER GETTERS	EDR Digital Archive
	GORDON PEGGY INC	EDR Digital Archive
	CRITTER GETTERS	EDR Digital Archive
	GORDON PEGGY INC	EDR Digital Archive

SEPULVEDA BLVD

4334 SEPULVEDA BLVD

Year	Uses	Source
1991	THEL S CLOTHES	Pacific Bell
	Thels Clothes	Pacific Bell
	Themelis Leandros & Anna VENICE	Pacific Bell
1985	THEL S CLOTHES	Pacific Bell
1980	Theme Building Restaurant Host International Inc L A International Airport LA	Pacific Telephone
	Thels Clothes	Pacific Telephone
1975	ALAN TOOLS INC	Pacific Telephone

Sepulveda Blvd

4335 Sepulveda Blvd

Year	Uses	Source
2014	MYSTIK HAIR SALON	EDR Digital Archive
	PRADO SIGNS INC	EDR Digital Archive
	PRADO SIGNS INC	EDR Digital Archive
	MYSTIK HAIR SALON	EDR Digital Archive
2010	PRADO SIGNS INC	EDR Digital Archive
	PRADO SIGNS INC	EDR Digital Archive

SEPULVEDA BLVD

4335 SEPULVEDA BLVD

Year	Uses	Source
2006	GRAPHICS	Haines Co., Inc.
	WESTSIDE	Haines Co., Inc.
2000	WEST SIDE GRA	Haines & Company
	TYPE O GRA	Haines & Company
1991	West Side Graphics	Pacific Bell
1980	APPLIANCE REPAIR CENTER	Pacific Telephone
1970	SAFARI ROOM TAVRN	Pacific Telephone

4337 SEPULVEDA BLVD

Year	Uses	Source
1991	Wagner Plus Webb Architectural	Pacific Bell
	WAGNER PLUS WEBB ARCHITECTURAL	Pacific Bell
1985	BUTLERS COINS	Pacific Bell
1980	BUTLERS COINS	Pacific Telephone
1975	MARINA DEL REY PRINTING	Pacific Telephone

4338 SEPULVEDA BLVD

Year	Uses	Source
2006	APEXAQUARIUMS	Haines Co., Inc.
2000	APEX AQRMS DV OF APX IN	Haines & Company
	X LINDBLADE	Haines & Company
1991	APEX CARDIOLOGY MARINA DEL REY	Pacific Bell
	Apex Aquariums Division Of Apex Industries	Pacific Bell
	APEX AQUARIUMS DIVISION OF APEX INDUSTRIES	Pacific Bell
1985	APEXALARMS	Pacific Bell
	APEX AQUARIUMS DIVISION OF APEX INDUSTRIES	Pacific Bell
1980	Apex Alarms	Pacific Telephone
	APEX AQUARIUMS Division Of Apex Industries	Pacific Telephone
1975	APEX AQUARIUMS DIVISION OF APEX INDUSTRIES	Pacific Telephone
1970	J&T MKT	Pacific Telephone
1962	J &T MKT	Pacific Telephone

FINDINGS

4341 SEPULVEDA BLVD

Year	Uses	Source
1970	SAY CENTRE	Pacific Telephone
	S-A-Y CENTRE	Pacific Telephone
	PARATEX INC	Pacific Telephone

4342 SEPULVEDA BLVD

Year	Uses	Source
2006	TANNERS COFFEE	Haines Co., Inc.
2000	TANNERS COFFEE CO	Haines & Company
1991	L As One Stop Real Estate	Pacific Bell
	L A T Limousine Service WESTWOOD	Pacific Bell
	One Stop Real Estate	Pacific Bell
	Zerimar Mortgage Co	Pacific Bell
	L A SONE STOP REALESTATE	Pacific Bell
	ONE STOP REAL ESTATE	Pacific Bell
	ZERIMAR MORTGAGE CO	Pacific Bell
1985	ONE STOP REAL ESTATE	Pacific Bell
1980	MDR Sales	Pacific Telephone
1975	MPH MOTORCYCLES ACCESSORIES	Pacific Telephone
1962	MILLER S SELF SERV LAUNDRAMAT	Pacific Telephone

4343 SEPULVEDA BLVD

Year	Uses	Source
2006	GOODS	Haines Co., Inc.
	BIG S 5 SPORTING	Haines Co., Inc.
2000	BIG SPORTING	Haines & Company
	LUEBKE Harold	Haines & Company
1991	Culver City	Pacific Bell
1990	BIG 5 SPORTING GOODS	Pacific Bell
1986	BIG 5 SPORTING GOODS	Pacific Bell
1980	Culver City	Pacific Telephone
1975	BIG 5 SPORTING GOODS	Pacific Telephone

4346 SEPULVEDA BLVD

Year	Uses	Source
2006	ARTS BARBER	Haines Co., Inc.
	CBS ADVERTISING	Haines Co., Inc.
	DISTRIBUTORS	Haines Co., Inc.
	SALON	Haines Co., Inc.

FINDINGS

Year	Uses	Source
2000	ARTS BARBER	Haines & Company
	CULVER CITY NEWS	Haines & Company
	HADLAND COMMUNIC	Haines & Company
	LEISURE PUBLISHING	Haines & Company
	WESTCHESTER NEWS	Haines & Company
1991	Culver City Printing Co Inc	Pacific Bell
	CULVER CITY PRINTING CO INC	Pacific Bell
1985	CULVER CITY PRINTING CO INC	Pacific Bell
1980	B & C Printing	Pacific Telephone
1975	B & C PRINTING	Pacific Telephone
	F & M DISTRIBUTORS	Pacific Telephone

4347 SEPULVEDA BLVD

Year	Uses	Source
2000	GRANDILLI Mary 00 S	Haines & Company
1985	BERMAN MIKE	Pacific Bell
1954	MOFFETT S CAMERA SUPPLIES	R. L. Polk & Co.

4348 SEPULVEDA BLVD

Year	Uses	Source
2006	WESTCST OFFSET	Haines Co., Inc.
	PRINTING	Haines Co., Inc.

4349 SEPULVEDA BLVD

Year	Uses	Source
2006	CULVERCITY	Haines Co., Inc.
	CAMERA CENTER	Haines Co., Inc.
	TRADERJIMS	Haines Co., Inc.
	CAMERA VIDEO	Haines Co., Inc.
2000	TRADER JIMS CAMERA	Haines & Company
	LINGG Rudy	Haines & Company
	CULVER CITY CAMERA C	Haines & Company
1991	Culver City Camera Center	Pacific Bell
	CULVER CITY CAMERA CENTER	Pacific Bell
	TRADER JIM S CAMERA VIDEO	Pacific Bell
	TRADER JIMS CAMERA VIDEO	Pacific Bell
1985	CULVER CITY CAMERA CENTER	Pacific Bell
1980	CULVER CITY CAMERA CENTER	Pacific Telephone
1975	MOFFETT S CAMERA SUPPLIES	Pacific Telephone

FINDINGS

Year	Uses	Source
1965	MOFFETT S CAMERA SUPPLIES	Pacific Telephone
1962	MOFFETT S CAMERA SUPPLIES	Pacific Telephone
1958	MLOFFETT S CAMERA SUPPLIES	Pacific Telephone
1954	CULVER TV & RADIO SERV & APPLIANCE SALES	R. L. Polk & Co.

4351 SEPULVEDA BLVD

Year	Uses	Source
2006	WESTCHSTRNews	Haines Co., Inc.
	WEST LA TRIBUNE	Haines Co., Inc.
	SNTAMNCA BAY	Haines Co., Inc.
	PLAYA VISTA News	Haines Co., Inc.
	PLAYADELREY	Haines Co., Inc.
	CULVERCTYNews	Haines Co., Inc.
	PRNTG	Haines Co., Inc.
	News PAPERS&	Haines Co., Inc.
	BLUE PACIFIC	Haines Co., Inc.
2000	BPW LI	Haines & Company
	MAIL ROOM COMMUNICATION SV THE	Haines & Company
1980	Gunter Electronic Service	Pacific Telephone
1975	GUNTER ELECTRONIC SERVICE	Pacific Telephone
1965	MOHLER REALTY	Pacific Telephone
1962	MOHLER REALTY	Pacific Telephone
	MOHLER ELSIE	Pacific Telephone
	MOHLER CY	Pacific Telephone
1958	THOMPSON ALEC DR PHYS & SURG DO	Pacific Telephone
1954	THOMPSON ALEC DR PHYS & SURG DO	R. L. Polk & Co.

4219A SEPULVEDA BLVD

Year	Uses	Source
1985	ROSA S SHOP	Pacific Bell

4219B SEPULVEDA BLVD

Year	Uses	Source
1985	BURKHEIMER DAVID	Pacific Bell

4201 1/2 SEPULVEDA BLVD

Year	Uses	Source
1991	POPKIN BRCE PRINTING	Pacific Bell

Year	Uses	Source
1985	ST HILAIRE ROLAND	Pacific Bell

4349 1/2 SEPULVEDA BLVD

Year	Uses	Source
1975	ARTISTRY IN PHOTOGRAPHY	Pacific Telephone
	COSTELLO ROBERT PHOTOGRAPHY	Pacific Telephone

4358 1/2 SEPULVEDA BLVD

Year	Uses	Source
1991	VITA-RX PHARMACIES	Pacific Bell
1985	VITA-RX PHARMACIES	Pacific Bell
1975	HY WEISS PHOTOGRAPHY	Pacific Telephone
1965	TRIANGLE PLUMBING INC	Pacific Telephone
	TRIANGLE PLUMBING CO	Pacific Telephone
1958	FRANK CYCLERY	Pacific Telephone

TULLER AVE

4116 TULLER AVE

Year	Uses	Source
1954	OWENS R IL	R. L. Polk & Co.

4119 TULLER AVE

Year	Uses	Source
1954	BEYER ROBT T	R. L. Polk & Co.

4122 TULLER AVE

Year	Uses	Source
1995	JONES AJ	Pacific Bell

4123 TULLER AVE

Year	Uses	Source
1954	HUTCHINSON STANLEY T	R. L. Polk & Co.

4125 TULLER AVE

Year	Uses	Source
1954	CHAVEZ WM X	R. L. Polk & Co.

4126 TULLER AVE

Year	Uses	Source
1954	VALANOS STANLEY G	R. L. Polk & Co.

FINDINGS

4128 TULLER AVE

Year	Uses	Source
1995	PIL LA E IO	Pacific Bell
1954	KANE FRED	R. L. Polk & Co.

4129 TULLER AVE

Year	Uses	Source
1954	NEWELL ARTHUR F	R. L. Polk & Co.

4132 TULLER AVE

Year	Uses	Source
1985	BEAMS JENNIFER SUSAN	Pacific Bell
	AWAKENING PRODUCTIONS INC	Pacific Bell
1980	Beams Jennifer Susan	Pacific Telephone
1975	BEAMS HARRIET	Pacific Telephone
1970	BEAMS HARRIET	Pacific Telephone
1965	PERRY WLLLARD	Pacific Telephone
1962	SORROW RUEBEN E	Pacific Telephone
1958	SLAGO LARRY J	Pacific Telephone

4133 TULLER AVE

Year	Uses	Source
1954	FRECLDETON A OR	R. L. Polk & Co.

4134 TULLER AVE

Year	Uses	Source
1985	ENRIQUEZ MARIO & MARIA	Pacific Bell
1980	Northrup Roanlf	Pacific Telephone
1975	HALGREN DARRELI	Pacific Telephone
1962	PARKER MARGO	Pacific Telephone
1958	TAMBURELLO FRANK	Pacific Telephone
1954	DE VINE HELEN	R. L. Polk & Co.

4136 TULLER AVE

Year	Uses	Source
1980	Lawlo I Catherine	Pacific Telephone
1970	RYAN ONMA MRS	Pacific Telephone
1965	RYAN OMA MRS	Pacific Telephone
1962	RYAN OMA MRS	Pacific Telephone
1958	RYAN OMA MRS	Pacific Telephone

FINDINGS

4139 TULLER AVE

Year	Uses	Source
1954	YUCH JOE W	R. L. Polk & Co.

4140 TULLER AVE

Year	Uses	Source
2006	o MCCAUSLAND	Haines Co., Inc.
	Frances	Haines Co., Inc.
1991	MC CAUSLAND FRANCES	Pacific Bell
	Mc Causland Frances	Pacific Bell
1985	MC CAUSLAND FRANCES	Pacific Bell
1980	Wellman Edw	Pacific Telephone
1965	IRASTORZA GUILLERMO	Pacific Telephone
1962	SANDERS JULIUS	Pacific Telephone
1958	DELGADO OSCAR H	Pacific Telephone
1954	ELLISON RALPH E JR	R. L. Polk & Co.

4142 TULLER AVE

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1991	Of Hara Mary	Pacific Bell
1980	Traves Eunice	Pacific Telephone
1954	STANSBURY PLILILIP C	R. L. Polk & Co.

4143 TULLER AVE

Year	Uses	Source
1954	FULL DEL L	R. L. Polk & Co.

4144 TULLER AVE

Year	Uses	Source
2006	SMITH A	Haines Co., Inc.
1991	COSTANZAC	Pacific Bell
	Costanza C	Pacific Bell
1980	Wahlrab Margaret M	Pacific Telephone
1965	LAJOIE JOYCE	Pacific Telephone
1958	TURNER J L	Pacific Telephone

4153 TULLER AVE

Year	Uses	Source
1995	TOLEDO E	Pacific Bell
	MORINICO SANDRA	Pacific Bell

FINDINGS

4200 TULLER AVE

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1991	STAR C	Pacific Bell
	Star C	Pacific Bell
1985	STARC	Pacific Bell
1980	Star C	Pacific Telephone
1970	SUTTON BETTY	Pacific Telephone
1965	AGUILAR JULIO	Pacific Telephone
1962	CHAMBERS IDA	Pacific Telephone
1958	ADELMAN H D	Pacific Telephone
1954	RELL CHAS F	R. L. Polk & Co.

4201 TULLER AVE

Year	Uses	Source
1954	CROWDER GEO R R	R. L. Polk & Co.

4202 TULLER AVE

Year	Uses	Source
2006	LUWIS Florlbareta	Haines Co., Inc.
1962	COWAN JEAN MRS	Pacific Telephone
1958	COWAN JEAN MRS	Pacific Telephone
1954	:OWAN JEAN MRS	R. L. Polk & Co.

4204 TULLER AVE

Year	Uses	Source
2006	LOPEZ	Haines Co., Inc.
	HERMELINDA	Haines Co., Inc.
1985	LOWY RICHARD	Pacific Bell
1975	DAVIS BATES E	Pacific Telephone
1965	DAVIS BATES E	Pacific Telephone
1962	DAVIS BATES E	Pacific Telephone
1954	BAKER ROBT E	R. L. Polk & Co.

4205 TULLER AVE

Year	Uses	Source
1954	SCHAEFER CALVIN A	R. L. Polk & Co.

4208 TULLER AVE

Year	Uses	Source
1985	APIVOR IRENE	Pacific Bell

FINDINGS

Year	Uses	Source
1980	Zaldeman Don	Pacific Telephone
1958	THAMBERSIDA	Pacific Telephone
1954	CHAMBERS IDA	R. L. Polk & Co.

4211 TULLER AVE

Year	Uses	Source
1991	Nowiang Russell & Betty 2733194	Pacific Bell
	NOWRMPAUL	Pacific Bell
	Nowr MPaul	Pacific Bell
1985	NOWLIN PAUL	Pacific Bell
1954	BRUSS WALTER K	R. L. Polk & Co.

4212 TULLER AVE

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1975	GIOVANNELLI JOANNE	Pacific Telephone
1970	BURDT ROBT	Pacific Telephone
1962	BUITON WM C	Pacific Telephone

4215 TULLER AVE

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1985	MAYDWELL HERBERT	Pacific Bell
1980	Nowlir Pau	Pacific Telephone
1975	NOWLIN PAUL	Pacific Telephone
1970	NOWLIN PAUL	Pacific Telephone
1965	NOWLIN PAUL	Pacific Telephone
1962	NOWLIN PAUL	Pacific Telephone
1958	LOWLIN PAUL	Pacific Telephone
1954	KLEMPNER SAM	R. L. Polk & Co.

4216 TULLER AVE

Year	Uses	Source
2006	ZYDi AK 3rian a	Haines Co., Inc.
1991	Cohen Shelley R	Pacific Bell
	Cohen Shelley J & Brenda	Pacific Bell
	Cohen Sheri SANTA MONICA 4513611	Pacific Bell
	COHENSHELLEYJ & BRENDA	Pacific Bell
1985	COHEN SHELLEY J & BRENDA	Pacific Bell
1980	Maydwell H W Rev	Pacific Telephone

FINDINGS

Year	Uses	Source
1962	COHEN SHELDON J	Pacific Telephone
1958	COHEN SHELDON J	Pacific Telephone
1954	BUCKMASTER HERBERT W	R. L. Polk & Co.

4218 TULLER AVE

Year	Uses	Source
1995	HECE	Pacific Bell

4221 TULLER AVE

Year	Uses	Source
2006	DEALEYJerry	Haines Co., Inc.
1991	DEALEYLUEBLAL	Pacific Bell
	Dealey Lue Bla L	Pacific Bell
1985	DELEYDONALDT& JERRY	Pacific Bell
1980	Dealey Donald t & Jerry	Pacific Telephone
1975	DEALEY DONALD	Pacific Telephone
1970	DEALEY JERRY	Pacific Telephone
	DEALEY DONALD	Pacific Telephone
1965	DEALEY DONALD	Pacific Telephone
1962	DEALEY JERRY	Pacific Telephone
1958	DEALEY JERRY	Pacific Telephone
1954	CARPENTER F J	R. L. Polk & Co.

Tuller Ave

4224 Tuller Ave

Year	Uses	Source
2014	SHAKLEE PRODUCTS	EDR Digital Archive
	SHAKLEE PRODUCTS	EDR Digital Archive
2010	SHAKLEE PRODUCTS	EDR Digital Archive
	SHAKLEE PRODUCTS	EDR Digital Archive

TULLER AVE

4224 TULLER AVE

Year	Uses	Source
2006	e ACUNATamara a	Haines Co., Inc.
1980	Mc Master Verne S	Pacific Telephone
1975	MCMASTER VERNE S	Pacific Telephone
1970	MCMASTER VERNE S	Pacific Telephone

FINDINGS

Year	Uses	Source
1965	MCMASTER VERNE S	Pacific Telephone
1962	MCMASTER VERNONNE S	Pacific Telephone
1958	ACLILVASLER VERNE S	Pacific Telephone
1954	JONES HAROLD E	R. L. Polk & Co.

4225 TULLER AVE

Year	Uses	Source
1980	Macheim Philip M & Francine T	Pacific Telephone
	Manheim R	Pacific Telephone
	Manheim Richard	Pacific Telephone
1975	MANHEIM PHILLIP M	Pacific Telephone
	MANHELM WM M	Pacific Telephone
	MANHELM WMM	Pacific Telephone
1970	MANHEIM PHILIP M	Pacific Telephone
1965	MANHEIM PHILIP M	Pacific Telephone
1962	MANHEIM PHILIP MI	Pacific Telephone
1958	IVLANHEITO PHILIP I	Pacific Telephone
1954	RATHBOURN HARRY E	R. L. Polk & Co.

4230 TULLER AVE

Year	Uses	Source
2006	AGUIARFidel	Haines Co., Inc.
1970	MCKINLEY JAS	Pacific Telephone
1965	MCKINLEY JAS	Pacific Telephone
1962	MCKINLEY JAS	Pacific Telephone
1958	MCKINLEY JAS	Pacific Telephone
1954	MCKINLEY JAS	R. L. Polk & Co.

4231 TULLER AVE

Year	Uses	Source
1991	HOO BRUCEE	Pacific Bell
	HooBruce E	Pacific Bell
1985	HOOK BRUCE E	Pacific Bell
1980	Hook Bruce E	Pacific Telephone
1975	HOOK BRUCE E	Pacific Telephone
1970	HOOK BRUCE E	Pacific Telephone
1965	HOOK BRUCE E	Pacific Telephone
1962	HOOK BRUCE E	Pacific Telephone
1958	HOOK BRUCE E	Pacific Telephone

Year	Uses	Source
1954	HOOK BRUCE E	R. L. Polk & Co.

Tuller Ave

4235 Tuller Ave

Year	Uses	Source
2014	DIGITAL BANSHEE	EDR Digital Archive
	DIGITAL BANSHEE	EDR Digital Archive

TULLER AVE

4235 TULLER AVE

Year	Uses	Source
2006	TYMN Mathew	Haines Co., Inc.
1975	KESSLER GEO	Pacific Telephone
1970	SANDERS B	Pacific Telephone
1958	SANDERS LOUIS	Pacific Telephone
1954	SANDERS LOUIS	R. L. Polk & Co.

4236 TULLER AVE

Year	Uses	Source
2006	MOHSIN Mohamed	Haines Co., Inc.
1991	Valenzuela Bertita	Pacific Bell
	VALENZUELABERTITA	Pacific Bell
1985	VALENZUELA BERTIIA	Pacific Bell
1980	L Valenzuela Bertila	Pacific Telephone
1965	BROPHY JAS E	Pacific Telephone

4238 TULLER AVE

Year	Uses	Source
2006	WRIGHTEric	Haines Co., Inc.
	COHEN Felicia	Haines Co., Inc.
1970	HUERTA LORLE	Pacific Telephone

Tuller Ave

4241 Tuller Ave

Year	Uses	Source
2014	CARPENTRY BY PHIL ARECHIGA	EDR Digital Archive
	CARPENTRY BY PHIL ARECHIGA	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	CARPENTRY BY PHIL ARECHIGA	EDR Digital Archive
	CARPENTRY BY PHIL ARECHIGA	EDR Digital Archive

TULLER AVE

4241 TULLER AVE

Year	Uses	Source
2006	ARECHIGA Phillip	Haines Co., Inc.
1991	Arechiga Jose Sr	Pacific Bell
	ARECHIGA JOSE SR	Pacific Bell
1985	ARECHIGA JOSE SR	Pacific Bell
1980	Arechiga Jose Sr	Pacific Telephone
1975	ARECHIGA JOSE SR	Pacific Telephone
1970	ARECTHIGA-JOSE	Pacific Telephone
	ARECHIGA JUAN M	Pacific Telephone
1965	ARECHIGA JUAN M	Pacific Telephone

4255 TULLER AVE

Year	Uses	Source
1995	WEDGEWOOD WESTERN HOLLY CO	Pacific Bell

4315 TULLER AVE

Year	Uses	Source
2006	GARCIAAJejandro	Haines Co., Inc.

Tuller Ave

4318 Tuller Ave

Year	Uses	Source
2010	CULVER CITY NATIONAL LTL LEAG	EDR Digital Archive
	CULVER CITY NATIONAL LTL LEAG	EDR Digital Archive

TULLER AVE

4318 TULLER AVE

Year	Uses	Source
2006	MANZANOA	Haines Co., Inc.
1991	Mazano Raymond	Pacific Bell
	MAZANORAYMOND	Pacific Bell
1985	MANZANO RAYMOND	Pacific Bell

FINDINGS

Year	Uses	Source
1980	Manzano Raymoiid	Pacific Telephone
1975	MANZANO RAYMOND	Pacific Telephone
1962	GREGORY EARL T	Pacific Telephone
1958	GREGORY EARL T	Pacific Telephone
1954	ROSEN BEN	R. L. Polk & Co.

4321 TULLER AVE

Year	Uses	Source
2006	HOANG M	Haines Co., Inc.
	CRAIG Rmim	Haines Co., Inc.
1991	CAPIROMADELEN	Pacific Bell
	Capiro Madelen	Pacific Bell
1985	CAPIRO MADELEN	Pacific Bell
1970	SLGSON MARY LEE	Pacific Telephone
	SIGSON SISMUND	Pacific Telephone
1965	SIGSON MARY LEE	Pacific Telephone
1962	SUGSON MARY LEE	Pacific Telephone
1954	HUGHES J R	R. L. Polk & Co.

4325 TULLER AVE

Year	Uses	Source
1962	MCLENNAN HELEN R	Pacific Telephone
1958	/ICLENNAN HELEN R	Pacific Telephone
1954	MCLENNAN HELEN R	R. L. Polk & Co.

4326 TULLER AVE

Year	Uses	Source
1991	Christensen Harley	Pacific Bell
	Christensen Helen	Pacific Bell
	CHRISTENSEN HARLEY	Pacific Bell
1985	MOSER WILFRED	Pacific Bell
1980	Moser Wilfred	Pacific Telephone
1975	MOSER WILFRED	Pacific Telephone
1970	MOSER WILFRED	Pacific Telephone
1965	GOSSMAN ANTHONY W	Pacific Telephone
1962	LINDSTROM JONAS S	Pacific Telephone
1958	ALPHENAAR PIETER	Pacific Telephone
	LINDSTRONI MANNE	Pacific Telephone
1954	LINDSTROM MANNE	R. L. Polk & Co.

4331 TULLER AVE

Year	Uses	Source
2006	HAVRELUA Raymond	Haines Co., Inc.
1991	Havrella Raymond A	Pacific Bell
	HAVRELLA RAYMOND A	Pacific Bell
1985	HAVRELLA RAYMOND A	Pacific Bell
1980	Haerella Raymond A	Pacific Telephone
1975	HAVRELLA RAYMOND A	Pacific Telephone
1970	HANRELLA RAYMOND A	Pacific Telephone
1965	HAVRELLA RAYMOND A	Pacific Telephone
1962	TUCKER RICHARD W	Pacific Telephone
1958	TUCKER RICHARD W	Pacific Telephone
1954	SAMOW HERMAN	R. L. Polk & Co.

Tuller Ave

4335 Tuller Ave

Year	Uses	Source
2014	BLAKE COMPUTERS	EDR Digital Archive
	BLAKE COMPUTERS	EDR Digital Archive
2010	BLAKE COMPUTERS	EDR Digital Archive
	BLAKE COMPUTERS	EDR Digital Archive

TULLER AVE

4335 TULLER AVE

Year	Uses	Source
2006	HANDLER Blake	Haines Co., Inc.
1985	HONSOWETZ J L	Pacific Bell
1980	Honsowetz JL	Pacific Telephone
1975	HONSOWETZ J L	Pacific Telephone
1970	HONSOWETZ J L	Pacific Telephone
1965	HONSOWETZ J L	Pacific Telephone
1962	BLOCK MELVIN	Pacific Telephone
1958	WEINSTEIN PAUL	Pacific Telephone
1954	WEINSTEIN PAUL	R. L. Polk & Co.

4336 TULLER AVE

Year	Uses	Source
2006	DOMINGUEZ Israel	Haines Co., Inc.

FINDINGS

Year	Uses	Source
2006	MONTOYAlgnaclo	Haines Co., Inc.
1991	Haggar Laurice	Pacific Bell
	Haggar Paul SANTA MONICA 392413	Pacific Bell
	Haggart Rubeth SANTA MONICA 828835	Pacific Bell
	Sabrina Middle Eastern Center	Pacific Bell
1970	PAUNTSCH MERLE	Pacific Telephone

4339 TULLER AVE

Year	Uses	Source
2006	CASILLASPaul	Haines Co., Inc.
1980	Schwartz D	Pacific Telephone
	Schwartz D & J	Pacific Telephone
1965	SCHWARTZ DAVID	Pacific Telephone
1962	SCHWARTZ DAVID	Pacific Telephone
1958	SCHWARTZ DAVID	Pacific Telephone
1954	SCHWARTA DAVID	R. L. Polk & Co.

4340 TULLER AVE

Year	Uses	Source
2006	LARKIN Scott	Haines Co., Inc.
1991	Larkin Ralph M& Edna H	Pacific Bell
	Larkin S 8287587	Pacific Bell
	LARKIN RALPH M& EDNA H	Pacific Bell
1985	LARKIN RALPH M & EDNA H	Pacific Bell
1980	tarkn Ralph N & Edna H	Pacific Telephone
1975	LARKIN RALPH M	Pacific Telephone
1970	LARKIN RALPH M	Pacific Telephone
1965	LARKIN RALPH M	Pacific Telephone
1962	LARKIN RALPH M	Pacific Telephone
1958	LARKLN RALPH M1	Pacific Telephone
1954	HEBRARD WM J	R. L. Polk & Co.

Tuller Ave

4343 Tuller Ave

Year	Uses	Source
2014	BARK GENE D	EDR Digital Archive
	BARK GENE D	EDR Digital Archive
2010	BARK GENE D	EDR Digital Archive
	BARK GENE D	EDR Digital Archive

TULLER AVE

4343 TULLER AVE

Year	Uses	Source
2006	KONICEK Mary	Haines Co., Inc.
1965	RUIZ RICHARD INDSCPE CONTR	Pacific Telephone
1962	RUIZ RICHARD	Pacific Telephone
1954	GRABOW FRED	R. L. Polk & Co.

4348 TULLER AVE

Year	Uses	Source
1991	GROSSMAN LOUIS	Pacific Bell
	Grossman Louis	Pacific Bell
	Grossman M 4515033	Pacific Bell
1985	GROSSMAN LOUIS	Pacific Bell
1980	Grossman Louis	Pacific Telephone
	Grossman M	Pacific Telephone
1975	GROSSMAN LOUIS	Pacific Telephone
1970	GROSSMAN AVRAM	Pacific Telephone
1958	SANDS G	Pacific Telephone

4349 TULLER AVE

Year	Uses	Source
1970	STODEL MAX	Pacific Telephone
1965	STODEL MAX	Pacific Telephone
1962	STODEL MAX	Pacific Telephone
1954	HARRIS JACK J	R. L. Polk & Co.

4353 TULLER AVE

Year	Uses	Source
2006	WANGGuang	Haines Co., Inc.
1991	Samuels Robert 2744320	Pacific Bell
	Samuels R	Pacific Bell
	Samuels Philip	Pacific Bell
	SAMUELSR	Pacific Bell
	SAMUELS PHILIP	Pacific Bell
1985	SAMUELS PHILIP	Pacific Bell
	SAMUELS R	Pacific Bell
1980	Samuels Ronna	Pacific Telephone
	Samuels Robert L	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	Samuels Phiip	Pacific Telephone
1970	SAMUELS RONNA	Pacific Telephone
	SAMUELS PHILIP	Pacific Telephone
1965	SAMUELS PHILIP	Pacific Telephone
1962	SAMUELS PHILIP	Pacific Telephone
1958	SAMUELS PHILIP	Pacific Telephone
1954	HORTON WARREN R	R. L. Polk & Co.

4356 TULLER AVE

Year	Uses	Source
2006	WORASARANSupoj	Haines Co., Inc.
1991	Worasaran Supoj	Pacific Bell
	Worcester David E LOS ANGELES 3911456	Pacific Bell
	WORASARANSUPOJ	Pacific Bell
1980	Dorostian George	Pacific Telephone
1975	DOROSTIAN GEORGE	Pacific Telephone
1970	DOROSTIAN GEO	Pacific Telephone
1965	DOROSTLAN GEO	Pacific Telephone
1962	DOROSTIAN GEO	Pacific Telephone
1958	COROSTIAN GEO	Pacific Telephone
1954	MIDDELKOOP JAS H	R. L. Polk & Co.

4357 TULLER AVE

Year	Uses	Source
2006	SALMONSEN Eaine	Haines Co., Inc.
1980	heel I	Pacific Telephone
1975	NEEL W G	Pacific Telephone
1970	NEEL W S	Pacific Telephone
1965	NEEL W G	Pacific Telephone
1962	NEEL W G	Pacific Telephone
1958	NEEL W G	Pacific Telephone
1954	NEEL W G	R. L. Polk & Co.

4361 TULLER AVE

Year	Uses	Source
2006	NABOURS Jamrnes	Haines Co., Inc.
1991	Nabours Michael & Mary	Pacific Bell
	NABOURS MICHAEL & MARY	Pacific Bell
1985	NABOURS MICHAEL & MARY	Pacific Bell

FINDINGS

Year	Uses	Source
1980	Nabours Michael & Mary	Pacific Telephone
1965	HIGGINBOTHAM ELMO L	Pacific Telephone
1958	HIPES POLLY	Pacific Telephone
1954	WIANECLCI EDW	R. L. Polk & Co.

4362 TULLER AVE

Year	Uses	Source
2006	DIMODICA Frank	Haines Co., Inc.
1991	GRASHAM E	Pacific Bell
	Grasham E	Pacific Bell
1985	GRASHAM E	Pacific Bell
1980	Grasham E	Pacific Telephone
1970	LAFORTE NICHOLAS	Pacific Telephone
1965	MOFFETT JAS S	Pacific Telephone
1962	MOFFETT JAS S	Pacific Telephone
1958	MOFFETT JAS S	Pacific Telephone

4370 TULLER AVE

Year	Uses	Source
2006	SAUNDERSFtandcisca	Haines Co., Inc.
1970	BRANDT LOUISE	Pacific Telephone
1965	BRANDT LOUISE	Pacific Telephone
1962	BRANDT LOUISE	Pacific Telephone

4372 TULLER AVE

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1991	Lewis Danl	Pacific Bell
	LEWISDANL	Pacific Bell
	Lewis David	Pacific Bell
1985	ITURBE LEONCIO	Pacific Bell

4374 TULLER AVE

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1985	KRUEGER H M	Pacific Bell
1980	Krueger H M	Pacific Telephone
1954	LA FORGE SALLY	R. L. Polk & Co.

4376 TULLER AVE

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1985	RANDLE STEPHEN	Pacific Bell
1975	BAUMGART LESLIE G	Pacific Telephone
1970	BAUMGART LESLIE G	Pacific Telephone

4336 1/2 TULLER AVE

Year	Uses	Source
1991	HAGGARLAURICE	Pacific Bell
	SABRINA MIDDLE EASTERN CENTER	Pacific Bell
1975	DIAL JACK A	Pacific Telephone
1970	POLK LOLA M	Pacific Telephone
1958	PAYNE TROY C	Pacific Telephone
1954	SCHIEIMER J P	R. L. Polk & Co.

WAGNER

11141 WAGNER

Year	Uses	Source
2000	NAVARRO Armando	Haines & Company

11142 WAGNER

Year	Uses	Source
2000	LINGG Rudy	Haines & Company

11147 WAGNER

Year	Uses	Source
2000	KATAYAMA Carol	Haines & Company

11148 WAGNER

Year	Uses	Source
2000	SUZUKI Yoshio	Haines & Company

11151 WAGNER

Year	Uses	Source
2000	KATAYAMA K	Haines & Company

11152 WAGNER

Year	Uses	Source
2000	MUSIAL Walter	Haines & Company

FINDINGS

11155 WAGNER

Year	Uses	Source
2000	PUAY Lan	Haines & Company

11156 WAGNER

Year	Uses	Source
2000	DICKINSON Robt	Haines & Company

11165 WAGNER

Year	Uses	Source
2000	YANG Dio	Haines & Company

11166 WAGNER

Year	Uses	Source
2000	DOBSON Bobby	Haines & Company

11171 WAGNER

Year	Uses	Source
2000	SALSBERG Harvey	Haines & Company
	CHRISTIAN Evelyn	Haines & Company

11172 WAGNER

Year	Uses	Source
2000	YUBA Arthur	Haines & Company

11177 WAGNER

Year	Uses	Source
2000	JONES Delores B	Haines & Company

11178 WAGNER

Year	Uses	Source
2000	CHOQUETTE Nicole	Haines & Company

11181 WAGNER

Year	Uses	Source
2000	FALAH Manzur	Haines & Company

11182 WAGNER

Year	Uses	Source
2000	KEINERT Valena	Haines & Company
	X SEPULVEDA BLVD	Haines & Company
	X LINDBLADE	Haines & Company

WAGNER ST

11141 WAGNER ST

Year	Uses	Source
2006	NAVARROMarda	Haines Co., Inc.
1985	NAVARRO ARMANDO	Pacific Bell
	NAVARRO RALPH	Pacific Bell
1954	NIVEN WM R R	R. L. Polk & Co.

11142 WAGNER ST

Year	Uses	Source
1954	CARROLL TED R	R. L. Polk & Co.

11147 WAGNER ST

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1991	MATSUMOTO HIROSHIGEH	Pacific Bell
1985	MATSUMOTO HIROSHIGE H	Pacific Bell
1975	MATSUMOTO HIROSHIGE H	Pacific Telephone

11148 WAGNER ST

Year	Uses	Source
2006	SUZUKIYoshio	Haines Co., Inc.
1975	HOLADAY J A	Pacific Telephone
1954	GREGORY WM S JR	R. L. Polk & Co.

11151 WAGNER ST

Year	Uses	Source
2006	No Current Listing	Haines Co., Inc.
1991	KATAYAMA FRANK K	Pacific Bell
1985	KATAYAMA FRANK K	Pacific Bell
1975	KATAYAMA FRANK K	Pacific Telephone
1954	IBLINGS WM J	R. L. Polk & Co.

11152 WAGNER ST

Year	Uses	Source
2006	o ZALMAHolden	Haines Co., Inc.
1975	MUSIAL WALTER P	Pacific Telephone
1954	MUSIAL WALTER P R	R. L. Polk & Co.

FINDINGS

11156 WAGNER ST

Year	Uses	Source
2006	DICKINSON Robert	Haines Co., Inc.
1991	DICKINSON ROBT	Pacific Bell
1985	DICKINSON ROBT	Pacific Bell
1954	ZEVIN ABRAHAM R	R. L. Polk & Co.

11165 WAGNER ST

Year	Uses	Source
2006	YANG Dio	Haines Co., Inc.
1985	TING CHEE YONG	Pacific Bell
1975	BOYLAN JOHN A	Pacific Telephone
1954	HICKEY WAITER L R	R. L. Polk & Co.

11166 WAGNER ST

Year	Uses	Source
2006	DOBSON Bobby	Haines Co., Inc.
1991	PADILLA GEO A	Pacific Bell
1985	PADLLA GEAO A	Pacific Bell
1975	PADILLA GEO A	Pacific Telephone
1954	CLEMENS VIRGIL R	R. L. Polk & Co.

Wagner St

11171 Wagner St

Year	Uses	Source
2014	ALLBRIGHT POOL SERVICE	EDR Digital Archive
	ALLBRIGHT POOL SERVICE	EDR Digital Archive
2010	ALLBRIGHT POOL SERVICE	EDR Digital Archive
	ALLBRIGHT POOL SERVICE	EDR Digital Archive

WAGNER ST

11171 WAGNER ST

Year	Uses	Source
2006	SALSBERGHarvey	Haines Co., Inc.
1985	YAU PATRICK 8839 6099	Pacific Bell
1954	SALES HARVEY R	R. L. Polk & Co.

FINDINGS

11172 WAGNER ST

Year	Uses	Source
2006	o CONROY William	Haines Co., Inc.

11177 WAGNER ST

Year	Uses	Source
2006	JONES Delores B	Haines Co., Inc.
1991	JONES DELORESB	Pacific Bell
1985	JONES DELORES B	Pacific Bell
1975	JONES DELORES B	Pacific Telephone
1954	JONES GEO R	R. L. Polk & Co.

11178 WAGNER ST

Year	Uses	Source
2006	CHOQUETTENicole	Haines Co., Inc.
1975	ESPY JACQUELINE	Pacific Telephone
1954	BROWER RAYMOND M R	R. L. Polk & Co.

11181 WAGNER ST

Year	Uses	Source
2006	o FALAH Manzur	Haines Co., Inc.
1954	HADFIELD H V	R. L. Polk & Co.

11182 WAGNER ST

Year	Uses	Source
2006	MIYASHIRO Slanley	Haines Co., Inc.
1991	KEINERT RAYMOND	Pacific Bell
1985	KEINERT RAYMOND	Pacific Bell
1975	KEINERT RAYMOND	Pacific Telephone
1954	WEBER WALTER H	R. L. Polk & Co.

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
10962 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10986 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10992 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11021 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11035 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11052 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11119 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11124 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11128 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11131 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11132 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11133 1\2 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11133 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11137 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11137 Culver Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11137 Culver Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11138 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11141 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11141 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11142 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11142 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11142 WAGNER ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11147 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11147 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11147 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11148 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11148 Culver Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11148 Culver Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11148 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11148 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11149 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11151 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11151 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11151 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11152 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11152 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11152 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11155 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11155 Culver Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11155 Culver Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11155 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11156 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11156 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11162 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11162 Culver Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11162 Culver Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11163 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11165 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11165 Culver Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11165 Culver Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11165 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11165 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11166 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11166 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11171 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11171 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11171 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11171 Wagner St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11171 Wagner St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11172 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11172 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11175 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11177 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11177 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11178 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11178 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11178 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11179 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11181 LINDBLADE	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11181 LINDBLADE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11181 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11181 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11182 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11182 LINDBLADE	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11182 LINDBLADE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11182 WAGNER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11182 WAGNER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11192 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11208 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11208 Culver Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11208 Culver Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11215 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11232 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11233 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11235 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11236 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11238 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11239 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11241 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11242 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11243 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11243 Culver Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11243 Culver Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11244 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11245 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11246 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11250 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11254 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11256 CULVER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11258 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11260 CULVER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4116 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4119 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4122 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4123 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4125 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4126 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4128 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4129 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4132 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4133 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4133 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4134 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4135 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4136 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4137 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1972, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4139 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4140 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4142 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4143 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4143 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4144 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4145 S SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4145 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1976, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4145 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4145 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4146 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4147 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4147 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4147 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4147 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4149 Sepulveda Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4149 Sepulveda Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4149 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4150 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4151 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4151 Sepulveda Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4151 Sepulveda Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4152 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4153 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4153 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4153 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4154 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4155 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1976, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4155 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4155 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4157 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4158 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4161 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4162 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4162 Commonwealth Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4162 Commonwealth Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4165 COMMONWEALTH AVE	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4166 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4166 Commonwealth Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4166 Commonwealth Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4169 Commonwealth Ave	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4169 Commonwealth Ave	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4169 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4170 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4173 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4173 Commonwealth Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4173 Commonwealth Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4174 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4177 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4178 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4181 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4182 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4185 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4186 CENTER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4186 CENTER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4186 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4187 CENTER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4187 CENTER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4190 CENTER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4190 CENTER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4190 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4191 CENTER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4191 CENTER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4191 COMMONWEALTH AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4328 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1970, 1969, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4191 Commonwealth Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4191 Commonwealth Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4192 CENTER	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4192 CENTER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4193 CENTER ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4200 S SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4200 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4200 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4200 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4200 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4201 1/2 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4201 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4201 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4201 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4201 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4202 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4203 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4203 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4203 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4204 S SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4204 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4204 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4204 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4204 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4205 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4205 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4205 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4205 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4208 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4208 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4210 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4211 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4211 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4212 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4214 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4215 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4215 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4215 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4215 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4216 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4217 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4217 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4217 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4218 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4219 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4219 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4219 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4219A SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4219B SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4220 S SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4220 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4220 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4220 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4221 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4221 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4221 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4221 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4224 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4224 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4224 Tuller Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4224 Tuller Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4225 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4225 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4227 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4228 S SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4228 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4228 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4228 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4229 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4229 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4229 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4230 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4230 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4231 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4232 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4232 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4235 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4235 Sepulveda Blvd	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4235 Sepulveda Blvd	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4235 Tuller Ave	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4235 Tuller Ave	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4235 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4236 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4238 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4238 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4238 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4238 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4239 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4239 Sepulveda Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4239 Sepulveda Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4241 Tuller Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4241 Tuller Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4241 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4242 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4255 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4261 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4313 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4314 GLOBE AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4315 GLOBE AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4315 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1985, 1981, 1980, 1976, 1972, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4315 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4316 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4316 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4316 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4317 Sepulveda Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4317 Sepulveda Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4317 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4318 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4318 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4318 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4318 Tuller Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4318 Tuller Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4318 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4319 GLOBE AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4319 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4319 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4319 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4320 GLOBE AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4320 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1985, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4320 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4320 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4321 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4321 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4322 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4322 Sepulveda Blvd	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4322 Sepulveda Blvd	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4323 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4323 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4323 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4324 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4324 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4324 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4324 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4325 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4325 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4325 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4325 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4326 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4327 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4327 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4327 Sepulveda Blvd	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4327 Sepulveda Blvd	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4328 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4328 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4329 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1976, 1972, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4329 Sepulveda Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4329 Sepulveda Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4331 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4333 S SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4333 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4334 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4334 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4334 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4334 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4335 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4335 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4335 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4335 Sepulveda Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4335 Tuller Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4335 Tuller Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4335 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4336 1/2 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4336 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4337 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4338 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4338 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4339 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4339 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4340 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4341 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4342 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4343 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4343 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4343 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4343 Tuller Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4343 Tuller Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4346 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4347 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4347 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4348 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4348 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4349 1/2 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4349 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4349 TULLER AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4351 SEPULVEDA BLVD	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4352 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4353 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4355 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4356 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4356 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4357 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4358 1/2 SEPULVEDA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4359 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4360 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4361 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4362 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4363 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4367 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4370 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4372 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4372 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4373 GLOBE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4374 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4376 TULLER AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
4246 Sepulveda Boulevard	2004, 2003, 2001, 1999, 1996, 1995, 1992, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

Culver Boulevard Realignment/Urban Stormwater
4246 Sepulveda Boulevard
CULVER CITY, CA 90230

Inquiry Number: 5530785.6
January 10, 2019

The EDR Property Tax Map Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

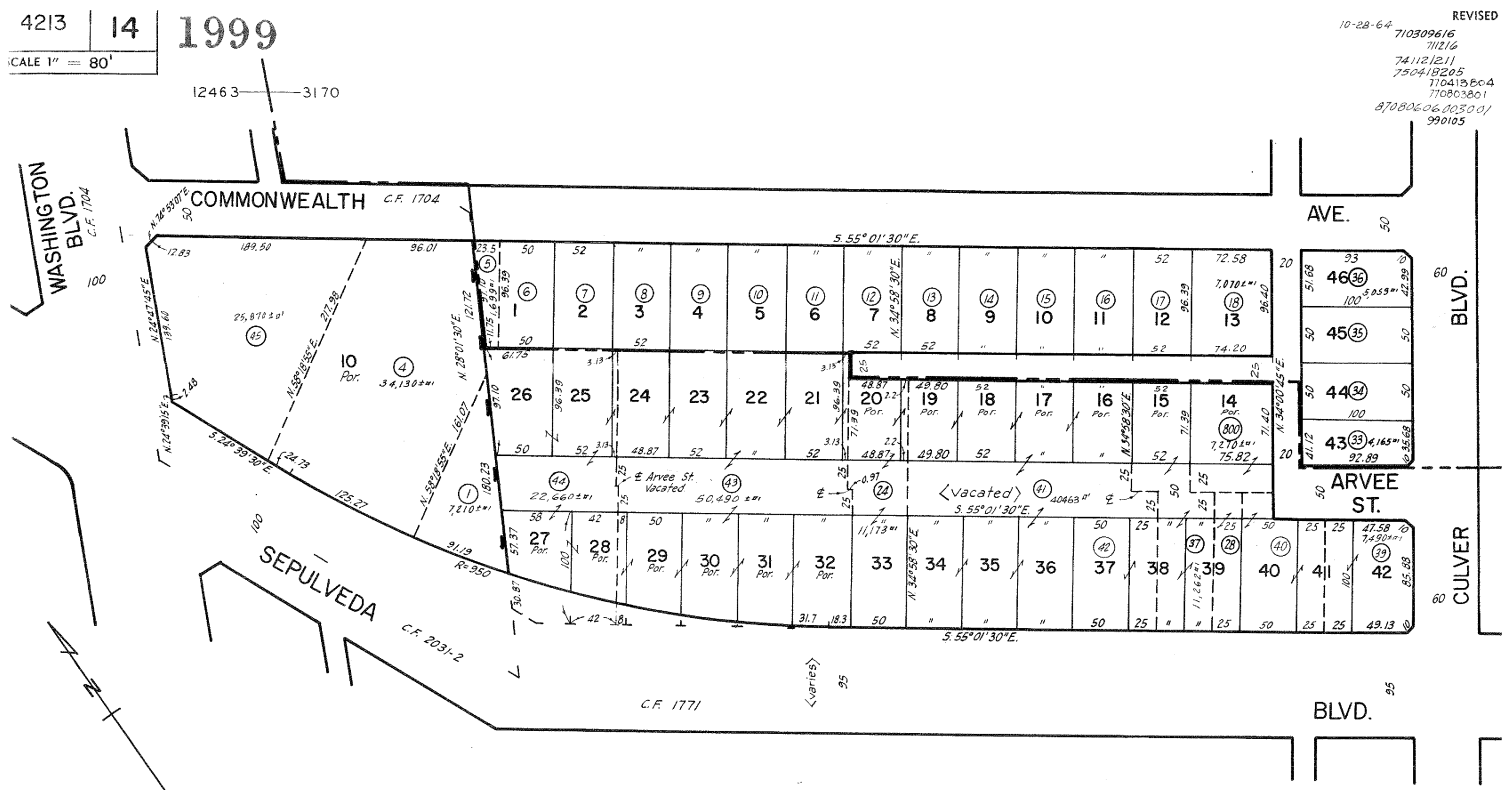
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



PARTITION OF PEDRO TALAMANTES
120.71 ACRE ALLOTMENT IN THE
RANCHO LA BALLONA
S.C.C. 7078
C.F. 187

TRACT NO. 9609
M.B. 150-27

CODE
3170
12463

FOR PREV. ASSM'T. SEE: 771 - 24

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

Culver Boulevard Realignment/Urban Stormwater
4246 Sepulveda Boulevard
CULVER CITY, CA 90230

Inquiry Number: 5530785.8
January 10, 2019

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

About This Report

Executive Summary

Findings

Glossary

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Tetra Tech, Inc. on Jan 10, 2019.

TARGET PROPERTY

4246 Sepulveda Boulevard
CULVER CITY, CA 90230

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Culver City

Year	*Source*	*TP*	*Adjoining*
2018	Culver City, Community Development Department		X
2017	Culver City, Community Development Department		X
2016	Culver City, Community Development Department		X
2015	Culver City, Community Development Department		X
2014	Culver City, Community Development Department		X
2013	Culver City, Community Development Department		X
2012	Culver City, Community Development Department		X
2011	Culver City, Community Development Department		X
2010	Culver City, Community Development Department		X
2009	Culver City, Community Development Department		X
2008	Culver City, Community Development Department		X
	Culver City, Community Development Department	X	
2007	Culver City, Community Development Department		X
2006	Culver City, Community Development Department		X
2005	Culver City, Community Development Department		X
2004	Culver City, Community Development Department		X
2003	Culver City, Community Development Department		X
2002	Culver City, Community Development Department		X
2001	Culver City, Community Development Department		X
2000	Culver City, Community Development Department		X
	Culver City, Community Development Department	X	
1999	Culver City, Community Development Department		X
1998	Culver City, Community Development Department		X
	Culver City, Community Development Department	X	
1997	Culver City, Community Development Department		X
1996	Culver City, Community Development Department		X
1995	Culver City, Community Development Department		X
	Culver City, Community Development Department	X	

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	***Source***	***TP***	***Adjoining***
1994	Culver City, Community Development Department		X
1993	Culver City, Community Development Department		X
1992	Culver City, Community Development Department		X
1991	Culver City, Community Development Department		X

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Culver City
Years: 1991-2018
Source: Culver City, Community Development Department, CULVER CITY, CA
Phone: (310) 253-5800

Name: Los Angeles
Years: 1988-2018
Source: City of Los Angeles, Department of Building and Safety, LOS ANGELES, CA
Phone: (213) 482-6800

Name: Los Angeles County
Years: 1988-2018
Source: Los Angeles County, Building and Safety, BELLFLOWER, CA
Phone: (626) 458-6368

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

4246 Sepulveda Boulevard
CULVER CITY, CA 90230

4246 SEPULVEDA BLVD

Date:	**8/14/2008**
Permit Type:	
Description:	**1 fau, 1 boiler/compressor, 1 single duct vent fan**
Permit Description:	**Mechanical**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	73216
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**8/14/2008**
Permit Type:	
Description:	**12 electrical devices, 2 branch circuits**
Permit Description:	**Electrical**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	73219
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

TARGET PROPERTY FINDINGS

Date: **8/5/2008**
Permit Type:
Description: **1 water closet, 1 lavatory, 1 water heater, 1 water pressure regulator**

Permit Description: **Plumbing**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 73134
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/23/2008**
Permit Type:
Description: **Tenant Improvement (796 sq. ft.)**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 72805
Status: Final
Valuation: $45,000.00
Contractor Company:
Contractor Name:

Date: **6/11/2008**
Permit Type:
Description: **Change face to pole sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 72713
Status: Final
Valuation: $8,000.00
Contractor Company:
Contractor Name:

TARGET PROPERTY FINDINGS

Date: **12/12/2000**
Permit Type:
Description: **1 single face illuminated wall sign**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 53684
Status: Final
Valuation: $1,150.00
Contractor Company:
Contractor Name:

Date: **10/16/2000**
Permit Type:
Description: **Tear off and reroof with 4-ply built-up roofing system using class A fiberglass cap, 16 squares**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 53323
Status: Final
Valuation: $2,900.00
Contractor Company:
Contractor Name:

Date: **2/18/1998**
Permit Type:
Description: **2 NEW CIRC FOR DINO TUNE MACH**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 45570
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

TARGET PROPERTY FINDINGS

Date: **10/20/1995**
Permit Type:
Description: **W/PLEXI FACE**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 39055
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/25/1995**
Permit Type:
Description: **TUNE AND LUBE**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 38314
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CENTER ST

4183 CENTER ST

Date:	**1/8/1999**
Permit Type:	
Description:	
Permit Description:	**Plumbing**
Work Class:	ALTERATION
Proposed Use:	
Permit Number:	48139
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

4187 CENTER ST

Date:	**2/25/2015**
Permit Type:	
Description:	**1 FAU, 10 registers, 1 boiler/compressor, 1 alteration to existing system, 1 appliance vent, 1 gas outlet**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	88869
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **7/19/2010**
Permit Type:
Description: **Tear off existing roofing, install class A fiberglass shingles.**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING RROOF
Proposed Use:
Permit Number: 77703
Status: Final
Valuation: $8,200.00
Contractor Company:
Contractor Name:

Date: **7/22/2002**
Permit Type:
Description: **1 light, 1 switch, 1 outlet**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 57431
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/22/2002**
Permit Type:
Description: **1 bathroom exhaust fan**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 57432
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/15/2002**
Permit Type:
Description: **1-lavatory, 1-bathtub**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 57367
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/20/1999**
Permit Type:
Description: **REPAIR ALTER DRAIN/VENT PIPING**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 48900
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/24/1999**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 48481
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4191 CENTER ST

Date:	**10/25/2012**
Permit Type:	
Description:	**Revision to permit #71524 - Demo of originally proposed rec room and carport. New 2 car garage, addition to first floor and addition of 2nd story. (S.f. to be added once verified and compared to original permit)**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	82943
Status:	Void
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/7/2009**
Permit Type:	
Description:	**2 water closets, 2 lavatories, 2 showers**
Permit Description:	**Plumbing**
Work Class:	RESIDENTIAL
Proposed Use:	
Permit Number:	76490
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **12/7/2009**
Permit Type:
Description: **6 electrical devices**

Permit Description: **Electrical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 76491
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/22/2008**
Permit Type:
Description: **Adding 2 new carports, converting existing garage to storage and recreation room. Two bathrooms addition in the main house.**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 71524
Status: Final
Valuation: $15,000.00
Contractor Company:
Contractor Name:

Date: **11/22/2005**
Permit Type:
Description: **1 circuit, 1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 66140
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

COMMONWEALTH AVE

4147 COMMONWEALTH AVE

Date:	**6/1/2017**
Permit Type:	
Description:	**1 water heater**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	P17-0278
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**10/11/2013**
Permit Type:	
Description:	**Tear off 1 layer and install 30 yr compostie shingle. (12 sqs.)**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	85414
Status:	Final
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **2/25/2010**
Permit Type:
Description: **6' block wall, 57' in length**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING FN/WL
Proposed Use:
Permit Number: 76897
Status: Final
Valuation: $4,240.00
Contractor Company:
Contractor Name:

Date: **4/6/1993**
Permit Type:
Description: **COMP SHING. CL. A 13 SQ.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 30976
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

4154 COMMONWEALTH AVE

Date: **1/3/2003**
Permit Type:
Description: **1 dishwasher**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 58608
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/17/1998**
Permit Type:
Description: **REMOVE EXIST**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 46781
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

4157 COMMONWEALTH AVE

Date: **12/12/2013**
Permit Type:
Description: **1 furnace, 1 compressor, 1 appliance vent, 9 registers, 3 single duct exhaust fans**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 85811
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/12/2013**
Permit Type:
Description: **12 circuit, 17 electrical devices, 1 motor/heater/generator**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 85812
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/12/2013**
Permit Type:
Description: **2 water closets, 3 lavatories, 1 bathtub, 2 showers, 1 sink, 1 dishwasher, 1 garbage disposal, 1 water heater, 1 pressure regulator, 1 gas system**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 85609
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/9/2013**
Permit Type:
Description: **Add 580 s.f., 2 bedroom and bathroom, remodel existing bath and kitchen.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 85394
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/8/1996**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 39843
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **10/13/1993**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 32641
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

4158 COMMONWEALTH AVE

Date: **2/1/2010**
Permit Type:
Description: **1 service panel**

Permit Description: **Electrical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 76759
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/10/1996**
Permit Type:
Description: **SHINGLE, CL. A**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 39649
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4162 COMMONWEALTH AVE

Date:	**3/15/2007**
Permit Type:	
Description:	**Tearing off all existing roofing on house and attached garage, applying 1/2" CDX plywood and Class A fiberglass shingles, 16 squares**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING RROOF
Proposed Use:	
Permit Number:	69335
Status:	Final
Valuation:	$6,900.00
Contractor Company:	
Contractor Name:	

4165 COMMONWEALTH AVE

Date:	**7/30/2018**
Permit Type:	
Description:	**New 2 story house and new ADU on top of the new garage.**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	M18-0320
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **5/1/2018**
Permit Type:
Description: **New 2 story house and new ADU on top of the new garage.**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: P18-0226
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/27/2018**
Permit Type:
Description: **1 Temporary power pole**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E18-0224
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/10/2017**
Permit Type:
Description: **New 2 story house and new ADU on top of the new garage.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B17-0578
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/7/2000**
Permit Type:
Description: **RECONVERT GARAGE TO FULL VEHICLE STORAGE USE, SEE OTC DATED 1/26/00**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 51412
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/7/2000**
Permit Type:
Description: **ATF WASHER/DRYER & TOILET IN GARAGE**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 51413
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/10/1999**
Permit Type:
Description: **PATIO AND PATIO COVER**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 50799
Status: Final
Valuation: $3,200.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/30/1998**
Permit Type:
Description: **BOLTING**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 46885
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

4166 COMMONWEALTH AVE

Date: **10/9/1997**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 44638
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/3/1997**
Permit Type:
Description: **REDO W/ COMP SHING. CL A**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 44543
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/15/1997**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43377
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/27/1992**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 27529
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

4169 COMMONWEALTH AVE

Date: **6/13/2005**
Permit Type:
Description: **1 fireplace, 1 FAU, 7 registers, 2 exhaust fans**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 64863
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/13/2005**
Permit Type:
Description: **3 water closets, 3 lavatories, 3 bathtubs, 2 sinks, 2 dishwashers, 2 food waste disposals, 2 clothes washer standpipes, 2 earthquake valves, 2 water heaters, 2 water heater vents, 2 hose bibs, 1 building sewer, 1 clotheswasher standpipe, 1 laundry sink, 1 gas outlet**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 64864
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/13/2005**
Permit Type:
Description: **6 lights, 6 switches, 17 receptacles, 1 smoke detector, 1 service panel, 22 circuits**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 64865
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **1/14/2005**
Permit Type:
Description: **Demolishing existing 2 car detached garage, constructing new garage with 2 bedroom apartment on second floor, remodeling kitchen in existing house**

Permit Description: **Build**
Work Class: MULTI FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 63862
Status: Final
Valuation: $90,000.00
Contractor Company:
Contractor Name:

Date: **3/2/1995**
Permit Type:
Description: **PLB,REMOVE EXT. WALLS, REOPEN PATIO**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 36912
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/2/1995**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 36913
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4170 COMMONWEALTH AVE

Date:	**1/20/2004**
Permit Type:	
Description:	**1 sewer repair**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	61409
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**5/8/2001**
Permit Type:	
Description:	**Tear off roof on house and garage, install class A shingles, 20 squares**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING ALTERATION
Proposed Use:	
Permit Number:	54549
Status:	Final
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4173 COMMONWEALTH AVE

Date:	**7/10/2006**
Permit Type:	
Description:	**1 FAU, 1 appliance vent, 8 registers, 2 bathroom exhaust fans, 1 kitchen exhaust vent**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	67694
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**4/13/2006**
Permit Type:	
Description:	**18 circuits, 50 devices, 3 subpanels, 1 service panel**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	67023
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **4/11/2006**
Permit Type:
Description: **3 water closets, 3 lavatories, 2 bathtubs, 1 sink, 1 dishwasher, 1 food waste disposal, 2 clothes washer standpipes, 1 water heater, 1 water service, 1 gas main**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 67017
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/23/2006**
Permit Type:
Description: **(PLANS ARE LOCATED ARE CARLOS DESK) - New 4 car garage (1,032 sq. ft.) with living unit above (1,010 sq. ft.)**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 66467
Status: Expired
Valuation: $120,000.00
Contractor Company:
Contractor Name:

Date: **12/21/2005**
Permit Type:
Description: **Addition to existing block wall at property line**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING FN/WL
Proposed Use:
Permit Number: 66309
Status: Expired
Valuation: $1,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/28/2001**
Permit Type:
Description: **tear off existing sheat. on rear patio flat roof only. 10 sqs, class a 4 ply hot mop. (correct made on 4-27-01) St**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 54320
Status: Final
Valuation: $1,350.00
Contractor Company:
Contractor Name:

Date: **6/2/1999**
Permit Type:
Description: **circ for new spa**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 49249
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/30/1997**
Permit Type:
Description: **N. SIDE OF PROP. LINE PER CITY DETAIL**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 43259
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/26/1996**
Permit Type:
Description: **ADD 3 CIRC**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 40204
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

4177 COMMONWEALTH AVE

Date: **5/21/1999**
Permit Type:
Description: **bathtub, standpipe, water srvc mwater pressure regul gas sys**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 49169
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/21/1999**
Permit Type:
Description: **16 circ, 4 smoke dect**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 49170
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/16/1999**
Permit Type:
Description: **TEMP SERVICE**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 48897
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/17/1999**
Permit Type:
Description: **O-7, 2nd story add, 2bdrm, 1 bath, 1st story add dinning room area**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 48100
Status: Final
Valuation: $57,148.00
Contractor Company:
Contractor Name:

Date: **3/17/1999**
Permit Type:
Description: **upgrade on panel, and motor Qualified eletrician required on job,per mac**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 48632
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/17/1999**
Permit Type:
Description: **new fau sys**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 48633
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/17/1999**
Permit Type:
Description: **new fixtures**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 48634
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/21/1996**
Permit Type:
Description: **OCK AT REAR ON PROPERTY LINE OK,W/LTR**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 40632
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4178 COMMONWEALTH AVE

Date: **10/31/2016**
Permit Type:
Description: **1 single duct exhaust/fan**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M16-0615
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/25/2016**
Permit Type:
Description: **1 branch circuit, 8 electrical device**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E16-0861
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/19/2016**
Permit Type:
Description: **1 water closet, 1 lavatory, 1 shower/pan**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: P16-0610
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **10/5/2016**
Permit Type:
Description: **Create bathroom in existing sf. and convert den into a bedroom**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B16-0853
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/25/2007**
Permit Type:
Description: **1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 69644
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/14/2001**
Permit Type:
Description: **Tear off existing roofing on house and garage, apply 1/2 inch CDX plywood, class A shingles, 18 squares**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 54593
Status: Final
Valuation: $3,600.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/14/1995**
Permit Type:
Description: **DRIVWAY GATES AND 47' SPLT RAIL FENC**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 38729
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

4182 COMMONWEALTH AVE

Date: **7/18/2006**
Permit Type:
Description: **Tearing off existing roof on house & detached garage, installing new 5/8" plywood and 35 year composition shingles**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING RROOF
Proposed Use:
Permit Number: 67781
Status: Final
Valuation: $6,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/29/1995**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 39613
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

4185 COMMONWEALTH AVE

Date: **9/13/1995**
Permit Type:
Description: **BOOTLET PERMIT FLAT $ 25.00**

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 38715
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/13/1995**
Permit Type:
Description: **TO ORIG. USE**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 38716
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/13/1995**
Permit Type:
Description: **IN GARAGE - BOOTLEG PERMIT 25.00 FLAT $**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 38717
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/22/1994**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 36378
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/22/1994**
Permit Type:
Description: **PARK REMV RM AND BTHRM**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 36379
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4186 COMMONWEALTH AVE

Date: **9/7/2005**
Permit Type:
Description: **Reroof, removing and replacing, resheathing with plywood, comp A shingles**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING RROOF
Proposed Use:
Permit Number: 65538
Status: Final
Valuation: $4,000.00
Contractor Company:
Contractor Name:

Date: **7/26/2005**
Permit Type:
Description: **2 panels**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 65246
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/5/2005**
Permit Type:
Description: **Demo garage (18 x 20)**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 64578
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/5/2005**
Permit Type:
Description: **1 clothes washer standpipe, 1 gas outlet, 1 water heater, 1 water heater vent, 1 repair/alteration to existing system**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 64579
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/5/2005**
Permit Type:
Description: **1 FAU, 6 registers/grills**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 64580
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/26/1996**
Permit Type:
Description: **NO NEW CIRCUITS - Single Family Dwelling**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 39990
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4188 COMMONWEALTH AVE

Date:	**9/23/2005**
Permit Type:	
Description:	**23 circuits, 153 devices, 1 sub-panel**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	65675
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**9/19/2005**
Permit Type:	
Description:	**1 FAU, 1 appliance vent, 10 registers, 1 compressor, 3 bathroon vent fans, 1 kitchen exhaust fan, 1 dryer vent**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	65636
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**7/11/2005**
Permit Type:	
Description:	**Plumbing for new rear unit - 3 water closets, 3 lavatories, 2 bathtubs, 1 shower, 1 kitchen sink, 1 dishwasher, 1 food waste disposal, 1 clothes washer standpipe, 1 trap primer, 1 floor drain, 4 gas outlets, 1 water heater, 1 water heater vent, 1 water service, 1 water pressure regulator, 1 hose bib, 1 building sewer**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	65093
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/21/2005**
Permit Type:	
Description:	**SCANNED - Construction of second living unit in rear of existing property**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING
Proposed Use:	
Permit Number:	64258
Status:	Final
Valuation:	$200,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4190 COMMONWEALTH AVE

Date: **1/13/1998**
Permit Type:
Description: **REMODEL**

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 45330
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/2/1997**
Permit Type:
Description: **GLASS WINDOW PATCH STUCO=CO & DRY WALL**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 44202
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/7/1997**
Permit Type:
Description: **ELEC INSPE**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 44012
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/25/1997**
Permit Type:
Description: **KITCHEN/BATH FLOORS & WALLS**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 43926
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/25/1997**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43927
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

4191 COMMONWEALTH AVE

Date: **9/25/2018**
Permit Type:
Description: **1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E18-0697
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/2/2001**
Permit Type:
Description: **Adding to existing circuits, 57 (30 lights, 16 outlets, 11 switches)**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 54166
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/21/2000**
Permit Type:
Description: **2 toilets, 2 sinks, 2 tubs, 1 shower pan, 1 washer**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 52890
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/1/2000**
Permit Type:
Description: **DEMO EXISTING GARAGE (400SQ.FT)**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 52290
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **1/27/2000**
Permit Type:
Description: **SCANNED - demo garage, replace with 2car, add of gameroom second floor add master bdrm bath w balcony**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 51357
Status: Final
Valuation: $93,375.00
Contractor Company:
Contractor Name:

Date: **4/20/1999**
Permit Type:
Description: **BLOCK FENCE ALONG ALLEY, 135X6' PER CITY SPEC MUST BE ON PROPERTY**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 48915
Status: Final
Valuation: $1,050.00
Contractor Company:
Contractor Name:

Date: **2/11/1999**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 48388
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

CULVER BL

11256 CULVER BL

Date:	**3/19/2003**
Permit Type:	
Description:	**complete demo of single family house**
Permit Description:	**Demo**
Work Class:	
Proposed Use:	
Permit Number:	59151
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**5/27/1998**
Permit Type:	
Description:	**AND GARAGE 34 SQ**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	46347
Status:	Final
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **12/12/1994**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 36276
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

CULVER BLVD

11132 CULVER BLVD

Date: **4/2/2008**
Permit Type:
Description: **1 repair/alteration to existing piping**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 72250
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/18/2007**
Permit Type:
Description: **1 water heater**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 71322
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/17/2003**
Permit Type:
Description: **6' return on new block wall in between 11132 and 11138 Culver Blvd.**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 60560
Status: Final
Valuation: $350.00
Contractor Company:
Contractor Name:

11137 CULVER BLVD

Date: **1/27/2016**
Permit Type:
Description: **Replace roof shingles**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B16-0070
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/2/2015**
Permit Type:
Description: **Replace (8) windows, same size and location.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B15-0435
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/23/2015**
Permit Type:
Description: **Sandblast of church 11/30/15. Re-stucco.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B15-0420
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/3/2001**
Permit Type:
Description: **Change out door and replace porch/fascia**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 54538
Status: Expired
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/20/2000**
Permit Type:
Description: **new block wall in front/side of church, and gate**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 53751
Status: Final
Valuation: $10,000.00
Contractor Company:
Contractor Name:

Date: **7/7/1998**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 46680
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/27/1997**
Permit Type:
Description: **HOT MOP CLASS A 9 S.F.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 43701
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/27/1997**
Permit Type:
Description: **CIRC.**

Permit Description: **Electrical**
Work Class: MISC
Proposed Use:
Permit Number: 43705
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/27/1997**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43706
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/1/1992**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 29929
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **10/15/1992**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 29549
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/15/1992**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 29550
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/12/1992**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 29507
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **10/5/1992**
Permit Type:
Description: **REPLAC EXISTING FIXT**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 29418
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/2/1992**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 29401
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/23/1992**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 29328
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11138 CULVER BLVD

Date:	**1/12/2009**
Permit Type:	
Description:	**13 electrical devices**
Permit Description:	**Electrical**
Work Class:	RESIDENTIAL
Proposed Use:	
Permit Number:	74209
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**1/12/2009**
Permit Type:	
Description:	**1 appliance vent, 1 duct or area smoke detectors**
Permit Description:	**Mechanical**
Work Class:	RESIDENTIAL
Proposed Use:	
Permit Number:	74210
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **1/12/2009**
Permit Type:
Description: **1 water closet, 1 lavatory, 1 bathtub, 1 sink, 1 clothes washer standpipe, 1 gas outlet, 1 hose bib**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 74211
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/7/2009**
Permit Type:
Description: **Adding 325 sq. ft. room to first floor of single family residence**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 74189
Status: Final
Valuation: $35,000.00
Contractor Company:
Contractor Name:

Date: **9/8/2003**
Permit Type:
Description: **6 foot block wall at rear and sides of property**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 60479
Status: Final
Valuation: $7,200.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/20/2001**
Permit Type:
Description: **BATHROOM VENT**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 54260
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/23/2001**
Permit Type:
Description: **fau and comp 8 reg**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 53914
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/23/2001**
Permit Type:
Description: **cir for hvac sys**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 53915
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **1/22/2001**
Permit Type:
Description: **new service**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 53899
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/14/1993**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 31485
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11142 CULVER BLVD

Date:	**12/1/2016**
Permit Type:	
Description:	**SCANNED-Convert laundry room into bathroom, replace 12 windows/1 slider (like for like), add 2 new windows**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	B16-0998
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/1/2016**
Permit Type:	
Description:	**12 electrical devices**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	E16-0970
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **12/1/2016**
Permit Type:
Description: **2 single duct vent**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M16-0671
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/1/2016**
Permit Type:
Description: **2 water closet, 3 lavatory, 2 bathtub, 1 shower, 1 sink, 1 dishwasher, 1 food waste disposal**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: P16-0721
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/11/2004**
Permit Type:
Description: **1 FAU, 1 air handling unit**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 62246
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/11/2004**
Permit Type:
Description: **1 circuit, 1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 62247
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/17/2003**
Permit Type:
Description: **6' return on new block wall in between 11142 and 11138 Culver Blvd.**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 60559
Status: Final
Valuation: $350.00
Contractor Company:
Contractor Name:

Date: **9/11/2000**
Permit Type:
Description: **T/O EXISTING INSTALL FIBERGLASS SHINGLES CLASS A HOUSE AND GARAGE 21 SQ**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 53030
Status: Final
Valuation: $3,400.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **8/27/1998**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 47112
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/20/1998**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 47046
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/12/1998**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 46476
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11147 CULVER BLVD

Date:	**7/18/2000**
Permit Type:	
Description:	**NEW BLOCK WALL 5 FT HT.**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING MISC
Proposed Use:	
Permit Number:	52641
Status:	Final
Valuation:	$1,000.00
Contractor Company:	
Contractor Name:	

Date:	**3/19/1999**
Permit Type:	
Description:	**reroof**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING MISC
Proposed Use:	
Permit Number:	48667
Status:	Issued
Valuation:	$2,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

11148 CULVER BLVD

Date: **5/1/2018**
Permit Type:
Description: **1 wall furnace**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M18-0182
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/20/2000**
Permit Type:
Description: **water heater c/o**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 52436
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/17/1996**
Permit Type:
Description: **CL A SINGLE**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 39701
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11151 CULVER BLVD

Date: **10/5/2016**
Permit Type:
Description: **2 branch circuits, 2 electrical device, 1 motor/heater/transformer/generator**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E16-0773
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/5/2016**
Permit Type:
Description: **1 furnace, 1 appliance vent, 6 registers, 1 boiler/compressor, 1 gas system**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M16-0571
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/16/2005**
Permit Type:
Description: **Reroof, tearing off existing roof and replacing with comp. A shingles**

Permit Description: **Build**
Work Class: COMMERCIAL RROOF
Proposed Use:
Permit Number: 64651
Status: Final
Valuation: $5,500.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/9/1994**
Permit Type:
Description: **SHEET NEC. PER AL DUPLEX 11151/55 CULVER**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 33480
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/8/1993**
Permit Type:
Description: **EXIST. DECK FOR 11155 CULVER BL**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 33074
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

11152 CULVER BLVD

Date: **6/14/1996**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 40800
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/13/1996**
Permit Type:
Description: **LIGHT, AND 1 GFI RECEPTICLE**

Permit Description: **Electrical**
Work Class: NEW
Proposed Use:
Permit Number: 40801
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/16/1996**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 40587
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

11162 CULVER BLVD

Date: **10/1/2001**
Permit Type:
Description: **reroof, remove and install new single ply roof- flat roofsystem small motel?**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 55526
Status: Final
Valuation: $6,500.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11163 CULVER BLVD

Date:	**12/16/2008**
Permit Type:	
Description:	**Replacing 16 windows (same size, same location) for 11163 & 11163 1/2 Culver Blvd.**
Permit Description:	**Build**
Work Class:	MULTI FAMILY DWELLING MISC
Proposed Use:	
Permit Number:	74074
Status:	Final
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	

Date:	**12/16/2008**
Permit Type:	
Description:	**2 lavatories, 2 kitchen sinks (11163 & 11163 1/2 Culver Blvd.)**
Permit Description:	**Plumbing**
Work Class:	RESIDENTIAL
Proposed Use:	
Permit Number:	74075
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

11165 CULVER BLVD

Date: **9/12/2012**
Permit Type:
Description: **unit # 1 -1 wall heater, 1 appliance vent**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 82635
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/12/2012**
Permit Type:
Description: **1 wall heater unit # 3, 1 appliance vent**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 82636
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/12/1996**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42017
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **10/31/1995**
Permit Type:
Description: **SCANNED - REINFORCEMENT UNIT #4**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 39159
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

11171 CULVER BLVD

Date: **8/13/1996**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 41288
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/10/1996**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 40773
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/30/1996**
Permit Type:
Description: **OVER EXIST. SHEET, W/CL A SHINGLE**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 40676
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

11175 CULVER BLVD

Date: **10/2/2006**
Permit Type:
Description: **New 6' high block wall**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING FN/WL
Proposed Use:
Permit Number: 68284
Status: Final
Valuation: $1,800.00
Contractor Company:
Contractor Name:

Date: **7/25/2006**
Permit Type:
Description: **Replacing 5 windows (all same sizes & locations as existing)**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 67833
Status: Final
Valuation: $2,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/25/2006**
Permit Type:
Description: **4 circuits, 1 electrical device**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 67834
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/25/2006**
Permit Type:
Description: **1 wall heater, 1 appliance vent**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 67835
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/25/2006**
Permit Type:
Description: **2 water closets, 3 lavatories, 2 bathtubs, 1 sink, 1 food waste disposal**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 67836
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11178 CULVER BLVD

Date: **7/29/2010**
Permit Type:
Description: **1 circuit**

Permit Description: **Electrical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 77797
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/29/2010**
Permit Type:
Description: **1 sink**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 77798
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/12/2008**
Permit Type:
Description: **1 water service, 1 water pressure regulator**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 72718
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/9/2008**
Permit Type:
Description: **1 heater, 1 appliance vent**

Permit Description: **Mechanical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 72284
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/11/2008**
Permit Type:
Description: **Repiping entire 22 unit building (valuation = $44,000.)**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 72061
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/3/2008**
Permit Type:
Description: **1 heater, 1 appliance vent**

Permit Description: **Mechanical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 71830
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **1/14/2008**
Permit Type:
Description: **1 wall heater, 1 appliance vent**

Permit Description: **Mechanical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 71466
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/8/2008**
Permit Type:
Description: **1 wall heater, 1 appliance vent**

Permit Description: **Mechanical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 71418
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/8/2008**
Permit Type:
Description: **1 wall heater, 1 appliance vent**

Permit Description: **Mechanical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 71419
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/19/2007**
Permit Type:
Description: **1 wall heater**

Permit Description: **Mechanical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 71332
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/19/2007**
Permit Type:
Description: **1 wall heater**

Permit Description: **Mechanical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 71333
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/3/2007**
Permit Type:
Description: **1 repair/alteration to existing piping (building drain)**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 71222
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**10/22/2007**
Permit Type:	
Description:	**Tearing off existing roofing on apartment building, applying 2 layers of ASTM felt, reroofing with class A fiberglass 30 year shingles, 75 squares**
Permit Description:	**Build**
Work Class:	MULTI FAMILY DWELLING RROOF
Proposed Use:	
Permit Number:	70980
Status:	Final
Valuation:	$15,600.00
Contractor Company:	
Contractor Name:	

Date:	**4/16/2001**
Permit Type:	
Description:	**SCANNED - fence, trellis AND WINDOW CHANGE OUT.**
Permit Description:	**Build**
Work Class:	MULTI FAMILY DWELLING MISC
Proposed Use:	
Permit Number:	54425
Status:	Final
Valuation:	$4,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

11182 CULVER BLVD

Date:	**11/12/2001**
Permit Type:	
Description:	**Temporary power pole for Christmas tree lot**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	55822
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/8/2000**
Permit Type:	
Description:	**Temporary power pole**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	53463
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

11215 CULVER BLVD

Date:	**1/25/2005**
Permit Type:	
Description:	**ATF permit to demo unpermitted patio due to amnesty case**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING MISC
Proposed Use:	
Permit Number:	63910
Status:	Final
Valuation:	$150.00
Contractor Company:	
Contractor Name:	

11232 CULVER BLVD

Date:	**7/14/2008**
Permit Type:	
Description:	**Construction of new 6' high blockwall**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING FN/WL
Proposed Use:	
Permit Number:	72955
Status:	Final
Valuation:	$4,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **5/1/2008**
Permit Type:
Description: **New 6' high concrete block wall on one side of property**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING FN/WL
Proposed Use:
Permit Number: 72443
Status: Final
Valuation: $3,000.00
Contractor Company:
Contractor Name:

Date: **7/30/1997**
Permit Type:
Description: **WROUGHT IRON GATES SLIDING**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 43859
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/2/1997**
Permit Type:
Description: **WOOD FENCE PER CITY SPECT.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 43738
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/17/1996**
Permit Type:
Description: **REMV WAKK FOR OPEN BEAM**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42331
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/27/1996**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42176
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/21/1996**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42133
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/21/1996**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42134
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/13/1996**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42044
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/7/1996**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 41993
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/5/1996**
Permit Type:
Description: **ADE ONLY**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 41927
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/29/1996**
Permit Type:
Description: **CLOSET TO 1/2 BATH**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 41405
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

11233 CULVER BLVD

Date: **6/5/2001**
Permit Type:
Description: **1 new service, 4 lights, 1 switch, 1 outlet**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 54718
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11239 CULVER BLVD

Date: **8/19/2004**
Permit Type:
Description: **3 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 63001
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/17/2004**
Permit Type:
Description: **1 circuit, 4 receptacles, 1 service panel (for 4237 Tuller Ave.)**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 62528
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/13/1998**
Permit Type:
Description: **CL A,SHINGLE-**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 45332
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/7/1996**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42000
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/17/1995**
Permit Type:
Description: **WALL UNIT 11241 CULVER BL**

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 39309
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11242 CULVER BLVD

Date:	**10/5/2009**
Permit Type:	
Description:	**Tearing off existing roofing from house and attached garage, installing class A shingles, 24 squares**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING RROOF
Proposed Use:	
Permit Number:	76083
Status:	Final
Valuation:	$2,800.00
Contractor Company:	
Contractor Name:	

11243 CULVER BLVD

Date:	**8/12/2004**
Permit Type:	
Description:	**reroof, tear off all existing roof on apt cover with class A fiberglass shingles. 29 sq**
Permit Description:	**Build**
Work Class:	MULTI FAMILY DWELLING RROOF
Proposed Use:	
Permit Number:	62942
Status:	Final
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

11250 CULVER BLVD

Date: **11/3/2015**
Permit Type:
Description: **1 gas system**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: P15-0212
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/9/1999**
Permit Type:
Description: **reroof attached unit and garage 2800 sq ftf remv exist install class a comp**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 49604
Status: Issued
Valuation: $4,100.00
Contractor Company:
Contractor Name:

Date: **10/18/1993**
Permit Type:
Description: **AMNS A90 1079**

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 32646
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

GLOBE AVE

4314 GLOBE AVE

Date:	**7/24/2018**
Permit Type:	
Description:	**1 boiler compressor, 1 furnace, 11 registers**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	M18-0307
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**7/23/2018**
Permit Type:	
Description:	**1 service panel 200 amp**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	E18-0506
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**8/9/2005**
Permit Type:	
Description:	**Reroof, removing and replacing with class A comp. shingles (garage and detached garage)**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING RROOF
Proposed Use:	
Permit Number:	65346
Status:	Final
Valuation:	$6,400.00
Contractor Company:	
Contractor Name:	

Date:	**12/4/1996**
Permit Type:	
Description:	
Permit Description:	**Plumbing**
Work Class:	ALTERATION
Proposed Use:	
Permit Number:	42228
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4315 GLOBE AVE

Date:	**1/9/2008**
Permit Type:	
Description:	**Replace existing FAU and a/c compressor unit**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	71427
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

4320 GLOBE AVE

Date:	**3/6/2014**
Permit Type:	
Description:	**Change out of (10) windows and (1) sliding door, restucco portion of house to repair cracked areas**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	86243
Status:	Final
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **3/6/2014**
Permit Type:
Description: **Wet sandblasting on 3/12/14**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 86244
Status: Void
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/11/2000**
Permit Type:
Description: **T/O EXISTING REPLACE WITH COMP SHINGLE HOUSE ONLY**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 53036
Status: Final
Valuation: $1,700.00
Contractor Company:
Contractor Name:

Date: **11/23/1994**
Permit Type:
Description: **AMN A90-0250**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 36095
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/23/1994**
Permit Type:
Description: **AMN A90-0250**

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 36096
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/24/1993**
Permit Type:
Description: **PX FOR AMNESTY INST. A90-0250**

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 31579
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/4/1993**
Permit Type:
Description: **GARAGE PER AMNS #A900250**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 31414
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4324 GLOBE AVE

Date: **5/17/1995**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 37645
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/8/1992**
Permit Type:
Description: **ABS PLASTIC DRAINS**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 28348
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/4/1992**
Permit Type:
Description: **REPIPE**

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 28327
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4334 GLOBE AVE

Date: **12/12/2000**
Permit Type:
Description: **c/o fau heat only**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 53681
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/8/1995**
Permit Type:
Description: **EXIST, RESHEET AND CL A SINGLE NEW**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 37557
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/28/1995**
Permit Type:
Description: **FENCE**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 36876
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

LINDBLADE ST

11181 LINDBLADE ST

Date:	**9/25/1996**
Permit Type:	
Description:	**GARAGE**
Permit Description:	**Electrical**
Work Class:	ALTERATION
Proposed Use:	
Permit Number:	41619
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**7/14/1995**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	ALTERATION
Proposed Use:	
Permit Number:	38217
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **7/6/1995**
Permit Type:
Description: **SCANNED- 1 WALL, EXTEND HALL, JOIN 2 LVING AREAS**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 38103
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/14/1995**
Permit Type:
Description: **RECONV RUMPUS RM**

Permit Description: **Plumbing**
Work Class: MISC
Proposed Use:
Permit Number: 37894
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/14/1995**
Permit Type:
Description: **RM**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 37895
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**6/10/1993**
Permit Type:	
Description:	**REROOF,**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	31465
Status:	Final
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

SEPULVEDA BL

4225 SEPULVEDA BL

Date:	**6/21/2018**
Permit Type:	
Description:	**cell site - remove existing and replace diplexers, tma's, rry's, rru', spuid and fiberline**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	B18-0474
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**8/3/2017**
Permit Type:	
Description:	**"AT&T Telcom Facility" change out existing - 6 antenna's on tower and RRV's to the back of the antenna's . Install equipment inside of equipment room**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	B17-0681
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**10/31/2011**
Permit Type:	
Description:	**Remove existing 44' monopole and replace with new 56' monopalm, including 12 8' antennas. Install new LTE equipment on existing rack inside equipment room.**
Permit Description:	**Build**
Work Class:	COMMERCIAL MISC
Proposed Use:	
Permit Number:	80581
Status:	Final
Valuation:	$85,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **10/31/2011**
Permit Type:
Description: **Remove existing 44' monopole and replace with new 56' monopalm, including 12 8' antennas. Install new LTE equipment on existing rack inside equipment room.**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 80582
Status: Void
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/20/1998**
Permit Type:
Description: **SCANNED - STAINLESS STELL**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 45594
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/9/1996**
Permit Type:
Description: **NEW GENERATOR**

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42265
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/3/1996**
Permit Type:
Description: **SCANNED - ATOR SITE**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42211
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/3/1996**
Permit Type:
Description: **SUBJECT TO PL CK IF CORRECT.**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42212
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/9/1996**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 40291
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/9/1996**
Permit Type:
Description: **ISSUED 7/17/95 1/2 ORIG. PX**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 40292
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/19/1995**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 38237
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/19/1995**
Permit Type:
Description: **PER R.S.**

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 38238
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/22/1992**
Permit Type:
Description: **24647 - 3/21/91 - AT 1/2 COST OF ORIG.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 28471
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/22/1992**
Permit Type:
Description: **1/2 OF ORIG. FEE**

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 28472
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/25/1991**
Permit Type:
Description: **EXISTING BLDG.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B9000056
Status: Pending
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/25/1991**
Permit Type:
Description: **STORAGE REMODEL**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B9000061
Status: Pending
Valuation: $0.00
Contractor Company:
Contractor Name:

SEPULVEDA BL 4324 SEPULVEDA BLVD

4322 SEPULVEDA BL 4324 SEPULVEDA BLVD

Date: **7/2/2018**
Permit Type:
Description: **10 devices, 1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E18-0448
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/26/2010**
Permit Type:
Description: **(2) non-illuminated wall signs**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 77414
Status: Final
Valuation: $500.00
Contractor Company:
Contractor Name:

Date: **5/20/2008**
Permit Type:
Description: **27 electrical devices**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 72559
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/29/2008**
Permit Type:
Description: **Scanned- Tenant Improvement of new Thai restaurant (960 sq. ft.)**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 72415
Status: Final
Valuation: $43,360.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**4/29/2008**
Permit Type:	
Description:	**New Restaurant (1,000 sq. ft.) - 1 existing system alter, 8 registers, 2 single duct vent/exhaust/supply fans, 1 MUA system, 1 Type-1 hood value $8,800.00, 1 test witness fee**
Permit Description:	**Mechanical**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	72417
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**4/29/2008**
Permit Type:	
Description:	**SCANNED - New Restaurant (1,000 sq. ft.) - 1 water closet, 1 lavatory, 3 kitchen sinks, 1 mop sink, 1 employee hand wash sink, 1 food waste disposal, 1 drinking fountain, 1 floor or area drain, 5 gas outlets, 1 industrial waste interceptor**
Permit Description:	**Plumbing**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	72418
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **8/23/2007**
Permit Type:
Description: **Installing 3 36"x96" illuminated wall sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 70574
Status: Final
Valuation: $1,000.00
Contractor Company:
Contractor Name:

Date: **4/28/2003**
Permit Type:
Description: **Add Partition Part Of Wall**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 59440
Status: Final
Valuation: $1,500.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

SEPULVEDA BLVD

4130 SEPULVEDA BLVD

Date:	**9/10/2018**
Permit Type:	
Description:	**Tenant Improvement (3081 s.f.) / "Anytime Fitness" - Renovate of existing tenant space.**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	B18-0714
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**2/15/2017**
Permit Type:	
Description:	**(2) illuminated wall signs**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	B17-0101
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **2/15/2017**
Permit Type:
Description: **(3) illuminated wall signs**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E17-0079
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/2/2016**
Permit Type:
Description: **Tenant Improvement (3000 s.f.) / "Cyclebar" - interior alteration, total valuation $ 95,000**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B16-0094
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**2/2/2016**
Permit Type:	
Description:	**SCANNED-Tenant Improvement (3000 s.f.) / "Cyclebar" - interior alteration; 36 volt branch circuit, 45 electrical devices, 3 motor/heater/transformer/generator, 3 service panel**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	E16-00085
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**2/2/2016**
Permit Type:	
Description:	**Tenant Improvement (3000 s.f.) / "Cyclebar" - interior alteration; 2 repair/alteration to existing system, 36 registers, 2- compressors (2- 5 ton gas/electric package units), 2- FAU upto 100,000 BTU, 4 duct mount smoke detectors, 6 single duct exhaust fans, 1 witness test fee.**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	M16-0059
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **2/2/2016**
Permit Type:
Description: **SCANNED-Tenant Improvement (3000 s.f.) / "Cyclebar" - interior alteration; 2 water closets, 2 lavatory, 3 shower/pan. 1 sink, 1 clothes washer standpipe, 1 drinking fountain, 3 floor area drain, 5 gas system, 1 water heater**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: P16-0084
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/23/2015**
Permit Type:
Description: **2 illuminated walls signs (1 wall mounted, 1mounted on canopy)**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 90252
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/23/2015**
Permit Type:
Description: **2 illumninated signs**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 90253
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/2/2015**
Permit Type:
Description: **2 compressors, 2 air handling units**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 89697
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/31/2015**
Permit Type:
Description: **11 (120 volt branch circuits), 2 branch circuits, 40 electrical devices**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 89155
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/23/2015**
Permit Type:
Description: **SCANNED-6 registers, 1 evaporative cooler/makeup air, 1 Mechanical exhaust hood, 1 witness test fee.**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 89088
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/13/2015**
Permit Type:
Description: **4 sinks, 3 floor or area drains, 3 gas outlets**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 89015
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/5/2015**
Permit Type:
Description: **Partial demo of millwork, walls.**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 88943
Status: Void
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/17/2015**
Permit Type:
Description: **SCANNED - "Core & Shell Work" - New demising wall to divide and create new tenant space, divide mezzanine, new stairs. New bathrooms in existing restaurant space. Existing outdoor patio to be shared.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 88797
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/13/2015**
Permit Type:
Description: **(1) illuminated sign**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 88785
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/28/2015**
Permit Type:
Description: **Install (2) new illuminated wall signs.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 88659
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/28/2015**
Permit Type:
Description: **Install (2) new illuminated wall signs.**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 88660
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/24/2014**
Permit Type:
Description: **Tenant Improvement/"Holy Cow" (2,442 sq. ft.) - Build out fo existing tenant space for new restaurant, minor roof penetrations for new kitchen hood**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 88460
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/23/2014**
Permit Type:
Description: **2 existing system alter, 12 registers, 2 duct mount smoke detectors, 6 single duct vent/exhaust/supply fans, 1 witness test fee. No PC required.**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 88449
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/25/2014**
Permit Type:
Description: **SCANNED-37 circuits, 80 devices**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 88289
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/25/2014**
Permit Type:
Description: **37 circuits, 80 devices**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 88290
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/20/2014**
Permit Type:
Description: **Tenant Improvement (2279 s.f.) / "Ziggy's Salon" - Interior remodel of exisitng retail space.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 88250
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/20/2014**
Permit Type:
Description: **Tenant Improvement (1825 s.f.) / "Suave Riko" - New restaurant in existing sapce including restrooms, walk in cooler and seating.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 87055
Status: Void
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/11/2014**
Permit Type:
Description: **Installing new 3'x12' light box sign**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 86255
Status: Void
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/11/2014**
Permit Type:
Description: **Directional arrow sign**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 86256
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/27/2013**
Permit Type:
Description: **Low voltage @ $10,000**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 84691
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/3/2013**
Permit Type:
Description: **2 alteration to existing system, 24 registers, 2 duct mount smoke detectors, 1 witness test fee, 5 exhaust fans**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 84470
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/16/2013**
Permit Type:
Description: **Addition of exterior trellis at rear of space**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 84147
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/14/2013**
Permit Type:
Description: **Core and shell only**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: TCO2013005
Status: Expired
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**2/6/2013**
Permit Type:	
Description:	**SCANNED - 45 circuits, 125 electrical devices, 5 motor/heater/transformer/generators, 1 service/sub-panel**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	83664
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**2/4/2013**
Permit Type:	
Description:	**SCANNED - Tenant Improvement/"Kimukatsu" (3,190 sq. ft.) - 1 fau , 2 - existing system alter (1- 5 ton, 1- 4 ton), 24 registers, 3 boiler/compressors (1 - 4 ton gas/elec. package units), 2 air handling units, 3 duct or area smoke detectors, 1 single duct fan(fly fan), 1 ventilation system upto 1000 cfm, 1 evaporative cooler/makeup air, 2 - mech hood system @ $18,000, 1 witness test fee.**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	83635
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**2/4/2013**
Permit Type:	
Description:	**SCANNED - Tenant Improvement/"Kimukatsu" (3,190 sq. ft.) - 2 water closets, 2 lavatories, 1 urinal, 17 sinks, 1 dishwasher, 4 trap primers, 4 floor or area drinas, 7 gas outlets, 1 earhtquake valve, 1 water heater, 1 water heater vent, 4 backflow devices**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	83636
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**2/1/2013**
Permit Type:	
Description:	**Tenant Improvement/"Kimukatsu" (3,190 sq. ft.) - Build out of existing space for new restaurant with second floor storage area**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	83619
Status:	Final
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **1/14/2013**
Permit Type:
Description: **Tenant Improvement/"Sage" (2818 sq. ft. plus 900 s.f. mezzanine) - New restaurant.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 83445
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/3/2013**
Permit Type:
Description: **Tenant Improvement/"House of Fitness" - 3 existing system alter, 36 registers, 3 duct or are smoke detectors, 1 ventilation system up to 1000 cfm. 1 test witness fee.**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 83393
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**12/17/2012**
Permit Type:	
Description:	**SCANNED-Tenant Improvement/"Lounge Spa" - 1 circuit, 25 electrical devices, 1 service panel/sub-panel**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	83291
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/17/2012**
Permit Type:	
Description:	**SCANNED-Tenant Improvement/"Lounge Spa" - 3 water closets, 3 lavatories, 4 shower and/or pans, 1 sink, 1 clothes washer standpipe, 1 gas outlet, 1 water heater, 1 floor drain**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	83292
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**12/11/2012**
Permit Type:	
Description:	**SCANNED-New restaurant - 2 FAU over 100,000 btu, 21 registers, 9 boiler/compressors (two - 7.5 ton package gas/electric, 3 walk -in cooler, freezer, wine cooler condensers), 5 - air handling units, 2 duct mount smoke detectors, 2 single duct vent / fan, 1 ventilation system upto 1000 cfm, 1 MUA, 3 commercial hood value $20,000.00, 1 witness test fee.**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	83254
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/11/2012**
Permit Type:	
Description:	**SCANNED - New restaurant - 62 circuits, 142 electrical devices, 3 motor / heaters, 1 service panel, 1 illuminated sign, 1 time clock**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	83255
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**12/11/2012**
Permit Type:	
Description:	**SCANNED-New restaurant - 3 water closets, 3 lavatories, 1 urinal, 14 sinks, 1 dishwasher, 6 floor drains, 1 water heater**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	83256
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/5/2012**
Permit Type:	
Description:	**Tenant Improvement (3,773 s.f.) / "House of Fitness" - New gym, interior wall and finishes. Additon interior footings for possible future mezzanine.**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	82999
Status:	Final
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**11/5/2012**
Permit Type:	
Description:	**Tenant Improvement (3,773 s.f.) / "House of Fitness" - 25 registers, 3 single duct exhaust/fans**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	83000
Status:	Void
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/5/2012**
Permit Type:	
Description:	**SCANNED - Tenant Improvement (3,773 s.f.) / "House of Fitness" - 2 circuits, 50 electrical devices, 2 service panels**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	83001
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**11/5/2012**
Permit Type:	
Description:	**SCANNED-Tenant Improvement (3,773 s.f.) / "House of Fitness" - 3 water closets, 3 lavatories, 1 shower, 2 drinking fountains, 2 floor drains, 1 water heater**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	83002
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/5/2012**
Permit Type:	
Description:	**Tenant Improvement (3865 s.f.) / "Lounge Spa" - New retail spa. New storage mezzanine.**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	83010
Status:	Final
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**3/1/2012**
Permit Type:	
Description:	**Construction of Building B, 14,900 sq. ft. new commercial building (shell and core only, T.I. to be permitted separately)**
Permit Description:	**Build**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	81258
Status:	Final
Valuation:	$737,164.00
Contractor Company:	
Contractor Name:	

Date:	**3/1/2012**
Permit Type:	
Description:	**SCANNED - Construction of Building B, 14,900 sq. ft. new commercial building (shell and core only, T.I. to be permitted separately) - Revision plan items - 11 compressors (6 - 5 ton, 5 - 4 ton heat pump package units), 11 air handling units, 11 duct smoke detectors, 1 witness test fee.**
Permit Description:	**Mechanical**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	81259
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**3/1/2012**
Permit Type:	
Description:	**SCANNED - Construction of Building B, 14,900 sq. ft. new commercial building (shell and core only, T.I. to be permitted separately) - 4 circuits, 14 motor/heater/transformer/generators, 2 service panel/sub-panels, 15 illuminated signs, 1 time clock**
Permit Description:	**Electrical**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	81260
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/1/2012**
Permit Type:	
Description:	**SCANNED-Construction of Building B, 14,900 sq. ft. new commercial building (shell and core only, T.I. to be permitted separately) - 8 roof drains, 1 water service, 6 hose bibs, 1 building sewer, 1 industrial waste interceptor/grease trap,3-GAS OUTLETS**
Permit Description:	**Plumbing**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	81261
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **3/30/1993**
Permit Type:
Description: **OFFICE temp trailor fianled 7-18-00 MAC trailor removed**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 30929
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

4131 SEPULVEDA BLVD

Date: **12/10/2001**
Permit Type:
Description: **reroof 12 sq built up over 1 exist layr. across the alley next to fwy**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 55971
Status: Final
Valuation: $1,500.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4133 SEPULVEDA BLVD

Date: **10/4/2000**
Permit Type:
Description: **c/o sink altr piping**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 53226
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/4/2000**
Permit Type:
Description: **add to existing**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 53228
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/15/2000**
Permit Type:
Description: **interior remodel of doctors office**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 53072
Status: Final
Valuation: $5,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4135 SEPULVEDA BLVD

Date: **4/20/2000**
Permit Type:
Description: **add one circ for hood**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 51978
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/20/2000**
Permit Type:
Description: **installing two sinks**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 51979
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/13/2000**
Permit Type:
Description: **new cooler and canopy hood=$5,000**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 51908
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/17/1998**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 46509
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/10/1998**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 46462
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/26/1993**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 31113
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/26/1993**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 31114
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/31/1992**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 30191
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/17/1992**
Permit Type:
Description: **(A-5)**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 29812
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/10/1992**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 29149
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

4137 SEPULVEDA BLVD

Date: **6/22/2005**
Permit Type:
Description: **Tenant Improvement - 37 lights/switches/receptacles**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 64941
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/21/2005**
Permit Type:
Description: **SCANNED - Tenant Improvement (including installation of storage racks) - 2,487 sq. ft.**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 64935
Status: Final
Valuation: $50,000.00
Contractor Company:
Contractor Name:

Date: **2/10/2004**
Permit Type:
Description: **SANDBLASTING CONCRETE DRIVEWAY ON 2/10/04**

Permit Description: **Build**
Work Class: SNDBLAST
Proposed Use:
Permit Number: 61572
Status: Final
Valuation: $700.00
Contractor Company:
Contractor Name:

Date: **7/6/2000**
Permit Type:
Description: **Change out sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 52549
Status: Final
Valuation: $3,200.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **1/23/1995**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 36589
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/13/1995**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 36524
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/9/1995**
Permit Type:
Description: **A-7**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 36480
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4145 SEPULVEDA BLVD

Date:	**3/8/2016**
Permit Type:	
Description:	**Roof tear off install new TPO single ply roofing. Class "A", Title 24**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	B16-0197
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/4/2009**
Permit Type:	
Description:	**repipe @ $2800**
Permit Description:	**Plumbing**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	76320
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4147 SEPULVEDA BLVD

Date:	**10/18/2004**
Permit Type:	
Description:	**Refacing one existing illuminated box sign (on both sides). Adding one new non-illuminated wall sign, two neon window signs, and one painted window sign**
Permit Description:	**Build**
Work Class:	COMMERCIAL MISC
Proposed Use:	
Permit Number:	63409
Status:	Void
Valuation:	$500.00
Contractor Company:	
Contractor Name:	

4149 SEPULVEDA BLVD

Date:	**10/18/1999**
Permit Type:	
Description:	**CHANGE FACE ON EXISTING SIGN PAINTED ONLY**
Permit Description:	**Build**
Work Class:	COMMERCIAL MISC
Proposed Use:	
Permit Number:	50598
Status:	Final
Valuation:	$50.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **3/12/1997**
Permit Type:
Description: **SIGN 4' X 5'**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42924
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/1/1996**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 40026
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

4155 SEPULVEDA BLVD

Date: **12/15/2015**
Permit Type:
Description: **2 compressor, 5 gas outlets**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M15-0253
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/2/2015**
Permit Type:
Description: **1 alteration to existing system**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 89184
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/1/2011**
Permit Type:
Description: **1 circuit, 1 illuminated sign**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 80798
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/27/2011**
Permit Type:
Description: **Installing one new illuminated sign and base and one non-illuminated wall sign.**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 79724
Status: Final
Valuation: $2,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/11/1997**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42682
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

4200 SEPULVEDA BLVD

Date: **7/17/2018**
Permit Type:
Description: **Create three new openings at the front of the building**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B18-0552
Status: Resub In Plan Check
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/11/2017**
Permit Type:
Description: **5 circuits, 38 electrical devices, 1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E17-0607
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **8/17/2017**
Permit Type:
Description: **38 (120 volt branch circuits), 8 branch circuits, 165 electrical devices, 2 service panels (1 up to 200 amp's and 1 over 200 - Up to 600, 1 time clock**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E17-0550
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/30/2017**
Permit Type:
Description: **Tenant Improvement(4900 sf.) / "R&A" Suite 104 - New partition walls to create office space within existing warehouse**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B17-0417
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/2/2017**
Permit Type:
Description: **Tenant Improvement - New interior walls**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E17-0263
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/2/2017**
Permit Type:
Description: **Tenant Improvement - New interior walls**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M17-0165
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/22/2017**
Permit Type:
Description: **Tenant Improvement - New interior walls**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B17-0197
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/13/2017**
Permit Type:
Description: **Tenant Improvement - New interior walls**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E17-0136
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/13/2017**
Permit Type:
Description: **2 lavatory, 2 water closet**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: P17-0121
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/7/2008**
Permit Type:
Description: **Tearing off existing roofing from commercial structure, installing new rock roofing 3-ply, 60 squares**

Permit Description: **Build**
Work Class: COMMERCIAL RROOF
Proposed Use:
Permit Number: 73618
Status: Final
Valuation: $13,800.00
Contractor Company:
Contractor Name:

Date: **12/29/1999**
Permit Type:
Description: **t/o existing replace with 3ply fiber glass cap sheet w/asphalt 210 sq**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 51197
Status: Final
Valuation: $31,200.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/24/1998**
Permit Type:
Description: **(NO ROOF,W/ENCLOS TO MATCH SIDE TO NORTH**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 46846
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/18/1998**
Permit Type:
Description: **SCANNED - WINDOWS WITH NEW, ALSO CH.OUT 1 DOOR**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 45826
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/15/1997**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43838
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/5/1997**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42639
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/24/1997**
Permit Type:
Description: **FT- COML**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42551
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/22/1997**
Permit Type:
Description: **SCANNED**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42525
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **1/16/1997**
Permit Type:
Description: **SCANNED - ATE OFFICE SPACE & ADD BATH (G-8)**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42506
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/16/1997**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42507
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/16/1997**
Permit Type:
Description: **ON SITE**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42508
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **1/16/1997**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42509
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/9/1997**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42406
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/27/1992**
Permit Type:
Description: **HOT MOP, NO ASBESTOS**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 29074
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/26/1992**
Permit Type:
Description: **PERMIT #27732 3/19/92**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 27785
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/25/1992**
Permit Type:
Description: **& NEW PANEL ADD METER SECTION SPLIT SVC**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 27732
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

4201 SEPULVEDA BLVD

Date: **2/26/2007**
Permit Type:
Description: **Installing double sided projected wall sign 2'x4'**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 69202
Status: Closed
Valuation: $850.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/1/2006**
Permit Type:
Description: **1 illuminated metal cabinet sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 67133
Status: Final
Valuation: $1,000.00
Contractor Company:
Contractor Name:

Date: **7/10/1997**
Permit Type:
Description: **OFFICE SPACE**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 43801
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/10/1997**
Permit Type:
Description: **COOLER AND ADD ADDTL OUTLETS**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43803
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/10/1997**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43804
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/10/1997**
Permit Type:
Description: **NO GAS**

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43805
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

4203 SEPULVEDA BLVD

Date: **11/9/2005**
Permit Type:
Description: **Reroof, removing old and replacing with new built-up roof**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING RROOF
Proposed Use:
Permit Number: 66045
Status: Final
Valuation: $5,450.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4204 SEPULVEDA BLVD

Date: **11/3/1994**
Permit Type:
Description: **1 NEW PLEX. W/ALUM. FRAME**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 35934
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/13/1994**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 35458
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/29/1993**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 33008
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **1/11/1993**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 30237
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/29/1992**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 28803
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/29/1992**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: MISC
Proposed Use:
Permit Number: 28804
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4205 SEPULVEDA BLVD

Date:	**4/29/2008**
Permit Type:	
Description:	**SCANNED - Tenant Improvement - 1,234 sq. ft.**
Permit Description:	**Build**
Work Class:	COMMERCIAL ALTERATION
Proposed Use:	
Permit Number:	72424
Status:	Final
Valuation:	$8,000.00
Contractor Company:	
Contractor Name:	

Date:	**9/30/2002**
Permit Type:	
Description:	**REMOVE OLR BUILT-UP ROOFING AND INSTALL NEW BUILT-UP ROOF**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING MISC
Proposed Use:	
Permit Number:	57928
Status:	Final
Valuation:	$2,750.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4215 SEPULVEDA BLVD

Date: **9/24/2018**
Permit Type:
Description: **New carport.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B18-0758
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/10/2017**
Permit Type:
Description: **New Car Port**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B17-0700
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/28/2015**
Permit Type:
Description: **(2) illuminated signs**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B15-0510
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/28/2015**
Permit Type:
Description: **(2) illuminated signs**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E15-00400
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/15/2015**
Permit Type:
Description: **1 compressor, 5 gas outlets**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M15-0254
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/1/2015**
Permit Type:
Description: **1 water closet, 1 lavatory, 1 floor drain, 1 backflow devices, 1 lawn sprinkler control valve, 1 repair/alteration to existing piping, 1 builder sewer, 1 sump pump**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 89681
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **10/22/2014**
Permit Type:
Description: **12 electrical devices**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 88026
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/10/2014**
Permit Type:
Description: **Change of use from copy/print shop to vehicle repair garage. New trash enclosure.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 87671
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/11/2003**
Permit Type:
Description: **lower light fixture light fixture rear of building**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 58857
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/18/1996**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42097
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

4219 SEPULVEDA BLVD

Date: **4/6/2009**
Permit Type:
Description: **1 furnace, 1 appliance vent, 5 registers, 1 boiler/compressor, 1 single duct vent**

Permit Description: **Mechanical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 74701
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/20/2009**
Permit Type:
Description: **SCANNED - Tenant Improvement (643 sq. ft.) -Demo existing restroom, new handicap restroom, new kitchen counter**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 74608
Status: Final
Valuation: $8,000.00
Contractor Company:
Contractor Name:

Date: **3/20/2009**
Permit Type:
Description: **SCANNED - 1 water closet, 1 lavatory, 2 sinks, 2 gas outlets, 1 water heater**

Permit Description: **Plumbing**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 74609
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/20/2009**
Permit Type:
Description: **Tenant Improvement (643 sq. ft.) -10 circuits, 32 electrical devices, 1 service panel/sub-panel, 1 time clock**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 74610
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/20/2009**
Permit Type:
Description: **Demolition of interior space**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 74611
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/20/2009**
Permit Type:
Description: **PERMIT TO BEGIN PLUMBING WORK WHILE IN PLAN CHECK #74609**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 74612
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/9/2004**
Permit Type:
Description: **Tearing off existing built up roofing, installing class A built up roof, 15 squares**

Permit Description: **Build**
Work Class: COMMERCIAL RROOF
Proposed Use:
Permit Number: 61546
Status: Final
Valuation: $3,100.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4220 SEPULVEDA BLVD

Date: **5/20/2005**
Permit Type:
Description: **1 compressor, 1 air handling unit**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 64693
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/16/2005**
Permit Type:
Description: **2 circuits, 2 motors**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 64638
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/16/2002**
Permit Type:
Description: **Change Out Water Heater**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 56969
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/23/1998**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 47290
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/24/1998**
Permit Type:
Description: **POLE SIGN**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 46588
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/5/1994**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 33278
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **1/4/1994**
Permit Type:
Description: **GR. SHEET ON SITE NO NEW CIRC'S**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 33265
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/28/1993**
Permit Type:
Description: **HANDICAP**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 33229
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/11/1993**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 32610
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **10/7/1993**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 32563
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/1/1992**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 29132
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/11/1992**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 28404
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4224 SEPULVEDA BLVD

Date:	**5/9/2005**
Permit Type:	
Description:	**1 Transformer, 1 illuminated sign**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	64595
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/24/2005**
Permit Type:	
Description:	**Replacing existing monument sign cabinet w/new cabinet of the same size**
Permit Description:	**Build**
Work Class:	COMMERCIAL MISC
Proposed Use:	
Permit Number:	64288
Status:	Final
Valuation:	$3,278.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4228 SEPULVEDA BLVD

Date: **2/13/2018**
Permit Type:
Description: **2 circuits**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E18-0128
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/13/2018**
Permit Type:
Description: **1 air handling unit, 1 boiler/compressor**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M18-0065
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/13/2018**
Permit Type:
Description: **1 lavatory, 1 water closet, 1 water heater**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: P18-0094
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**4/27/2017**
Permit Type:	
Description:	**New five non-load bearing finished wall and three interior doors**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	B17-0307
Status:	Void
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/2/2004**
Permit Type:	
Description:	**Tearing off existing roof on commercial building, reroofing with new base sheet, new ply sheet, and new cap sheep (hot mop), 27 squares**
Permit Description:	**Build**
Work Class:	COMMERCIAL RROOF
Proposed Use:	
Permit Number:	63689
Status:	Final
Valuation:	$8,500.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4232 SEPULVEDA BLVD

Date: **3/5/2018**
Permit Type:
Description: **Demo unpermitted carport.**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: D18-0005
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/9/2006**
Permit Type:
Description: **Prefabricated spray booth - 2 circuits, 10 devices, 1 motor**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 66380
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/9/2006**
Permit Type:
Description: **Prefabricated spray booth - 1 single duct vent/exhaust/supply fan**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 66381
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4235 SEPULVEDA BLVD

Date: **7/19/2016**
Permit Type:
Description: **Replace faces on existing wall sign on pylon pole (illuminated)**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B16-0626
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/19/2016**
Permit Type:
Description: **1 illuminated sign**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E16-0555
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/25/2016**
Permit Type:
Description: **exterior fence & parking modification (1275 s.f.)**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B16-0261
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/24/2014**
Permit Type:
Description: **Recover roof using Carlisle TPO single ply system.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 86169
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/29/2014**
Permit Type:
Description: **(2) illuminated wall signs, (2) acrylic panel change outs**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 86031
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/29/2014**
Permit Type:
Description: **(2) illuminated wall signs, (2) acrylic panel change outs**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 86032
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/16/2013**
Permit Type:
Description: **Low voltage/data cabling @ $1,600**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 85828
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/10/2013**
Permit Type:
Description: **Low voltage @ $40,000**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 85797
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/29/2013**
Permit Type:
Description: **Interior wet sandblast to clean unpainted wood ceiling on 11/1/13**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 85512
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **8/8/2013**
Permit Type:
Description: **(Partial Commercial Demo.) Demolition of interior partitions, fixtures, casework, ceiling & finishes; revome 3 exterior doors and mechanical equipment.**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 84975
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/25/2013**
Permit Type:
Description: **Tenant Improvement (9338 s.f.) - New partitions, ceiling, casework.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 84871
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**7/25/2013**
Permit Type:	
Description:	**SCANNED-5 faus upto 100,000 BTUs, 2 FAUs over 100,000 BTUs, 99 register, 8 compressors (1 - 2 ton, 1-3 ton, 1 - 4 ton, 3 - 5 ton and 1 - 7.5 ton gas/electrick package units). 7 duct or area smoke detectors, 4 exhaust system upto 1000 cfm, 1 witness test fee.**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	84872
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**7/25/2013**
Permit Type:	
Description:	**SCANNED-Tenant Improvement (9338 s.f.) - 80 circuits, 198 electrical devices, 7 motor/heater/transformer/generator, 1 illuminated sign, 1 time clock**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	84873
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**7/25/2013**
Permit Type:	
Description:	**Tenant Improvement (9338 s.f.) - 4 water closets, 2 lavatories, 6 sinks, 1dishwasher, 1 food waste disposal, 1 clothes washer standpipe, 3 trap primers, 7 floor or area drains, 2 roof drains, 9 gas outlets, 1 earthquake valve, 1 water heater, 1 water heater vent, 4 hose bibs, 1 backflow devices, 1 repair/alteration to existing piping**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	84874
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**4/1/2013**
Permit Type:	
Description:	**1 sewer cap**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	84019
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **2/15/2005**
Permit Type:
Description: **1 non-illuminated wall sign (plexiglass with metal frame)**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 64058
Status: Final
Valuation: $1,000.00
Contractor Company:
Contractor Name:

Date: **9/7/2000**
Permit Type:
Description: **adding to existing circuits (14)**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 53002
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/23/2000**
Permit Type:
Description: **SCANNED - metal letter on wall and double face pole sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 52910
Status: Final
Valuation: $5,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **8/16/2000**
Permit Type:
Description: **RESTROOMS REMO.**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 52857
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/8/2000**
Permit Type:
Description: **SCANNED - TENANT IMPROVEMENT-ADDING ADA RESTROOMS, RATING WALLS, NEW CMU WALL**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 52080
Status: Final
Valuation: $33,700.00
Contractor Company:
Contractor Name:

Date: **3/11/1999**
Permit Type:
Description: **6 WALL SIGNS NON ILLUM**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 48606
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/20/1998**
Permit Type:
Description: **SCANNED**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 46042
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/16/1998**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 46044
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/30/1998**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 45810
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4300 SEPULVEDA BLVD

Date: **7/13/2006**
Permit Type:
Description: **1 backflow device**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 67725
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/22/2006**
Permit Type:
Description: **Signs, neon channel letter w/red plexiclass face**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 66897
Status: Final
Valuation: $3,500.00
Contractor Company:
Contractor Name:

Date: **1/12/2006**
Permit Type:
Description: **Low voltage/data cabling @ $1,000.**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 66413
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/24/2005**
Permit Type:
Description: **2 Temp. power poles**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 64710
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/8/2005**
Permit Type:
Description: **- New 2 story veterinary hospital - 6,950 sq. ft. (76 circuits, 122 lights, 64 switches, 111 receptacles, 6 service panels, 1 temporary power pole, 1 illuminated sign, 1 time clock, 2 flood light poles)**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 64170
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/3/2005**
Permit Type:
Description: **SCANNED - New 2 story veterinary hospital - 6,950 sq. ft.**

Permit Description: **Build**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 64152
Status: Final
Valuation: $868,750.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**3/3/2005**
Permit Type:	
Description:	**SCANNED - New 2 story veterinary hospital - 6,950 sq. ft. (5 water closets, 5 lavatories, 1 bathtub, 2 showers, 10 sinks, 2 dishwashers, 2 food waste disposals, 3 clothes washer standpipes, 5 floor or area drains, 2 roof drains, 12 gas outlets, 2 earthquake valves, 2 water heaters, 2 water heater vents, 1 water service, 1 water pressure regulator, 2 hose bibs, 1 backflow device, 1 lawn sprinkler control vavle, 1 building sewer)**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	64153
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/3/2005**
Permit Type:	
Description:	**- New 2 story veterinary hospital - 6,950 sq. ft. (8 appliance vents, 99 registers, 26 fire/smoke dampers, 8 gas outlets, 6 duct/area smoke detectors, 5 single duct/exhaust/supply fans, 1 ventilation system, 9 compressors, 1 test witness fee)**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	64154
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4301 SEPULVEDA BLVD

Date:	**8/1/2012**
Permit Type:	
Description:	**1 sewer cap**
Permit Description:	**Plumbing**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	82323
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

4313 SEPULVEDA BLVD

Date:	**5/4/2018**
Permit Type:	
Description:	**Change to existing façade windows**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	B18-0330
Status:	Plans Picked Up
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **7/7/2011**
Permit Type:
Description: **(2) non-illuminated signs**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 79797
Status: Closed
Valuation: $80.00
Contractor Company:
Contractor Name:

Date: **10/28/2003**
Permit Type:
Description: **1 service meter**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 60884
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4315 SEPULVEDA BLVD

Date:	**10/30/2014**
Permit Type:	
Description:	**SCANNED-Tenant Improvement of retail to restaurant, addition of new non bearing partitions.**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	88086
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**10/30/2014**
Permit Type:	
Description:	**1- FAU, 14 registers, 1 compressor (5 ton gas/elec. package), 1 duct mount smoke detector, 2 single duct exhaust/vent, 1 ventilation system (air curtain), 1 evaporative cooler(MUA), 1 hood system @ $12000.00, 1 witness test fee.**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	88087
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **10/30/2014**
Permit Type:
Description: **SCANNED-9 devices, 2 motor/heater/generators**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 88088
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/30/2014**
Permit Type:
Description: **1 water closet, 1 lavatory, 1 urinal, 4 sinks, 5 floor drains, 1 water heater**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 88089
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/8/2002**
Permit Type:
Description: **1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 57565
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4316 SEPULVEDA BLVD

Date:	**3/23/2009**
Permit Type:	
Description:	**3 illuminated LED halo channel letter signs**
Permit Description:	**Build**
Work Class:	COMMERCIAL MISC
Proposed Use:	
Permit Number:	74620
Status:	Final
Valuation:	$13,083.00
Contractor Company:	
Contractor Name:	

Date:	**3/23/2009**
Permit Type:	
Description:	**3 illuminated LED halo channel letter signs**
Permit Description:	**Electrical**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	74621
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**3/11/2009**
Permit Type:	
Description:	**1 water closet, 1 lavatory, 1 trap primer, 1 floor or area drain, 3 gas outlets, 1 water heater, 1 water heater vent**
Permit Description:	**Plumbing**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	74544
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**1/9/2009**
Permit Type:	
Description:	**7 circuits, 56 electrical devices, 1 service panel, 1 time clock**
Permit Description:	**Electrical**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	74207
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **1/7/2009**
Permit Type:
Description: **SCANNED - 2 FAU, 2 appliance vents, 40 registers, 2 boiler/compressor(3.1hp - 15hp), 2 duct or area smoke detectors, 3 single duct fans, 1 test witness fee (hood/shut off)**

Permit Description: **Mechanical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 74193
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/4/2008**
Permit Type:
Description: **1 gas outlet**

Permit Description: **Plumbing**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 74014
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/30/2006**
Permit Type:
Description: **SCANNED - Adding 1370 sq. ft. to existing second story floor area**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 68074
Status: Final
Valuation: $137,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/17/1998**
Permit Type:
Description: **3 SUB PANELS**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 47253
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/16/1998**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: MISC
Proposed Use:
Permit Number: 47247
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/26/1998**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 45639
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/19/1998**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 45578
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/19/1998**
Permit Type:
Description: **BATH, NO NEW FIXTURES**

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 45579
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/28/1998**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 45441
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/17/1997**
Permit Type:
Description: **NEW STORE FRONT, H.C. BATHROOMS,PKINGLOT**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 44972
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

4317 SEPULVEDA BLVD

Date: **9/4/2008**
Permit Type:
Description: **13 branch circuits, 53 electrical devices, 1 service panel/ sub panel**

Permit Description: **Electrical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 73357
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/14/2008**
Permit Type:
Description: **11 registers**

Permit Description: **Mechanical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 73218
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/9/2008**
Permit Type:
Description: **12 electrical devices**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 72673
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/9/2008**
Permit Type:
Description: **Replacing drywall to ceiling of unit**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 72674
Status: Closed
Valuation: $900.00
Contractor Company:
Contractor Name:

Date: **7/15/1997**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 43834
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/8/1997**
Permit Type:
Description: **HEAT PUMP**

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43323
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/6/1997**
Permit Type:
Description: **SITE**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43302
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/18/1997**
Permit Type:
Description: **ADD H.C. BATH & UTILITY ROOM**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 43174
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/18/1997**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43175
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

4318 SEPULVEDA BLVD

Date: **8/14/2014**
Permit Type:
Description: **1 compressor, 1 alteration to existing system, 4 registers, 1 air handling unit**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 87476
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/12/2007**
Permit Type:
Description: **1 water pressure regulator, 1 hose bib**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 69549
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/27/1994**
Permit Type:
Description: **- EXIST. POLE**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 35026
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

4319 SEPULVEDA BLVD

Date: **9/12/2018**
Permit Type:
Description: **1 illuminated sign**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B18-0725
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/12/2018**
Permit Type:
Description: **1 illuminated sign**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E18-0655
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/24/2017**
Permit Type:
Description: **Code Enforcement Case - change existing use (spa) to lodging and add new 572 sf. to second floor.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B17-0288
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/16/2009**
Permit Type:
Description: **Installing one non-illuminated sign**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 76402
Status: Final
Valuation: $500.00
Contractor Company:
Contractor Name:

Date: **9/27/2006**
Permit Type:
Description: **1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 68273
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**9/14/2006**
Permit Type:	
Description:	**SCANNED- 1 FAU, 1 appliance vent, 27 registers, 1 compressor, 1 gas outlet, 2 duct smoke detectors, 2 single duct fan, 1 ventilation sytem upto 1000 cfm. 1 witness test fee.**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	68176
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**7/6/2006**
Permit Type:	
Description:	**1 water closet, 1 lavatory, 9 sinks, 1 clothes washer standpipe, 1 laundry tray, 1 gas outlet, 1 water heater, 1 hose bib**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	67675
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **6/19/2006**
Permit Type:
Description: **6 circuits, 34 electrical devices**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 67550
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/19/2006**
Permit Type:
Description: **1 appliance vent**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 67551
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/30/2006**
Permit Type:
Description: **E5 - Tenant Improvement - 800 sq. ft.**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 67371
Status: Expired
Valuation: $26,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4320 SEPULVEDA BLVD

Date: **11/8/2012**
Permit Type:
Description: **10 electrical devices**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 83047
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/30/2012**
Permit Type:
Description: **Construction of partition wall to create office space and new exit door.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 82973
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/23/2007**
Permit Type:
Description: **Installing 3 36"x96" illuminated wall sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 70573
Status: Final
Valuation: $3,500.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/13/2006**
Permit Type:
Description: **3 FAU's, 3 appliance vents, 3 3hp compressors, 3 gas outlets**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 68568
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/5/2006**
Permit Type:
Description: **Reroof, tearing off existing and replacing with built up roof**

Permit Description: **Build**
Work Class: COMMERCIAL RROOF
Proposed Use:
Permit Number: 67444
Status: Final
Valuation: $5,000.00
Contractor Company:
Contractor Name:

Date: **6/1/2006**
Permit Type:
Description: **11 devices, 1 service panel, 3 sub-panels, 3 illuminated signs, 1 time clock**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 67409
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/10/2006**
Permit Type:
Description: **SCANNED - Remodeling facade of existing commercial building**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 67222
Status: Final
Valuation: $64,000.00
Contractor Company:
Contractor Name:

Date: **2/28/2005**
Permit Type:
Description: **2 sided, 60 ft. high pole V sign, illuminated, with 14' x 48' faces**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 64128
Status: Expired
Valuation: $50,000.00
Contractor Company:
Contractor Name:

Date: **5/17/1995**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 37656
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **8/8/1994**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 35156
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/29/1994**
Permit Type:
Description: **TO ANOTHER A-29**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 35063
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4321 SEPULVEDA BLVD

Date:	**4/21/2008**
Permit Type:	
Description:	**SCANNED- 1. FAU, 1 appliance vents, 1 existing system alter, 38 registers, 1. compressor, 2 duct smoke detectors, 1 witness test fee.**
Permit Description:	**Mechanical**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	72350
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**2/28/2007**
Permit Type:	
Description:	**24 circuits, 56 electrical devices, 4 motors/heaters/transformers, 3 service panels, 1 time clock**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	69220
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **12/14/2006**
Permit Type:
Description: **BB6 - Tenant Improvement on existing 2nd floor (adding 572 sq. ft., adding jacuzzi)**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 68785
Status: Expired
Valuation: $194,000.00
Contractor Company:
Contractor Name:

Date: **11/16/2006**
Permit Type:
Description: **2 water closets, 2 lavatories, 1 bathtub, 11 showers, 9 sinks, 5 trap primers, 9 floor drains, 2 water heaters, 1 steam unit, 2 repairs/alterations to existing piping, 4 hot tubs, 1 building sewer, 6 gas outlets, 1 clothes washer standpipe, 1 kitchen sink**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 68591
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/16/2006**
Permit Type:
Description: **Permit to begin work while in plan check for permit #68591**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 68592
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4322 SEPULVEDA BLVD

Date: **7/2/2018**
Permit Type:
Description: **10 devices, 1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E18-0448
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/26/2010**
Permit Type:
Description: **(2) non-illuminated wall signs**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 77414
Status: Final
Valuation: $500.00
Contractor Company:
Contractor Name:

Date: **5/20/2008**
Permit Type:
Description: **27 electrical devices**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 72559
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**4/29/2008**
Permit Type:	
Description:	**Scanned- Tenant Improvement of new Thai restaurant (960 sq. ft.)**
Permit Description:	**Build**
Work Class:	COMMERCIAL ALTERATION
Proposed Use:	
Permit Number:	72415
Status:	Final
Valuation:	$43,360.00
Contractor Company:	
Contractor Name:	

Date:	**4/29/2008**
Permit Type:	
Description:	**New Restaurant (1,000 sq. ft.) - 1 existing system alter, 8 registers, 2 single duct vent/exhaust/supply fans, 1 MUA system, 1 Type-1 hood value $8,800.00, 1 test witness fee**
Permit Description:	**Mechanical**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	72417
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **4/29/2008**
Permit Type:
Description: **SCANNED - New Restaurant (1,000 sq. ft.) - 1 water closet, 1 lavatory, 3 kitchen sinks, 1 mop sink, 1 employee hand wash sink, 1 food waste disposal, 1 drinking fountain, 1 floor or area drain, 5 gas outlets, 1 industrial waste interceptor**

Permit Description: **Plumbing**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 72418
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/23/2007**
Permit Type:
Description: **Installing 3 36"x96" illuminated wall sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 70574
Status: Final
Valuation: $1,000.00
Contractor Company:
Contractor Name:

Date: **4/28/2003**
Permit Type:
Description: **Add Partition Part Of Wall**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 59440
Status: Final
Valuation: $1,500.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4323 SEPULVEDA BLVD

Date: **2/18/2014**
Permit Type:
Description: **PVC letters attached to wall.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 86144
Status: Void
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/5/2010**
Permit Type:
Description: **Installation of new illumintaed sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 77839
Status: Final
Valuation: $400.00
Contractor Company:
Contractor Name:

Date: **8/5/2010**
Permit Type:
Description: **Installation of new illumintaed sign**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 77840
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/19/2001**
Permit Type:
Description: **Painted sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 55453
Status: Final
Valuation: $250.00
Contractor Company:
Contractor Name:

4324 SEPULVEDA BLVD

Date: **8/23/2007**
Permit Type:
Description: **Installing 3 36"x96" illuminated wall sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 70575
Status: Final
Valuation: $1,000.00
Contractor Company:
Contractor Name:

Date: **6/15/2006**
Permit Type:
Description: **Tenant Improvement (new partitions walls) - 909 sq. ft.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 67522
Status: Withdrawn
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/29/2004**
Permit Type:
Description: **SCANNED- Tenant Improvement - Massage/Beauty salon (partition walls and bathroom)**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 61888
Status: Final
Valuation: $10,000.00
Contractor Company:
Contractor Name:

Date: **1/29/2002**
Permit Type:
Description: **Cut Out Foam Letters**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 56279
Status: Final
Valuation: $600.00
Contractor Company:
Contractor Name:

Date: **9/22/1997**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 44425
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/14/1993**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 31034
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

4325 SEPULVEDA BLVD

Date: **1/20/2009**
Permit Type:
Description: **2 service panels**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 74239
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/12/2004**
Permit Type:
Description: **one litght box sign**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 61343
Status: Final
Valuation: $1,200.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **1/12/2004**
Permit Type:
Description: **1sign**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 61344
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/20/2003**
Permit Type:
Description: **PAINTED SIGN**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 60790
Status: Final
Valuation: $500.00
Contractor Company:
Contractor Name:

Date: **12/3/1996**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42206
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/3/1996**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42208
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/4/1994**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 33944
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4327 SEPULVEDA BLVD

Date:	**2/11/2009**
Permit Type:	
Description:	**9 registers, 1 compresor, 1 air handling unit, 1 duct smoke detector, 2 signle duct fans, 1 witness test fee. investigation fee.**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	74384
Status:	Void
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/31/2008**
Permit Type:	
Description:	**2 circuits, 26 electrical devices, 1 service panel/sub-panel**
Permit Description:	**Electrical**
Work Class:	COMMERCIAL
Proposed Use:	
Permit Number:	74157
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **12/31/2008**
Permit Type:
Description: **Hanging drywall, new drop ceiling**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 74158
Status: Closed
Valuation: $4,300.00
Contractor Company:
Contractor Name:

Date: **8/14/2000**
Permit Type:
Description: **RE-ROOF 20 SQ. NO STRUCTURAL WORK.NEW BUILT-UP ROOF CLASS B MIN.**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 52837
Status: Final
Valuation: $2,600.00
Contractor Company:
Contractor Name:

Date: **1/18/1995**
Permit Type:
Description: **WALL FRONT FACING**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 36565
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **8/24/1993**
Permit Type:
Description: **TO COMPLETE CEILING OVER HALLWAY**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 32152
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/25/1992**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 28523
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4328 SEPULVEDA BLVD

Date:	**10/11/2013**
Permit Type:	
Description:	**SCANNED - 3 - FAU, 24 registers, 3 - compressors (3 - 3.5 ton gas/elec. packages), 3 air handling units, 3 duct or area smoke detectors, 1 single duct exhaust/fan, 1 witness test fee., 3 gas outlets**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	85415
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**10/1/2013**
Permit Type:	
Description:	**3 circuits, 1 service panel**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	85328
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**12/15/2004**
Permit Type:	
Description:	**Tear off existing roof, replacing with one layer of base 25, one layer of ply 11, one layer of cap sheet**
Permit Description:	**Build**
Work Class:	COMMERCIAL RROOF
Proposed Use:	
Permit Number:	63744
Status:	Final
Valuation:	$9,000.00
Contractor Company:	
Contractor Name:	

Date:	**6/21/2002**
Permit Type:	
Description:	**1 service panel**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	57203
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4334 SEPULVEDA BLVD

Date:	**6/10/2014**
Permit Type:	
Description:	**Tenant Improvement (900 s.f.) - New nail salon.**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	86947
Status:	Withdrawn
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**6/10/2014**
Permit Type:	
Description:	**Tenant Improvement (900 s.f.) - New nail salon. - 1 single duct vent/exhaust, 1 ventilation system**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	86948
Status:	Withdrawn
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **6/10/2014**
Permit Type:
Description: **Tenant Improvement (900 s.f.) - New nail salon. - 1 circuit, 40 electrical devices**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 86949
Status: Withdrawn
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/10/2014**
Permit Type:
Description: **Tenant Improvement (900 s.f.) - New nail salon. - 1 water closet, 1 lavatory, 4 sinks**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 86950
Status: Withdrawn
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/28/2009**
Permit Type:
Description: **1 non illuminated sign (re-locating)**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 74304
Status: Final
Valuation: $1.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/9/2008**
Permit Type:
Description: **12 electrical devices, 1 service panel up to 200 amps**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 74032
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

4337 SEPULVEDA BLVD

Date: **8/14/2013**
Permit Type:
Description: **Contruction of two non-bearing walls**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 84996
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/18/2001**
Permit Type:
Description: **1 motor, 2 panels**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 54780
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4338 SEPULVEDA BLVD

Date: **2/4/2002**
Permit Type:
Description: **Tear off old roofing, install 5-course built-up hot tar roofing, 55 squares**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 56305
Status: Final
Valuation: $7,000.00
Contractor Company:
Contractor Name:

Date: **12/13/1996**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 42278
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/13/1996**
Permit Type:
Description: **FOR ELECT. PANEL**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42304
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/20/1996**
Permit Type:
Description: **APEX AQUARIUMS**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 40866
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

4343 SEPULVEDA BLVD

Date: **3/27/2014**
Permit Type:
Description: **1 circuit**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 86381
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/5/2014**
Permit Type:
Description: **1 water service, 1 backflow device, repipe @ $4300**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 86231
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/9/2009**
Permit Type:
Description: **(1) illuminated sign and (4) awnings.**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 76348
Status: Final
Valuation: $8,340.00
Contractor Company:
Contractor Name:

Date: **11/9/2009**
Permit Type:
Description: **1 illuminated sign**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 76349
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/6/2009**
Permit Type:
Description: **SCANNED - Remodel front facade of building.**

Permit Description: **Build**
Work Class: COMMERCIAL MISC
Proposed Use:
Permit Number: 76104
Status: Final
Valuation: $30,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/26/2009**
Permit Type:
Description: **3 furnaces, 3 boiler/compressors, 1 ventilation system, 3 smoke detectors**

Permit Description: **Mechanical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 74981
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/1/2009**
Permit Type:
Description: **3 circuits**

Permit Description: **Electrical**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 74862
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/30/2009**
Permit Type:
Description: **1 trap primer, 1 drain, 3 gas outlets, 1 hose bibs, 3 repair/alt to existing**

Permit Description: **Plumbing**
Work Class: COMMERCIAL
Proposed Use:
Permit Number: 74841
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/30/2009**
Permit Type:
Description: **SCANNED - Removing existing glu lam and replacing with new glu lam, roof screening**

Permit Description: **Build**
Work Class: COMMERCIAL ALTERATION
Proposed Use:
Permit Number: 74642
Status: Final
Valuation: $35,000.00
Contractor Company:
Contractor Name:

Date: **2/22/1999**
Permit Type:
Description: **64 SQ BIG 5**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 48459
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/5/1994**
Permit Type:
Description: **SILVER ROOF COATING**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 33276
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

TULLER AVE

4132 TULLER AVE

Date:	**7/3/2007**
Permit Type:	
Description:	**Repair portion of existing block wall**
Permit Description:	**Build**
Work Class:	MULTI FAMILY DWELLING FN/WL
Proposed Use:	
Permit Number:	70157
Status:	Final
Valuation:	$1,500.00
Contractor Company:	
Contractor Name:	

4140 TULLER AVE

Date:	**9/26/2006**
Permit Type:	
Description:	**Window replacement, 6 windows**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING ALTERATION
Proposed Use:	
Permit Number:	68267
Status:	Final
Valuation:	$2,550.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **9/11/2006**
Permit Type:
Description: **New 6' high block wall at rear of property**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING FN/WL
Proposed Use:
Permit Number: 68144
Status: Final
Valuation: $3,850.00
Contractor Company:
Contractor Name:

Date: **8/11/2006**
Permit Type:
Description: **Tearing off existing roof to triplex and detached garage, installing two layers 30 lb. ASTM felt class A 30 year fiberglass shingles, 30 squares**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING RROOF
Proposed Use:
Permit Number: 67957
Status: Final
Valuation: $6,000.00
Contractor Company:
Contractor Name:

Date: **10/25/2002**
Permit Type:
Description: **Building sewer repair for 4140, 4142, & 4144 Tuller Ave.**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 58182
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/23/1997**
Permit Type:
Description: **RECESSED WALL HEATER**

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 45219
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/11/1997**
Permit Type:
Description: **ALLEY, R&R GATE @ SIDE YARD4140/42/44**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 44309
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

4200 TULLER AVE

Date: **4/24/2000**
Permit Type:
Description: **L SHAPED BLOCK WALL PER MODIFIED CITY DETAIL ALONG ALLEY**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 51991
Status: Final
Valuation: $1,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4212 TULLER AVE

Date: **9/26/1994**
Permit Type:
Description: **(2 TOTAL) AMNESTY A90-0560**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 35566
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/6/1992**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 29739
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4216 TULLER AVE

Date:	**5/31/2011**
Permit Type:	
Description:	**1 service panel**
Permit Description:	**Electrical**
Work Class:	RESIDENTIAL
Proposed Use:	
Permit Number:	79564
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

4221 TULLER AVE

Date:	**10/25/2013**
Permit Type:	
Description:	**1 building sewer**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	85496
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **1/20/2012**
Permit Type:
Description: **1 water heater**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 81029
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/13/2008**
Permit Type:
Description: **Tearing off existing roof house and garage (detached), installing 30 yr comp shingles class "A", 24 sqs.**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING RROOF
Proposed Use:
Permit Number: 73649
Status: Final
Valuation: $6,100.00
Contractor Company:
Contractor Name:

Date: **3/19/2008**
Permit Type:
Description: **Removing earthquake damaged brick chimney and replacing with zero clearance firebox (per Type V) in same location**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 72144
Status: Final
Valuation: $10,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/28/2008**
Permit Type:
Description: **SANDBLASTING (WET) EXTERIOR STUCCO ON 2-29-08**

Permit Description: **Build**
Work Class: SNDBLAST
Proposed Use:
Permit Number: 71817
Status: Final
Valuation: $700.00
Contractor Company:
Contractor Name:

Date: **2/12/2008**
Permit Type:
Description: **Voluntary foundation bolting of existing single family residence per L.A. City standard plan**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 71690
Status: Final
Valuation: $2,000.00
Contractor Company:
Contractor Name:

Date: **12/19/2000**
Permit Type:
Description: **water heater c/o**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 53732
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4224 TULLER AVE

Date:	**6/4/2008**
Permit Type:	
Description:	**Solar Photovoltaic System @ $27,460**
Permit Description:	**Electrical**
Work Class:	RESIDENTIAL
Proposed Use:	
Permit Number:	72638
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/16/2005**
Permit Type:	
Description:	**1 FAU, 1 compressor, 9 registers, 1 gas outlet, 1 appliance vent, 1 exhaust fan**
Permit Description:	**Mechanical**
Work Class:	
Proposed Use:	
Permit Number:	64216
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/16/2004**
Permit Type:	
Description:	**20 circuits, 52 lights/switches/receptacles/smoke detectors, 1 service panel**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	63755
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **12/16/2004**
Permit Type:
Description: **1 water closet, 1 lavatory, 1 shower, 2 gas outlets, 1 water heater, 1 water heater vent**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 63756
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/28/2004**
Permit Type:
Description: **SCANNED - Addition of bedroom and bathroom over existing garage**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 62567
Status: Final
Valuation: $80,000.00
Contractor Company:
Contractor Name:

Date: **9/24/2001**
Permit Type:
Description: **Remove existing roof on house and attached garage, install 25 year shingle, 25 squares**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 55469
Status: Final
Valuation: $5,100.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/3/1999**
Permit Type:
Description: **new swim pool**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 50164
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/3/1999**
Permit Type:
Description: **gas line for swim pool**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 50165
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/20/1999**
Permit Type:
Description: **J-23**
NEW LAP POOL/SPA , SEPERATING FENCE AROUND POOL.

Permit Description: **Build**
Work Class: POOL
Proposed Use:
Permit Number: 50001
Status: Final
Valuation: $30,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4225 TULLER AVE

Date: **4/14/1997**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43143
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/5/1997**
Permit Type:
Description: **W/ CL B COMP SHING. 10 SQS**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 42841
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/31/1995**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 39136
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4230 TULLER AVE

Date: **7/9/2002**
Permit Type:
Description: **Block Wall**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 57319
Status: Final
Valuation: $1,000.00
Contractor Company:
Contractor Name:

Date: **1/5/2001**
Permit Type:
Description: **relocaring bathtub**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 53821
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/5/2001**
Permit Type:
Description: **two lights, two switches - closet/bathroom**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 53822
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **12/5/2000**
Permit Type:
Description: **Putting up wall to make walk-in closet**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 53628
Status: Final
Valuation: $4,400.00
Contractor Company:
Contractor Name:

Date: **9/1/2000**
Permit Type:
Description: **relocating meter**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 52980
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/7/1998**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 47402
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/6/1997**
Permit Type:
Description: **SHEETING & REROOF W/ COMP SHING. CL A**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 44896
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/2/1995**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 37784
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4231 TULLER AVE

Date:	**10/19/2000**
Permit Type:	
Description:	**Reroof house and garage with new plywood sheeting, install 30 yr composition shingles**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING ALTERATION
Proposed Use:	
Permit Number:	53347
Status:	Final
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	

Date:	**1/17/1996**
Permit Type:	
Description:	**ALL FENCING ON MY SIDE OF PROPERTY**
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	39700
Status:	Final
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4235 TULLER AVE

Date:	**9/14/2004**
Permit Type:	
Description:	**SANDBLASTING HOUSE AND GARAGE ON 9/15/04**
Permit Description:	**Build**
Work Class:	SNDBLAST
Proposed Use:	
Permit Number:	63175
Status:	Final
Valuation:	$700.00
Contractor Company:	
Contractor Name:	

Date:	**8/5/2004**
Permit Type:	
Description:	**Replacing 1 window in bedroom**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING MISC
Proposed Use:	
Permit Number:	62897
Status:	Final
Valuation:	$250.00
Contractor Company:	
Contractor Name:	

Date:	**7/16/2004**
Permit Type:	
Description:	**1 irc 120, 1 220 circ, and 200 amp panel**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	62709
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **6/29/2004**
Permit Type:
Description: **1 furnace up to 100,000 btu, 1 appliance vent, 11 registers/grills, 1 boiler/compressor 3.1 hp-8hp, 1 gas system**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 62588
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/29/2004**
Permit Type:
Description: **1 120 volt branch circuit, 1 208-480 volt branch circuit**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 62590
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/8/1994**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 34509
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/3/1994**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 34199
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/1/1994**
Permit Type:
Description: **REMOVE EXIST. WALLS ENLG BATH**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 33628
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/28/1994**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 33629
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**2/28/1994**
Permit Type:	
Description:	

Permit Description:	**Electrical**
Work Class:	ALTERATION
Proposed Use:	
Permit Number:	33630
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

4236 TULLER AVE

Date:	**5/15/2008**
Permit Type:	
Description:	**SCANNED- Enclose existing 380 sq. ft.open deck at second floor of an existing two-story single family residence**

Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING ALTERATION
Proposed Use:	
Permit Number:	72529
Status:	Final
Valuation:	$20,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **11/28/2007**
Permit Type:
Description: **Adding new enclosed patio (417 sq. ft.) on second story**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 71201
Status: Not Approved
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/12/2007**
Permit Type:
Description: **Remove existing layer of liberty flat from house and attached garage, installing liberty flat, 12 squares**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING RROOF
Proposed Use:
Permit Number: 70736
Status: Final
Valuation: $4,221.00
Contractor Company:
Contractor Name:

Date: **12/4/2001**
Permit Type:
Description: **Re-Roof tear off and builtup roof GAF Class "A"**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 55939
Status: Final
Valuation: $2,050.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/2/1997**
Permit Type:
Description: **REMOVE UNPERMITTED PATIO OTC - RICKI**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 43272
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

4241 TULLER AVE

Date: **11/29/2001**
Permit Type:
Description: **deck in back yard 12x20 hgt 30"**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 55911
Status: Final
Valuation: $1,000.00
Contractor Company:
Contractor Name:

Date: **5/11/1999**
Permit Type:
Description: **J-36 NEW ROOF GARAGE RECONFIGURE, REMOVE AND REPLACE 5 WINDOWS**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 49047
Status: Issued
Valuation: $8,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/31/1994**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 33903
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

4318 TULLER AVE

Date: **1/6/2009**
Permit Type:
Description: **1 fau, 10 registers**

Permit Description: **Mechanical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 74178
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4321 TULLER AVE

Date: **4/21/2015**
Permit Type:
Description: **1 fau, 8 registers, 1 boiler/compressor (3 ton), 1 appliance vent**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 89327
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/18/2015**
Permit Type:
Description: **1 ventilation system**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 89046
Status: Void
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/2/2015**
Permit Type:
Description: **7 circuits, 23 electrical devices**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 88901
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/2/2015**
Permit Type:
Description: **1 dishwasher, 1 food waste disposal, 1 alteration to existing piping**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 88902
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/17/2014**
Permit Type:
Description: **Kitchen remodel, remove wall between bath and hallway area**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 88211
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/14/1998**
Permit Type:
Description: **10/6/97**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 45343
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **10/31/1997**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 44847
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/31/1997**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 44848
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/31/1997**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 44849
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **10/7/1997**
Permit Type:
Description: **12 SQ**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 44564
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/7/1997**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 44565
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4326 TULLER AVE

Date:	**8/29/2000**
Permit Type:	
Description:	**remove existing roof, install 1/2" plywood install 25 yr shingle class "A" roof hosue and att garage 20 sq**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING MISC
Proposed Use:	
Permit Number:	52949
Status:	Final
Valuation:	$5,100.00
Contractor Company:	
Contractor Name:	

Date:	**2/10/2000**
Permit Type:	
Description:	**NEW BATHROOM**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	51447
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **2/10/2000**
Permit Type:
Description: **NEW BATHROOM HEATER**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 51448
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/10/2000**
Permit Type:
Description: **NEW BATHROOM ADDTN**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 51449
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/7/2000**
Permit Type:
Description: **CONVERT CLOSET INTO HALF BATH.**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 51422
Status: Final
Valuation: $1,100.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/20/1998**
Permit Type:
Description:

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 47783
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/20/1998**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 47784
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/9/1997**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 43784
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/24/1997**
Permit Type:
Description: **SPACE A-16**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 43212
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/16/1996**
Permit Type:
Description: **STORAGE, DEMO PATIO COVER AT REAR**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 40583
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4335 TULLER AVE

Date:	**4/29/2004**
Permit Type:	
Description:	**Tearing off existing roof on house and garage, reroofing with 30 year composition shingle, 29 squares**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING RROOF
Proposed Use:	
Permit Number:	62157
Status:	Final
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	

Date:	**4/15/2004**
Permit Type:	
Description:	**new water closet, lav, bath tub, standpipe, laundry tray 1 eq valve, 1 relocate water heater one hose bib** sewer repair, installing one backflow device and sump pump**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	62037
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **4/15/2004**
Permit Type:
Description: **one motor 50-200, installing service switch in line of sump pump**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 62038
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/2/2003**
Permit Type:
Description: **"F-16" Remodeling/enlaring existing bathroom**bag 84**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 60655
Status: Final
Valuation: $8,000.00
Contractor Company:
Contractor Name:

4336 TULLER AVE

Date: **8/8/2006**
Permit Type:
Description: **Constructing block wall to rear and side of house**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING FN/WL
Proposed Use:
Permit Number: 67922
Status: Final
Valuation: $8,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/31/1996**
Permit Type:
Description: **RG TO VEH USE,REMV WD PATIO COVR R/YARD order to comply attached to permit,dated 2/19/96**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 41164
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/3/1996**
Permit Type:
Description: **AFT alumn. patio cover 14 X 12**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 40484
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4339 TULLER AVE

Date: **9/12/2018**
Permit Type:
Description: **1 boiler compressor**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M18-0404
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/8/2014**
Permit Type:
Description: **Replacing existing asphalt shignles from front of house only, 12 squares**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 88346
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/2/2008**
Permit Type:
Description: **3 circuits, 31 lights/switches/receptacles, 1 service panel**

Permit Description: **Electrical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 72904
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/30/2008**
Permit Type:
Description: **1 fau, 7 registers, 1 boiler/compressor, 1 single duct exhaust fan**

Permit Description: **Mechanical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 72866
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/9/2008**
Permit Type:
Description: **1 water closet, 1 lavatory, 1 shower pan**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 72679
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/8/2008**
Permit Type:
Description: **Adding 374 sq. ft. master bedroom with bathroom to single family residence**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 72274
Status: Final
Valuation: $50,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/29/2004**
Permit Type:
Description: **3 circuits, 10 lights, 3 switches, 3 receptacles, 1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 62164
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/29/2004**
Permit Type:
Description: **1 water closet, 1 lavatory, 1 bathtub, 1 kitchen sink, 1 dishwasher, 1 food waste disposal, 1 clothes washer standpipe, 1 gas outlet, 1 water heater, 1 water heater vent**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 62165
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/9/2001**
Permit Type:
Description: **Service upgrade**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 55184
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/17/1996**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 41052
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

4340 TULLER AVE

Date: **5/18/2018**
Permit Type:
Description: **New 6' block wall at rear of property.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: B18-0373
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/27/2008**
Permit Type:
Description: **1 motor/heater/transformer/generator**

Permit Description: **Electrical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 72586
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/27/2008**
Permit Type:
Description: **1 boiler/compressor, 1 repair/ alteration to existing system, 1 register**

Permit Description: **Mechanical**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 72587
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/27/1996**
Permit Type:
Description: **SEWER**

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 41383
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/9/1996**
Permit Type:
Description: **TO ALUMINUM DUEL GLAZED SAME SIZE**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 40293
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

WAGNER ST

11151 WAGNER ST

Date:	**9/22/2004**
Permit Type:	
Description:	**Tearing off existing roof on house and detached garage, installing new 30 year composition shingles, 22 squares**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING RROOF
Proposed Use:	
Permit Number:	63243
Status:	Final
Valuation:	$3,800.00
Contractor Company:	
Contractor Name:	

Date:	**3/11/1998**
Permit Type:	
Description:	**NEW SINK & MOP BASIN**
Permit Description:	**Plumbing**
Work Class:	ALTERATION
Proposed Use:	
Permit Number:	45747
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **3/11/1998**
Permit Type:
Description: **18, RELOCATE INSTALL 14**

Permit Description: **Electrical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 45748
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/11/1998**
Permit Type:
Description: **DUCT FAN**

Permit Description: **Mechanical**
Work Class: ALTERATION
Proposed Use:
Permit Number: 45749
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/24/1997**
Permit Type:
Description: **REMODEL KITCHEN**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 45256
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/17/1992**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 29817
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

11155 WAGNER ST

Date: **3/22/2001**
Permit Type:
Description: **reroof, t/o existing replace with comp shingle no plywood house and detach 23 sq**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 54293
Status: Final
Valuation: $4,600.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11166 WAGNER ST

Date:	**12/7/2005**
Permit Type:	
Description:	**1 service panel (200 amps)**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	66221
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

11171 WAGNER ST

Date:	**5/3/2018**
Permit Type:	
Description:	**1 bathtub, 1 clothes washer standpipe, 1 hose bib, 1 lavatory, 1 repair/alteration to existing piping, re-pipe @ $7000, 1 sink, 1 water closet, 1 water heater, 1 water service**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	
Permit Number:	P18-0231
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **4/10/2018**
Permit Type:
Description: **1 circuit, 1 electrical device**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E18-0256
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/10/2018**
Permit Type:
Description: **1 boiler/comp, 1 furnace, 8 registers, 1 gas system, 1 single duct vent**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M18-0156
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/14/1993**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: NEW
Proposed Use:
Permit Number: 33129
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/10/1993**
Permit Type:
Description:

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 32873
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

11172 WAGNER ST

Date: **3/9/2018**
Permit Type:
Description: **1 service/sub panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E18-0184
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **4/5/2016**
Permit Type:
Description: **2 branch circuit, 2 electrical device, 1 motor/heater/transformer/generator, 1 service panel**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: E16-00248
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/5/2016**
Permit Type:
Description: **1 furnace, 8 registers, 1 boiler/compressor, 1 gas system**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: M16-0251
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/13/2014**
Permit Type:
Description: **Remove existing, reroof with GAF shingle.**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 87946
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/25/2005**
Permit Type:
Description: **Replacing 11 existing windows (all same size and location)**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING MISC
Proposed Use:
Permit Number: 65226
Status: Final
Valuation: $5,000.00
Contractor Company:
Contractor Name:

Date: **2/1/2002**
Permit Type:
Description: **Demolish existing non- bearing wall to enlarge dining room**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 56301
Status: Final
Valuation: $500.00
Contractor Company:
Contractor Name:

Date: **9/14/1993**
Permit Type:
Description: **CL A COMP SHING**

Permit Description: **Build**
Work Class:
Proposed Use:
Permit Number: 32349
Status: Final
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11177 WAGNER ST

Date:	**12/14/1999**
Permit Type:	
Description:	**REROOF TEAR OFF EXISTING ROOF TO SOLID SHEATHING INSTALL CLASS A FIBERGLASS AND COMPOSITION SHINGLE**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING MISC
Proposed Use:	
Permit Number:	51061
Status:	Expired
Valuation:	$4,350.00
Contractor Company:	
Contractor Name:	

11178 WAGNER ST

Date:	**6/17/2009**
Permit Type:	
Description:	**Tear off 5 squares on garage and reroof with 30 year tab comp. shingles.**
Permit Description:	**Build**
Work Class:	SINGLE FAMILY DWELLING RROOF
Proposed Use:	
Permit Number:	75116
Status:	Final
Valuation:	$4,194.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **5/13/2009**
Permit Type:
Description: **Installing one layer 30 year tab comp shingles on existing house only**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING RROOF
Proposed Use:
Permit Number: 74926
Status: Final
Valuation: $3,100.00
Contractor Company:
Contractor Name:

Date: **9/24/2008**
Permit Type:
Description: **Dry wall removal for kitchen cabinet**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 73534
Status: Expired
Valuation: $6,000.00
Contractor Company:
Contractor Name:

Date: **9/24/2008**
Permit Type:
Description: **Repair/ replace alteration to exisitng piping, 1 water heater, 1 gas line, 1 kitchen sink, 1 dishwasher, 1 garbage disposal**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 73535
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/18/2004**
Permit Type:
Description: **Replacing sewer line**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 62530
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

11181 WAGNER ST

Date: **6/11/2008**
Permit Type:
Description: **1 gas outlet**

Permit Description: **Plumbing**
Work Class: RESIDENTIAL
Proposed Use:
Permit Number: 72711
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **5/4/1993**
Permit Type:
Description:

Permit Description: **Plumbing**
Work Class: ALTERATION
Proposed Use:
Permit Number: 31164
Status: Issued
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

11182 WAGNER ST

Date: **4/8/2002**
Permit Type:
Description: **Relocate electrical service, 11 lights, 12 outlets**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 56688
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/3/2002**
Permit Type:
Description: **Install heating/air unit, 9 registers**

Permit Description: **Mechanical**
Work Class:
Proposed Use:
Permit Number: 56676
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/15/2002**
Permit Type:
Description: **2 toilets, 3 bathroom sinks, 1 bathtub, 1 shower, 1 repair/alter**

Permit Description: **Plumbing**
Work Class:
Proposed Use:
Permit Number: 56560
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **11/26/2001**
Permit Type:
Description: **Scanned- Addition of family room, powder room, master bedroom and master bath**

Permit Description: **Build**
Work Class: SINGLE FAMILY DWELLING ALTERATION
Proposed Use:
Permit Number: 55880
Status: Final
Valuation: $45,000.00
Contractor Company:
Contractor Name:

Date: **8/23/2000**
Permit Type:
Description: **6 - 120 volt circuits, 1 - 240 volt branch circuits, 1 200 amp service**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: 52912
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/21/2000**
Permit Type:
Description: **DEMOLISH STORAGE SHED (60SQ.FT.)AND CONVERT ATTIC BACK TO ATTIC USE.**

Permit Description: **Demo**
Work Class:
Proposed Use:
Permit Number: 52685
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**10/18/1993**
Permit Type:	
Description:	
Permit Description:	**Build**
Work Class:	
Proposed Use:	
Permit Number:	32660
Status:	Final
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

I RESPONSE TO COMMENTS AND COMMENT LETTERS ON DRAFT IS/MND

RESPONSE TO COMMENTS

A Draft IS/MND (SCH: 2018121033) was circulated for a 30-day public review and comment period from December 13, 2018 to January 14, 2019. The Notice of Intent (NOI) to Adopt a Mitigated Negative Declaration was filed with the County of Los Angeles Recorder's Office in Norwalk, submitted to State Clearinghouse, and published in Culver City News on December 13, 2018. The NOI was also emailed to subscribers of the City's GovDelivery system. A digital copy of the proposed IS/MND as well as other documents concerning the project were available for public review on the City's website under City Projects. A hard copy of the IS/MND was available for review by the public at the Engineering Division Counter, City Hall. During the public review period, 6 comment letters were received and provide herein is a copy of each letter received and a response to comments.

Letter Number	**Date Received**	**Agency**	**Author**
1	12/20/2018	Gabrieleno Band of Mission Indians/ Kizh Nation	Gabrieleno Band of Mission Indians/ Kizh Nation
2	01/08/2019	California Department of Toxic Control (DTSC)	Pete Cooke
3	01/09/2019	South Coast Air Quality Management District (SCAQMD)	Lijin Sun, J.D.
4	01/09/2019	California Department of Transportation (Caltrans)	Miya Edmonson
5	01/14/2019	Metropolitan Water District of Southern California	Sean Carlson
6.	1/22/2019	Governor's Office of Planning and Research	Lee Torres

*Letters numbered in the order they were received.

GABRIELENO BAND OF MISSION INDIANS - KIZH NATION
Historically known as The San Gabriel Band of Mission Indians
recognized by the State of California as the aboriginal tribe of the Los Angeles basin

Notice of Intent to Adopt An Initial Study/ Mitigated Negative Declaration

December 20, 2018

City of Culver City

9505 Jefferson Boulevard

Culver City, CA 90232

Good Afternoon Lee Torres,

We have received your Notice of Intent to adopt a Negative Declaration for the Culver Boulevard Realignment and Stormwater Treatment Project in the location of the County of Los Angeles. Our Tribal Government would like to be consulted if any ground disturbance will be conducted for this project.

Sincerely,
Gabrieleno Band of Mission Indians/Kizh Nation
(1844) 390-0787 Office

Andrew Salas, Chairman | Nadine Salas, Vice-Chairman | Dr. Christina Swindall Martinez, secretary
Albert Perez, treasurer I | Martha Gonzalez Lemos, treasurer II | Richard Gradias, Chairman of the council of Elders

PO Box 393 Covina, CA 91723 www.gabrielenoindians@yahoo.com gabrielenoindians@yahoo.com

Letter Number: 1
Date Received: December 20, 2018
Commenter/Agency: Gabrieleno Band of Mission Indians/ Kizh Nation

Response to Comment 1-1:

Comment that the Gabrieleno Band of Mission Indians/ Kizh Nation has received the NOI for the proposed project and would like to be consulted if any ground disturbance will be conducted for the proposed project. IS/MND Section 3.4.17, Tribal and Cultural Resources, includes Mitigation Measure TR-1 that requires a Tribal monitor/consultant who is both approved by the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government and is listed under the NAHC's Tribal Contact list for the area of the project location. This list is provided by the NAHC. The monitor/consultant will only be present on-site during the construction phases that involve ground disturbing activities that have the potential to impact tribal cultural resources within the project area. The locations and types of ground disturbing activities to be monitored will be discussed and defined prior to the start of construction activities by mutual agreement with the Project Applicant and the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government. The Tribal Monitor/consultant will complete daily monitoring logs that will provide descriptions of the day's activities, including construction activities, locations, soil, and any cultural materials identified. The on-site monitoring shall end when the project site grading and excavation activities are completed, or when the Tribal Representatives and monitor/consultant have indicated that the site has a low potential for impacting Tribal Cultural Resources. No issues related to the adequacy of the IS/MND were raised; therefore, no further response is necessary.

Matthew Rodriquez
Secretary for
Environmental Protection

Department of Toxic Substances Control

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

December 21, 2018

Lee Torres, P.E.
Environmental Programs
City of Culver City Public Works Department
9505 W. Jefferson Blvd.
Culver City, CA 90232

MITIGATED NEGATIVE DECLARATION FOR THE CULVER BOULEVARD REALIGNMENT AND STORMWATER TREATMENT PROJECT (PROJECT)

Dear Mr. Torres:

The Department of Toxic Substances Control (DTSC) has received your Notice of Intent to Adopt the Mitigated Negative Declaration for the above-mentioned project.

Based on the review of the document, the DTSC comments are as follows:

1) The document needs to identify and determine whether current or historic uses at the project site have resulted in any release of hazardous wastes/substances at the project area.

2) The document needs to identify any known or potentially contaminated site within the proposed project area. For all identified sites, the document needs to evaluate whether conditions at the site pose a threat to human health or the environment.

3) The document should identify the mechanism to initiate any required investigation and/or remediation for any site that may require remediation, and which government agency will provide appropriate regulatory oversight.

4) If during construction of the project, soil contamination is suspected, construction in the area should stop and appropriate health and safety procedures should be implemented. If it is determined that contaminated soil exists, the document should identify how any required investigation or remediation will be conducted, and which government agency will provide appropriate regulatory oversight.

DTSC provides guidance for Preliminary Endangerment Assessment (PEA) preparation, and cleanup oversight through the Voluntary Cleanup Program (VCP). For additional information on the VCP, please visit DTSC's web site at www.dtsc.ca.gov. If you would like to meet and discuss this matter further, please contact me at (818) 717-6555 or Pete.Cooke@dtsc.ca.gov.

Sincerely,

Pete Cooke
Site Mitigation and Restoration Program - Chatsworth Office

cc: Governor's Office of Planning and Research
State Clearinghouse
P.O. Box 3044
Sacramento, California 95812-3044

Dave Kereazis
Hazardous Waste Management Program, Permitting Division
CEQA Tracking
Department of Toxic Substances Control
P.O. Box 806
Sacramento, California 95812-0806

Letter Number: 2
Date Received: January 8, 2019
Commenter/Agency: Pete Cooke, California Department of Toxic Control

Response to Comments 2-1:

Mr. Cooke indicated that the document needs to identify and determine whether current or historic uses at the site have resulted in any release of hazardous waste/substances and the document needs to identify any known or potentially contaminated site(s) within the proposed project area. For identified sites, the document needs to evaluate whether conditions at the site pose a threat to human health or the environment.

Hazards and Hazardous Materials were addressed in Section 3.4.8 of the IS/MND. As noted in the IS/MND, according to the California Environmental Protection Agency list of hazardous materials sites compiled pursuant to Government Code Section 65962.5, the project area is not located on a hazardous materials site. As noted under existing conditions, the proposed project site is not located at a known hazardous waste disposal site, hazardous substance release site, or landfill; there are no permitted underground storage tank (UST) facilities documented within the project site (California Environmental Protection Agency, 2018; California Environmental Protection Agency, Department of Toxic Substances Control 2018; California State Water Resources Control Board 2018). No drums or hazardous substances were observed on-site based on information reviewed.

In order to provide additional clarification, the *Environmental Records Review, Culver Boulevard Realignment and Stormwater Treatment Project, Culver City, California*. (Tetra Tech January 18, 2019) (ERR) was prepared and is included as Appendix H in the Final IS/MND.

In addition, the following text was added to the response to question "d" in IS/MND Section 3.4.8.

"*The ERR included the following:*

- *Research and review of pertinent and readily available historical aerial photographs and topographic maps of the site and surrounding area;*
- *Interaction with appropriate regional and state agencies to review available records and permits;*
- *Acquisition and review of a regulatory agency database report; and*
- *Preparation and submittal of this report summarizing the results of the ERR.*

The ERR methods of investigation included:

Topographic Map Review. *Historical topographic maps obtained through Environmental Data Resources, Inc. (EDR) (EDR 2019) were reviewed to evaluate past land use and site development.*

Aerial Photograph Survey. *Historical aerial photographs obtained through EDR were reviewed and incorporated into this report (EDR 2019). This review consisted of examining the photographs for evidence of previous activities that may affect the environmental condition of the site.*

Agency Contacts. *During the course of this assessment, the following agencies/organizations were contacted via email, telephone, personal interviews, and/or record searches for information relating to the site:*

- *California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR);*
- *California Environmental Protection Agency (Cal EPA), Department of Toxic Substances Control (DTSC) and*
- *State Water Resources Control Board (SWRCB).*

Regulatory Agency Database and Sanborn Map Search. *EDR maintains comprehensive environmental information databases and historical information, including Sanborn Maps, City Directories, and Building Permits, and specializes in providing such data for use in real estate and environmental documents. EDR performed a search of multiple databases containing specific government records, each within a prescribed search radius of the site. The search radii varied from 0.25 to 1 mile depending on the database. The specific search radii for each database are listed in the EDR report. EDR also reviewed their Sanborn Map and City Directory collection for coverage in the site area (EDR 2019).*

Based on the information presented in the ERR in Appendix H, it was concluded that:

1. *Current or historic uses at the project site have not resulted in any release of hazardous wastes/substances at the project area; and*
2. *There are no known or potentially contaminated sites within the proposed project area, and there are no conditions at the site that pose a threat to human health or the environment*."

and

"*The results of the ERR did not result in any changes to the level of significance. As noted in the draft IS/MND, the project site is not located on a site that is included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5 and, as a result, would not create a significant hazard to the public or the environment. Therefore, no project impact would result*."

Response to Comments 2-2:

Mr. Cooke indicated that the document should identify the mechanism to initiate any required investigation and/or remediation for any site that may require remediation, and which government agency will provide appropriate regulatory oversight. If during construction soil contamination is suspected, then construction in the area should stop and appropriate health and safety procedures should be implemented. If it is determined that contaminated soil exists, then the document should identify required investigation or remediation that will be conducted and identify appropriate government agency for oversight.

As noted above, and in the IS/MND Section 3.4.8, the project site is not located on a site that is included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5. In order to provide additional clarification, the following was added to Section 3.4.8 of the IS/MND:

"In the unlikely event that evidence for potentially contaminated soil or groundwater is encountered during the execution of the project, additional site investigation and/or remediation

may be required in accordance with the provisions of California Health and Safety Code Chapters 6.7 and 6.75 if it originates from an UST, or California Health and Safety Code Chapters 6.5 and 6.11 if the source of contamination was from a source other than a UST. Construction in the area should stop and appropriate health and safety procedures should be implemented. If it is determined that contaminated soil exists, the DTSC should be notified and provide regulatory oversight. For sites where it is determined that impacted groundwater exists, the Regional Water Quality Control Board, Los Angeles Region (LARWQCB) should be notified and provide regulatory oversight. For sites where both impacted soil and groundwater is encountered, the DTSC and LARWQCB should be notified and provide regulatory oversight. For sites where underground storage tanks (USTs) are involved, the Los Angeles County Fire Department is the State of California as a Certified Unified Program Agency (CUPA) for Culver City and should be notified and provide regulatory oversight for UST removal and abandonment. The scope of any investigation and/or remediation that would be conducted would be dependent on the type and extent of the contamination encountered and associated regulatory agency requirements."

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL AND USPS: January 9, 2019
Leonardo.TorresJr@culvercity.org
Lee Torres, Senior Civil Engineer
City of Culver City, Environmental Programs and Operations Division
9505 Jefferson Boulevard
Culver City, CA 90232

Mitigated Negative Declaration (MND) for the Proposed
Culver Boulevard Realignment and Stormwater Treatment Facility Project

South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The following comments are meant as guidance for the Lead Agency and should be incorporated into the Final MND.

SCAQMD Staff's Summary of Project Description
The Lead Agency is proposing the construction of an underground stormwater reservoir and the realignment of an approximate 0.45-mile portion of Culver Boulevard between Sepulveda Boulevard and Elenda Street (Proposed Project). Construction of the Proposed Project is expected to occur over 18 months beginning in late 2019. Construction of the proposed underground stormwater reservoir and realignment project components would overlap during the 2019 and 2020 calendar years[1].

SCAQMD Staff's Summary of Air Quality Analysis
In the Air Quality Analysis, the Lead Agency quantified the Proposed Project's construction emissions and compared those emissions to SCAQMD's regional and localized air quality CEQA significance thresholds for construction. While the Proposed Project's air quality impacts from construction were found to be less than significant, as shown in Table 3-3 in the MND[2], the Proposed Project's daily maximum construction NOx emissions in 2019 would be 92 pounds per day (lbs/day), which is slightly below SCAQMD's regional air quality CEQA significance threshold for NOx (100 lbs/day). Additionally, based on a review of the CalEEMod output file, SCAQMD staff found that the air modeling assumed the use Tier 2 off-road construction equipment[3].

Recommended Mitigation Measures
CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize or eliminate any significant adverse air quality impacts. While the Proposed Project's NOx emissions during construction (i.e., approximately 92 lbs/day) were found to be less than significant, to further reduce the NOx emissions resulting from the use of off-road diesel-powered construction equipment and on-road haul trucks during construction, SCAQMD staff recommends that the Lead Agency incorporate the following mitigation measures in the Final MND.

a) Require the use of Tier 4 emissions standards or better for off-road diesel-powered construction equipment of 50 horsepower or greater. To ensure that Tier 4 construction equipment or better will be used during the Proposed Project's construction, SCAQMD staff recommends that the Lead Agency include this requirement in applicable bid documents, purchase orders, and contracts. Successful contractor(s) must demonstrate the ability to supply the compliant construction equipment for use prior to any ground disturbing and construction activities. A copy of each unit's certified tier specification or model year specification and California Air Resources Board (CARB) or SCAQMD operating

[1] MND. Page 3-11.
[2] MND. Table 3-3, *Project Construction Emissions of Criteria Pollutants (lb/day)*. Page 3-12.
[3] MND. Appendix C. *Air Quality CalEEMod Emission Results*. Pages 2-3.

permit (if applicable) shall be available upon request at the time of mobilization of each applicable unit of equipment. Additionally, the Lead Agency should require periodic reporting and provision of written construction documents by construction contractor(s) to ensure compliance, and conduct regular inspections to the maximum extent feasible to ensure compliance.

b) Require zero-emission or near-zero emission on-road haul trucks, if and when feasible. At a minimum, require that construction vendors, contractors, and/or haul truck operators commit to using 2010 model year or newer trucks (e.g., material delivery trucks and soil import/export). The Lead Agency should include this requirement in applicable bid documents, purchase orders, and contracts. Operators shall maintain records of all trucks associated with project construction to document that each truck used meets these emission standards, and make the records available for inspection. The Lead Agency should conduct regular inspections to the maximum extent feasible to ensure compliance.

c) Suspend all on-site construction activities when wind speeds (as instantaneous gusts) exceed 25 miles per hour.

d) All trucks hauling dirt, sand, soil or other loose materials are to be covered, or should maintain at least two feet of freeboard in accordance with California Vehicle Code Section 23114 (freeboard means vertical space between the top of the load and top of the trailer).

e) Enter into applicable bid documents, purchase orders, and contracts to notify all construction vendors, contractors, and/or haul truck operators that vehicle and construction equipment idling time will be limited to no longer than five minutes, consistent with the California Air Resources Board's policy[4]. For any idling that is expected to take longer than five minutes, the engine should be shut off. Notify construction vendors, contractors, and/or haul truck operators of these idling requirements at the time that the purchase order is issued and again when vehicles enter the Proposed Project site. To further ensure that drivers understand the vehicle idling requirement, post signs at the Proposed Project site, where appropriate, stating that idling longer than five minutes is not permitted.

Conclusion

Pursuant to CEQA Guidelines Section 15074, prior to approving the Proposed Project, the Lead Agency shall consider the MND for adoption together with any comments received during the public review process. Please provide SCAQMD staff with written responses to all comments contained herein prior to the adoption of the Final MND. When responding to issues raised in the comments, response should provide sufficient details giving reasons why specific comments and suggestions are not accepted. There should be good faith, reasoned analysis in response. Conclusory statements unsupported by factual information do not facilitate the purpose and goal of CEQA on public disclosure and are not meaningful or useful to decision makers and to the public who are interested in the Proposed Project.

SCAQMD staff is available to work with the Lead Agency to address these issues and any other questions that may arise. Please contact Robert Dalbeck, Assistant Air Quality Specialist, at (909) 396-2139, if you have any questions regarding these comments.

Sincerely,

Lijin Sun

Lijin Sun, J. D.
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

LS:RD
LAC181218-01
Control Number

[4] California Air Resources Board. June 2009. *Written Idling Policy Guidelines*. Accessed at: https://www.arb.ca.gov/msprog/ordiesel/guidance/writtenidlingguide.pdf.

Letter Number: 3
Date Received: January 9, 2019
Commenter/Agency: Lijin Sun, J.D., South Coast Air Quality Management District

Response to Comment 3-1

Mr. Sun with the SCAQMD provided a summary of the project description and noted that the proposed project's air quality impacts were found to be less than significant in the IS/MND. The daily maximum construction NOx emissions in 2019 would be 92 pounds per day (lbs/day) which is slightly below SCAQMD's regional air quality significance threshold for NOx (100lbs/day). Mr. Sun identified that based on the review of the CalEEMod output file the air quality modeling assumed the use of Tier 2 off-road construction equipment. While the impacts were found to be less than significant, the District recommended additional mitigation measures (a-e) in the IS/MND.

As identified in the SCAQMD comment letter, project air quality construction impacts were found to be less than significant. Per CEQA Guidelines Section 15126.4 (3), mitigation measures are not required for effects which are not found to be significant. Thereby, the recommended mitigation measures were not added to the Final IS/MND. However, the City will add these measures (a-e) into the applicable bid documents, purchase orders, and contracts.

Response to Comment 3-2

Mr. Sun notes CEQA Guidelines Section 15074 requirements, requests a written response, and identifies that SCAQMD staff are available if there are any issues or questions. The City will consider the complete environmental record including comments received during the public review process prior to making a decision on the proposed project. All written comments received during the public review period were responded to in writing and included in Appendix I of the Final IS/MND.

DEPARTMENT OF TRANSPORTATION
DISTRICT 7, OFFICE OF REGIONAL PLANNING
IGR/CEQA BRANCH
100 MAIN STREET, MS # 16
LOS ANGELES, CA 90012-3606
PHONE: (213) 897-6536
FAX: (213) 897-1337

Making Conservation a California Way of Life!

January 8, 2019

Lee Torres, P.E.
City of Culver City Public Works Department
9505 W. Jefferson Boulevard
Culver City, CA 90232

Re: **Culver Boulevard Realignment and Stormwater Treatment Project**
SCH# 2018121033
GTS# 07-LA-2018-02097TD-MND

Dear Lee Torres:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The proposed project includes the realignment of Culver Boulevard from Sepulveda Boulevard to Elenda Street and the construction of a subsurface stormwater and urban runoff treatment capture facility along Culver Boulevard.

Caltrans has reviewed the Mitigated Negative Declaration and does not expect project approval to result in a direct adverse impact to the existing State transportation facilities.

Please keep in mind, an encroachment permit will be required for any project work proposed on or near the Caltrans Right of Way and all environmental concerns must be adequately addressed. Furthermore, please note that traffic control and/or lane closures during construction that may impact I-405 need to be reviewed and approved by the Department of Transportation.

In the spirit of cooperation, Caltrans staff is available to work with your planners and traffic engineers for this project, if needed. If you have any questions regarding these comments, please contact project coordinator Mr. Todd Davis, at (213) 897-0067 and refer to GTS# 07-LA-2018-02097TD.

Sincerely,

MIYA EDMONSON
IGR/CEQA Branch Chief

cc: Scott Morgan, State Clearinghouse

Letter Number: 4
Date Received: January 9, 2019
Commenter/Agency: Miya Edmonson, California Department of Transportation

Response to Comment 4-1:

Comment that Caltrans has reviewed the MND and does not expect project approval to result in a direct adverse impact to the existing State transportation facilities. An encroachment permit would be needed for any project work on or near the Caltrans Right of Way and lane closures during construction that may impact I-405 need to be reviewed by the Department of Transportation. IS/MND Section 3.4.16, Transportation/Traffic, includes Mitigation Measure TRAF-1 that requires a traffic control plan shall be prepared that includes traffic control measures, haul routes, protocols for notifying emergency providers of temporary lane closures, and coordination with the Transportation Department for any temporary relocation of bus stops. No issues related to the adequacy of the IS/MND were raised; therefore, no further response is necessary.

THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Office of the General Manager

January 14, 2019

VIA EMAIL AND FEDERAL EXPRESS

Mr. Lee Torres
Senior Engineer
City of Culver City,
Environmental Programs and Operations Division
9505 Jefferson Boulevard
Culver City, CA 90232
Leonardo.TorresJr@culvercity.org

Dear Mr. Torres:

Notice of Intent to Adopt a Mitigated Negative Declaration
for the Culver Boulevard Realignment and Stormwater Treatment Project

The Metropolitan Water District of Southern California (Metropolitan) has reviewed the Notice of Intent to adopt a Mitigated Negative Declaration (MND) for the proposed Culver Boulevard Realignment and Stormwater Treatment Project (Project). The City of Culver City is acting as the Lead Agency under the California Quality Environmental Act (CEQA). The proposed project would continue the widening of Culver Boulevard including separating traffic between eastbound and westbound lanes with a median; and construct an underground urban and stormwater run-off treatment system that would divert capture and treat urban and stormwater run-off from two major storm drains intersecting at Sepulveda Blvd. and Harter Avenue.

Our review of the Notice indicates that Metropolitan owns and operates the Sepulveda Feeder Pipeline and facilities near the proposed project location. The enclosed map shows these facilities in relation to the proposed Project. Metropolitan is concerned with potential impacts to the Sepulveda Feeder and associated facilities that may result from the construction and implementation of the proposed Project. We request that the City of Culver City coordinate with Metropolitan, and ensure that Metropolitan's existing facilities that occur within the project's boundaries are not affected by the project. The Project must not impact Metropolitan's ability to access, operate and maintain existing facilities.

In order to avoid potential conflicts with Metropolitan's rights-of-way, we require that any design plans for any activity in the area of Metropolitan's pipelines or facilities by submitted for review and written approval. Detailed prints of drawings of Metropolitan's pipelines and rights-of-way may be obtained by calling Metropolitan's Substructures Information Line at (213) 217-7663. To assist in preparing plans that are compatible with Metropolitan's facilities, easements,

and properties, we have enclosed a copy of the "Guidelines for Developments in the Area of Facilities, Fee Properties, and/or easements of The Metropolitan Water District of Southern California." Please note that all submitted designs or plans must clearly identify Metropolitan's facilities and rights-of-way.

We appreciate the opportunity to provide input to your planning process and we look forward to further coordination on this Project. If you have any questions, please contact Mr. Sean Carlson at (213) 217-6276.

Very truly yours,

Sean Carlson
Team Manager, Environmental Planning Section

SAC:sac
SharePoint\NOI for MND Culver Blvd Realignment and Stormwater Treatment Project

Attachments:

(1) Substructures Guidelines
(2) Project Maps (2)

Guidelines for Improvements and Construction Projects Proposed in the Area of Metropolitan's Facilities and Rights-of-Way

July 2018

Prepared By:
The Metropolitan Water District of Southern California
Substructures Team, Engineering Services
700 North Alameda Street
Los Angeles, California 90012

Copyright © 2018 by The Metropolitan Water District of Southern California.

Additional Copies: To obtain a copy of this document, please contact the Engineering Services Group, Substructures Team.

Disclaimer

Metropolitan assumes no responsibility for the accuracy of the substructure information herein provided. The user assumes responsibility for verifying substructure locations before excavating and assumes all liability for damage to Metropolitan's facilities as a result of such excavation. Additionally, the user is cautioned to conduct surveys and other field investigations as deemed prudent, to assure that project plans are correct. The appropriate representative from Metropolitan must be contacted at least two working days, before any work activity in proximity to Metropolitan's facilities.

It generally takes 30 days to review project plans and provide written responses. Metropolitan reserves the right to modify requirements based on case-specific issues and regulatory developments.

PUBLICATION HISTORY:

Initial Release *July 2018*

Table of Contents

1.0 GENERAL INFORMATION 1
1.1 Introduction 1
1.2 Submittal and Review of Project Plans/Utilities and Maps 1
1.3 Identification of Metropolitan's Facilities and Rights-of-Way 3

2.0 General Requirements 3
2.1 Vehicular Access 3
2.2 Fences 3
2.3 Driveways and Ramps 3
2.4 Walks, Bike Paths, and Trails 3
2.5 Clear Zones 4
2.6 Slopes 4
2.7 Structures 4
2.8 Protection of Metropolitan Facilities 4
2.9 Potholing of Metropolitan Pipelines 4
2.10 Jacked Casings or Tunnels 4

3.0 Landscaping 5
3.1 Plans 5
3.2 Drought-Tolerant Native and California Friendly Plants 5
3.3 Trees 5
3.4 Other Vegetation 6
3.5 Irrigation 6
3.6 Metropolitan Vehicular Access 6

4.0 General Utilities 6
4.1 Utility Structures 6
4.2 Utility Crossings 6
4.3 Longitudinal Utilities 7
4.4 Underground Electrical Lines 7
4.5 Fiber Optic Lines 7
4.6 Overhead Electrical and Telephone Lines 7
4.7 Sewage Disposal Systems 7
4.8 Underground Tanks 8

5.0 Specific Utilities: Non-Potable Utility Pipelines 8

6.0 Cathodic Protection/Electrolysis Test Stations 8
6.1 Metropolitan Cathodic Protection 8
6.2 Review of Cathodic Protection Systems 8

7.0 Drainage 9
7.1 Drainage Changes Affecting Metropolitan Rights-of-Way 9
7.2 Metropolitan's Blowoff and Pumpwell Structures 9

8.0 Grading and Settlement 9

Table of Contents

8.1 Changes in Cover over Metropolitan Pipelines 9
8.2 Settlement 9

9.0 Construction Equipment 10
9.1 Review of Proposed Equipment 10
9.2 Equipment Restrictions 10
9.3 Vibratory Compaction Equipment 10
9.4 Equipment Descriptions 10

10.0 Excavations Close to Metropolitan Facilities 11
10.1 Shoring Design Submittal 11
10.2 Shoring Design Requirements 11

11.0 Support of Metropolitan Facilities 11
11.1 Support Design Submittal 11
11.2 Support Design Requirements 11

12.0 Backfill 12
12.1 Metropolitan Pipeline Not Supported 12
12.2 Metropolitan Pipeline Partially Exposed 12
12.3 Metropolitan Cut and Cover Conduit on Colorado River Aqueduct (CRA) 12

13.0 Piles 13
13.1 Impacts on Metropolitan Pipelines 13
13.2 Permanent Cast-in-place Piles 13

14.0 Protective Slabs for Road Crossings Over Metropolitan Pipelines 13

15.0 Blasting 13

16.0 Metropolitan Plan Review Costs, Construction Costs and Billing 14
16.1 Plan Review Costs 14
16.2 Cost of Modification of Facilities Performed by Metropolitan 14
16.3 Final Billing 14

17.0 Street Vacations and Reservation of Easements for Metropolitan 14

18.0 Metropolitan Land Use Guidelines 14

19.0 Compliance with Environmental Laws and Regulations 15

20.0 Paramount Rights / Metropolitan's Rights within Existing Rights-of-Way 17

21.0 Disclaimer and Information Accuracy 17

Table of Contents

Table 1: General Guidelines for Pipeline Separation between Metropolitan's Pipeline[1] and Sanitary Sewer[2] or Hazardous Fluid Pipeline[3] 18

Table 2: General Guidelines for Pipeline "Separation between Metropolitan's Pipeline[1] and Storm Drain and/or Recycled Water[2] 19

Table 3: General Guidelines for Pipeline "Separation[1] between Metropolitan's Pipeline and Recycled Water[2,4] Irrigationsm, ... 20

Figure 1: AASHTO H-20 Loading 21

Figure 2: Drawing SK-1 22

This page is intentionally blank.

1.0 GENERAL INFORMATION

Note: Underground Service Alert at 811 must be notified at least two working days before excavating in proximity to Metropolitan's facilities.

1.1 Introduction

These guidelines provide minimum design and construction requirements for any utilities, facilities, developments, and improvements, or any other projects or activities, proposed in or near Metropolitan Water District of Southern California (Metropolitan) facilities and rights-of-way. Additional conditions and stipulations may also be required depending on project and site specific conditions. Any adverse impacts to Metropolitan's conveyance system, as determined by Metropolitan, will need to be mitigated to its satisfaction.

All improvements and activities must be designed so as to allow for removal or relocation at builder or developer expense, as set forth in the paramount rights provisions of Section 20.0. Metropolitan shall not be responsible for repair or replacement of improvements, landscaping or vegetation in the event Metropolitan exercises its paramount rights powers.

1.2 Submittal and Review of Project Plans/Utilities and Maps

Metropolitan requires project plans/utilities be submitted for all proposed activities that may impact Metropolitan's facilities or rights-of-way. Project plans shall include copies of all pertinent utilities, sewer line, storm drain, street improvement, grading, site development, landscaping, irrigation and other plans, all tract and parcel maps, and all necessary state and federal environmental documentation. Metropolitan will review the project plans and provide written approval, as it pertains to Metropolitan's facilities and rights-of-way. Written approval from Metropolitan must be obtained, prior to the start of any activity or construction in the area of Metropolitan's facilities or rights-of-way. Once complete project plans and supporting documents are submitted to Metropolitan, it generally takes 30 days to review and to prepare a detailed written response. Complex engineering plans that have the potential for significant impacts on Metropolitan's facilities or rights-of-way may require a longer review time.

Project plans, maps, or any other information should be submitted to Metropolitan's Substructures Team at the following mailing address:

Attn: Substructures Team
The Metropolitan Water District of Southern California
700 North Alameda St.
Los Angeles, CA 90012

General Mailing Address: P.O. Box 54153
Los Angeles, CA 90054-0153

Email: EngineeringSubstructures@mwdh2o.com

For additional information, or to request prints of detailed drawings for Metropolitan's facilities and rights-of-way, please contact Metropolitan's Substructures Team at 213-217-7663 or EngineeringSubstructures@mwdh2o.com.

1.3 Identification of Metropolitan's Facilities and Rights-of-Way

Metropolitan's facilities and rights-of-way must be fully shown and identified as Metropolitan's, with official recording data, on the following:

A. All applicable plans

B. All applicable tract and parcel maps

Metropolitan's rights-of-ways and existing survey monuments must be tied dimensionally to the tract or parcel boundaries. Metropolitan's Records of Survey must be referenced on the tract and parcel maps with the appropriate Book and Page.

2.0 General Requirements

2.1 Vehicular Access

Metropolitan must have vehicular access along its rights-of-way at all times for routine inspection, patrolling, operations, and maintenance of its facilities and construction activities. All proposed improvements and activities must be designed so as to accommodate such vehicular access.

2.2 Fences

Fences installed across Metropolitan's rights-of-way must include a 16-foot-wide gate to accommodate vehicular access by Metropolitan. Additionally, gates may be required at other specified locations to prevent unauthorized entry into Metropolitan's rights-of-way.

All gates must accommodate a Metropolitan lock or Knox-Box with override switch to allow Metropolitan unrestricted access. There should be a minimum 20-foot setback for gates from the street at the driveway approach. The setback is necessary to allow Metropolitan vehicles to safely pull off the road prior to opening the gate.

2.3 Driveways and Ramps

Construction of 16-foot-wide commercial-type driveway approaches is required on both sides of all streets that cross Metropolitan's rights-of-way. Access ramps, if necessary, must be a minimum of 16 feet wide.

There should be a minimum 20-foot setback for gates from the street at the driveway approach. Grades of ramps and access roads must not exceed 10 percent; if the slope of an access ramp or road must exceed 10 percent due to topography, then the ramp or road must be paved.

2.4 Walks, Bike Paths, and Trails

All walkways, bike paths, and trails along Metropolitan's rights-of-way must be a minimum 12-foot wide and have a 50-foot or greater radius on all horizontal curves if also used as Metropolitan's access roads. Metropolitan's access routes, including all walks and drainage facilities crossing the access routes, must be constructed to American Association of State Highway and Transportation Officials (AASHTO) H-20 loading standards (see Figure 1). Additional requirements will be placed on equestrian trails to protect the water quality of Metropolitan's pipelines and facilities.

2.5 Clear Zones

A 20-foot-wide clear zone is required to be maintained around Metropolitan's manholes and other above-ground facilities to accommodate vehicular access and maintenance. The clear zone should slope away from Metropolitan's facilities on a grade not to exceed 2 percent.

2.6 Slopes

Cut or fill slopes proposed within Metropolitan's rights-of-way must not exceed 10 percent. The proposed grade must not worsen the existing condition. This restriction is required to facilitate Metropolitan use of construction and maintenance equipment and allow uninhibited access to above-ground and below-ground facilities.

2.7 Structures

Construction of structures of any type is not allowed within the limits of Metropolitan's rights-of-way to avoid interference with the operation and maintenance of Metropolitan's facilities and possible construction of future facilities.

Footings and roof eaves of any proposed buildings adjacent to Metropolitan's rights-of-way must meet the following criteria:

A. Footings and roof eaves must not encroach onto Metropolitan's rights-of-way.

B. Footings must not impose any additional loading on Metropolitan's facilities.

C. Roof eaves must not overhang onto Metropolitan's rights-of-way.

Detailed plans of footings and roof eaves adjacent to Metropolitan's rights-of-way must be submitted for Metropolitan's review and written approval, as pertains to Metropolitan's facilities.

2.8 Protection of Metropolitan Facilities

Metropolitan facilities within its rights-of-way, including pipelines, structures, manholes, survey monuments, etc., must be protected from damage by the project proponent or property owner, at no expense to Metropolitan. The exact location, description and method of protection must be shown on the project plans.

2.9 Potholing of Metropolitan Pipelines

Metropolitan's pipelines must be potholed in advance, if the vertical clearance between a proposed utility and Metropolitan's pipeline is indicated to be 4 feet or less. A Metropolitan representative must be present during the potholing operation and will assist in locating the pipeline. Notice is required, a minimum of three working days, prior to any potholing activity.

2.10 Jacked Casings or Tunnels

A. General Requirements

Utility crossings installed by jacking, or in a jacked casing or tunnel under/over a Metropolitan pipeline, must have at least 3 feet of vertical clearance between the outside diameter of the pipelines and the jacked pipe, casing, or tunnel. The actual

cover over Metropolitan's pipeline shall be determined by potholing, under Metropolitan's supervision.

Utilities installed in a jacked casing or tunnel must have the annular space between the utility and the jacked casing or tunnel filled with grout. Provisions must be made for grouting any voids around the exterior of the jacked pipe, casing, or tunnel.

B. Jacking or Tunneling Procedures

Detailed jacking, tunneling, or directional boring procedures must be submitted to Metropolitan for review and approval. The procedures must cover all aspects of operation, including, but not limited to, dewatering, ground control, alignment control, and grouting pressure. The submittal must also include procedures to be used to control sloughing, running, or wet ground, if encountered. A minimum 10-foot clearance must be maintained between the face of the tunneling or receiving pits and outside edges of Metropolitan's facility.

C. Shoring

Detailed drawings of shoring for jacking or receiving pits must be submitted to Metropolitan for review and written-approval. (See Section 10 for shoring requirements).

D. Temporary Support

Temporary support of Metropolitan's pipelines may be required when a utility crosses under a Metropolitan pipeline and is installed by means of an open trench. Plans for temporary support must be reviewed and approved in writing by Metropolitan. (See Section 11, Supports of Metropolitan Facilities).

3.0 Landscaping

3.1 Plans

All landscape plans must show the location and limits of Metropolitan's right-of-way and the location and size of Metropolitan's pipeline and related facilities therein. All landscaping and vegetation shall be subject to removal without notice, as may be required by Metropolitan for ongoing maintenance, access, repair, and construction activities. Metropolitan will not be financially responsible for the removal of any landscaping and vegetation.

3.2 Drought-Tolerant Native and California Friendly Plants

Metropolitan recommends use of drought-tolerant native and California Friendly® plants (excluding sensitive plants) on proposed projects. For more information regarding California Friendly® plants refer to www.bewaterwise.com.

3.3 Trees

Trees are generally prohibited within Metropolitan's rights-of-way as they restrict Metropolitan's ability to operate, maintain and/or install new pipeline(s) located within these rights-of-way. Metropolitan will not be financially responsible for the removal and replacement of any existing trees should they interfere with access and any current or future Metropolitan project located within the right-of-way.

3.4 Other Vegetation

Shrubs, bushes, vines, and groundcover are generally allowed within Metropolitan's rights-of-way. Larger shrubs are not allowed on Metropolitan fee properties; however, they may be allowed within its easements if planted no closer than 15 feet from the outside edges of existing or future Metropolitan facilities. Only groundcover is allowed to be planted directly over Metropolitan pipeline, turf blocks or similar is recommended to accommodate our utility vehicle access. Metropolitan will not be financially responsible for the removal and replacement of the vegetation should it interfere with access and any current or future Metropolitan project.

3.5 Irrigation

Irrigation systems are acceptable within Metropolitan's rights-of-way, provided valves and controllers are located near the edges of the right-of-way and do not interfere with Metropolitan vehicular access. A shutoff valve should also be located along the edge of the right-of-way that will allow the shutdown of the system within the right-of-way should Metropolitan need to do any excavation. No pooling or saturation of water above Metropolitan's pipeline and right-of-way is allowed. Additional restrictions apply to non-potable water such as Recycled Water and are covered on Table 3 of Page 20.

3.6 Metropolitan Vehicular Access

Landscape plans must show Metropolitan vehicular access to Metropolitan's facilities and rights-of-way and must be maintained by the property owner or manager or homeowners association at all times. Walkways, bike paths, and trails within Metropolitan's rights-of-way may be used as Metropolitan access routes. (See Section 2.4, Walks, Bike Paths, and Trails).

4.0 General Utilities

Note: For non-potable piping like sewer, hazardous fluid, storm drain, disinfected tertiary recycled water and recycled water irrigation see Table 1 through Table 3.

4.1 Utility Structures

Permanent utility structures (e.g., manholes, power poles, pull boxes, electrical vaults, etc.) are not allowed within Metropolitan's rights-of-way. Metropolitan requests that all permanent utility structures within public streets be placed as far from its pipelines and facilities as practical, but not closer than 5 feet from the outside edges of Metropolitan facilities.

Note: Non-potable utility pipelines are an exception to the 5-foot minimum clearance. Non-potable utility pipelines should have 10 feet of separation.

4.2 Utility Crossings

Metropolitan requests a minimum of 1 foot of vertical clearance between Metropolitan's pipeline and any utility crossing the pipeline. Utility lines crossing Metropolitan's pipelines must be as perpendicular to the pipeline as possible. Cross-section drawings, showing proposed locations and elevations of utility lines and locations of Metropolitan's pipelines and limits of rights-of-way, must be submitted with utility plans, for all

crossings. Metropolitan's pipeline must be potholed under Metropolitan's supervision at the crossings (See Section 2.9).

4.3 Longitudinal Utilities

Installation of longitudinal utilities is generally not allowed along Metropolitan's rights-of-way. Within public streets, Metropolitan requests that all utilities parallel to Metropolitan's pipelines and appurtenant structures (facilities) be located as far from the facilities as possible, with a minimum clearance of 5 feet from the outside edges of the pipeline.

Note: Non-potable utility pipelines are an exception to the 5-foot minimum clearance. Non-potable utility pipelines should have 10 feet of separation (for more information See Table 1 on Page 18).

4.4 Underground Electrical Lines

Underground electrical conduits (110 volts or greater) which cross a Metropolitan's pipeline must have a minimum of 1 foot of vertical clearance between Metropolitan's pipeline and the electrical lines. Longitudinal electrical lines, including pull boxes and vaults, in public streets should have a minimum separation of 5 feet from the edge of a Metropolitan pipeline or structures.

4.5 Fiber Optic Lines

Fiber optic lines installed by directional boring require a minimum of 3 feet of vertical clearance when boring is over Metropolitan's pipelines and a minimum of 5 feet of vertical clearance when boring is under Metropolitan's pipelines. Longitudinal fiber optic lines, including pull boxes, in public streets should have a minimum separation of 5 feet from the edge of a Metropolitan pipelines or structures. Potholing must be performed, under Metropolitan's supervision, to verify the vertical clearances are maintained.

4.6 Overhead Electrical and Telephone Lines

Overhead electrical and telephone lines, where they cross Metropolitan's rights-of-way, must have a minimum 35 feet of clearance, as measured from the ground to the lowest point of the overhead line. Overhead electrical lines poles must be located at least 30 feet laterally from the edges of Metropolitan's facilities or outside Metropolitan's right-of-way, whichever is greater.

Longitudinal overhead electrical and or telephone lines in public streets should have a minimum separation of 10 feet from the edge of a Metropolitan pipelines or structures where possible.

4.7 Sewage Disposal Systems

Sewage disposal systems, including leach lines and septic tanks, must be a minimum of 100 feet from the outside limits of Metropolitan's rights-of-way or the edge of its facilities, whichever is greater. If soil conditions are poor, or other adverse site-specific conditions exist, a minimum distance of 150 feet is required. They must also comply with local and state health code requirements as they relate to sewage disposal systems in proximity to major drinking water supply pipelines.

4.8 Underground Tanks

Underground tanks containing hazardous materials must be a minimum of 100 feet from the outside limits of Metropolitan's rights-of-way or edge of its facilities, whichever is greater. In addition, groundwater flow should be considered with the placement of underground tanks down-gradient of Metropolitan's facilities.

5.0 Specific Utilities: Non-Potable Utility Pipelines

In addition to Metropolitan's general requirements, installation of non-potable utility pipelines (e.g., storm drains, sewers, and hazardous fluids pipelines) in Metropolitan's rights-of-way and public street rights-of-way must also conform to the State Water Resources Control Board's Division of Drinking Water (DDW) regulation (Waterworks Standards) and guidance for separation of water mains and non-potable pipelines and to applicable local county health code requirements. Written approval is required from DDW for the implementation of alternatives to the Waterworks Standards and, effective December 14, 2017, requests for alternatives to the Waterworks Standards must include information consistent with: DDW's Waterworks Standards Main Separation Alternative Request Checklist.

In addition to the following general guidelines, further review of the proposed project must be evaluated by Metropolitan and requirements may vary based on site specific conditions.

A. Sanitary Sewer and Hazardous Fluids (General Guideline See Table 1 on Page 18)

B. Storm Drain and Recycled Water (General Guideline See Table 2 on Page 19)

C. Irrigation with Recycled Water (General Guideline See Table 3 on Page 20)

D. Metropolitan generally does not allow Irrigation with recycled water to be applied directly above its treated water pipelines

E. Metropolitan requests copies of project correspondence with regulating agencies (e.g., Regional Water Quality Control Board, DDW); regarding the application of recycled water for all projects located on Metropolitan's rights-of-way

6.0 Cathodic Protection/Electrolysis Test Stations

6.1 Metropolitan Cathodic Protection

Metropolitan's existing cathodic protection facilities in the vicinity of any proposed work must be identified prior to any grading or excavation. The exact location, description, and type of protection must be shown on all project plans. Please contact Metropolitan for the location of its cathodic protection stations.

6.2 Review of Cathodic Protection Systems

Metropolitan must review any proposed installation of impressed-current cathodic protection systems on pipelines crossing or paralleling Metropolitan's pipelines to determine any potential conflicts with Metropolitan's existing cathodic protection system.

7.0 Drainage

7.1 Drainage Changes Affecting Metropolitan Rights-of-Way

Changes to existing drainage that could affect Metropolitan's rights-of-way require Metropolitan's approval. The project proponent must provide acceptable solutions to ensure Metropolitan's rights-of-way are not negatively affected by changes in the drainage conditions. Plans showing the changes, with a copy of a supporting hydrology report and hydraulic calculations, must be submitted to Metropolitan for review and approval. Long term maintenance of any proposed drainage facilities must be the responsibility of the project proponent, City, County, homeowner's association, etc., with a clear understanding of where this responsibility lies. If drainage must be discharged across Metropolitan's rights-of-way, it must be carried across by closed conduit or lined open channel and must be shown on the plans.

7.2 Metropolitan's Blowoff and Pumpwell Structures

Any changes to the existing local watercourse systems will need to be designed to accommodate Metropolitan's blowoff and pumpwell structures, which periodically convey discharged water from Metropolitan's blowoff and pumping well structures during pipeline dewatering. The project proponents' plans should include details of how these discharges are accommodated within the proposed development and must be submitted to Metropolitan for review and approval. Any blowoff discharge lines impacted must be modified accordingly at the expense of the project proponent.

8.0 Grading and Settlement

8.1 Changes in Cover over Metropolitan Pipelines

The existing cover over Metropolitan's pipelines must be maintained unless Metropolitan determines that proposed changes in grade and cover do not pose a hazard to the integrity of the pipeline or an impediment to its maintenance capability. Load and settlement or rebound due to change in cover over a Metropolitan pipeline or ground in the area of Metropolitan's rights-of-way will be factors considered by Metropolitan during project review.

In general, the minimum cover over a Metropolitan pipeline is 4 feet and the maximum cover varies per different pipeline. Any changes to the existing grade may require that Metropolitan's pipeline be potholed under Metropolitan's supervision to verify the existing cover.

8.2 Settlement

Any changes to the existing topography in the area of Metropolitan's pipeline or right-of-way that result in significant settlement or lateral displacement of Metropolitan's pipelines are not acceptable. Metropolitan may require submittal of a soils report showing the predicted settlement of the pipeline at 10-foot intervals for review. The data must be carried past the point of zero change in each direction and the actual size and varying depth of the fill must be considered when determining the settlement. Possible settlement due to soil collapse, rebound and lateral displacement must also be included.

In general, the typical maximum allowed deflection for Metropolitan's pipelines must not exceed a deflection of 1/4-inch for every 100 feet of pipe length. Metropolitan may require additional information per its Geotechnical Guidelines. Please contact Metropolitan's Substructures Team for a copy of the Geotechnical Guidelines.

9.0 Construction Equipment

9.1 Review of Proposed Equipment

Use of equipment across or adjacent to Metropolitan's facilities is subject to prior review and written approval by Metropolitan. Excavation, backfill, and other work in the vicinity of Metropolitan's facilities must be performed only by methods and with equipment approved by Metropolitan. A list of all equipment to be used must be submitted to Metropolitan a minimum of 30 days before the start of work.

A. For equipment operating within paved public roadways, equipment that imposes loads not greater than that of an AASHTO H-20 vehicle (see Figure 1 on Page 21) may operate across or adjacent to Metropolitan's pipelines provided the equipment operates in non-vibratory mode and the road remains continuously paved.

B. For equipment operating within unpaved public roadways, when the total cover over Metropolitan's pipeline is 10 feet or greater, equipment imposing loads no greater than those imposed by an AASHTO H-20 vehicle may operate over or adjacent to the pipeline provided the equipment is operated in non-vibratory mode. For crossings, vehicle path shall be maintained in a smooth condition, with no breaks in grade for 3 vehicle lengths on each side of the pipeline.

9.2 Equipment Restrictions

In general, no equipment may be used closer than 20 feet from all Metropolitan above-ground structures. The area around the structures should be flagged to prevent equipment encroaching into this zone.

9.3 Vibratory Compaction Equipment

Vibratory compaction equipment may not be used in vibratory mode within 20 feet of the edge of Metropolitan's pipelines.

9.4 Equipment Descriptions

The following information/specifications for each piece of equipment should be included on the list:

A. A description of the equipment, including the type, manufacturer, model year, and model number. For example, wheel tractor-scraper, 1990 Caterpillar 627E.

B. The empty and loaded total weight and the corresponding weight distribution. If equipment will be used empty only, it should be clearly stated.

C. The wheel base (for each axle), tread width (for each axle), and tire footprint (width and length) or the track ground contact (width and length), and track gauge (center to center of track).

10.0 Excavations Close to Metropolitan Facilities

10.1 Shoring Design Submittal

Excavation that impacts Metropolitan's facilities requires that the contractor submit an engineered shoring design to Metropolitan for review and acceptance a minimum of 30 days before the scheduled start of excavation. Excavation may not begin until the shoring design is accepted in writing by Metropolitan.

Shoring design submittals must include all required trenches, pits, and tunnel or jacking operations and related calculations. Before starting the shoring design, the design engineer should consult with Metropolitan regarding Metropolitan's requirements, particularly as to any special procedures that may be required.

10.2 Shoring Design Requirements

Shoring design submittals must be stamped and signed by a California registered civil or structural engineer. The following requirements apply:

A. The submitted shoring must provide appropriate support for soil adjacent to and under Metropolitan's facilities.

B. Shoring submittals must include detailed procedures for the installation and removal of the shoring.

C. Design calculations must follow the Title 8, Chapter 4, Article 6 of the California Code of Regulations (CCR) guidelines. Accepted methods of analysis must be used.

D. Loads must be in accordance with the CCR guidelines or a soils report by a geotechnical consultant.

E. All members must be secured to prevent sliding, falling, or kickouts.

Metropolitan's pipelines must be located by potholing under Metropolitan's supervision before the beginning construction. Use of driven piles within 20 feet of the centerline of Metropolitan's pipeline is not allowed. Piles installed in drilled holes must have a minimum 2-foot clearance between Metropolitan's pipeline and the edge of the drilled hole, and a minimum of 1-foot clearance between any part of the shoring and Metropolitan's pipeline.

11.0 Support of Metropolitan Facilities

11.1 Support Design Submittal

If temporary support of a Metropolitan facility is required, the contractor shall submit a support design plan to Metropolitan for review and approval a minimum of 30 days before the scheduled start of work. Work may not begin until the support design is approved in writing by Metropolitan. Before starting design, the design engineer should consult with Metropolitan regarding Metropolitan's requirements.

11.2 Support Design Requirements

Support design submittals must be prepared, stamped, and signed by a California registered civil or structural engineer. The following requirements apply:

A. Support drawings must include detailed procedures for the installation and removal of the support system.

B. Design calculations must follow accepted practices, and accepted methods of analysis must be used.

C. Support designs must show uniform support of Metropolitan's facilities with minimal deflection.

D. The total weight of the facility must be transferred to the support system before supporting soil is fully excavated.

E. All members must be secured to prevent sliding, falling, or kickouts.

12.0 Backfill

12.1 Metropolitan Pipeline Not Supported

In areas where a portion of Metropolitan pipeline is not supported during construction, the backfill under and to an elevation of 6 inches above the top of the pipeline must be one-sack minimum cement sand slurry. To prevent adhesion of the slurry to Metropolitan's pipeline, a minimum 6-mil-thick layer of polyethylene sheeting or similar approved sheeting must be placed between the concrete support and the pipeline.

12.2 Metropolitan Pipeline Partially Exposed

In areas where a Metropolitan pipeline is partially exposed during construction, the backfill must be a minimum of 6 inches above the top of the pipeline with sand compacted to minimum 90 percent compaction.

12.3 Metropolitan Cut and Cover Conduit on Colorado River Aqueduct (CRA)

In areas where a Metropolitan cut and cover conduit is exposed, the following guidelines apply:

A. No vehicle or equipment shall operate over or cross the conduit when the cover is less than 3 feet.

B. Track-type dozer with a gross vehicle weight of 12,000 lbs or less may be used over the conduit when the cover is a minimum of 3 feet.

C. Wheeled vehicles with a gross vehicle weight of 8,000 lbs or less may operate over the conduit when the cover is a minimum of 4 feet.

D. Tracked dozer or wheeled vehicle should be used to push material over the conduit from the side.

E. Tracked dozer or wheeled vehicle should gradually increase cover on one side of the conduit and then cross the conduit and increase cover on the other side of the conduit. The cover should be increased on one side of the conduit until a maximum of 2 feet of fill has been placed. The cover over the conduit is not allowed to be more than 2 feet higher on one side of the conduit than on the other side.

F. The cover should be gradually increased over the conduit until the grade elevations have been restored.

13.0 Piles

13.1 Impacts on Metropolitan Pipelines

Pile support for structures could impose lateral, vertical and seismic loads on Metropolitan's pipelines. Since the installation of piles could also cause settlement of Metropolitan pipelines, a settlement and/or lateral deformation study may be required for pile installations within 50 feet of Metropolitan's pipelines. Metropolitan may require additional information per its Geo-technical Guidelines for pile installation. Please contact Metropolitan's Substructures Team for a copy of the Geotechnical Guidelines.

13.2 Permanent Cast-in-place Piles

Permanent cast-in-place piles must be constructed so that down drag forces of the pile do not act on Metropolitan's pipeline. The pile must be designed so that down drag forces are not developed from the ground surface to springline of Metropolitan's pipeline.

Permanent cast-in-place piles shall not be placed closer than 5 feet from the edge of Metropolitan's pipeline. Metropolitan may require additional information per its Geo-technical Guidelines for pile installation. Please contact Metropolitan's Substructures Team for a copy of the Geotechnical Guidelines.

14.0 Protective Slabs for Road Crossings Over Metropolitan Pipelines

Protective slabs must be permanent cast-in-place concrete protective slabs configured in accordance with Drawing SK-1 (See Figure 2 on Page 22).

The moments and shear for the protective slab may be derived from the American Association of State Highway and Transportation Officials (AASHTO). The following requirements apply:

A. The concrete must be designed to meet the requirements of AASHTO

B. Load and impact factors must be in accordance with AASHTO. Accepted methods of analysis must be used.

C. The protective slab design must be stamped and signed by a California registered civil or structural engineer and submitted to Metropolitan with supporting calculations for review and approval.

Existing protective slabs that need to be lengthened can be lengthened without modification, provided the cover and other loading have not been increased.

15.0 Blasting

At least 90 days prior to the start of any drilling for rock excavation blasting, or any blasting in the vicinity of Metropolitan's facilities, a site-specific blasting plan must be submitted to Metropolitan for review and approval. The plan must consist of, but not be limited to, hole diameters, timing sequences, explosive weights, peak particle velocities (PPV) at Metropolitan pipelines/structures, and their distances to blast locations. The PPV must be estimated based on a site-specific power law equation. The power law equation provides the peak particle velocity versus the scaled distance and must be calibrated based on measured values at the site.

16.0 Metropolitan Plan Review Costs, Construction Costs and Billing

16.1 Plan Review Costs

Metropolitan plan reviews requiring 8 labor hours or less are generally performed at no cost to the project proponent. Metropolitan plan reviews requiring more than 8 labor hours must be paid by the project proponent, unless the project proponent has superior rights at the project area. The plan review will include a written response detailing Metropolitan's comments, requirements, and/or approval.

A deposit of funds in the amount of the estimated cost and a signed letter agreement will be required from the project proponent before Metropolitan begins or continues a detailed engineering plan review that exceeds 8 labor hours.

16.2 Cost of Modification of Facilities Performed by Metropolitan

Cost of modification work conducted by Metropolitan will be borne by the project proponent, when Metropolitan has paramount/prior rights at the subject location.

Metropolitan will transmit a cost estimate for the modification work to be performed (when it has paramount/prior rights) and will require that a deposit, in the amount of the estimate, be received before the work will be performed.

16.3 Final Billing

Final billing will be based on the actual costs incurred, including engineering plan review, inspection, materials, construction, and administrative overhead charges calculated in accordance with Metropolitan's standard accounting practices. If the total cost is less than the deposit, a refund will be made; however, if the cost exceeds the deposit, an invoice for the additional amount will be forwarded for payment.

17.0 Street Vacations and Reservation of Easements for Metropolitan

A reservation of an easement is required when all or a portion of a public street where Metropolitan facilities are located is to be vacated. The easement must be equal to the street width being vacated or a minimum 40 feet. The reservation must identify Metropolitan as a "public entity" and not a "public utility," prior to recordation of the vacation or tract map. The reservation of an easement must be submitted to Metropolitan for review prior to final approval.

18.0 Metropolitan Land Use Guidelines

If you are interested in obtaining permission to use Metropolitan land (temporary or long term), a Land Use Form must be completed and submitted to Metropolitan for review and consideration. A nonrefundable processing fee is required to cover Metropolitan's costs for reviewing your request. Land Use Request Forms can be found at:

http://mwdh2o.com/PDF_Doing_Your_Business/4.7.1_Land_Use_Request_form_revised.pdf

The request should be emailed to RealEstateServices@mwdh2o.com,or contact the Real Property Development and Management (RPDM) Group at (213) 217-7750.

After the initial application form has been submitted, Metropolitan may require the following in order to process your request:

A. A map indicating the location(s) where access is needed, and the location & size (height, width and depth) of any invasive subsurface activity (boreholes, trenches, etc.).

B. The California Environmental Quality Act (CEQA) document(s) or studies that have been prepared for the project (e.g., initial study, notice of exemption, Environmental Impact Report (EIR), Mitigated Negative Declaration (MND), etc.).

C. A copy of an ACORD insurance certification naming Metropolitan as an additional insured, or a current copy of a statement of self-insurance.

D. Confirmation of the legal name of the person(s) or entity(ies) that are to be named as the permittee(s) in the entry permit.

E. Confirmation of the purpose of the land use.

F. The name of the person(s) with the authority to sign the documents and any specific signature title block requirements for that person or any other persons required to sign the document (i.e., legal counsel, Board Secretary/Clerk, etc.).

G. A description of any vehicles that will have access to the property. The exact make or model information is not necessary; however, the general vehicle type, expected maximum dimensions (height, length, width), and a specific maximum weight must be provided.

Land use applications and proposed use of the property must be compatible with Metropolitan's present and/or future use of the property. Any preliminary review of your request by Metropolitan shall not be construed as a promise to grant any property rights for the use of Metropolitan's property.

19.0 Compliance with Environmental Laws and Regulations

As a public agency, Metropolitan is required to comply with all applicable environmental laws and regulations related to the activities it carries out or approves. Consequently, project plans, maps, and other information must be reviewed to determine Metropolitan's obligations pursuant to state and federal environmental laws and regulations, including, but not limited to:

A. California Environmental Quality Act (CEQA) (Public Resources Code 21000-21177) and the State CEQA Guidelines (California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 1500-15387)

B. Federal Endangered Species Act (ESA) of 1973, 16 U.S.C. §§ 1531, et seq.

C. California Fish and Game Code Sections 2050-2069 (California ESA)

D. California Fish and Game Code Section 1602

E. California Fish and Game Code Sections 3511, 4700, 5050 and 5515 (California fully protected species)

F. Federal Migratory Bird Treaty Act (MBTA), 16 U.S.C. §§ 703-712

G. Federal Clean Water Act (including but not limited to Sections 404 and 401) 33 U.S.C. §§ 1342, 1344)

H. Porter Cologne Water Quality Control Act of 1969, California Water Code §§ 13000-14076.

I. Title 22, California Code of Regulations, Chapter 16 (California Waterworks Standards), Section 64572 (Water Main Separation)

Metropolitan may require the project applicant to pay for any environmental review, compliance and/or mitigation costs incurred to satisfy such legal obligations.

20.0 Paramount Rights / Metropolitan's Rights within Existing Rights-of-Way

Facilities constructed within Metropolitan's rights-of-way shall be subject to the paramount right of Metropolitan to use its rights-of-way for the purpose for which they were acquired. If at any time Metropolitan or its assigns should, in the exercise of their rights, find it necessary to remove or relocate any facilities from its rights-of-way, such removal and replacement or relocation shall be at the expense of the owner of the facility.

21.0 Disclaimer and Information Accuracy

Metropolitan assumes no responsibility for the accuracy of the substructure information herein provided. The user assumes responsibility for verifying substructure locations before excavating and assumes all liability for damage to Metropolitan's facilities as a result of such excavation. Additionally, the user is cautioned to conduct surveys and other field investigations as you may deem prudent, to assure that your project plans are correct. The relevant representative from Metropolitan must be called at least two working days, before any work activity in proximity to Metropolitan's facilities.

It generally takes 30 days to review project plans and provide written responses. Metropolitan reserves the right to modify requirements based on case-specific issues and regulatory developments.

Table 1: General Guidelines for Pipeline Separation between Metropolitan's Pipeline[1] and Sanitary Sewer[2] or Hazardous Fluid Pipeline[3]

Pipeline Crossings	Metropolitan requires that sanitary sewer and hazardous fluid pipelines that cross Metropolitan's pipelines have special pipe construction (no joints) **and** secondary containment[4]. This is required for the full width of Metropolitan's rights-of-way or within 10 feet tangent to the outer edges of Metropolitan's pipeline within public streets. Additionally, sanitary sewer and hazardous fluid pipelines crossing Metropolitan's pipelines must be perpendicular and maintain a minimum 1-foot vertical clearance between the top and the bottom of Metropolitan's pipeline and the pipe casing. These requirements apply to all sanitary sewer crossings regardless if the sanitary sewer main is located below or above Metropolitan's pipeline.
Parallel Pipeline	Metropolitan generally does not permit the installation of longitudinal pipelines along its rights-of-way. Within public streets, Metropolitan requires that all parallel sanitary sewer, hazardous fluid pipelines and/or non-potable utilities be located a minimum of 10 feet from the outside edges of Metropolitan's pipelines. When 10-foot horizontal separation criteria cannot be met, longitudinal pipelines require special pipe construction (no joints) **and** secondary containment[4].
Sewer Manhole	Sanitary sewer manholes are not allowed within Metropolitan's rights-of-way. Within public streets, Metropolitan requests manholes parallel to its pipeline be located a minimum of 10 feet from the outside edges of its pipelines. When 10 foot horizontal separation criteria cannot be met, the structure must have secondary containment[5].

Notes:

[1] *Separation distances are measured from the outer edges of each pipe.*

[2] *Sanitary sewer requirements apply to all recycled water treated to less than disinfected tertiary recycled water (disinfected secondary recycled water or less).* Recycled water definitions are included in Title 22, California Code of Regulations, Chapter 3 (Water Recycling Criteria), Section 60301.

[3] *Hazardous fluids include e.g., oil, fuels, chemicals, industrial wastes, wastewater sludge, etc.*

[4] *Secondary Containment for Pipeline - Secondary containment consists of a continuous pipeline sleeve (no joints). Examples acceptable to Metropolitan include welded steel pipe with grout in annular space and cathodic protection (unless coated with non-conductive material) and High Density Polyethylene (HDPE) pipe with fusion-welded joints.*

[5] *Secondary Containment for Structures – Secondary containment consists of external HDPE liner or other approved method.*

Table 2: General Guidelines for Pipeline Separation between Metropolitan's Pipeline[1] and Storm Drain and/or Disinfected Tertiary Recycled Water[2]

Pipeline Crossings	Metropolitan requires crossing pipelines to be special pipe construction (no joints) or have secondary containment[3] within 10-feet tangent to the outer edges of Metropolitan's pipeline. Additionally, pipelines crossing Metropolitan's pipelines must be perpendicular and maintain a minimum 1-foot vertical clearance.
Parallel Pipeline	Metropolitan generally does not permit the installation of longitudinal pipelines along its rights-of-way. Within public streets, Metropolitan requests that all parallel pipelines be located a minimum of 10 feet from the outside edges of Metropolitan's pipelines. When 10-foot horizontal separation criteria cannot be met, special pipe construction (no joints) or secondary containment[3] are required.
Storm Drain Manhole	Permanent utility structures (e.g., manhole. catch basin, inlets) are not allowed within Metropolitan's rights-of-way. Within public streets, Metropolitan requests all structures parallel to its pipeline be located a minimum of 10 feet from the outside edges of its pipelines. When 10 foot horizontal separation criteria cannot be met, the structure must have secondary containment[4].

Notes:

[1] *Separation distances are measured from the outer edges of each pipe.*

[2] *Disinfected tertiary recycled water as defined* in Title 22, California Code of Regulations, Chapter 3 (*Water Recycling Criteria*), Section 60301.

[3] *Secondary Containment for Pipeline - Secondary containment consists of a continuous pipeline sleeve (no joints). Examples acceptable to Metropolitan include welded steel pipe with grout in annular space and cathodic protection (unless coated with non-conductive material) and High Density Polyethylene (HDPE) pipe with fusion-welded joints.*

[4] *Secondary Containment for Structures – Secondary containment consists of external HDPE liner or other approved method.*

Table 3: General Guidelines for Pipeline Separation[1] between Metropolitan's Pipeline and Recycled Water[2,4] Irrigations

Pressurized recycled irrigation mainlines	• Crossings - must be perpendicular and maintain a minimum 1-foot vertical clearance. Crossing pressurized recycled irrigation mainlines must be special pipe construction (no joints) or have secondary containment[3] within 10-feet tangent to the outer edges of Metropolitan's pipeline. • Longitudinal - must maintain a minimum 10-foot horizontal separation and route along the perimeter of Metropolitan's rights-of-way where possible.
Intermittently Energized Recycled Water Irrigation System Components	• Crossings - must be perpendicular and maintain a minimum 1-foot vertical clearance. Crossing irrigation laterals within 5-feet tangent to the outer edges of Metropolitan's pipeline must be special pipe construction (no joints) or have secondary containment[3]. • Longitudinal – must maintain a minimum 5-foot horizontal separation between all intermittently energized recycled water irrigation system components (e.g. irrigation lateral lines, control valves, rotors) and the outer edges of Metropolitan's pipeline. Longitudinal irrigation laterals within 5-feet tangent to the outer edges of Metropolitan's pipeline must be special pipe construction (no joints) or have secondary containment[3].
Irrigation Structures	Irrigation structures such as meters, pumps, control valves, etc. must be located outside of Metropolitan's rights-of-way.
Irrigation spray rotors near Metropolitan's aboveground facilities	Irrigation spray rotors must be located a minimum of 20-foot from any Metropolitan above ground structures with the spray direction away from these structures. These rotors should be routinely maintained and adjusted as necessary to ensure no over-spray into 20-foot clear zones.
Irrigations near open canals and aqueducts	Irrigation with recycled water near open canals and aqueducts will require a setback distance to be determined based on site-specific conditions. Runoff of recycled water must be contained within an approved use area and not impact Metropolitan facilities. Appropriate setbacks must also be in place to prevent overspray of recycled water impacting Metropolitan's facilities.

Notes:

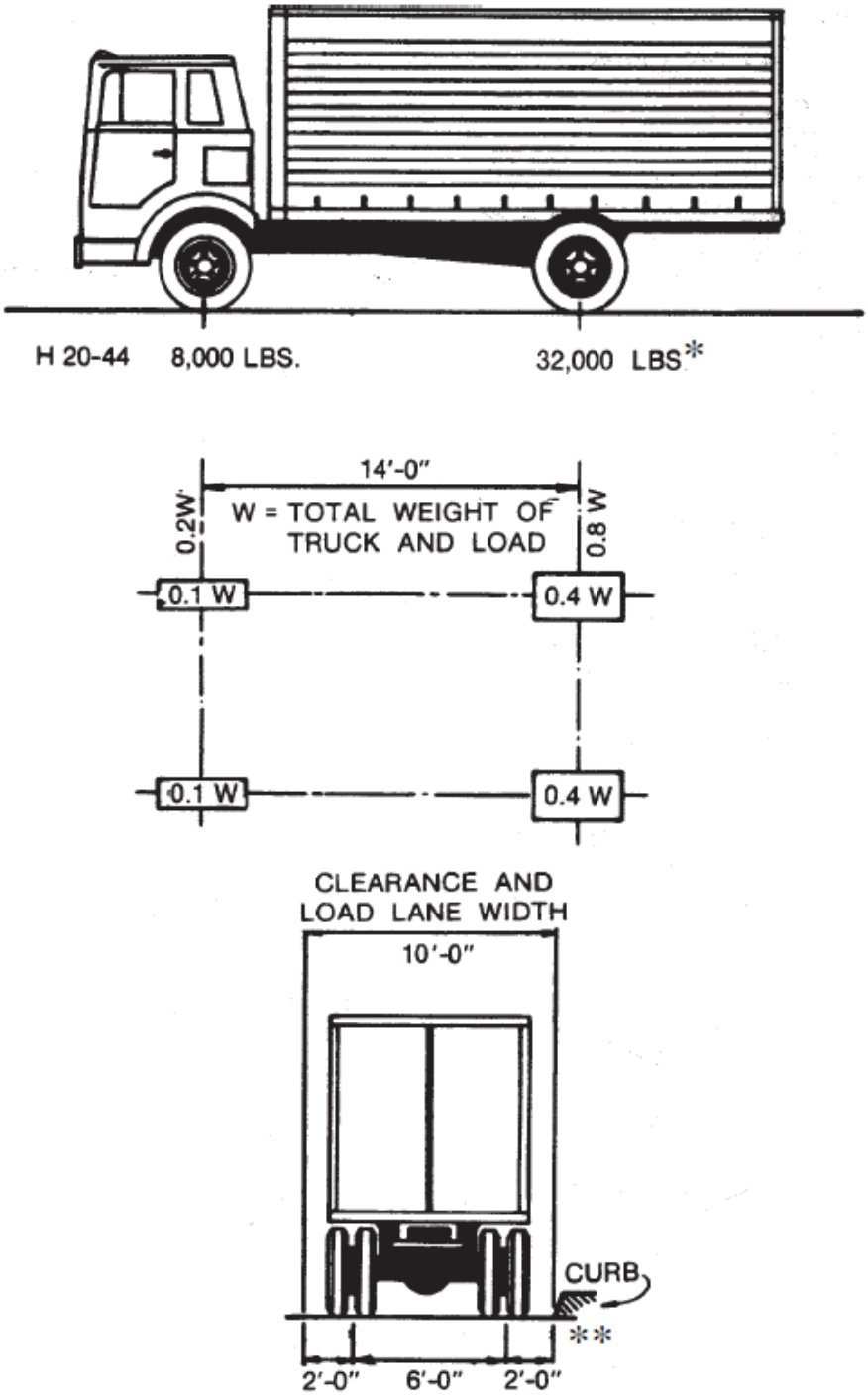
[1] *Separation distances are measured from the outer edges of each pipe.*

[2] *Requirements for recycled water irrigation apply to all levels of treatment of recycled water for non-potable uses.* Recycled water definitions are included in Title 22, California Code of Regulations, Chapter 3 (*Water Recycling Criteria*), Section 60301.

[3] *Secondary Containment for Pipeline - Secondary containment consists of a continuous pipeline sleeve (no joints). Examples acceptable to Metropolitan include welded steel pipe with grout in annular space and cathodic protection (unless coated with non-conductive material) and High Density Polyethylene (HDPE) pipe with fusion-welded joints.*

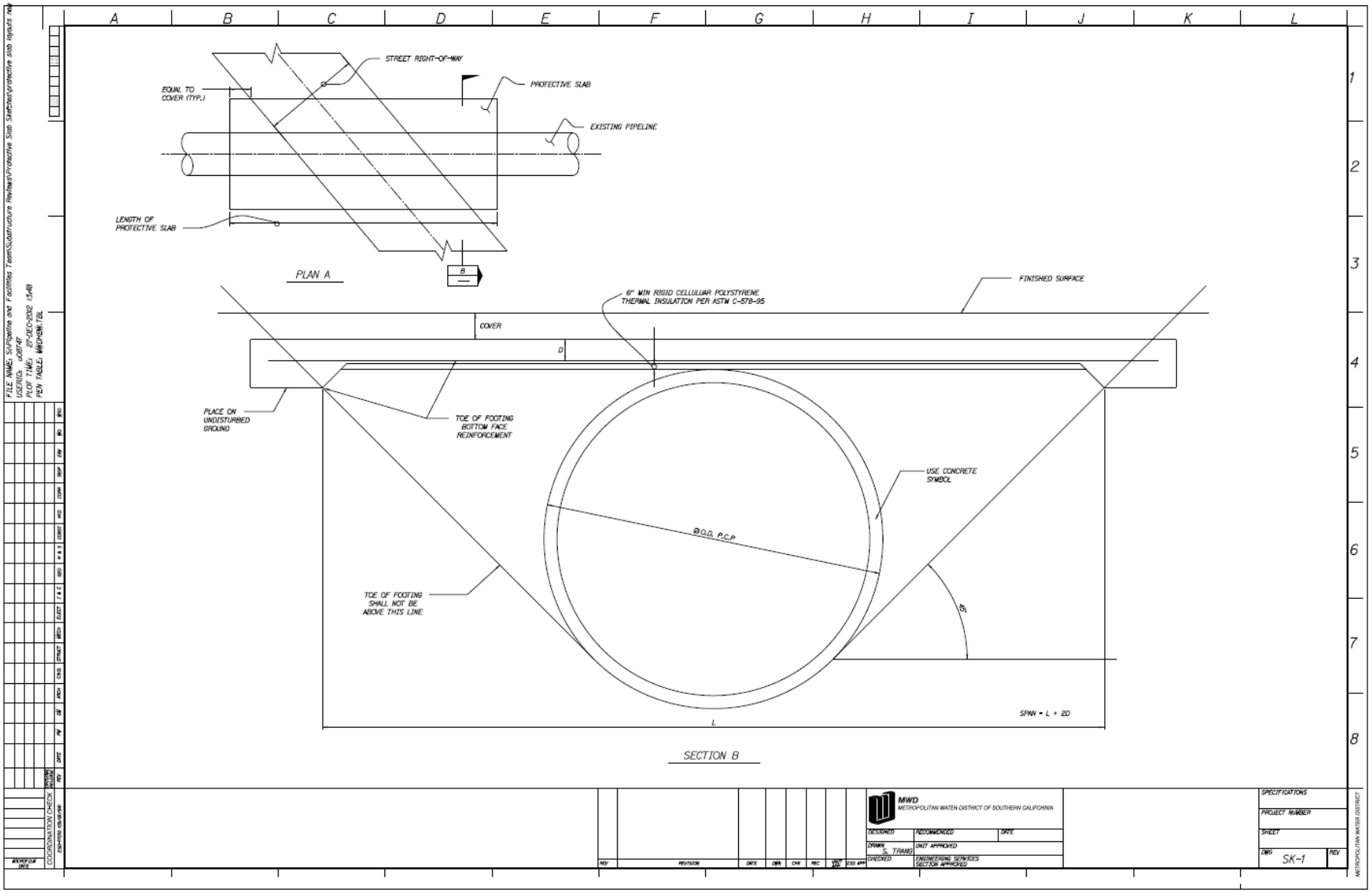
[4] *Irrigation with recycled water shall not be applied directly above Metropolitan's treated water pipelines.*

Figure 1: AASHTO H-20 Loading



Note: The H loadings consist of a two-axle truck or the corresponding lane loadings as illustrated above. The H loadings are designated "H" followed by a number indicating the gross weight in tons of the standard truck.

Figure 2: Drawing SK-1



J:\Projects\Sepulveda_Feeder\GIS\Culver_City_Stormwater_Treatment_Project.mxd [Printed 1/8/2019] Photography Date: Bing Prepared by: Ayk Unanyan (Geodetics & Mapping Team) Checked by: N/A Job#: GIS19-01-10

The Metropolitan Water District of Southern California
Engineering Services Group

Culver City Stormwater Treatment Project - Conceptual Layout Option 1

MWD Facilities - Sepulveda Feeder

Feet
0 87.5 175 350

J:\Projects\Sepulveda_Feeder\GIS\Culver_City_Stormwater_Treatment_Project.mxd [Printed 1/8/2019] Photography Date: Bing Prepared by: Ayk Unanyan (Geodetics & Mapping Team) Checked by: N/A Job#: GIS19-01-10

The Metropolitan Water District of Southern California
Engineering Services Group

Culver City Stormwater Treatment Project - Conceptual Layout Option 2

MWD Facilities - Sepulveda Feeder

Feet
0 87.5 175 350

Letter Number: 5
Date Received: January 14, 2019
Commenter/Agency: Sean Carlson, Metropolitan Water District of Southern California

Response to Comment 5-1:

Comment that Metropolitan owns and operates the Sepulveda Feeder Pipeline and facilities near the proposed project location. Metropolitan is concerned with the potential impacts to the Sepulveda Feeder and associated facilities that may result from the construction and implementation of the proposed project. The District requests that the City coordinate with Metropolitan and ensure that Metropolitan's existing facilities that occur within the project's boundaries are not affected (including District's ability to access, operate and maintain existing facilities) by the proposed project. In order to avoid potential conflicts with Metropolitan's right-of-way, they require that any design plans for any activity in the area of Metropolitan's pipelines or facilities be submitted for review and approval.

The City believes the construction and operation of the proposed project would not negatively impact the Sepulveda Feeder Pipeline and associated facilities and that the proposed project would not affect the District's ability to access, operate, and maintain the existing facilities within the proposed project limits. The design of the proposed project would provide for approximately 2-feet of vertical clearance between the bottom elevation of the proposed storm drain pipes and the top elevation of the Sepulveda Feeder Pipeline. A copy of the design concept is included in the IS/MND Appendix B, Culver Boulevard Stormwater Capture Project Preliminary Design Concept Report.

At the start of proposed project Culver Boulevard Stormwater Treatment component (May 2018), the City's engineering design team requested and received the following information from Metropolitan Water District of Southern California:

- *A letter confirming that Metropolitan's 94-inch-inside-diameter welded steel Sepulveda Feeder pipeline is located on Sepulveda Boulevard and crosses Culver Boulevard within the proposed project area.*
- *A copy of the District's "Guidelines for Developments in the Area of Facilities, Fee Properties, and/or Easements of the Metropolitan Water District of Southern California".*
- *Prints of As-Built Drawing B-54084 and Right-of-Way Map 1800-23 providing plan and profile information relating to the Sepulveda Feeder pipeline.*

The MWD letter provided at that time included the following requests and stipulations:

- *MWD facilities and right-of-way shall be fully shown and identified as Metropolitan's on the project plans.*
- *Due to water quality concerns, the stormwater system proposed within 10-feet from the edge of District pipeline shall include a secondary containment that consists of either continuous steel sleeve or HDPE pipe with fusion-welded joints.*
- *The project plans shall include a general note requiring the Contractor to notify Kevin Johansen of the MWD Water System Operations Group at least two working days prior to starting any work in the vicinity of MWD facilities.*
- *Additional correspondence with MWD relating to the project should be made through Ken Chung of the MWD Substructures Team.*

- *Prints of the preliminary plans be submitted for review and written approval as they pertain to MWD facilities, with all applicable portions of the District's guidelines incorporated into the plans.*

The information provided by MWD was used to guide applicable portions of the design. The City will continue to coordinate with MWD and will submit design plans for activity in the area of Metropolitan's pipelines or facilities for review and approval.

STATE OF CALIFORNIA

Governor's Office of Planning and Research

State Clearinghouse and Planning Unit

Gavin Newsom
Governor

January 14, 2019

Lee Torres
Culver City
9505 W. Jefferson Blvd
Culver City, CA 90232

Subject: Culver Boulevard Realignment and Stormwater Treatment Project
SCH#: 2018121033

Dear Lee Torres:

The State Clearinghouse submitted the above named Mitigated Negative Declaration to selected state agencies for review. On the enclosed Document Details Report please note that the Clearinghouse has listed the state agencies that reviewed your document. The review period closed on January 11, 2019, and the comments from the responding agency (ies) is (are) enclosed. If this comment package is not in order, please notify the State Clearinghouse immediately. Please refer to the project's ten-digit State Clearinghouse number in future correspondence so that we may respond promptly.

Please note that Section 21104(c) of the California Public Resources Code states that:

> "A responsible or other public agency shall only make substantive comments regarding those activities involved in a project which are within an area of expertise of the agency or which are required to be carried out or approved by the agency. Those comments shall be supported by specific documentation."

These comments are forwarded for use in preparing your final environmental document. Should you need more information or clarification of the enclosed comments, we recommend that you contact the commenting agency directly.

This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act. Please contact the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process.

Sincerely,

Scott Morgan
Director, State Clearinghouse

Enclosures
cc: Resources Agency

1400 TENTH STREET P.O. BOX 3044 SACRAMENTO, CALIFORNIA 95812-3044
TEL 1-916-445-0613 state.clearinghouse@opr.ca.gov www.opr.ca.gov

Document Details Report
State Clearinghouse Data Base

SCH# 2018121033
Project Title Culver Boulevard Realignment and Stormwater Treatment Project
Lead Agency Culver City

Type MND Mitigated Negative Declaration

Description The Culver Boulevard Realignment and Stormwater Treatment Project consists of two major components. The first major component is the Culver Boulevard Realignment from Sepulveda Boulevard to Elenda Street. The second component is the Culver Boulevard Stormwater Treatment feature, consisting of the construction of a subsurface stormwater and urban runoff treatment capture facility along Culver Boulevard beneath the existing median. New traffic signals are proposed at the intersections of Harter Ave and Huron Ave.

Lead Agency Contact

Name Lee Torres
Agency Culver City
Phone 310-253-6457 **Fax**
email
Address 9505 W. Jefferson Blvd
City Culver City **State** CA **Zip** 90232

Project Location

County Los Angeles
City Culver City
Region
Lat / Long 34° 00' 27.9" N / 118° 24' 26.9" W
Cross Streets Sepulveda Blvd and Elenda St
Parcel No. ROW-N/A
Township **Range** **Section** **Base**

Proximity to:

Highways 405, 187, 10, 90
Airports
Railways
Waterways Ballona Creek
Schools Various
Land Use transportation/transportation/OS

Project Issues Aesthetic/Visual; Agricultural Land; Air Quality; Archaeologic-Historic; Biological Resources; Cumulative Effects; Drainage/Absorption; Economics/Jobs; Flood Plain/Flooding; Forest Land/Fire Hazard; Geologic/Seismic; Growth Inducing; Landuse; Minerals; Noise; Population/Housing Balance; Public Services; Recreation/Parks; Schools/Universities; Septic System; Sewer Capacity; Soil Erosion/Compaction/Grading; Solid Waste; Toxic/Hazardous; Traffic/Circulation; Vegetation; Water Quality; Water Supply; Wetland/Riparian

Reviewing Agencies Resources Agency; Department of Fish and Wildlife, Region 5; Department of Parks and Recreation; Department of Water Resources; California Highway Patrol; Caltrans, District 7; Department of Toxic Substances Control; Regional Water Quality Control Board, Region 4; Native American Heritage Commission; State Water Resources Control Board, Division of Water Quality; State Water Resources Control Board, Division of Water Rights; Air Resources Board, Transportation Projects

Date Received 12/13/2018 **Start of Review** 12/13/2018 **End of Review** 01/11/2019

Note: Blanks in data fields result from insufficient information provided by lead agency.

DEPARTMENT OF TRANSPORTATION
DISTRICT 7, OFFICE OF REGIONAL PLANNING
IGR/CEQA BRANCH
100 MAIN STREET, MS # 16
LOS ANGELES, CA 90012-3606
PHONE: (213) 897-6536
FAX: (213) 897-1337

clear 1/11/19 E

Making Conservation a California Way of Life!

Governor's Office of Planning & Research
JAN 09 2019
STATE CLEARINGHOUSE

January 8, 2019

Lee Torres, P.E.
City of Culver City Public Works Department
9505 W. Jefferson Boulevard
Culver City, CA 90232

Re: **Culver Boulevard Realignment and Stormwater Treatment Project**
SCH# 2018121033
GTS# 07-LA-2018-02097TD-MND

Dear Lee Torres:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The proposed project includes the realignment of Culver Boulevard from Sepulveda Boulevard to Elenda Street and the construction of a subsurface stormwater and urban runoff treatment capture facility along Culver Boulevard.

Caltrans has reviewed the Mitigated Negative Declaration and does not expect project approval to result in a direct adverse impact to the existing State transportation facilities.

Please keep in mind, an encroachment permit will be required for any project work proposed on or near the Caltrans Right of Way and all environmental concerns must be adequately addressed. Furthermore, please note that traffic control and/or lane closures during construction that may impact I-405 need to be reviewed and approved by the Department of Transportation.

In the spirit of cooperation, Caltrans staff is available to work with your planners and traffic engineers for this project, if needed. If you have any questions regarding these comments, please contact project coordinator Mr. Todd Davis, at (213) 897-0067 and refer to GTS# 07-LA-2018-02097TD.

Sincerely,

MIYA EDMONSON
IGR/CEQA Branch Chief

cc: Scott Morgan, State Clearinghouse

SCH# 2018121033

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

mar
1/11/19
E

December 21, 2018

Governor's Office of Planning & Research

JAN 07 2019

STATE CLEARINGHOUSE

Lee Torres, P.E.
Environmental Programs
City of Culver City Public Works Department
9505 W. Jefferson Blvd.
Culver City, CA 90232

MITIGATED NEGATIVE DECLARATION FOR THE CULVER BOULEVARD REALIGNMENT AND STORMWATER TREATMENT PROJECT (PROJECT)

Dear Mr. Torres:

The Department of Toxic Substances Control (DTSC) has received your Notice of Intent to Adopt the Mitigated Negative Declaration for the above-mentioned project.

Based on the review of the document, the DTSC comments are as follows:

1) The document needs to identify and determine whether current or historic uses at the project site have resulted in any release of hazardous wastes/substances at the project area.

2) The document needs to identify any known or potentially contaminated site within the proposed project area. For all identified sites, the document needs to evaluate whether conditions at the site pose a threat to human health or the environment.

3) The document should identify the mechanism to initiate any required investigation and/or remediation for any site that may require remediation, and which government agency will provide appropriate regulatory oversight.

4) If during construction of the project, soil contamination is suspected, construction in the area should stop and appropriate health and safety procedures should be implemented. If it is determined that contaminated soil exists, the document should identify how any required investigation or remediation will be conducted, and which government agency will provide appropriate regulatory oversight.

DTSC provides guidance for Preliminary Endangerment Assessment (PEA) preparation, and cleanup oversight through the Voluntary Cleanup Program (VCP). For additional information on the VCP, please visit DTSC's web site at www.dtsc.ca.gov. If you would like to meet and discuss this matter further, please contact me at (818) 717-6555 or Pete.Cooke@dtsc.ca.gov.

Sincerely,

Pete Cooke
Site Mitigation and Restoration Program - Chatsworth Office

cc: Governor's Office of Planning and Research
State Clearinghouse
P.O. Box 3044
Sacramento, California 95812-3044

Dave Kereazis
Hazardous Waste Management Program, Permitting Division
CEQA Tracking
Department of Toxic Substances Control
P.O. Box 806
Sacramento, California 95812-0806

STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit

Edmund G. Brown Jr.
Governor

Ken Alex
Director

November 26, 2018

TO: CEQA LEAD AND REVIEWING AGENCIES

RE: ANNOUNCEMENT OF CHANGE, NEW CEQA DATABASE

The **Office of Planning and Research, State Clearinghouse (SCH)** is preparing the transition to a new CEQA database. We would like to inform you that our office will be transitioning from providing hard copies of certain letters and notices to an electronic mail system. Copies of environmental documents, notices and comment letters from state agencies will also be available for view and download.

CEQA lead and reviewing agencies should include an e-mail address (at least one (1)) to receive electronic notifications.

The letters and notifications from the SCH that will now be e-mailed include: acknowledgement of receipt and close of environmental documents, comments received from state reviewing agencies on environmental documents, as well as notices of determinations and exemptions.

Updates on when the database will be accessible for lead agencies to upload and submit environmental documents and notices, along with the ability for state agencies to review and comment on environmental documents through the database, will be provided as those functions become available.

For this transition process, please send your e-mail address to:

State.clearinghouse@opr.ca.gov

Should you have any questions, please do not hesitate in contacting the State Clearinghouse at (916) 445-0613 or state.clearinghouse@opr.ca.gov .

1400 TENTH STREET P.O. BOX 3044 SACRAMENTO, CALIFORNIA 95812-3044
TEL (916) 445-0613 FAX (916) 323-3018 www.opr.ca.gov

Letter Number: 6
Date Received: January 22, 2019
Commenter/Agency: Lee Torres, Governor's Office of Planning and Research, State Clearinghouse and Planning Unit

Response to Comment 6-1:

General comment that the City has complied with the State Clearinghouse requirements for draft environmental documents pursuant to the CEQA, provided the State Clearinghouse Number (SCH) for the project (SCH# 2018121033), and provided additional copies of Letter 2 and 4, and Announcement of Change for a New CEQA Database. Response to comments for Letters 2 and 4 are provided above. No issues related to the adequacy of the IS/MND were raised; therefore, no further response is necessary.

J MITIGATION MONITORING AND REPORTING PROGRAM

MITIGATION MONITORING AND REPORTING PROGRAM:
CULVER BOULEVARD REALIGNMENT AND STORMWATER TREATMENT PROJECT
CULVER CITY, CA

Mitigation Measure	Requirements of Measure	Time Frame	Responsible Party	Completed	Initials and Date	Notes/Comments
Air Quality						
AES-2	Implementing agencies shall develop BMP maintenance plans that are approved concurrently with each structural BMP approval. The maintenance plans must include measures to ensure functionality of the structural BMPs for the life of the BMP. These plans may include general maintenance guidelines that apply to a number of smaller distributed BMPs."	Prior to Construction	City of Culver City			
AIR-4	During planning of structural BMPs, implementing agencies shall assess the potential for nuisance odors to affect a substantial number of people. BMPs that minimize odors shall be considered the priority when in close proximity to sensitive receptors."	Prior to Construction	City of Culver City			
Biological Resources						
BIO-1	A preconstruction nesting bird survey shall be conducted by a qualified biologist prior to tree removal, the use of heavy machinery, or significant ground disturbance if activities are to be conducted within the bird nesting season (February 15 – September	Prior to Construction/ During Construction	City of Culver City			

	15). The survey shall be required within 72 hours prior to the commencement of construction activities if they occur in the bird nesting season. If construction activity as defined above halts for a period of 7 days or more, the survey will be considered invalid and need to be conducted again prior to the continuation of construction activities. If birds are found to be actively nesting within the project site or within 250 feet of the work area, an appropriate exclusionary buffer around the active nest shall be established by the qualified biologist. The buffer distance will be determined based on the nesting species. No construction activities would be allowed within the buffer until the birds have fledged from the nest. Active nests and buffers would be monitored by a qualified biologist to determine if active nests are being adversely affected by project activities.					
Cultural Resources						
CR-1	**Corbel/Architectural Relics Removal and Relocation** — A qualified architectural historian (retained by the City) or qualified Project archaeologist (see CR-2) will be present during the removal	Prior to Construction	City of Culver City			

	and final relocation/placement of the corbel and architectural relics to ensure all information related to this activity will be documented for historic recordation (e.g. document, photograph, and map each corbel/architectural relics prior to removal, during removal, and after final relocation). The quailed architectural historian/Project archaeologist will coordinate with the City to develop a plan to ensure the corbels/architectural relics are properly documented, removed, stored, and relocated. This coordination will occur prior to the beginning of construction and removal of the corbels.					
CR-2	**Archaeological Monitoring Plan and Monitoring—** A qualified archaeological monitor will be present on-site during ground disturbing activities that occur within native soils. An archaeological monitoring and inadvertent discovery plan that outlines protocols and procedures for monitoring and the discovery of cultural resources will be developed by the qualified Project Archaeologist (retained by the City). The plan will include monitoring procedures and	Prior to Construction, During Construction	City of Culver City			

	inadvertent discovery procedures (e.g. halt work within a 100 radius of find, delineate and protect resource, notification protocols and contact information, assessment of such finds, reporting, etc.). The plan will be developed in coordination and consultation with interested tribes (see Tribal Resources). As part of this mitigation measure, prior to any ground disturbing activities within the Project site, all Project personnel will be briefed by the qualified archaeologist (about the duties of the archaeological monitor and the potential and procedures for the inadvertent discovery of prehistoric and historic archaeological resources). The training will include procedures for temporarily halting or redirecting work in the event of a discovery, identification and evaluation procedures, and a discussion on the importance of, and the legal basis for, the protection of archaeological resources. Personnel will also be provided with a handout regarding identification of cultural resources, protocols for reporting finds, and contacts. The qualified archaeologist will be retrained, and the archaeological					

	monitoring and inadvertent discovery plan will be completed prior to any ground disturbing construction (including grading) of the Project site. As requested by interested Tribes, a Native American Monitor will also be present during construction ground disturbing activities (see Tribal Resources – TR-1).					
CR-3	**Paleontological Monitoring Plan and Monitoring** — A qualified paleontological monitor will be present on-site during ground disturbing activities below the initial grade for potential fossil remains. Full time monitoring of the storm water infiltration and retention system excavation is required. A paleontological monitoring and inadvertent discovery plan that outlines paleontological protocols and procedures will be developed by the qualified Project Paleontologist (retained by the City). The monitoring plan will meet the standards of Society for Vertebrate Paleontology and will outline procedures for paleontological monitoring and inadvertent discovery of paleontological remains (e.g. halt work procedures,	Prior to Construction, During Construction	City of Culver City			

	sampling, recordation, reporting, etc.). The qualified paleontologist will be retrained, and the paleontological monitoring plan will be completed prior to any ground disturbing construction (including grading) of the Project site.					
Geology and Soils						
GEO-1	Mitigation measures for the expansive soils identified at the project site in the 2015 GI report shall be developed in accordance with the 2016 California Building Code and the City of Culver City Municipal Code.	Prior to Construction	City of Culver City			
Noise						
N-1	The project applicant shall require construction contractors to limit standard construction activities as follows: • Equipment and trucks used for project construction shall utilize the best available noise control techniques (e.g., improved mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures and acoustically-attenuating shields or shrouds, wherever feasible).	During Construction	City of Culver City			

	• Stationary noise sources shall be located as far from adjacent receptors as possible and shall be muffled and enclosed within temporary sheds, incorporate insulation barriers or other measures to the extent feasible. • If needed impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for project construction shall be hydraulically or electrically powered wherever possible to avoid noise associated with compressed air exhaust from pneumatically-powered tools. However, where use of pneumatically powered tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used; this muffler can lower noise levels from the exhaust by up to about 10 dBA. External jackets on the tools themselves shall be used where feasible, and this could					

	achieve a reduction of 5 dBA. Quieter procedures shall be used such as drilling rather that impact equipment whenever feasible. • Electrically-powered equipment will be used instead of pneumatic or internal combustion powered equipment, where feasible. • Material stockpiles and mobile equipment staging, parking, and maintenance areas will be located as far as practicable from noise-sensitive receptors. The use of noise-producing signals, including horns, whistles, alarms, and bells, will be for safety warning purposes only.					
Transportation/Traffic						
TRAF-1	A traffic control plan shall be prepared that includes traffic control measures, haul routes, protocols for notifying emergency providers of temporary lane closures, and coordination with the Transportation Department for any temporary relocation of bus stops.	Prior to Construction	City of Culver City			
Tribal and Cultural Resources						

TR-1	Retain a Native American Monitor/Consultant: The Project Applicant shall be required to retain and compensate for the services of a Tribal monitor/consultant who is both approved by the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government and is listed under the NAHC's Tribal Contact list for the area of the project location. This list is provided by the NAHC. The monitor/consultant will only be present on-site during the construction phases that involve ground disturbing activities that have the potential to impact tribal cultural resources within the project area. The locations and types of ground disturbing activities to be monitored will be discussed and defined prior to the start of construction activities by mutual agreement with the Project Applicant and the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government The Tribal Monitor/consultant will complete daily monitoring logs that will provide descriptions of the day's activities, including construction activities, locations, soil, and any cultural materials identified. The	During Construction	City of Culver City			

	on-site monitoring shall end when the project site grading and excavation activities are completed, or when the Tribal Representatives and monitor/consultant have indicated that the site has a low potential for impacting Tribal Cultural Resources.					
TR-2	Unanticipated Discovery of Tribal Cultural and Archaeological Resources: Upon discovery of any archaeological resources, cease construction activities in the immediate vicinity of the find until the find can be assessed. All archaeological resources unearthed by project construction activities shall be evaluated by the qualified archaeologist and tribal monitor/consultant approved by the Gabrieleño Band of Mission Indians-Kizh Nation. If the resources are Native American in origin, the Gabrieleño Band of Mission Indians-Kizh Nation shall coordinate with the landowner regarding treatment and curation of these resources. Typically, the Tribe will request reburial or preservation for educational purposes. Work may continue on other parts of the project while evaluation and, if necessary, mitigation takes place (CEQA	During Construction	City of Culver City			

	Guidelines Section15064.5 [f]). If a resource is determined by the qualified archaeologist to constitute a "historical resource" or "unique archaeological resource", time allotment and funding sufficient to allow for implementation of avoidance measures, or appropriate mitigation, must be available. The treatment plan established for the resources shall be in accordance with CEQA Guidelines Section 15064.5(f) for historical resources.					
TR-3	Public Resources Code Sections 21083.2(b) for unique archaeological resources. Preservation in place (i.e., avoidance) is the preferred manner of treatment. If preservation in place is not feasible, treatment may include implementation of archaeological data recovery excavations to remove the resource along with subsequent laboratory processing and analysis. Any historic archaeological material that is not Native American in origin shall be curated at a public, non-profit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution	During Construction	City of Culver City			

	agrees to accept the material. If no institution accepts the archaeological material, they shall be offered to a local school or historical society in the area for educational purposes.					