

# CULVER CITY CITYWIDE STORMWATER CAPTURE

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## UTILITY COMPANY CONTACTS

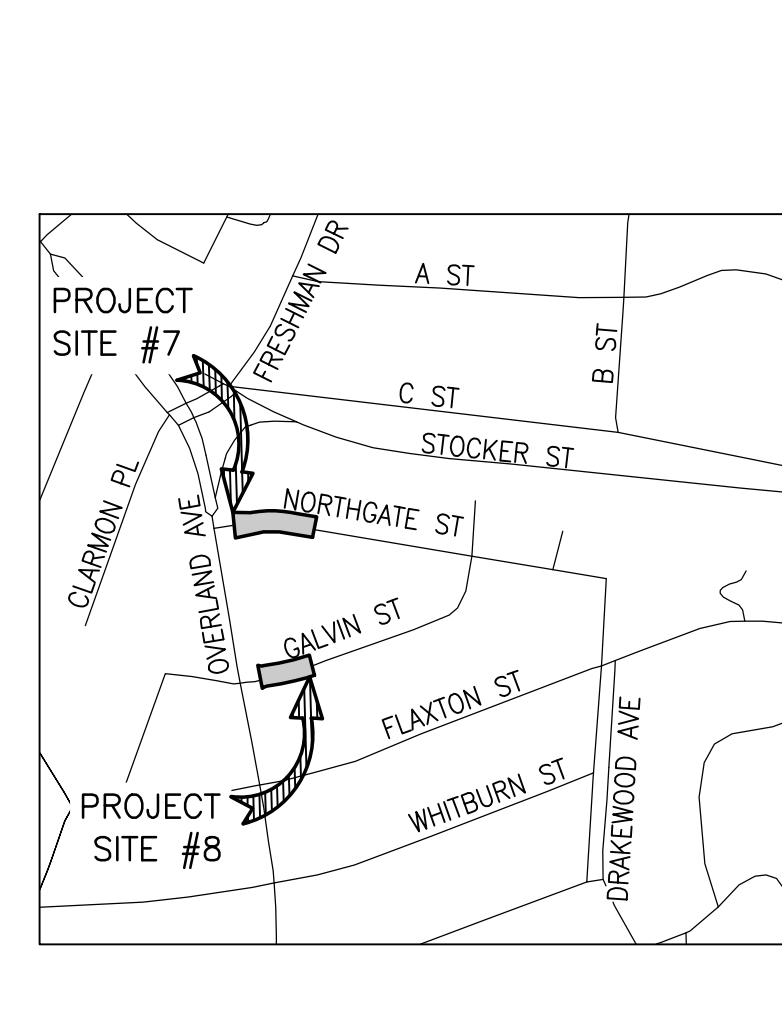
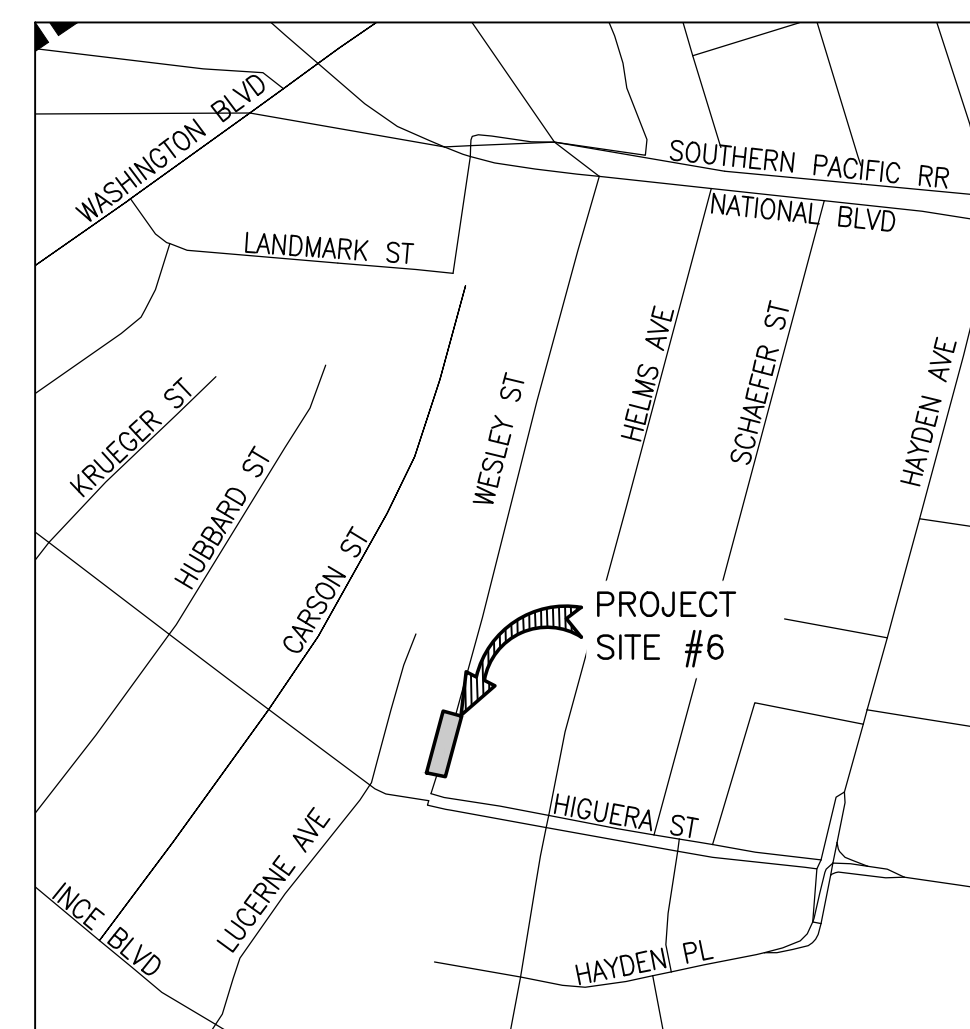
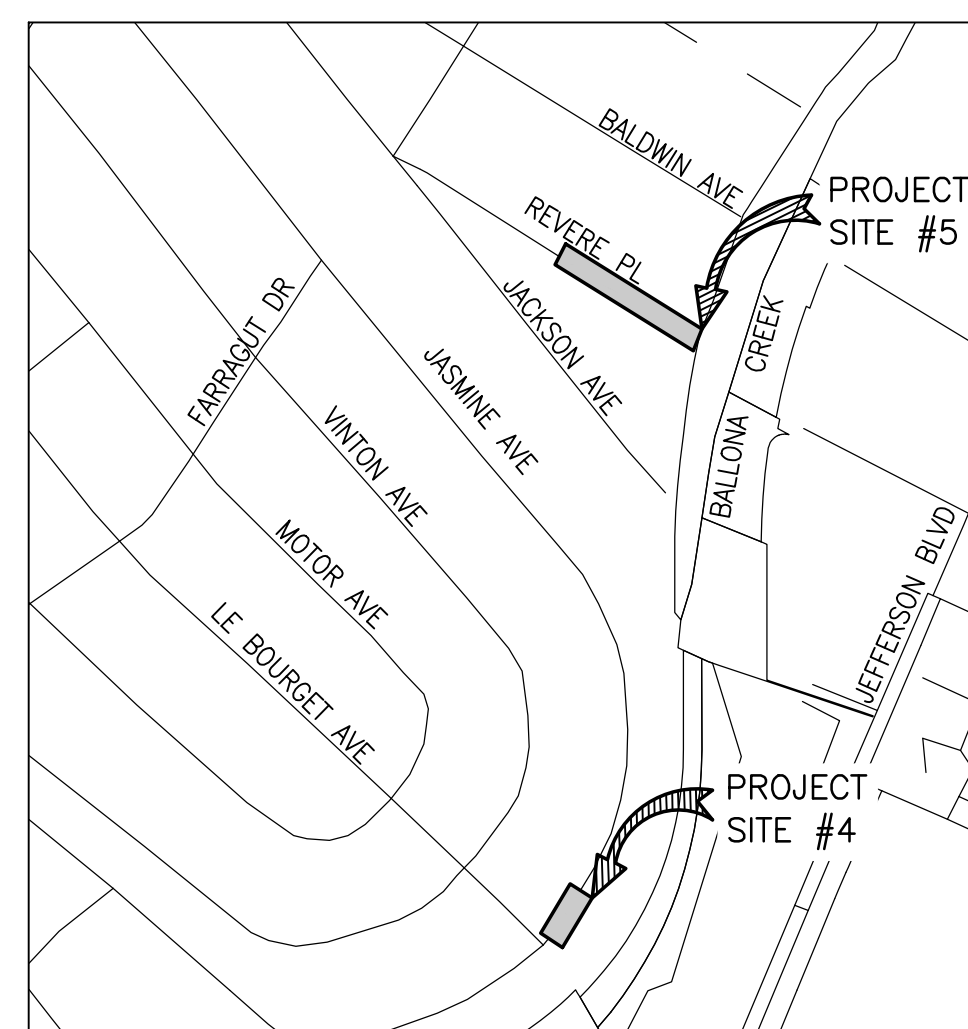
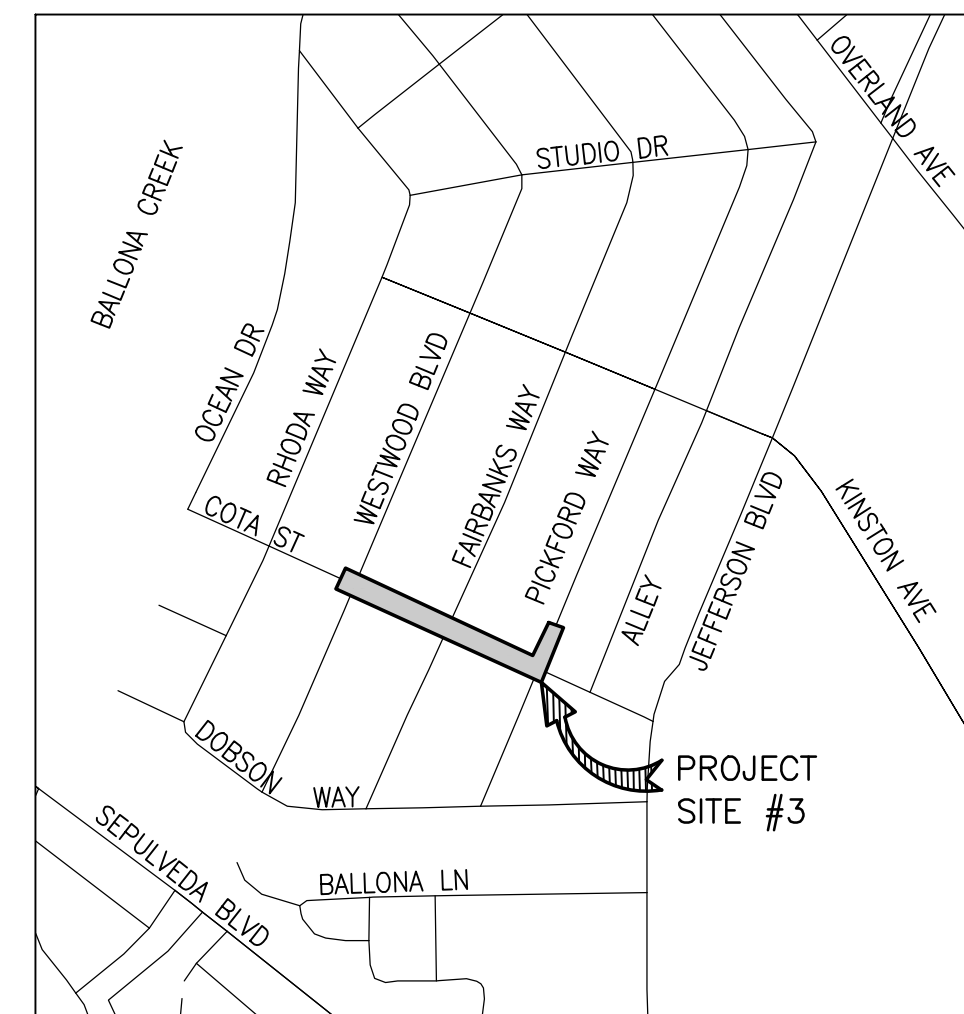
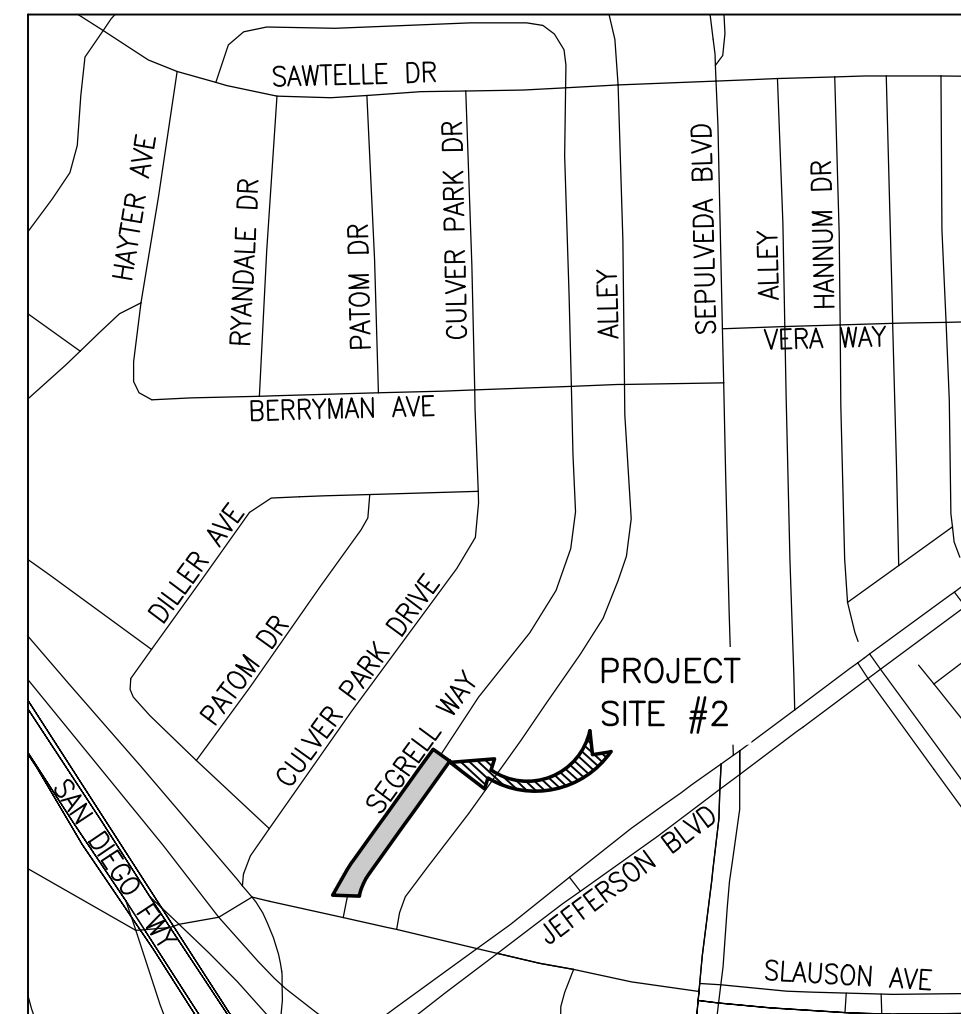
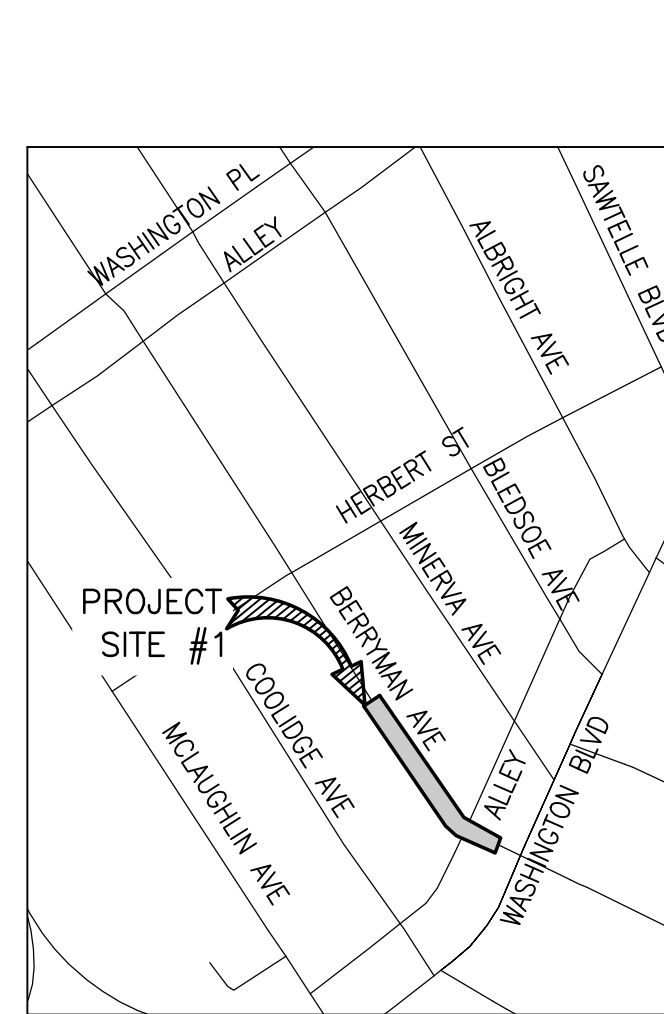
COMPANY	CONTACT	PHONE NO.
AT&T DISTRIBUTION	RICK RODRIGUEZ	(510) 645-2929
CHARTER	AL RUIZ	(951) 406-1601
CITY OF CULVER CITY	YANNI DEMITRI	(310) 253-5600
CRIMSON PIPELINE	DAN COBUM	(562) 355-7259
CROWN CASTLE	DAVID ANTOL	(724) 416-2180
FRONTIER	CATHY BROWN	(310) 264-5100
LADWP	EVERETT BURNETT	(213) 367-2659
LA SANITATION	RACHEL BASS	(310) 575-8612
SOUTHERN CALIFORNIA EDISON	KIM GURULE	(714) 796-9932
SOUTHERN CALIFORNIA EDISON - TELECOMM	AUSTIN STEPHENS	(714) 737-7296
SOUTHERN CALIFORNIA GAS COMPANY - DISTRIBUTION	JASUN SUM	(310) 687-2011
SOUTHERN CALIFORNIA GAS COMPANY - TRANSMISSION		(818)-701-4546
METROPOLITAN WATER DISTRICT	SUBSTRUCTURE TEAM	(213) 217-4663
SPECTRUM / CHARTER	ABRAHAM RODRIGUEZ	(951)-406-1601
TING FIBER	JEREMY LUYMES	(416)-535-0123
TORRANCE LOGISTICS	ADRIAN SIMON	(310)-625-3886
GOLDEN STATE WATER	RAY BURK	(562)-907-9200
MCI / VERIZON	DESIGN	(800)-624-9675
LUMEN COMMUNICATIONS	AREA REPRESENTATIVE	(877)-366-8344
SHELL OIL NORTH	ALEX GARCIA	(310)-816-2024

## ENGINEER'S NOTICE TO CONTRACTOR

THE ESTIMATED QUANTITY FOR EACH SPECIFIC ITEM OF THE WORK DESIGNATED ON THE PLANS SHALL BE CONSIDERED AS APPROXIMATE ONLY AND NO GUARANTEE IS MADE THAT THE QUANTITIES WHICH CAN BE DETERMINED BY COMPUTATIONS, BASED ON THE DETAILS AND DIMENSIONS SHOWN ON THESE PLANS, WILL EQUAL THE ESTIMATED QUANTITIES. THE ESTIMATE OF QUANTITIES IS PROVIDED BY THE ENGINEER ONLY FOR THE CONVENIENCE OF THE CITY. ANY ITEM OF WORK, OR PORTION THEREOF, REQUIRED BY THESE PLANS WHICH IS NOT SPECIFICALLY LISTED IN THE ESTIMATE OF QUANTITIES SHALL BE CONSIDERED AS INCLUDED IN THE OTHER ITEMS OF WORK.

## VERTICAL DATUM

NORTH AMERICAN VERTICAL DATUM OF 1988.



## ABBREVIATIONS

AC	ASPHALT CONCRETE	LACFCD	LOS ANGELES COUNTY FLOOD CONTROL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LF	LINEAR FEET
BC	BEGINNING OF CURVE	MH	MANHOLE
BCR	BEGINNING OF CURB RETURN	OC	ON CENTER
BM	BENCH MARK	PCC	PORTLAND CEMENT CONCRETE
CAB	CRUSHED AGGREGATE BASE	PCF	POUNDS PER CUBIC FEET
CB	CATCH BASIN	PR	PROPOSED
CIP	CAST IRON PIPE	PSI	POUNDS PER SQUARE INCH
CL	CENTERLINE	PVC	POLYVINYL CHLORIDE
CLSM	CONTROLLED LOW STRENGTH MATERIAL	RCP	REINFORCED CONCRETE PIPE
CMB	CRUSHED MISCELLANEOUS BASE	RD	ROAD
CONC	CONCRETE	R/W	RIGHT-OF-WAY
DIP	DUCTILE IRON PIPE	SCOE	SOUTHERN CALIFORNIA EDISON
DWY	DRIVEWAY	SD	STORM DRAIN
EC	END OF CURVE	SF	SQUARE FEET
ECR	END OF CURB RETURN	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
ELEC	ELECTRICAL CONDUIT	SS	SANITARY SEWER
ELEV	ELEVATION	ST	STREET
EX.	EXISTING	STA	STATION
FG	FINISH GRADE	STD	STANDARD
FH	FIRE HYDRANT	TC	TOP OF CURB
FIB OPT	FIBER OPTICS LINE	TELE	TELECOMMUNICATION
FL	FLOW LINE	TYP.	TYPICAL
FS	FINISH SURFACE	W.A.T.C.H	WORK AREA TRAFFIC CONTROL HANDBOOK
GSW	GOLDEN STATE WATER		
HDPE	HIGH DENSITY POLYETHYLENE INSIDE DIAMETER		
IN	INCHES		
INV.	INVERT		

## LEGEND

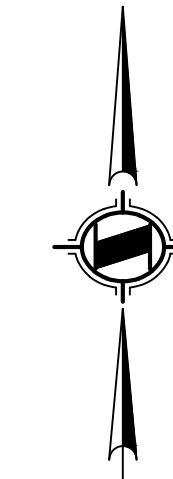
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---	SS	---	SS	---	EXISTING SANITARY SEWER LINE
---	SD	---	SD	---	EXISTING STORM DRAIN LINE
---	W	---	W	---	EXISTING WATER LINE
---	COM	---	COM	---	EXISTING TELECOMMUNICATIONS LINE
---	E	---	E	---	EXISTING ELECTRICAL LINE
---	O	---	O	---	EXISTING OIL LINE
---	FIB	---	FIB	---	EXISTING FIBER
---	TEL	---	TEL	---	EXISTING TELEPHONE LINE
---	E	---	E	---	EXISTING ELECTRICAL LINE
---	OHE	---	OHE	---	EXISTING OVERHEAD ELECTRICAL LINE
---		---		---	CITY BOUNDARY
---		---		---	STREET CENTERLINE

## SYMBOLS

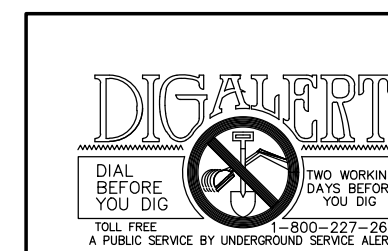
(2.3)	CONTOUR
---	DRIVEWAY
⊕	FIRE HYDRANT
⊙	GAS VALVE
⊙	GUY POLE
⊙	GUY WIRE
⊙	MANHOLE
⊙	OTHER TREE
⊙	EXISTING FIBER
⊙	EXISTING TELEPHONE LINE
⊙	EXISTING ELECTRICAL LINE
⊙	EXISTING OVERHEAD ELECTRICAL LINE
---	CITY BOUNDARY
---	STREET CENTERLINE
⊙	TRAFFIC SIGNAL
⊙	TRAFFIC SIGNAL BOX
⊙	Vault
⊙	WATER VALVE

## LOCATION MAP

SCALE: 1"=500'



CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT	
CULVER CITY CITYWIDE STORMWATER CAPTURE	
TITLE SHEET	
APPROVED BY: YANNI DEMITRI, P.E.	SHEET T-1
PUBLIC WORKS DIRECTOR/CITY ENGINEER	DATE
BY	APPR. DATE



1561 E. ORANGETHORPE AVE.  
SUITE 240  
FULLERTON, CA 92831  
TEL (714) 526-7500  
www.cwecorp.com

PLANS PREPARED UNDER THE SUPERVISION OF:  
KATHRYN (KATIE) HARREL, P.E.

Project Number: PZ497

Drawing No.



NO.

REVISION

BY

APPR.

DATE

Sheet 1 of 14 Sheets

**GENERAL NOTES:**

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PRIOR TO COMMENCING CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD. IF THE FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- NOTES AND DETAILS ON THESE PLANS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS, WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- THE WORK SHOWN ON THESE PLANS REQUIRES THE PRIME CONTRACTOR TO POSSESS A VALID CALIFORNIA CLASS A CONTRACTOR'S LICENSE.

**EXISTING & PROPOSED UTILITIES**

- INFORMATION ON LOCATION, SIZES AND DEPTH OF THE EXISTING UTILITIES WAS TAKEN FROM EXISTING DRAWINGS AND DATA, AND IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PLANS AND SHALL VERIFY SITE CONDITIONS PRIOR TO THE ORDERING OF MATERIALS AND COMMENCING WORK.
- ANY UTILITY INVESTIGATION DONE BY EXPLORATORY EXCAVATION POTHOLING SHALL USE VACUUM EXTRACTION OR HAND EXCAVATION METHODS ONLY.
- BEFORE CONSTRUCTION IS STARTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER OF EACH UTILITY AND DEFINE THE REQUIREMENTS AND METHODS TO ACCOMMODATE THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT, OR RELOCATION OF ANY UTILITIES AFFECTED BY THE PROPOSED WORK.
- IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO ADJUST TO FINISHED GRADE EXISTING SEWER AND STORM DRAIN MAINTENANCE HOLE COVERS AND ANY OTHER UTILITY BOX COVERS AND FURNISH AND INSTALL CONCRETE COLLARS AS REQUIRED TO MATCH PROPOSED PAVEMENT.
- THE CONTRACTOR SHALL BE COGNIZANT OF OVERHEAD LINES AT ALL TIMES.

**JOB SITE**

- ALL FIRE HYDRANTS, WATER CONTROL VALVES, AND MAINTENANCE HOLES SHALL BE KEPT FREE FROM OBSTRUCTIONS AND AVAILABLE FOR USE AT ALL TIMES.
- IN CASE OF SUSPENSION OF WORK FROM ANY CAUSE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND SHALL PROPERLY STORE THEM IF NECESSARY AND SHALL ERECT TEMPORARY STRUCTURES WHERE NECESSARY. CITY WILL NOT BE HELD RESPONSIBLE FOR THE CARE OR PROTECTION OF ANY MATERIAL OR PARTS OF THE WORK PRIOR TO FINAL ACCEPTANCE, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL MAINTAIN AND CLEAN, IF NECESSARY, ALL EXISTING ONSITE AND/OR ADJACENT STORM DRAIN INLETS AFFECTED BY CONSTRUCTION DURING THE COURSE OF CONSTRUCTION AND UNTIL THE WORK IS ACCEPTED BY THE CITY.
- ALL CONSTRUCTION DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF AT APPROVED DISPOSAL SITE. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION AND DISPOSAL OF MATERIAL.

**SURVEY & LAYOUT**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PROPERTY CORNER MARKERS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPLACING ANY SURVEY MONUMENTS THAT ARE DISTURBED DURING CONSTRUCTION. PROPERTY CORNER MARKERS AND SURVEY MONUMENTS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RE-ESTABLISHED BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF CALIFORNIA.
- THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
- CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR, POSSESSING A VALID STATE OF CALIFORNIA LAND SURVEYOR LICENSE.

**PUBLIC HEALTH, SAFETY & WELFARE**

- CONTRACTOR SHALL COMPLY WILL ALL LOCAL SOUND CONTROL AND NOISE LEVEL RULES, REGULATIONS AND ORDINANCES, INCLUDING BUT NOT LIMITED TO ALL APPLICABLE PROVISIONS OF CHAPTER 9.07 OF THE CULVER CITY MUNICIPAL CODE.

**MISCELLANEOUS**

- AT LEAST 72 HOURS SHALL ELAPSE FROM THE TIME CONCRETE IS PLACED BEFORE VEHICULAR TRAFFIC IS PERMITTED TO TRAVEL ON IT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- IN AREAS SHOWN ON THESE PLANS TO BE CONSTRUCTED OR RECONSTRUCTED AND WHERE EXISTING PAVEMENT OR SUBGRADE IS FOUND TO BE UNSTABLE, THE CONTRACTOR SHALL REMOVE AND REPLACE THE TOP 3 FEET OF SUBGRADE WITH CRUSHED MISCELLANEOUS BASE (CMB) AND COMPACT TO 90% OF MAX. DRY DENSITY OBTAINABLE AS MEASURED BY ASTM D-1157, IF SHALLOW UTILITIES PREVENT REMOVAL OF 3 FEET OF SUBGRADE SOIL, AN APPROVED WOVEN GEOTEXTILE OR GEODIR SHALL BE USED TO PROVIDE STRENGTH TO THE SUBGRADE.
- SAWING OF JOINTS SHALL BEGIN AS SOON AS THE CONCRETE HAS SUFFICIENTLY HARDENED TO PERMIT SAWING WITHOUT RAVELING, BUT NOT EXCEEDING TWELVE (12) HOURS AFTER PLACEMENT OF CONCRETE. PLACEMENT OF CONCRETE SHALL BE SCHEDULED TO BEGIN AND BE

COMPLETED IN SUFFICIENT TIME TO ALLOW SAWING OF JOINTS AS PREVIOUSLY STATED.

- CONCRETE SHALL HAVE A STRENGTH OF 4,000 PSI.
- ALL FILL SOILS OR SOILS DISTURBED OR OVER-EXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED TO 90% MAXIMUM DENSITY AS DETERMINED BY SOIL COMPACTION TEST D-1157.

**DESIGN & CONSTRUCTION STANDARDS:**

- THE FOLLOWING STANDARD PLANS & SPECIFICATIONS ARE APPLICABLE TO THIS PROJECT:
  - STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SPPWC), 2021 (OR LATEST) EDITION AND SUPPLEMENTS.
  - STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC), 2021 EDITION.
  - LOS ANGELES COUNTY STANDARD PLANS REF. 3080-3, 2008 EDITION.

**PUBLIC NOTIFICATION REQUIREMENTS:**

- THE CONTRACTOR SHALL PROVIDE THE FOLLOWING PUBLIC NOTICES PRIOR TO BEGINNING CONSTRUCTION ON THE PROJECT:
  - UPON RECEIVING THE NOTICE TO PROCEED DATE, THE CONTRACTOR SHALL ISSUE A NOTICE BY U.S. MAIL, PREPARED OR APPROVED BY THE CITY, NOTIFYING RESIDENTS AND BUSINESSES WITHIN 500 FEET OF THE PROJECT LIMITS ABOUT THE SCHEDULED WORK.
  - 2 WEEK PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL PREPARE AND DISTRIBUTE A NOTICE APPROVED BY THE CITY TO RESIDENTS AND BUSINESSES IMMEDIATELY ADJACENT TO THE PROJECT LIMITS.
  - CONTRACTOR SHALL PREPARE AND INSTALL/PLACE A PROJECT SIGN ON ALUMINUM BACKING AND MOUNTED ON TWO (2) 4X4 WOODEN POSTS WITHIN THE PROJECT LIMITS. THE SIGN SHALL PROVIDE INFORMATION REGARDING THE PROJECT, CONSTRUCTION DATES AND TIMES, ALONG WITH GENERAL AND EMERGENCY CONTACT INFORMATION. LETTERS USED ON THE SIGN SHALL BE 4-6 INCHES HIGH.

**GRADING NOTES:**

- NO WORK SHALL BE STARTED IN OR ABOUT A GRADING PROJECT WITHOUT FIRST NOTIFYING THE ENGINEER.
- NO GRADING WORK, INCLUDING IMPORT AND EXPORT, SHALL BE DONE OUTSIDE OF CITY SPECIFIED CONSTRUCTION HOURS, EXCEPT IN EMERGENCIES. A HAUL ROUTE SHALL BE PREPARED BY THE CONTRACTOR SATISFACTORY TO THE PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION.
- NO PERSON SHALL, WHEN HAULING ANY EARTH, SAND, GRAVEL, ROCK, STONE, DEBRIS, PAPER OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE, ALLOW SUCH MATERIALS TO BLOW OR SPILL OVER AND UPON THE PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE OR ADJACENT PRIVATE PROPERTY.
- THE LOADING OR DUMPING OF EXCESS SOIL SHALL BE APPROVED BY THE ENGINEER PRIOR TO STARTING EXCAVATION.
- IF AT ANY STAGE OF WORK ON AN EXCAVATION OR FILL THE ENGINEER DETERMINES THAT FURTHER WORK AS AUTHORIZED BY AN EXISTING PERMIT IS LIKELY TO ENDANGER ANY PROPERTY OR PUBLIC WAY THE ENGINEER MAY REQUIRE, AS A CONDITION TO ALLOW THE WORK TO CONTINUE, THAT PLANS FOR SUCH WORK BE AMENDED TO INCLUDE ADEQUATE SAFETY PRECAUTIONS.
- INSPECTIONS OF EXCAVATION AND FILLS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN THE GRADING OPERATION IS READY FOR EACH OF THE FOLLOWING INSPECTIONS:
  - INITIAL MEETING/ INSPECTION: WHEN THE PERMITEE IS READY TO BEGIN WORK, BUT BEFORE GRADING OR BRUSHING IS STARTED, A MEETING SHALL BE HELD AT THE PROJECT SITE WITH THE CONTRACTOR AND THE INSPECTOR TO DISCUSS THE APPROVED PLANS, AND THE SEQUENCE OF THE GRADING OPERATION.
  - EXCAVATION INSPECTION: AFTER THE EXCAVATION IS STARTED, BUT BEFORE THE VERTICAL HEIGHT DEPTH OF THE EXCAVATION EXCEEDS TEN FEET.
  - FILL INSPECTION: AFTER THE FILL PLACEMENT IS STARTED, BUT BEFORE THE VERTICAL HEIGHT OF THE LIFT EXCEEDS TEN FEET.
  - DRAINAGE DEVICE INSPECTION: AFTER FORMS AND PIPE ARE IN PLACE, BUT BEFORE ANY CONCRETE IS PLACED.
  - FINAL: WHEN ALL WORK, INCLUDING INSTALLATION OF ALL DRAINAGE STRUCTURES AND OTHER PROTECTIVE DEVICES, HAS BEEN COMPLETED AND THE AS-GRADED PLAN AND REQUIRED REPORTS HAVE BEEN SUBMITTED.
- THE CONTRACTOR SHALL OBTAIN A PERMIT FROM CALIFORNIA DIVISION OF INDUSTRIAL SAFETY FOR THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER. SHEETING, SHORING, AND BRACING FOR THE TRENCH EXCAVATION SHALL CONFORM TO THE REQUIREMENTS OF "CONSTRUCTION SAFETY ORDERS," TITLE 8, DIVISION OF INDUSTRIAL SAFETY, STATE OF CALIFORNIA.
- A COPY OF THE APPROVED PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
- WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS PLAN SET, TECHNICAL SPECIFICATIONS, PROVISIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), AND ALL REFERENCES.
- FILL PLACEMENT AREAS SHALL BE INSPECTED AND APPROVED BY THE CONSULTANT GEOLOGIST AND SOILS ENGINEER PRIOR TO PLACEMENT OF ANY FILL.
- EXCAVATION SHALL BE DONE UNDER THE SUPERVISION OF A SOILS ENGINEER WHO SHALL CERTIFY THAT ALL FILL HAS BEEN PROPERLY PLACED AND WHO SHALL SUBMIT A FINAL COMPACTION REPORT

FOR ALL FILLS OVER ONE FOOT DEEP.

- THE EXISTING TOPOGRAPHY AS DELINEATED ON THESE DRAWINGS SHALL BE UTILIZED AS THE BASIS FOR ALL EARTHWORK COMPUTATIONS. SAID TOPOGRAPHY SHALL BE PRESUMED TO BE ACCEPTABLE TO ALL INTERESTED PARTIES UNLESS A DEVIATION IS FOUND PRIOR TO THE START OF GRADING IN ANY SPECIFIC AREAS. ANY DEVIATION SO DETERMINED SHALL BE PROMPTLY TRANSMITTED TO ALL INTERESTED PARTIES.
- OVER-EXCAVATION AND/OR EXCESS BACKFILLING OR DUPLICATION OF GRADING ACTIVITIES IS NOT A BASIS FOR ADDITIONAL COMPENSATION. THIS ALSO APPLIES WHERE MATERIAL IS TO BE REMOVED AND REPLACED TO REDUCE MOISTURE CONTENT.

**CULVER CITY GENERAL UTILITY NOTES:**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) AND ANY AMENDMENTS THERETO, THE LATEST EDITION OF THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK STANDARD PLANS), OTHER CITY STANDARDS, AND TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR/CITY ENGINEER, OR HIS/HER DESIGNEE.
- TRAFFIC CONTROL SHALL BE PER W.A.T.C.H. AND TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR.
- LANE CLOSURES ARE PERMITTED ONLY BETWEEN THE HOURS OF 9:00AM AND 3:00PM WEEKDAYS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER OR HIS/HER DESIGNEE AS PART OF THE CONDITIONS OF APPROVAL OR APPROVED TRAFFIC CONTROL PLANS.
- CONTRACTOR SHALL CALL FOR INSPECTION FOR REPAVING AT 310-253-5611 AT LEAST 48-HOURS IN ADVANCE. FAILURE TO PROPERLY NOTIFY THE PUBLIC WORKS INSPECTOR IS CAUSE FOR REVOCATION OF PERMIT.
- TO MINIMIZE INCONVENIENCE TO TRAFFIC AND THE PUBLIC IN GENERAL, THE CONTRACTOR SHALL SCHEDULE THE CONCRETE PLACEMENT AND/OR ROADWAY PAVEMENT TO BE COMPLETED NO LATER THAN TWO (2) DAYS AFTER THE REMOVAL OPERATIONS, UNLESS APPROVED BY THE PUBLIC WORKS INSPECTOR. SAFE AND ADEQUATE PEDESTRIAN AND VEHICULAR MOVEMENT AT AND AROUND ALL CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES. APPROVED BARRIERS AND SIGNS (TRAFFIC FLAGGING PERSONAL, IF NECESSARY), SHALL BE FURNISHED AND UTILIZED BY THE CONTRACTOR TO ENSURE PUBLIC SAFETY AT ALL TIMES.
- APPROVAL OF THIS PLAN BY THE CITY OF CULVER CITY DOES NOT CONSTITUTE A REPRESENTATION OF THE ACCURACY OF THE LOCATION OF THE EXISTENCE OF ANY UNDERGROUND UTILITY, PIPE OR STRUCTURE WITHIN THE LIMITS OF THE PROJECT.
- THE APPLICANT SHALL BE RESPONSIBLE FOR THE EXPENSE AND TO REPAIR OR REPLACE ANY DAMAGED TO THE PUBLIC RIGHT-OF-WAY, TO INCLUDE EXISTING TRAFFIC LOOPS, SIGNAL, LIGHTING, ELECTRICAL SYSTEMS, AND UNDERGROUND INSTALLATIONS (WHETHER OR NOT PHYSICALLY MARKED OR SHOWN ON THE CONTRACT PLANS), DAMAGED CAUSED BY THE CONSTRUCTION OF THE PROPOSED WORK OR PROJECT. SUCH REPAIRS OR REPLACEMENT SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY ENGINEER.
- ALL CONTRACTORS OR SUBCONTRACTORS THAT PERMITEE ENGAGES FOR ANY OR ALL OF THE WORK TO BE COMPLETED BY THE PERMIT, SHALL HAVE A CITY BUSINESS LICENSE, LIABILITY INSURANCE WITH THE CITY NAMED AS ADDITIONALLY INSURED, AND WORKERS COMPENSATION INSURANCE. THE LIABILITY INSURANCE SHALL HAVE A MINIMUM COVERAGE OF ONE MILLION DOLLARS PER INCIDENT AND TWO MILLION DOLLARS AGGREGATE AND INCLUDE AUTOMOBILE LIABILITY OF ONE MILLION DOLLARS.
- THE CONTRACTOR SHALL NOT DISCHARGE OR PERMIT TO BE DISCHARGED TO ANY STREET, STORM DRAIN, OF ANY APPURTENANCE THEREOF, ANY NON-RAIN WATER OR OTHER LIQUID FROM THE PROJECT SITE OF FROM OPERATIONS PERTAINING TO THE PROJECT SITE, PER NPDES REGULATIONS AND CITY'S STORM WATER POLLUTION ORDINANCE SECTION 5.02.500 ET SEQ.
- CATCH BASINS WITHIN 50 FEET OF WORK AREA SHALL BE PROTECTED WITH PERMEABLE FABRIC AND SANDBAGS PRIOR TO COMMENCING WORK AND MAINTAINED DURING DURATION OF OPERATIONS.
- EXISTING UNDERGROUND LIGHTING, ELECTRICAL SYSTEMS AND UTILITY LINES DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED OR RESTORED IN KIND OR BETTER AT THE PERMITEE'S EXPENSE.
- STOCKPILING OF MATERIAL OR EQUIPMENT IN THE PUBLIC RIGHT OF WAY IS PROHIBITED UNLESS AUTHORIZED BY THE PUBLIC WORKS DIRECTOR/CITY ENGINEER OR HIS/HER DESIGNEE.
- THE PROJECT WORK AREA SHALL BE KEPT CLEAN, SAFE, AND SANITARY CONDITION. AT THE END OF EACH WORK DAY, THE PROJECT WORK AREA SHALL BE SWEEP BY MANUAL OR MECHANICAL MEANS TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR/CITY ENGINEER, OR HIS/HER DESIGNEE.
- NO STAGING OF CONSTRUCTION MATERIALS OR CONSTRUCTION VEHICLES ALONG PUBLIC RIGHT OF WAY UNLESS AUTHORIZED BY THE PUBLIC WORKS DIRECTOR/CITY ENGINEER OR HIS/HER DISIGNEE.
- CONSTRUCTION VEHICLES SHALL NOT BE PARKED OVER NIGHT OR DURING NON-OPERATIONAL HOURS ON PUBLIC RIGHT OF WAY.
- CONTRACTOR SHALL CALL FOR INSPECTION AT 310-253-5600 AT LEAST 24 HOURS IN ADVANCE.
- DIG ALERT SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF EXCAVATION.
- ALL SIGNS/STREET LIGHTS EQUIPMENT DAMAGED MUST BE REPAIRED WITHIN 24 HOURS.
- ALL EXISTING UTILITY BOXES SHALL BE ADJUSTED TO GRADE.
- CONTRACTOR TO NOTIFY PUBLIC WORKS INSPECTOR 48-HOURS PRIOR TO COMMENCING WORK IN THE PUBLIC RIGHT-OR-WAY AT 310-253-5612

**SITE 1 (BERRYMAN AVENUE)**

**BASIS OF BEARINGS**

THE CCS83 GRID BEARING BETWEEN C.S.R.N. STATIONS "P800" AND "WRHS" BEING NORTH 46-03'32" EAST, DISTANCE OF 33188.73 AS DERIVED FROM THE POSITIONS FOR SAID STATIONS, IN SAID EPOCH, PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (C.S.R.C.) EPOCH 2017.5, ON JANUARY 20TH, 2023, WAS USED AS THE BEARINGS FOR THIS SURVEY.

**BENCHMARK**

**BENCHMARK:**  
CULVER CITY QUAD  
BM: 5Y 12519; 2013 ADJ  
NAVD 88 ELEVATION =(23.793) FEET

LEAD & MAG NAIL IN N. CB 1FT W/O ECR @  
N.W. COR SEPULVEDA BL & SLAUSON AVE.

**SITE 2 (SEGRELL WAY)**

**BASIS OF BEARINGS**

THE CCS83 GRID BEARING BETWEEN C.S.R.N. STATIONS "P800" AND "WRHS" BEING NORTH 46-03'32" EAST, DISTANCE OF 33188.73 AS DERIVED FROM THE POSITIONS FOR SAID STATIONS, IN SAID EPOCH, PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (C.S.R.C.) EPOCH 2017.5, ON JANUARY 20TH, 2023, WAS USED AS THE BEARINGS FOR THIS SURVEY.

**BENCHMARK**

**BENCHMARK:**  
CULVER CITY QUAD  
BM: 5Y 12519; 2013 ADJ  
NAVD 88 ELEVATION =(23.793) FEET

LEAD & MAG NAIL IN N. CB 1FT W/O ECR @  
N.W. COR SEPULVEDA BL & SLAUSON AVE.

**SITE 3 (PICKFORD WAY)**

**BASIS OF BEARINGS**

THE CCS83 GRID BEARING BETWEEN C.S.R.N. STATIONS "P800" AND "WRHS" BEING NORTH 46-03'32" EAST, DISTANCE OF 33188.73 AS DERIVED FROM THE POSITIONS FOR SAID STATIONS, IN SAID EPOCH, PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (C.S.R.C.) EPOCH 2017.5, ON JANUARY 20TH, 2023, WAS USED AS THE BEARINGS FOR THIS SURVEY.

**BENCHMARK**

**BENCHMARK:**  
CULVER CITY QUAD  
BM: 5Y 10984; 2013 ADJ  
NAVD 88 ELEVATION =(52.135) FEET

DPW BM TAG IN E. CB 1FT N/O BCR @ N.E. COR JEFFERSON BL & OVERLAND AVE.

**SITE 4 (JASMINE AVENUE)**

**BASIS OF BEARINGS**

THE CCS83 GRID BEARING BETWEEN C.S.R.N. STATIONS "P800" AND "WRHS" BEING NORTH 46-03'32" EAST, DISTANCE OF 33188.73 AS DERIVED FROM THE POSITIONS FOR SAID STATIONS, IN SAID EPOCH, PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (C.S.R.C.) EPOCH 2017.5, ON JANUARY 20TH, 2023, WAS USED AS THE BEARINGS FOR THIS SURVEY.

**BENCHMARK**

**BENCHMARK:**  
CULVER CITY QUAD  
BM: 5Y 10195; 2013 ADJ  
NAVD 88 ELEVATION =(67.628) FEET

RDBM TAG IN W. CB JEFFERSON BL 40FT W/O C/L & 29.5FT N/O C/L  
PROD RAIN TREE CIRCLE.

**SITE 5 (REVERE PLACE)**

**BASIS OF BEARINGS**

THE CCS83 GRID BEARING BETWEEN C.S.R.N. STATIONS "P800" AND "WRHS" BEING NORTH 46-03'32" EAST, DISTANCE OF 33188.73 AS DERIVED FROM THE POSITIONS FOR SAID STATIONS, IN SAID EPOCH, PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (C.S.R.C.) EPOCH 2017.5, ON JANUARY 20TH, 2023, WAS USED AS THE BEARINGS FOR THIS SURVEY.

**BENCHMARK**

**BENCHMARK:**  
CULVER CITY QUAD  
BM: 5Y 10983; 2013 ADJ  
NAVD 88 ELEVATION =(62.822) FEET

DPW TAG IN E. CB 3.3FT N/O BCR @ N.E. COR OVERLAND AVE & NORTHGATE ST.

**SITE 6 (WESLEY STREET)**

**BASIS OF BEARINGS**

THE CCS83 GRID BEARING BETWEEN C.S.R.N. STATIONS "P800" AND "WRHS" BEING NORTH 46-03'32" EAST, DISTANCE OF 33188.73 AS DERIVED FROM THE POSITIONS FOR SAID STATIONS, IN SAID EPOCH, PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (C.S.R.C.) EPOCH 2017.5, ON JANUARY 20TH, 2023, WAS USED AS THE BEARINGS FOR THIS SURVEY.

**BENCHMARK**

**BENCHMARK:**  
CULVER CITY QUAD  
BM: 5Y 10987; 2013 ADJ  
NAVD 88 ELEVATION =(83.375) FEET

LEAD & FLT HEAD SPK IN W. CB @ BCR S.W. COR JEFFERSON BL & HOLDREGE AVE.  
(N. END CB)

**SITE 7 & 8 (NORTHGATE & GALVIN STREET)**

**BASIS OF BEARINGS**

THE CCS83 GRID BEARING BETWEEN C.S.R.N. STATIONS "P800" AND "WRHS" BEING NORTH 46-03'32" EAST, DISTANCE OF 33188.73 AS DERIVED FROM THE POSITIONS FOR SAID STATIONS, IN SAID EPOCH, PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (C.S.R.C.) EPOCH 2017.5, ON JANUARY 20TH, 2023, WAS USED AS THE BEARINGS FOR THIS SURVEY.

**BENCHMARK**

**BENCHMARK:**  
CULVER CITY QUAD  
BM: 5Y 1086; 2013 ADJ  
NAVD 88 ELEVATION =(81.261) FEET

L & SPK IN N.W. COR CB 30.8FT S/O BCR @ S.W. COR JEFFERSON BL & DUQUESNE AVE.

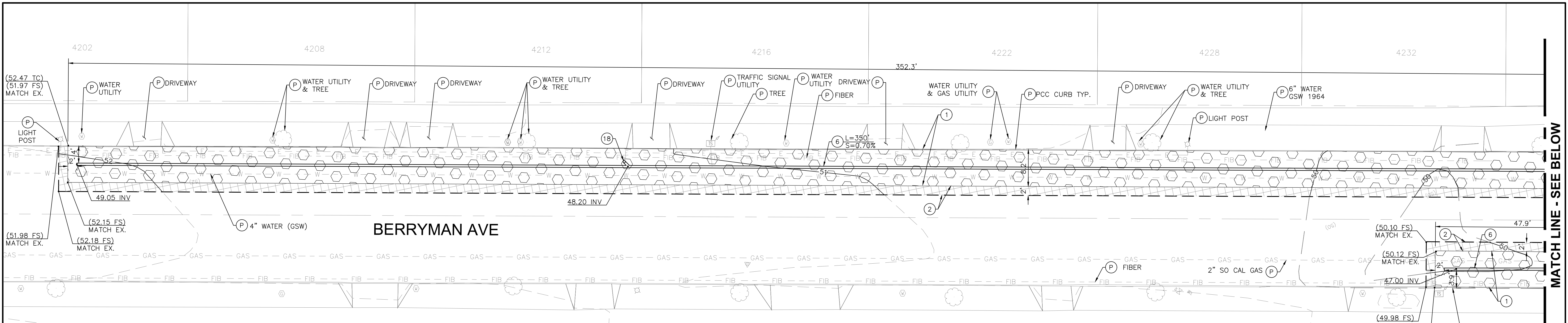
CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT

CULVER CITY  
CITYWIDE STORMWATER CAPTURE

**GENERAL NOTES**

APPROVED BY: JAVIER DELACRUZ, P.E.	SHEET C - 1
SENIOR CIVIL ENGINEER	DATE
Sheet 2 of 14 Sheets	

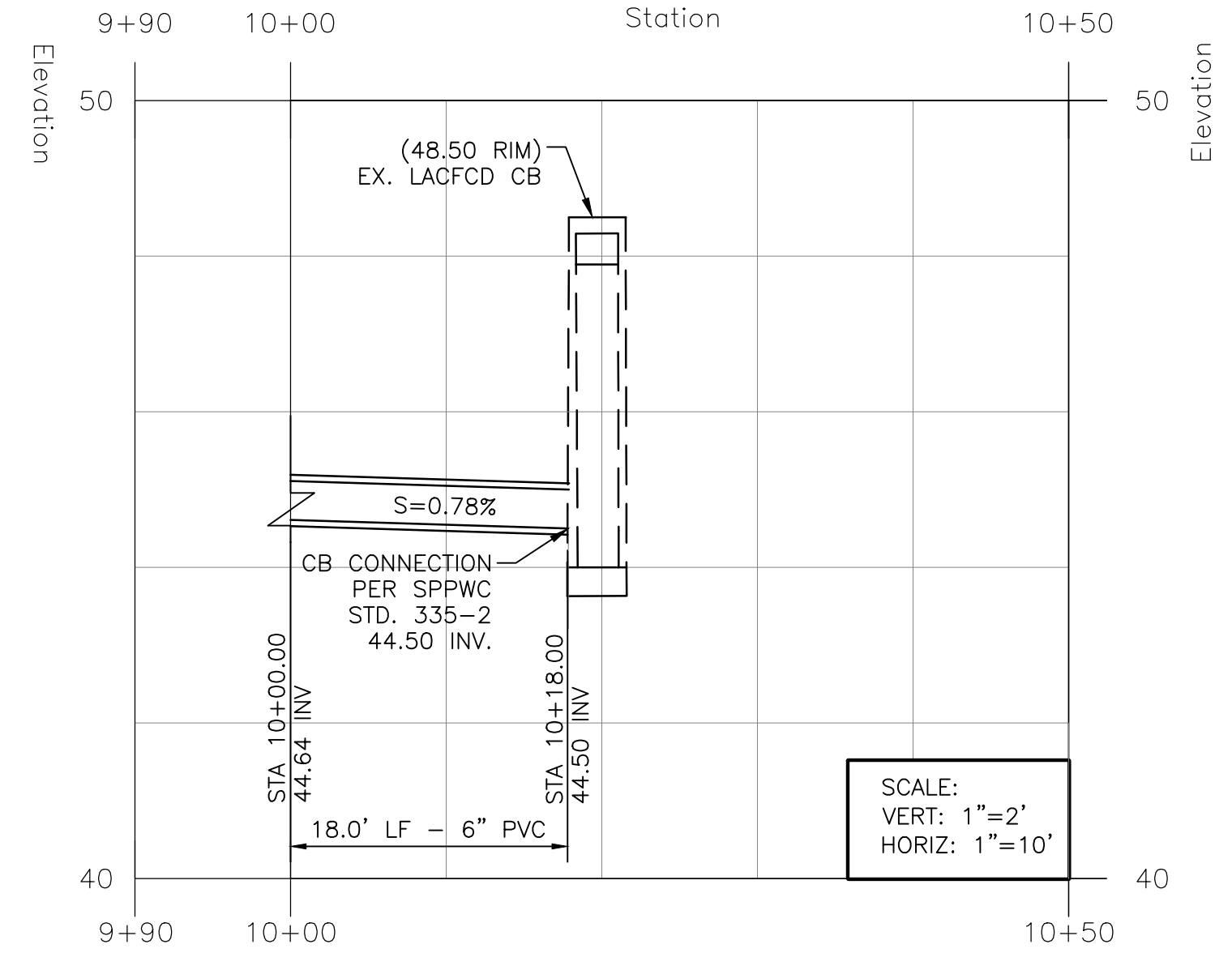
	PREPARED BY 1561 E. ORANGETHORPE AVE. SUITE 240 FULLERTON, CA 92831 TEL (714) 526-7500 www.cwecorp.com	PLANS PREPARED UNDER THE SUPERVISION OF: KATHRYN (KATIE) HARREL, P.E.						
	Project Number: PZ497							
Drawing No.	NO.	REVISION				BY	APPR.	DATE



**BERRYMAN AVE**

**PERVIOUS PAVEMENT  
BERRYMAN AVENUE**

**LACFCD CONNECTION PROFILE VIEW**



**NOTE TO CONTRACTOR:**  
 AREA ALONG PROPOSED 6" PVC WAS SKETCHED IN, BASED ON A FIELD REVIEW RATHER THAN A TOPOGRAPHIC SURVEY.  
 THE CONTRACTOR SHALL SURVEY THE AREA TO CONFIRM PROPOSED IMPROVEMENTS PRIOR TO CONSTRUCTION

- LEGEND:**
- PERVIOUS CONCRETE
  - FULL DEPTH AC REPLACEMENT

**CONSTRUCTION NOTES:**

- (P) PROTECT IN PLACE
- (1) 6" PERVIOUS CONCRETE PAVEMENT OVER 30" OF 3/4" CRUSHED ROCK PER DETAIL 1 ON SHEET C-10
- (2) FULL DEPTH AC REPLACEMENT TO MATCH EXISTING SITE CONDITIONS
- (5) 6" PVC STORM DRAIN AND BEDDING/TRENCH PER DETAIL 5 ON SHEET C-13
- (6) 6" PERFORATED PVC UNDERDRAIN SHOWN WITH ASSOCIATED BMP DETAIL
- (8) CONNECT TO EXISTING CATCH BASIN PER SPPWC STD. PLAN 335-2
- (18) STORM DRAIN CLEANOUT PER DETAIL 18 ON SHEET C-10

- NOTE TO CONTRACTOR:**
1. TREE ROOT TRIMMING: THE CONTRACTOR SHALL COORDINATE WITH THE CITY ARBORIST FOR RECOMMENDATIONS RELATED TO THE HEALTH AND STABILITY OF ANY TREES PRIOR TO COMMENCING WORK.
  2. STREETLIGHT AND FIBER UTILITIES ARE DRAWN SCHEMATICALLY. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS FOR ALL UTILITIES PRIOR TO WORK AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER.
  3. SEVERAL SERVICE LATERALS ARE ANTICIPATED WITHIN THE PROJECT AREA AND ARE NOT DEPICTED IN THE PLANS. THE CONTRACTOR SHALL IDENTIFY THE LOCATIONS OF THE SERVICE LINES PRIOR TO WORK AND CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

IMPROVEMENT	AREA (SF)
PERVIOUS PAVEMENT	3200

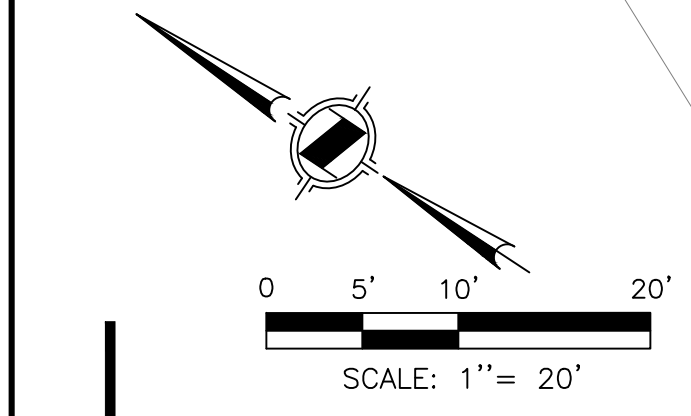
**CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT**

**CULVER CITY  
CITYWIDE STORMWATER CAPTURE**

**SITE 1  
BERRYMAN AVENUE**

APPROVED BY: JAVIER DELACRUZ, P.E.  
 SENIOR CIVIL ENGINEER

SHEET  
**C - 2**  
 Sheet 3 of 14 Sheets



MATCH LINE - SEE ABOVE

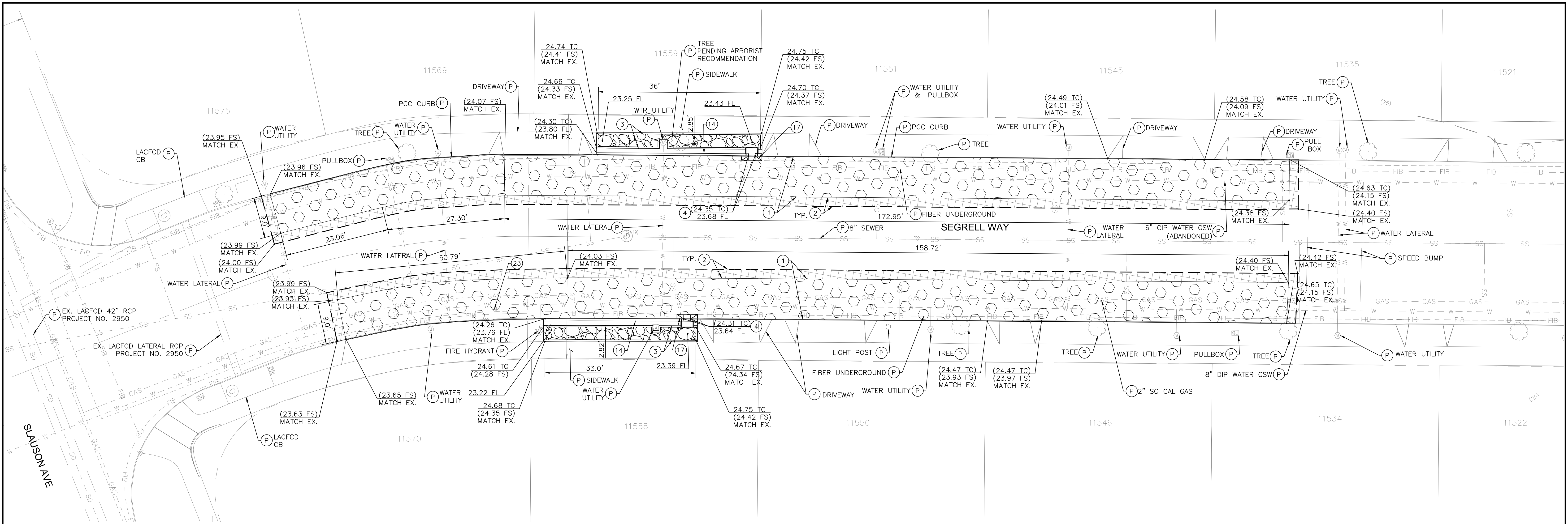
MATCH LINE - SEE BELOW



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**CWE**  
 1561 E. ORANGETHORPE AVE.  
 SUITE 240  
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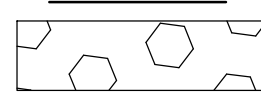

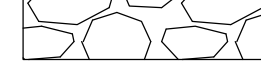
PLANS PREPARED UNDER THE SUPERVISION OF:  
**KATHRYN (KATIE) HARREL, P.E.**  
 Project Number: PZ497  
 Drawing No.

NO.	REVISION	BY	APPR.	DATE



**BIORETENTION & PERVIOUS PAVEMENT  
SEGRELL WAY**

**LEGEND:**

-  PERVIOUS CONCRETE
-  FULL DEPTH AC REPLACEMENT
-  BIORETENTION

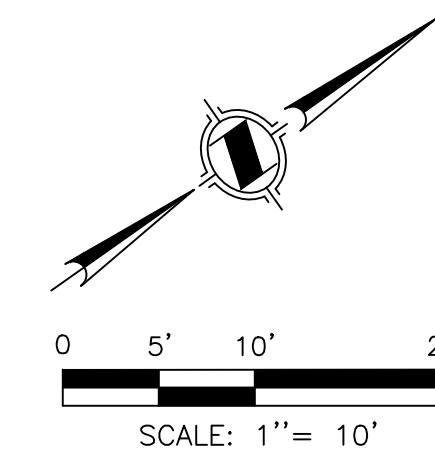
**NOTE TO CONTRACTOR:**

1. TREE ROOT TRIMMING:  
THE CONTRACTOR SHALL COORDINATE WITH THE CITY ARBORIST FOR RECOMMENDATIONS RELATED TO THE HEALTH AND STABILITY OF ANY TREES PRIOR TO COMMENCING WORK.
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3. SEVERAL SERVICE LATERALS ARE ANTICIPATED WITHIN THE PROJECT AREA AND ARE NOT DEPICTED IN THE PLANS. THE CONTRACTOR SHALL IDENTIFY THE LOCATIONS OF THE SERVICE LINES PRIOR TO WORK AND CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

**CONSTRUCTION NOTES:**

- (P) — PROTECT IN PLACE
- ① — 6" PERVIOUS CONCRETE PAVEMENT OVER 30" OF 3/4" CRUSHED ROCK PER DETAIL 1 ON SHEET C-10
- ② — FULL DEPTH AC REPLACEMENT TO MATCH EXISTING SITE CONDITIONS
- ③ — BIORETENTION PER DETAIL 3 ON SHEET C-11
- ④ — CURB CUT & PCC SWALE INTO BIORETENTION PER DETAIL 4 ON SHEET C-11
- ⑭ — PCC CURB PER SPPWC STD. PLAN 120-3, TYPE A1-6
- ⑰ — LOCAL DEPRESSION PER DETAIL 17 ON SHEET C-11
- ⑳ — ADJUST WATER VALVE TO GRADE

IMPROVEMENT	AREA (SF)
PERVIOUS PAVEMENT	3880
BIORETENTION	215




CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT

CULVER CITY  
CITYWIDE STORMWATER CAPTURE

SITE 2  
SEGRELL WAY



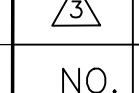
APPROVED BY: JAVIER DELACRUZ, P.E.	SHEET C-3
SENIOR CIVIL ENGINEER	DATE
DATE	Sheet 4 of 14 Sheets

PREPARED BY

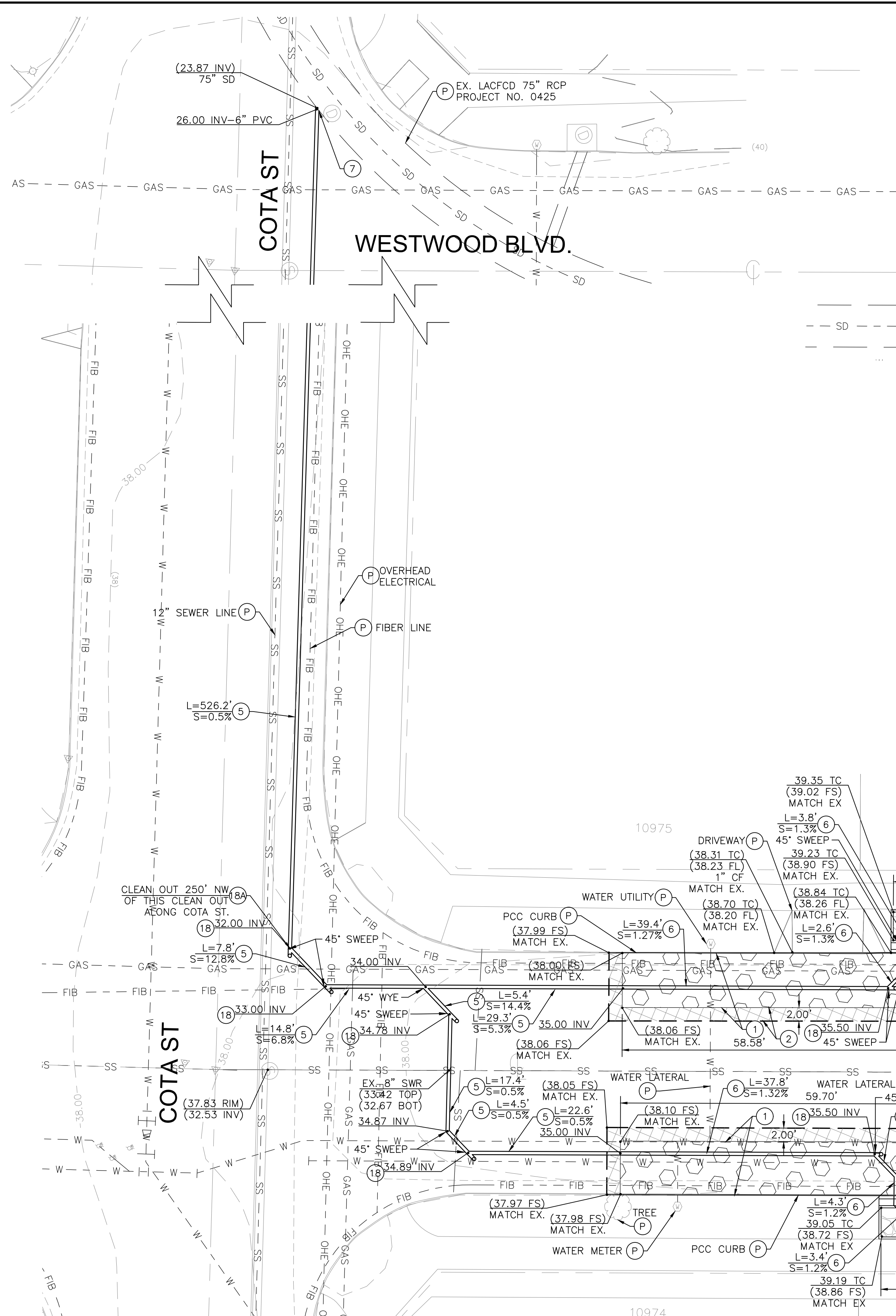


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SUITE 240  
FULLERTON, CA 92831  
TEL (714) 526-7500  
www.cwecorp.com

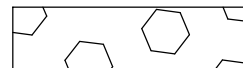


PLANS PREPARED UNDER THE SUPERVISION OF:

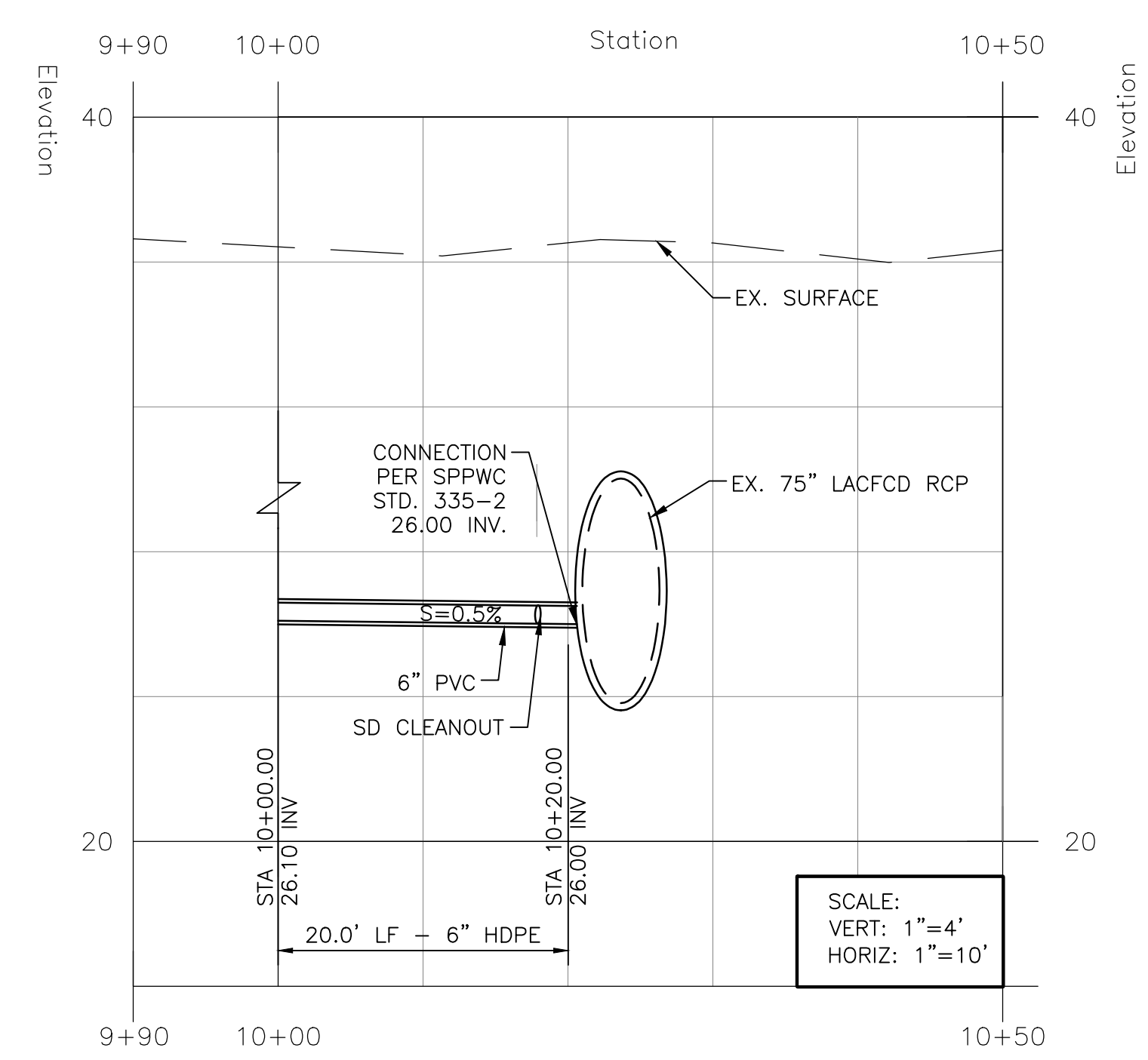
KATHRYN (KATIE) HARREL, P.E.	
Project Number: PZ497	
Drawing No.	

NO.	REVISION	BY	APPR.	DATE



**LEGEND:**

-  PERVIOUS CONCRETE
-  FULL DEPTH AC REPLACEMENT
-  BIORETENTION



LACFCD CONNECTION PROFILE VIEW 2

**CONSTRUCTION NOTES:**

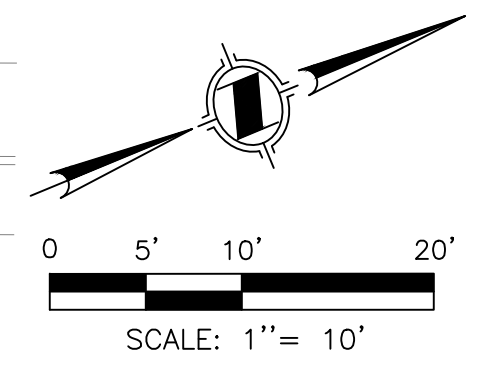
- (P) — PROTECT IN PLACE
- (1) — 6" PERVIOUS CONCRETE PAVEMENT OVER 30" OF 3/4" CRUSHED ROCK PER DETAIL 1 ON SHEET C-10
- (2) — FULL DEPTH AC REPLACEMENT TO MATCH EXISTING SITE CONDITIONS
- (3) — BIORETENTION PER DETAIL 3 ON SHEET C-11
- (4) — CURB CUT & PCC SWALE INTO BIORETENTION PER DETAIL 4 ON SHEET C-11
- (5) — 6" PVC STORM DRAIN AND BEDDING/TRENCH PER DETAIL 5 ON SHEET C-13
- (6) — 6" PERFORATED PVC UNDERDRAIN SHOWN WITH ASSOCIATED BMP DETAIL
- (7) — CONNECT TO EXISTING STORM DRAIN PER SPPWC STD. PLAN 335-2
- (14) — PCC CURB PER SPPWC STD. PLAN 120-3, TYPE A1-6
- (15) — PCC CURB AND GUTTER PER SPPWC STD. PLAN 120-3, TYPE A2-6
- (17) — LOCAL DEPRESSION PER DETAIL 17 ON SHEET C-11
- (18) — STORM DRAIN CLEANOUT PER DETAIL 18 ON SHEET C-10
- (18A) — STORM DRAIN CLEANOUT TO BE PLACED 250' NW OF PROPOSED CLEANOUT ALONG COTA ST.

**NOTE TO CONTRACTOR:**

1. TREE ROOT TRIMMING: THE CONTRACTOR SHALL COORDINATE WITH THE CITY ARBORIST FOR RECOMMENDATIONS RELATED TO THE HEALTH AND STABILITY OF ANY TREES PRIOR TO COMMENCING WORK.
2. STREETLIGHT AND FIBER UTILITIES ARE DRAWN SCHEMATICALLY. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS FOR ALL UTILITIES PRIOR TO WORK AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER.
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IMPROVEMENT	AREA (SF)
PERVIOUS PAVEMENT	955
BIORETENTION	405

**BIORETENTION & PERVIOUS PAVEMENT PICKFORD WAY**





CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT

CULVER CITY  
CITYWIDE STORMWATER CAPTURE

SITE 3  
PICKFORD WAY

PREPARED BY

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SUITE 240  
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TEL (714) 526-7500  
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PLANS PREPARED UNDER THE SUPERVISION OF:  
KATHRYN (KATIE) HARREL, P.E.

Project Number: PZ497

Drawing No.

NO.	REVISION

REVISION

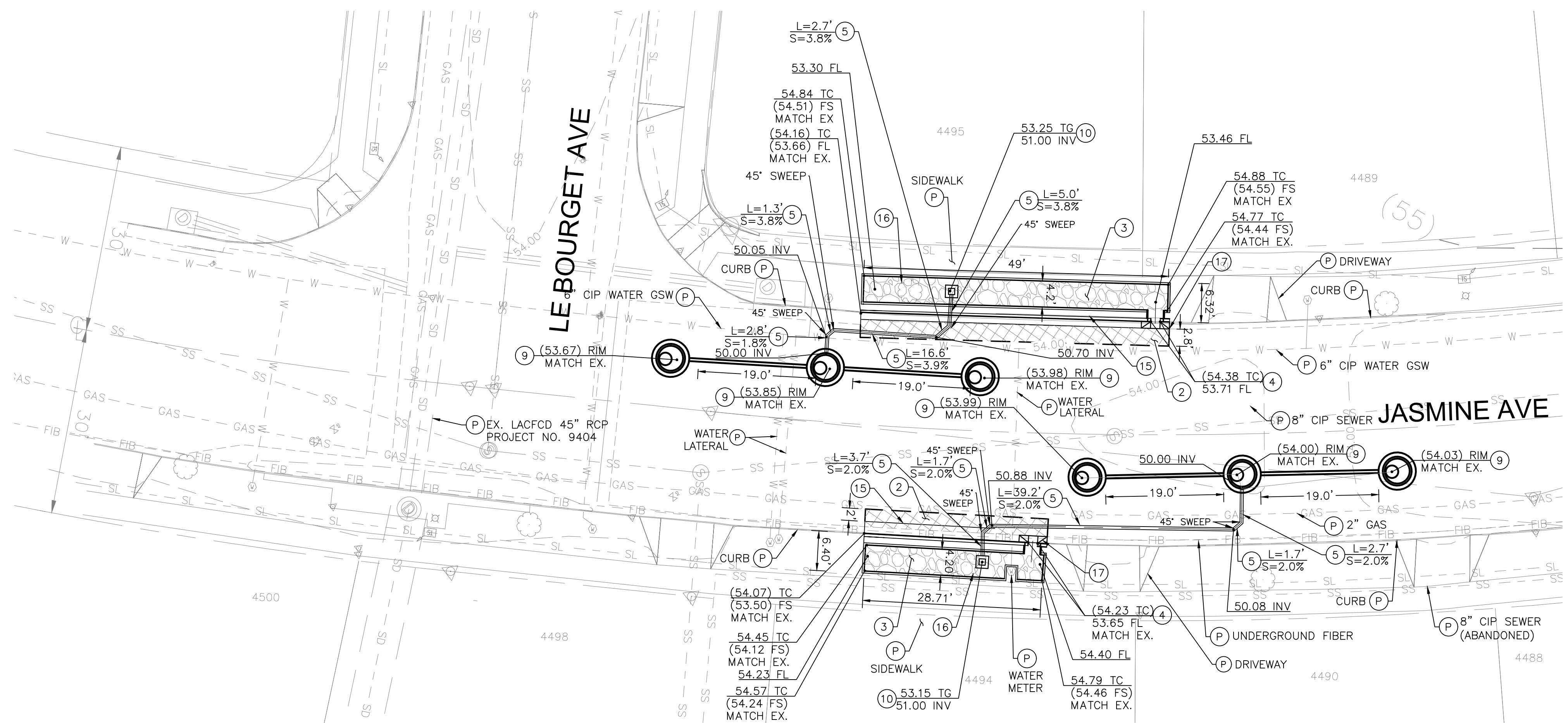
BY APPR. DATE

APPROVED BY: JAVIER DELACRUZ, P.E.

SENIOR CIVIL ENGINEER

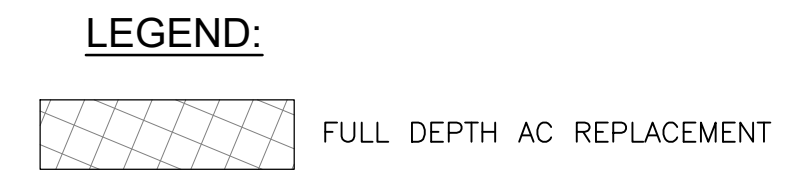
SHEET C-4

Sheet 5 of 14 Sheets



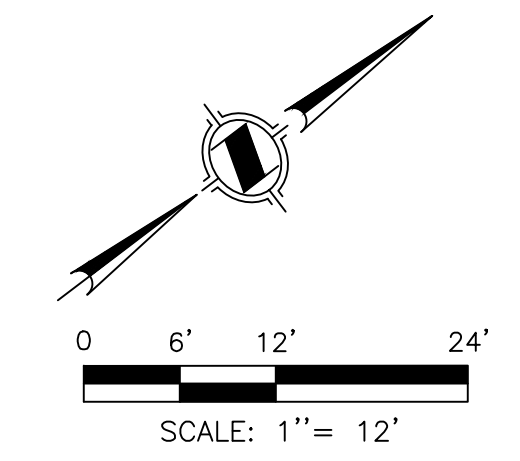
**BIORETENTION & DRYWELLS  
JASMINE AVENUE**

- CONSTRUCTION NOTES:**
- (P) PROTECT IN PLACE
  - (2) FULL DEPTH AC REPLACEMENT TO MATCH EXISTING SITE CONDITIONS
  - (3) BIORETENTION PER DETAIL 3 ON SHEET C-11
  - (4) CURB CUT & PCC SWALE INTO BIORETENTION PER DETAIL 4 ON SHEET C-11
  - (5) 6" PVC STORM DRAIN AND BEDDING/TRENCH PER DETAIL 5 ON SHEET C-13
  - (9) DRYWELL SYSTEM PER DETAIL 9 ON SHEET C-12
  - (10) 12" X 12" PRECAST CONCRETE CATCH BASIN WITH GRATE INLET
  - (15) PCC CURB AND GUTTER PER SPPWC STD. PLAN 120-3, TYPE A2-6
  - (16) REMOVE EXISTING TREE
  - (17) LOCAL DEPRESSION PER DETAIL 17 ON SHEET C-11



- NOTE TO CONTRACTOR:**
1. TREE ROOT TRIMMING: THE CONTRACTOR SHALL COORDINATE WITH THE CITY ARBORIST FOR RECOMMENDATIONS RELATED TO THE HEALTH AND STABILITY OF ANY TREES PRIOR TO COMMENCING WORK.
  2. STREETLIGHT AND FIBER UTILITIES ARE DRAWN SCHEMATICALLY. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS FOR ALL UTILITIES PRIOR TO WORK AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER.
  3. SEVERAL SERVICE LATERALS ARE ANTICIPATED WITHIN THE PROJECT AREA AND ARE NOT DEPICTED IN THE PLANS. THE CONTRACTOR SHALL IDENTIFY THE LOCATIONS OF THE SERVICE LINES PRIOR TO WORK AND CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

IMPROVEMENT	AREA (SF)/COUNT
DRYWELLS	4
BIORETENTION	355



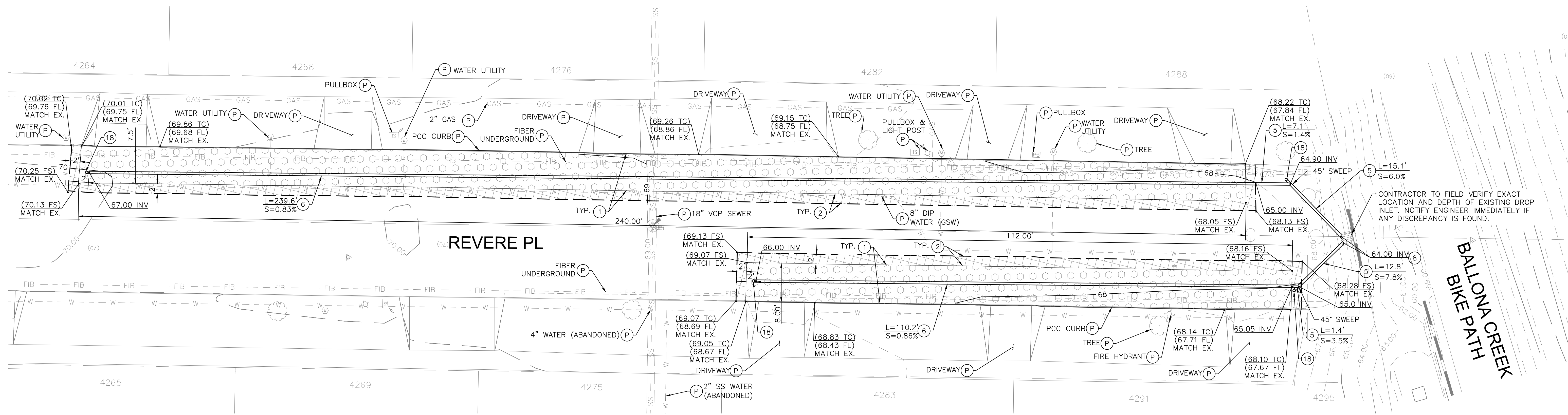
CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT	
CULVER CITY CITYWIDE STORMWATER CAPTURE	
SITE 4 JASMINE AVENUE	
APPROVED BY: JAVIER DELACRUZ, P.E.	SHEET C - 5
SENIOR CIVIL ENGINEER	DATE

	PREPARED BY 	1561 E. ORANGETHORPE AVE. SUITE 240 FULLERTON, GA 30831 TEL (714) 526-7500 www.cwecorp.com
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Drawing No.	NO.	REVISION	BY	APPR.	DATE

PLANS PREPARED UNDER THE SUPERVISION OF:  
KATHRYN (KATIE) HARREL, P.E.

Project Number: PZ497



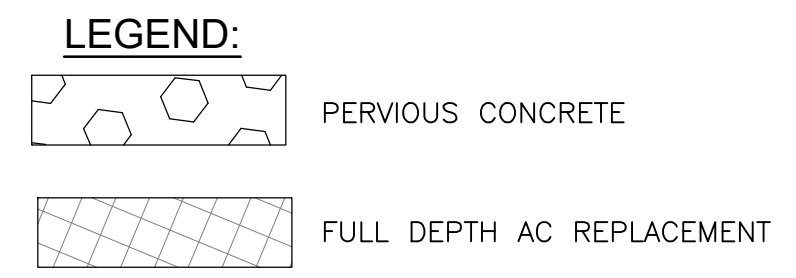
**PERVIOUS PAVEMENT  
REVERE PLACE**

**CONSTRUCTION NOTES:**

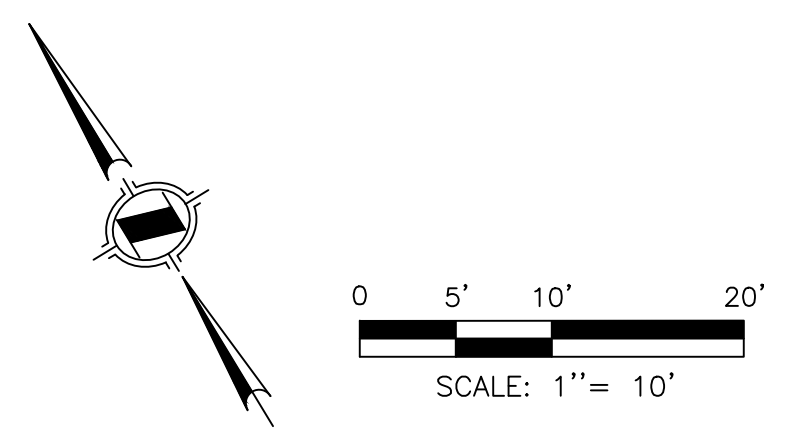
- (P) — PROTECT IN PLACE
- (1) — 6" PERVIOUS CONCRETE PAVEMENT OVER 30" OF 3/4" CRUSHED ROCK PER DETAIL 1 ON SHEET C-10
- (2) — FULL DEPTH AC REPLACEMENT TO MATCH EXISTING SITE CONDITIONS
- (5) — 6"Ø PVC STORM DRAIN AND BEDDING/TRENCH PER DETAIL 5 ON SHEET C-13
- (6) — 6"Ø PERFORATED PVC UNDERDRAIN SHOWN WITH ASSOCIATED BMP DETAIL
- (8) — CONNECT TO EXISTING CATCH BASIN PER SPPWC STD. PLAN 335-2
- (18) — STORM DRAIN CLEANOUT PER DETAIL 18 ON SHEET C-14

**NOTE TO CONTRACTOR:**

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IMPROVEMENT	AREA (SF)
PERVIOUS PAVEMENT	2720



CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT

CULVER CITY  
CITYWIDE STORMWATER CAPTURE

**SITE 5  
REVERE PLACE**

APPROVED BY: JAVIER DELACRUZ, P.E.

SHEET  
C-6

Senior Civil Engineer      DATE      Sheet 7 of 14 Sheets

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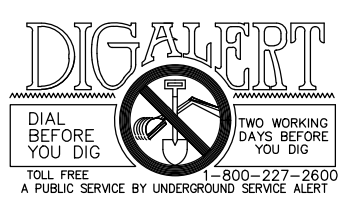
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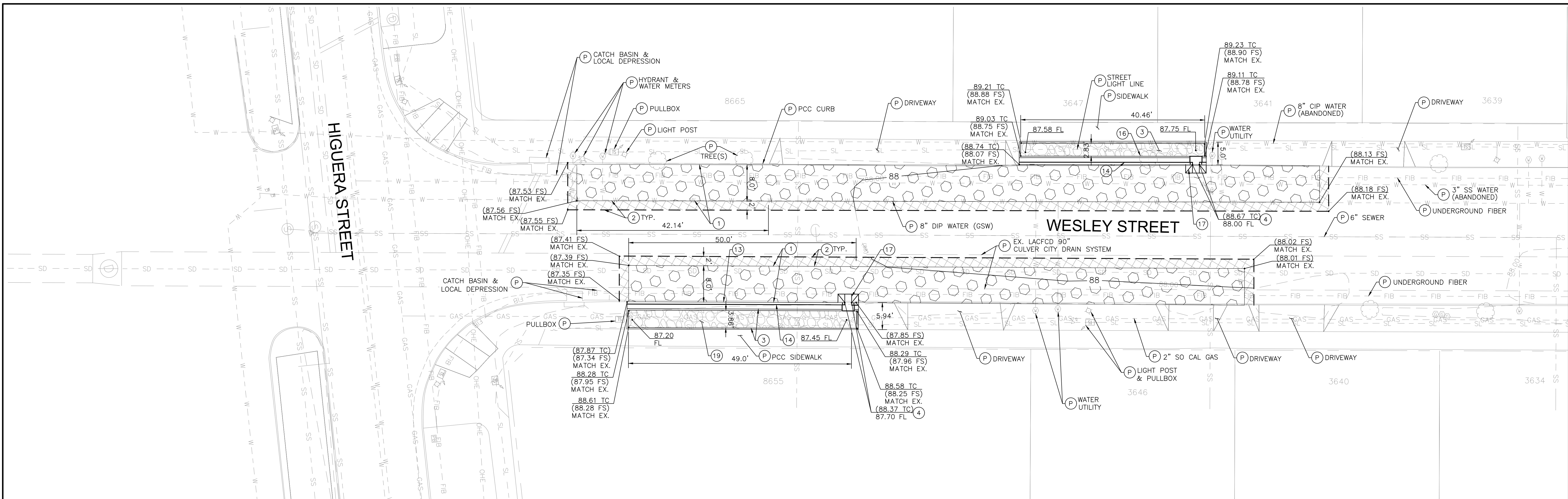
KATHRYN (KATIE) HARREL, P.E.

Project Number: PZ497

Drawing No.      NO.

NO.	REVISION	BY	APPR.	DATE



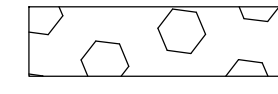
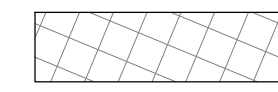



**BIORETENTION & PERVIOUS PAVEMENT  
WESLEY STREET**

**CONSTRUCTION NOTES:**

- (P) PROTECT IN PLACE
- ① 6" PERVIOUS CONCRETE PAVEMENT OVER 30" OF 3/4" CRUSHED ROCK PER DETAIL 1 ON SHEET C-10
- ② FULL DEPTH AC REPLACEMENT TO MATCH EXISTING SITE CONDITIONS
- ③ BIORETENTION PER DETAIL 3 ON SHEET C-11
- ④ CURB CUT & PCC SWALE INTO BIORETENTION PER DETAIL 4 ON SHEET C-11
- ⑭ PCC CURB PER SPPWC STD. PLAN 120-3, TYPE A1-6
- ⑯ REMOVE EXISTING TREE
- ⑰ LOCAL DEPRESSION PER DETAIL 17 ON SHEET C-11
- ⑱ REMOVE EXISTING BRICK PAVER IN PATH OF PROPOSED BIORETENTION

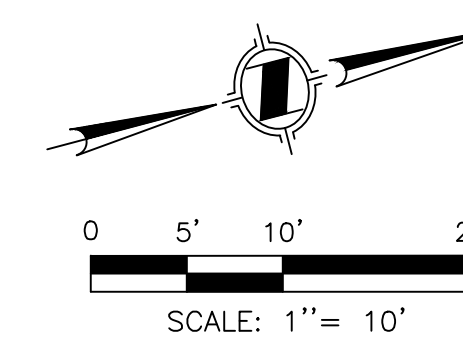
**LEGEND:**

-  PERVIOUS CONCRETE
-  FULL DEPTH AC REPLACEMENT
-  BIORETENTION

**NOTE TO CONTRACTOR:**

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IMPROVEMENT	AREA (SF)
PERVIOUS PAVEMENT	2375
BIORETENTION	345




CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT

CULVER CITY  
CITYWIDE STORMWATER CAPTURE

SITE 6  
WESLEY STREET



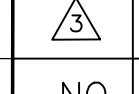
APPROVED BY: JAVIER DELACRUZ, P.E.		SHEET
SENIOR CIVIL ENGINEER	DATE	C - 7
		Sheet 8 of 14 Sheets

PREPARED BY



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PLANS PREPARED UNDER THE SUPERVISION OF:

KATHRYN (KATIE) HARREL, P.E.	
Project Number: PZ497	
Drawing No.	


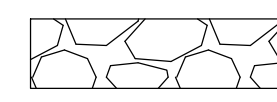
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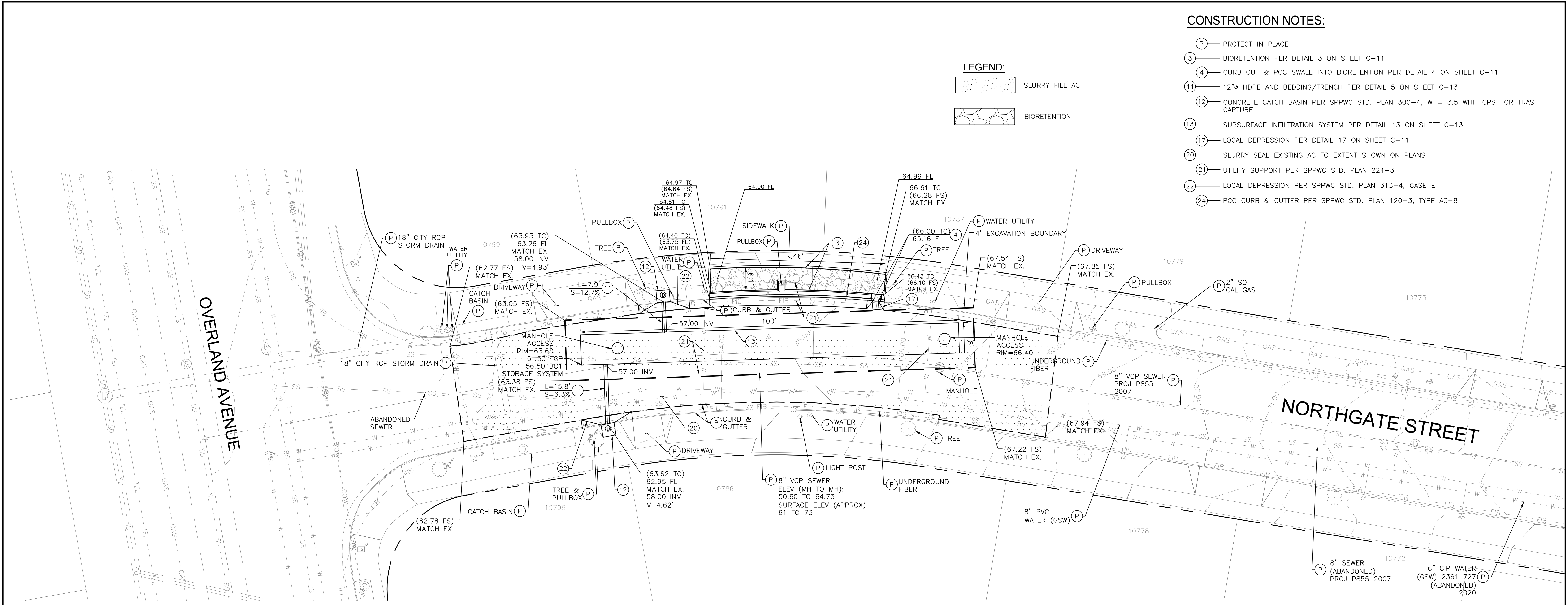


**CONSTRUCTION NOTES:**

- (P) — PROTECT IN PLACE
- (3) — BIORETENTION PER DETAIL 3 ON SHEET C-11
- (4) — CURB CUT & PCC SWALE INTO BIORETENTION PER DETAIL 4 ON SHEET C-11
- (11) — 12" HDPE AND BEDDING/TRENCH PER DETAIL 5 ON SHEET C-13
- (12) — CONCRETE CATCH BASIN PER SPPWC STD. PLAN 300-4, W = 3.5 WITH CPS FOR TRASH CAPTURE
- (13) — SUBSURFACE INFILTRATION SYSTEM PER DETAIL 13 ON SHEET C-13
- (17) — LOCAL DEPRESSION PER DETAIL 17 ON SHEET C-11
- (20) — SLURRY SEAL EXISTING AC TO EXTENT SHOWN ON PLANS
- (21) — UTILITY SUPPORT PER SPPWC STD. PLAN 224-3
- (22) — LOCAL DEPRESSION PER SPPWC STD. PLAN 313-4, CASE E
- (24) — PCC CURB & GUTTER PER SPPWC STD. PLAN 120-3, TYPE A3-8

**LEGEND:**

-  SLURRY FILL AC
-  BIORETENTION

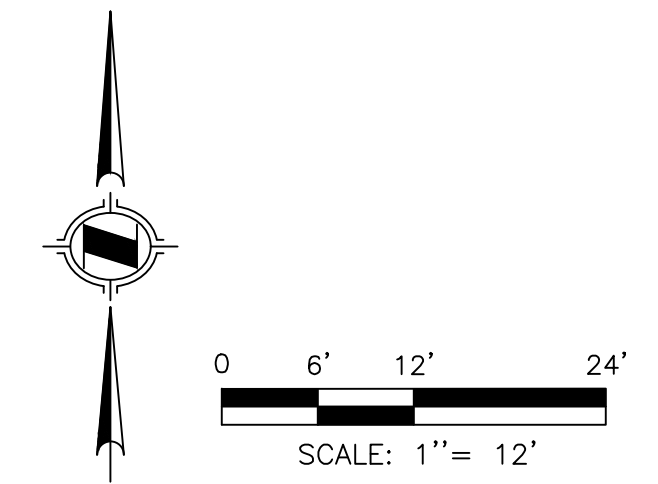


**SUBSURFACE INFILTRATION  
NORTHGATE ST**

**NOTE TO CONTRACTOR:**

1. TREE ROOT TRIMMING:  
THE CONTRACTOR SHALL COORDINATE WITH THE CITY ARBORIST FOR RECOMMENDATIONS RELATED TO THE HEALTH AND STABILITY OF ANY TREES PRIOR TO COMMENCING WORK.
2. STREETLIGHT AND FIBER UTILITIES ARE DRAWN SCHEMATICALLY. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS FOR ALL UTILITIES PRIOR TO WORK AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER.
3. SEVERAL SERVICE LATERALS ARE ANTICIPATED WITHIN THE PROJECT AREA AND ARE NOT DEPICTED IN THE PLANS. THE CONTRACTOR SHALL IDENTIFY THE LOCATIONS OF THE SERVICE LINES PRIOR TO WORK AND CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

IMPROVEMENT	VOL./AREA
SUBSURFACE INFILTRATION	3600 CF
BIORETENTION	280 SF



CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT

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CULVER CITY  
CITYWIDE STORMWATER CAPTURE

---

SITE 7  
NORTHGATE STREET


---

APPROVED BY: JAVIER DELACRUZ, P.E. SHEET  
C-8

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SENIOR CIVIL ENGINEER DATE Sheet 9 of 14 Sheets

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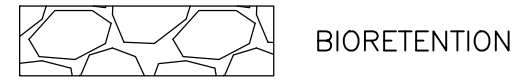
Project Number: PZ497

Drawing No. NO.

NO.	REVISION	BY	APPR.	DATE



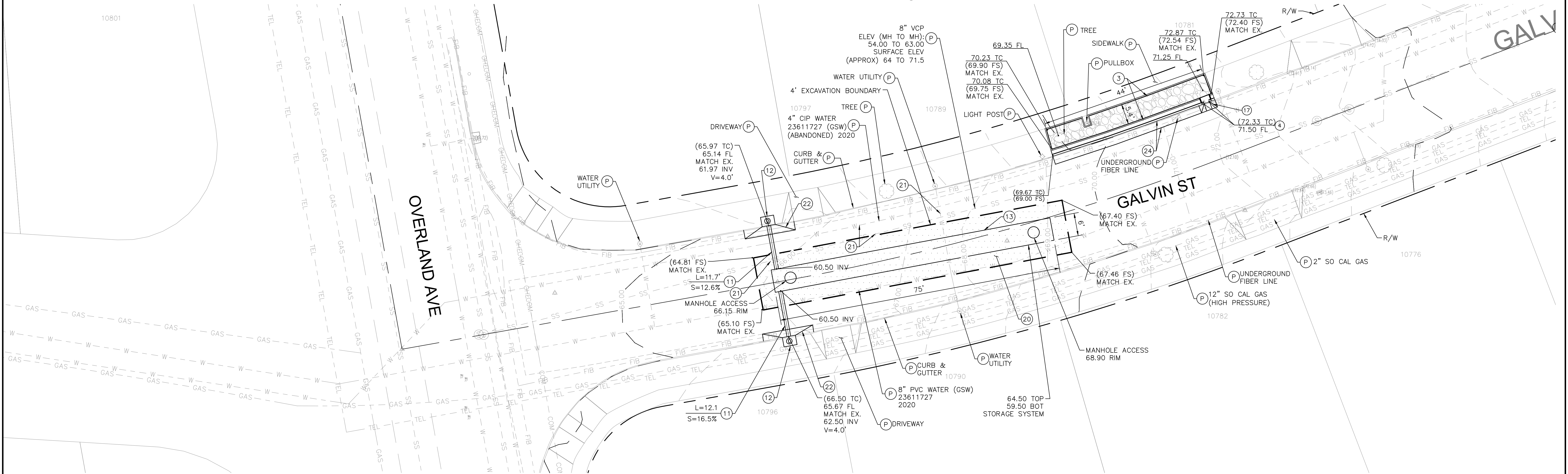
**LEGEND:**



BIORETENTION

**CONSTRUCTION NOTES:**

- (P) PROTECT IN PLACE
- (3) BIORETENTION PER DETAIL 3 ON SHEET C-11
- (4) CURB CUT & PCC SWALE INTO BIORETENTION PER DETAIL 4 ON SHEET C-11
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- (21) UTILITY SUPPORT PER SPPWC STD. PLAN 224-3
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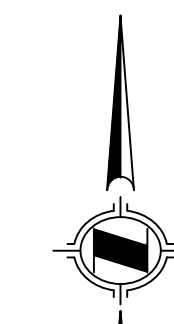


**SUBSURFACE INFILTRATION  
GALVIN ST**

**NOTE TO CONTRACTOR:**

1. TREE ROOT TRIMMING:  
THE CONTRACTOR SHALL COORDINATE WITH THE CITY ARBORIST FOR RECOMMENDATIONS RELATED TO THE HEALTH AND STABILITY OF ANY TREES PRIOR TO COMMENCING WORK.
2. STREETLIGHT AND FIBER UTILITIES ARE DRAWN SCHEMATICALLY. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS FOR ALL UTILITIES PRIOR TO WORK AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER.
3. SEVERAL SERVICE LATERALS ARE ANTICIPATED WITHIN THE PROJECT AREA AND ARE NOT DEPICTED IN THE PLANS. THE CONTRACTOR SHALL IDENTIFY THE LOCATIONS OF THE SERVICE LINES PRIOR TO WORK AND CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

IMPROVEMENT	VOL./AREA
SUBSURFACE INFILTRATION	2025 CF
BIORETENTION	240 SF



CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT

CULVER CITY  
CITYWIDE STORMWATER CAPTURE

SITE 8  
GALVIN STREET

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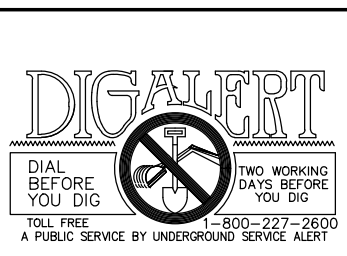
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C-9

SENIOR CIVIL ENGINEER

DATE

Sheet 10 of 14 Sheets

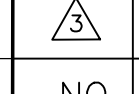


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PLANS PREPARED UNDER THE SUPERVISION OF:  
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Drawing No.



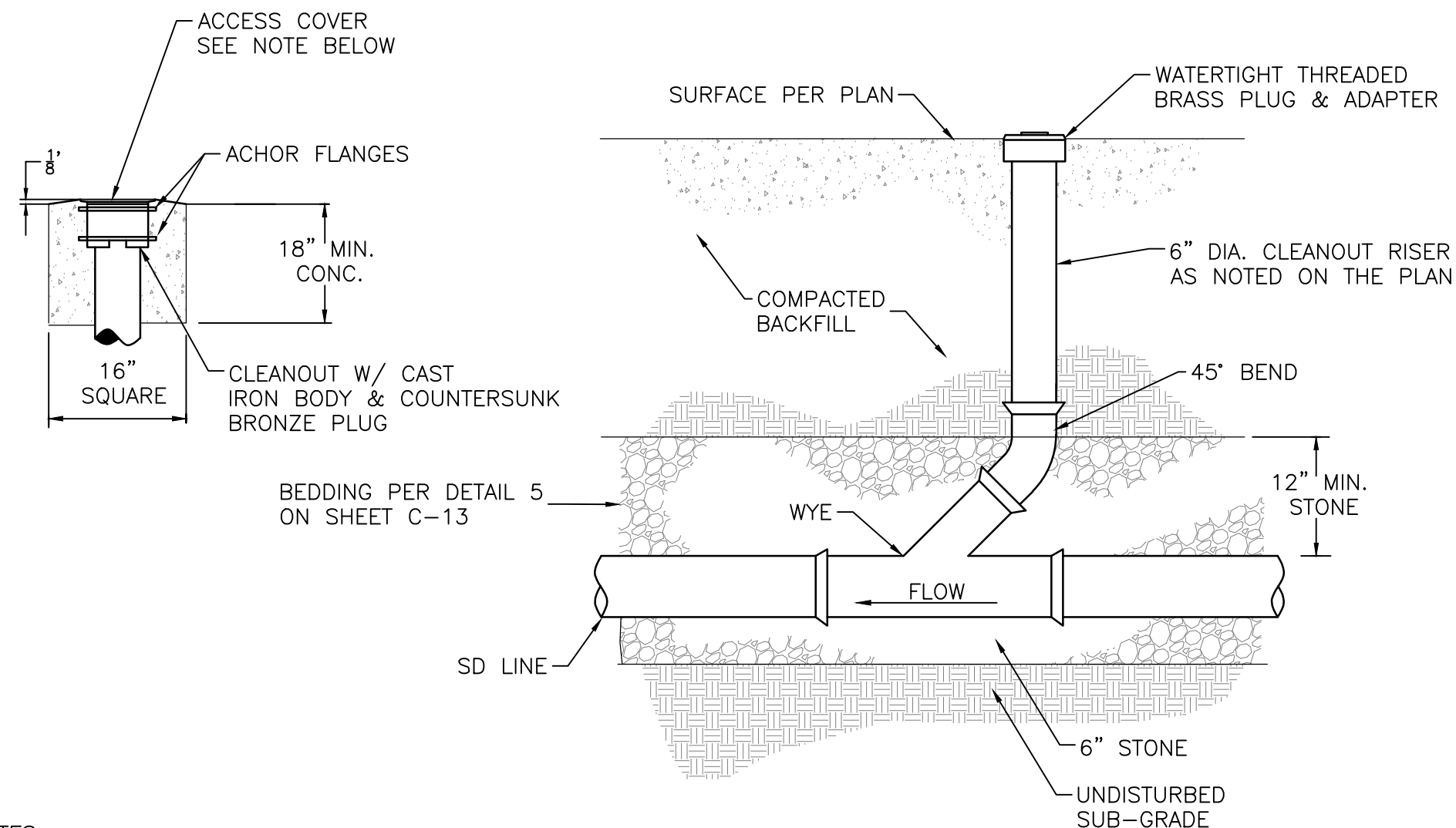
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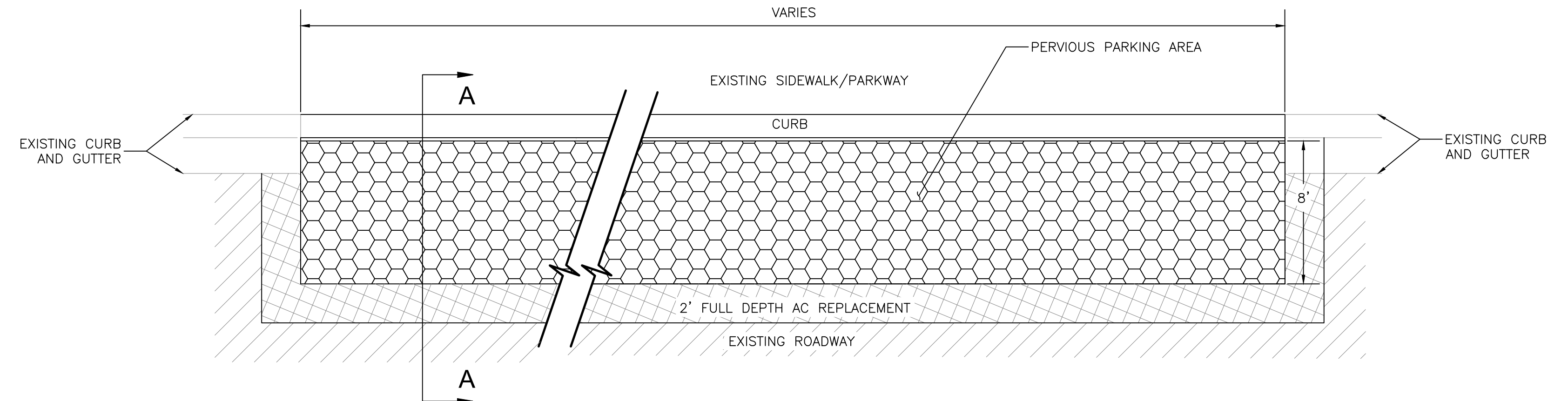
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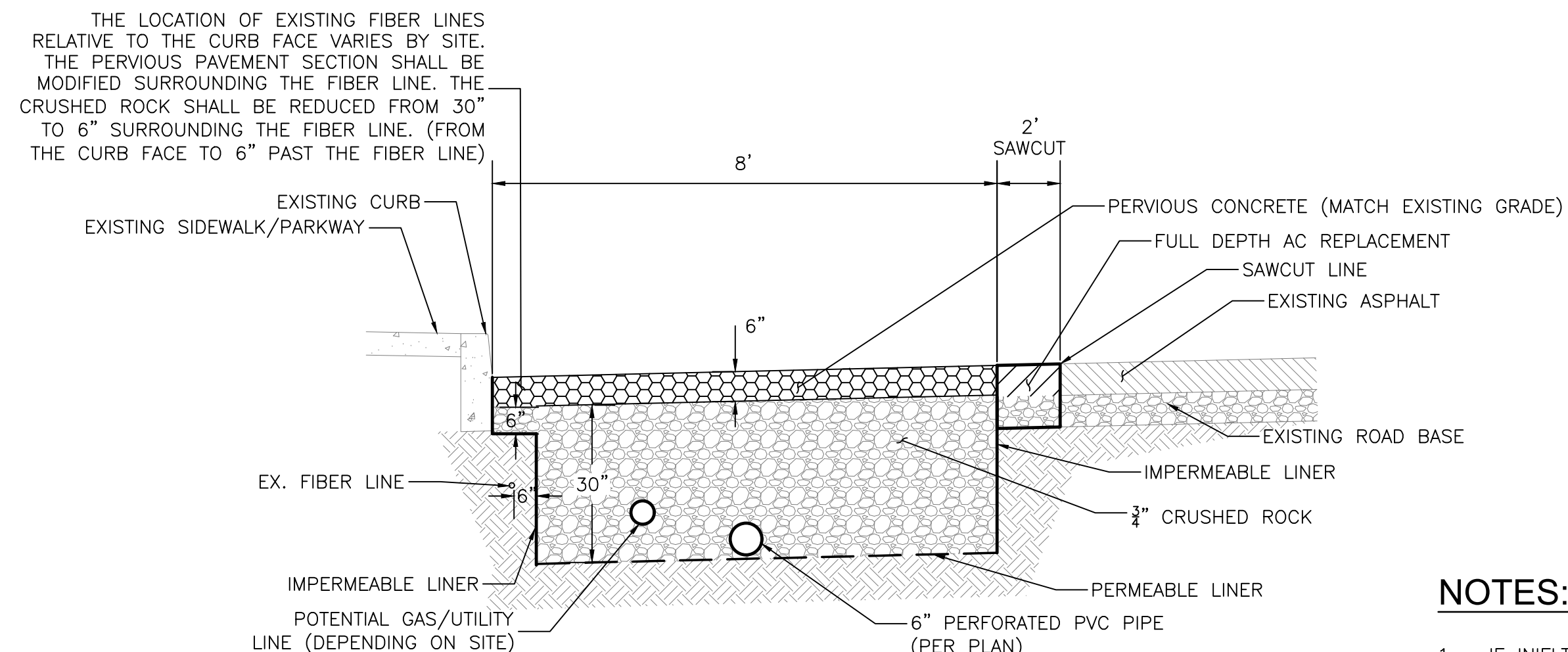


- NOTES:**
1. WATTS SERIES CO-300-MF EPOXY COATED CAST IRON ACCESS HOUSING WITH TWO FIXED ANCHOR FLANGES, EXTRA HEAVY DUTY DUCTILE ACCESS COVER AND 6-1/2" CLEAR BOTTOM ACCESS OR AGENCY APPROVED EQUAL (MUST BE TRAFFIC RATED).
  2. CONTRACTOR TO FIELD VERIFY ALL EXISTING INVERT ELEVATION & NOTIFY ENGINEER OR OWNER OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
  3. CONTRACTOR SHALL FIELD VERIFY PROPOSED/ EXISTING UTILITY CROSSING & NOTIFY ENGINEER OR OWNER OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.

**SD CLEANOUT  
DETAIL 18  
NOT TO SCALE**

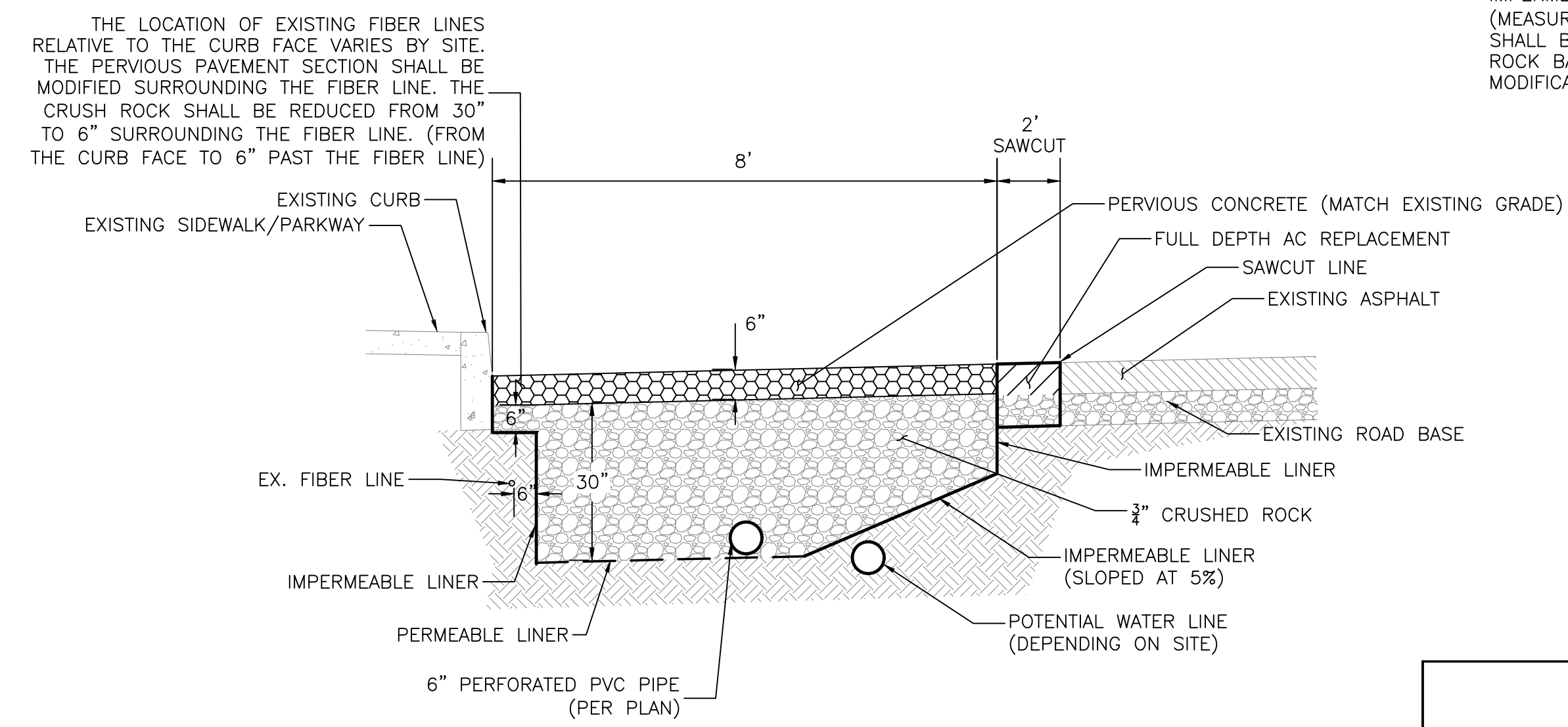


**PERVIOUS PAVEMENT PLAN VIEW  
DETAIL 1  
NOT TO SCALE**



**PERVIOUS PAVEMENT GENERAL DETAIL  
DETAIL 1  
NOT TO SCALE**

- NOTES:**
1. IF INFILTRATION IS NOT FEASIBLE, ONE OR MORE UNDERDRAIN MAY BE ADDED TO THE CROSS SECTION, SUCH THAT TREATED RUNOFF CAN BE COLLECTED AND DISCHARGED DOWNSTREAM. UNDERDRAINS WILL REQUIRE A CONNECTION TO THE NEAREST DOWNSTREAM CATCH BASIN, SHOWN IN THE SHEETS FOR EACH SPECIFIC LOCATION.
  2. UTILITIES (OTHER THAN FIBER AND ACTIVE WATER LINES) MAY BE LOCATED WITHIN THE PERVIOUS PAVEMENT ROCK BASE, AS DEPICTED IN THE GENERAL DETAIL ABOVE. UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED IN THE PLANS.
  3. IF AN ACTIVE WATER LINE WILL BE LOCATED WITHIN THE ROCK BASE, THEN THE ROCK BASE MUST BE MODIFIED AS DEPICTED HEREON. AN IMPERMEABLE LINER MUST BE PLACED 1' AWAY FROM THE WATER LINE (MEASURED PERPENDICULAR TO THE WATER LINE) AND THE ROCK BASE SHALL BE REDUCED, SUCH THAT THE WATER LINE IS NOT WITHIN THE ROCK BASE. ABANDONED WATER LINES DO NOT REQUIRE THE MODIFICATIONS DESCRIBED IN THIS NOTE.



**PERVIOUS PAVEMENT DETAIL WITH WATER LINE  
DETAIL 1  
NOT TO SCALE**

**DIGALERT**  
DIAL BEFORE YOU DIG  
CALL 800-227-2600  
A PUBLIC SERVICE BY UNDERGROUND SERVICE UTILITIES

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PLANS PREPARED UNDER THE SUPERVISION OF:  
KATHRYN (KATIE) HARREL, P.E.

Project Number: PZ497

Drawing No. NO.

NO.	REVISION	BY	APPR.	DATE

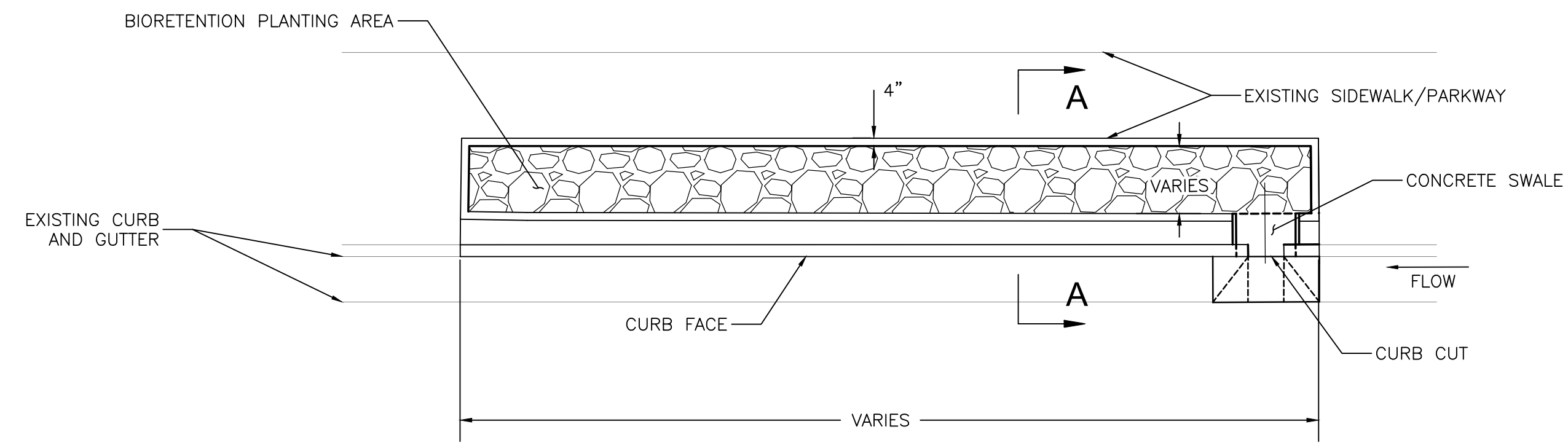
**CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT**

**CULVER CITY  
CITYWIDE STORMWATER CAPTURE**

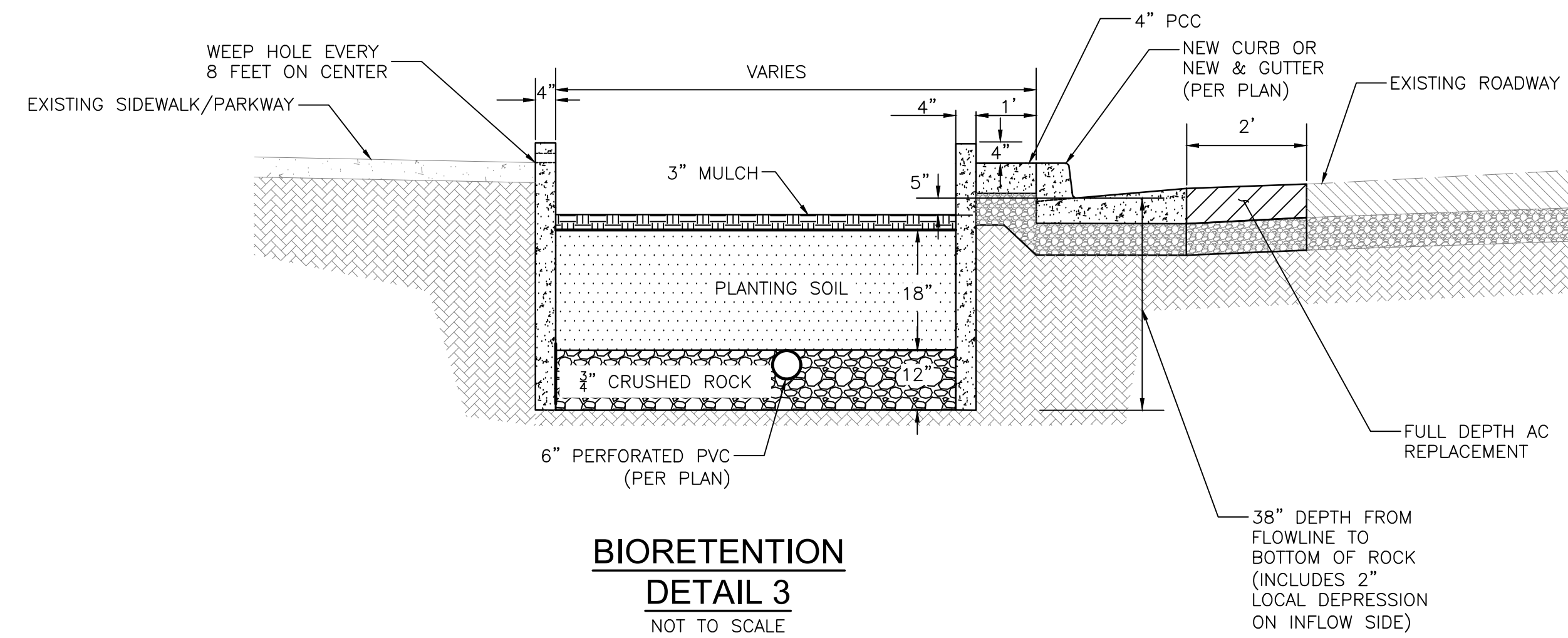
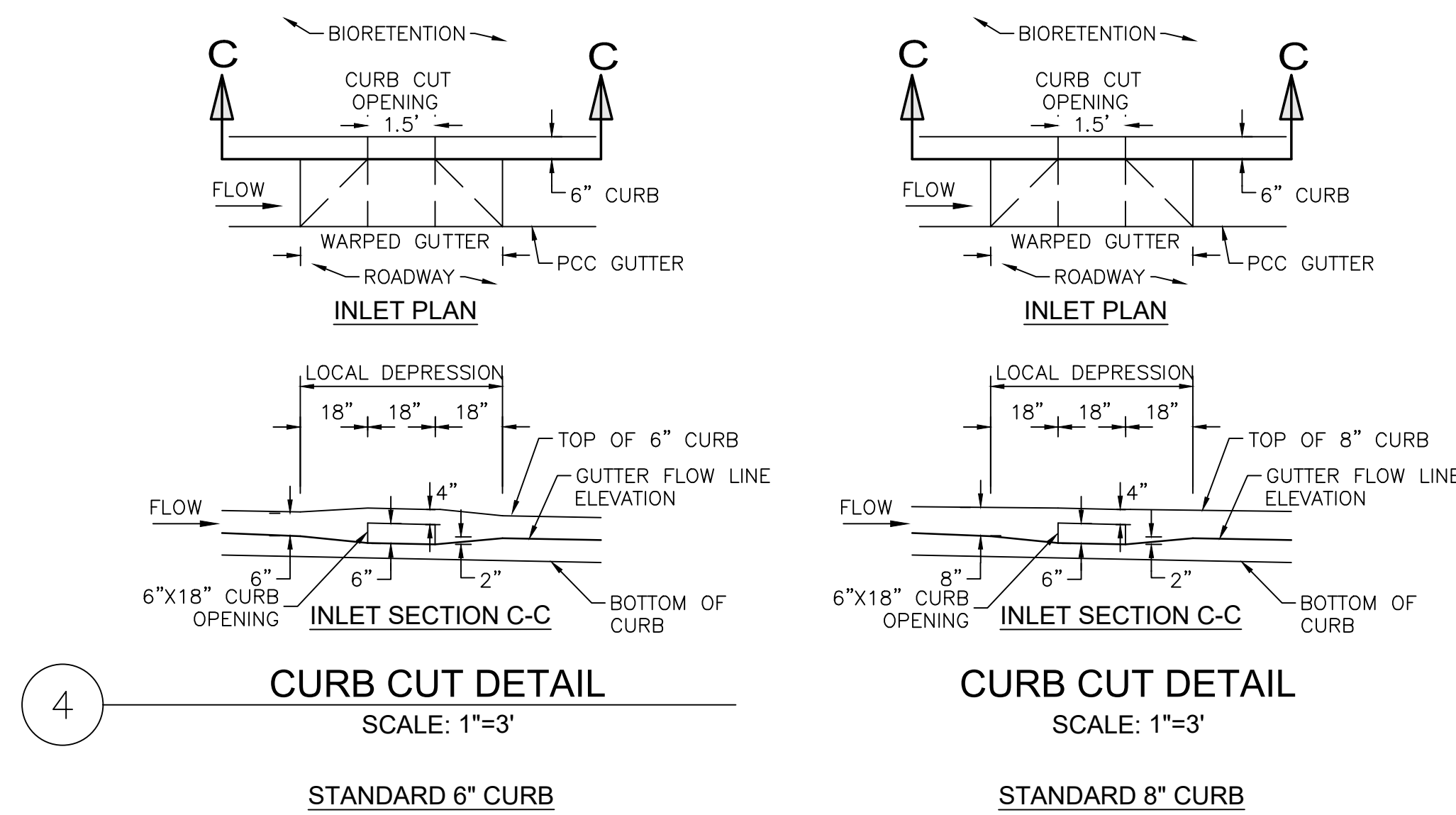
**PERVIOUS PAVEMENT**

APPROVED BY: JAVIER DELACRUZ, P.E.  
SENIOR CIVIL ENGINEER

SHEET  
**C-10**  
Sheet 11 of 14 Sheets



**BIORETENTION  
PLAN VIEW**  
NOT TO SCALE



**BIORETENTION  
DETAIL 3**  
NOT TO SCALE

**NOTES:**

1. IF INFILTRATION IS NOT FEASIBLE, ONE OR MORE UNDERDRAIN MAY BE ADDED TO THE CROSS SECTION, SUCH THAT TREATED RUNOFF CAN BE COLLECTED AND DISCHARGED DOWNSTREAM. UNDERDRAINS WILL REQUIRE A CONNECTION TO THE NEAREST DOWNSTREAM CATCH BASIN, AS SHOWN IN THE SHEETS FOR EACH SPECIFIC LOCATION.
2. UTILITIES (OTHER THAN FIBER AND ACTIVE WATER LINE) MAY BE LOCATED WITHIN THE BIORETENTION SECTION. UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED IN THE PLANS.

CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT

CULVER CITY  
CITYWIDE STORMWATER CAPTURE

BIORETENTION

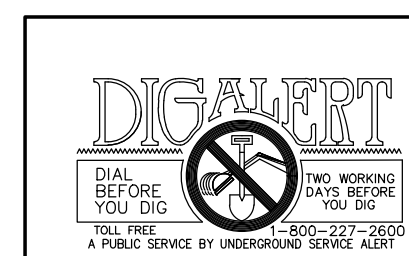
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SHEET  
C-11

SENIOR CIVIL ENGINEER

DATE

Sheet 12 of 14 Sheets



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PLANS PREPARED UNDER THE SUPERVISION OF:

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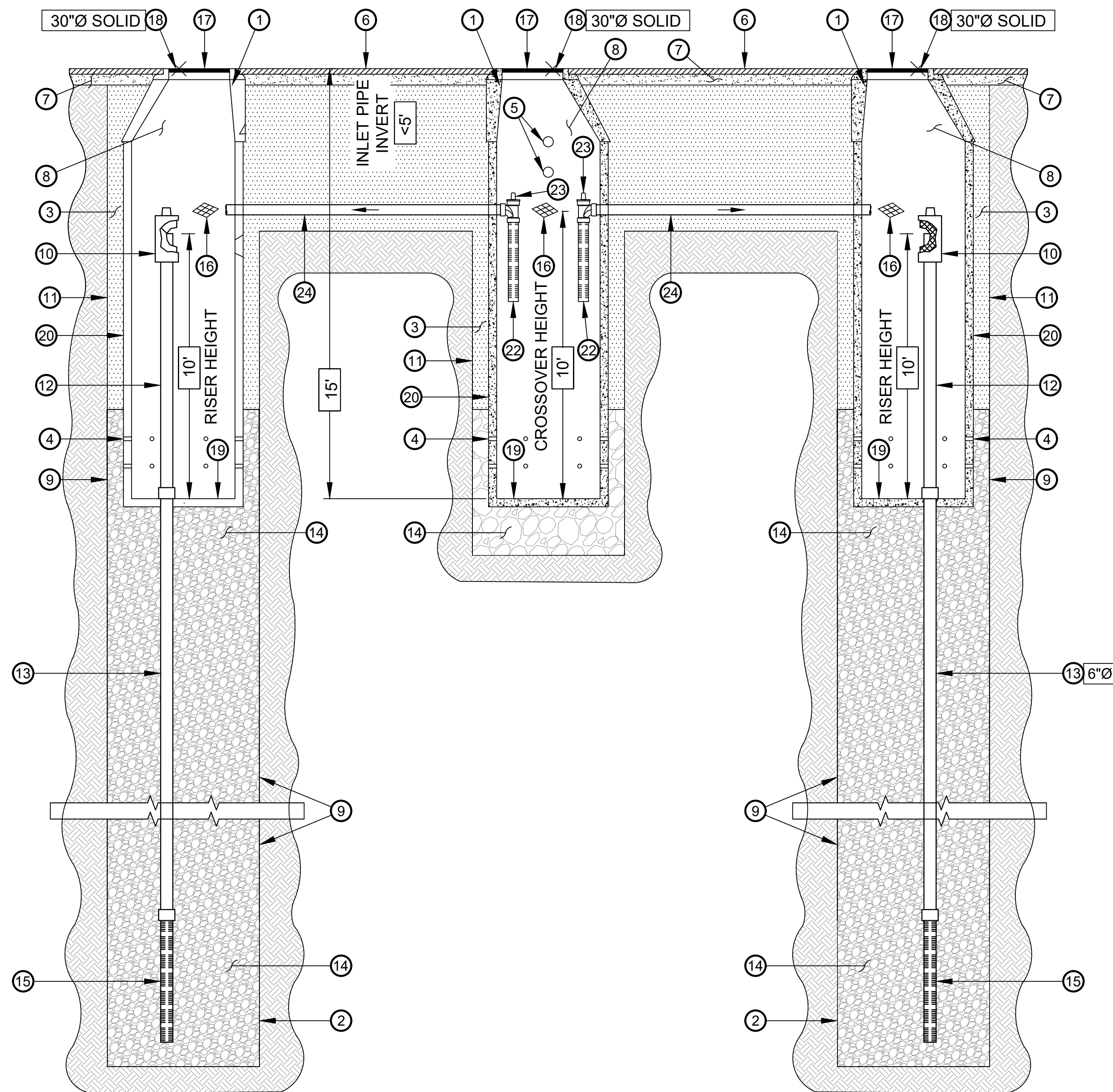
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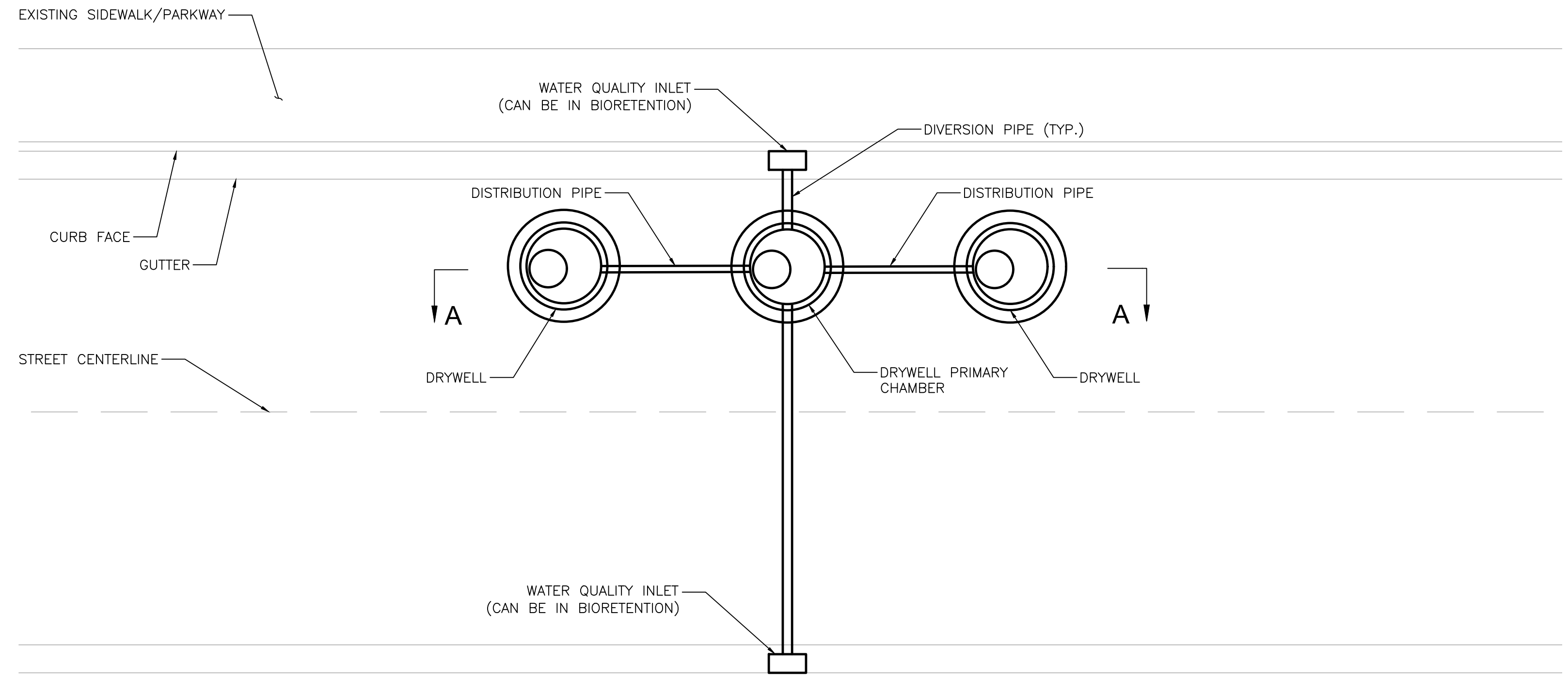
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DATE



**NOTES:**

1. A MINIMUM OF 10 FEET OF SEPARATION BETWEEN THE INFILTRATION SYSTEM INVERT AND GROUNDWATER WILL BE MAINTAINED. GROUNDWATER WAS ENCOUNTERED 30 FEET BELOW THE SURFACE ON JASMINE PLACE (REFER TO GEOTECHNICAL REPORT)



**DRYWELLS  
PLAN VIEW**  
NOT TO SCALE

**ITEM NUMBERS**

1. **MANHOLE CONE** - MODIFIED FLAT BOTTOM.
2. **MIN. 6" Ø DRILLED SHAFT.**
3. **STABILIZED BACKFILL** - TWO-SACK SLURRY MIX.
4. **6 PERFORATIONS MINIMUM PER FOOT, 2 ROWS MINIMUM.**
5. **INLET PIPE/OUTLET PIPE** (BY OTHERS). SEE SEPARATE PLAN FOR INVERT ELEVATIONS.
6. **GRADED BASIN OR PAVING** (BY OTHERS).
7. **COMPACTED BASE MATERIAL**, IF REQUIRED (BY OTHERS).
8. **FREEBOARD DEPTH VARIES** WITH INLET PIPE ELEVATION. INCREASE SETTLING CHAMBER DEPTH AS NEEDED TO MAINTAIN ALL INLET PIPE ELEVATIONS ABOVE RISER PIPE.
9. **NON-WOVEN GEOTEXTILE SLEEVE** - MIRAFI 140 NL. MIN. 6 FT Ø. HELD APPROX. 10 FEET OFF THE BOTTOM OF EXCAVATION.
10. **PUREFLO® DEBRIS SHIELD** - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL 0.265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. **FUSION BONDED EPOXY COATED.**
11. **MIN. 6" Ø DRILLED SHAFT.**
12. **RISER PIPE** - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
13. **DRAINAGE PIPE** - ADS HIGHWAY GRADE OR SCH. 40 PVC WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS. DIAMETER AS NOTED.
14. **ROCK** - WASHED, SIZED BETWEEN 3/8" AND 1-1/2".
15. **FLOFAST® DRAINAGE SCREEN** - SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH MIN. 32 SLOTS PER ROW/FT. OVERALL LENGTH VARIES, UP TO 120" WITH TRI-B COUPLER.
16. **ABSORBENT** - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY. TYPICAL, 2 PER CHAMBER.
17. **FABRIC SEAL** - U.V. RESISTANT GEOTEXTILE - **TO BE REMOVED BY CUSTOMER** AT PROJECT COMPLETION. GRATED ONLY.
18. **BOLTED RING & GRATE/COVER** - DIAMETER & TYPE AS SHOWN. CLEAN CAST IRON WITH WORDING "STORMWATER ONLY" IN RAISED LETTERS. BOLTED IN 2 LOCATIONS AND SECURED TO CONE WITH MORTAR. RIM ELEVATION ±0.02' OF PLANS.
19. **BASE SEAL** - CONCRETE SLURRY.
20. **PRE-CAST LINER** - 4000 PSI CONCRETE 48" ID. X 54" ID. CENTER IN HOLE AND ALIGN SECTIONS TO MAXIMIZE BEARING SURFACE.
21. NOT USED.
22. **INTAKE SCREEN** - 6"Ø SCH. 40 PVC 0.120" MODIFIED SLOTTED WELL SCREEN WITH MIN. 32 SLOTS PER ROW/FT. 60" OVERALL LENGTH WITH TRI-C END CAP.
23. **VENTED ANTI-SIPHON INTAKE.**
24. **CONNECTOR PIPE** - 6" Ø SCH. 40 PVC.

**MODIFIED MAXWELL® PLUS DRAINAGE SYSTEM  
OR APPROVED EQUAL**

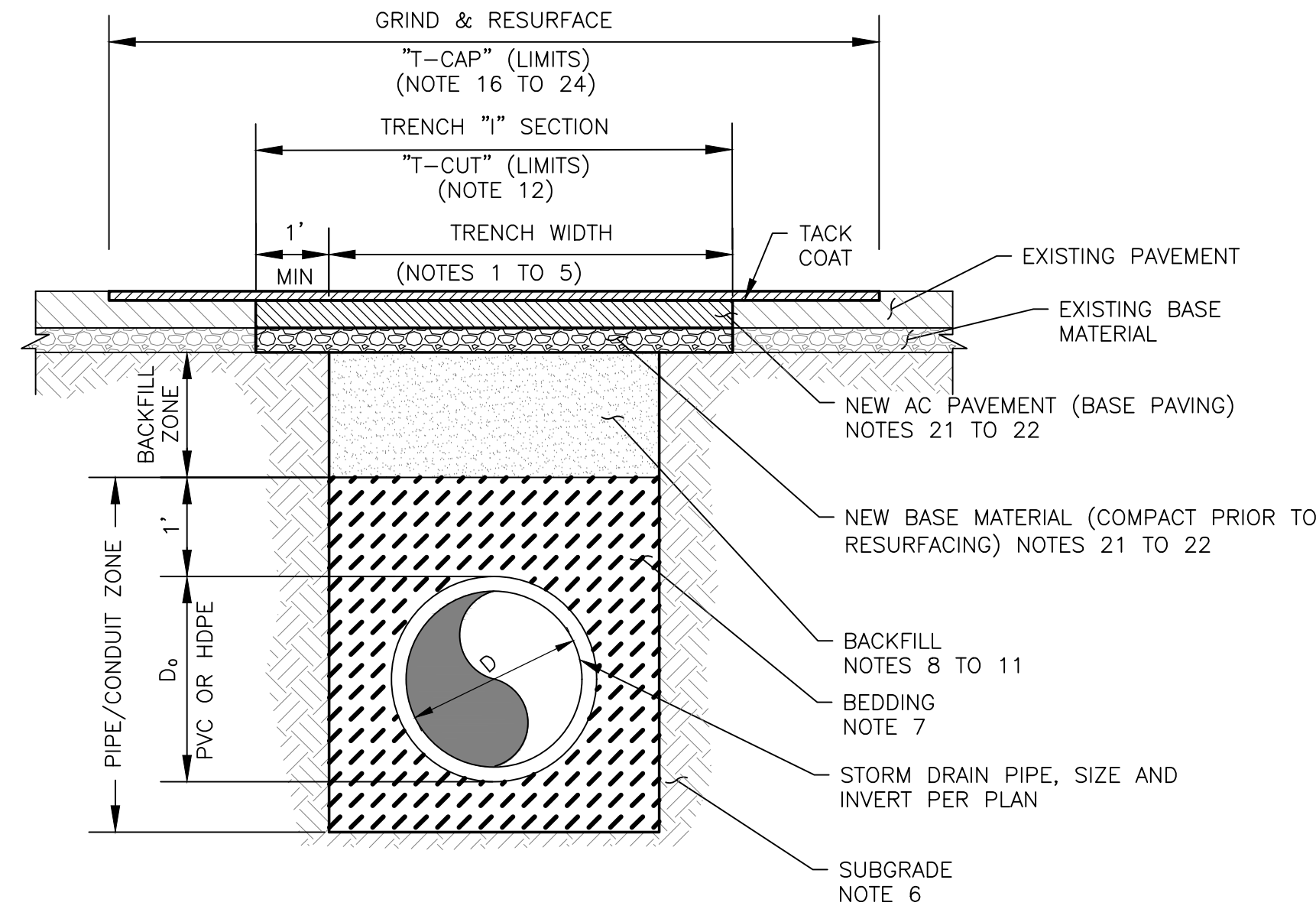
NOT TO SCALE

CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT	
CULVER CITY CITYWIDE STORMWATER CAPTURE	
DRYWELLS	
APPROVED BY: JAVIER DELACRUZ, P.E. SENIOR CIVIL ENGINEER	SHEET C-12 Sheet 13 of 14 Sheets

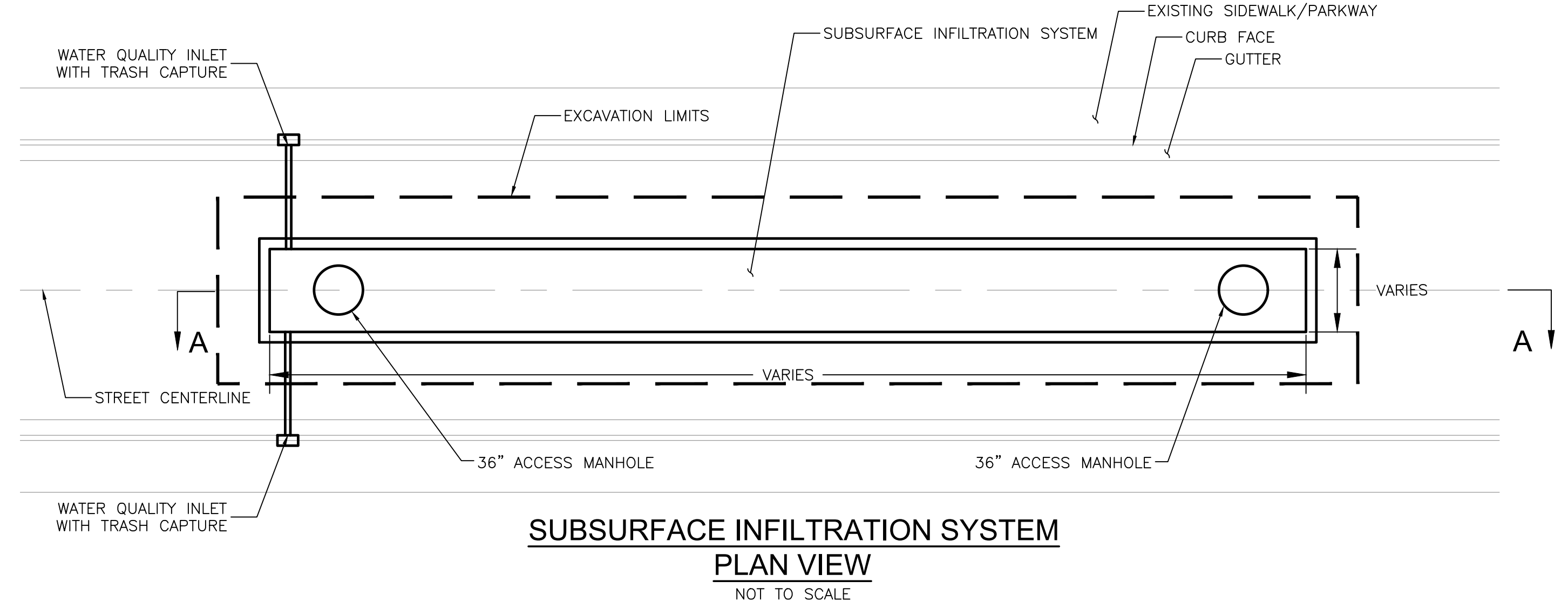
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PLANS PREPARED UNDER THE SUPERVISION OF: KATHRYN (KATIE) HARREL, P.E.	△				
Project Number: PZ497	△				
Drawing No.	NO.				

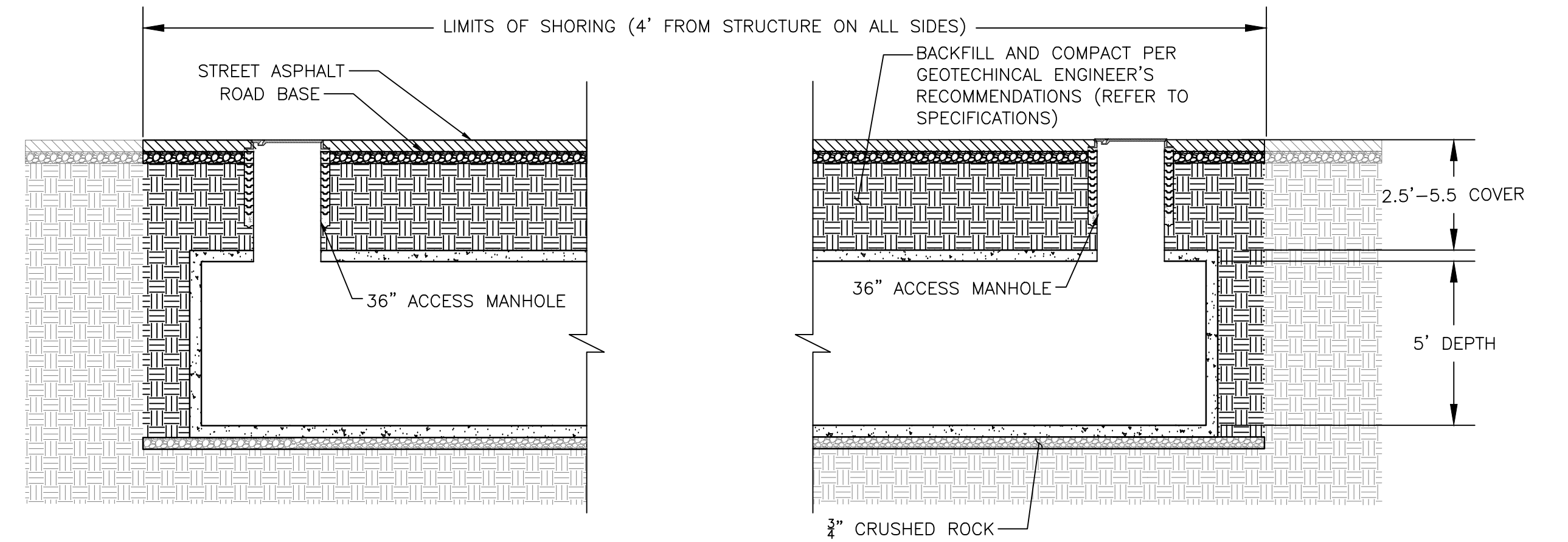
REVISION	BY	APPR.	DATE



**DETAIL 5**  
**T-TRENCH AND AC PAVING RESTORATION**  
NOT TO SCALE



**SUBSURFACE INFILTRATION SYSTEM**  
**PLAN VIEW**  
NOT TO SCALE



**SUBSURFACE INFILTRATION SYSTEM**  
**DETAIL 13**  
NOT TO SCALE

**NOTES:**

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) "GREENBOOK".

**LIMITS OF REMOVALS, TRENCH WIDTH:**

- ALL PAVEMENT REMOVED SHALL HAVE STRAIGHT EDGES. CUTS SHALL BE MADE TO A MINIMUM DEPTH OF ONE AND A HALF (1-1/2) INCHES. ALL CUTS SHALL BE NEAT, STRAIGHT, VERTICAL CUTS WITH NO BROKEN EDGES.
- ALL LONGITUDINAL PAVEMENT CUTS SHALL BE UNINTERRUPTED APPROXIMATELY PARALLEL TO THE TRENCH (MAX. 1:6 LONGITUDINAL VARIANCE).
- IF A SAW CUT IN PAVEMENT FALLS WITHIN 1 FOOT OF AN EXISTING CURB, GUTTER, OR EDGE OF PAVEMENT, THE ADDITIONAL PAVEMENT SHALL BE REMOVED AND RECONSTRUCTED.
- WHEN SAW CUTTING PAVEMENT, THE MAXIMUM OVERRUN ALLOWED FOR ANY SAW CUT BEYOND THE BOUNDARY REMOVAL LIMITS OF EXISTING PAVEMENT SHALL BE 2 INCHES.
- TRENCH WIDTH SHALL BE MINIMUM 24 INCHES, UNLESS SLURRY BACKFILL AND BEDDING IS USED, IN WHICH CASE MINIMUM SHALL BE 4 INCHES. MINIMUM 3 INCH SEPARATION SHALL BE MAINTAINED BETWEEN ALL CONDUITS, PIPES, AND TRENCH WALLS. IF SLURRY BEDDING MATERIAL IS USED, 1 INCH IS ACCEPTABLE IN A SINGLE LAYER INSTALLATION, OTHERWISE 2 INCH SEPARATION IS REQUIRED. UNDERCUTTING TRENCH WALLS TO ACQUIRE CLEARANCES IS NOT PERMITTED.

**BEDDING:**

- BEDDING MATERIAL SHALL BE PLACED ON FIRM AND UNYIELDING SUBGRADE PER GREENBOOK SECTION 306. SOFT, SPONGY, UNSTABLE, UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED.
- BEDDING SHALL CONFORM TO GREENBOOK REQUIREMENTS AND OTHER APPLICABLE STANDARDS.

**BACKFILL:**

- EXCAVATIONS SHALL BE BACKFILLED WITH AN APPROVED SLURRY MIX, CLSM, CMB, OR CAB. NATIVE SOIL MAY ONLY BE USED WITH CITY ENGINEER'S APPROVAL. CMB, CAB, SOIL SHALL BE COMPACTED TO 90% RELATIVE DENSITY. CMB, CAB SHALL BE WELL GRADED AND HANDLED IN A MANNER TO PREVENT SEGREGATION BY PARTICLE SIZE. SOIL TESTING MAY BE REQUIRED TO BE PROVIDED TO THE FIELD INSPECTOR ON A CASE-BY-CASE BASIS.
- BACKFILL SLURRY MATERIAL SHALL BE PROPERLY CONSOLIDATED. SLURRY MATERIAL FOR TRENCHES DEEPER THAN 5 FEET AND/OR NARROWER THAN 12 INCHES MUST BE CONSOLIDATED WITH VIBRATION.
- BACKFILL MATERIAL SHALL BE MADE SMOOTH AND LEVEL BEFORE PLACING BASE AND PAVEMENT.
- JETTING IS NOT AN APPROVED DENSIFICATION METHOD.

**TRENCH "T" SECTION ("T-CUT"):**

- AFTER THE EXCAVATION HAS BEEN BACKFILLED, THE EXISTING PAVEMENT SHALL BE REMOVED TO A LINE AT LEAST 12-INCHES BACK OF THE FIRM BANKS OF THE TRENCH AND THIS AREA ADJACENT TO THE TRENCH SHALL BE COMPACTED TO 95% RELATIVE DENSITY ("T-CUT"). EXISTING CMB OR CAB BASE MATERIAL IN THIS AREA DOES NOT NEED TO BE REMOVED. "T-CUT" IS NOT REQUIRED IF PROPER SLURRY BACKFILL IS USED, UNLESS UNDERMINING OF ADJACENT PAVEMENT IS PRESENT. IF SLURRY TRENCH WIDTH IS LESS THAN 12 INCHES, EXISTING PAVEMENT SHALL BE REMOVED TO PROVIDE AT LEAST A 12 INCH WIDE OPENING FOR PROPER COMPACTATION OF THE BASE MATERIAL.
- NEW BASE MATERIAL OF CMB, OR CAB, SHALL MATCH THE EXISTING BASE THICKNESS, OR 4-INCHES, WHICHEVER IS GREATER. COMPACT TO 95% RELATIVE DENSITY. THIS REQUIREMENT SHALL ALSO APPLY OVER SLURRY BACKFILLS UNLESS OTHERWISE SPECIFIED IN THE PERMIT.
- NEW ASPHALT CONCRETE SECTION SHALL MATCH EXISTING PAVEMENT THICKNESS PLUS AN ADDITIONAL INCH, OR FULL DEPTH AC PLUS AN ADDITIONAL INCH.
- ASPHALT CONCRETE PAVING WILL OCCUR NO SOONER THAN 42 HOURS AFTER SLURRY BACKFILL OF TRENCH.

**GRIND AND RESURFACE ("T-CAP"):**

WITHIN 30 CALENDAR DAYS AFTER BACKFILLING, ASPHALT CONCRETE SHALL BE COLD MILLED AND RESURFACED AS FOLLOWS:

- EXISTING ASPHALT CONCRETE SHALL BE GROUND DOWN ONE AND ONE HALF (1-1/2) INCHES, OR ONE HALF THE EXISTING PAVEMENT THICKNESS, WHICHEVER IS LESS, TO THE "T-CAP" LIMITS.
- WHERE POSSIBLE, "T-CAP" LIMITS SHALL BE FROM DETAIL 1, "EXAMPLES OF GRIND AND RESURFACE "T-CAP" LIMITS". "T-CAP" IS NOT REQUIRED FOR SERVICE CONNECTIONS IN STREETS THAT HAVE NOT BEEN RESURFACED WITHIN THE PAST 25 YEARS AND DO NOT IMPACT BIKE LANES.
- "T-CAP" LIMITS SHALL EXTEND AT LEAST 2 FT BEYOND THE TRENCH "T-CUT" LIMITS. MINIMUM "T-CAP" DIMENSIONS SHALL BE 5 FT X 5 FT.
- "T-CUT" AND CORRESPONDING "T-CAP" (AS APPLICABLE) IS REQUIRED FOR ALL EXCAVATIONS WITH A SURFACE AREA OF 2 SQ. FT OR GREATER.
- WHERE LIMITS OF "T-CUTS", "T-CAPS", POT HOLES OR CORED HOLES ARE WITHIN 4FT OF EACH OTHER, THE PAVEMENT SURFACE RESTORATION SHALL BE COMBINED, BLENDED AND SQUARED USING "T-CAP" TO ENCOMPASS ALL AREAS IN BETWEEN AS SHOWN IN THE DETAIL. "T-CAP" LIMITS FOR POT HOLES AND CORE HOLES SHALL EXTEND A MINIMUM OF 1-FOOT ALL AROUND BEYOND THE HOLES.
- IMPACTED BIKE LANES - "T-CAP" LIMITS SHALL FULLY ENCOMPASS ANY BIKE LANE IMPACTED BY THE TRENCH, AND SHALL HAVE A LENGTH THAT EXTENDS AT LEAST 2 FEET BEYOND THE ASPHALT REMOVAL LIMITS IN THE DIRECTION OF BIKE TRAFFIC.
- WHEN THE "T-CAP" LIMIT IS WITHIN 2 FEET OR LESS FROM A CURB OR GUTTER, THE "T-CAP" LIMIT SHALL EXTEND TO THE CURB OR GUTTER.
- PAVEMENT SHALL BE LEVEL WITH ADJACENT ROADWAY ELEVATIONS AND SHALL PROVIDE A SMOOTH SURFACE PER GREENBOOK SECTION 302-5 AND SUBJECT TO ACCEPTANCE BY THE CITY PUBLIC WORKS INSPECTOR.
- "T-CAP" AND PERMANENT BASE PAVING MAY BE PERFORMED ON THE SAME DAY WHEN FEASIBLE.

**IDENTIFICATION:**

EACH RESURFACING SHALL BE IDENTIFIED WITH A METAL IDENTIFICATION TAG IDENTIFYING THE OWNER, AND YEAR OF CONSTRUCTION. IF THE RESURFACING IS MORE THAN 50 FEET IN LENGTH, PLACE THE TAG NEAR EACH END OF THE RESURFACING AND AT INTERVALS NOT TO EXCEED 50 FEET.

**SURFACE RESTORATION:**

SURFACE RESTORATION SHALL MATCH EXISTING/PROPOSED CONDITIONS WHEN NOT IN PAVED AREA.

**NOTES:**

- THE SURFACE OVER THE INFILTRATION SYSTEM SHALL BE RESTORED TO MATCH EXISTING CONDITIONS, WHICH MAY INCLUDE PORTIONS OF THE STREET, SIDEWALK, CURB AND GUTTER, ETC.
- THE SPECIFICATIONS INCLUDE A PERFORMANCE SPECIFICATION FOR THE SUBSURFACE INFILTRATION SYSTEM. THE CONTRACTOR SHALL SUBMIT SHOP AND WORKING DRAWINGS FOR REVIEW AND APPROVAL BY THE ENGINEER, WHICH SHALL INCLUDE ADDITIONAL DETAILS PERTAINING TO THE STRUCTURAL CONCRETE, PIPE CONNECTIONS, ETC.

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	PREPARED BY KATHRYN (KATIE) HARREL, P.E.	PLANS PREPARED UNDER THE SUPERVISION OF: KATHRYN (KATIE) HARREL, P.E.

Project Number: PZ497				
Drawing No.	NO.	REVISION	BY	APPR. DATE

CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT	
CULVER CITY CITYWIDE STORMWATER CAPTURE	
<b>SUBSURFACE INFILTRATION SYSTEM</b>	
APPROVED BY: JAVIER DELACRUZ, P.E. SENIOR CIVIL ENGINEER	SHEET <b>C-13</b> Sheet 14 of 14 Sheets