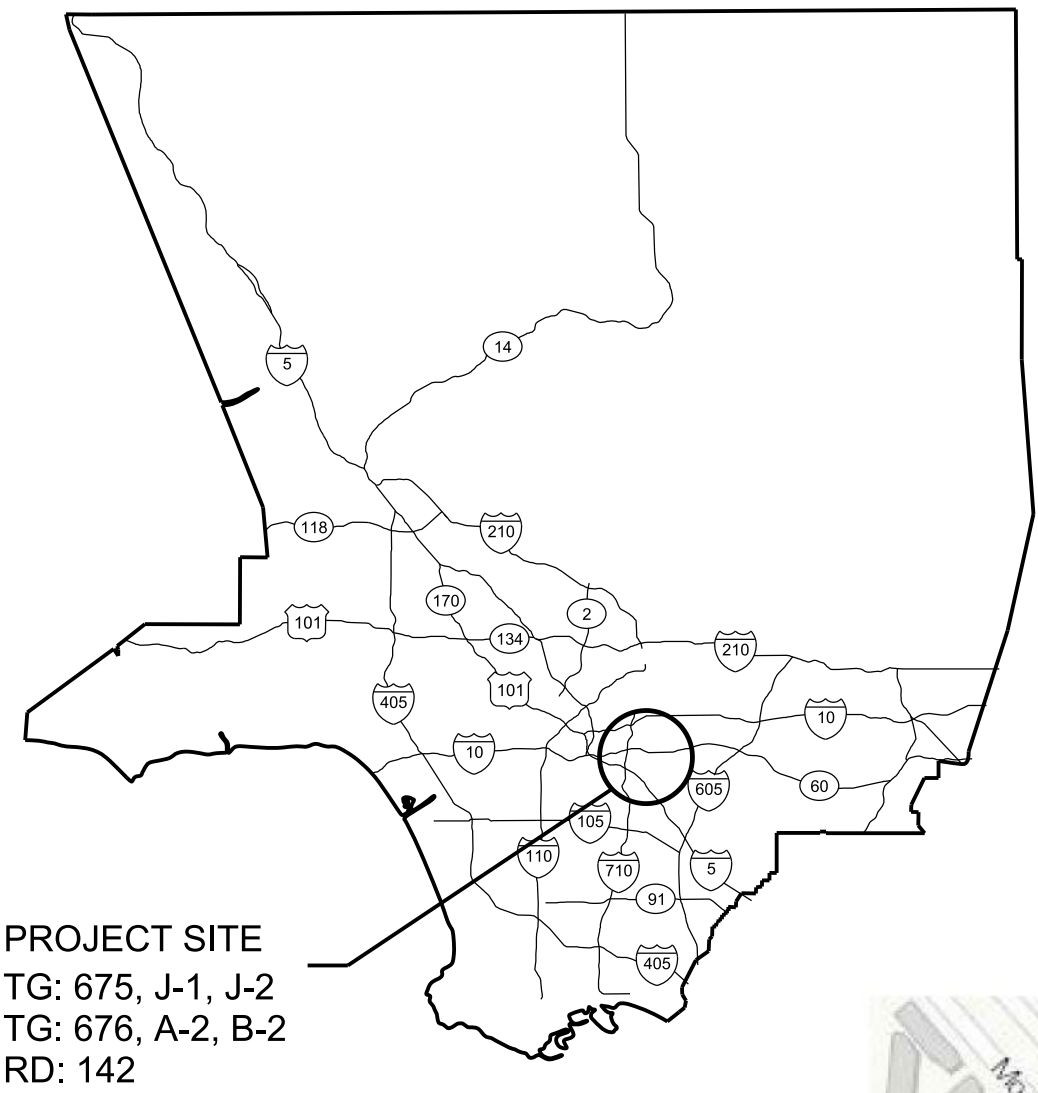


LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT



PROJECT SITE
TG: 675, J-1, J-2
TG: 676, A-2, B-2
RD: 142

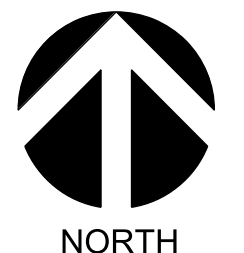
VICINITY MAP

PROJECT ID WMU0000010
 EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE
 PROJECT
 BID PACKAGE

CADD PROJECT FILE NAME
 EAST LA MEDIANS.DGN
 CHECKER
 D. RADLE
 DESIGNER
 C. RAYE
 DRAFTER
 S. LU / L. CHAVEZ



Know what's below.
Call before you dig.



KEY MAP
NOT TO SCALE

INDEX TO PROJECT PLANS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
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3	LID DETAILS
4	PLAN AND PROFILE - MONTEBELLO PKWY DRY WELLS, LINES A-1 AND A-2
5	PLAN AND PROFILE - NORTHSIDE DR DRY WELLS, LINES A-3, A-4, A-5, AND A-6
6	PLAN AND PROFILE - SOUTHSIDE DR DRY WELLS AND DIVERSION LINE, LINE B-1
7	PLAN AND PROFILE - NORTHSIDE DR DRY WELLS, LINE C-1
8	PLAN AND PROFILE - GARFIELD AVE DIVERSION LINE, LINE C-1
9	PLAN AND PROFILE - SOUTHSIDE DR DRY WELLS, LINE D-1
10	PLAN AND PROFILE - SOUTHSIDE DR DRY WELLS, GARFIELD AVE DIVERSION LINE, LINE D-1
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13	CONSTRUCTION DETAILS AND DRY WELL TABLE
14	WATER MONITORING PLAN
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19-26	LOGS OF BORINGS
PLAN EE	ELECTRICAL PLANS
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PLAN ME	MECHANICAL PLANS
PLAN SP	SIGNING, STRIPING, AND PEDESTRIAN SIGNAL PLANS
PLAN TC	TRAFFIC CONTROL PLANS

UTILITIES

GAS:	SOUTHERN CALIFORNIA GAS COMPANY
POWER:	SOUTHERN CALIFORNIA EDISON
SEWER:	SANITATION DISTRICT OF LOS ANGELES COUNTY
TELEPHONE:	AT&T
WATER:	CALIFORNIA WATER SERVICE COMPANY

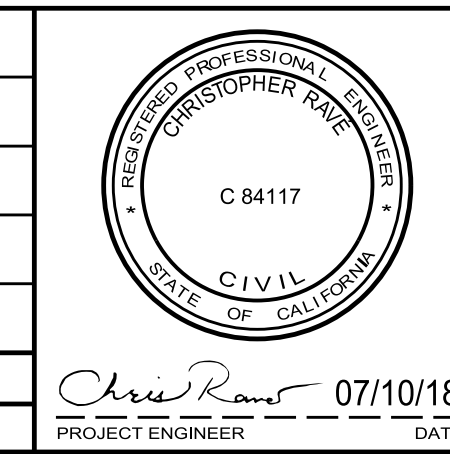
REFERENCES

MONTEBELLO LMD - PHASE II INFILTRATION FEASIBILITY INVESTIGATION (DATED 12/04/17)
SURVEY FIELD NOTES: PWFB 1124 PAGES 2921-2962, 2969-2977

LOCATION	85TH PERCENTILE 24-HR CAPTURE VOLUME [AC-FT]	DRAINAGE AREA [AC]	85TH PERCENTILE DESIGN FLOW [CFS]	85TH PERCENTILE PEAK FLOW (DRAINAGE AREA) [CFS]	NUMBER OF 52"-INNER DIAMETER DRY WELLS
MONTEBELLO PKWY DRY WELLS, LINE A-1	3.30	87.4	3.19	5.95	14
MONTEBELLO PKWY DRY WELLS, LINE A-2	0.25	8	0.23	0.77	1
STRUCTURAL CELL MODULES AND DRY WELLS, LINES A-3, A-4, A-5, AND A-6	0.57	17.3	0.29	0.57	4
SOUTHSIDE DR DRY WELLS, LINE B-1	0.66	18.3	2.1	2.1	6
NORTHSIDE DR DRY WELLS, LINE C-1	8.46	2900	8.09	288	37
SOUTHSIDE DR DRY WELLS, LINE D-1	8.36	2900	7.73	288	38
NORTHSIDE DR AT SERVER AVE, LINE E-1	0.15	17.3	0.18	1.65	1
SOUTHSIDE DR AT SERVER AVE, LINE F-1	0.38	32.5	0.61	3.38	2
TOTAL	22.13	-	-	-	103

VOLUME OF STRUCTURAL CELL MODULES [CY]	108
--	-----

APPROVED BY: <i>Mark Pestrella</i> DEPUTY DIRECTOR DATE: 7/10/2018			
RECOMMENDED BY: <i>Hector J. Bordas</i> ASSISTANT DEPUTY DIRECTOR DATE: 7/10/2018			
SUBMITTED BY: <i>Sal Atrappo</i> DESIGN TEAM I DATE: 7/10/2018	DATE	MK	DESCRIPTION
			REVISIONS



LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

TITLE SHEET
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27

SHEET 1 OF 26

GENERAL NOTES

- PRIME CONTRACTOR LICENSE REQUIRED: CLASS A
- STANDARD PLANS REFERENCED ARE PER THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC) UNLESS OTHERWISE NOTED.
- ALL FIELD BOOK REFERENCES PERTAIN TO LOS ANGELES COUNTY PUBLIC WORKS FIELD BOOKS, UNLESS OTHERWISE NOTED.
- ELEVATIONS SHOWN ARE IN FEET BASED ON LOS ANGELES COUNTY RIVERA QUAD, 2005 ADJUSTMENT, NAVD 1988 DATUM. COORDINATES SHOWN ARE NAD 83, CA, ZONE 5, EPOCH 2007.
- ALL DISTURBED MONUMENTS AND BENCHMARK MARKERS WITHIN THE PROJECT LIMITS SHALL BE REPLACED AT THEIR PRE-CONSTRUCTION LOCATION AND ELEVATION UNLESS OTHERWISE DIRECTED BY THE AGENCY.
- STATIONS SHOWN ON THE PLANS ARE ALONG CENTERLINE OF CONDUIT OR ON A LINE NORMAL TO CENTERLINE OF CONDUIT.
- STATIONS AND INVERT ELEVATIONS OF PIPE INLETS SHOWN ON THE PROFILES ARE AT THE INSIDE FACE OF THE CONDUIT, UNLESS OTHERWISE SHOWN.
- REFER TO THIS SHEET FOR TYPICAL CATCH BASIN CONNECTOR PIPE PROFILE.
- PIPE CONNECTIONS TO STORM DRAIN SHALL CONFORM TO SPPWC STANDARD PLAN NO. 335, UNLESS OTHERWISE NOTED.
- ALL PIPE IN OPEN TRENCH SHALL BE BEDDED ACCORDING TO LACPW STANDARD PLAN 3080, CASE 3, UNLESS OTHERWISE NOTED. "W" VALUES SHALL BE AS SPECIFIED ON STANDARD PLAN 3080 FOR CASE 3 BEDDING, NOTES (a) AND (b). IF THE "W" VALUE AT THE TOP OF THE PIPE IS EXCEEDED, THE BEDDING SHALL BE MODIFIED AND/OR PIPE OF ADDITIONAL STRENGTH SHALL BE PROVIDED. THE PROPOSED MODIFICATION SHALL BE APPROVED BY THE AGENCY.
- CONCRETE BACKFILL SHALL BE PROVIDED AROUND PIPE 21 INCHES IN DIAMETER OR LESS WHERE THE COVER IS EQUAL TO OR LESS THAN 2'-0", AROUND PIPE GREATER THAN 21 INCHES IN DIAMETER BUT LESS THAN 39 INCHES WHERE THE COVER IS LESS THAN 1'-3", AND FOR PIPE 39 INCHES OR GREATER WHERE THE COVER IS LESS THAN 1'-0". THE CONCRETE BACKFILL SHALL BE AS SPECIFIED ON LACPW STANDARD PLAN 3080, NOTE 4.
- ALL NEW AND EXISTING CATCH BASINS SHALL INCLUDE A CONNECTOR PIPE SCREEN (CPS) AT EACH OUTLET.
- CATCH BASIN MANHOLE SHALL BE LOCATED ON THE OPPOSITE SIDE OF THE CONNECTOR PIPE OUTLET.
- MANHOLES SHALL USE SPPWC STANDARD PLAN NO. 630 OR 633 FOR THE "FRAME AND COVER," WHICHEVER APPLIES, AND 635 FOR THE "STANDARD DROP STEP". STORM DRAIN MANHOLE COVERS SHALL BE CAST WITH THE LETTER "D" AT THE CENTER OF THE COVER AND THE LETTERS "L.A.C.F.C.D." SHALL BE CAST BELOW THE LETTER "D" IF OWNED BY LACFCD. CATCH BASIN MANHOLE COVERS SHALL BE CAST WITH THE LETTERS "L.A.C.F.C.D." AT THE CENTER OF THE COVER IF OWNED BY LACFCD. THE LETTER SIZE SHALL BE 1-INCH HIGH.
- ALL MANHOLE COVERS SHALL BE FURNISHED WITH PICK HOLE PLUGS. PICK HOLE PLUG SHALL BE MOLDED, CUT, OR EXTRUDED FROM A HIGH QUALITY RUBBER. IF THE PLUG IS CUT, IT SHALL HAVE A MINIMUM TENSILE STRENGTH OF 800 PSI. IF THE PLUG IS EXTRUDED, IT SHALL HAVE A MINIMUM TENSILE STRENGTH OF 1200 PSI AND SHALL HAVE A HARDNESS BETWEEN 55 AND 65. THE PICK HOLE PLUG SHALL BE APPROPRIATELY SIZED FOR THE SIZE OF THE PICK HOLE.
- LOCATIONS OF CATCH BASIN CONNECTOR PIPE JUNCTIONS WITH CATCH BASINS, AS SHOWN ON THE PLANS, ARE SCHEMATIC. IT IS INTENDED THAT SUCH JUNCTIONS BE LOCATED AT THE DOWNSTREAM ENDS OF THE CATCH BASINS, UNLESS INDICATED OTHERWISE.
- MONOLITHIC CATCH BASIN CONNECTIONS, IF APPLICABLE, SHALL BE CONSTRUCTED PER SPPWC STANDARD PLAN NO. 308.
- FOR LOCAL DEPRESSION, SPPWC STANDARD PLAN NO. 313 SHALL BE USED, UNLESS OTHERWISE NOTED, H SHALL EQUAL 4 INCHES FOR CASES A, B, C, AND D; AND 2 INCHES FOR CASES E, F, AND G.
- CURB FACE SHALL BE 8 INCHES AT THE ENDS OF LOCAL DEPRESSIONS WHERE THERE IS NO EXISTING CURB.
- THE EXISTING PAVEMENT ADJACENT TO LOCAL DEPRESSIONS OR OTHER IMPROVEMENTS SHALL BE REMOVED AND REPLACED TO A MINIMUM OF 2 FEET FROM THE STRUCTURE.
- ALL RESURFACING, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE CONSTRUCTED AT THE SAME ELEVATION AND LOCATION AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
- COMPACTION EQUIPMENT USED TO PLACE BACKFILL MUST NOT EXCEED 35,000 LBS.
- ALL GALVANIZED STEEL SHALL BE HOT DIPPED.
- ALL ANCHOR BOLTS SHALL BE GALVANIZED AND HOT DIPPED.
- ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE THE PROPERTY OF THE OWNERS LISTED ON SHEET 1, UNLESS OTHERWISE NOTED.
- EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND ALL UTILITIES CROSSING THE TRENCH SHALL BE TEMPORARILY SUPPORTED TO THE SATISFACTION OF THE OWNER.
- WHERE THE UTILITIES ARE INDICATED ON THE PLANS TO BE SUPPORTED, SAID SUPPORTS SHALL BE IN ACCORDANCE WITH SPPWC STANDARD PLAN NO. 224, UNLESS OTHERWISE INDICATED.
- OVERHEAD UTILITY LINES ARE NOT SHOWN ON THE PROJECT PLANS, WHICH MAY IMPACT THE CONTRACTOR'S OPERATIONS.
- WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL INSTALL A BLUE RAISED RETROREFLECTIVE PAVEMENT MARKER (RPM) ON THE FINISHED SURFACE AT EACH FIRE HYDRANT LOCATION PER CALIFORNIA 2014 MUTCD PART 3, FIGURE 3B-102 (CA), AS DESCRIBED IN THE SPECIAL PROVISIONS.
- EXISTING TREES SHALL BE REMOVED ONLY IF DESIGNATED BY SYMBOL "R." THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.

NON-STANDARD ABBREVIATIONS

ABBREVIATION	WORD OR WORDS
ADJ	ADJUST, ADJUSTMENT
AP	ANGLE POINT
AVE	AVENUE
BLVD	BOULEVARD
BM	BENCH MARK
BW	BACK OF WALK
C&G	CURB AND GUTTER
CA	CALIFORNIA
CALTRANS	STATE OF CALIFORNIA
	DEPARTMENT OF TRANSPORTATION
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CONN	CONNECTOR
CP	CONNECTOR PIPE
CPS	CONNECTOR PIPE SCREEN
CY	CUBIC YARD
D/S	DOWNSTREAM
DR	DRIVE
DWG	DRAWING
E/O	EAST OF
E	EAST, ELECTRIC
EFL	EFFLUENT
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATION
EX	EXISTING
FG	FINISHED GRADE
FH	FIRE HYDRANT
FS	FINISHED SURFACE
G	GAS
GC	GRADE CHANGE
GR	GRADE
GV	GAS VALVE
GW	GUY WIRE
H	HIGH
HORIZ	HORIZONTAL
HW	HOUSEWALK
INCL	INCLUDING
INF	INFLUENT
INT	INTERSECTION
INV	INVERT
JS	JUNCTION STRUCTURE
L	LENGTH
LACPW	LOS ANGELES COUNTY PUBLIC WORKS
LACFCD	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
	LOCAL DEPRESSION
LD	LINEAR FEET
LF	LONG
LG	LONG
MECH	MECHANICAL
MOD	MODIFIED
MON	MONITORING
MTL	MATERIAL
N	NORTH
N/O	NORTH OF
NAD	NORTH AMERICA DATUM
NAVD	NORTH AMERICA VERTICAL DATUM
NE	NORTHEAST
NW	NORTHWEST
PB	PULL BOX
PERF	PERFORATED
PG	PAGE
PI	POINT OF INTERSECTION
PKWY	PARKWAY
PL	PLACE
PP	POWER POLE
PROP	PROPOSED
PWFB	PUBLIC WORKS FIELD BOOK
RD	ROAD DIVISION
RECONST	RECONSTRUCT
RELOC	RELOCATE
RESURF	RESURFACE, RESURFACING
RSP	REVISED STANDARD PLAN
RU	UTILITY TO BE RELOCATED BY OWNER
S	SLOPE, SOUTH
S/O	SOUTH OF
SCH	SCHEDULE
SD	STORM DRAIN
SE	SOUTHEAST
SH	SHEET
SF	SQUARE FEET
SL	STREET LIGHT
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
ST	STREET
STA	STATION
SW	SOUTHWEST
SWR	SANITARY SEWER
SWR MH	SANITARY SEWER MANHOLE
TC	TOP OF CURB
TG	THOMAS GUIDE
TL	TRANSIT LINE
TOT	TOTAL

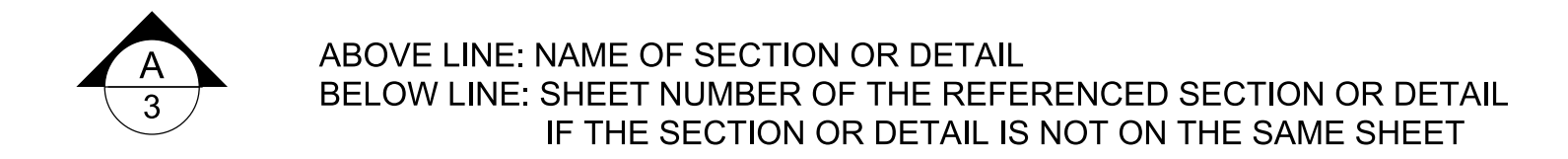
NON-STANDARD ABBREVIATIONS (CONTINUED)

ABBREVIATION	WORD OR WORDS
TS	TRAFFIC SIGNAL, TRANSITION STRUCTURE
U/S	UPSTREAM
V _i	INLET V-DEPTH
V _{od}	OUTLET V-DEPTH TO DRYWELL
V _{om}	OUTLET V-DEPTH TO MAINLINE
VAR	VARIABLE, VARIES
VERT	VERTICAL
W	WATER, WEST, WIDE
W/O	WEST OF
WM	WATER METER
WV	WATER VALVE
WY	WAY
Ø	DIAMETER

STANDARD PLANS

SPPWC, 2012 EDITION	
100-2	TOPOGRAPHY SYMBOLS AND STANDARD ABBREVIATIONS
101-2	ABOVEGROUND UTILITIES LOCATION IN PARKWAY
112-2	CURB AND SIDEWALK JOINTS
120-2	CURB AND GUTTER - BARRIER
121-2	CURB AND GUTTER - MOUNTABLE
122-2	CROSS AND LONGITUDINAL GUTTERS
132-3	CONCRETE PAVEMENT REPLACEMENT
133-3	ASPHALT CONCRETE PAVEMENT REPLACEMENT
134-2	CONCRETE PAVEMENT JOINT DETAILS
224-2	SUPPORTS FOR CONDUITS ACROSS TRENCHES
300-3	CURB OPENING CATCH BASIN
302-3	CURB OPENING CATCH BASIN WITH GRATING(S)
308-2	MONOLITHIC CATCH BASIN CONNECTION
309-2	CATCH BASIN REINFORCEMENT
310-3	CATCH BASIN FACE PLATE ASSEMBLY AND PROTECTION BAR
312-4	CATCH BASIN MANHOLE FRAME AND COVER
313-3	LOCAL DEPRESSIONS AT CATCH BASINS
320-2	MANHOLE PIPE-TO-PIPE [MAIN LINE ID = 36" OR LARGER]
321-2	MANHOLE PIPE-TO-PIPE [ONE OR BOTH MAIN LINE IDS = 33" OR SMALLER]
326-2	MANHOLE SHAFT - 36" WITHOUT REDUCER
327-2	MANHOLE FOR EXISTING RCB
331-3	JUNCTION STRUCTURE - PIPE TO PIPE INLET ID > 24" OR OD > 1/2" MAIN LINE ID
332-2	JUNCTION STRUCTURE - PIPE TO PIPE ID < 24"
333-2	JUNCTION STRUCTURE - PIPE TO RCB
335-2	PIPE CONNECTIONS TO EXISTING STORM DRAINS
342-2	TRANSITION STRUCTURE RCB TO PIPE
380-4	CONCRETE COLLAR FOR RCP 12" THROUGH 72"
523-2	ROOT PRUNING
630-4	24" MANHOLE FRAME AND COVER
633-4	36" MANHOLE FRAME AND COVER
635-3	STEEL STEP
LACDPW, 2000 EDITION	
3080-3	PIPE BEDDING IN TRENCHES
3090-1	CRITERIA FOR THE DESIGN OF SHORING FOR EXCAVATIONS
3091-1	SAMPLE SHEET FOR USE AS A GUIDE IN PREPARING CALCULATIONS FOR SHORING OF EXCAVATIONS
3093-1	UNIFIED SOIL CLASSIFICATION SYSTEM
6002-1	PORTABLE SECURITY FENCE FOR OPEN TRENCHES
6008-1	MINIMUM PUBLIC SAFETY REQUIREMENTS FOR OPEN EXCAVATIONS
CITY OF LOS ANGELES BUREAU OF ENGINEERING	
S-342-4	FRAME AND GRATING FOR CATCH BASINS (BICYCLE SAFE)
CALTRANS, 2015 EDITION	
RSP A88A	CURB RAMP DETAILS (DATED 7/21/2017)
RSP A88B	CURB RAMP AND ISLAND PASSAGEWAY DETAILS (DATED 7/21/2017)

CONSTRUCTION SYMBOLS

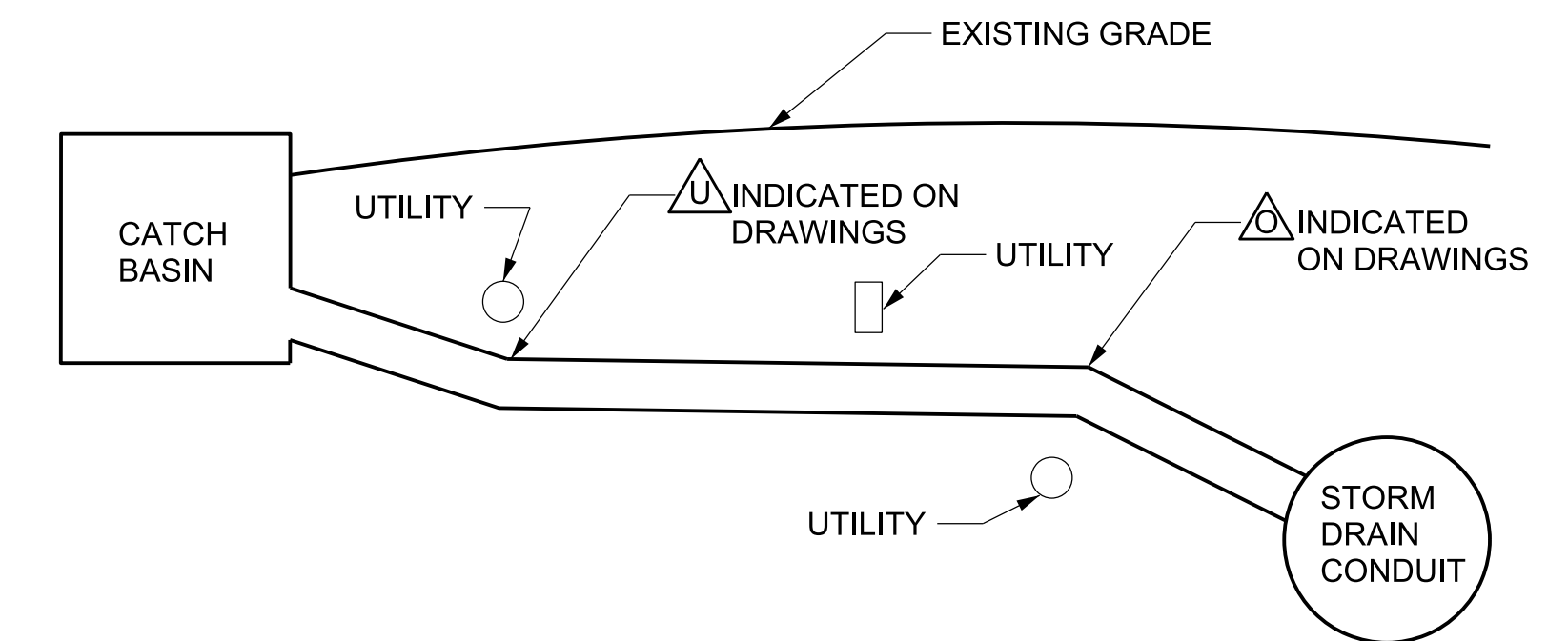


CONSTRUCTION NOTES

- THICKNESS OF PAVEMENTS ARE INDICATED ON PLAN IN THE RESURFACING SCHEDULE TABLE AND APPLY ONLY WITHIN THE LIMITS OF EXCAVATION.
- ALL PAVEMENT REMOVALS SHALL USE STRAIGHT LINE SAW CUTS A MINIMUM OF 1.5" DEEP.
- AC PAVEMENT CONSTRUCTION FOR ANY TRENCH RESURFACING SHALL EXTEND A MINIMUM OF 12" BEYOND ANY TRENCH WALL (SEE TYPICAL PIPE TRENCH DETAIL FOR AC PAVEMENT ON SHEET 8). IF REMAINING AC PAVEMENT BETWEEN EDGE OF TRENCH RESURFACING AND EXISTING CONCRETE CURB, CROSS GUTTER, OR CUT LINE IS LESS THAN 12 INCHES IN WIDTH, THE REMAINING AC PAVEMENT SHALL BE COLD MILLED 2" AND REPLACED.
- PCC PAVEMENT AND BASE CONSTRUCTION FOR ANY TRENCH RESURFACING SHALL EXTEND A MINIMUM OF 12" BEYOND ANY TRENCH WALL (SEE TYPICAL PIPE TRENCH DETAIL FOR PCC PAVEMENT ON SHEET 8). IF REMAINING CONCRETE PAVEMENT BETWEEN EDGE OF TRENCH RESURFACING AND EXISTING CONCRETE JOINT IS LESS THAN 3 FEET IN WIDTH, THE REMAINING CONCRETE PAVEMENT SHALL BE REPLACED WITH PCC ON BASE PER RESURFACING SCHEDULE.
- PCC PAVEMENT SHALL JOIN EDGE OF ALL EXISTING VAULTS.
- ALL AFFECTED TRAFFIC STRIPING, CURB MARKINGS, PAVEMENT MARKERS, AND LOOP DETECTORS SHALL BE REPLACED TO MATCH EXISTING UNLESS OTHERWISE NOTED.
- ANY MAIN LINE SEWERS, MANHOLES, OR HOUSE CONNECTIONS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE TO THE SATISFACTION OF THE COUNTY ENGINEER.
- THE PCC THICKNESS "T" FOR ALL CURB RAMPS SHALL BE 4" UNLESS OTHERWISE NOTED.

NOTES

- THE CHANGE IN GRADE OF THE CONNECTOR PIPE SHALL OCCUR EITHER OVER OR UNDER EXISTING UTILITY. THE PARTICULAR UTILITY, AT WHICH THE CHANGE IN GRADE OCCURS, IS NOTED ON THE PROJECT PLANS. AT LOCATIONS WHERE UTILITY CROSSINGS ARE MARKED , THE CONNECTOR PIPE GRADE SHALL BREAK OVER THE UTILITY. AT LOCATIONS WHERE UTILITY CROSSINGS ARE MARKED , THE CONNECTOR PIPE GRADE SHALL BREAK UNDER THE UTILITY.
- ON THOSE CONNECTOR PIPES WHERE CHANGE IN GRADE IS NOT INDICATED, IT IS ASSUMED THAT THE CONNECTOR PIPE SHALL BE LAID ON A STRAIGHT GRADE FROM THE CATCH BASIN TO THE STORM DRAIN WITHOUT INTERFERENCE WITH UTILITIES.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS TO DETERMINE THE EXACT LOCATION AND DEPTH OF UTILITIES THAT ARE MARKED OR , EXCEPT SANITARY SEWER UTILITIES. AFTER THE EXACT LOCATION A UTILITY HAS BEEN DETERMINED, THE GRADE AND ALIGNMENT OF THE CONNECTOR PIPE SHALL BE STAKED SO AS TO CLEAR THE UTILITY.
- WHERE CONNECTOR PIPE HAS A GRADE CHANGE EXCEEDING 0.10 FEET PER FOOT, OR DIFFERS IN DIAMETER FROM THAT OF EXISTING PIPE, USE CONCRETE COLLAR PER STANDARD PLAN 380.
- LOCATIONS OF TEST WELLS FOR THE BORING LOGS ARE SHOWN AND MARKED ON PLANS WITH THE SYMBOL .



TYPICAL CONNECTOR PIPE PROFILE
NOT TO SCALE

CAD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU/L. CHAVEZ

DATE	MK	DESCRIPTION

Chris Rave 07/10/18
PROJECT ENGINEER DATE

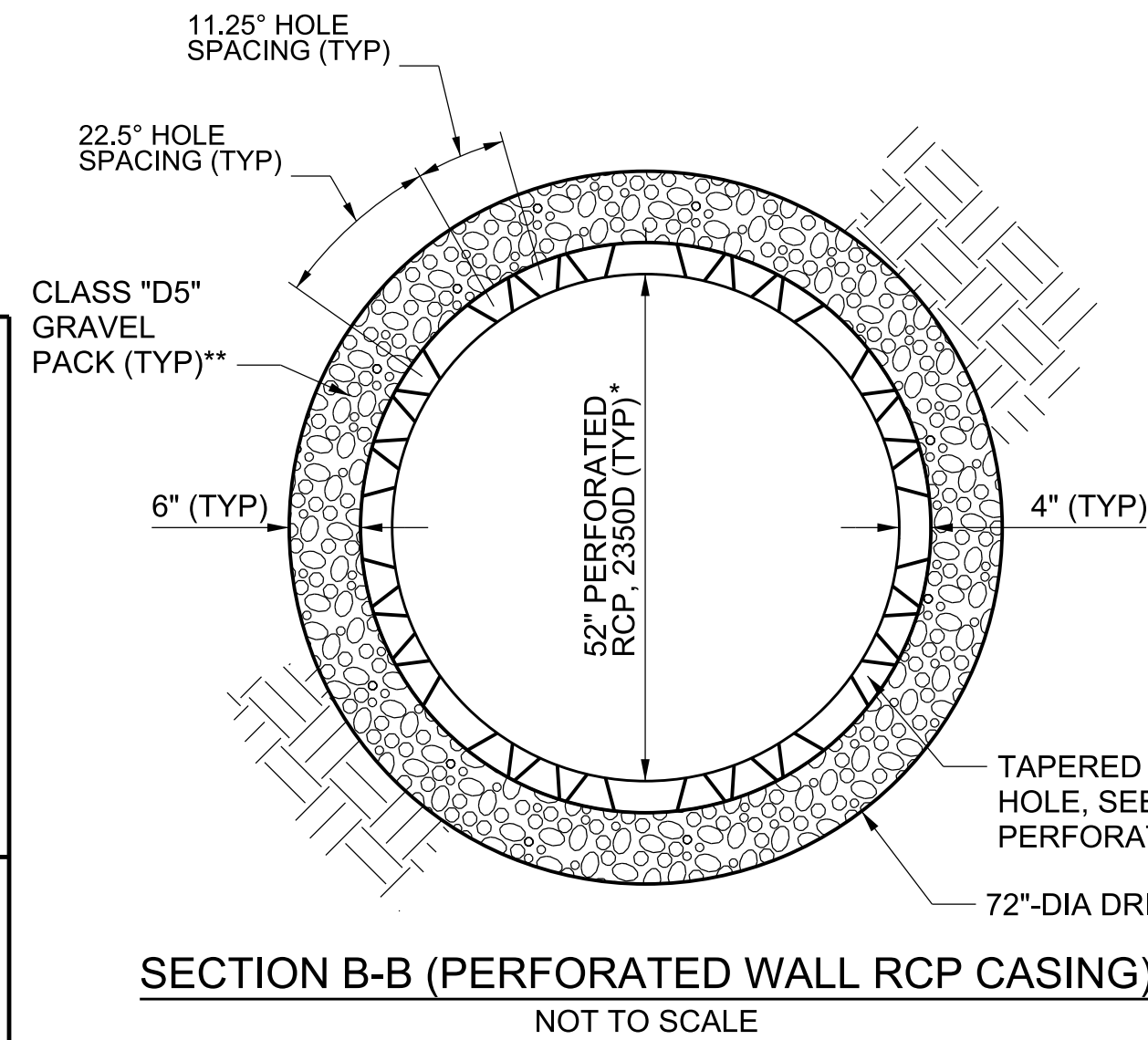
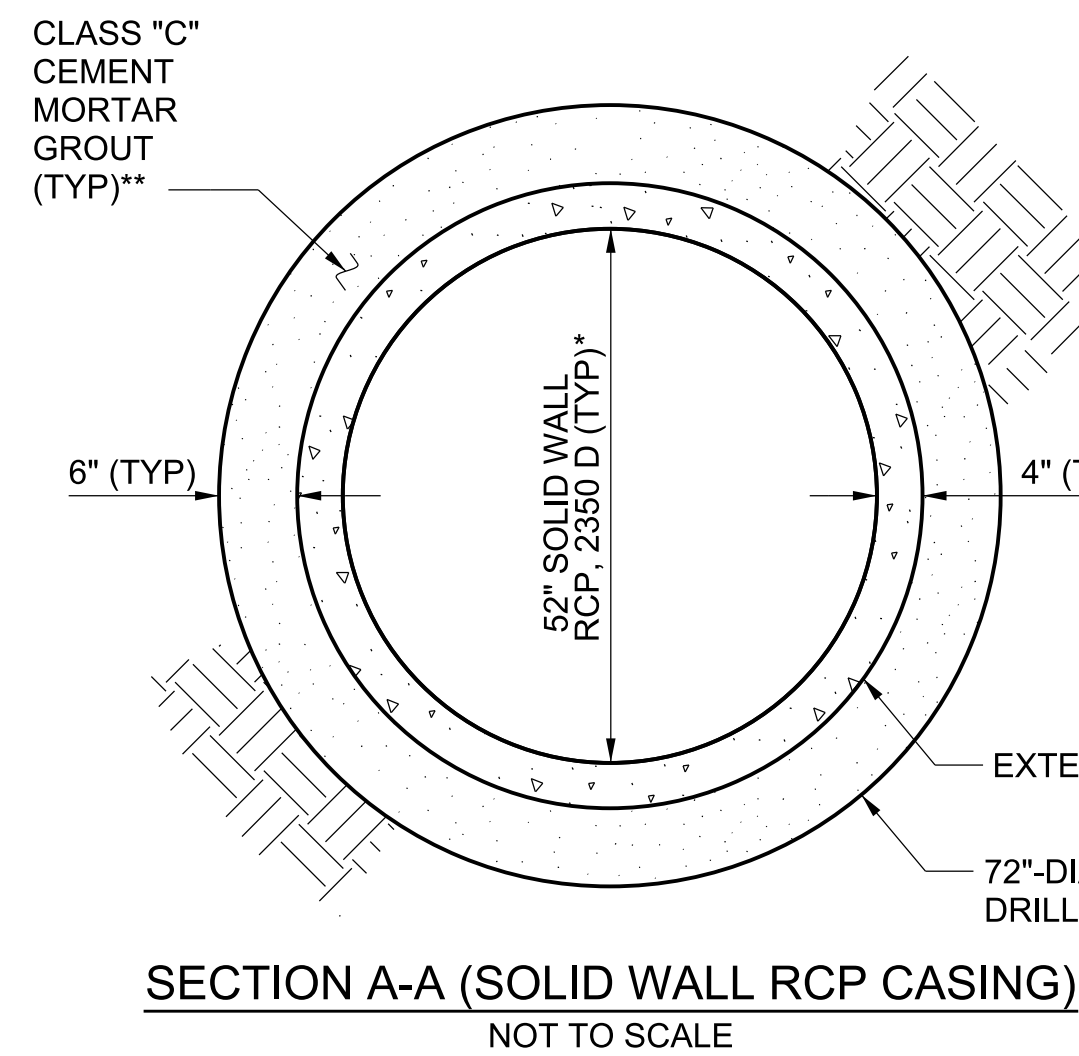
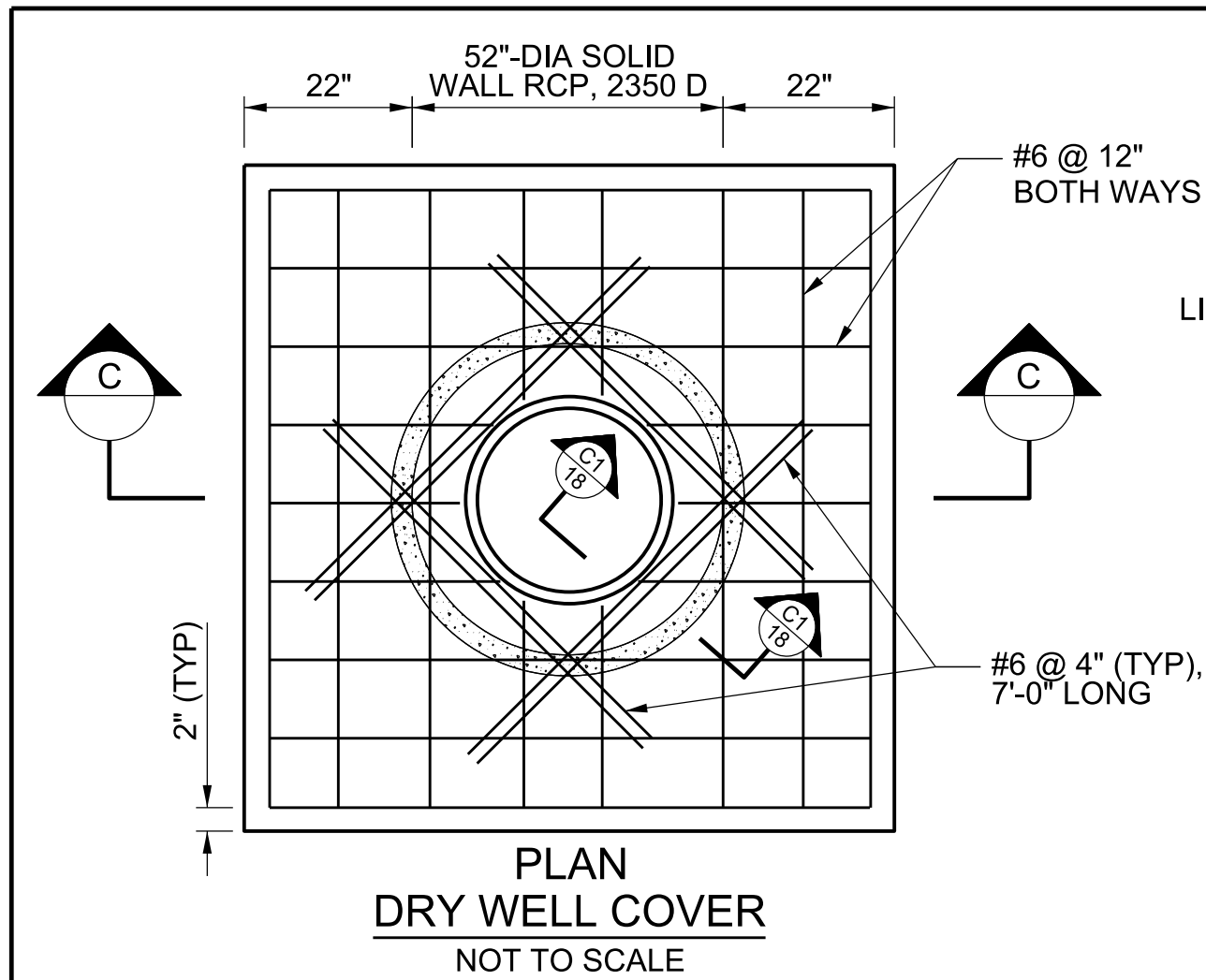
LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

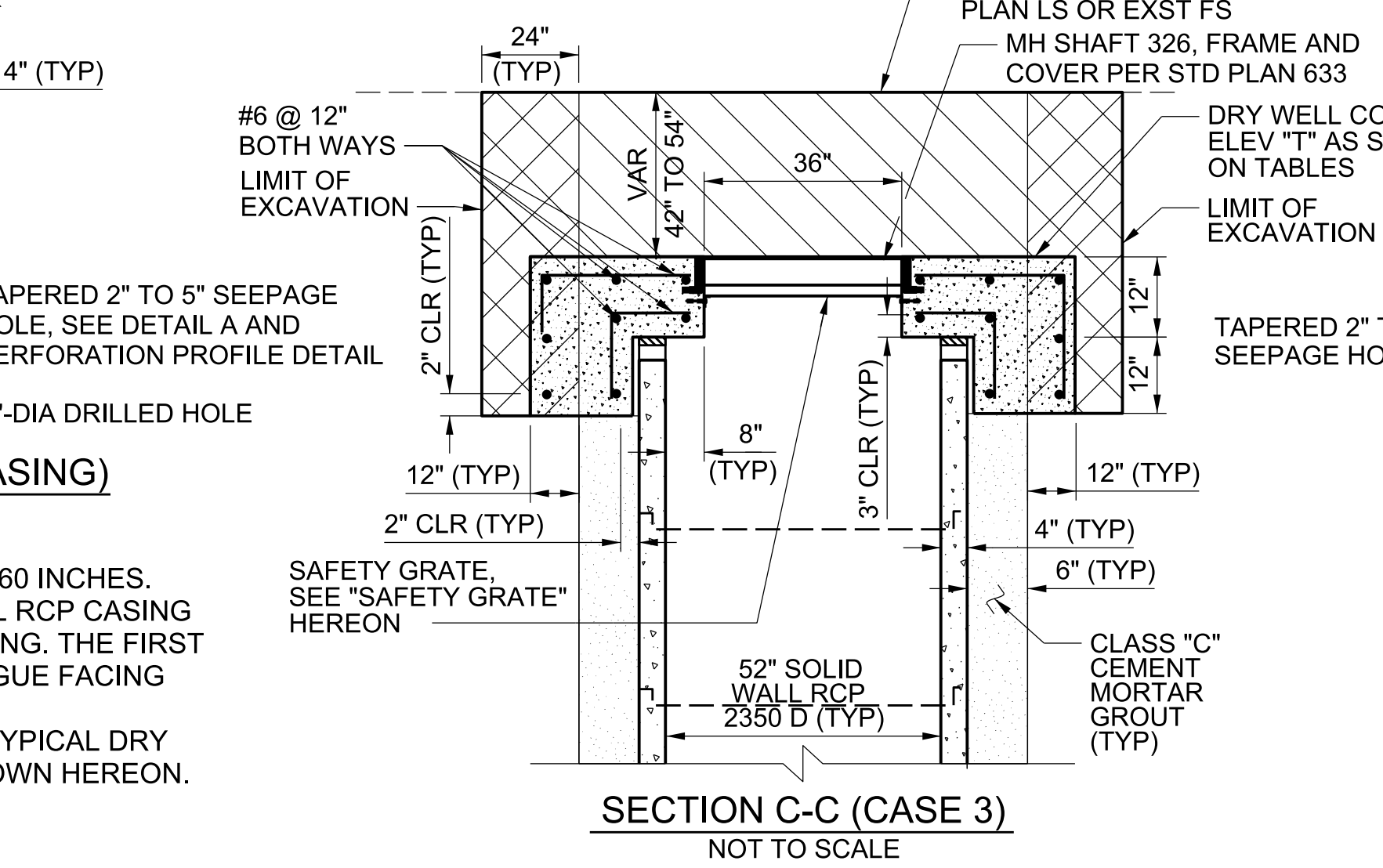
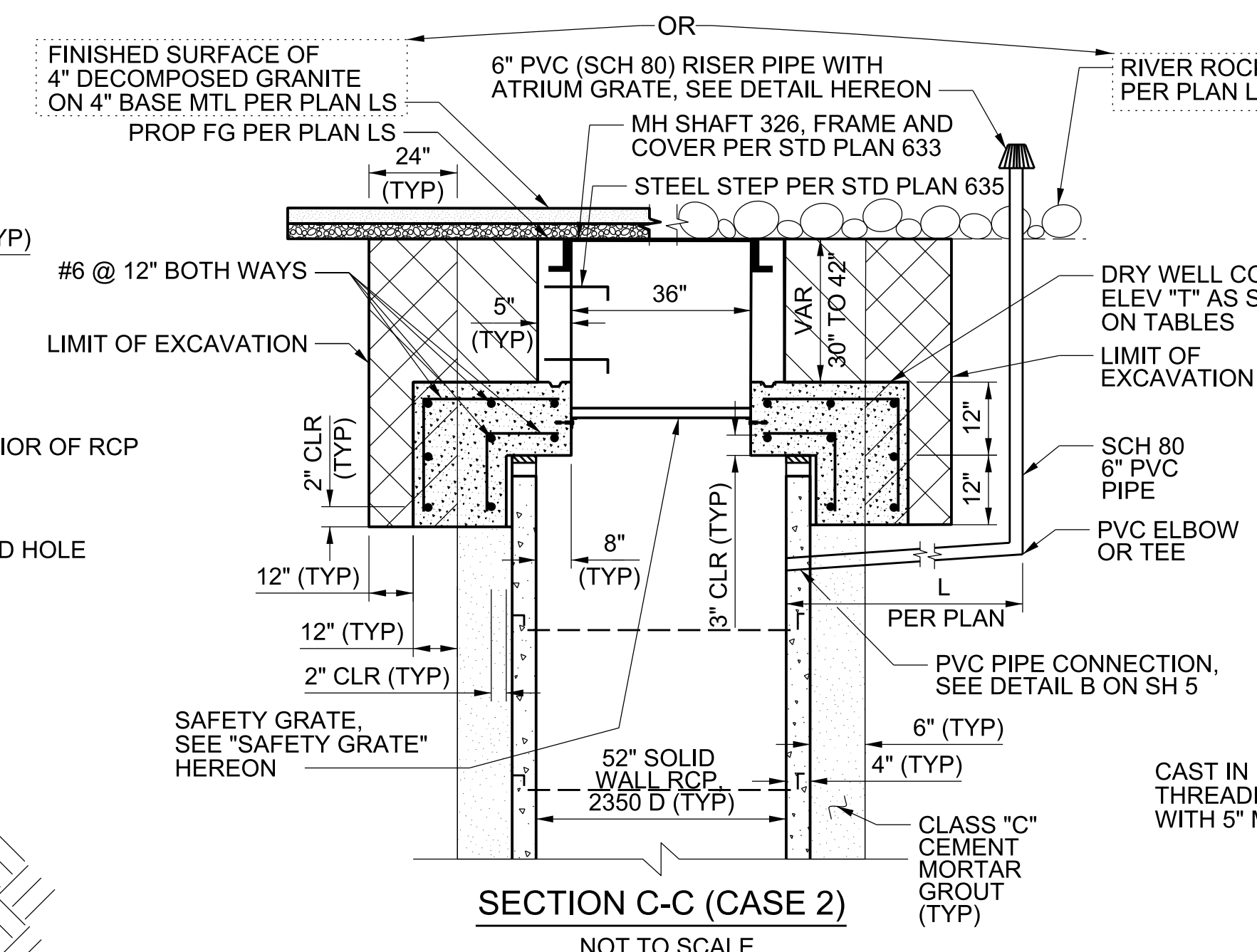
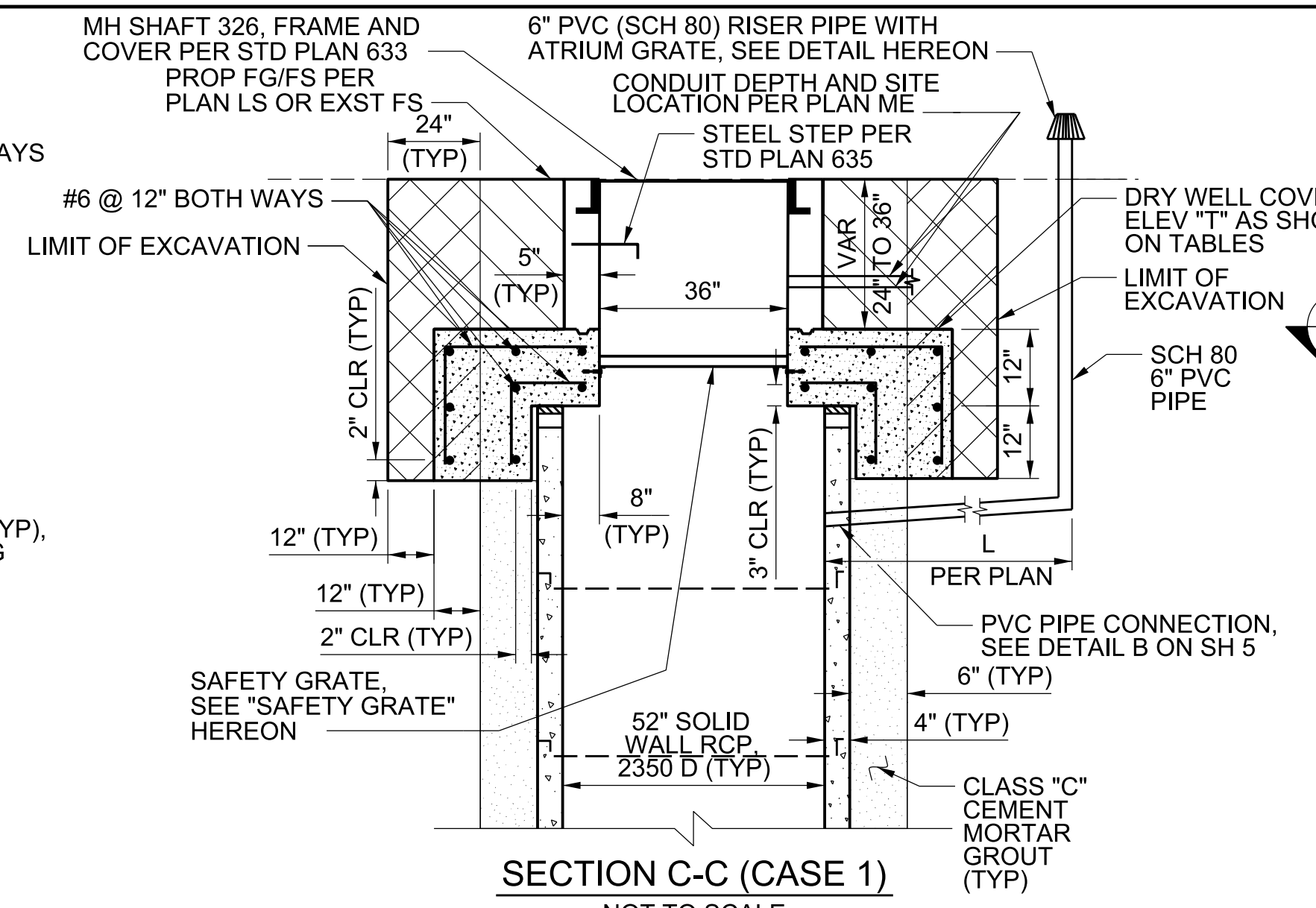
CONSTRUCTION NOTES AND LEGENDS

PROJECT ID NO. WMU0000010

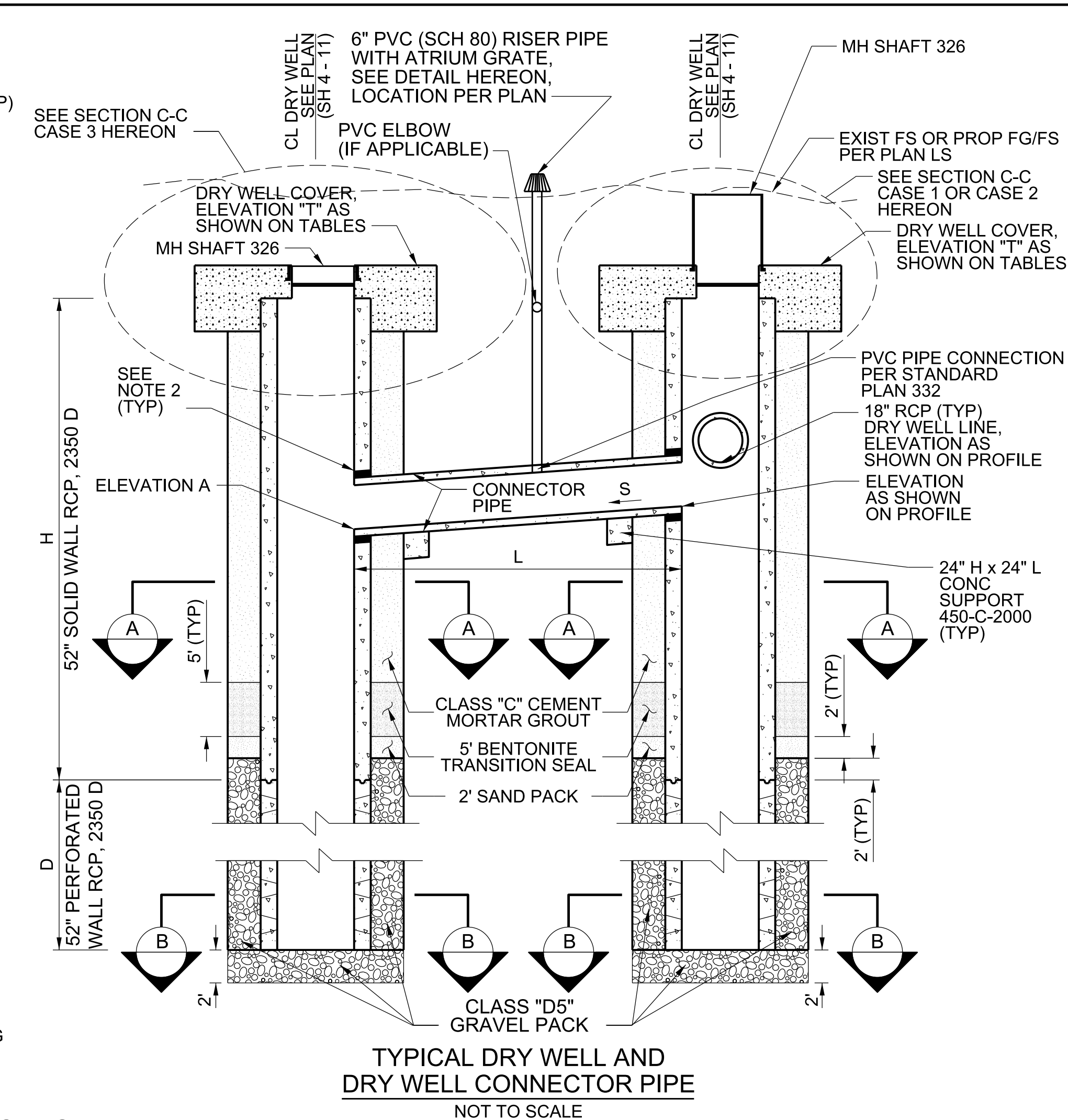
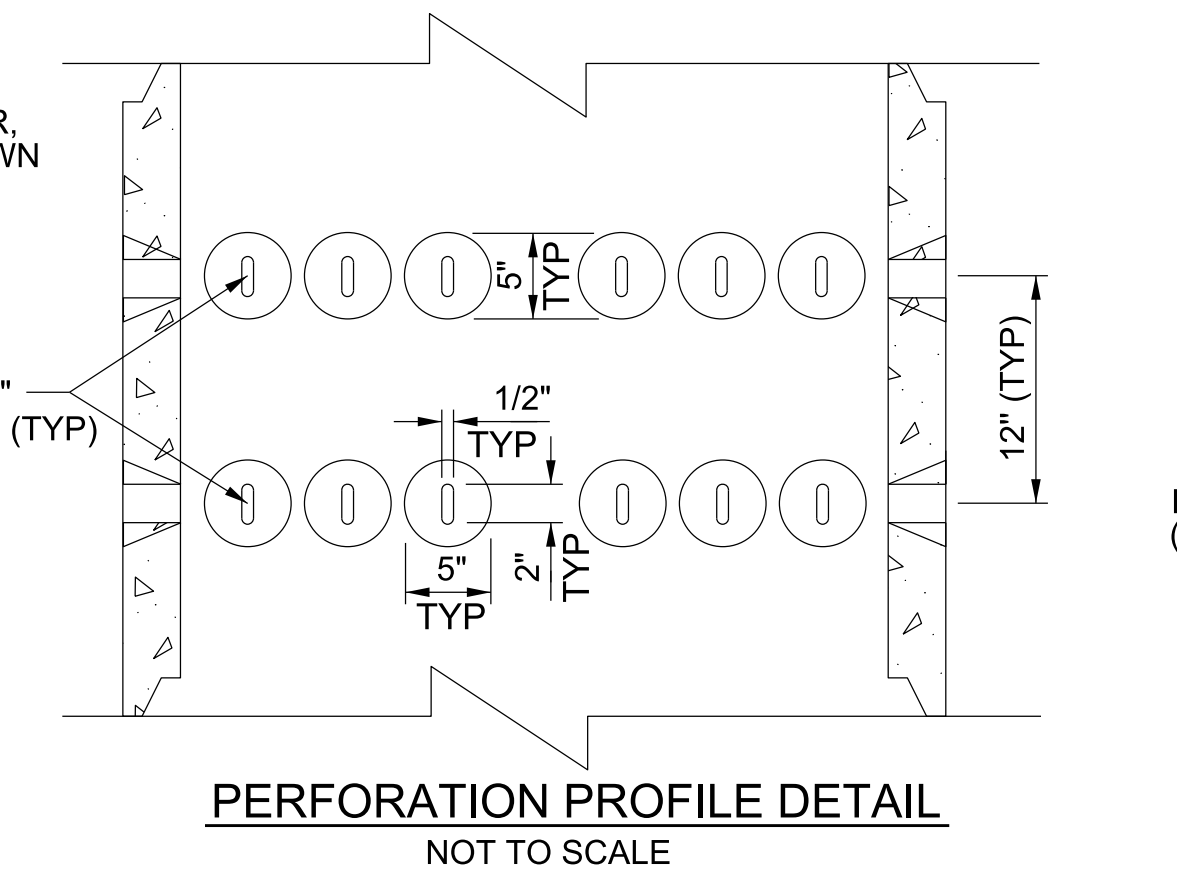
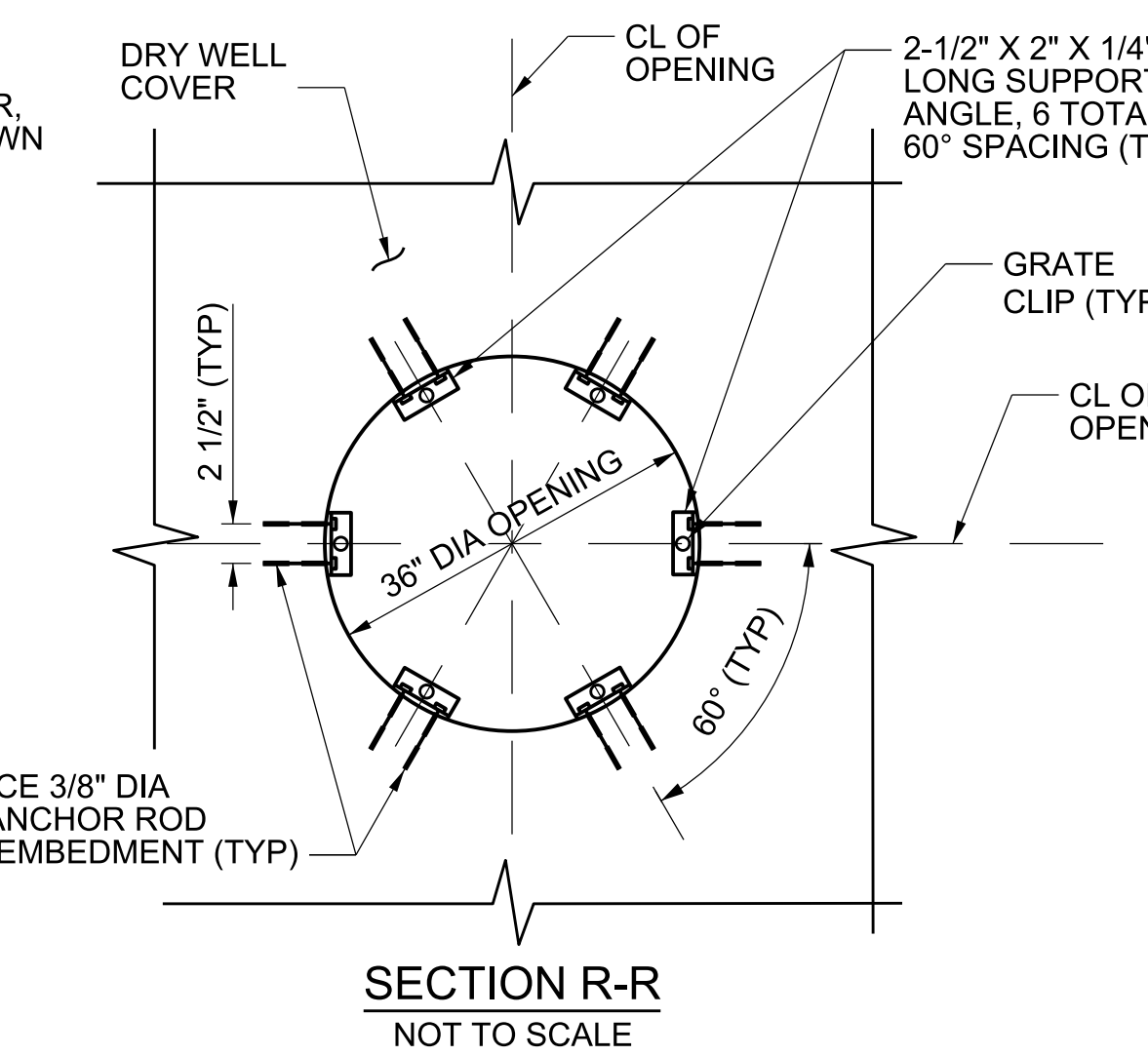
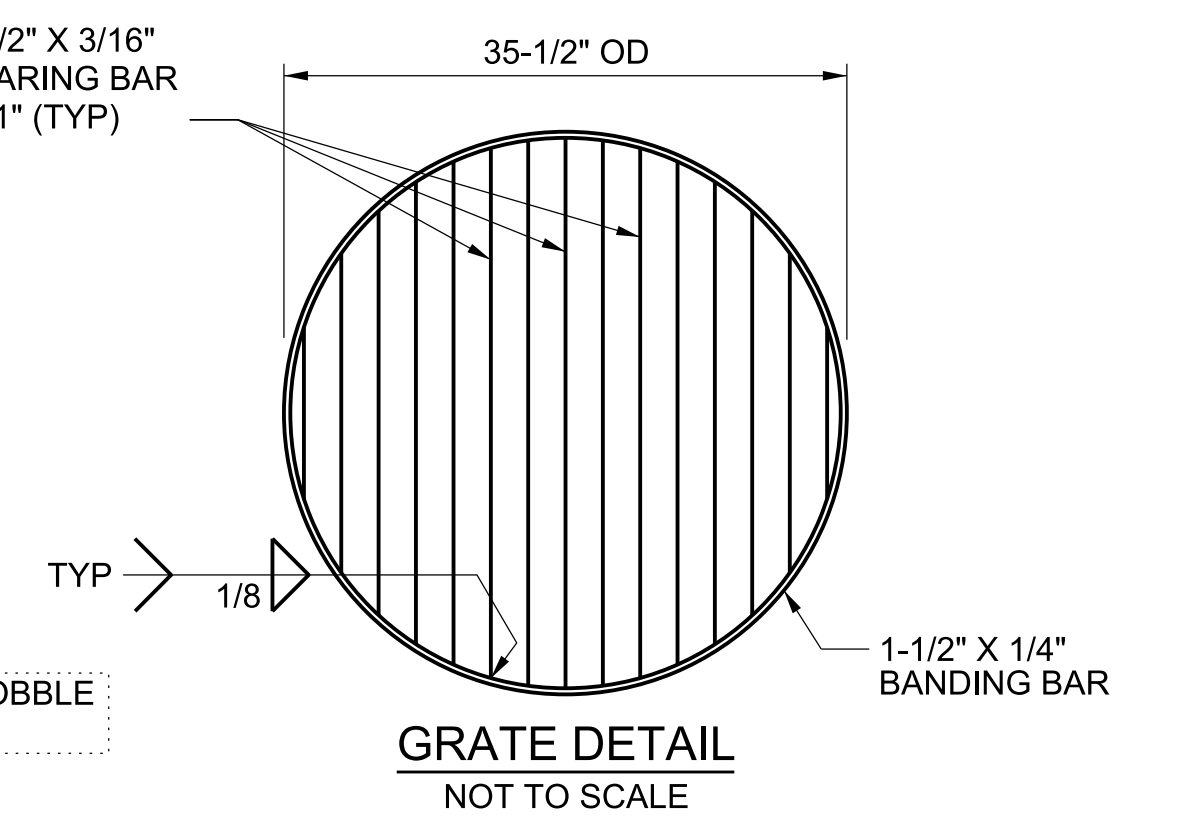
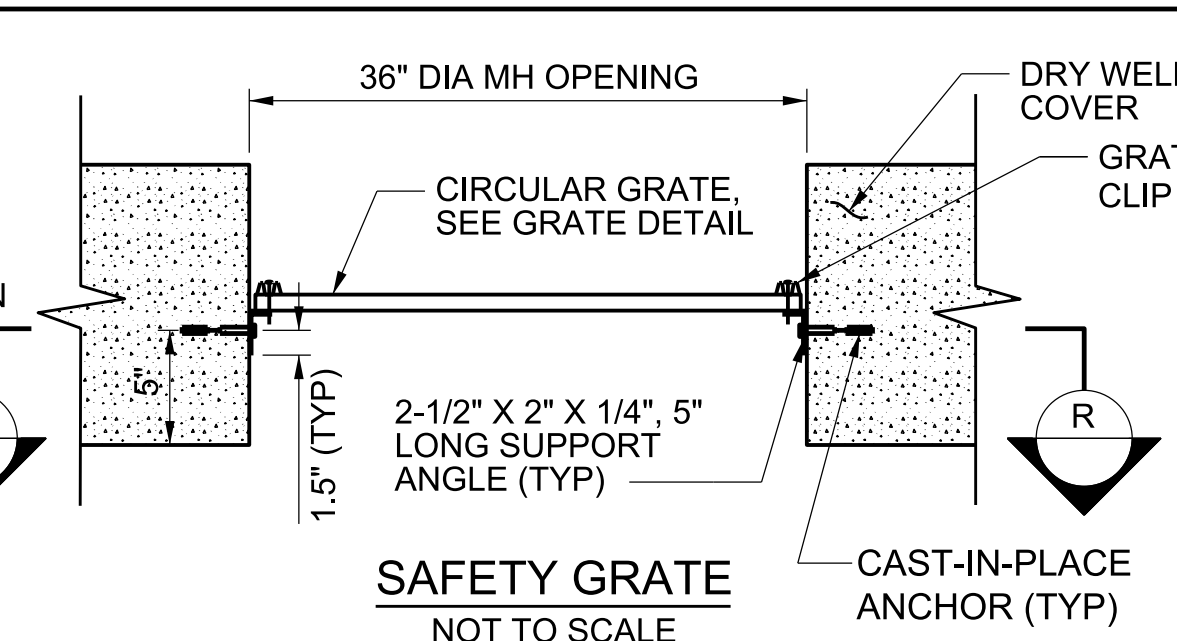
LACFCD INDEX NO. 116-D27 SHEET 2 OF 26



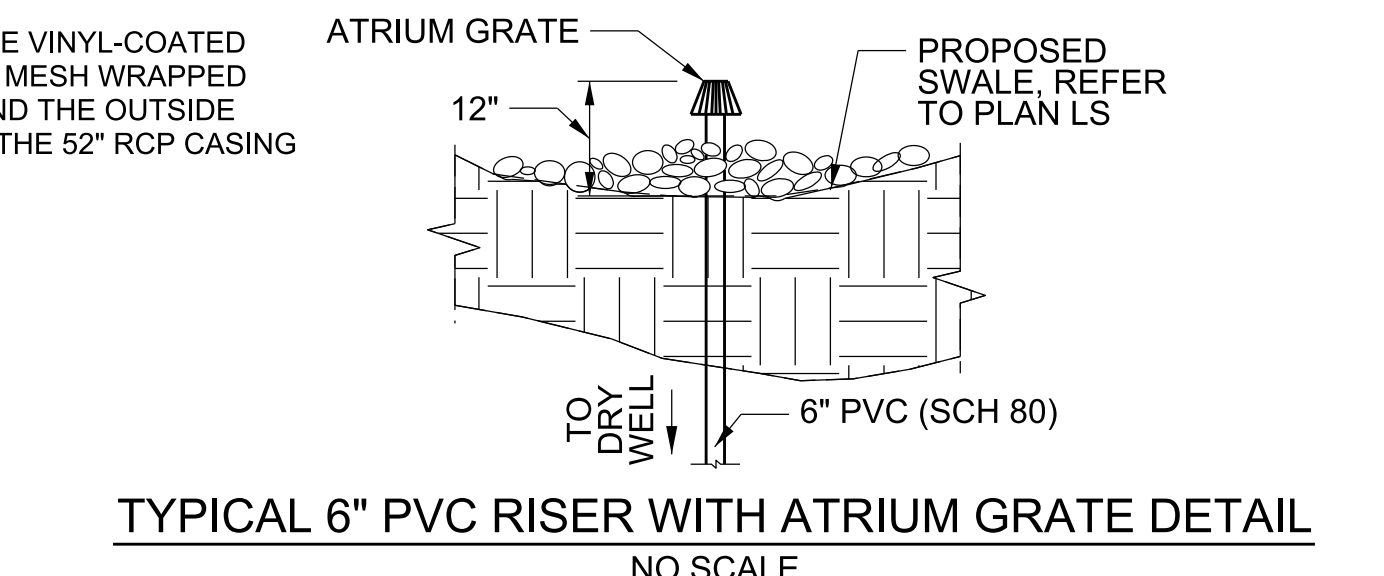
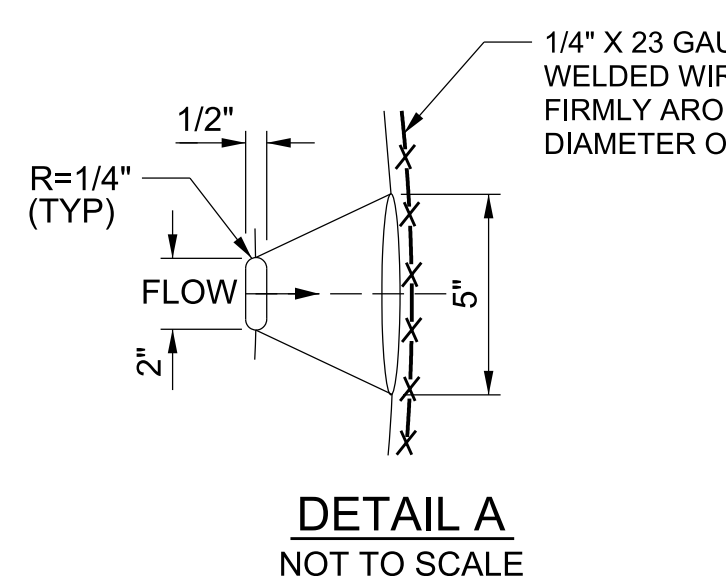
* THE NOMINAL OUTSIDE DIAMETER OF RCP CASING IS 60 INCHES. THE TONGUE AND GROOVE JOINT OF THE SOLID WALL RCP CASING SHALL FIT WITH THAT OF THE PERFORATED RCP CASING. THE FIRST RCP SECTION BEING PLACED SHALL HAVE THE TONGUE FACING DOWNWARD.
 ** THE MATERIAL OUTSIDE THE RCP DIFFERS PER THE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE SECTION SHOWN HEREON.



LEGEND
 [Hatched Pattern] STRUCTURE EXCAVATION LIMITS
 [Dotted Pattern] STRUCTURE BACKFILL LIMITS



- NOTES:**
- ALL CONNECTOR PIPES ARE TO BE RCP WITH A 2000 D-LOAD AND DRY WELL LINES ARE TO BE RCP WITH A D-LOAD AS SHOWN ON PROFILE. CONNECTOR PIPE DIAMETER IS AS SHOWN ON PROFILE. CONNECTOR PIPE LENGTH (L) IS AS SHOWN ON TABLES. INVERT ELEVATION OF CONNECTOR PIPE INLET (ELEVATION A) IS AS SHOWN ON TABLES. CONNECTOR PIPE SLOPE IS AS SHOWN ON TABLES.
 - TO CONNECT THE RCP TO THE DRY WELLS, CORE OUT AN OPENING THROUGH THE WALL TO BE FLUSH WITH THE INTERIOR SURFACE AND WATERTIGHT SEAL THE ANNULAR SPACE WITH HIGH STRENGTH NON-SHRINK CONCRETE REPAIR.
 - LENGTH OF THE SOLID WALL RCP CASING ("H") IS AS SHOWN ON PROFILE AND TABLES. LENGTH OF THE PERFORATED WALL RCP CASING ("D") IS AS SHOWN ON PROFILE AND TABLES.
 - THE ABOVE DETAIL IS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO TABLES ON PLAN TO INDICATE WHICH DRY WELL CASE PER SECTION C-C IS TO BE CONSTRUCTED.
 - ALL DRY WELLS TO BE CONSTRUCTED ON A 2" LAYER OF CLASS "D5" GRAVEL PACK FOR LEVELING.
 - REFER TO PLAN FOR LOCATION OF PVC RISERS THAT CONNECT TO DRY WELLS, DRY WELL LINES, AND CONNECTOR PIPES.
 - COORDINATES FOR CENTER OF DRY WELLS ARE AS SHOWN ON TABLES. ANY REVISIONS TO COORDINATES SHALL BE APPROVED BY THE ENGINEER.
 - TEMPORARY STEEL CASING SHALL BE UTILIZED TO CONSTRUCT ALL DRY WELLS.



CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU / L. CHAVEZ

DATE	MK	DESCRIPTION

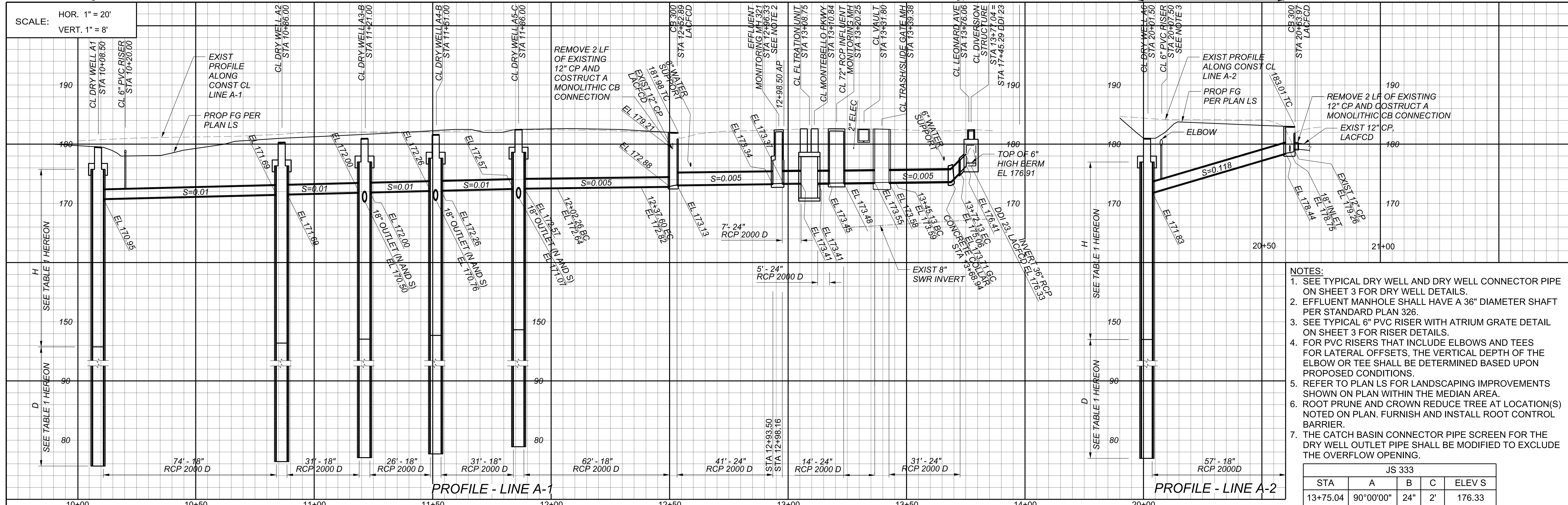
PROFESSIONAL ENGINEER
 CHRISTOPHER RAVE
 C 84117
 CIVIL
 STATE OF CALIFORNIA
 Chris Rave 07/10/18
 PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
 LID DETAILS
 PROJECT ID NO. WMU0000010
 LACFCD INDEX NO. 116-D27
 SHEET 3 OF 26

NOT TO BE OWNED BY LACFC
 $Q_{85TH} = 3.19$ CFS

NOT TO BE OWNED BY LACFC

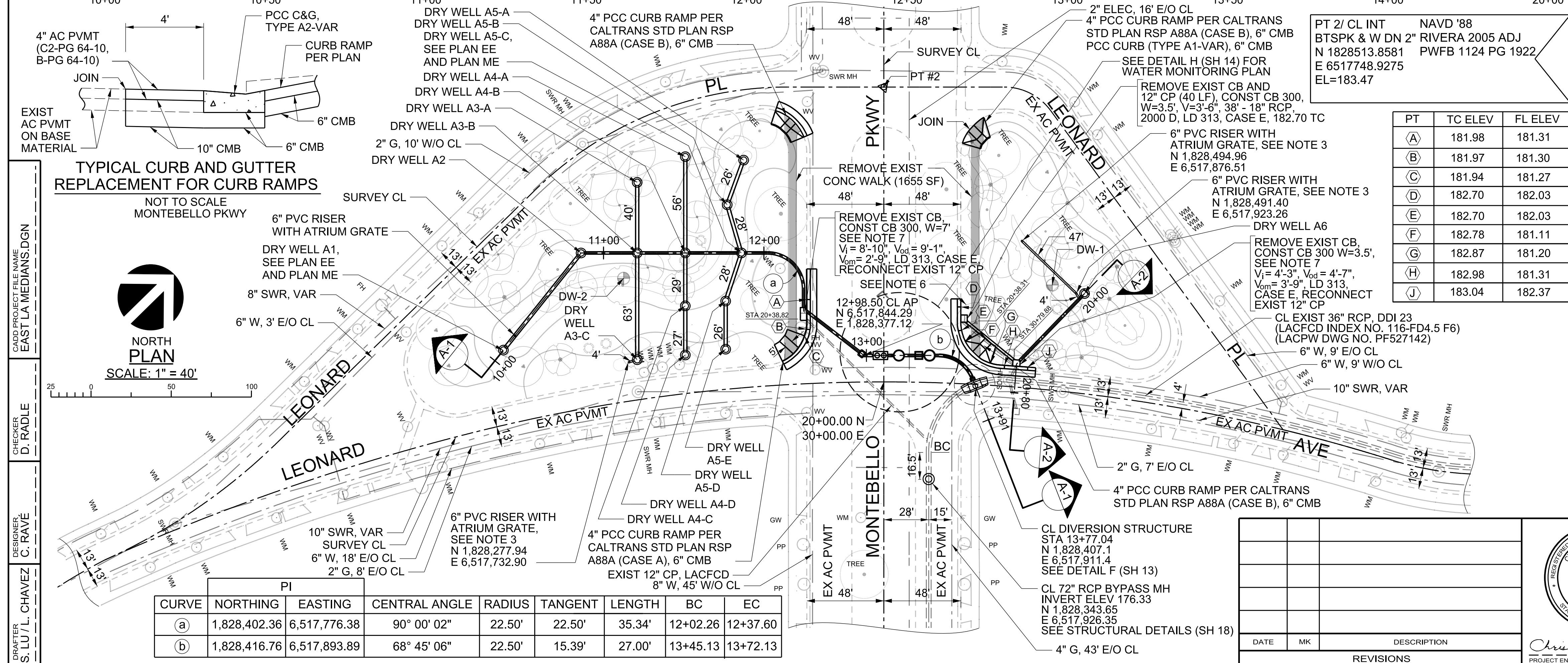
NOT TO BE OWNED BY LACFC
 $Q_{85TH} = 0.23$ CFS



- NOTES:**
- SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
 - EFFLUENT MANHOLE SHALL HAVE A 36" DIAMETER SHAFT PER STANDARD PLAN 326.
 - SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
 - FOR PVC RISERS THAT INCLUDE ELBOWS AND TEES FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW OR TEE SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
 - REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.
 - ROOT PRUNE AND CROWN REDUCE TREE AT LOCATION(S) NOTED ON PLAN. FURNISH AND INSTALL ROOT CONTROL BARRIER.
 - THE CATCH BASIN CONNECTOR PIPE SCREEN FOR THE DRY WELL OUTLET PIPE SHALL BE MODIFIED TO EXCLUDE THE OVERFLOW OPENING.

JS 333

STA	A	B	C	ELEV S
13+75.04	90°00'00"	24'	2'	176.33



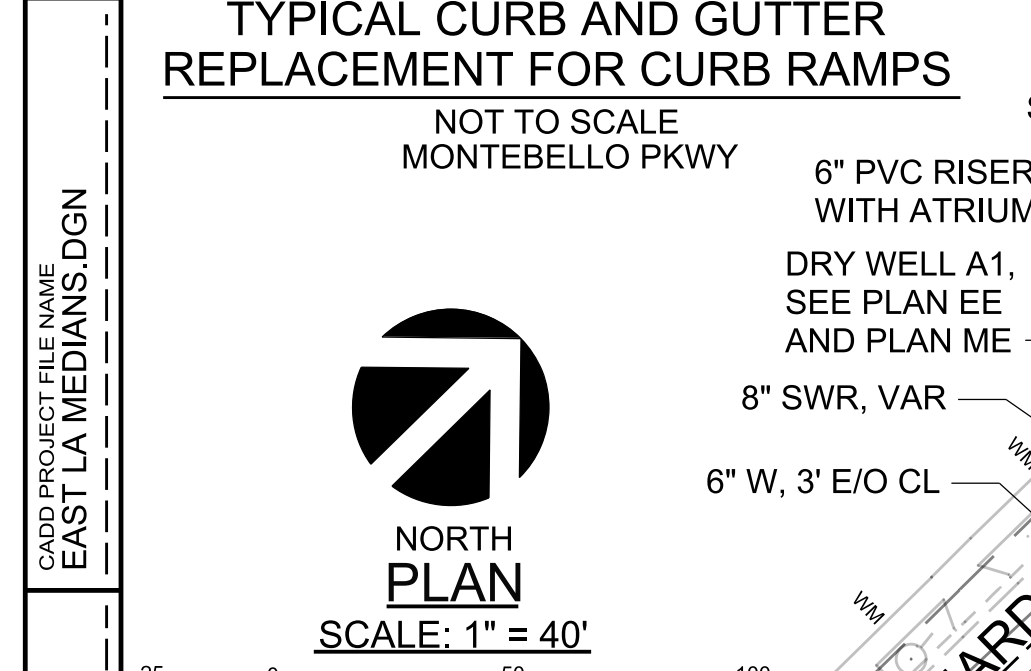
DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T	CONNECTOR PIPE
							ELEV A S L
A1	1,828,236.30	6,517,670.92	1	30'	70'	176.7	- - -
A2	1,828,313.80	6,517,669.57	2	30'	70'	177.3	- - -
A3-A	1,828,370.01	6,517,668.43	3	30'	70'	178.2	170.10 0.01 40'
A3-B	1,828,336.14	6,517,696.52	2	30'	70'	178.0	- - -
A3-C	1,828,284.95	6,517,738.96	2	30'	70'	177.3	169.87 0.01 63'
A4-A	1,828,401.47	6,517,681.31	3	30'	70'	178.4	170.20 0.01 56'
A4-B	1,828,355.29	6,517,719.61	2	30'	70'	178.6	- - -
A4-C	1,828,329.88	6,517,740.66	3	30'	70'	177.8	170.47 0.01 29'
A4-D	1,828,306.33	6,517,760.20	2	30'	70'	178.2	170.20 0.01 27'
A5-A	1,828,423.01	6,517,710.71	2	30'	70'	180.2	170.53 0.01 26'
A5-B	1,828,395.06	6,517,720.58	2	30'	70'	179.5	170.79 0.01 28'
A5-C	1,828,377.63	6,517,746.55	1	30'	70'	179.5	- - -
A5-D	1,828,348.24	6,517,758.11	2	30'	70'	178.6	170.79 0.01 28'
A5-E	1,828,325.14	6,517,777.26	1	30'	70'	179.2	170.53 0.01 26'
A6	1,828,494.65	6,517,927.45	2	30'	70'	178.0	- - -

TABLE 1
 DRY WELLS LINES A-1 AND A-2
 ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

RESURFACING SCHEDULE

LOCATION	EXIST PVMT	RESURF PVMT
STA 12+62 TO STA 13+81	2" AC ON 6" CMB	3" AC ON 6" CMB

AC SHALL BE 2" OF C2-PG 64-10 ON 1" OF B-PG 64-10.



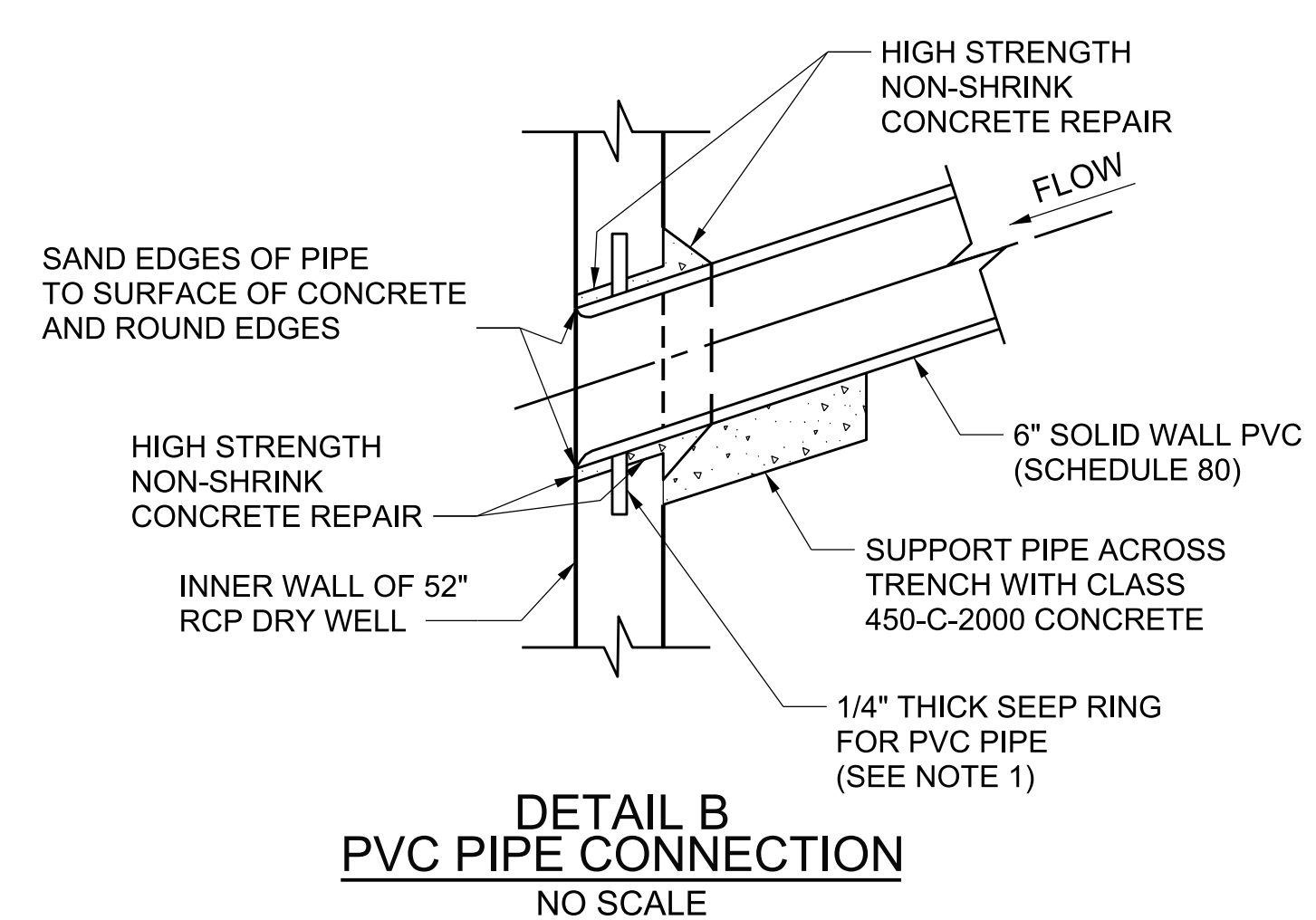
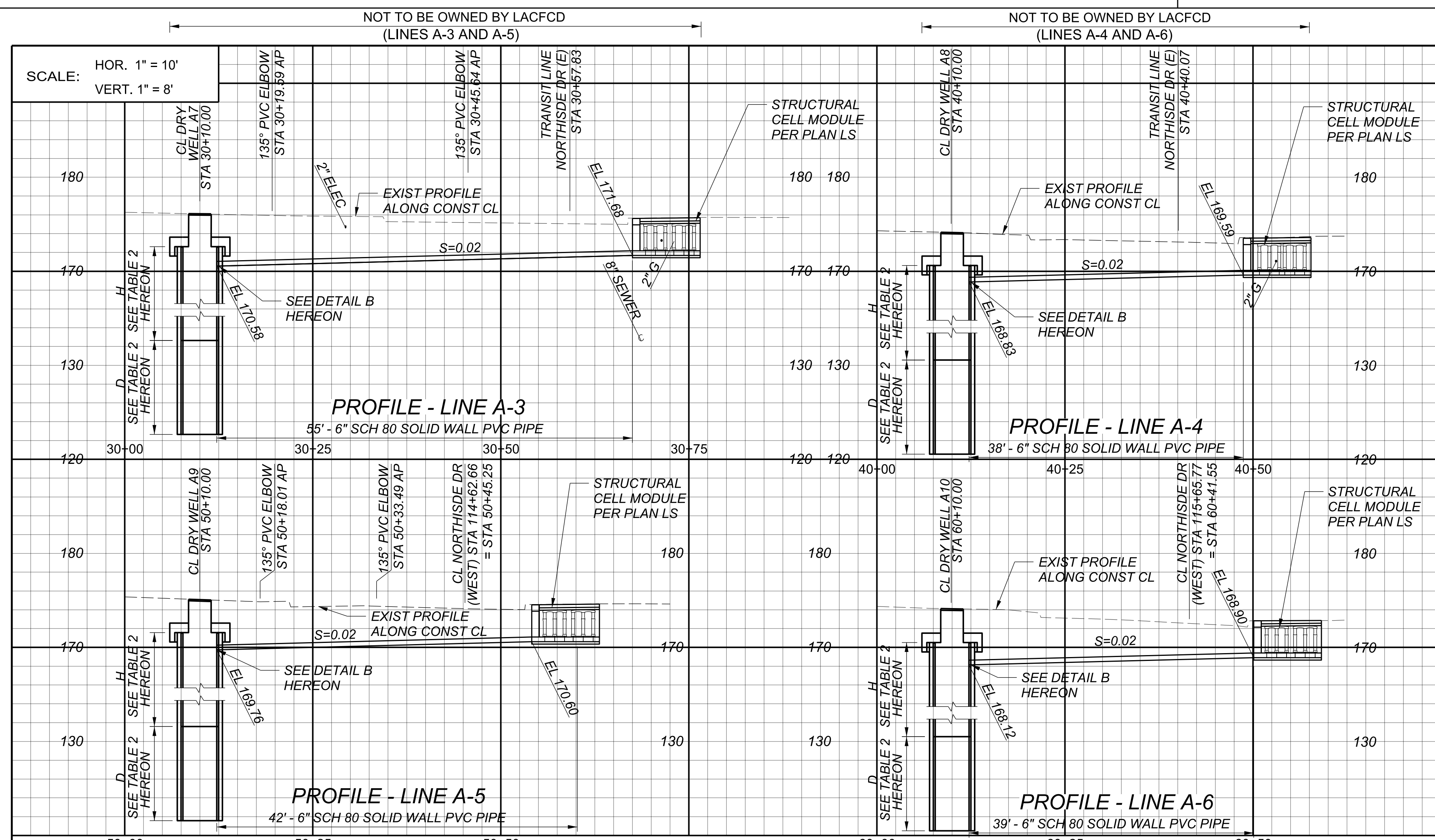
CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU/L. CHAVEZ

CURVE	NORTHING	EASTING	CENTRAL ANGLE	RADIUS	TANGENT	LENGTH	BC	EC
(a)	1,828,402.36	6,517,776.38	90° 00' 02"	22.50'	22.50'	35.34'	12+02.26	12+37.60
(b)	1,828,416.76	6,517,893.89	68° 45' 06"	22.50'	15.39'	27.00'	13+45.13	13+72.13

DATE	MK	DESCRIPTION

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
 PLAN AND PROFILE
 MONTEBELLO PKWY DRY WELLS LINES A-1 AND A-2
 PROJECT ID NO. WMU0000010

07/10/18
 PROJECT ENGINEER: Chris Rave



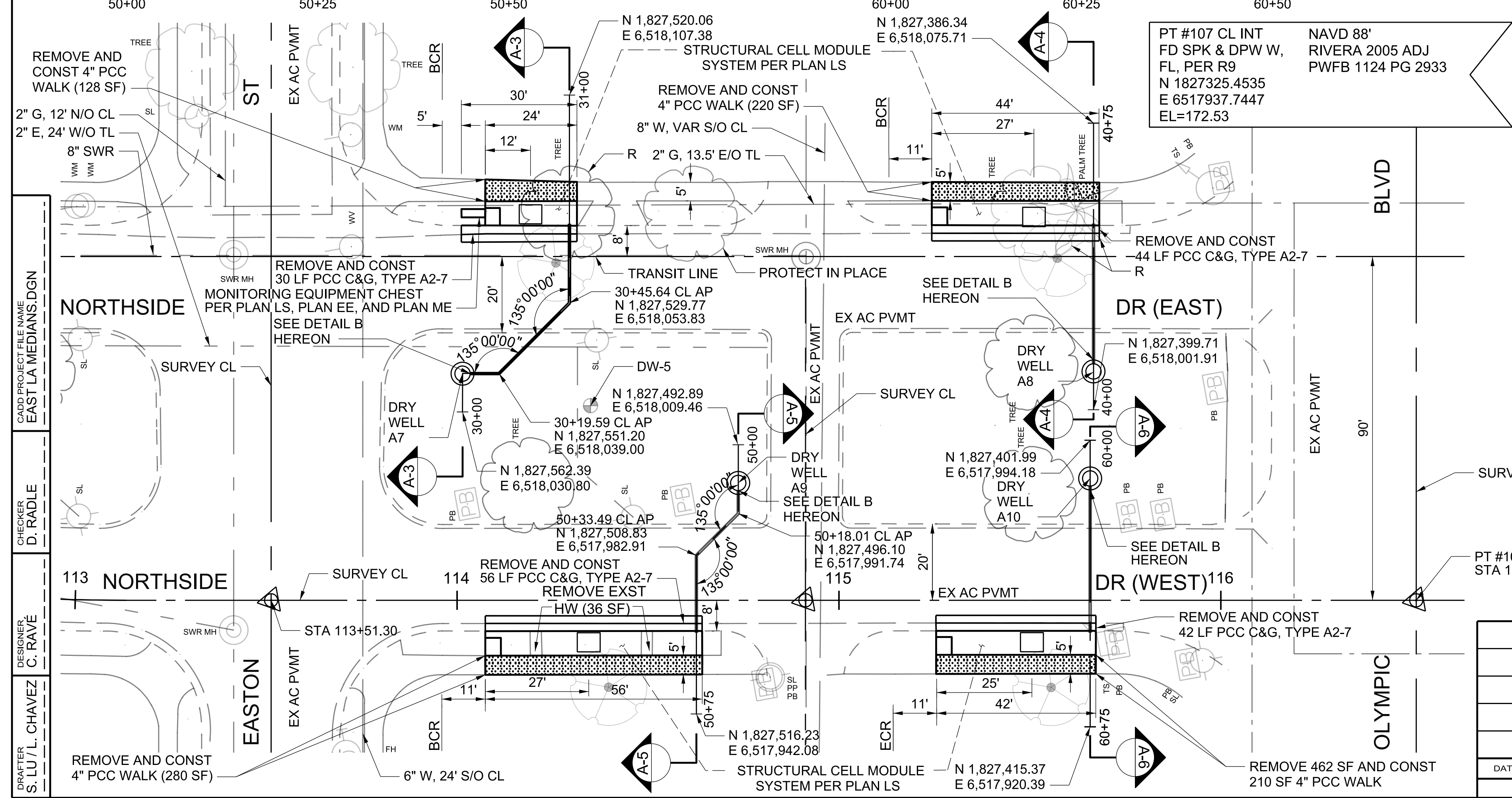
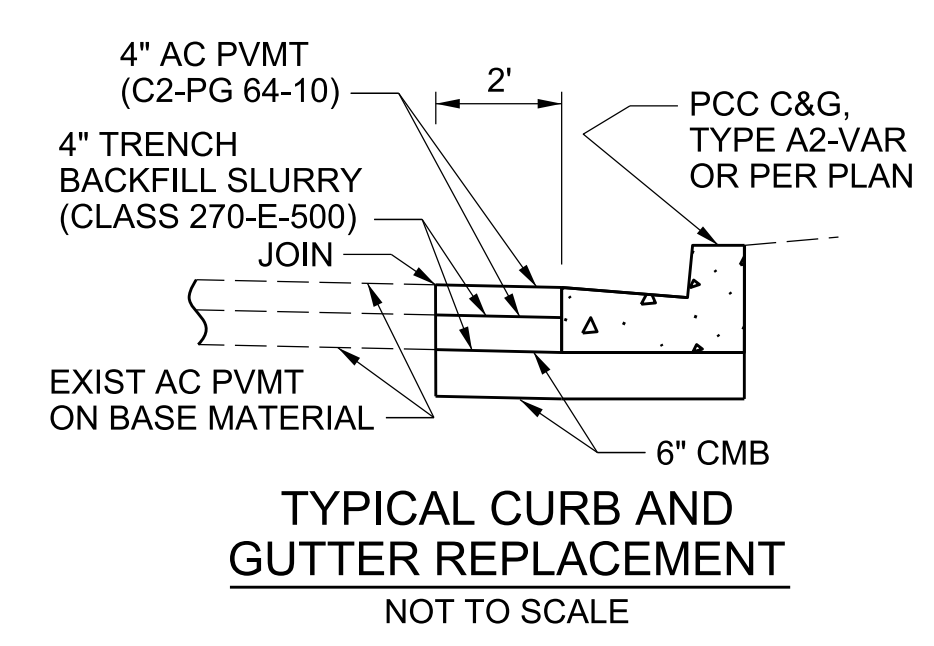
DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
A7	1,827,560.61	6,518,040.65	1	40'	10'	173.6
A8	1,827,397.93	6,518,011.75	1	40'	10'	171.6
A9	1,827,494.67	6,517,999.62	1	40'	10'	172.5
A10	1,827,403.78	6,517,984.35	1	40'	10'	171.5

TABLE 2
 DRY WELLS LINES A-3, A-4, A-5, AND A-6
 ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

RESURFACING SCHEDULE		
LOCATION	EXIST PVMT	RESURF PVMT
STA 30+36 TO STA 30+62	4" AC ON 10" CMB	5" AC ON 10" CMB
STA 40+21 TO STA 40+44	4" AC ON 10" CMB	5" AC ON 10" CMB
STA 50+23 TO STA 50+49	4" AC ON 10" CMB	5" AC ON 10" CMB
STA 60+23 TO STA 60+46	4" AC ON 10" CMB	5" AC ON 10" CMB

AC SHALL BE 2" OF C2-PG 64-10 ON 3" OF B-PG 64-10.

- NOTES:
- FOR PVC PIPE CONNECTIONS SHOWN ON DETAIL B, HOT AIR WELD THE SEEP RING TO THE PVC PIPE ALL AROUND THE PIPE.
 - SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
 - REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE PARKWAY AREA.



CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU / L. CHAVEZ

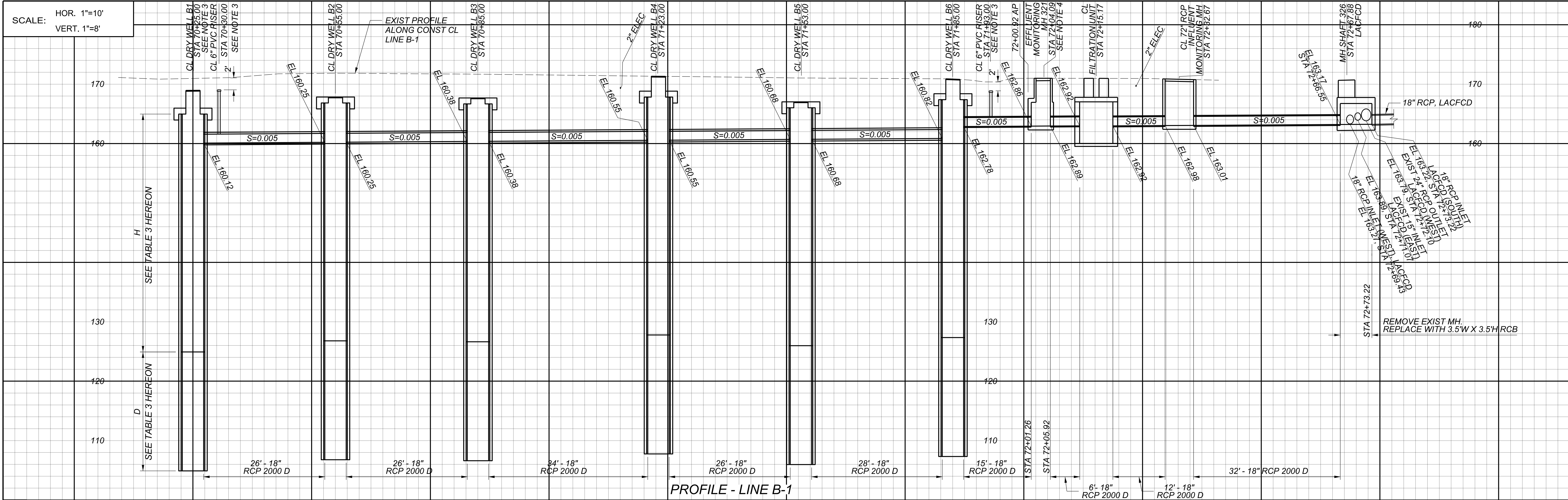
DATE	MK	DESCRIPTION

NORTH PLAN
 SCALE: 1" = 20'
 PROJECT ENGINEER: *Chris Rave* 07/10/18
 DATE: 07/10/18

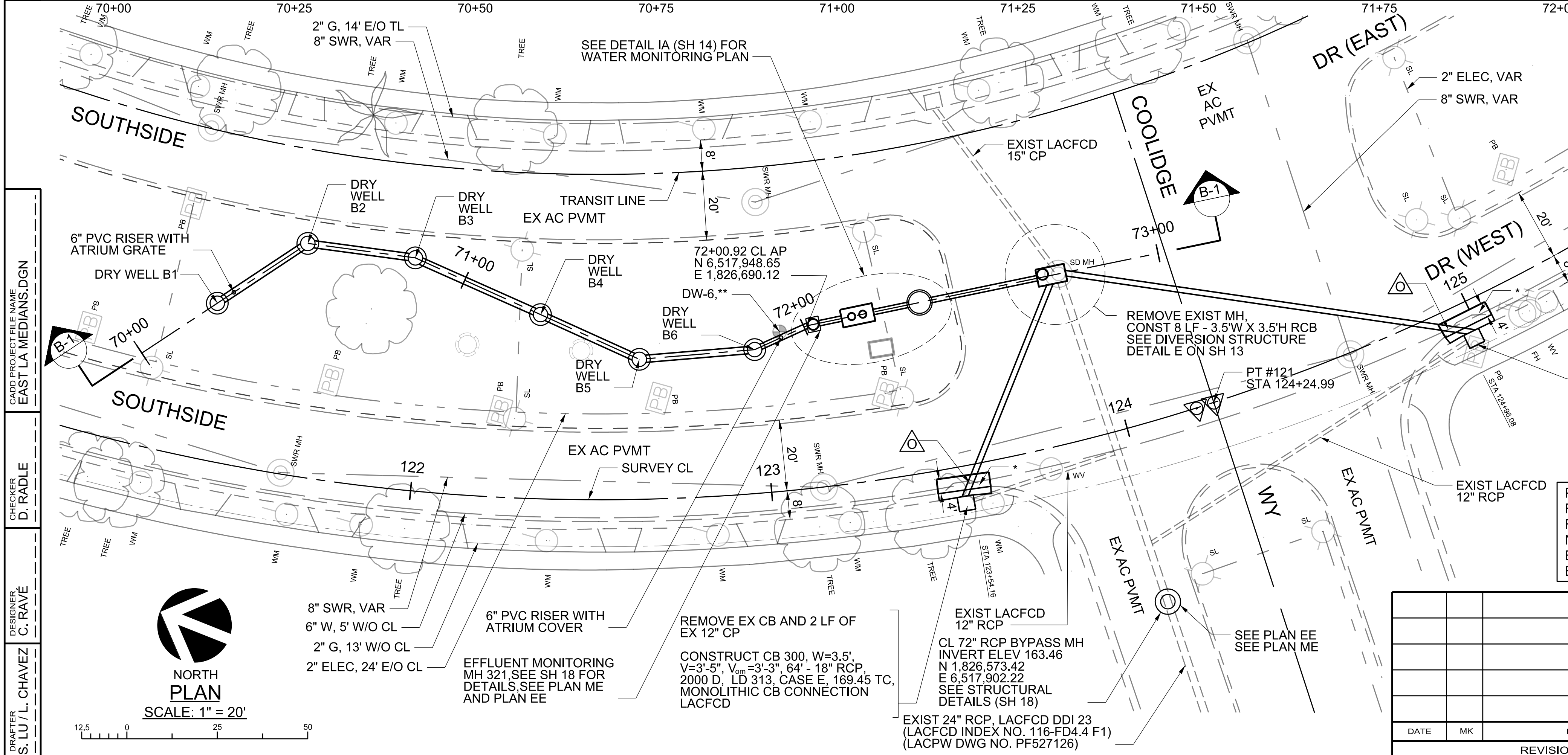
LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT PLAN AND PROFILE
 NORTHSIDE DR STRUCTURAL CELL MODULES AND DRY WELLS, LINES A-3, A-4, A-5, AND A-6
 PROJECT ID NO. WMU000010

LACFCO INDEX NO. 116-D27
 SHEET 5 OF 26

SCALE: HOR. 1"=10'
VERT. 1"=8'



PROFILE - LINE B-1



CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAWN: S. LU/L. CHAVEZ

- NOTES:
- SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
 - SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
 - THE CAPS FOR 6" PVC RISERS AND THE CASE 2 DRY WELL MH COVER SHALL BE 2' BELOW SURFACE TO ACCOMMODATE FUTURE LANDSCAPING IMPROVEMENTS.
 - EFFLUENT MONITORING MANHOLE SHALL HAVE A 36" DIAMETER SHAFT PER STANDARD PLAN 326.
- * 4" AC PVMT (C2-PG 64-10, B-PG 64-10) ON 10" CMB
** MONITORING WELL AFFECTED BY TRENCH WORK WILL BE REMOVED, INCLUDING THE PVC PIPE AND CONCRETE CAP.

RESURFACING SCHEDULE		
LOCATION	EXIST PVMT	RESURF PVMT
STA 72+44 TO STA 72+76	4" AC ON 10" CMB	5" AC ON 10" CMB
NW CB CP AT STA 123+54	4" AC ON 10" CMB	5" AC ON 10" CMB
SW CB CP AT STA 124+96	4" AC ON 10" CMB	5" AC ON 10" CMB

AC SHALL BE 2" OF C2-PG 64-10 ON 3" OF B-PG 64-10.

JS 333				
LOCATION	STATION	A	B	C
18" RCP INLET (WEST)	72+69.43	56° 31' 41"	18"	3'
15" RCP INLET (EAST)	72+71.07	64° 50' 33"	15"	3'
24" RCP OUTLET (WEST)	72+72.10	83° 14' 11"	24"	2'

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
B1	1,826,848.79	6,517,910.51	2	40'	20'	165.9
B2	1,826,829.17	6,517,933.21	3	40'	20'	167.8
B3	1,826,799.47	6,517,937.42	3	40'	20'	167.6
B4	1,826,761.90	6,517,931.69	1	40'	20'	168.7
B5	1,826,732.24	6,517,927.17	3	40'	20'	166.9
B6	1,826,702.28	6,517,938.40	1	40'	20'	168.3

TABLE 3
DRY WELLS LINE B-1
ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PLAN AND PROFILE
SOUTHSIDE DR DRY WELLS AND DIVERSION LINE LINE B-1
PROJECT ID NO. WMU0000010

DATE	MK	DESCRIPTION

PROFESSIONAL SEAL
CHRISTOPHER RAVE
C 84117
CIVIL ENGINEER
STATE OF CALIFORNIA

Chris Rave 07/10/18
PROJECT ENGINEER DATE

NOT TO BE OWNED BY LACFCO
Q_{85TH} = 8.09 CFS

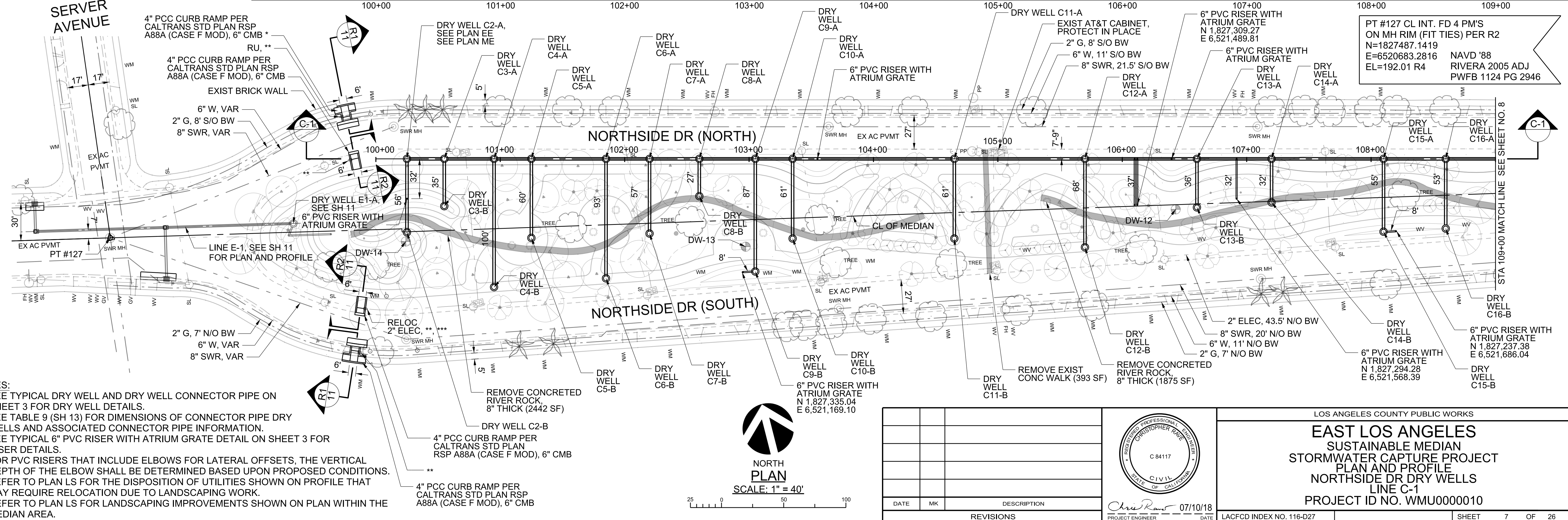
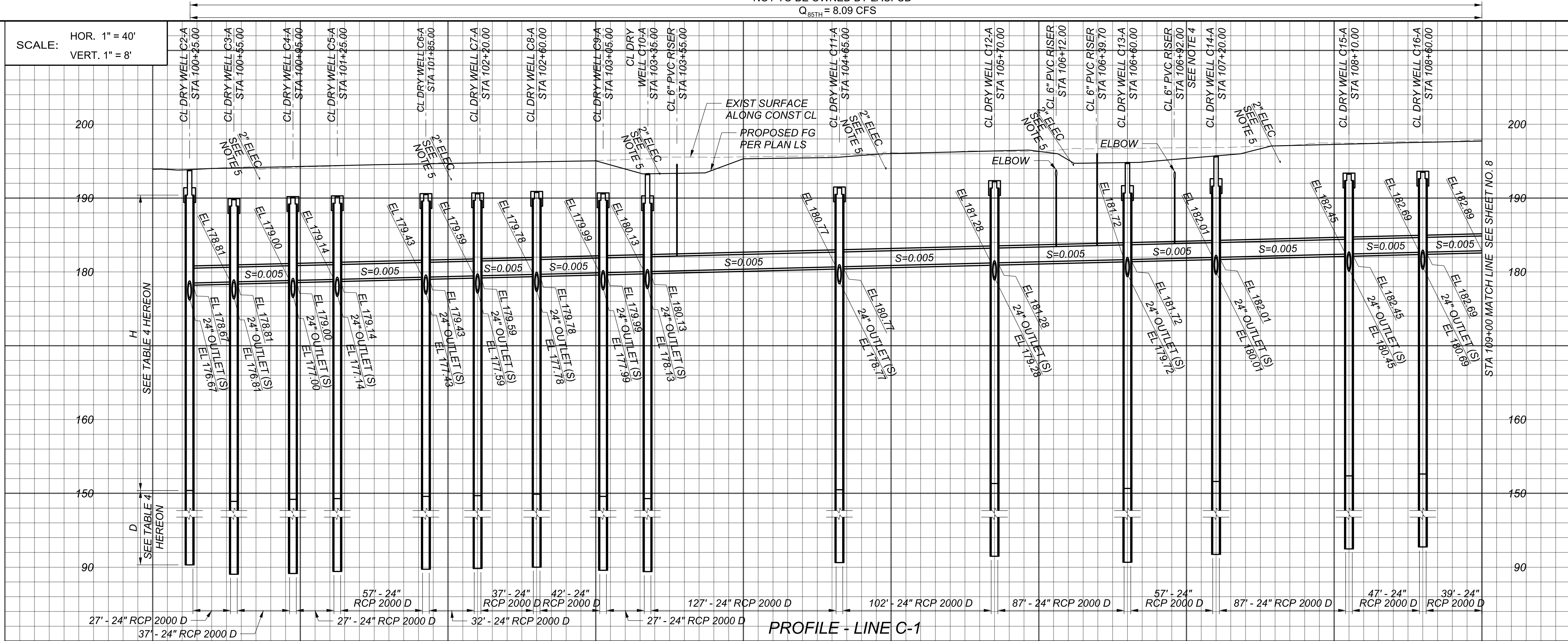
DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
C2-A	1,827,489.84	6,520,929.98	1	40'	60"	191.4
C3-A	1,827,482.44	6,520,959.05	3	40'	60"	190.0
C4-A	1,827,472.57	6,520,997.81	3	40'	60"	190.2
C5-A	1,827,465.17	6,521,026.88	3	40'	60"	190.3
C6-A	1,827,450.36	6,521,085.03	3	40'	60"	190.6
C7-A	1,827,441.73	6,521,118.95	3	40'	60"	190.7
C8-A	1,827,431.86	6,521,157.71	3	40'	60"	190.9
C9-A	1,827,420.75	6,521,201.32	3	40'	60"	190.7
C10-A	1,827,413.35	6,521,230.39	2	40'	60"	190.3
C11-A	1,827,381.28	6,521,356.37	3	40'	60"	191.5
C12-A	1,827,355.37	6,521,458.13	3	40'	60"	192.3
C13-A	1,827,333.16	6,521,545.34	2	40'	60"	191.7
C14-A	1,827,318.36	6,521,603.49	2	40'	60"	192.6
C15-A	1,827,296.15	6,521,690.71	3	40'	60"	193.3
C16-A	1,827,283.82	6,521,739.16	3	40'	60"	193.5

TABLE 4
DRY WELLS LINE C-1

ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

NOTES:

- * CONTRACTOR SHALL REMOVE INTERFERING WALL FOOTING AND JOIN RAMP TO EXISTING BRICK WALL
- ** PROPOSED PEDESTRIAN SIGNAL PER PLAN SP
- *** FOR SCE ELECTRICAL CONDUIT RELOCATION, THE CONTRACTOR SHALL CONTACT THE SCE PLANNER (NOELLE PETERSON) AT (310) 608-5162 TO COORDINATE THE WORK THAT NEEDS TO BE PERFORMED.



NOTES:

1. SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
2. SEE TABLE 9 (SH 13) FOR DIMENSIONS OF CONNECTOR PIPE DRY WELLS AND ASSOCIATED CONNECTOR PIPE INFORMATION.
3. SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
4. FOR PVC RISERS THAT INCLUDE ELBOWS FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
5. REFER TO PLAN LS FOR THE DISPOSITION OF UTILITIES SHOWN ON PROFILE THAT MAY REQUIRE RELOCATION DUE TO LANDSCAPING WORK.
6. REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.



DATE	MK	DESCRIPTION

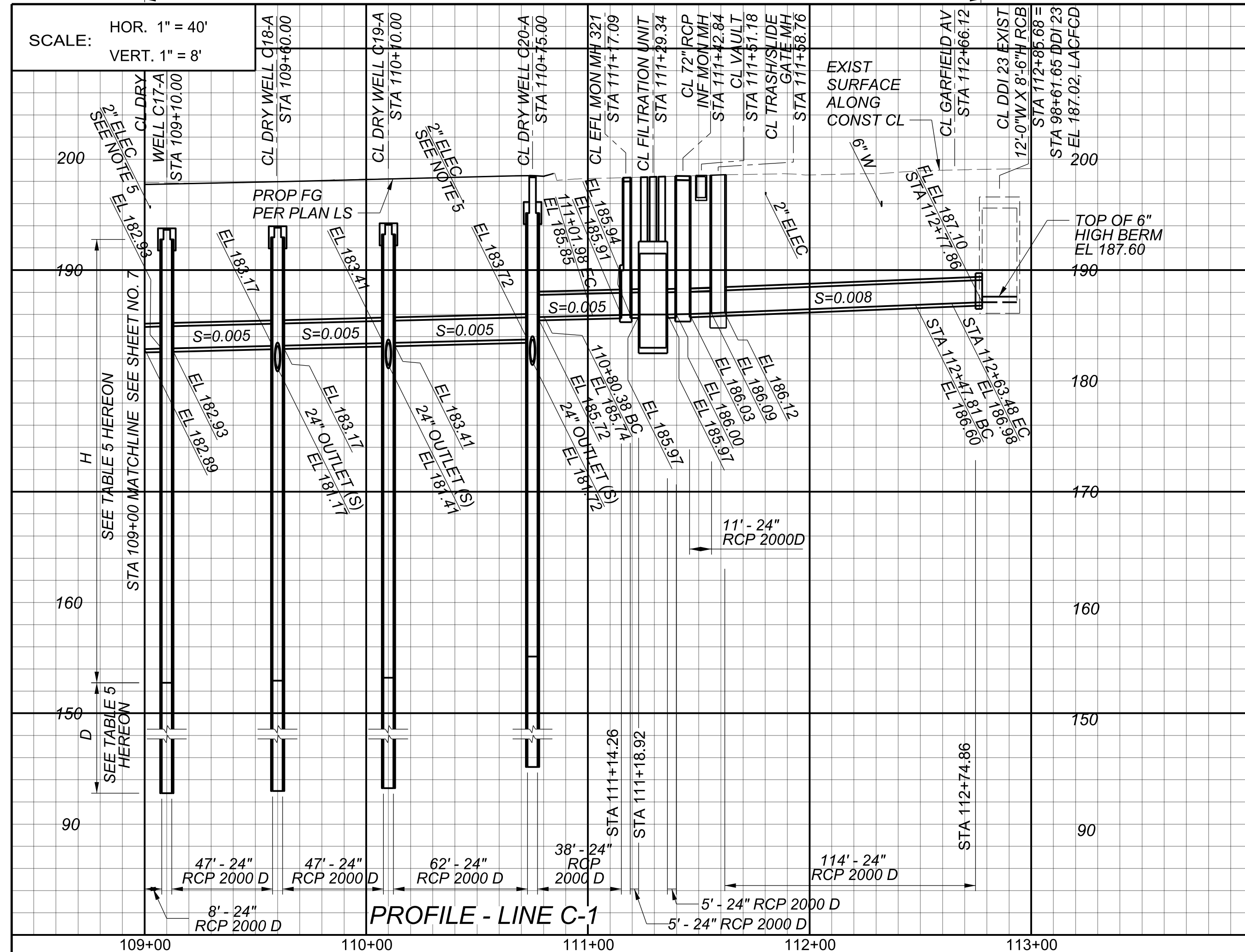
PROFESSIONAL SEAL
REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA
C 84117
Christopher Rame
07/10/18
PROJECT ENGINEER

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT
PLAN AND PROFILE
NORTHSIDE DR DRY WELLS
LINE C-1
PROJECT ID NO. WMU0000010

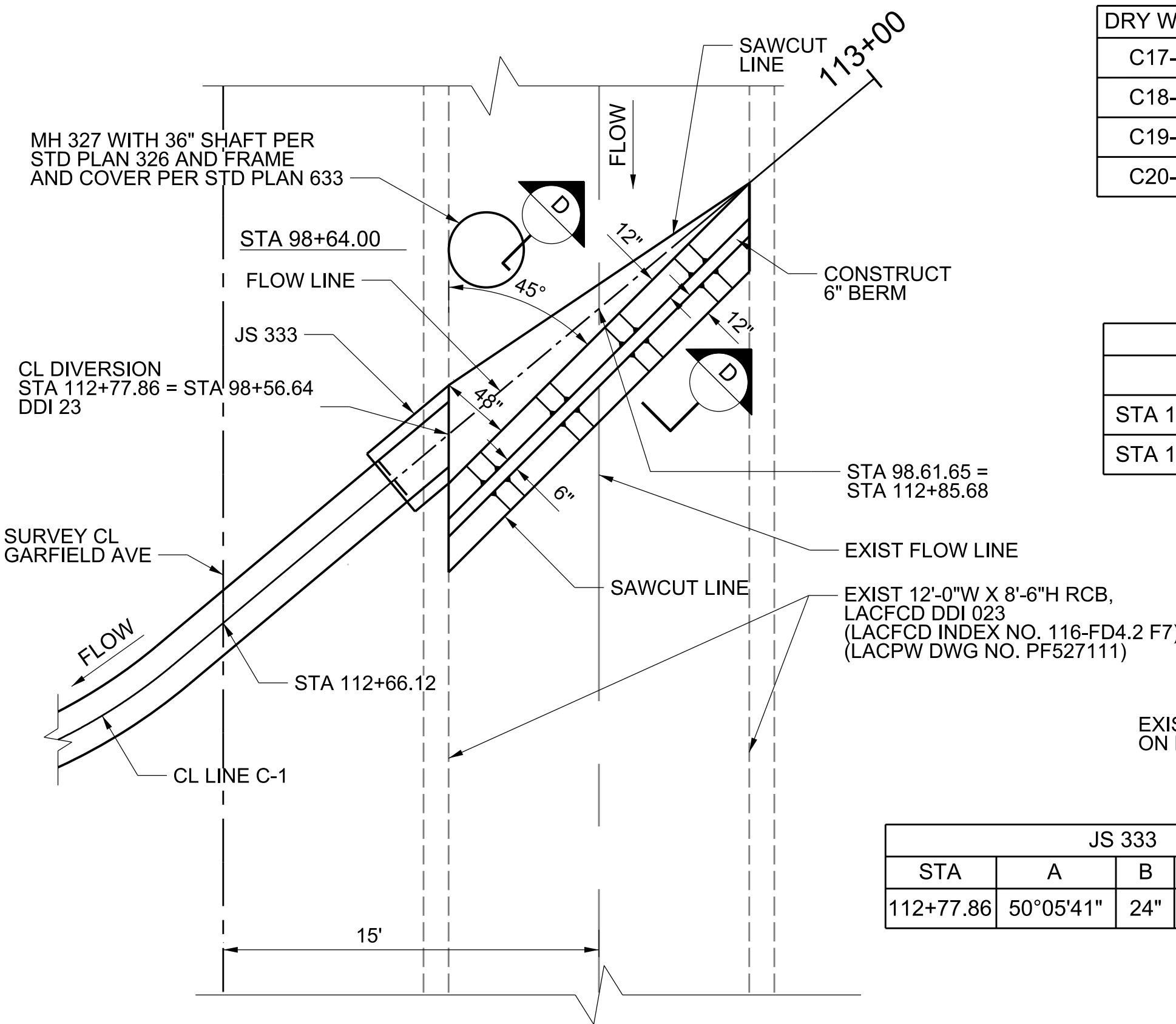
LACFCO INDEX NO. 116-D27
SHEET 7 OF 26

CAD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU/L. CHAVEZ

NOT TO BE OWNED BY LACFCD
 $Q_{85TH} = 8.09 \text{ CFS}$



PROFILE - LINE C-1



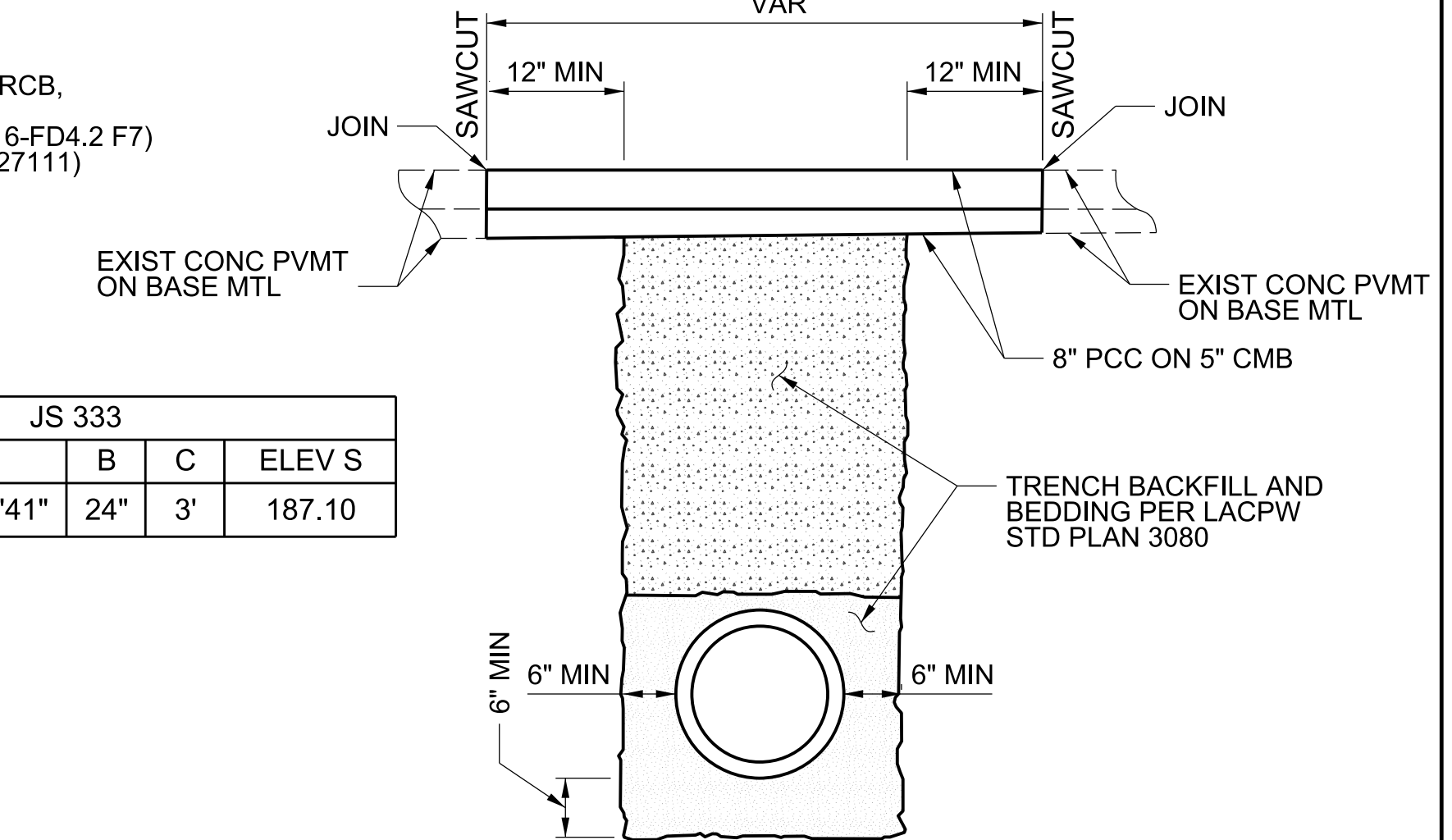
DETAIL C
 DIVERSION BERM
 NOT TO SCALE

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
C17-A	1,827,271.48	6,521,787.61	3	40'	60'	193.7
C18-A	1,827,259.14	6,521,836.07	3	40'	60'	193.9
C19-A	1,827,246.81	6,521,884.52	3	40'	60'	194.2
C20-A	1,827,230.77	6,521,947.51	1	40'	60'	196.1

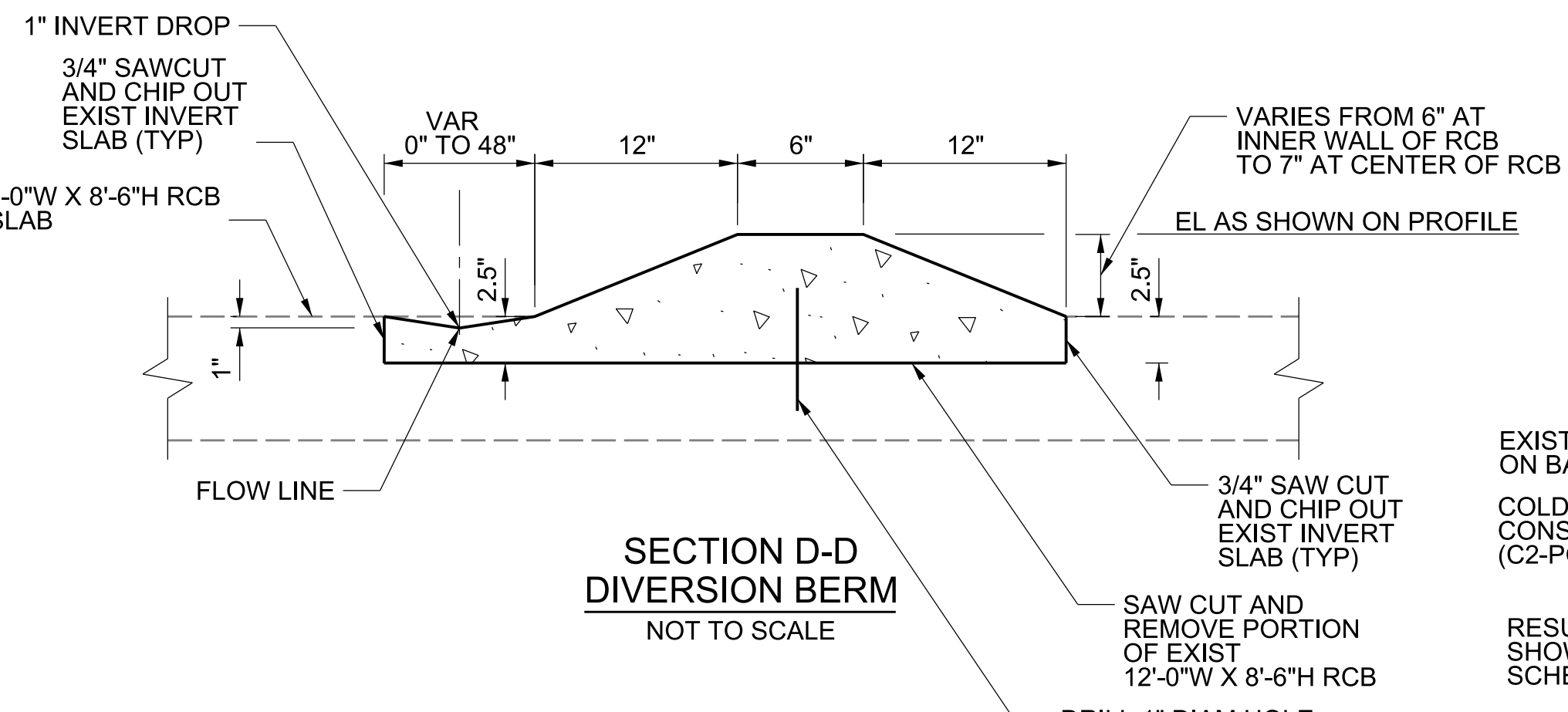
TABLE 5
 DRY WELLS LINE C-1
 ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

RESURFACING SCHEDULE		
LOCATION	EXIST PVMT	RESURF PVMT
STA 110+86 TO STA 111+98	4" AC ON 4" CMB	5" AC ON 4" CMB
STA 112+30 TO STA 112+78	8" CONC ON 5" CMB	8" PCC ON 5" CMB

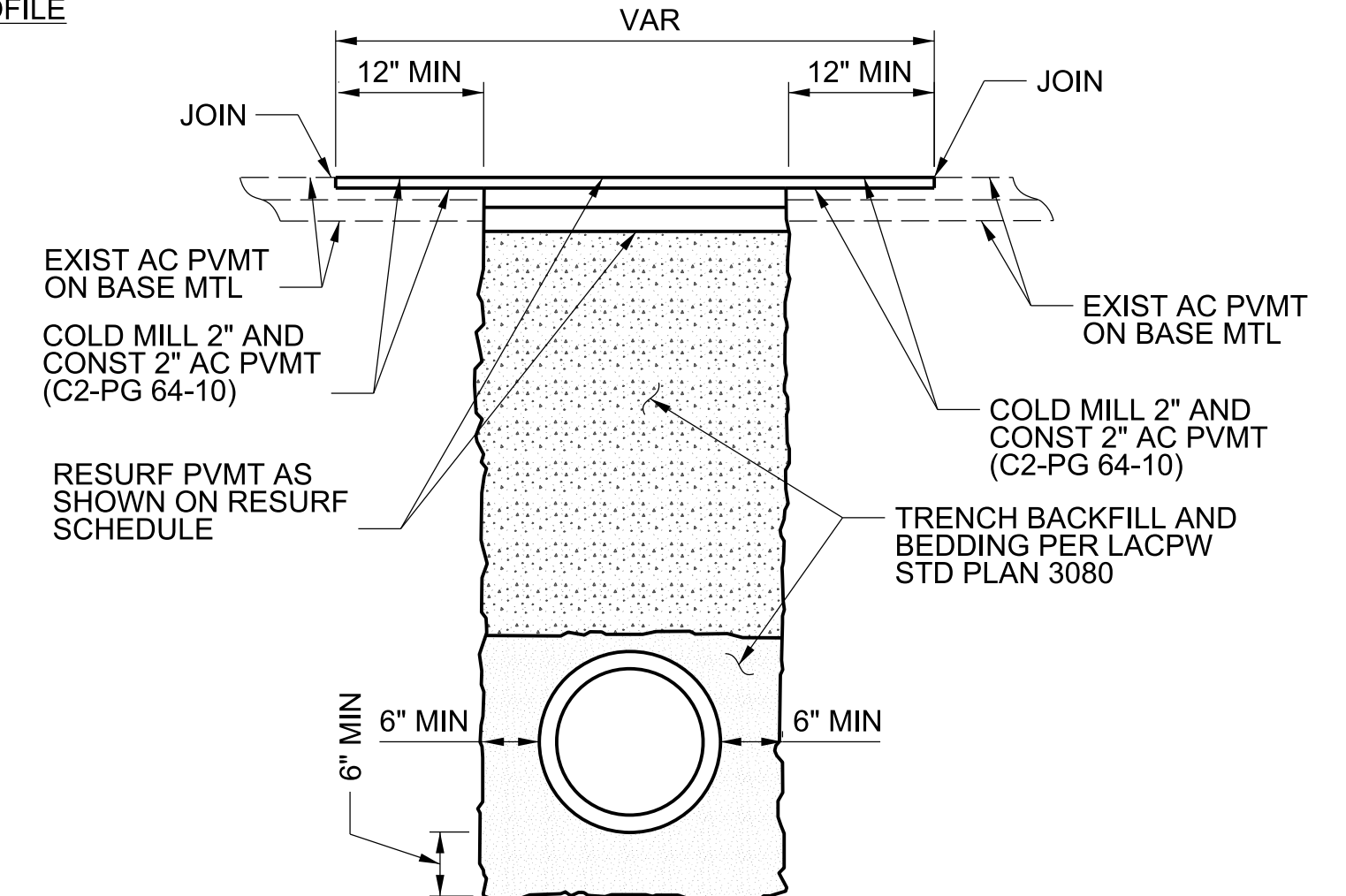
AC SHALL BE 2" OF C2-PG 64-10 ON 3" OF B-PG 64-10.



TYPICAL PIPE TRENCH DETAIL
 FOR PCC PAVEMENT
 NO SCALE

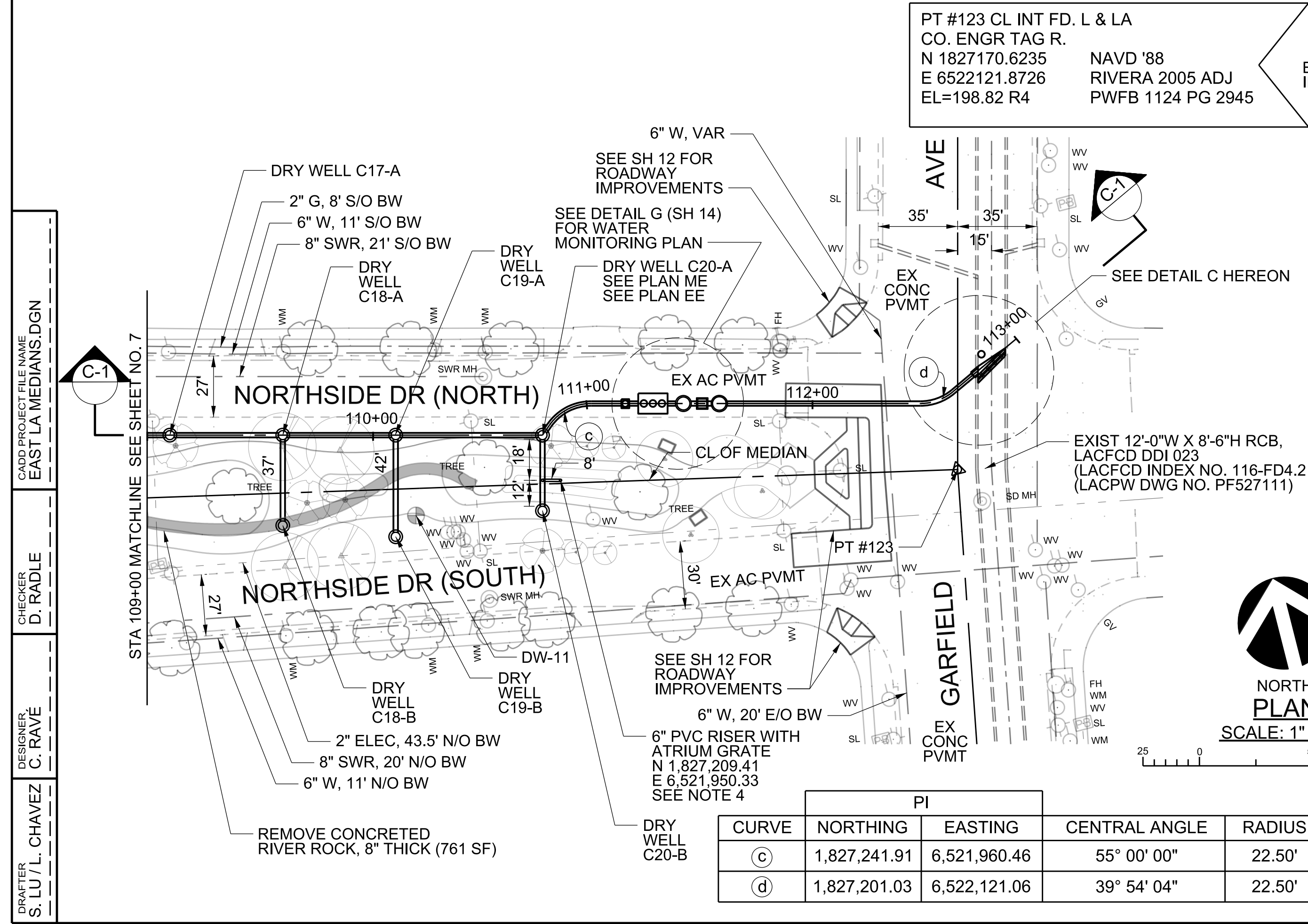


SECTION D-D
 DIVERSION BERM
 NOT TO SCALE



TYPICAL PIPE TRENCH DETAIL
 FOR AC PAVEMENT
 NO SCALE

- NOTES:
- SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
 - SEE TABLE 9 (SH 13) FOR DIMENSIONS OF DRY WELLS AND ASSOCIATED CONNECTOR PIPES.
 - SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
 - FOR PVC RISERS THAT INCLUDE ELBOWS FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
 - REFER TO PLAN LS FOR THE DISPOSITION OF UTILITIES SHOWN ON PROFILE THAT MAY REQUIRE RELOCATION DUE TO LANDSCAPING WORK.
 - REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.



NORTH
 PLAN
 SCALE: 1" = 40'

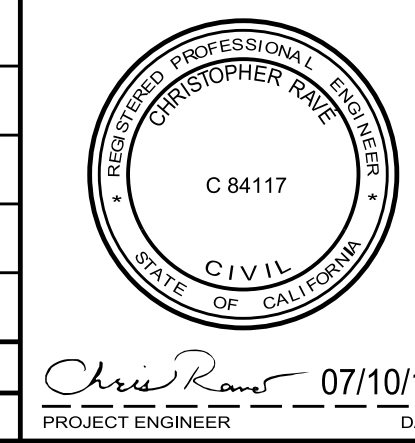
PI								
CURVE	NORTHING	EASTING	CENTRAL ANGLE	RADIUS	TANGENT	LENGTH	BC	EC
(c)	1,827,241.91	6,521,960.46	55° 00' 00"	22.50'	11.71'	21.60'	110+80.38	111+01.98
(d)	1,827,201.03	6,522,121.06	39° 54' 04"	22.50'	8.17'	15.67'	112+47.81	112+63.48

CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU / L. CHAVEZ

PT #123 CL INT FD. L & LA
 CO. ENGR TAG R.
 N 1827170.6235
 E 6522121.8726
 EL=198.82 R4

NAVD '88
 RIVERA 2005 ADJ
 PWFB 1124 PG 2945

DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 PLAN AND PROFILE
 NORTHSIDE DR DRY WELLS,
 GARFIELD AVE DIVERSION LINE, LINE C-1
 PROJECT ID NO. WMU0000010

DATE: 07/10/18
 PROJECT ENGINEER: Chris Rave

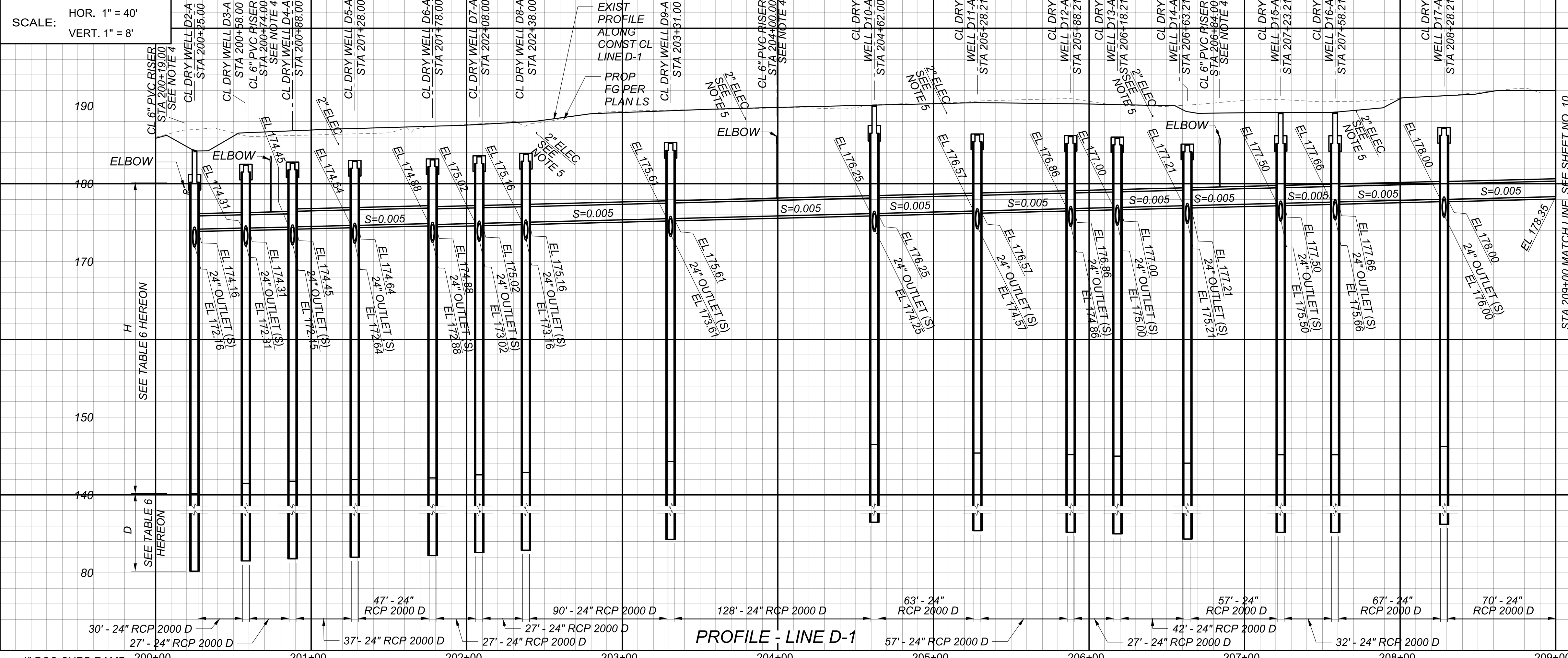
LACFCD INDEX NO. 116-D27 SHEET 8 OF 26

NOT TO BE OWNED BY LACFC
 Q_{85TH} = 7.73 CFS

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
D2-A	1,826,204.45	6,520,743.25	2	40'	60'	181.2
D3-A	1,826,198.57	6,520,775.72	3	40'	60'	182.5
D4-A	1,826,193.22	6,520,805.24	3	40'	60'	182.8
D5-A	1,826,186.09	6,520,844.60	3	40'	60'	183.0
D6-A	1,826,177.18	6,520,893.80	3	40'	60'	183.2
D7-A	1,826,171.84	6,520,923.32	3	40'	60'	183.6
D8-A	1,826,166.49	6,520,952.84	3	40'	60'	183.9
D9-A	1,826,149.91	6,521,044.34	3	40'	60'	185.3
D10-A	1,826,126.56	6,521,173.25	1	40'	60'	187.5
D11-A	1,826,141.29	6,521,237.80	3	40'	60'	186.4
D12-A	1,826,130.60	6,521,296.84	3	40'	60'	186.2
D13-A	1,826,125.25	6,521,326.36	3	40'	60'	186.0
D14-A	1,826,117.23	6,521,370.63	3	40'	60'	185.1
D15-A	1,826,106.54	6,521,429.68	2	40'	60'	186.1
D16-A	1,826,100.30	6,521,464.12	2	40'	60'	186.1
D17-A	1,826,087.82	6,521,533.00	3	40'	60'	187.2

TABLE 6
 DRY WELLS LINE D-1

- ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER
- NOTES:
- SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
 - SEE TABLE 9 (SH 13) FOR DIMENSIONS OF CONNECTOR PIPE DRY WELLS AND ASSOCIATED CONNECTOR PIPE INFORMATION.
 - SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
 - FOR PVC RISERS THAT INCLUDE ELBOWS FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS. REFER TO PLAN LS FOR THE DISPOSITION OF UTILITIES SHOWN ON PROFILE THAT MAY REQUIRE RELOCATION DUE TO LANDSCAPING WORK.
 - REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.
 - CONTRACTOR SHALL REMOVE INTERFERING WALL FOOTING AND JOIN RAMP TO EXISTING BRICK WALL PROPOSED PEDESTRIAN SIGNAL PER PLAN SP
 - FOR SCE ELECTRICAL CONDUIT RELOCATION, THE CONTRACTOR SHALL CONTACT THE SCE PLANNER (NOELLE PETERSON) AT (310) 608-5162 TO COORDINATE THE WORK THAT NEEDS TO BE PERFORMED.
- * CONTRACTOR SHALL REMOVE INTERFERING WALL FOOTING AND JOIN RAMP TO EXISTING BRICK WALL PROPOSED PEDESTRIAN SIGNAL PER PLAN SP
- ** FOR SCE ELECTRICAL CONDUIT RELOCATION, THE CONTRACTOR SHALL CONTACT THE SCE PLANNER (NOELLE PETERSON) AT (310) 608-5162 TO COORDINATE THE WORK THAT NEEDS TO BE PERFORMED.



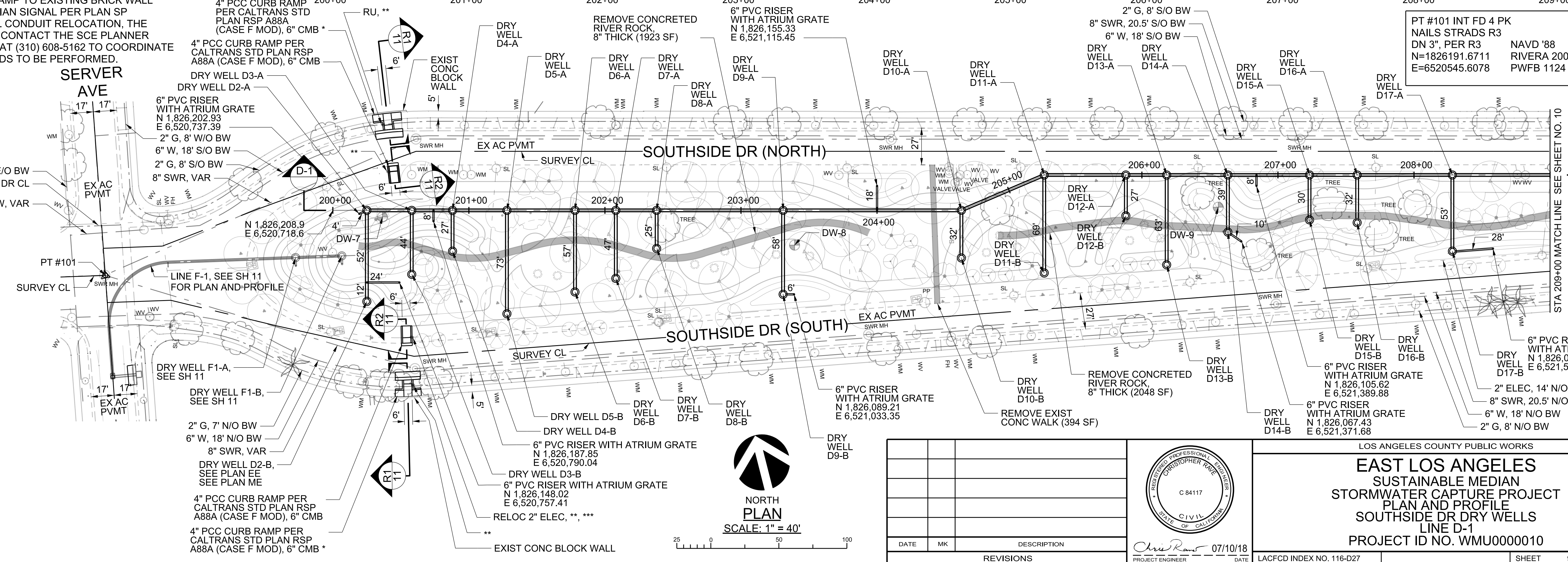
PROFILE - LINE D-1

CADD PROJECT FILE NAME
 EAST LA MEDIANS.DGN

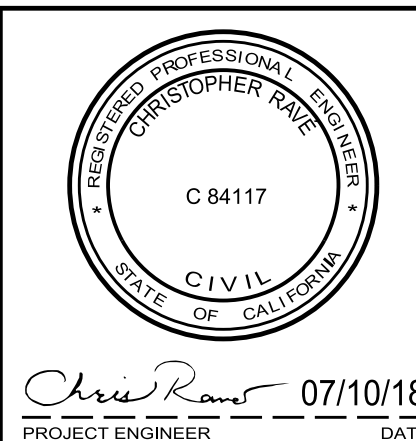
CHECKER
 D. RADLE

DESIGNER
 C. RAVE

DRAWN BY
 S. LU / L. CHAVEZ



DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS

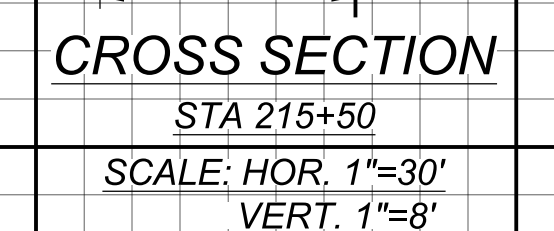
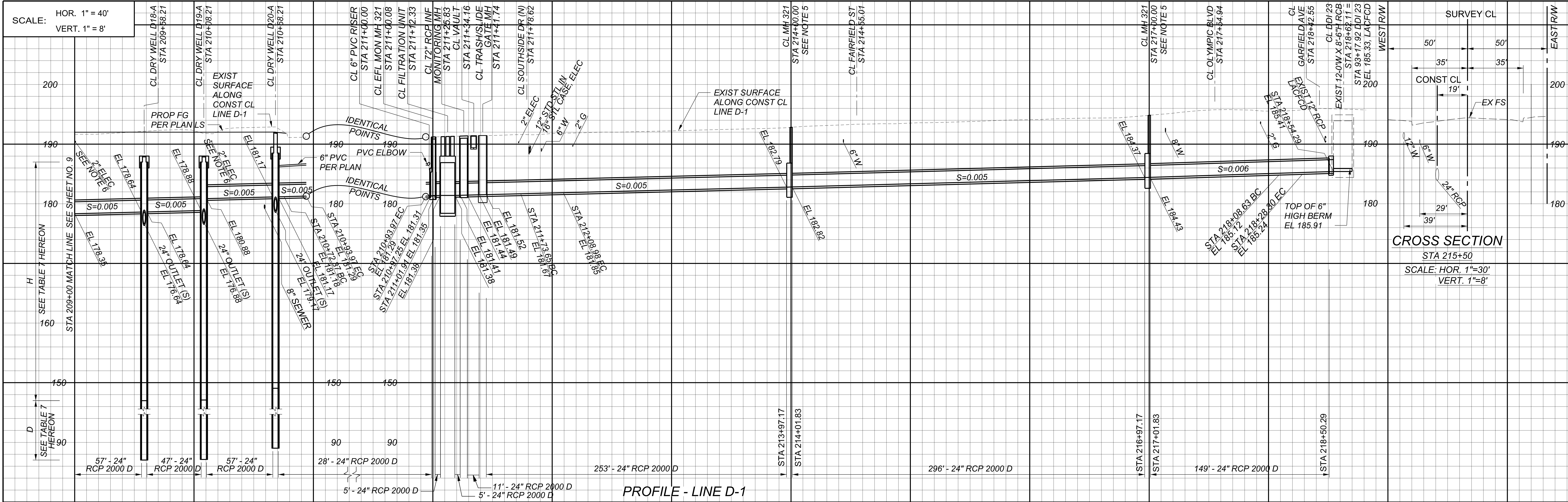
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 PLAN AND PROFILE
 SOUTHSIDE DR DRY WELLS
 LINE D-1
 PROJECT ID NO. WMU0000010

DATE: 07/10/18
 PROJECT ENGINEER: Chris Rave

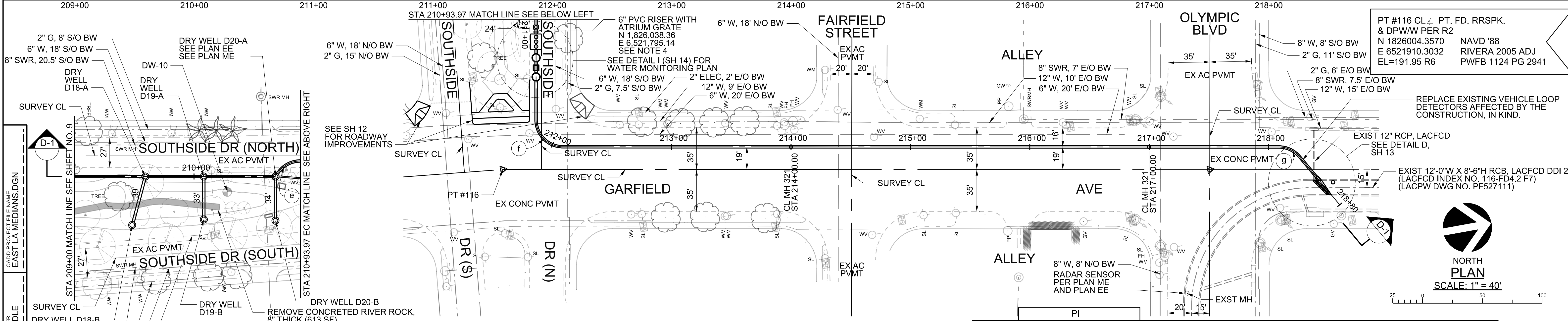
LACFC INDEX NO. 116-D27

SHEET 9 OF 26

NOT TO BE OWNED BY LACFCD
Q_{85TH} = 7.73 CFS



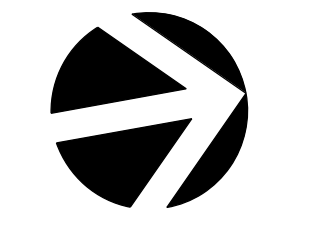
PROFILE - LINE D-1



PT #116 CL 1/4 PT. FD. RRRSPK. & DPWW PER R2
N 1826004.3570 NAVD '88
E 6521910.3032 RIVERA 2005 ADJ
EL=191.95 R6 PWF 1124 PG 2941

REPLACE EXISTING VEHICLE LOOP DETECTORS AFFECTED BY THE CONSTRUCTION, IN KIND.

EXIST 12'-0"W X 8'-6"H RCB, LACFCD DDI 23 (LACFCD INDEX NO. 116-FD4.2 F7) (LACPW DWG NO. PF527111)



NORTH PLAN
SCALE: 1" = 40'

- NOTES:
- SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
 - SEE TABLE 9 (SH 13) FOR DIMENSIONS OF CONNECTOR PIPE DRY WELLS AND ASSOCIATED CONNECTOR PIPE INFORMATION.
 - SEE TYPICAL 6" PVC RISERS WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
 - FOR PVC RISERS THAT INCLUDE ELBOWS FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
 - MANHOLES ALONG GARFIELD AVENUE SHALL HAVE A SHAFT PER STD PLAN 326.
 - REFER TO PLAN LS FOR THE DISPOSITION OF UTILITIES SHOWN ON PROFILE THAT MAY REQUIRE RELOCATION DUE TO LANDSCAPING WORK.
 - REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
D18-A	1,826,064.48	6,521,661.90	3	40'	60"	188.0
D19-A	1,826,055.74	6,521,710.12	3	40'	60"	188.0
D20-A	1,826,045.05	6,521,769.16	1	40'	60"	189.5

TABLE 7
DRY WELLS LINE D-1

ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

RESURFACING SCHEDULE		
LOCATION	EXIST PVMT	RESURF PVMT
STA 210+78 TO STA 211+44	4" AC ON 4" CMB	5" AC ON 4" CMB
STA 211+93 TO STA 218+55	8" CONC ON 5" CMB	8" PCC ON 5" CMB

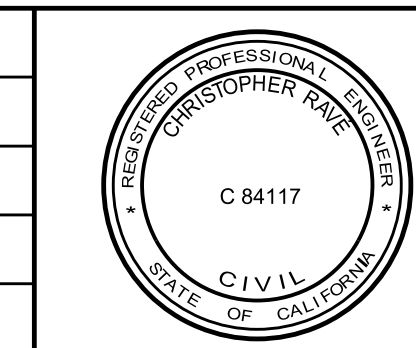
AC SHALL BE 2" OF C2-PG 64-10 ON 3" OF B-PG 64-10.

CURVE	NORTHING	EASTING	CENTRAL ANGLE	RADIUS	TANGENT	LENGTH	BC	EC
(e)	1,826,056.21	6,521,780.43	55° 00' 00"	22.50'	11.71'	21.60'	210+72.37	210+93.97
(f)	1,826,035.17	6,521,896.58	89° 59' 06"	22.50'	22.49'	35.34'	211+73.65	212+08.98
(g)	1,826,657.67	6,522,009.51	50° 05' 41"	22.50'	10.51'	19.67'	218+08.63	218+28.30

CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAFTER: S. LU / L. CHAVEZ



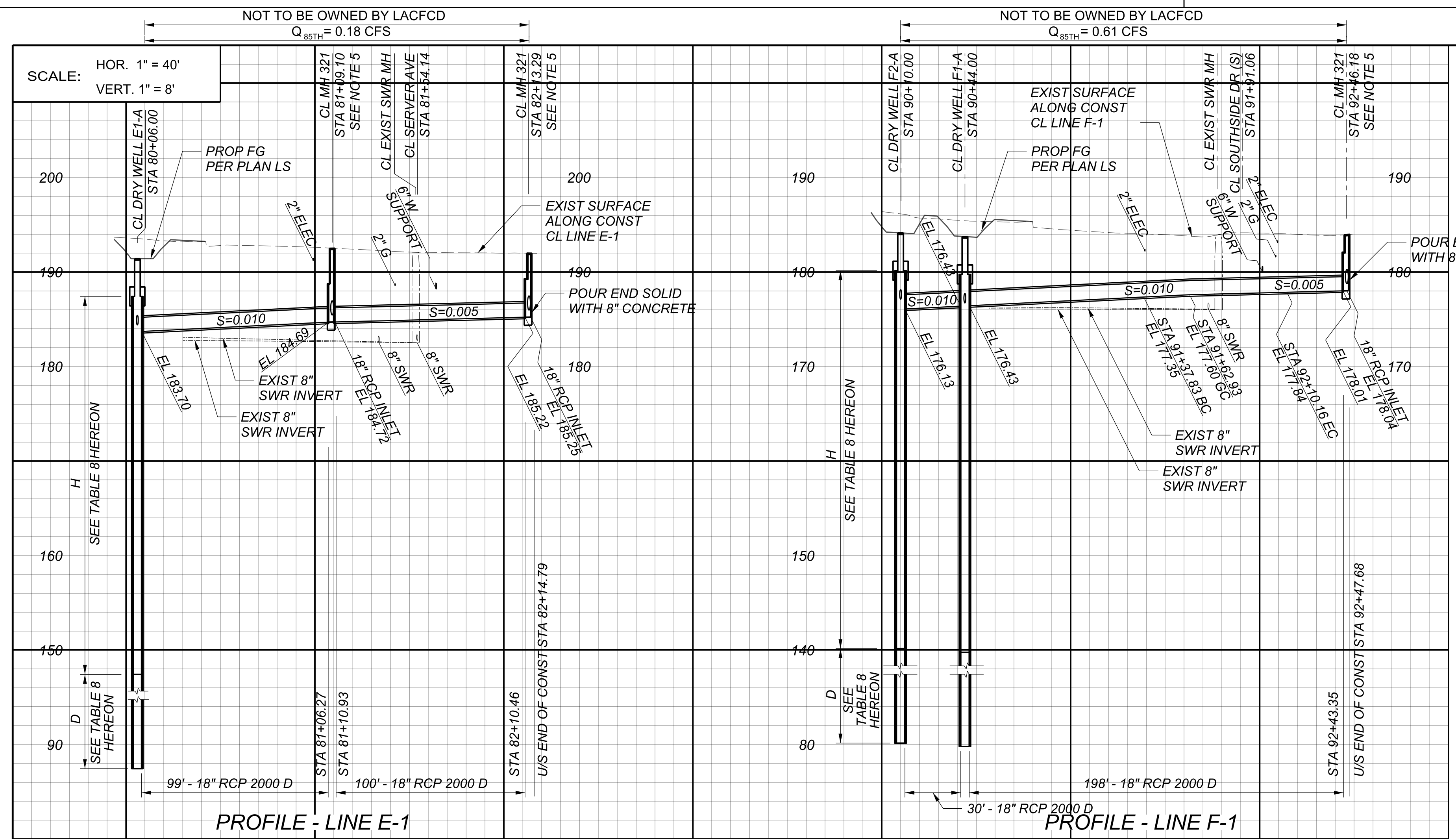
NORTH PLAN
SCALE: 1" = 40'



07/10/18
PROJECT ENGINEER

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT
PLAN AND PROFILE
SOUTHSIDE DR DRY WELLS
GARFIELD AVE DIVERSION LINE, LINE D-1
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 SHEET 10 OF 26

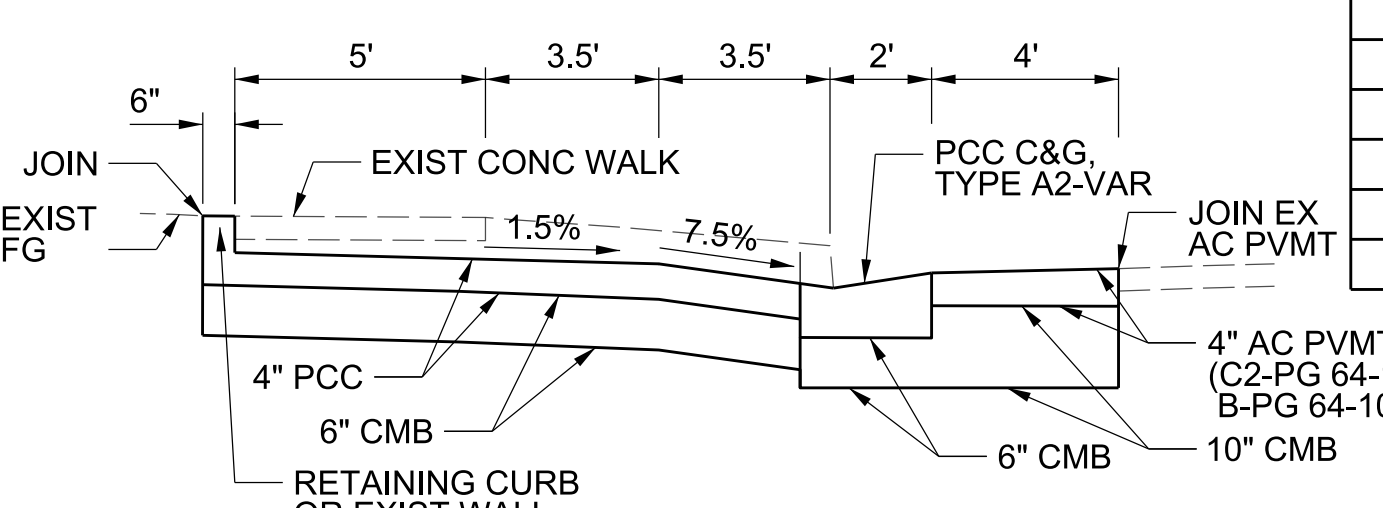


DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T
E1-A	1,827,462.05	6,520,828.65	2	40'	60'	188.4
F1-A	1,826,179.65	6,520,685.53	2	40'	60'	180.7
F2-A	1,826,174.83	6,520,719.18	2	40'	60'	181.1

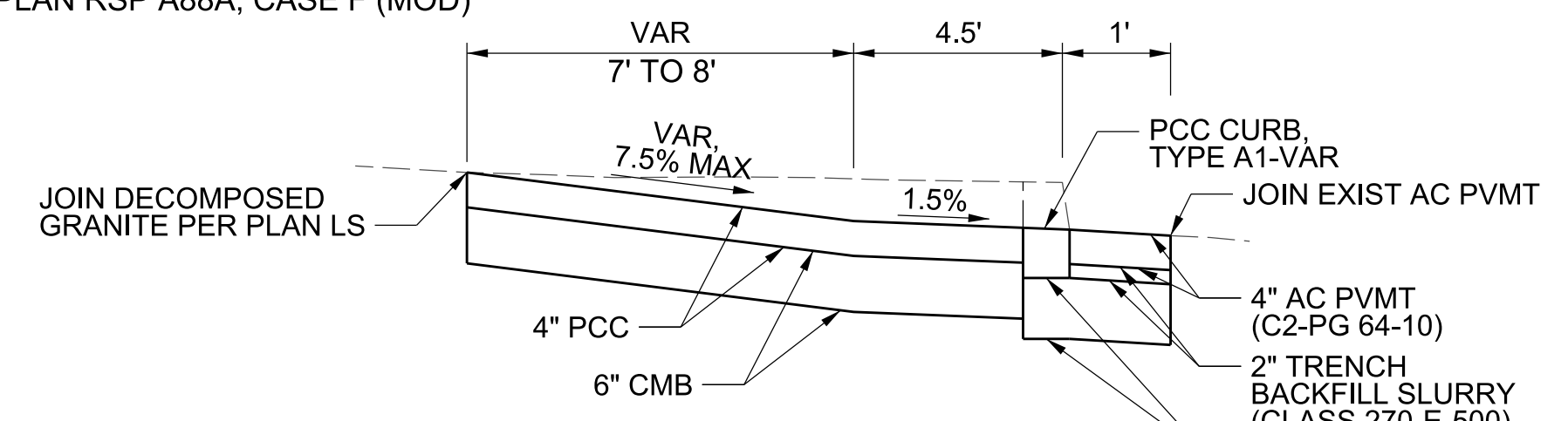
TABLE 8
DRY WELLS LINES E-1 AND F-1
 ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER

LOCATION	RESURFICING SCHEDULE	
	EXIST PVMT	RESURF PVMT
STA 80+43 TO STA 82+16	4" AC ON 4" CMB	5" AC ON 4" CMB
STA 90+80 TO STA 91+66	4" AC ON 4" CMB	5" AC ON 4" CMB
STA 91+66 TO STA 92+49	6" AC ON 5" CMB	6" AC ON 5" CMB

AC SHALL BE 2" OF C2-PG 64-10 ON VAR B-PG 64-10.



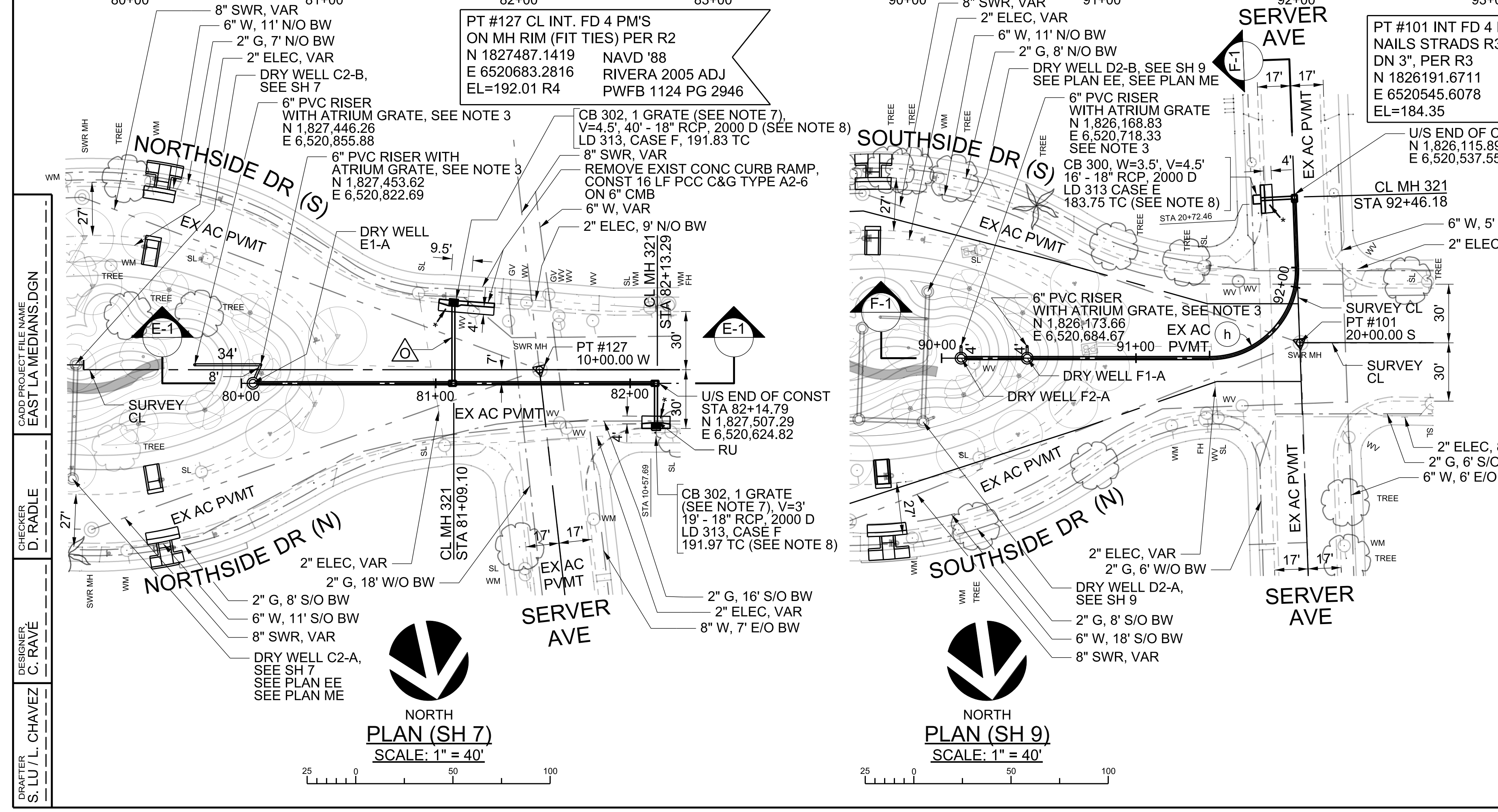
SECTION R1-R1 (SH 7, 9)
 NOT TO SCALE
 MEDIAN CURB RAMP PER CALTRANS STD PLAN RSP A88A, CASE F (MOD)



SECTION R2-R2 (SH 7, 9)
 NOT TO SCALE
 MEDIAN CURB RAMP PER CALTRANS STD PLAN RSP A88A, CASE F (MOD)

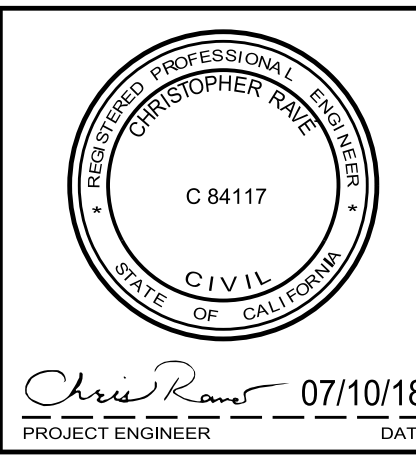
- NOTES:**
- SEE TYPICAL DRY WELL AND DRY WELL CONNECTOR PIPE ON SHEET 3 FOR DRY WELL DETAILS.
 - SEE TYPICAL 6" PVC RISER WITH ATRIUM GRATE DETAIL ON SHEET 3 FOR RISER DETAILS.
 - FOR PVC RISERS THAT INCLUDE ELBOWS FOR LATERAL OFFSETS, THE VERTICAL DEPTH OF THE ELBOW SHALL BE DETERMINED BASED UPON PROPOSED CONDITIONS.
 - REFER TO PLAN LS FOR THE DISPOSITION OF UTILITIES SHOWN ON PROFILE THAT MAY REQUIRE RELOCATION DUE TO LANDSCAPING WORK.
 - MANHOLE 321 SHALL HAVE A SHAFT PER STD PLAN 326.
 - REFER TO PLAN LS FOR LANDSCAPING IMPROVEMENTS SHOWN ON PLAN WITHIN THE MEDIAN AREA.
 - EACH GRATING CATCH BASIN SHALL INCLUDE GRATE(S) PER CITY OF LOS ANGELES BUREAU OF ENGINEERING STD PLAN S-342-4.
 - THE CATCH BASIN CONNECTOR PIPE SCREEN SHALL BE MODIFIED TO EXCLUDE THE OVERFLOW OPENING.
- * 4" AC PVMT (C2-PG 64-10, B-PG 64-10) ON 10" CMB

CURVE	PI		CENTRAL ANGLE	RADIUS	TANGENT	LENGTH	BC	EC
	NORTHING	EASTING						
(h)	1,826,199.61	6,520,546.45	92° 05' 38"	45.00'	46.68'	72.33'	91+37.83	92+10.16



CAD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU / L. CHAVEZ

DATE	MK	DESCRIPTION

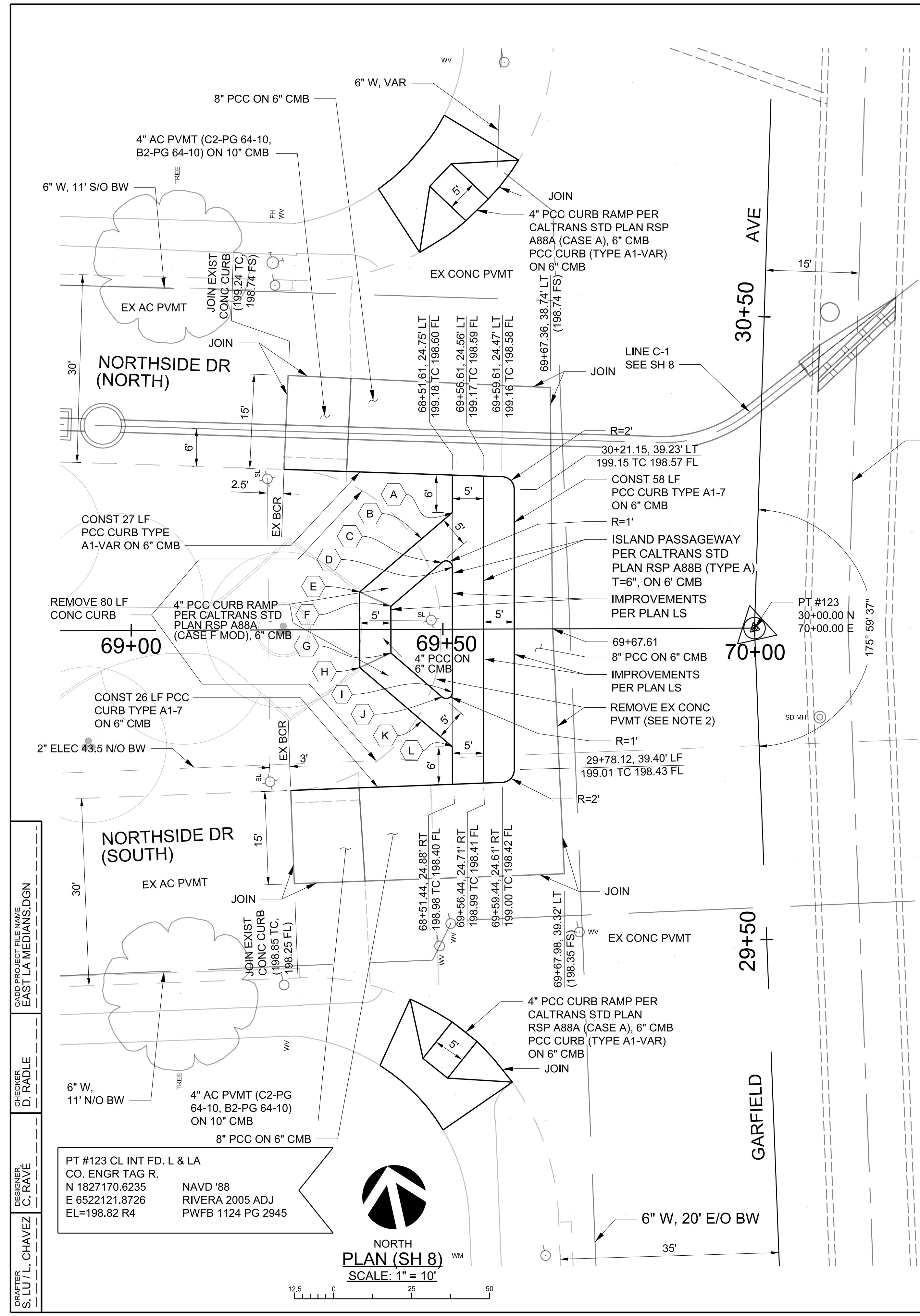


LOS ANGELES COUNTY PUBLIC WORKS

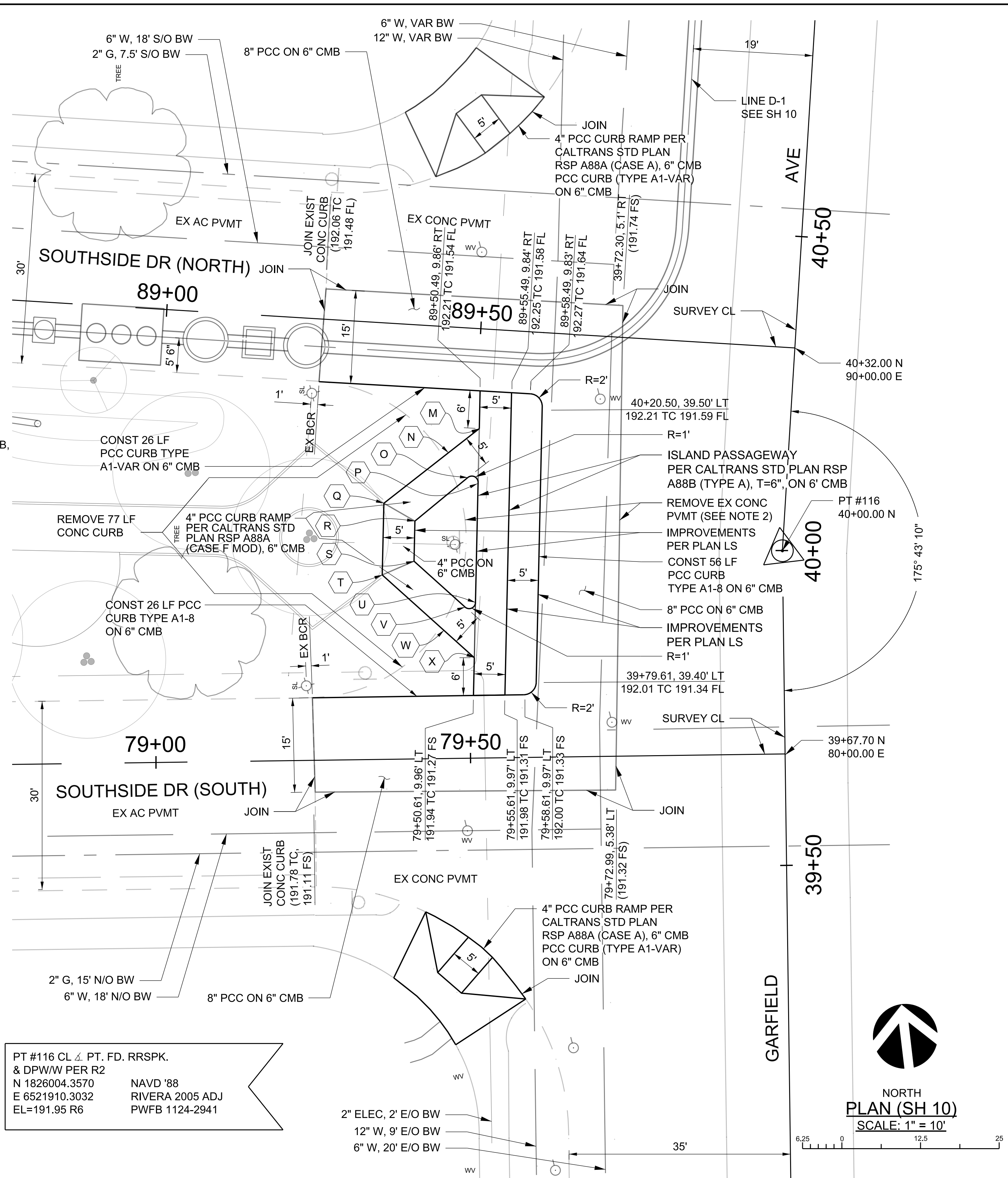
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 PLAN AND PROFILE
 LINES E-1 AND F-1
 PROJECT ID NO. WMU0000010

DATE: 07/10/18
 PROJECT ENGINEER: Chris Rave

LACFCD INDEX NO. 116-D27 SHEET 11 OF 26



EXIST 12'-0"W X 8'-6"H RCB,
LACFCD DDI 02
(LACFCD INDEX
NO. 116-FD.4.2 F7)
(LACPW DWG
NO. PF527111)



PT #116 CL Δ PT. FD. RRSK.
& DPWW PER R2
N 1826004.3570
E 6521910.3032
EL=191.95 R6

NAVD '88
RIVERA 2005 ADJ
PWFB 1124-2941

- NOTES:
- SEE TABLE 8.1 ON SHEET 11 FOR ISLAND PASSAGEWAY DESIGN DATA.
 - REMOVE EXISTING CONCRETE PAVEMENT AND SUBGRADE MATERIAL TO A DEPTH OF 20" FROM FINISHED SURFACE WHERE LANDSCAPING IMPROVEMENTS ARE TO BE CONSTRUCTED.

DATE	MK	DESCRIPTION

PROFESSIONAL SEAL
CHRISTOPHER RIVERA
CIVIL ENGINEER
STATE OF CALIFORNIA
C 84117

Chris Rivera 07/10/18
PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS

**EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT**

PLAN - MEDIAN EXTENSION DETAILS

PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 SHEET 12 OF 26

DRAWER S. LU / L. CHAVEZ
DESIGNER C. RAVE
CHECKER D. RADLE
CADD PROJECT FILE NAME EAST LA MEDIANS.DGN

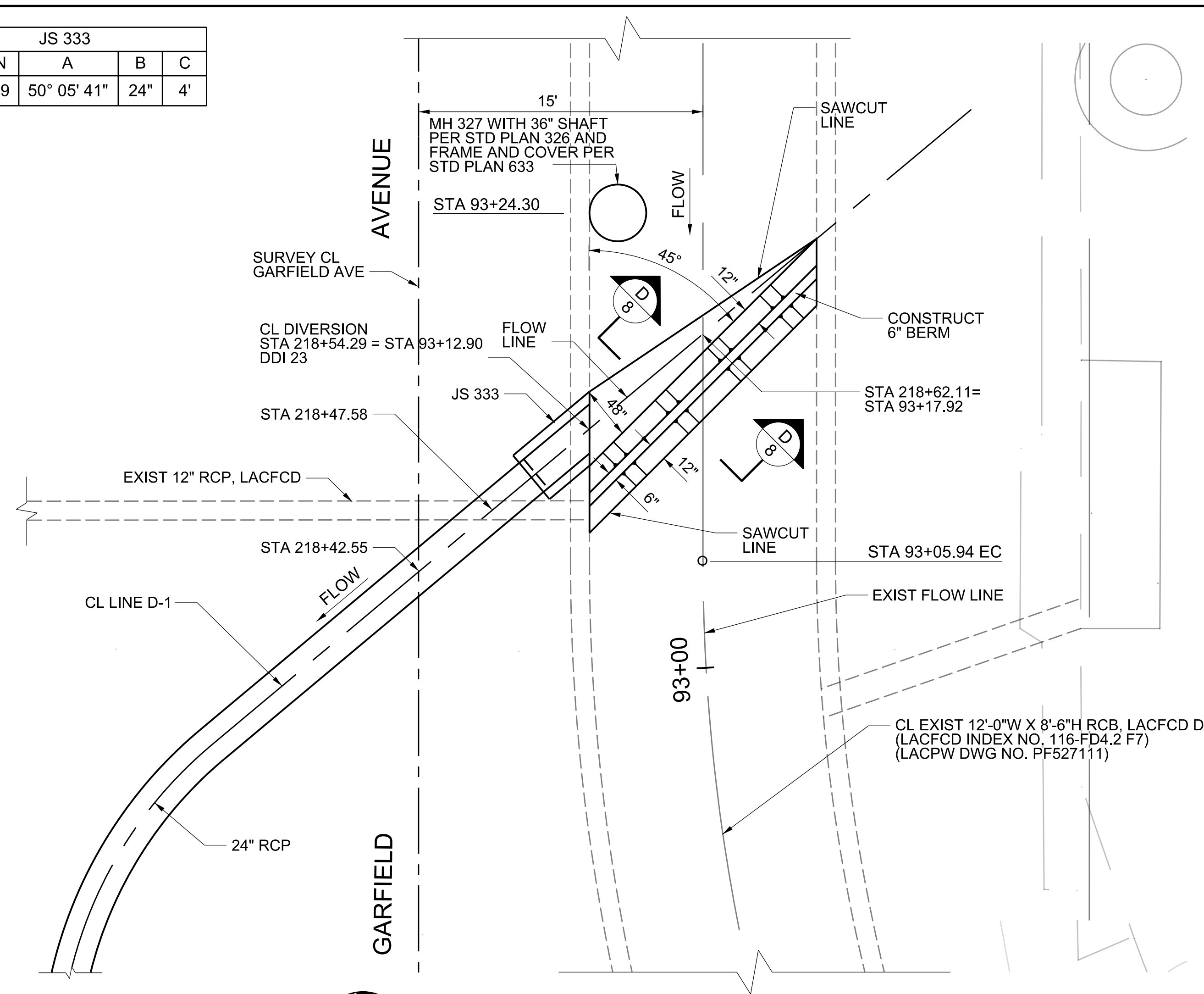
PT #123 CL INT FD. L & LA
CO. ENGR TAG R.
N 1827170.6235
E 6522121.8726
EL=198.82 R4

NAVD '88
RIVERA 2005 ADJ
PWFB 1124 PG 2945

NORTH
PLAN (SH 8)
SCALE: 1" = 10'

NORTH
PLAN (SH 10)
SCALE: 1" = 10'

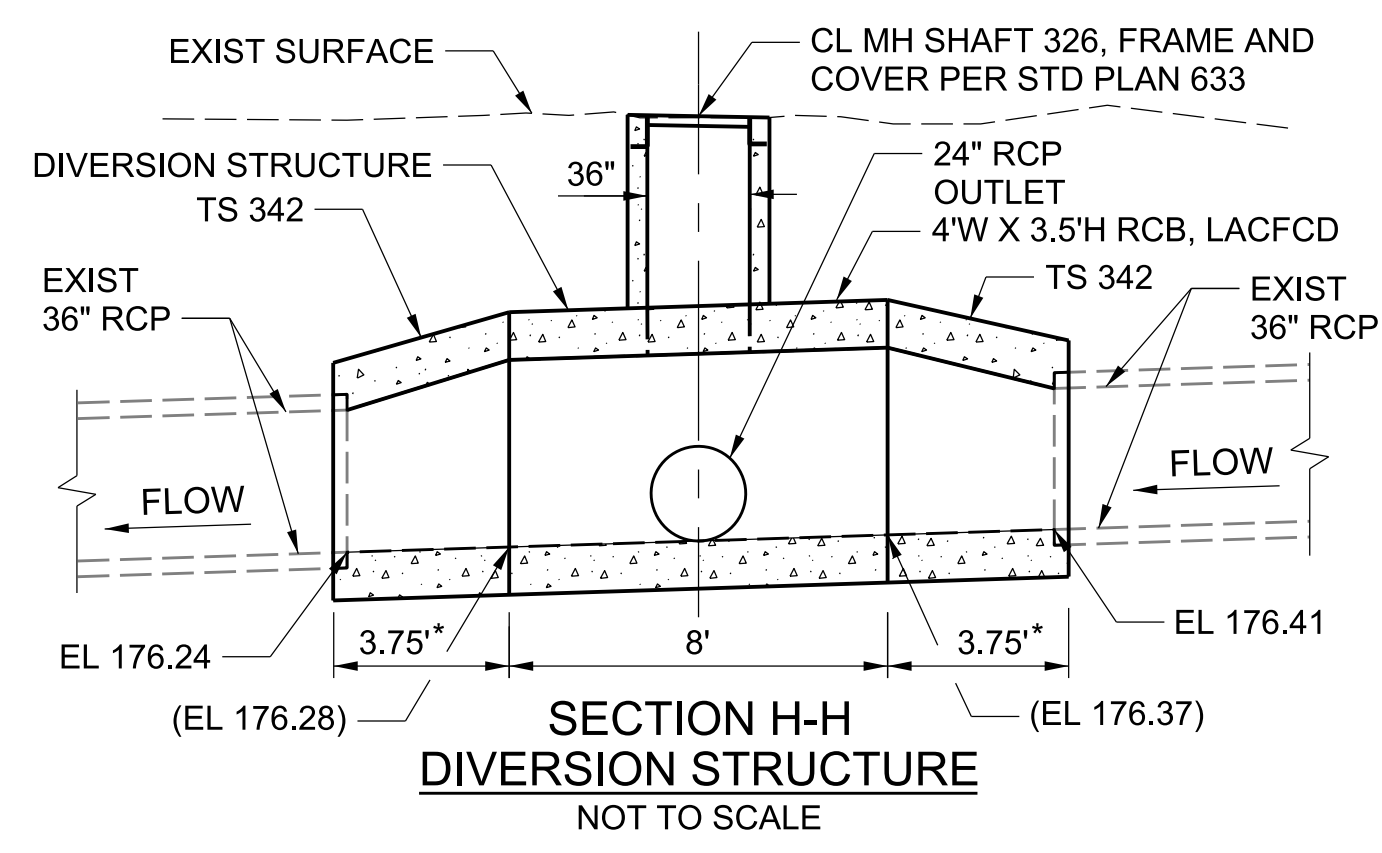
JS 333			
STATION	A	B	C
218+54.29	50° 05' 41"	24"	4'



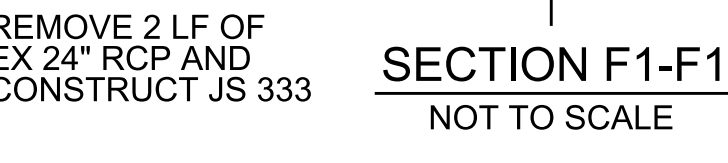
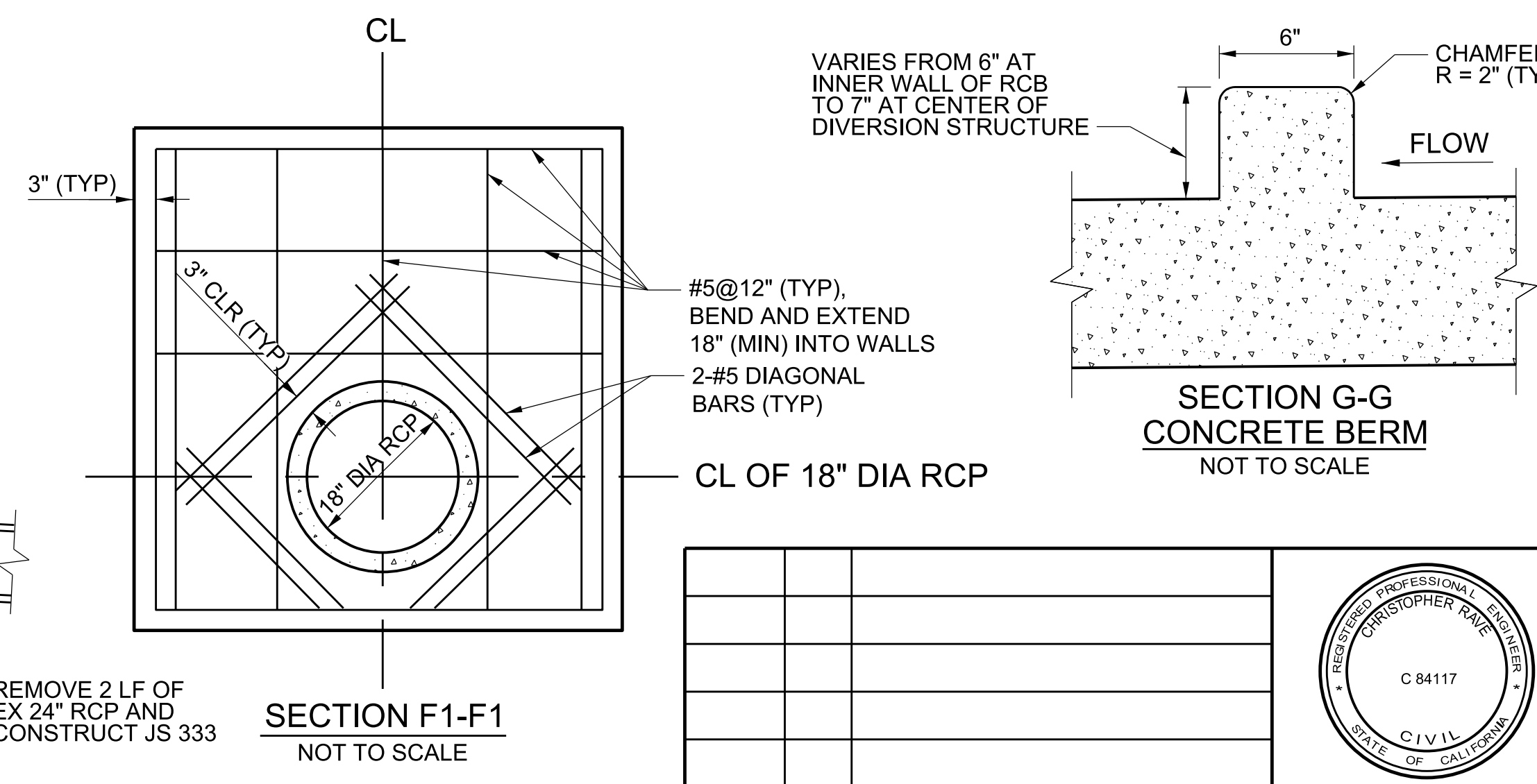
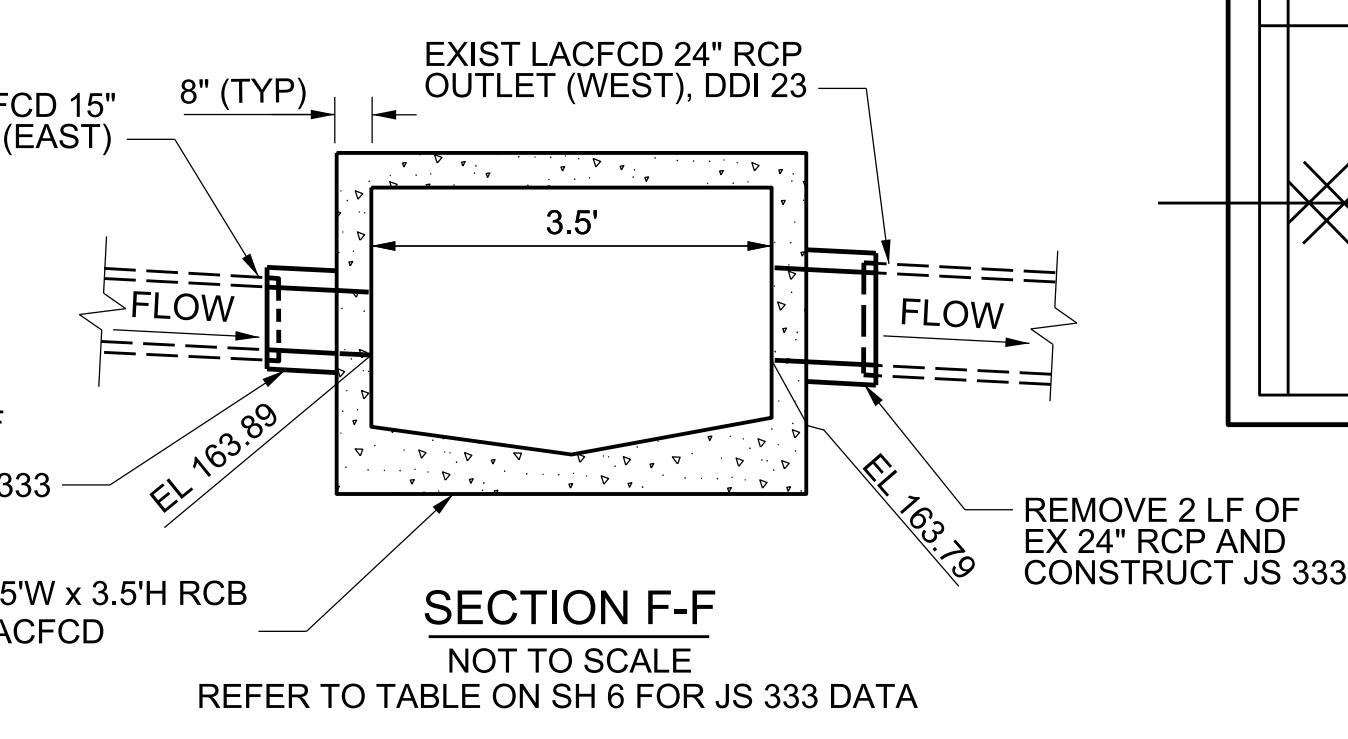
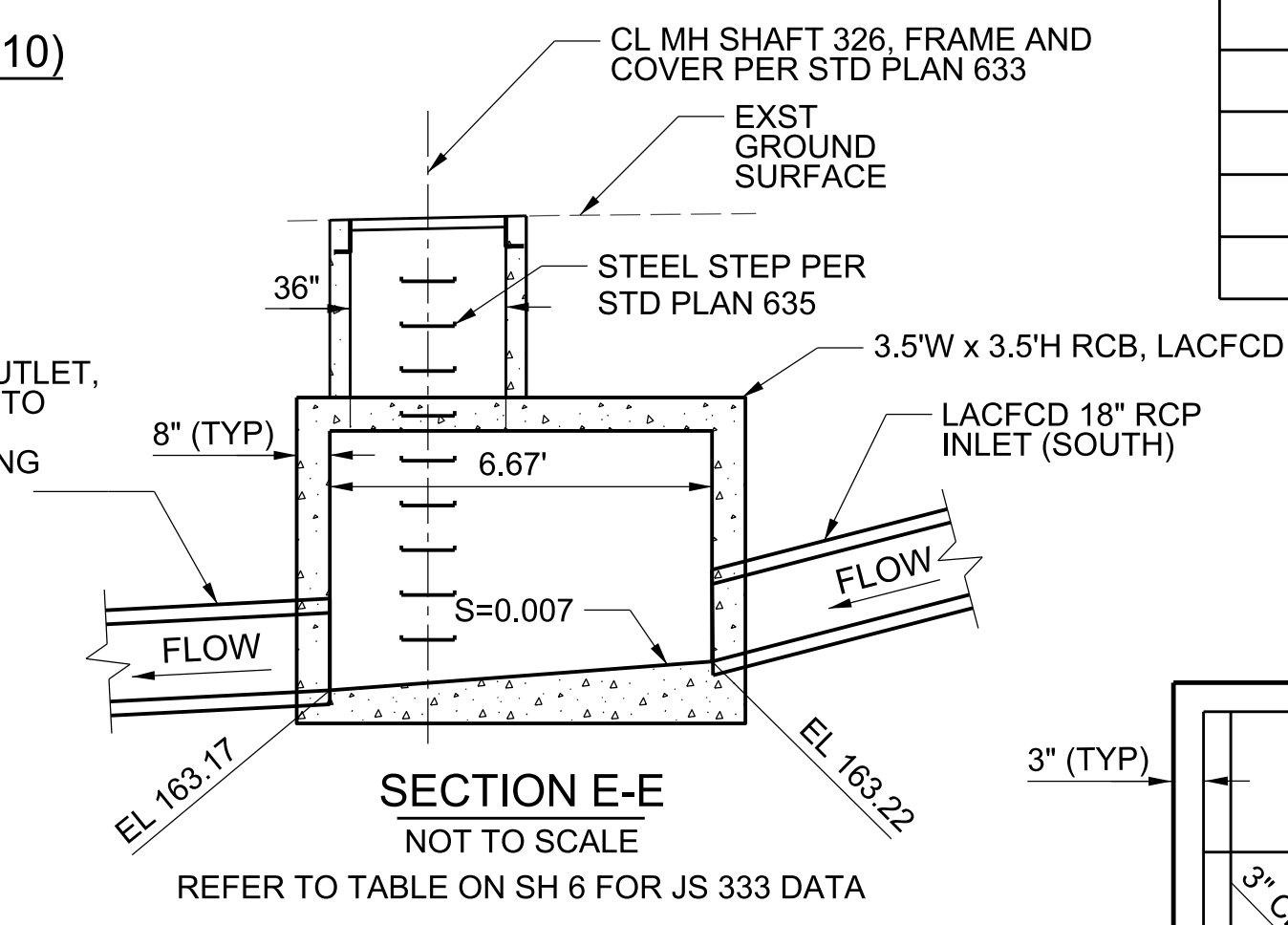
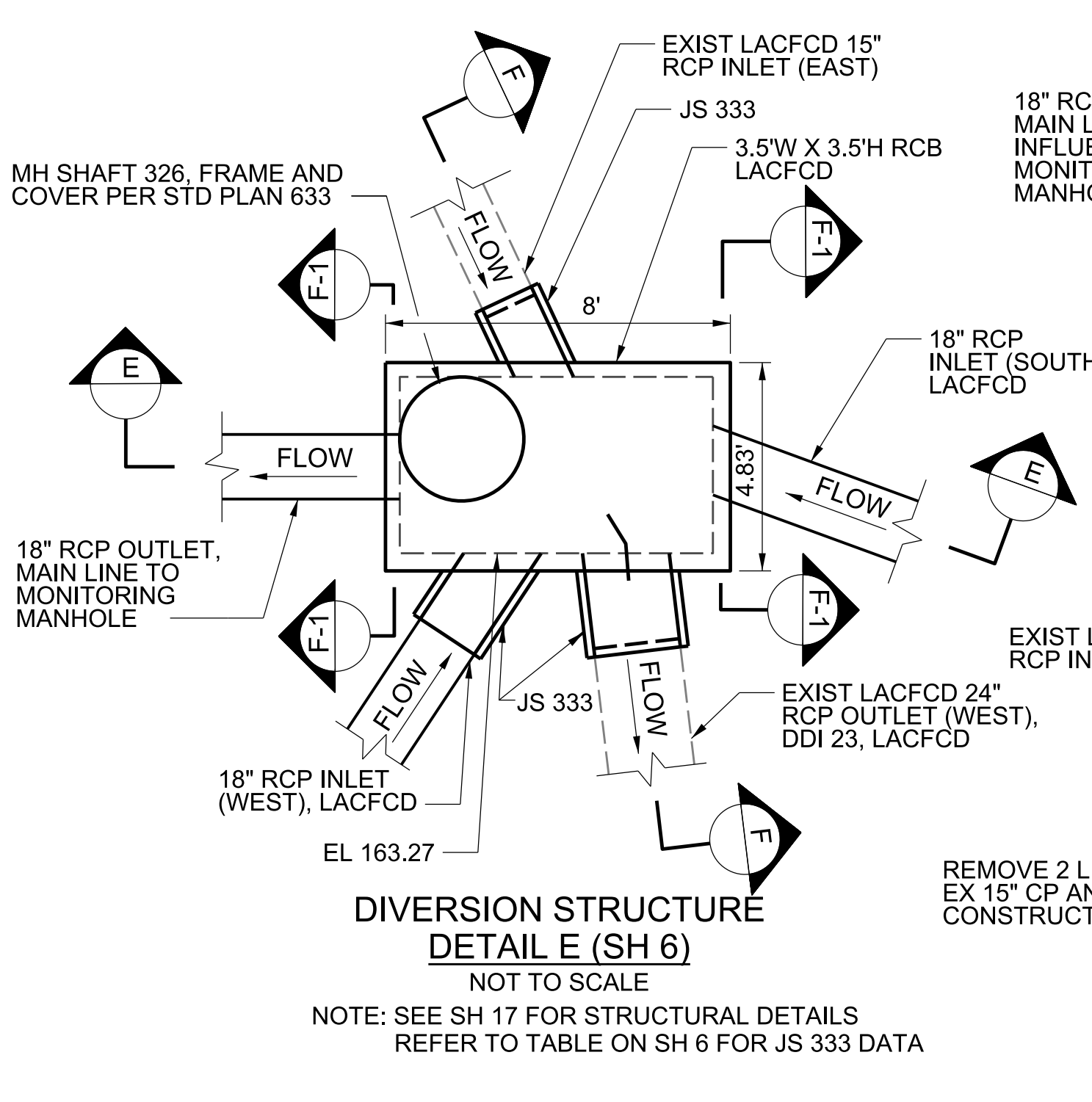
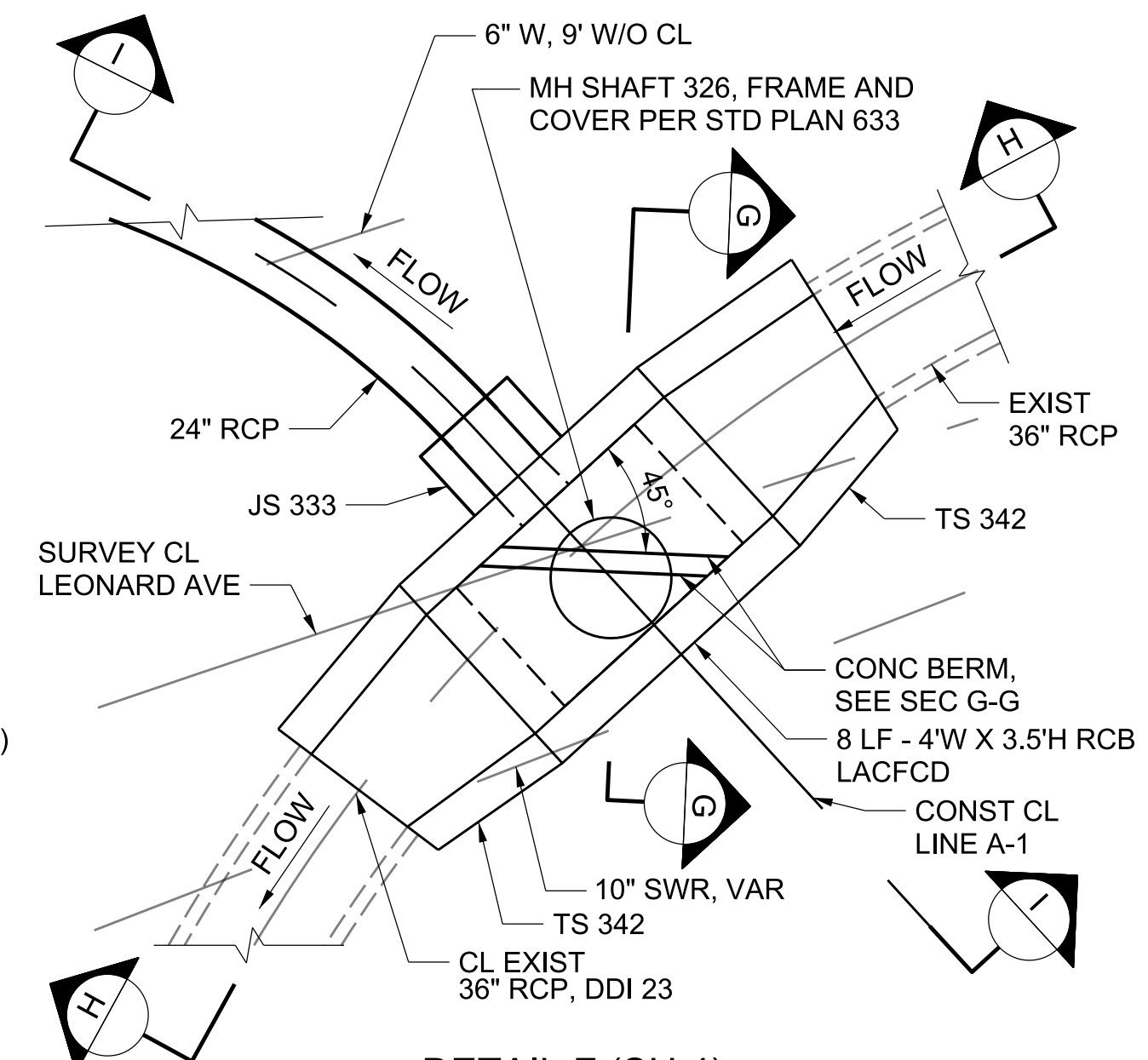
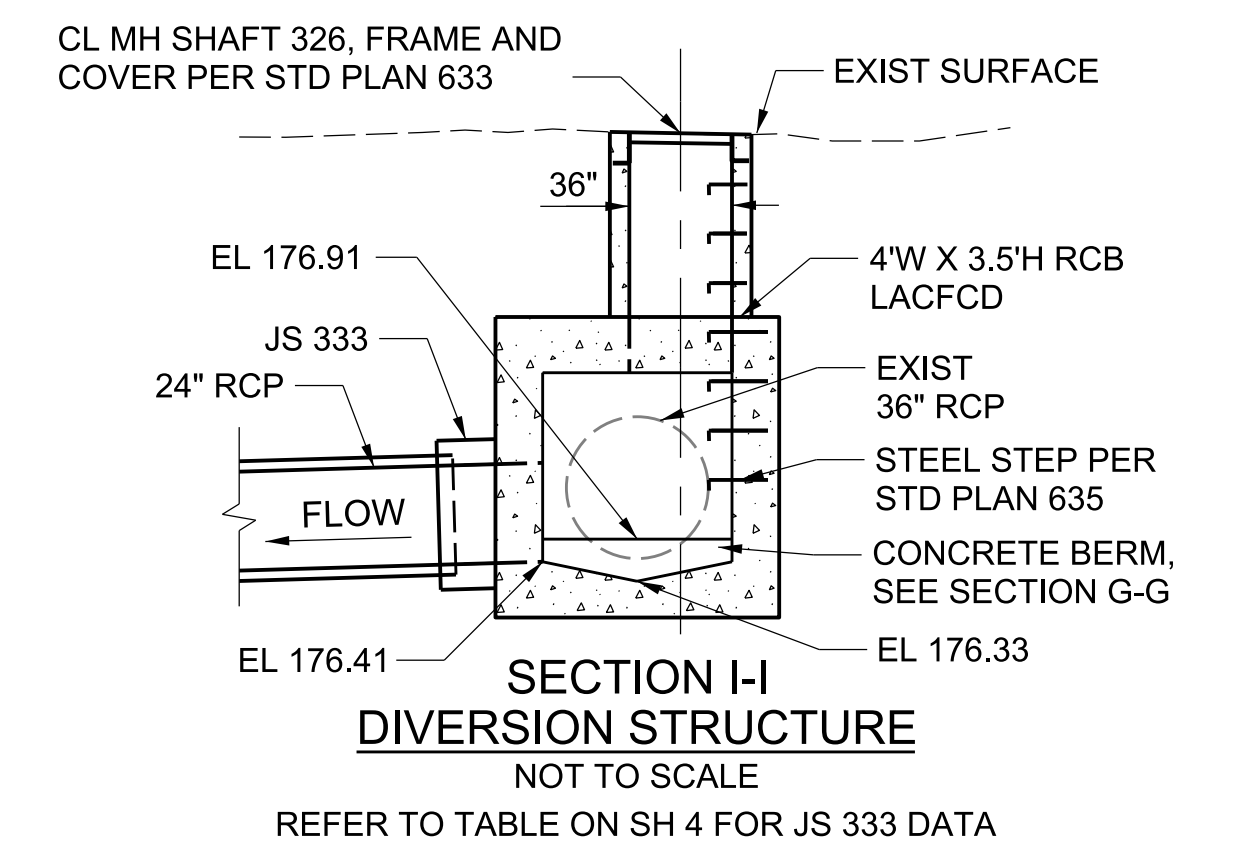
DETAIL D
DIVERSION BERM (SH 10)
NOT TO SCALE

DRY WELL	NORTHING	EASTING	CASE	H	D	ELEV T	CONNECTOR PIPE		
							EL A	S	L
C2-B	1,827,432.66	6,520,915.42	3	40'	60'	188.7	176.11	0.01	56'
C3-B	1,827,445.61	6,520,949.67	2	40'	60'	188.8	176.46	0.01	35'
C4-B	1,827,372.75	6,520,972.40	2	40'	60'	190.2	176.00	0.01	100'
C5-B	1,827,403.62	6,521,011.21	2	40'	60'	190.5	176.54	0.01	60'
C6-B	1,827,357.33	6,521,061.34	2	40'	60'	190.7	176.50	0.01	93'
C7-B	1,827,383.58	6,521,104.14	3	40'	60'	190.7	177.02	0.01	57'
C8-B	1,827,402.78	6,521,150.31	3	40'	60'	190.8	177.51	0.01	27'
C9-B	1,827,333.05	6,521,178.99	2	40'	60'	190.0	177.12	0.01	87'
C10-B	1,827,351.33	6,521,214.60	1	40'	60'	192.5	177.52	0.01	61'
C11-B	1,827,319.26	6,521,340.58	3	40'	60'	191.2	178.16	0.01	61'
C12-B	1,827,286.57	6,521,440.61	2	40'	60'	192.4	178.60	0.01	68'
C13-B	1,827,295.37	6,521,535.72	2	40'	60'	192.2	179.36	0.01	36'
C14-B	1,827,284.44	6,521,594.85	2	40'	60'	191.8	179.69	0.01	32'
C15-B	1,827,239.46	6,521,676.27	2	40'	60'	192.1	179.90	0.01	55'
C16-B	1,827,229.55	6,521,725.34	2	40'	60'	192.4	180.16	0.01	53'
C18-B	1,827,220.38	6,521,826.20	2	40'	60'	194.4	180.80	0.01	37'
C19-B	1,827,203.20	6,521,873.41	3	40'	60'	194.0	180.99	0.01	42'
C20-B	1,827,198.31	6,521,939.25	2	40'	60'	194.7	181.42	0.01	30'
D2-B	1,826,138.53	6,520,731.31	1	40'	60'	181.8	171.52	0.01	64'
D3-B	1,826,152.32	6,520,767.34	2	40'	60'	181.3	171.87	0.01	44'
D4-B	1,826,163.70	6,520,799.89	3	40'	60'	182.7	172.18	0.01	27'
D5-B	1,826,111.31	6,520,831.05	2	40'	60'	182.2	171.91	0.01	73'
D6-B	1,826,118.14	6,520,883.11	3	40'	60'	183.1	172.31	0.01	57'
D7-B	1,826,122.64	6,520,914.41	1	40'	60'	185.2	172.55	0.01	47'
D8-B	1,826,138.93	6,520,947.85	3	40'	60'	184.0	172.91	0.01	25'
D9-B	1,826,089.22	6,521,033.35	2	40'	60'	183.4	173.03	0.01	58'
D10-B	1,826,092.12	6,521,167.01	3	40'	60'	185.5	173.93	0.01	32'
D11-B	1,826,070.45	6,521,224.97	2	40'	60'	186.0	173.88	0.01	69'
D12-B	1,826,101.08	6,521,291.50	3	40'	60'	186.4	174.59	0.01	27'
D13-B	1,826,060.33	6,521,314.60	2	40'	60'	186.4	174.37	0.01	63'
D14-B	1,826,075.89	6,521,363.20	2	40'	60'	185.7	174.82	0.01	39'
D15-B	1,826,074.07	6,521,423.80	2	40'	60'	186.1	175.20	0.01	30'
D16-B	1,826,065.86	6,521,457.88	2	40'	60'	186.2	175.34	0.01	32'
D17-B	1,826,032.72	6,521,523.02	2	40'	60'	186.2	175.47	0.01	53'
D18-B	1,826,026.47	6,521,643.84	2	40'	60'	188.4	176.25	0.01	39'
D19-B	1,826,020.32	6,521,703.70	2	40'	60'	188.7	176.55	0.01	33'
D20-B	1,826,008.64	6,521,762.56	3	40'	60'	188.5	178.83	0.01	34'

TABLE 9 (SH 7 - 10)
DRY WELLS AND LATERAL
CONNECTOR PIPES, LINES C-1 AND D-1
ELEV "T" = FS FOR THE TOP OF THE DRY WELL COVER



* DIMENSION TO BE VERIFIED AND/OR ADJUSTED
BASED UPON PROXIMITY OF EXISTING PIPE JOINTS.



DATE	MK	DESCRIPTION

Professional Engineer Seal for Christopher R. Chavez, State of California, License No. C 84117. Date: 07/10/18.

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
CONSTRUCTION DETAILS AND DRY WELL TABLE
PROJECT ID NO. WMU0000010
LACFCD INDEX NO. 116-D27 SHEET 13 OF 26

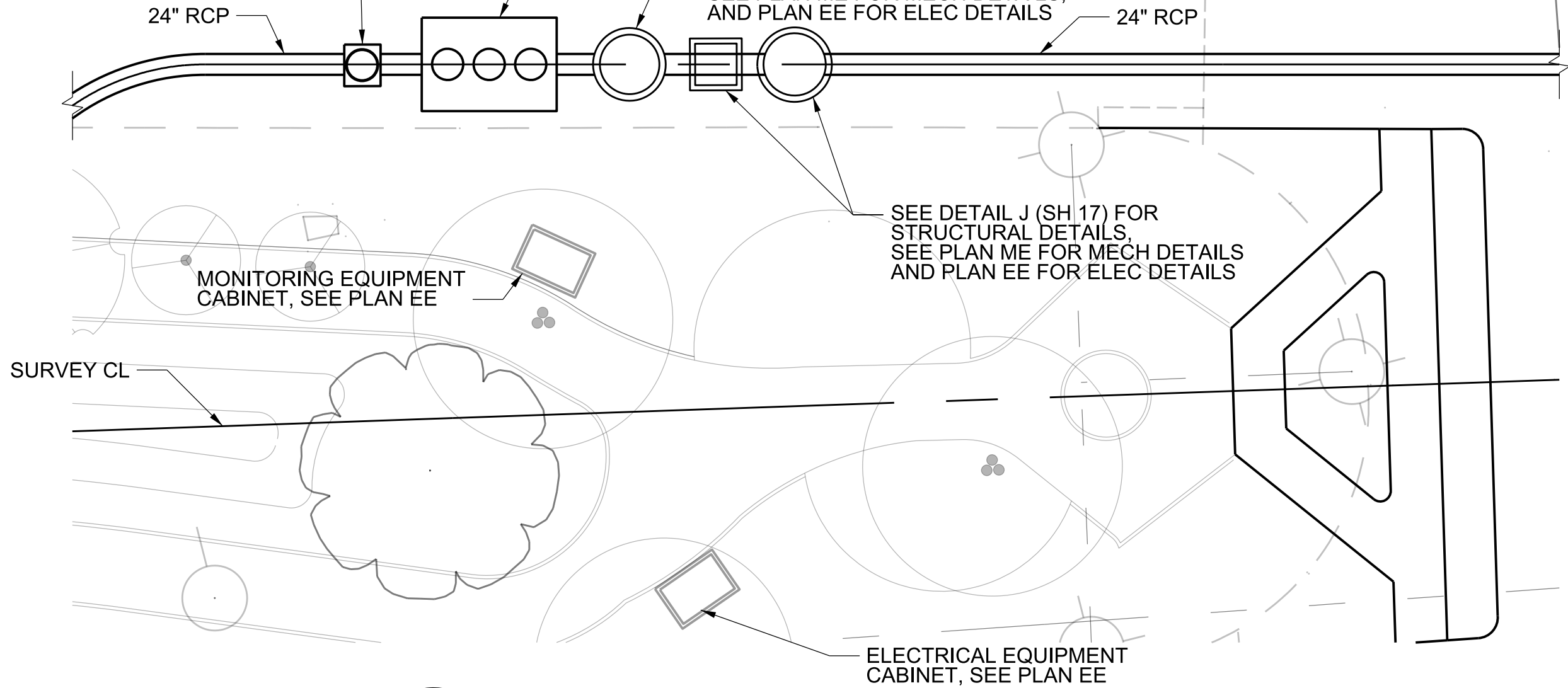
CAD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU / L. CHAVEZ

NORTHSIDE DR (NORTH)

EFFLUENT MONITORING MH 321, SEE SH 18 FOR DETAILS, SEE PLAN ME FOR MECH DETAILS, AND PLAN EE FOR ELEC DETAILS

SEE NORTHSIDE DR FILTRATION UNIT DETAILS (SH 16)

72" RCP INFLUENT MONITORING MH, SEE SH 18 FOR STRUCTURAL DETAILS, SEE PLAN ME FOR MECH DETAILS, AND PLAN EE FOR ELEC DETAILS



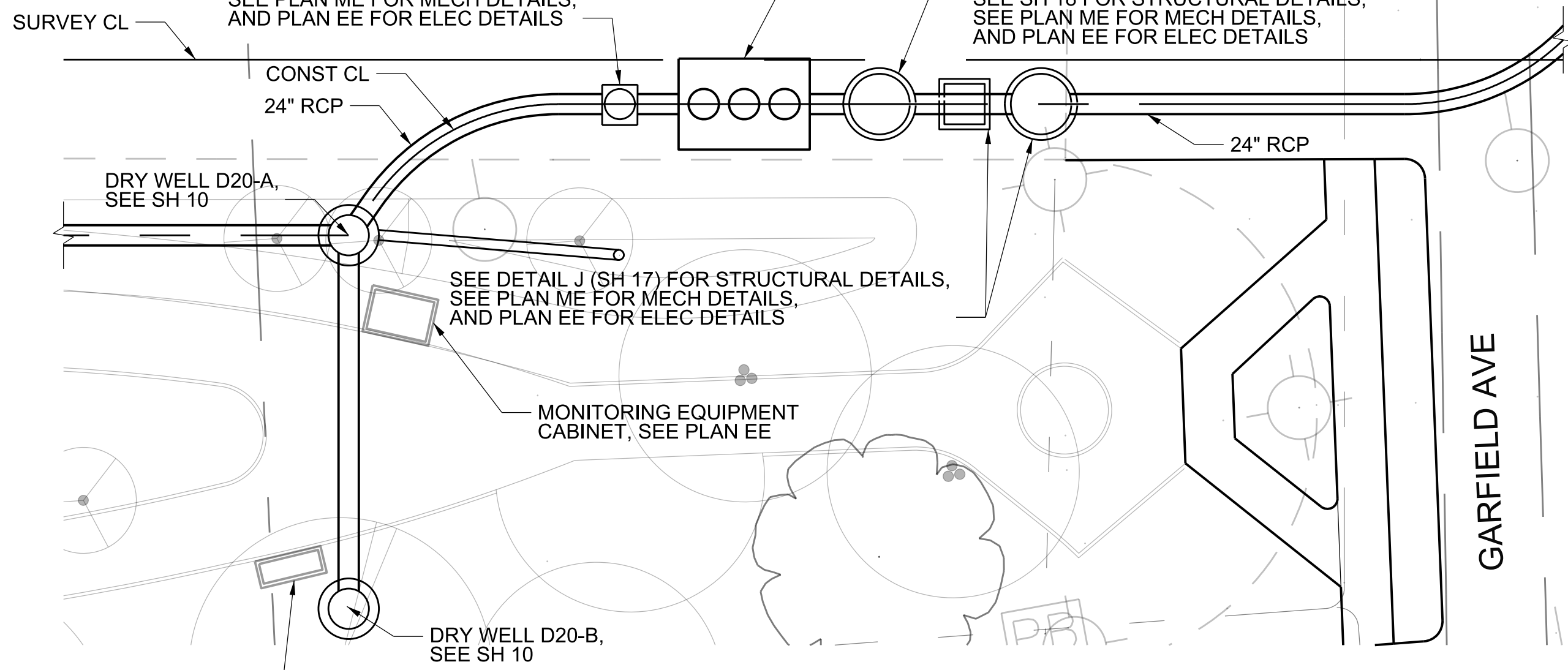
DETAIL G
WATER MONITORING PLAN (SH 8)
NO SCALE

SOUTHSIDE DR (NORTH)

EFFLUENT MONITORING MH 321, SEE SH 18 FOR DETAILS, SEE PLAN ME FOR MECH DETAILS, AND PLAN EE FOR ELEC DETAILS

SEE SOUTHSIDE DR FILTRATION UNIT DETAILS (SH 16)

72" RCP INFLUENT MONITORING MH, SEE SH 18 FOR STRUCTURAL DETAILS, SEE PLAN ME FOR MECH DETAILS, AND PLAN EE FOR ELEC DETAILS



DETAIL I
WATER MONITORING PLAN (SH 10)
NO SCALE

MONTEBELLO PKWY (WEST)

MONITORING EQUIPMENT CHEST, SEE PLAN EE

SURVEY CL

EFFLUENT MONITORING MH 321, SEE SH 18 FOR DETAILS, SEE PLAN ME FOR MECH DETAILS, AND PLAN EE FOR ELEC DETAILS

SEE MONTEBELLO PARKWAY FILTRATION UNIT DETAILS (SH 15)

72" RCP INFLUENT MONITORING MH, SEE SH 18 FOR STRUCTURAL DETAILS, SEE PLAN ME FOR MECH DETAILS, AND PLAN EE FOR ELEC DETAILS

EXIST 12" CP

SEE DETAIL J (SH 17) FOR STRUCTURAL DETAILS, SEE PLAN ME FOR MECH DETAILS, AND PLAN EE FOR ELEC DETAILS

SURVEY CL

LEONARD AVE



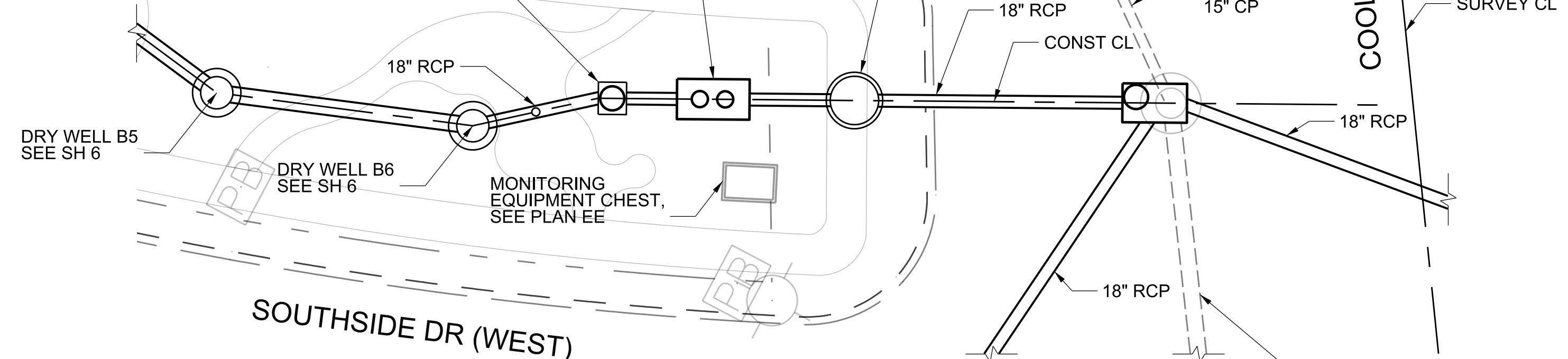
DETAIL H
WATER MONITORING PLAN (SH 4)
NO SCALE

SOUTHSIDE DR (EAST)

EFFLUENT MONITORING MH 321, SEE SH 18 FOR DETAILS, SEE PLAN ME FOR MECH DETAILS, AND PLAN EE FOR ELEC DETAILS

SEE SOUTHSIDE DR FILTRATION UNIT DETAILS (SH 15)

72" RCP INFLUENT MONITORING MH, SEE SH 18 FOR STRUCTURAL DETAILS, SEE PLAN ME FOR MECH DETAILS, AND PLAN EE FOR ELEC DETAILS



DETAIL IA
WATER MONITORING PLAN (SH 6)
NO SCALE

COOLIDGE WAY

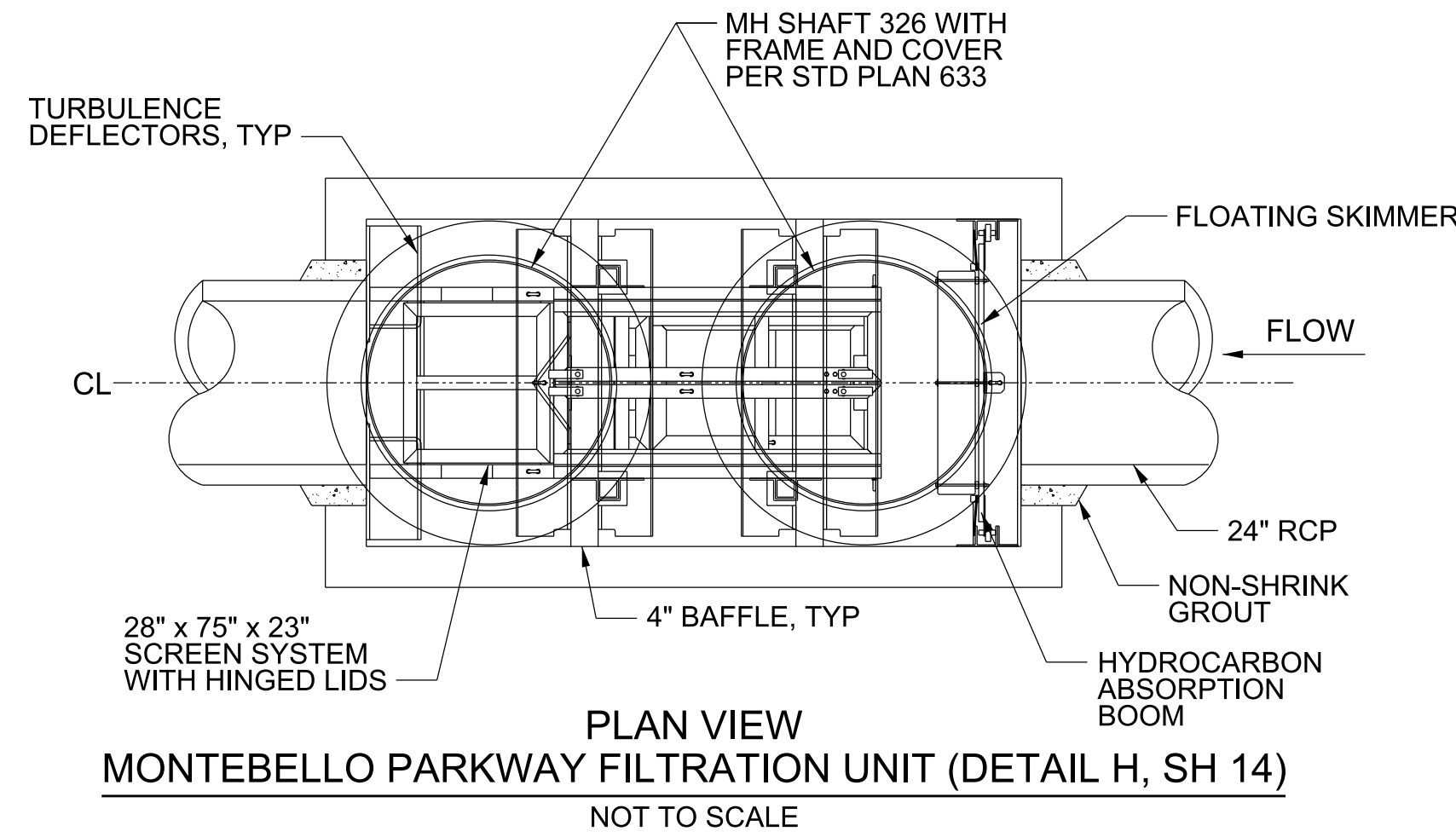
EXIST 24" RCP, LACFCD DDI 23 (LACFCD INDEX NO. 116-FD.4.4 F1) (LACPW DWG NO. PF527126)

CADD PROJECT FILE NAME: EAST LA MEDIANS.DGN
CHECKER: D. RADLE
DESIGNER: C. RAVE
DRAFTER: S. LU / L. CHAVEZ

DATE	MK	DESCRIPTION

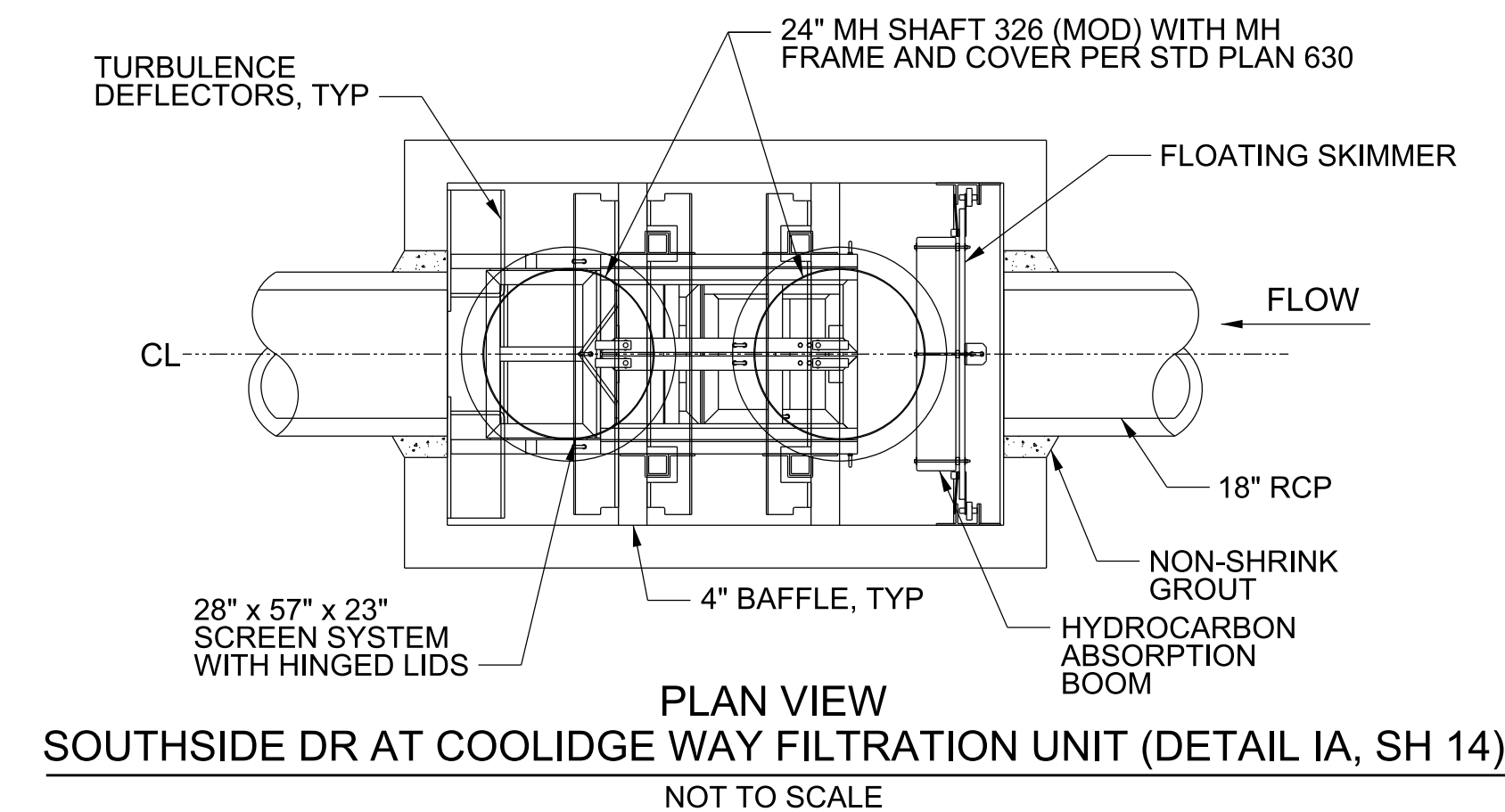
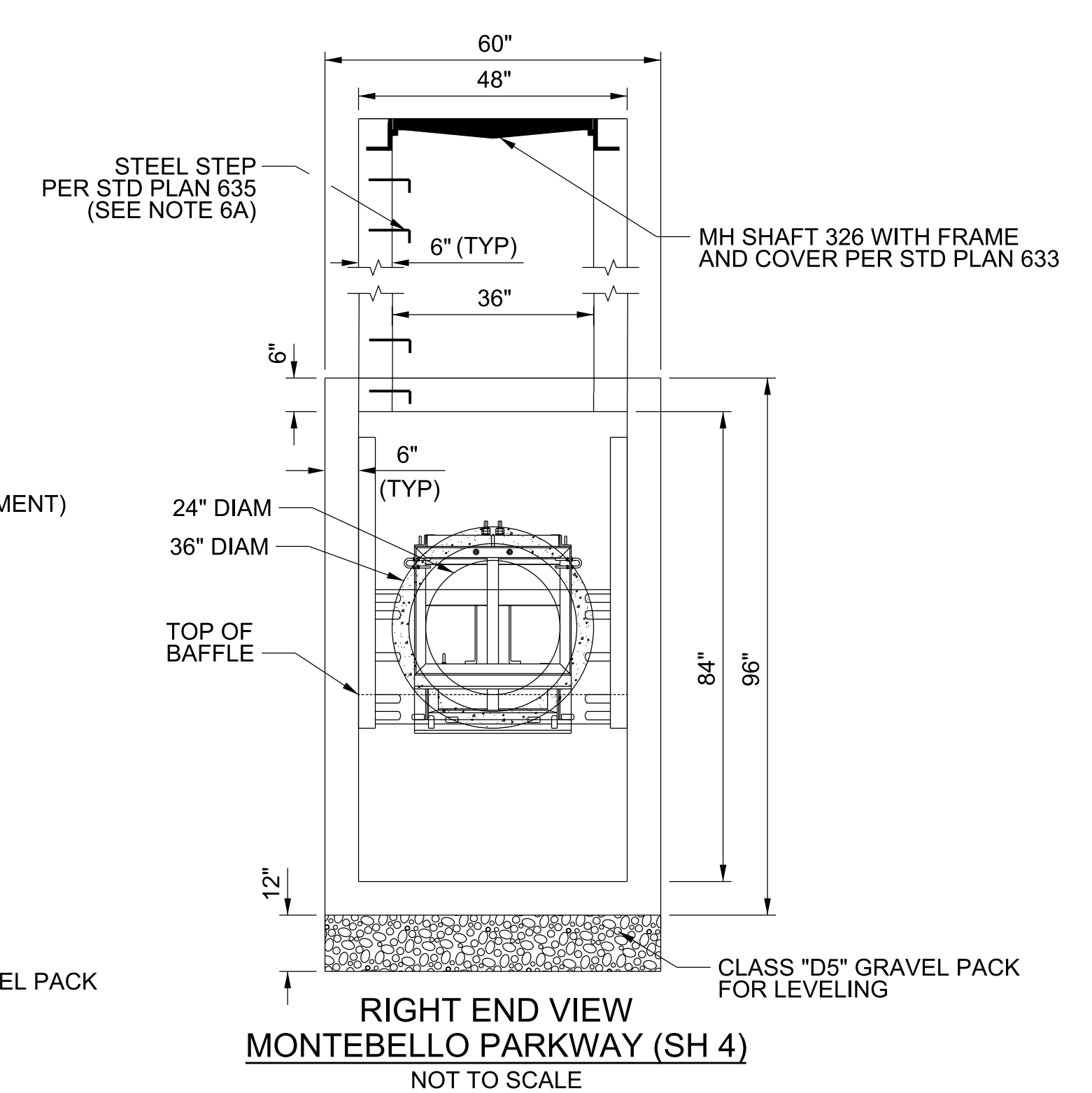
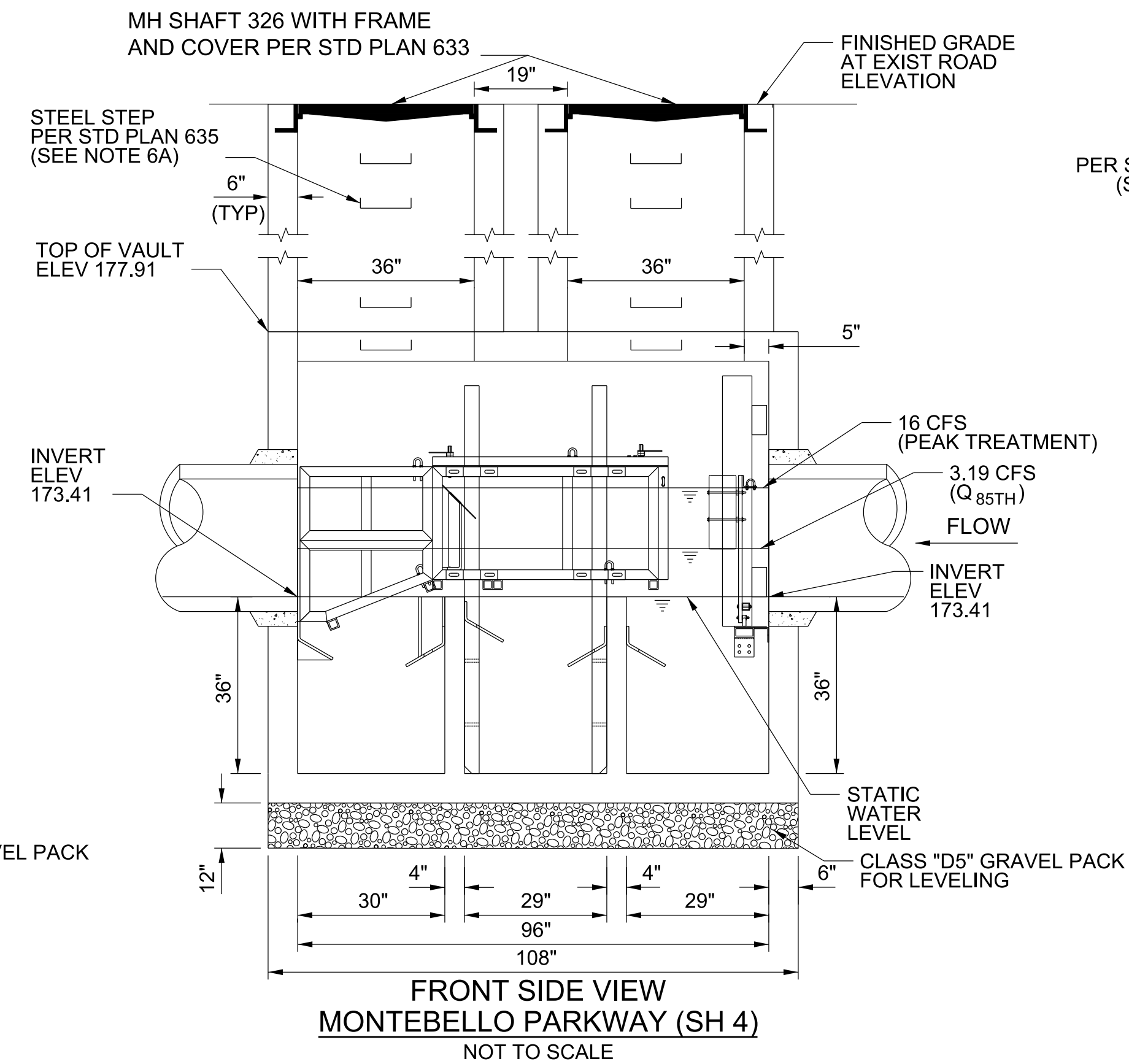
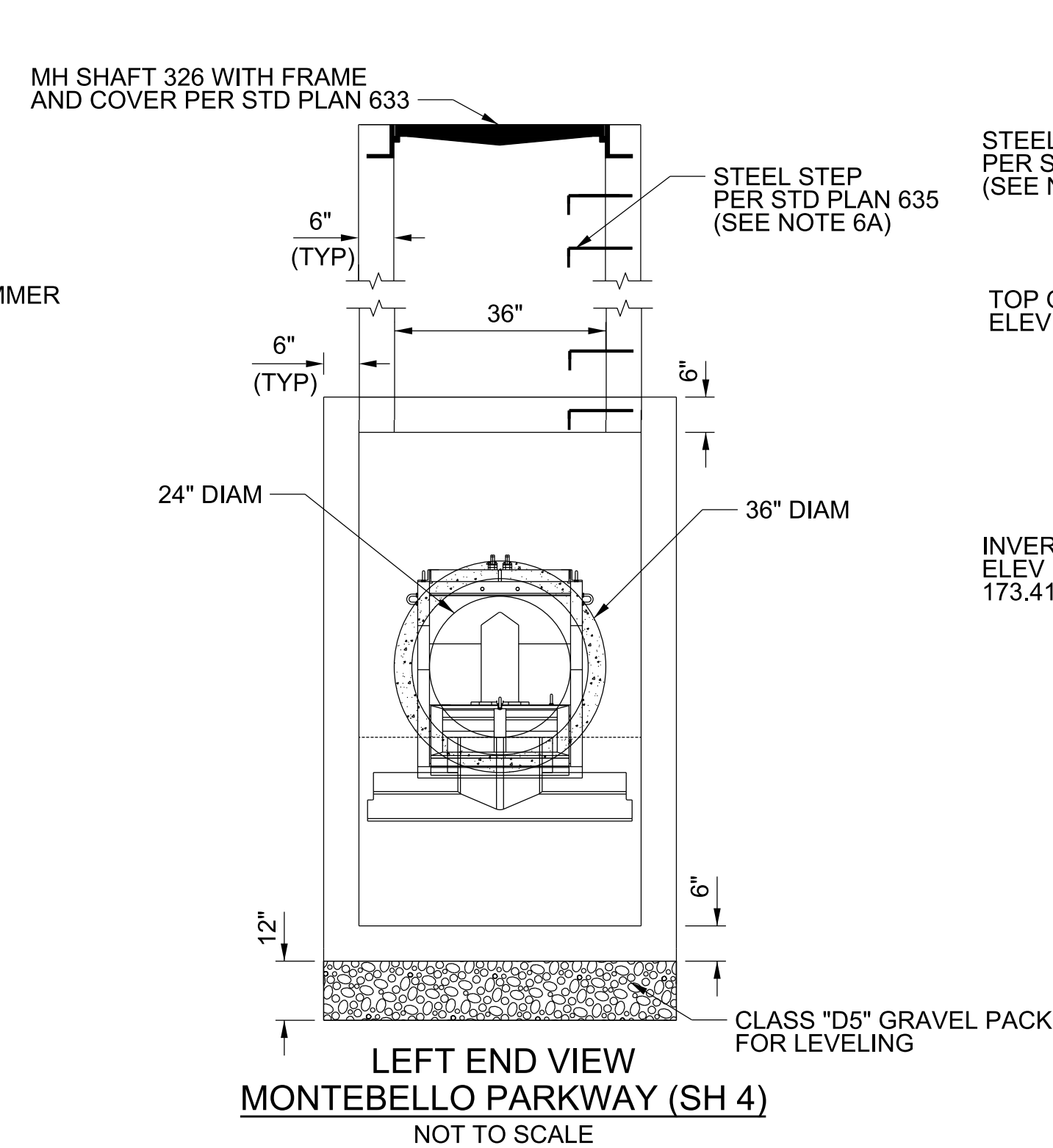
PROFESSIONAL SEAL
CHRISTOPHER RAVE
C 84117
CIVIL
STATE OF CALIFORNIA
07/10/18
PROJECT ENGINEER

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT
WATER MONITORING PLAN
PROJECT ID NO. WMU0000010
LACFCD INDEX NO. 116-D27 SHEET 14 OF 26



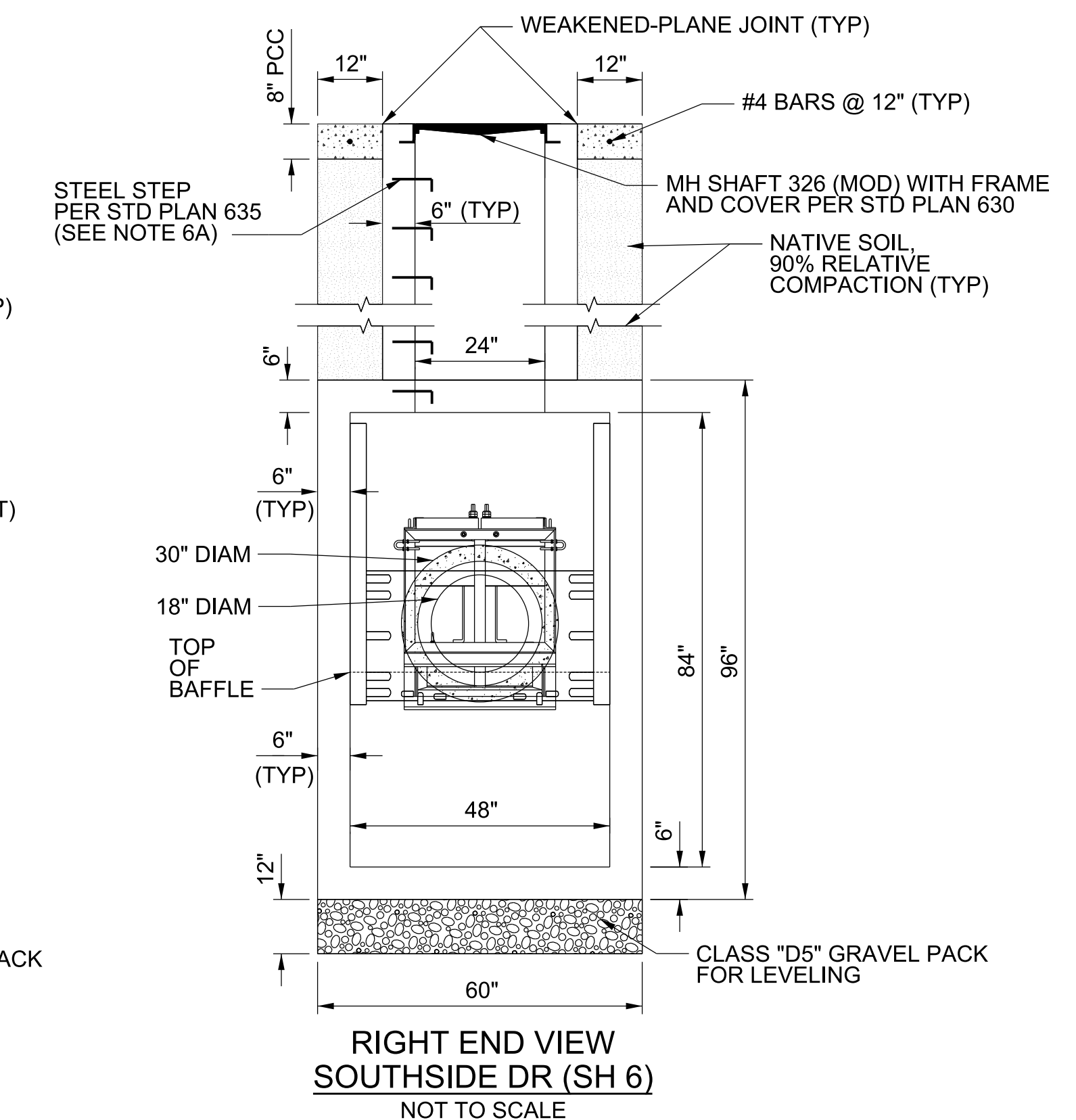
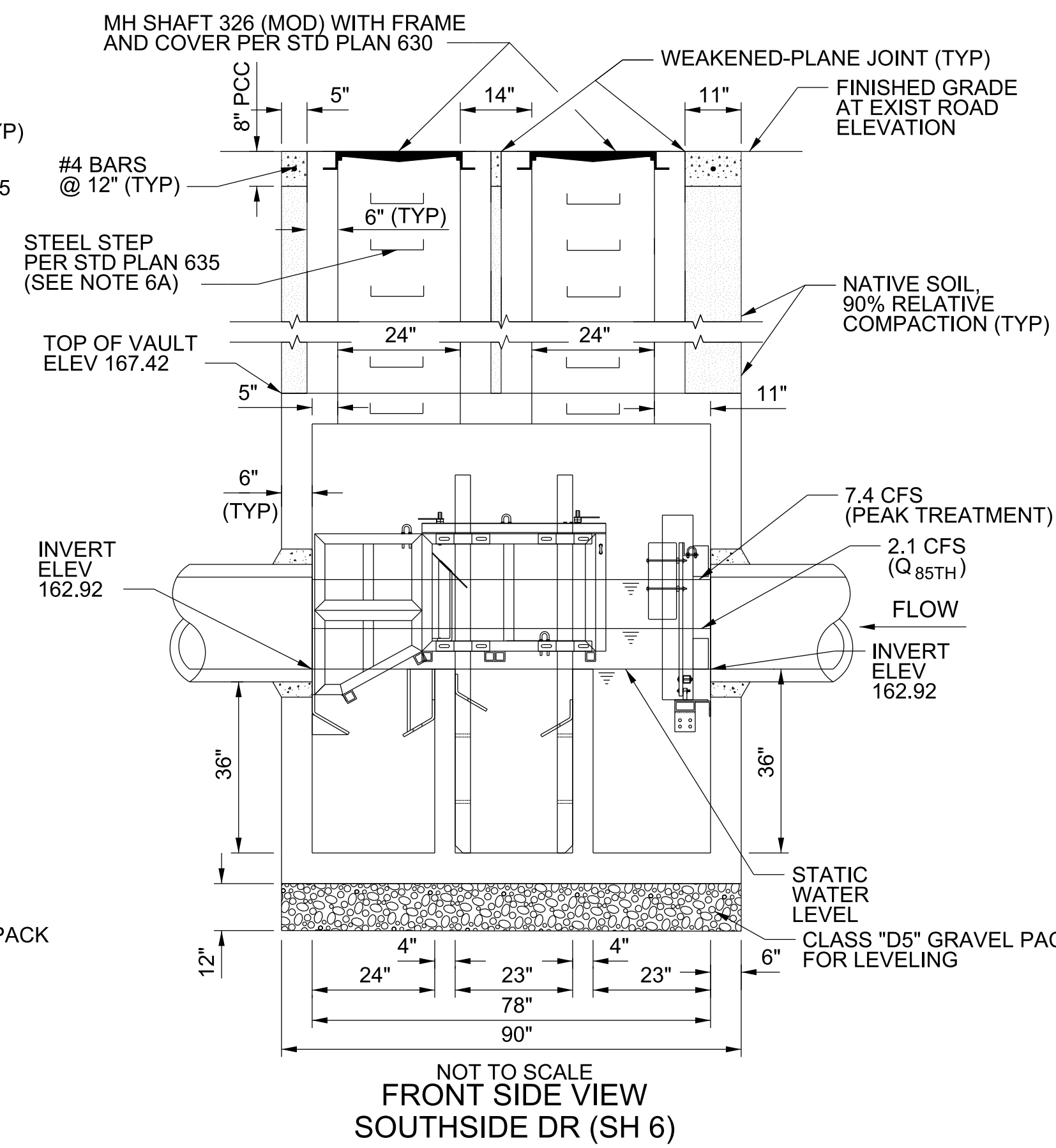
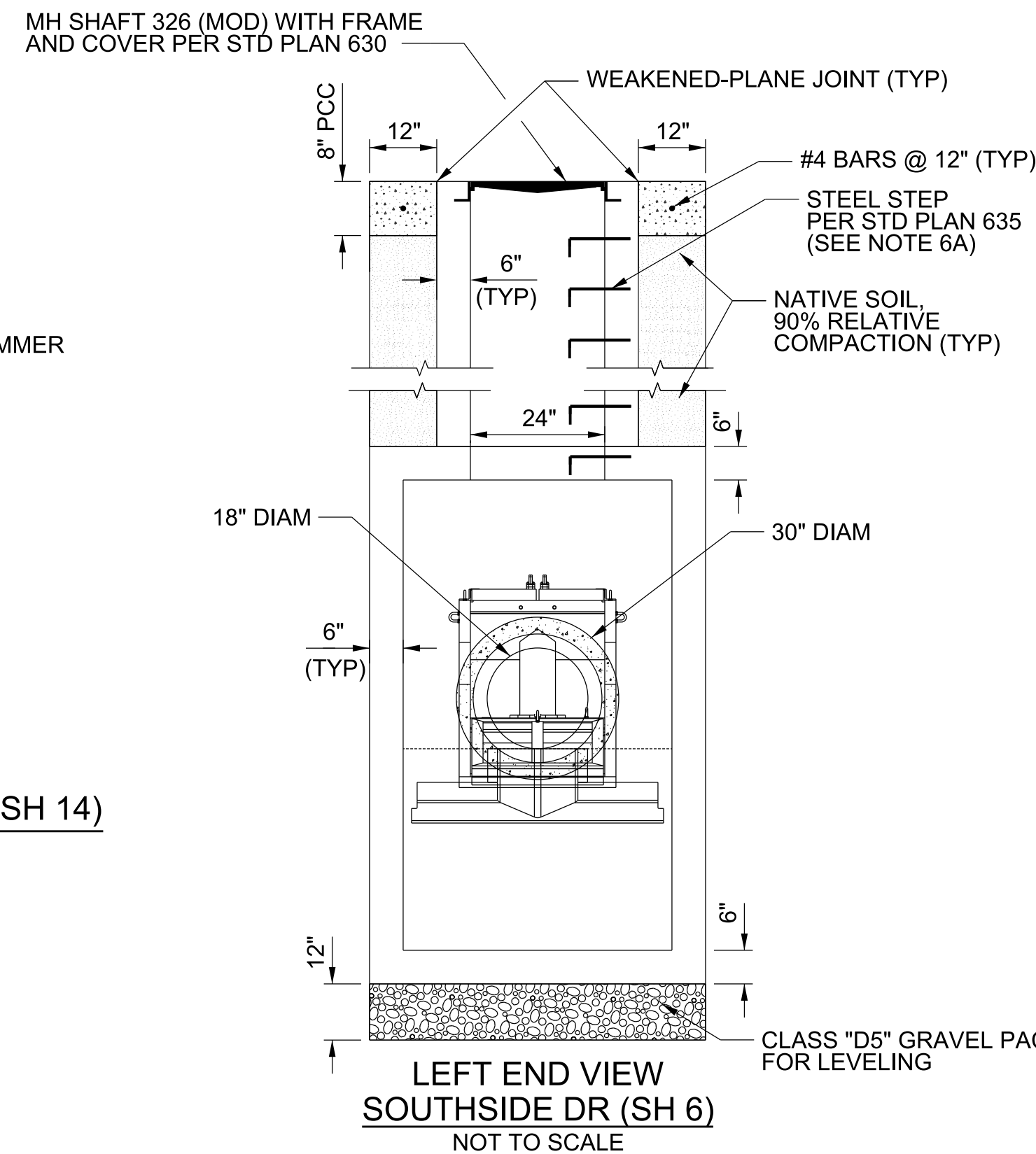
TREATMENT SPECIFICATIONS

- | | |
|--|----------|
| 1. INFLOW PIPE AREA (DRAWN AS 24" RCP) | 3.14 SF |
| 2. PEAK TREATMENT FLOW | 16.0 CFS |
| 3. SCREEN SYSTEM STORAGE VOLUME (MIN) | 28.0 CF |
| 4. TOTAL SEDIMENT VOLUME (MIN) | 88.0 CF |



TREATMENT SPECIFICATIONS

- | | |
|--|----------|
| 1. INFLOW PIPE AREA (DRAWN AS 18" RCP) | 1.77 SF |
| 2. PEAK TREATMENT FLOW | 7.40 CFS |
| 3. SCREEN SYSTEM STORAGE VOLUME (MIN) | 21.2 CF |
| 4. TOTAL SEDIMENT VOLUME (MIN) | 70.0 CF |



CONSTRUCTION NOTES

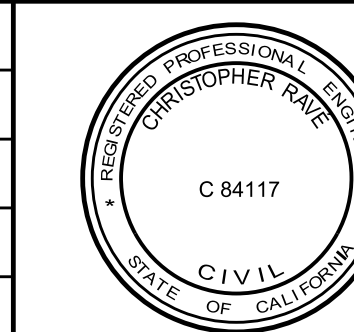
- CONCRETE 28 DAYS COMPRESSIVE STRENGTH, $F_c = 5,000$ PSI
- REINFORCING: ASTM A-615 GRADE 60
- SUPPORTS AN H20 LOADING AS INDICATED BY AASHTO
- JINT SEALANT: BUTYL RUBBER SS-S-00210
- ALL WALLS (TOP, BOTTOM, EXTERIOR SIDE) TO BE 6" THICK CONCRETE.

INSTALLATION NOTES

- INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. CANNOT INTRUDE BEYOND FLUSH.
- BAFFLES WILL BE SEALED TO THE WALLS AND FLOOR WITH GROUT.
- INVERT OF OUTFLOW PIPE SHALL BE EVEN WITH THE TOP OF THE BAFFLES.
- THE BOTTOM OF THE SKIMMER SHALL BE 6" BELOW THE INVERT OF THE OUTFLOW PIPE.
- INVERT OF THE INFLOW PIPE SHALL NOT BE BELOW THE INVERT OF THE OUTFLOW PIPE.
- THE ENGINEER SHALL DETERMINE THE SIDE OF THE MANHOLE SHAFT WHERE STEPS SHALL BE INSTALLED.

CAD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU/L. CHAVEZ

DATE	MK	DESCRIPTION
REVISIONS		



PROJECT ENGINEER: *Chris Rave* 07/10/18
DATE

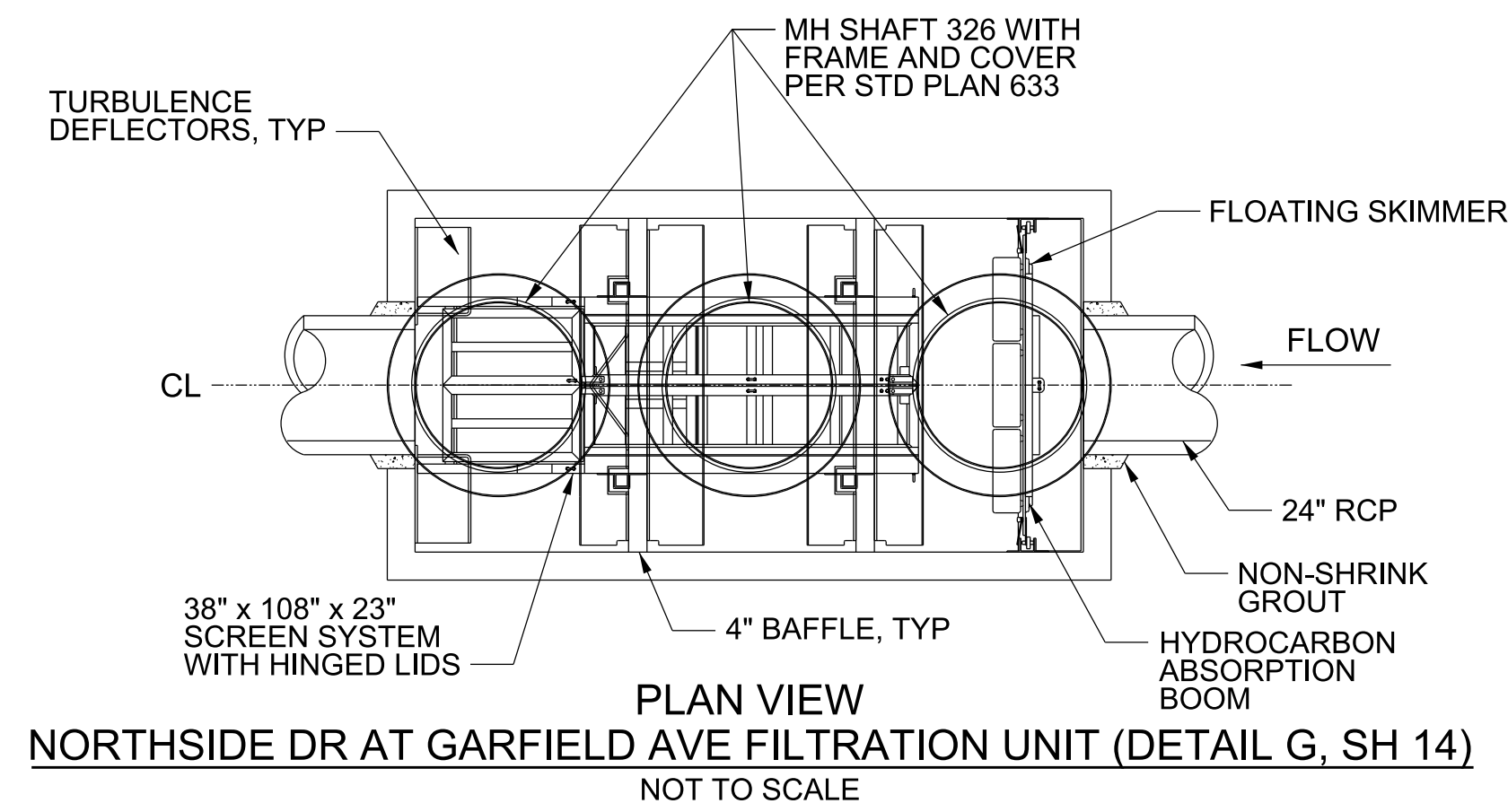
LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT

FILTRATION UNIT DETAILS

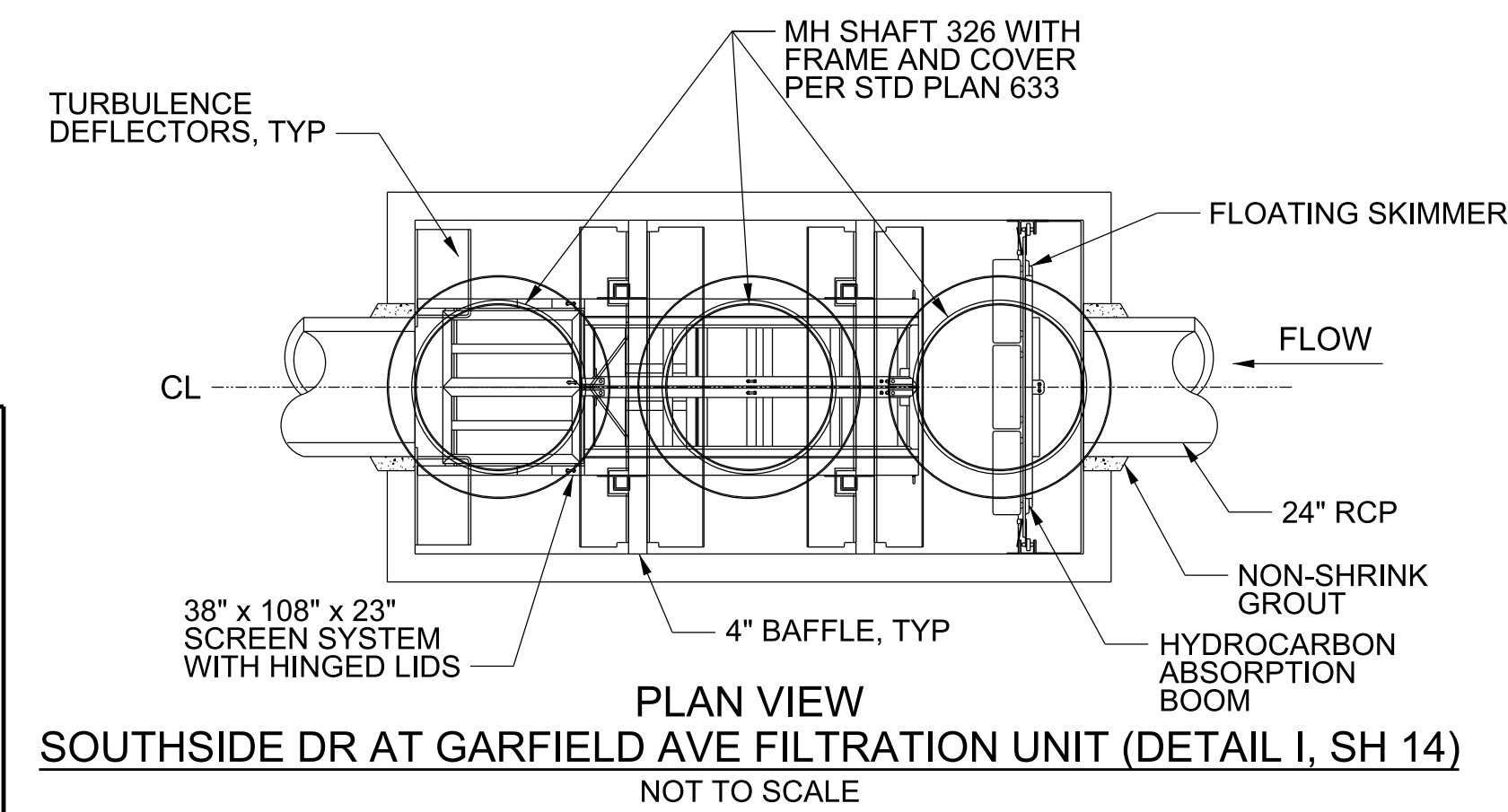
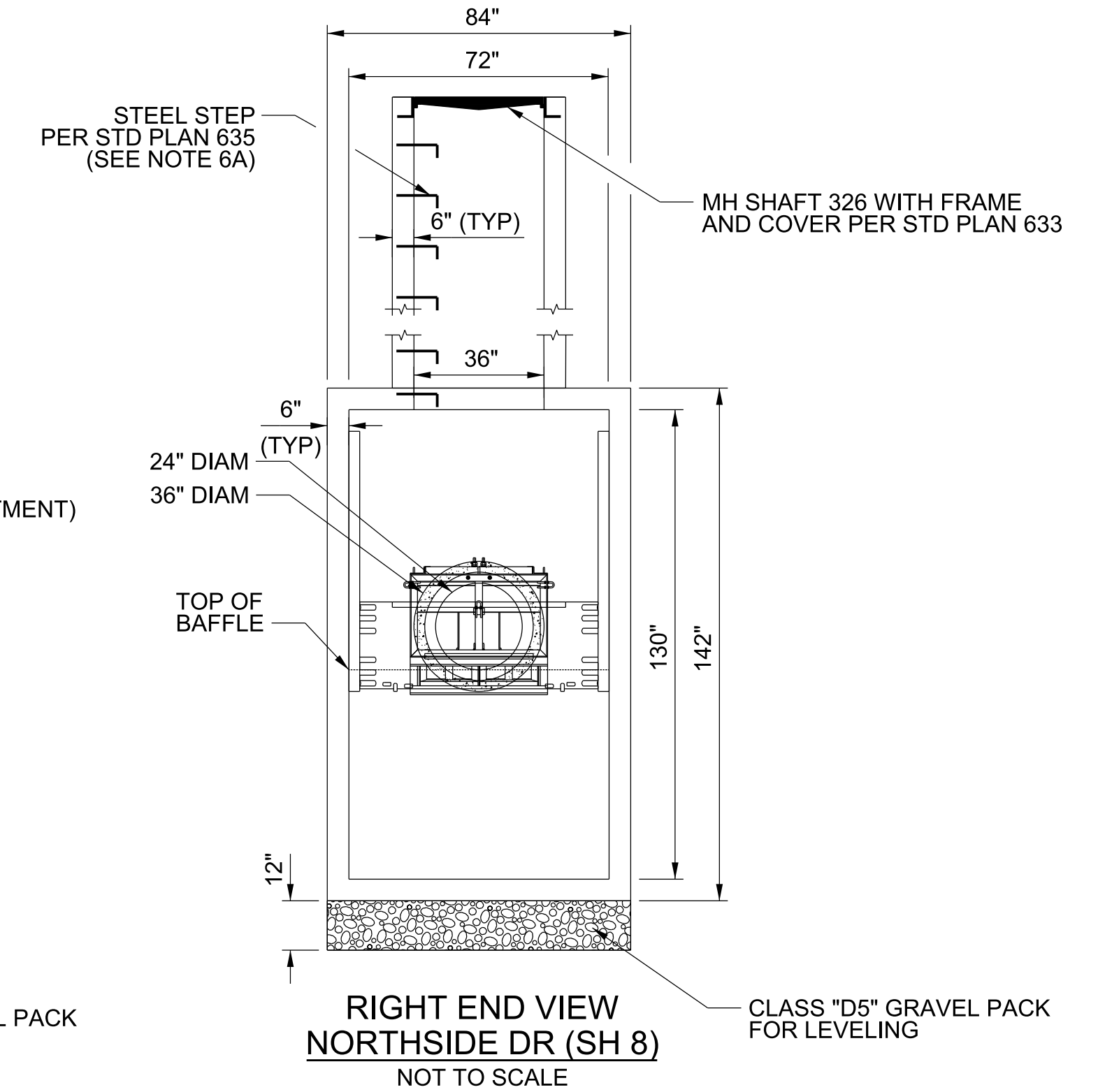
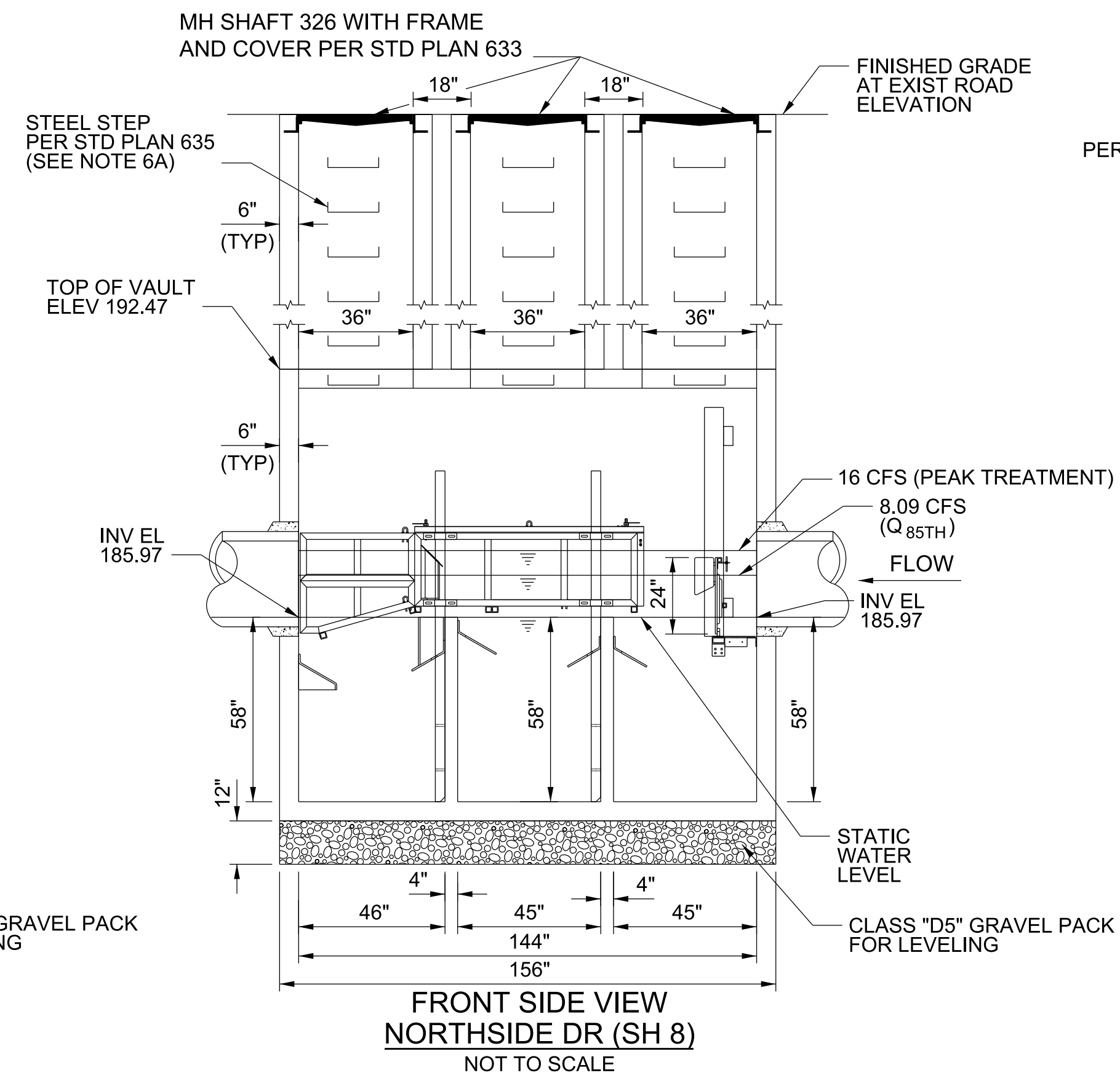
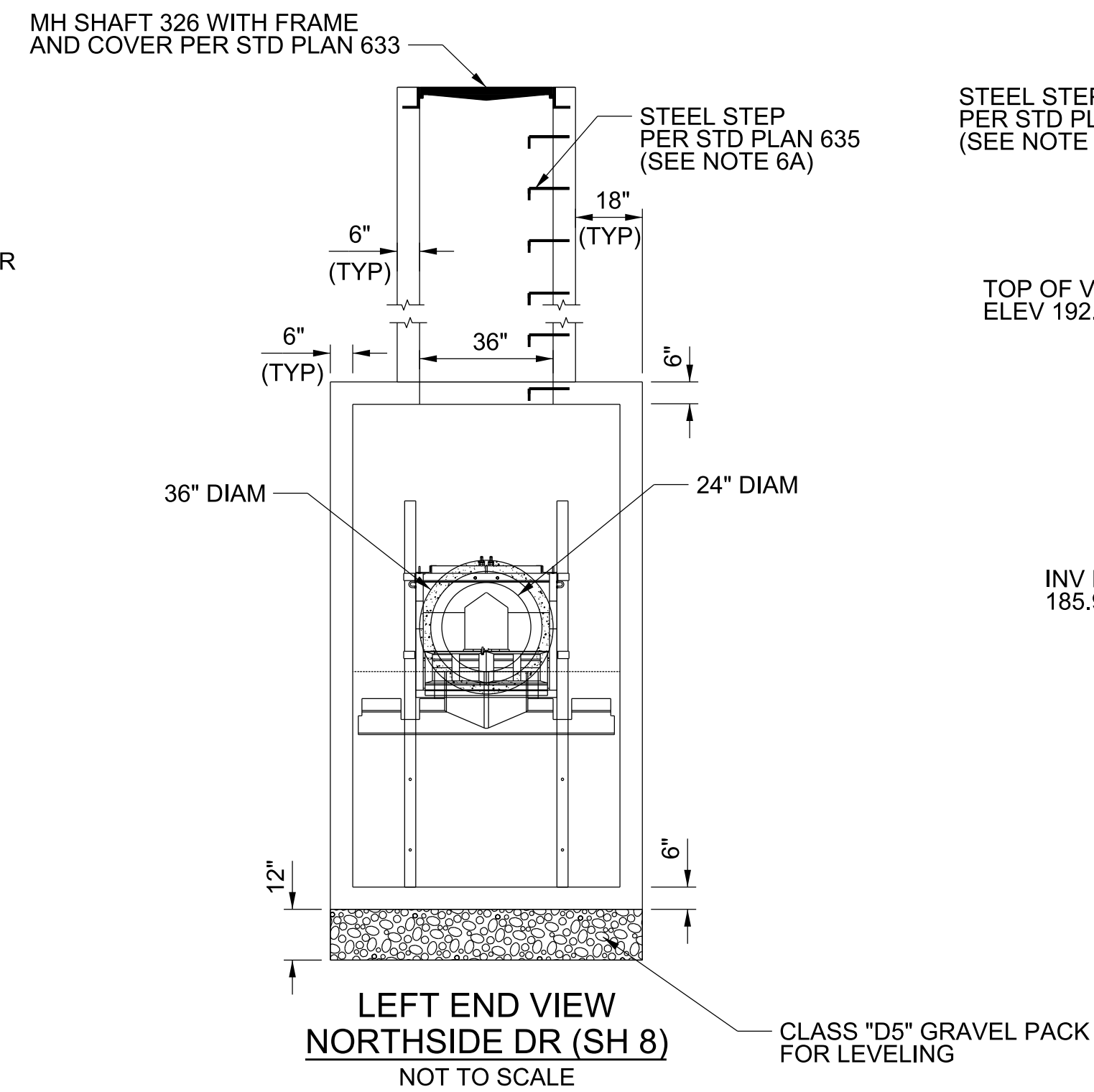
PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 SHEET 15 OF 26



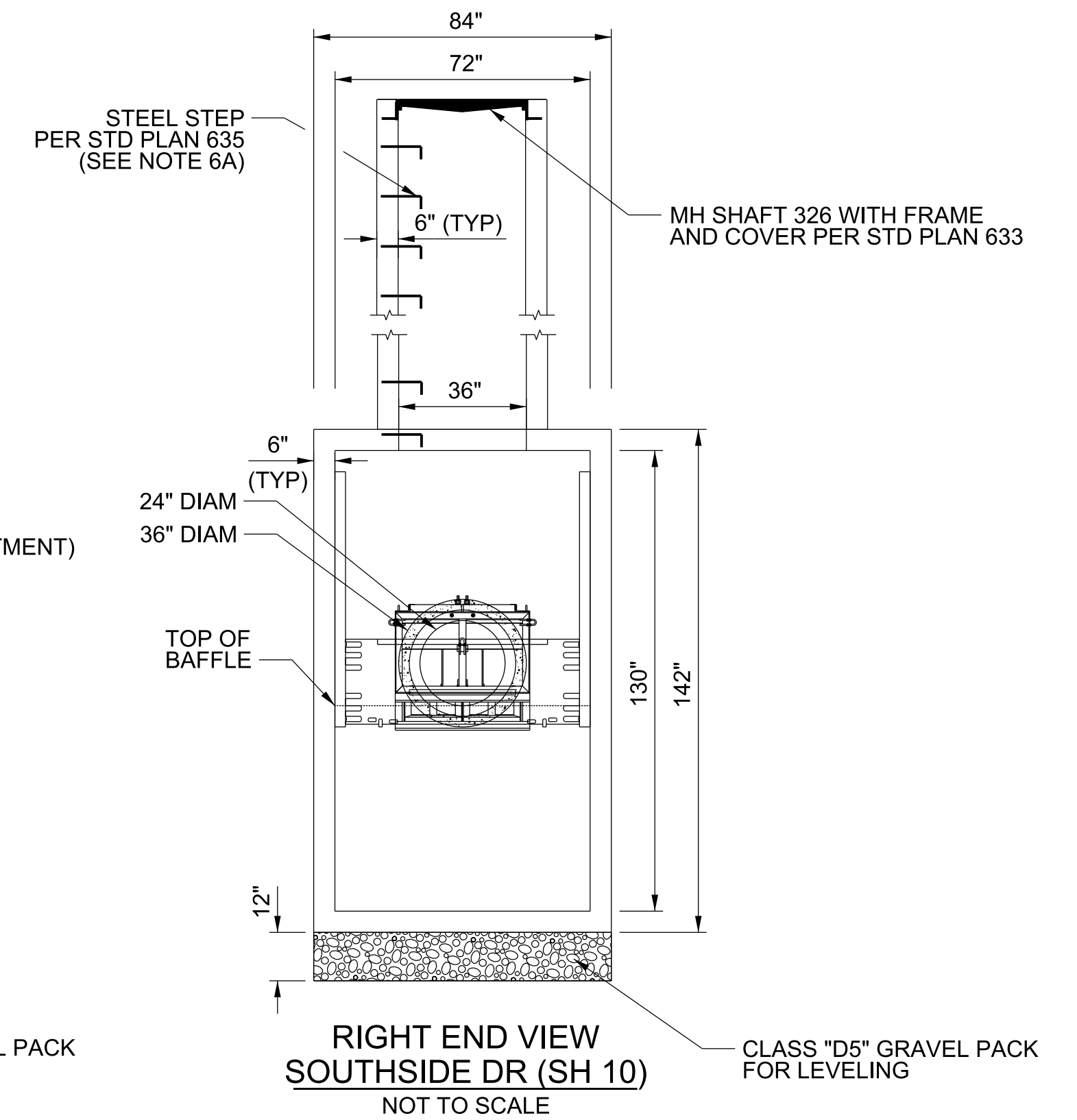
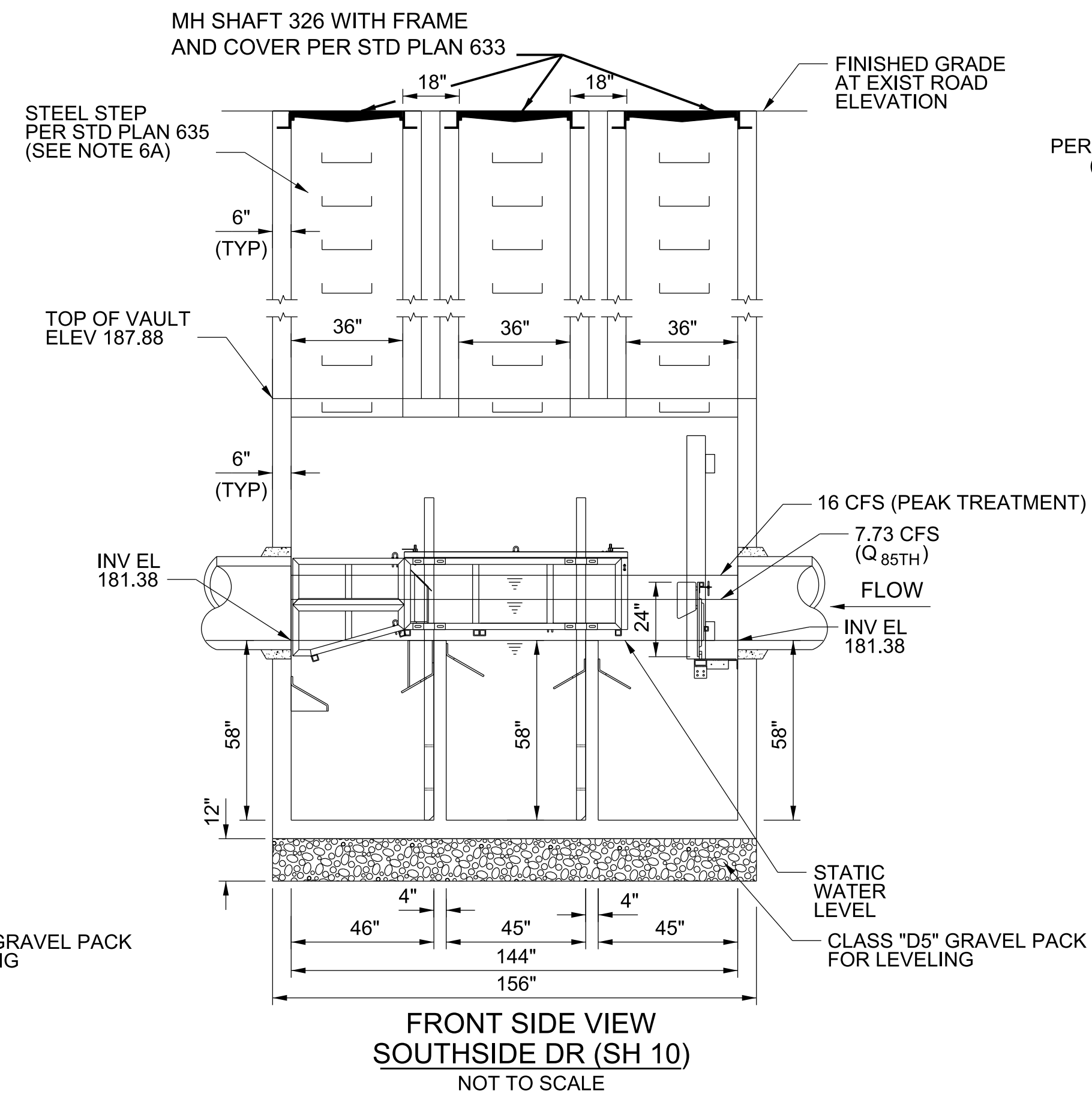
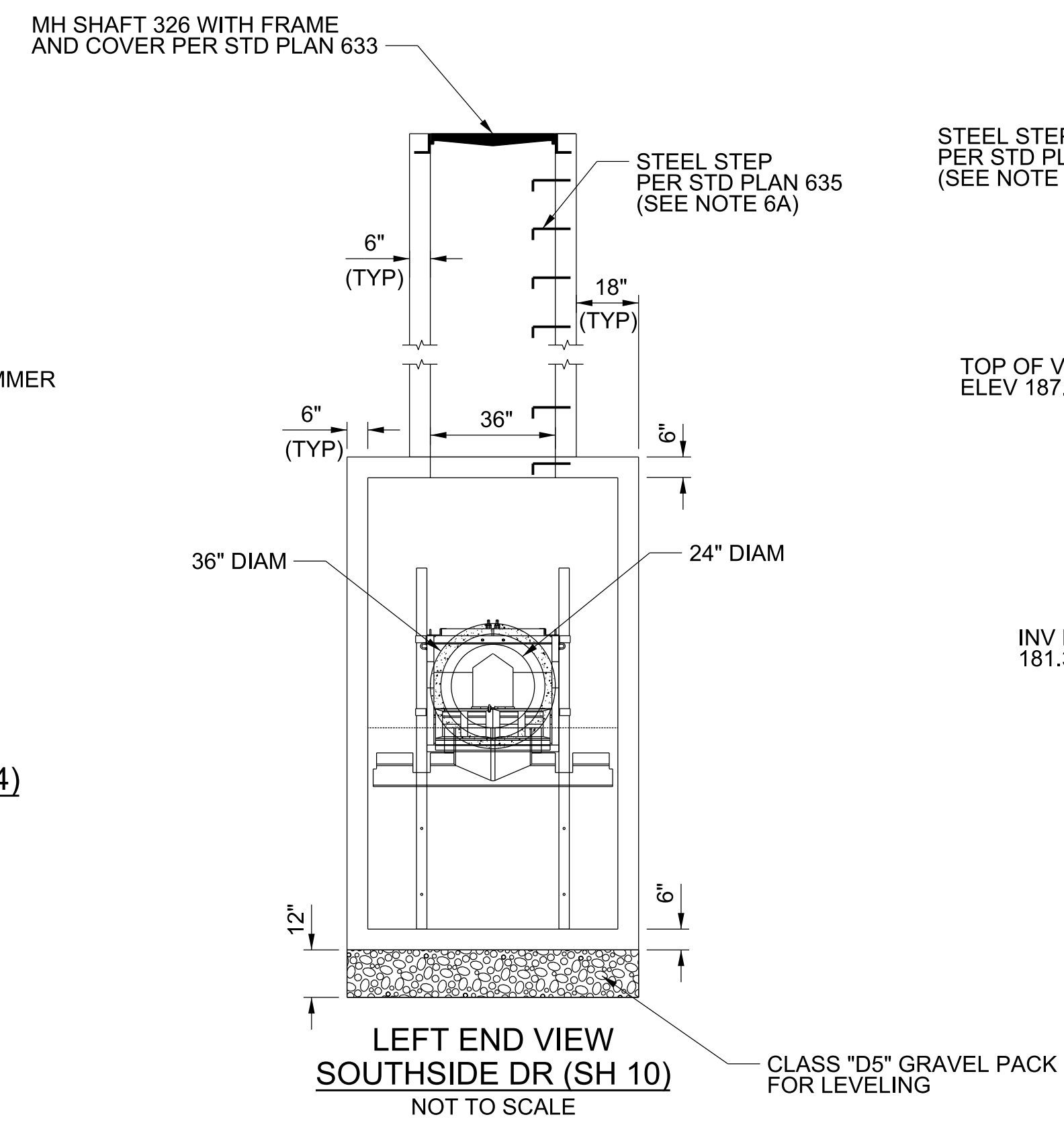
TREATMENT SPECIFICATIONS

- | | |
|--|----------|
| 1. INFLOW PIPE AREA (DRAWN AS 24" RCP) | 3.14 SF |
| 2. PEAK TREATMENT FLOW | 16.0 CFS |
| 3. SCREEN SYSTEM STORAGE VOLUME (MIN) | 54.6 CF |
| 4. TOTAL SEDIMENT VOLUME (MIN) | 329 CF |



TREATMENT SPECIFICATIONS

- | | |
|--|----------|
| 1. INFLOW PIPE AREA (DRAWN AS 24" RCP) | 3.14 SF |
| 2. PEAK TREATMENT FLOW | 16.0 CFS |
| 3. SCREEN SYSTEM STORAGE VOLUME (MIN) | 54.6 CF |
| 4. TOTAL SEDIMENT VOLUME (MIN) | 329 CF |



CONSTRUCTION NOTES

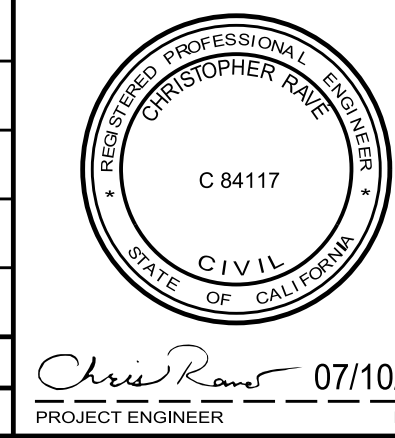
- CONCRETE 28 DAYS COMPRESSIVE STRENGTH, F_c = 5,000 PSI
- REINFORCING: ASTM A-615 GRADE 60
- SUPPORTS AN H₂O LOADING AS INDICATED BY AASHTO
- JOINT SEALANT: BUTYL RUBBER SS-S-00210
- ALL WALLS (TOP, BOTTOM, EXTERIOR SIDE) TO BE 6" THICK CONCRETE.

INSTALLATION NOTES

- INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. CANNOT INTRUDE BEYOND FLUSH.
- BAFFLES WILL BE SEALED TO THE WALLS AND FLOOR WITH GROUT.
- INVERT OF OUTFLOW PIPE SHALL BE EVEN WITH THE TOP OF THE BAFFLES.
- THE BOTTOM OF THE SKIMMER SHALL BE 6" BELOW THE INVERT OF THE OUTFLOW PIPE.
- INVERT OF THE INFLOW PIPE SHALL NOT BE BELOW THE INVERT OF THE OUTFLOW PIPE.
- THE ENGINEER SHALL DETERMINE THE SIDE OF THE MANHOLE SHAFT WHERE STEPS SHALL BE INSTALLED.

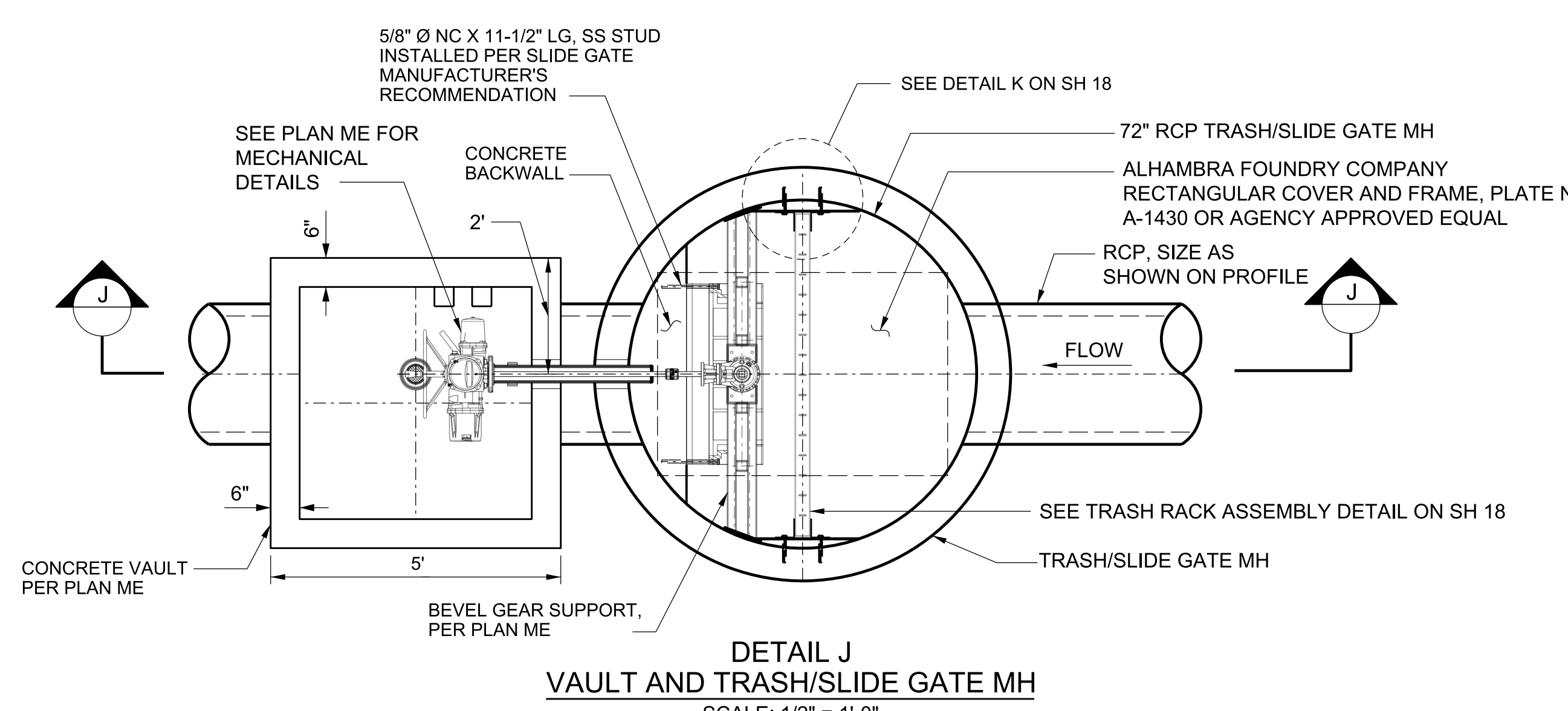
CAD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU/L. CHAVEZ

DATE	MK	DESCRIPTION
REVISIONS		

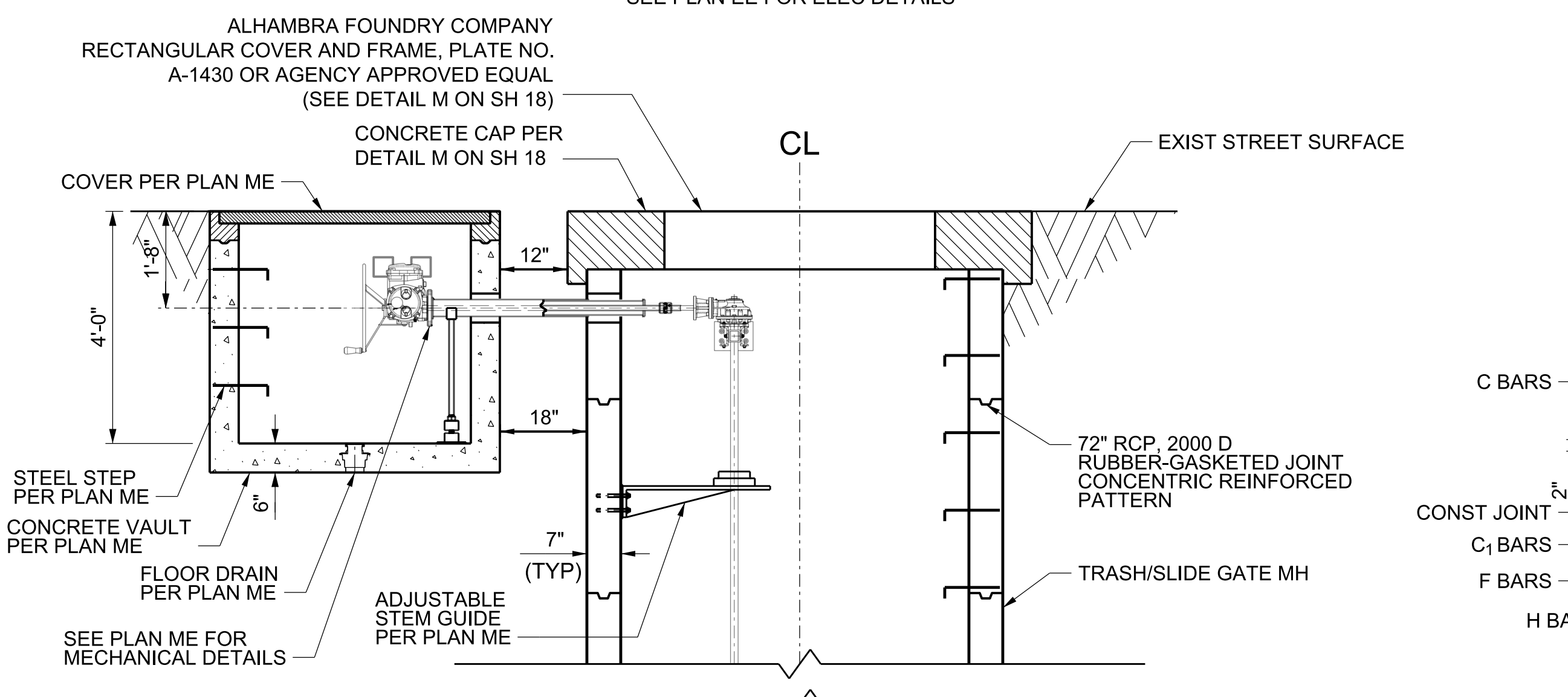


LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 FILTRATION UNIT DETAILS
 PROJECT ID NO. WMU0000010

PROJECT ENGINEER: *Chris Rave* 07/10/18
 DATE: 07/10/18
 LACFCD INDEX NO. 116-D27
 SHEET 16 OF 26

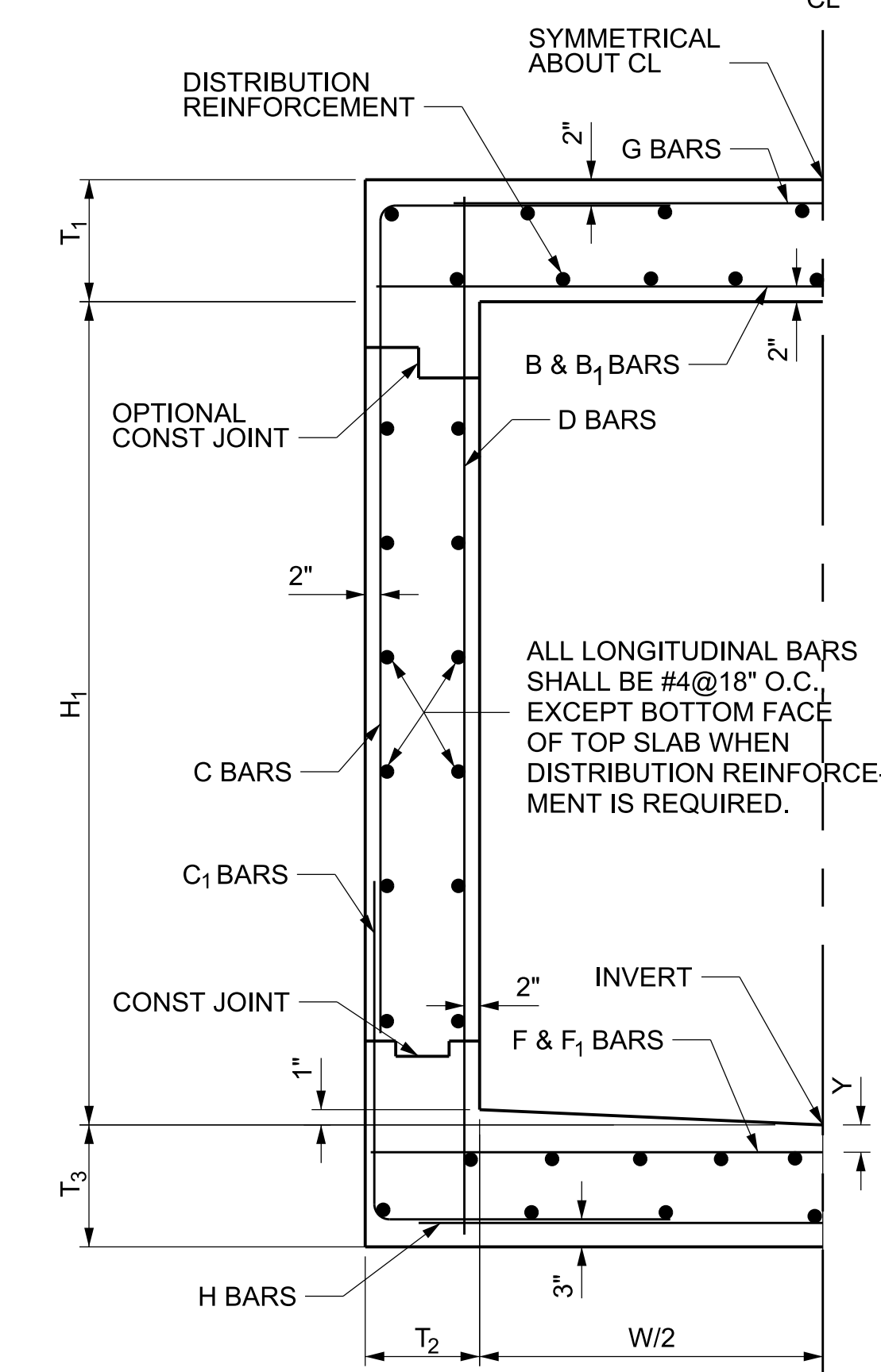


DETAIL J
VAULT AND TRASH/SLIDE GATE MH
SCALE: 1/2" = 1'-0"

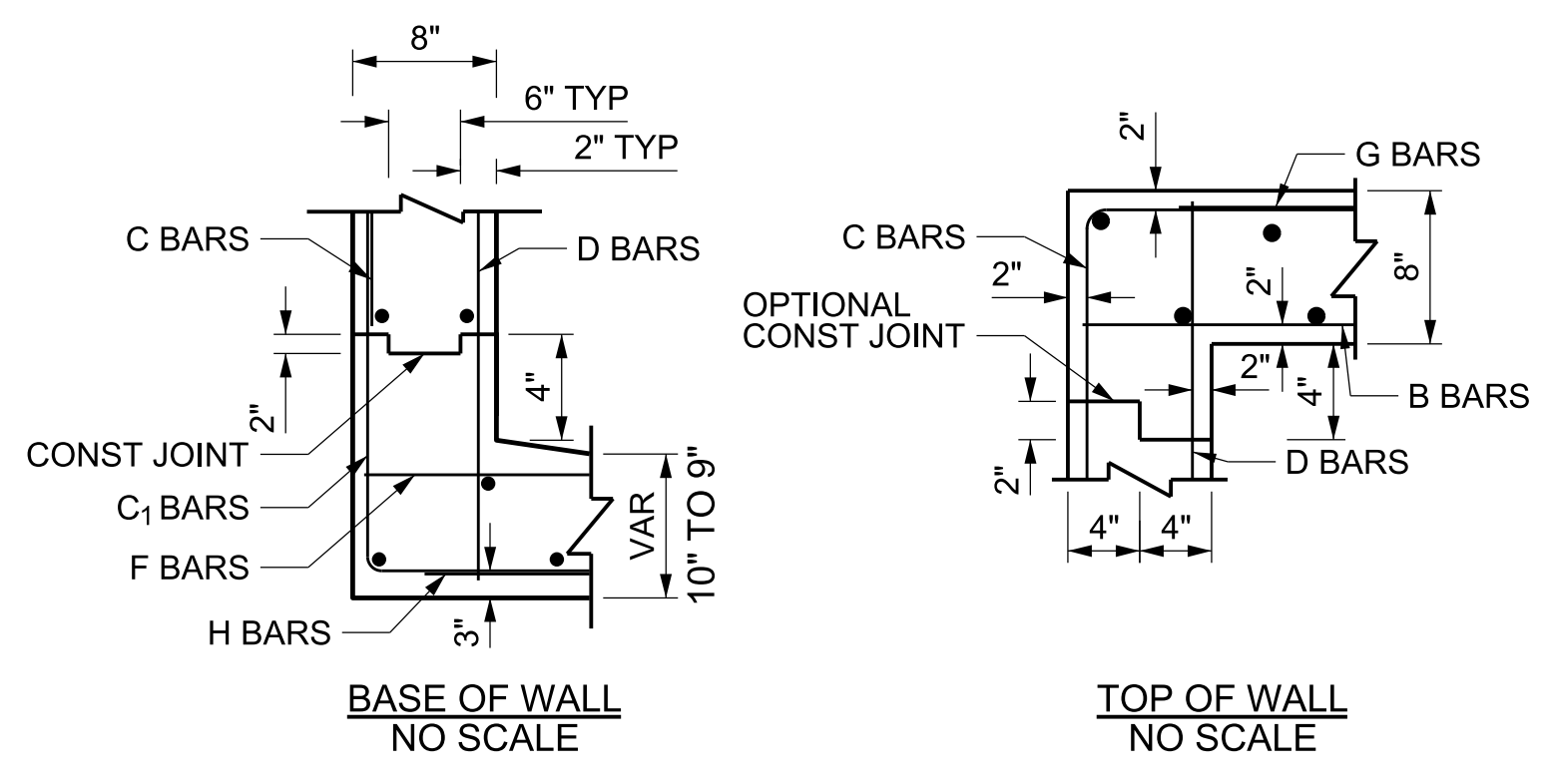


SECTION J-J
VAULT AND TRASH/SLIDE GATE MH
SCALE: 1/2" = 1'-0"

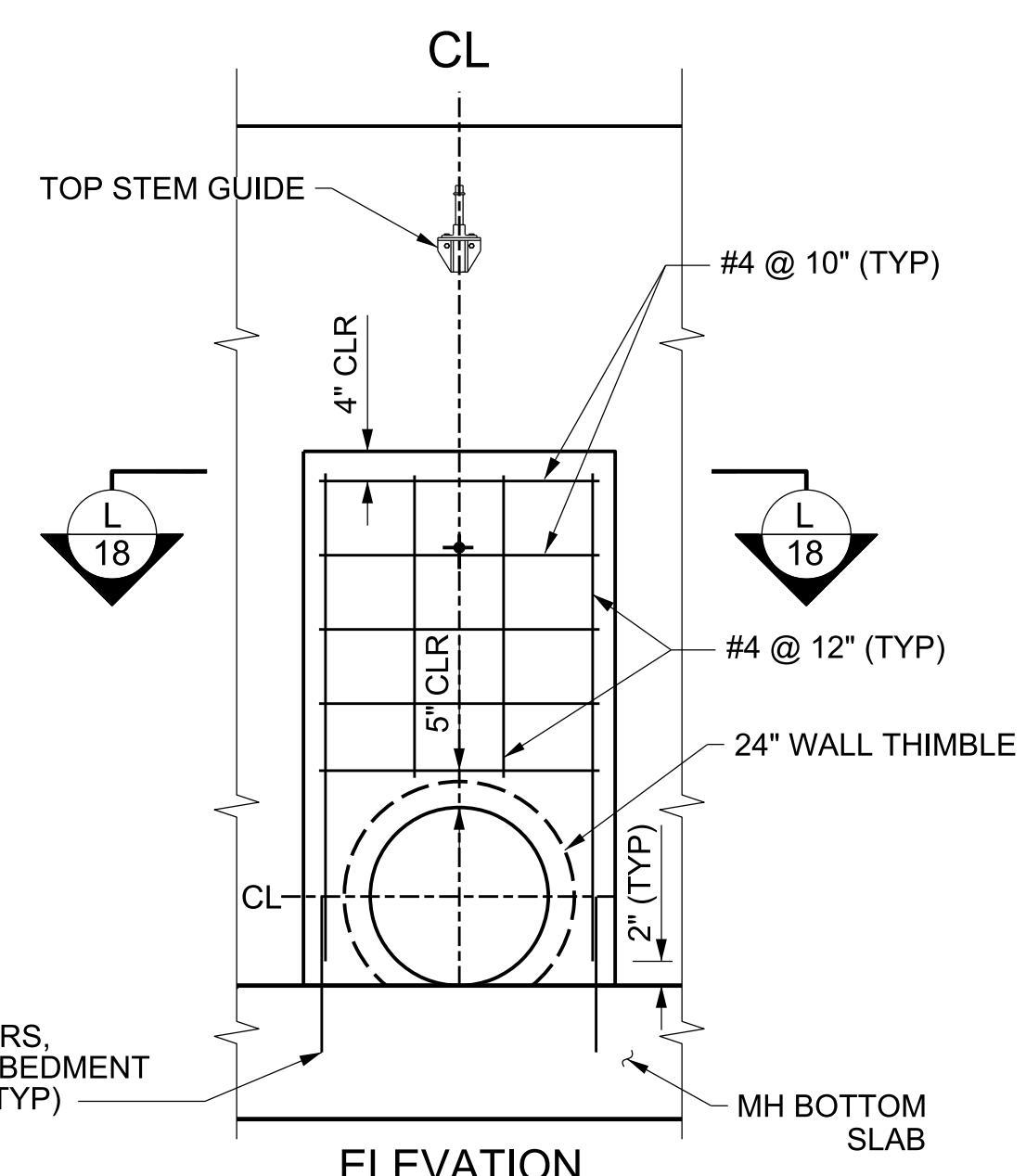
STRUCTURAL VALUES		
LOCATION	MONTABELLO PKWY/LEONARD AVE	SOUTHSIDE DR/COOLIDGE WY
DESIGN COVER	2'	3'-4"
WIDTH	W	4'
HEIGHT	H ₁	3.5'
TOP SLAB THICKNESS	T ₁	8"
SIDE WALL THICKNESS	T ₂	8"
BOTTOM SLAB THICKNESS	T ₃	9"
CONCRETE COVER (3" MIN)	Y	3"
B BARS	BAR NO. & SPACING	5 @ 15"
B BARS	LENGTH	5 ft
B ₁ BARS	BAR NO. & SPACING	5 @ 15"
B ₁ BARS	LENGTH	4.5 ft
C BARS	BAR NO. & SPACING	5 @ 15"
C BARS	HOR. LENGTH	1.2 ft
C BARS	VERT. LENGTH	3.0 ft
C ₁ BARS	BAR NO. & SPACING	5 @ 15"
C ₁ BARS	HOR. LENGTH	1.2 ft
C ₁ BARS	VERT. LENGTH	3.4 ft
D BARS	BAR NO. & SPACING	5 @ 15
D BARS	LENGTH	4.58 ft
F BARS	BAR NO. & SPACING	5 @ 15"
F BARS	LENGTH	5 ft
F ₁ BARS	BAR NO. & SPACING	5 @ 15"
F ₁ BARS	LENGTH	4.5 ft
G BARS	BAR NO. & SPACING	5 @ 15"
G BARS	LENGTH	5 ft
H BARS	BAR NO. & SPACING	5 @ 15"
H BARS	LENGTH	5 ft



DIVERSION STRUCTURE
STRUCTURAL DETAIL
NOT TO SCALE



LONGITUDINAL CONSTRUCTION JOINT DETAILS



ELEVATION
SCALE: 1/2" = 1'-0"
TYPICAL AT ALL LOCATIONS WITH SLIDE GATE.

STRUCTURAL NOTES

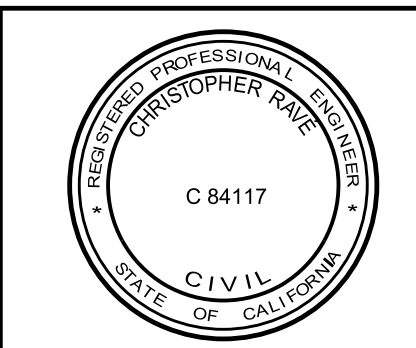
- DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE CLEAR DISTANCE BETWEEN FACE OF CONCRETE AND FACE OF REINFORCEMENT.
- CONCRETE DIMENSIONS SHALL BE MEASURED HORIZONTALLY OR VERTICALLY ON THE PROFILE, AND PARALLEL TO OR AT RIGHT ANGLES (OR RADIALLY) TO CENTERLINE OF CONDUIT ON THE PLAN EXCEPT AS OTHERWISE SHOWN.
- ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)," LATEST EDITION, SECTION 7.2.
- TRANSVERSE CONSTRUCTION JOINTS IN WALLS AND SLABS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED. TRANSVERSE CONSTRUCTION JOINTS SHALL BE NORMAL OR RADIAL TO THE CENTERLINE OF CONSTRUCTION.
- THE TRANSVERSE REINFORCING BARS SHALL TERMINATE ONE AND ONE-HALF INCHES FROM THE CONCRETE SURFACES UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DETAILS.
- EXPOSED SURFACES OF CONCRETE MEMBERS SHALL BE ROUNDED OR BEVELED.
- NO SPLICES IN TRANSVERSE BARS REINFORCEMENT WILL BE PERMITTED OTHER THAN SHOWN ON THE PLAN WITHOUT APPROVAL OF THE ENGINEER. NO MORE THAN TWO SPLICES WILL BE PERMITTED IN ANY LONGITUDINAL BAR BETWEEN TRANSVERSE JOINTS. SPLICES SHALL BE STAGGERED.
- LONGITUDINAL BARS SHALL BE LAPPED 20 BAR DIAMETERS AT SPLICES. TRANSVERSE BARS SHALL BE LAPPED 30 BAR DIAMETERS AT SPLICES.
- LONGITUDINAL BARS SHALL BE CONTINUOUS AND EXTEND THROUGH ALL CONSTRUCTION JOINTS.
- UNLESS OTHERWISE SHOWN ON THE PLANS, TRANSVERSE CONSTRUCTION JOINTS (IN BOTH SLABS AND WALLS) SHALL BE PLACED AT THE END OF EACH POUR, BUT THE SPACING THEREOF SHALL NOT BE LESS THAN 10 FEET.
- AT THE BEGINNING AND ENDING OF ALL POURS, A CURTAIN OF REINFORCEMENT COMPOSED OF B, C, C₁, D, F, F₁, G, AND H BARS SHALL BE PLACED THREE INCHES FROM THE TRANSVERSE CONSTRUCTION JOINT.
- D BARS MAY BE SPLICED 20 BAR DIAMETERS AT THE LOWER LONGITUDINAL CONSTRUCTION JOINT, AT CONTRACTOR'S OPTION.
- IN ALL SECTIONS LAP C AND C₁ BARS, THE VERTICAL LENGTH OF C AND C₁ HAS BEEN CALCULATED FOR A FOUR-INCH STARTER WALL. IF THE HEIGHT OF THE STARTER WALL IS VARIED, THE VERTICAL LENGTH OF THE C AND C₁ BARS SHALL BE VARIED CORRESPONDINGLY SO AS TO MAINTAIN A 30 DIAMETER LAP BETWEEN THE TWO BARS. THE LAPS SHALL BE BASED ON THE SMALLER BARS.
- CONCRETE QUANTITIES ARE BASED ON A SIX-BY-SIX INCH FILLET AND STEEL QUANTITIES DO NOT INCLUDE ANY OPTIONAL SPLICES.
- GROUT BETWEEN ANY CUT SURFACES WITHIN THE STORM DRAIN TO PREVENT WATER FROM SEEPING IN-BETWEEN THE CONNECTIONS.

STRUCTURAL DESIGN CRITERIA

LACFCD STRUCTURAL DESIGN MANUAL
DATED APRIL 1982 + 2000 UPDATES

- LIVE LOAD**
HS 20-44 UNLESS OTHERWISE NOTED
- DEAD LOAD**
EARTH LOAD: w = 120 PCF
K_u = K_{u'} = 0.150
B_d = OUTSIDE WIDTH OF BOX PLUS 3 FEET
SIDE EARTH ACTIVE = 37 PCF
INTERNAL WATER PRESSURE: 62.4 PSF PER FOOT OF DEPTH
WEIGHT OF CONCRETE: 150 PCF
- ALLOWABLE STRESSES**
F_c = 4000 PSI AT 28 DAYS
F_y = 60,000 PSI
- SHEAR AND BOND STRESSES PER THE LATEST EDITION OF ACI 318

CAD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU/L. CHAVEZ

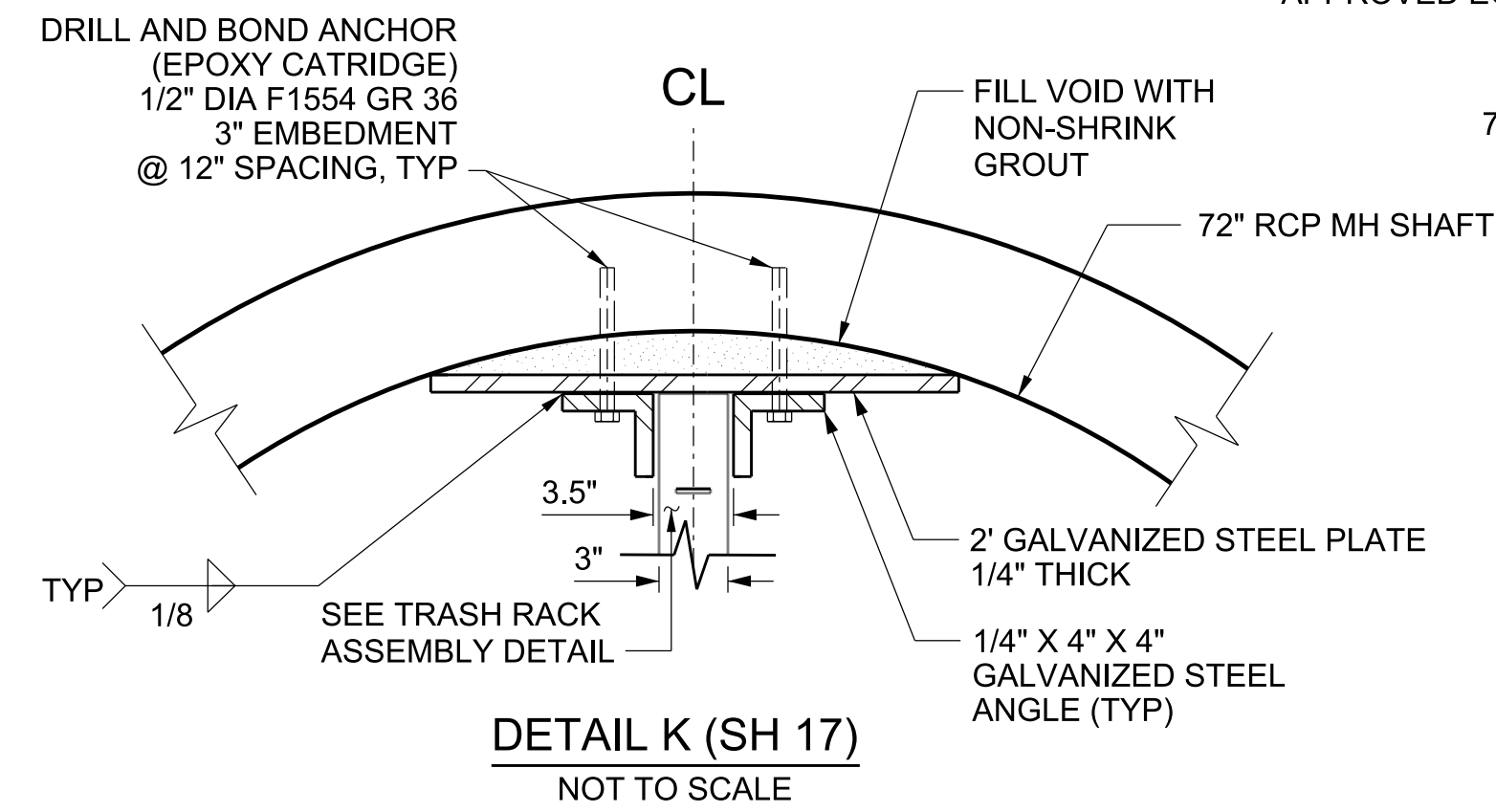


Chris Rave 07/10/18
PROJECT ENGINEER DATE

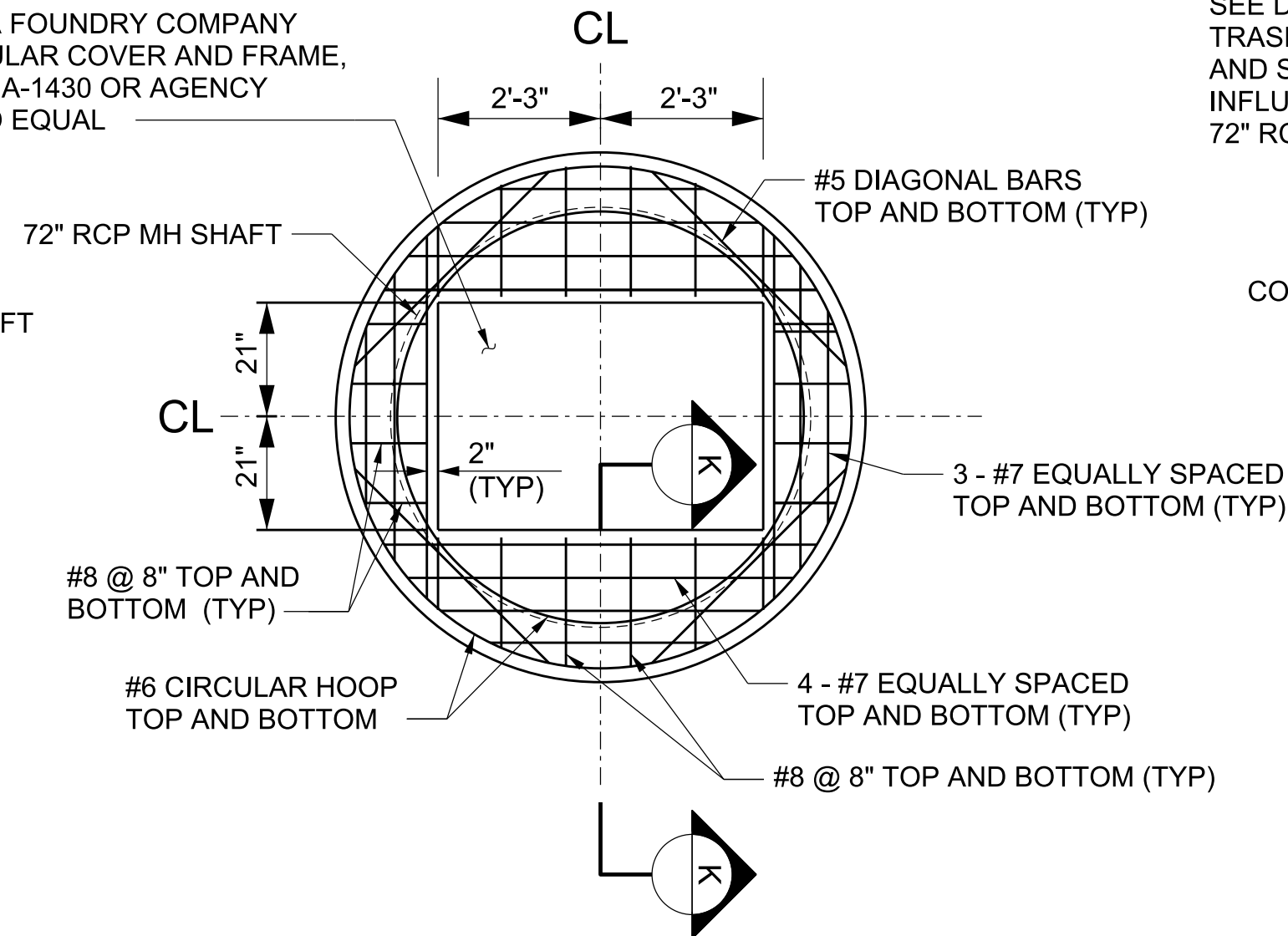
LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 STRUCTURAL DETAILS AND SECTIONS
 PROJECT ID NO. WMU0000010

LACFCD INDEX NO. 116-D27 SHEET 17 OF 26

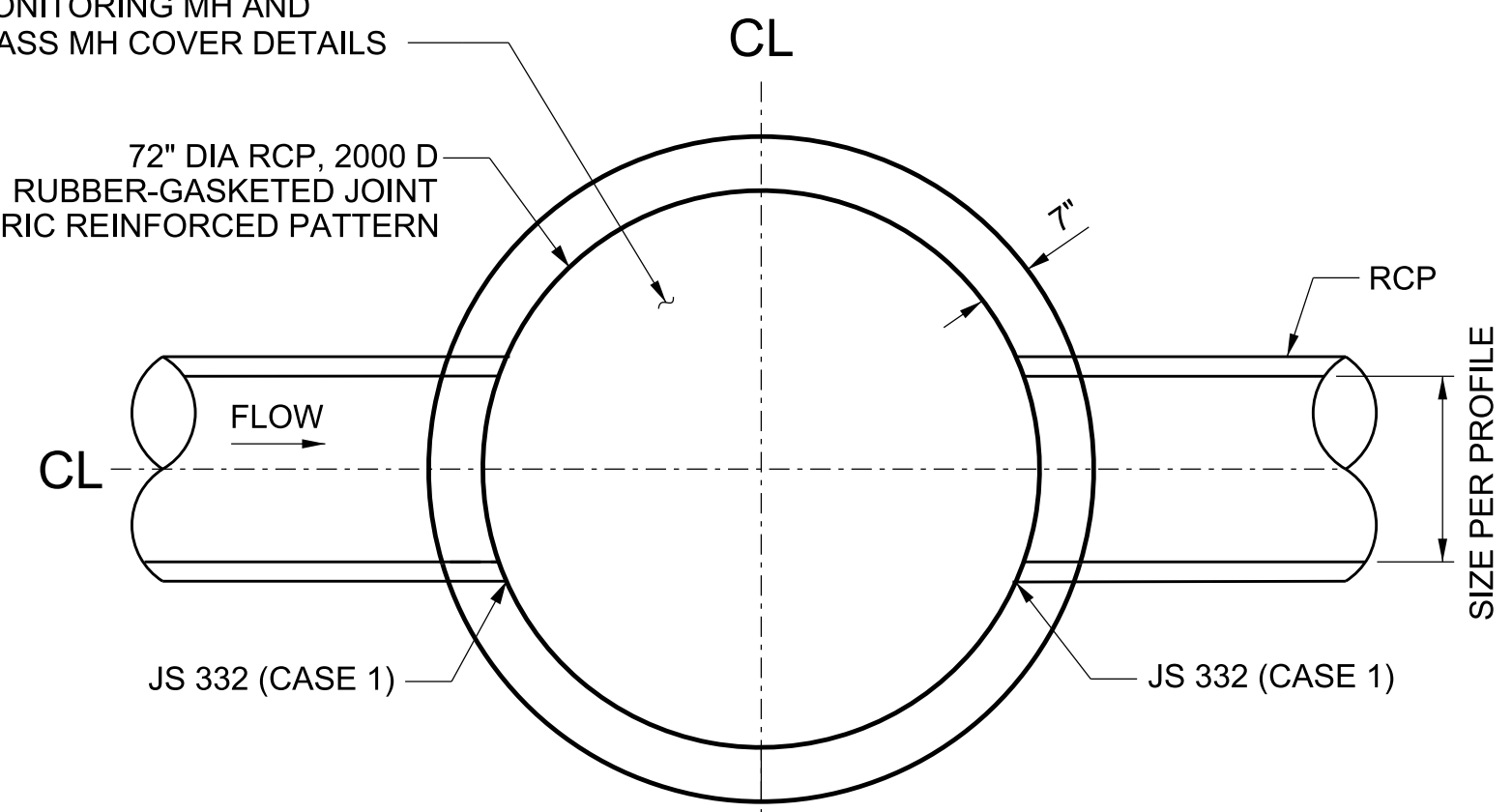
DATE	MK	DESCRIPTION



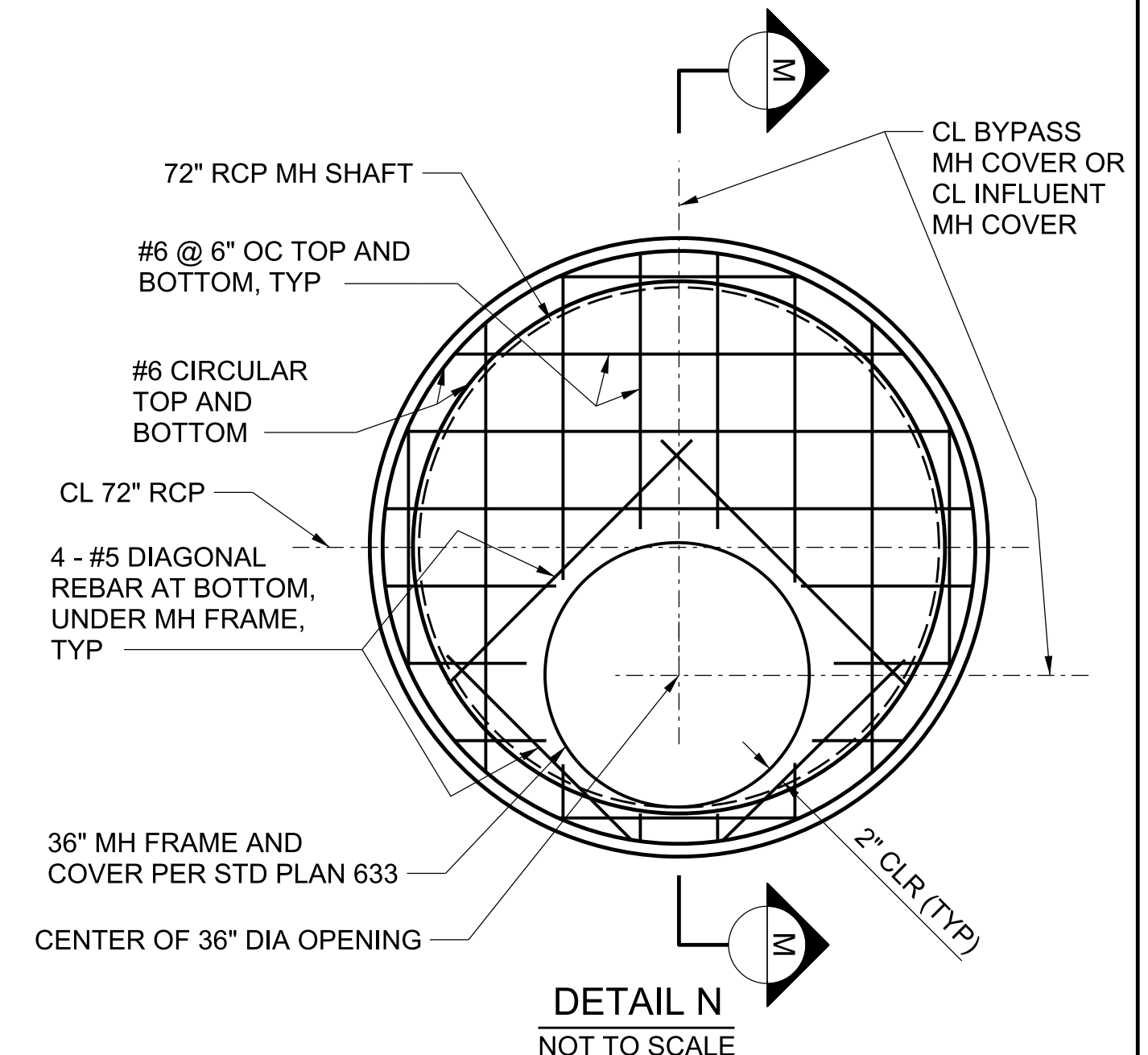
ALHAMBRA FOUNDRY COMPANY
RECTANGULAR COVER AND FRAME,
PLATE NO. A-1430 OR AGENCY
APPROVED EQUAL



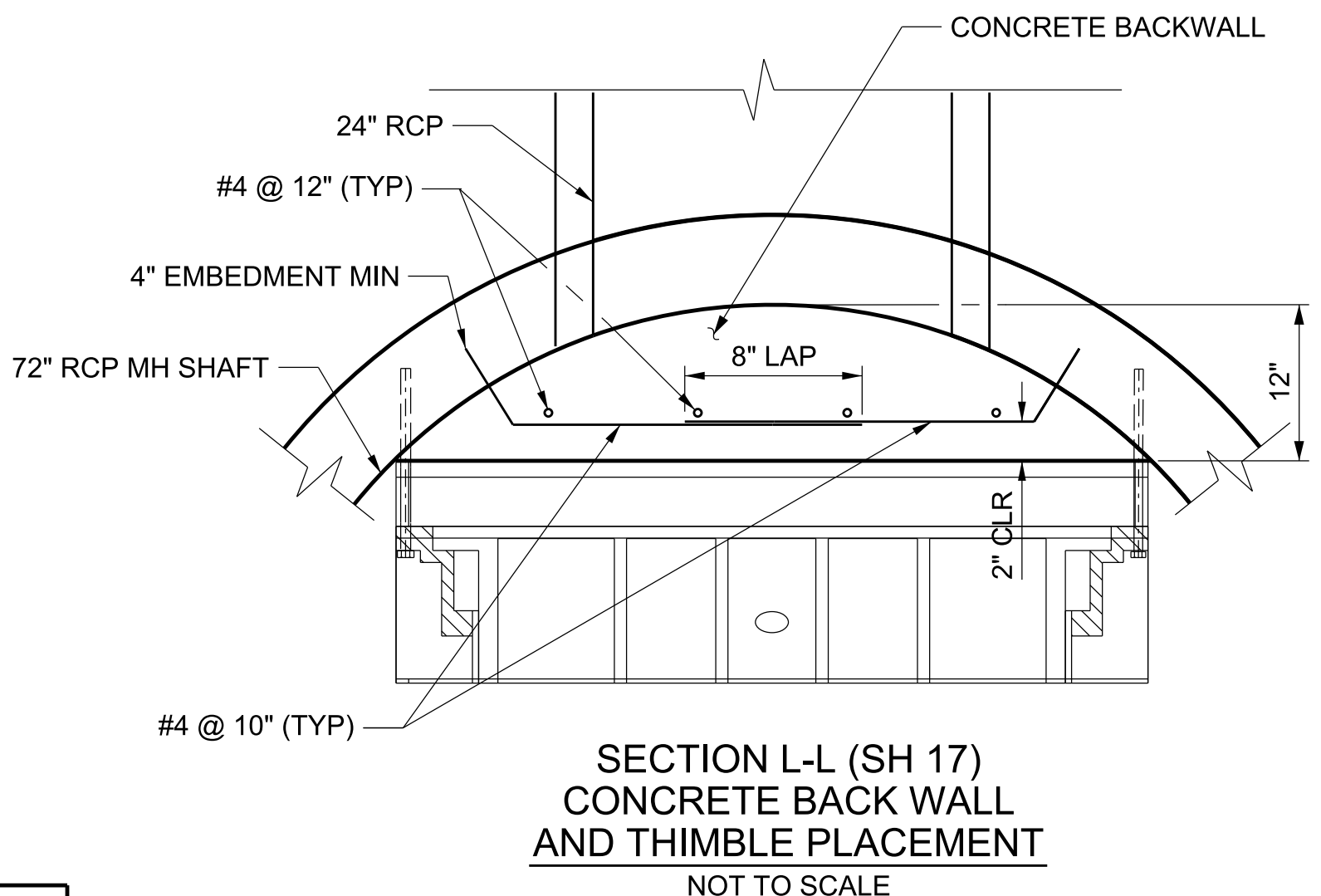
SEE DETAIL M HEREON FOR 72" RCP
TRASH/SLIDE GATE MH COVER DETAILS,
AND SEE DETAIL N HEREON FOR 72" RCP
INFLUENT MONITORING MH AND
72" RCP BYPASS MH COVER DETAILS



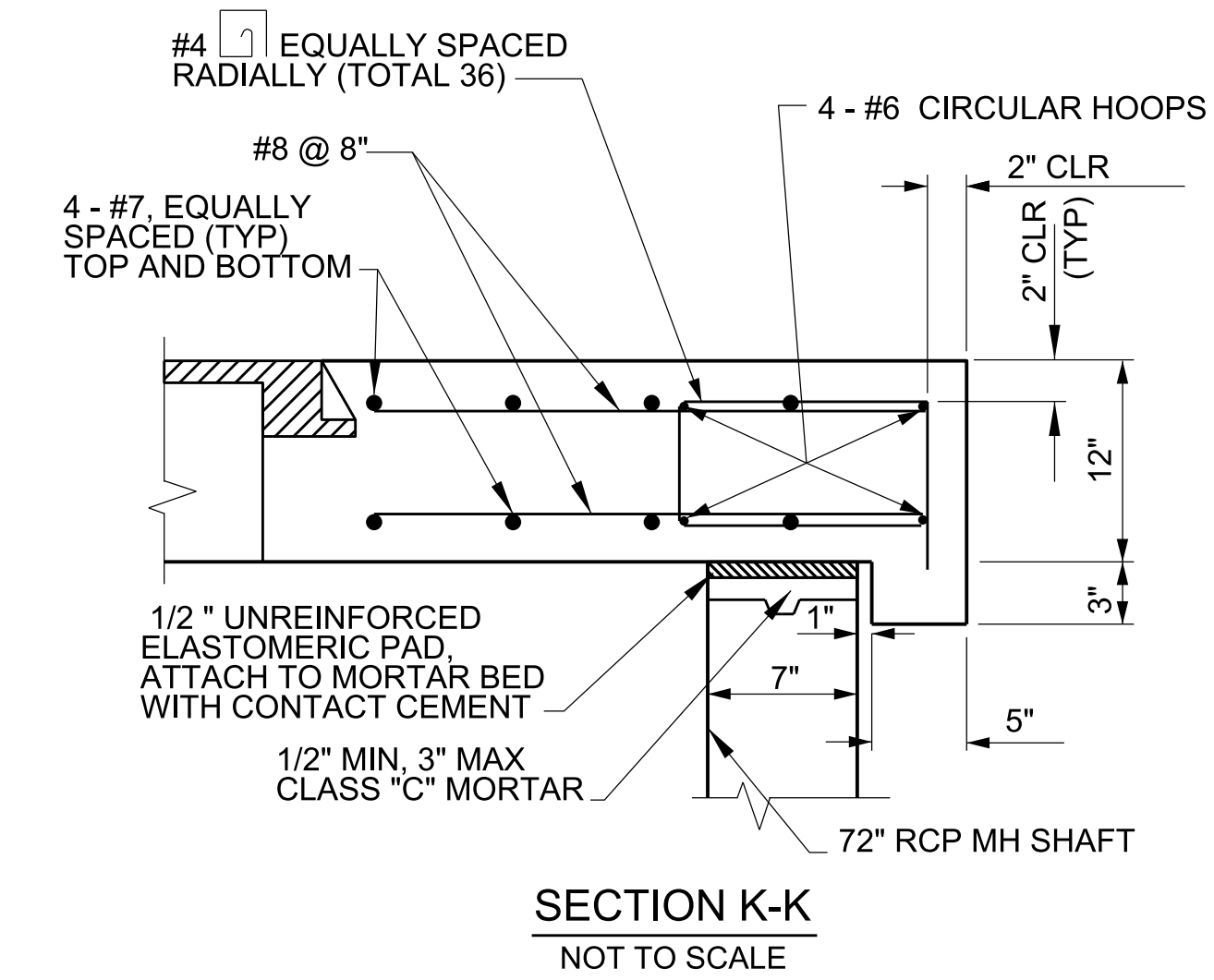
PLAN VIEW FOR 72" RCP BYPASS MH,
72" RCP INFLUENT MONITORING MH,
AND 72" RCP TRASH/SLIDE GATE MH
SCALE 1/2"=1'
SEE SH 4, 6, 8, AND 10 FOR LOCATION



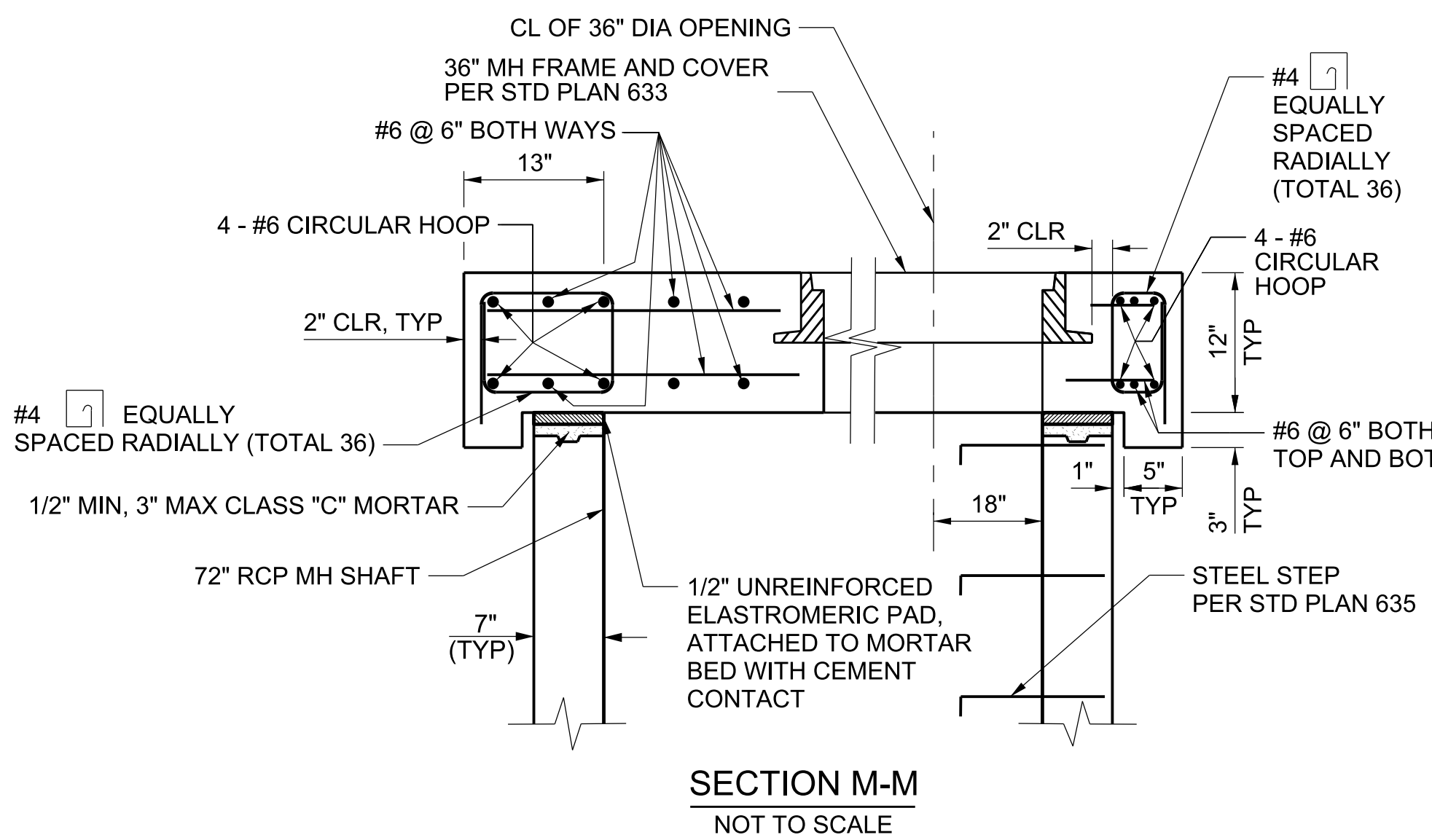
THE ENGINEER SHALL DETERMINE THE SIDE OF THE MANHOLE
WHERE THE 36" DIAMETER OPENING IS TO BE LOCATED.



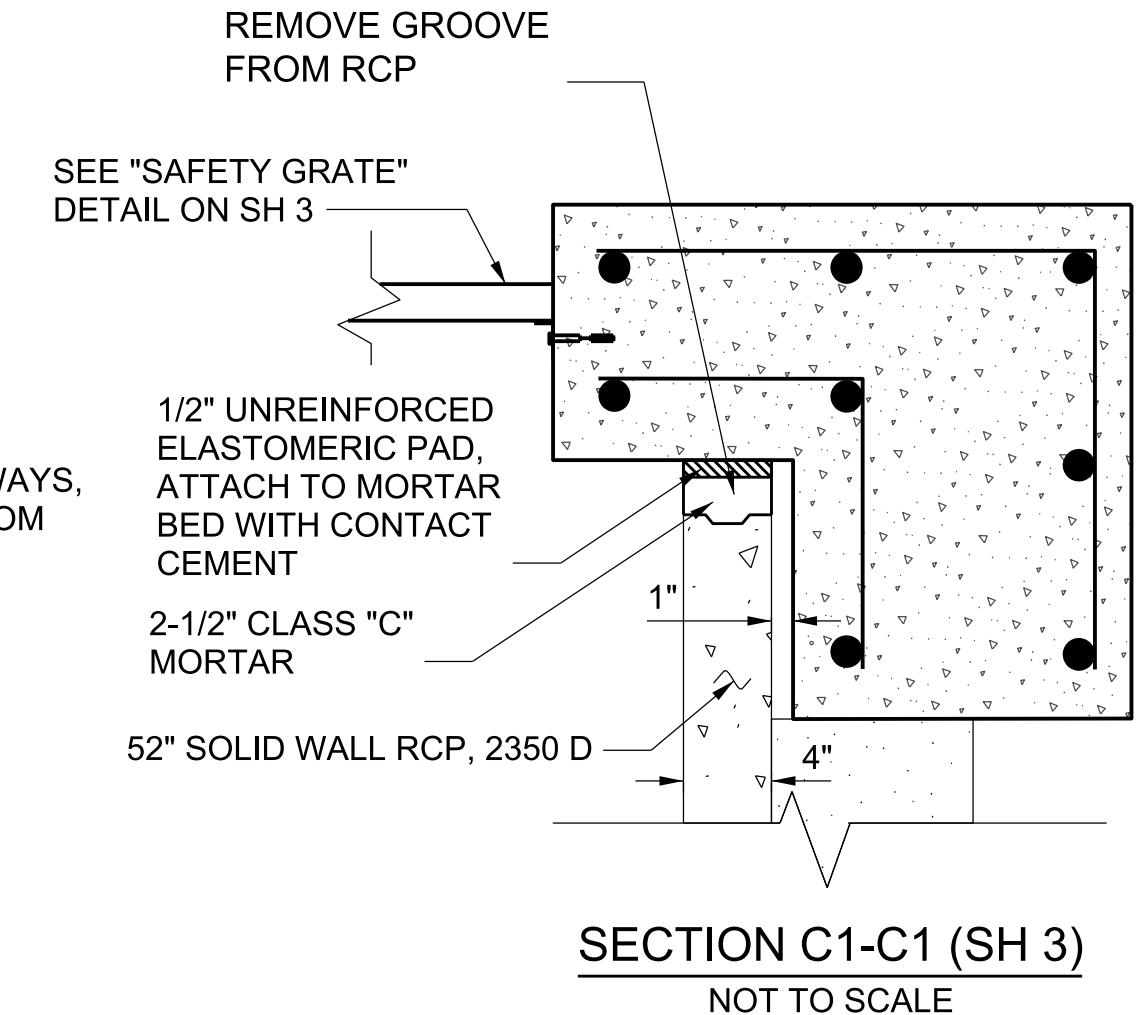
SECTION L-L (SH 17)
CONCRETE BACK WALL
AND THIMBLE PLACEMENT
NOT TO SCALE



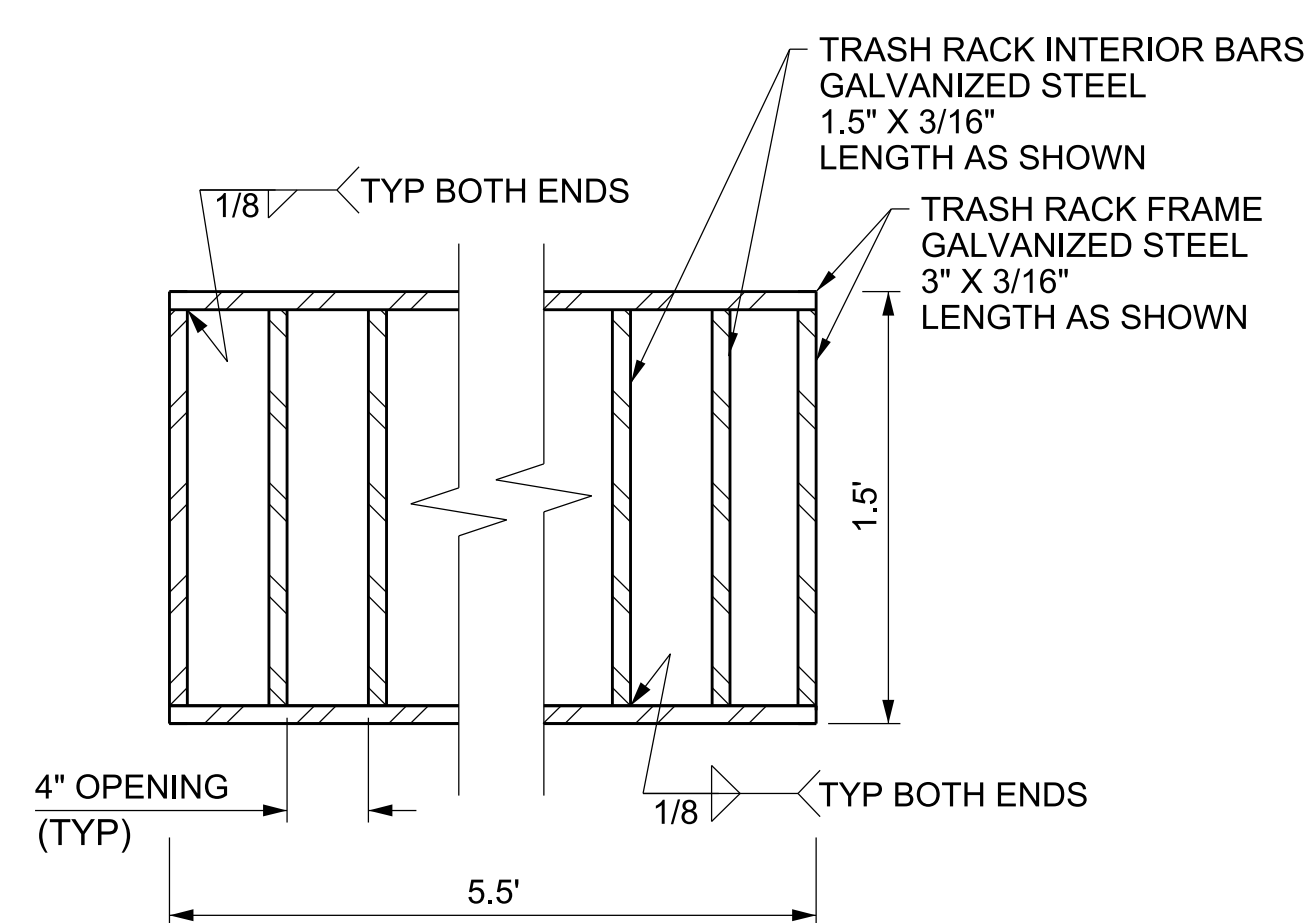
SECTION K-K
NOT TO SCALE



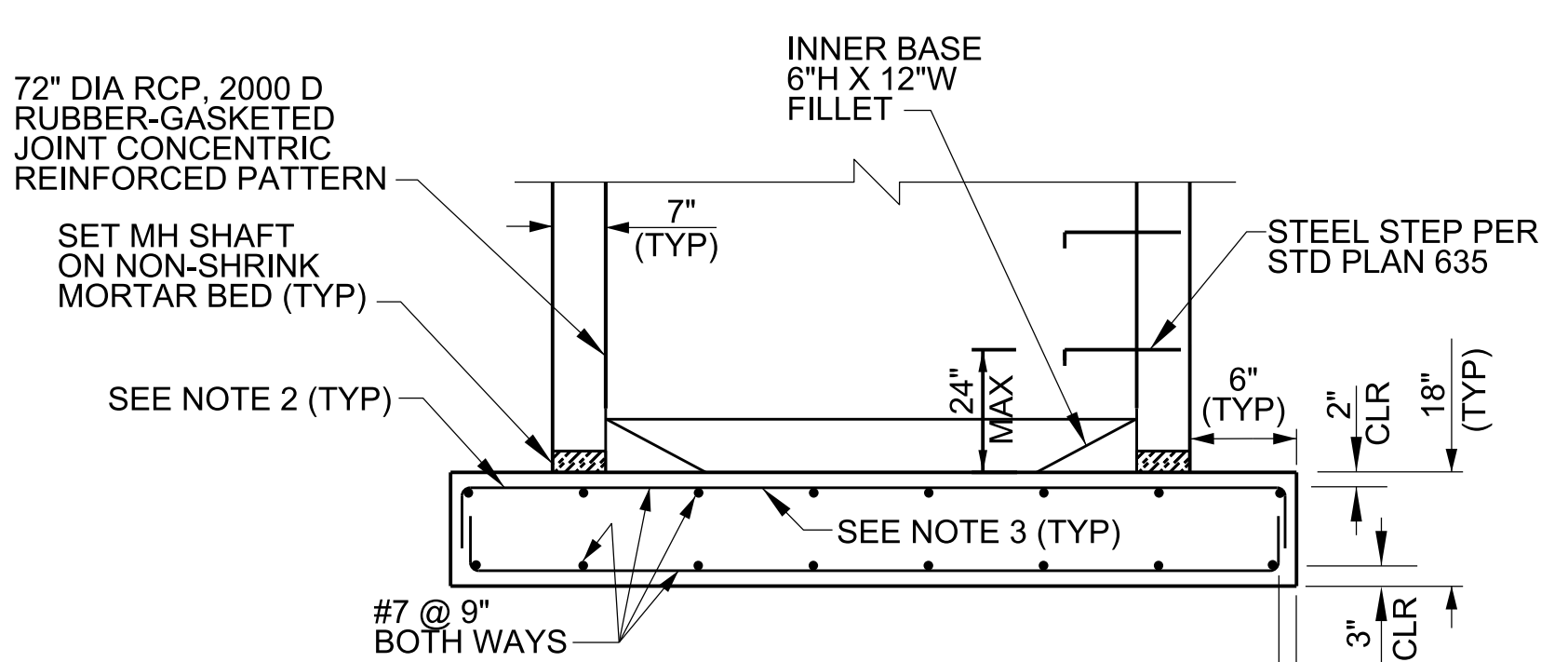
SECTION M-M
NOT TO SCALE



SECTION C1-C1 (SH 3)
NOT TO SCALE

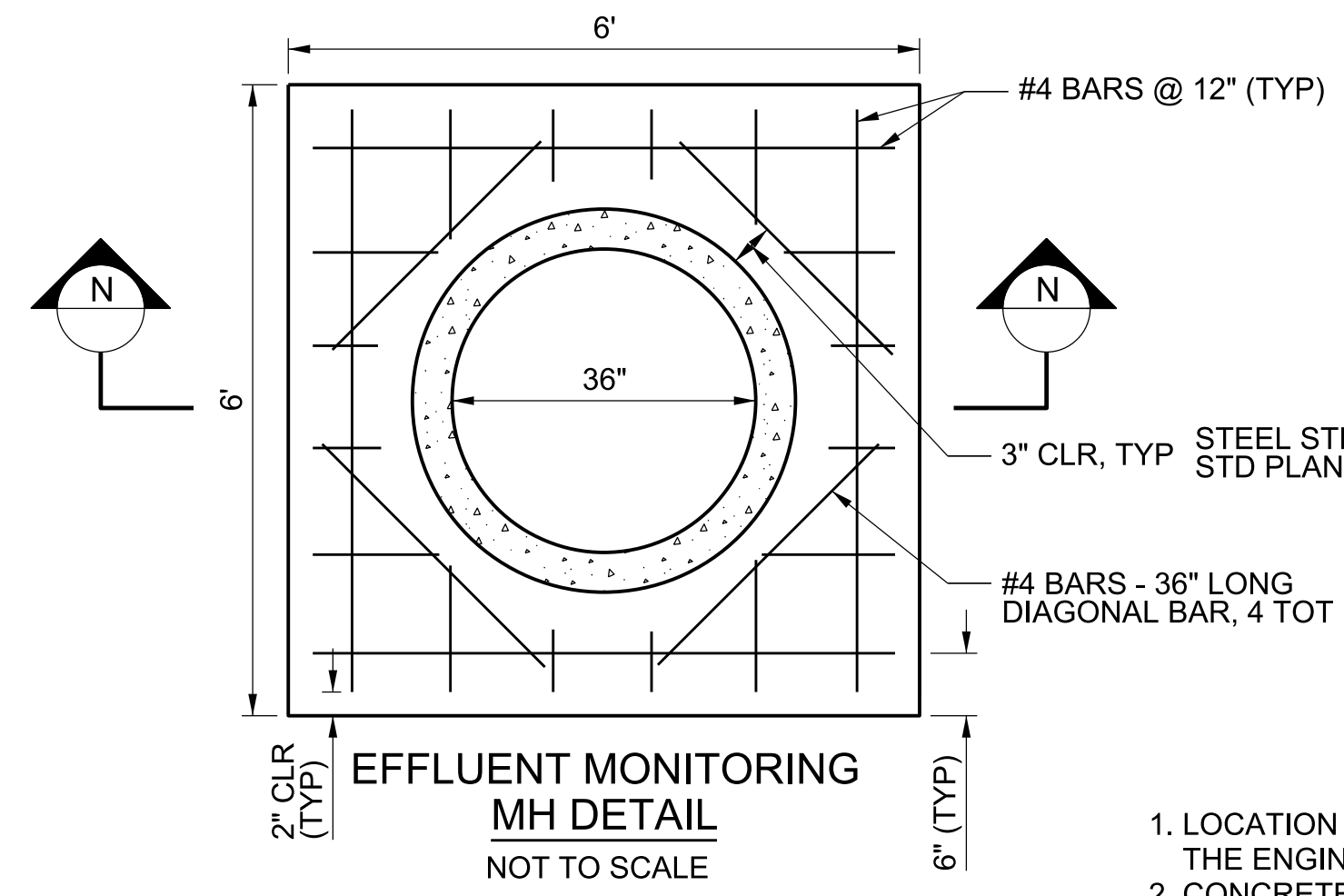


TRASH RACK ASSEMBLY DETAIL (SH 17)
NOT TO SCALE

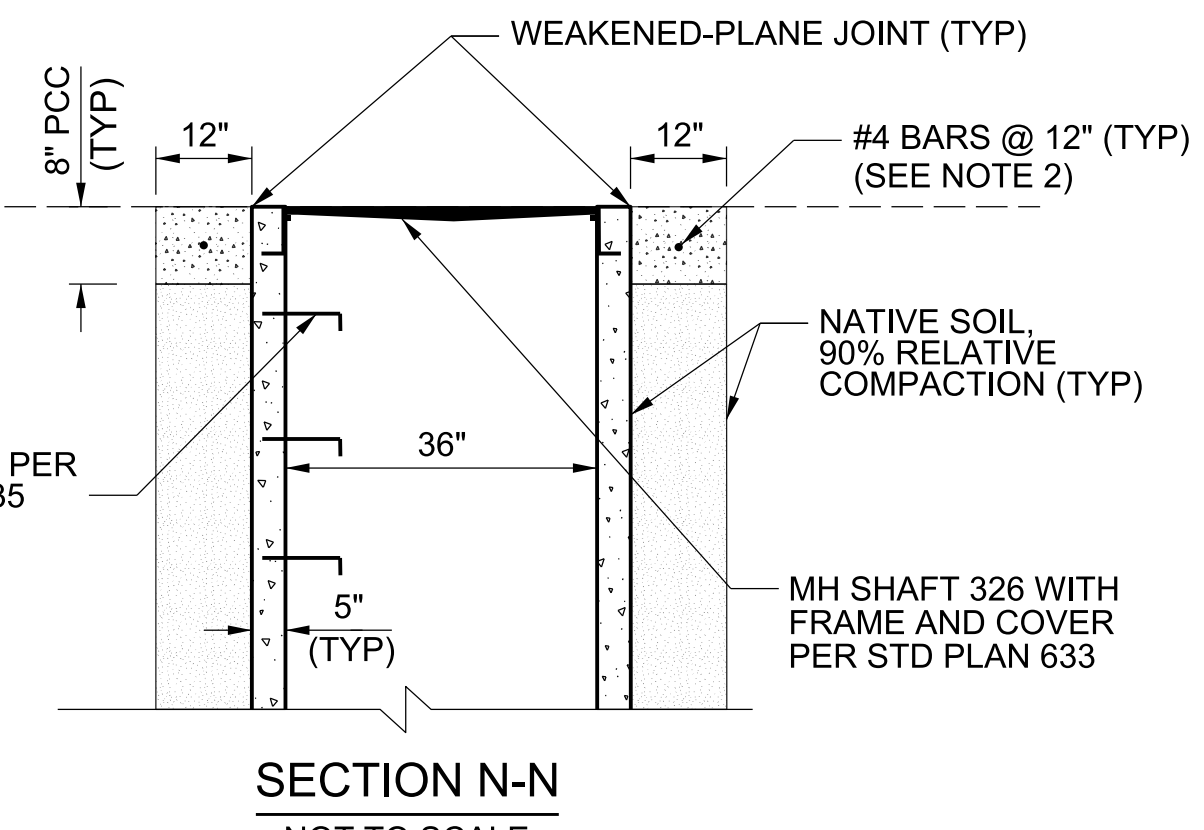


DETAIL L (SH 17)
MANHOLE FOOTING
NOT TO SCALE

1. APPLICABLE FOR ALL MANHOLES THAT INCLUDE 72" RCP VERTICAL CASING.
2. MODIFY REBAR LAYOUT TO ACCOMMODATE PIPE CONNECTIONS.
3. MODIFY REBAR LAYOUT TO ACCOMMODATE BOX-OUTS FOR TRASH/SLIDE GATE MANHOLES.



EFFLUENT MONITORING
MH DETAIL
NOT TO SCALE



SECTION N-N
NOT TO SCALE

1. LOCATION OF THE STEEL STEP PER STD PLAN 635 SHALL BE DETERMINED BY THE ENGINEER.
2. CONCRETE CAP IS ONLY APPLICABLE FOR THE LOCATION SHOWN ON SHEET 6.

CAD PROJECT FILE NAME: EAST LA MEDIANS.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: S. LU

DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 STRUCTURAL DETAILS AND SECTIONS
 PROJECT ID NO. WMU0000010

Chris Rave 07/10/18
 PROJECT ENGINEER DATE

LACFCD INDEX NO. 116-D27 SHEET 18 OF 26

Project: Montebello LMD Project Location: Unincorporated East Los Angeles PCA: F2181510		Monitoring Well Installed <input checked="" type="checkbox"/> No		
Boring No.: DW-1 Date(s) Drilled: 5/22/17 Logged by: JUU, YG		Boring Diameter: 8 1/8 in.	Ground Elevation: ~184'	Page 1 of 4
Boring Location: Intersection of Montebello Pkwy and Leonard Pl. Latitude & Longitude: 34.01971, -118.14447		Drilled by: Gregg Drilling Equipment: CME-95	Hammer Weight: 140 lbs. Drop Height: 30 in.	Total Depth: 101' Depth to Invert: 100 ft. Depth to Groundwater: N/A Depth to Bedrock: N/A
FIELD DATA USCS: ML DESCRIPTION: 0-5 SILT, medium stiff, reddish brown, slightly moist; no plasticity; dry turf grass at the surface. 5-10 very stiff; traces of medium to coarse grained SAND. 10-15 hard, dry. 15-20 some medium to coarse grained SAND. 20-25 SILTY SAND with GRAVEL; very dense, reddish brown, dry; medium to coarse grained SAND; some fine to coarse GRAVEL. 25-30 POORLY-GRADED SAND with GRAVEL; very dense, orange brown, moist; fine to medium grained SAND; some fine to coarse GRAVEL; fragments of cobbles (-3" to 4" diameter); moderate cementation. 30-35 WELL-GRADED SAND with GRAVEL; very dense, orange brown, moist; fine to coarse GRAVEL; fragments of cobbles (-3" to 4" diameter); moderate cementation.		LABORATORY TESTING In-situ Sieve % Passing No. 4 200 LL PI Type of Tests		
LEGEND: California Ring (2.5 in. OD) Sample, SPT (2 in. OD) Sample, Depth to Invert, District Contact, Conditions or Uncertain Contact, Expansion Index, Moisture Content, Maximum Density, Consistency, Permeability, Direct Shear, Shear Analysis, Expansion Index, Sand Equivalence, Hygroscopic, Triaxial		Types of Tests: CO - Consolidation, MD - Maximum Density, CR - Consistency, PF - Permeability, DS - Direct Shear, SA - Shear Analysis, EI - Expansion Index, SE - Sand Equivalence, HY - Hygroscopic, TR - Triaxial		

Project: Montebello LMD Project Location: Unincorporated East Los Angeles PCA: F2181510		Monitoring Well Installed <input checked="" type="checkbox"/> No		
Boring No.: DW-1 Date(s) Drilled: 5/22/17 Logged by: JUU, YG		Boring Diameter: 8 1/8 in.	Ground Elevation: ~184'	Page 2 of 4
Boring Location: Intersection of Montebello Pkwy and Leonard Pl. Latitude & Longitude: 34.01971, -118.14447		Drilled by: Gregg Drilling Equipment: CME-95	Hammer Weight: 140 lbs. Drop Height: 30 in.	Total Depth: 101' Depth to Invert: 100 ft. Depth to Groundwater: N/A Depth to Bedrock: N/A
FIELD DATA USCS: SW DESCRIPTION: 30-35 very dense, grey with brown and orange, dry. 35-40 SILTY SAND with GRAVEL; very dense, tan with grey, dry; fine to coarse grained SAND; some angular fine to coarse GRAVEL; moderate cementation. 40-45 SILT, reddish brown, moist; no plasticity. 45-50 POORLY-GRADED SAND; very dense, reddish brown, moist; fine to medium grained SAND; traces of fine GRAVEL. 50-55 SILTY SAND; very dense, reddish brown, moist; fine to medium grained SAND. 55-60 WELL-GRADED SAND with GRAVEL; very dense, reddish brown, moist; fine to coarse GRAVEL; little fine to coarse GRAVEL.		LABORATORY TESTING In-situ Sieve % Passing No. 4 200 LL PI Type of Tests		
LEGEND: California Ring (2.5 in. OD) Sample, SPT (2 in. OD) Sample, Depth to Invert, District Contact, Conditions or Uncertain Contact, Expansion Index, Moisture Content, Maximum Density, Consistency, Permeability, Direct Shear, Shear Analysis, Expansion Index, Sand Equivalence, Hygroscopic, Triaxial		Types of Tests: CO - Consolidation, MD - Maximum Density, CR - Consistency, PF - Permeability, DS - Direct Shear, SA - Shear Analysis, EI - Expansion Index, SE - Sand Equivalence, HY - Hygroscopic, TR - Triaxial		

Project: Montebello LMD Project Location: Unincorporated East Los Angeles PCA: F2181510		Monitoring Well Installed <input checked="" type="checkbox"/> No		
Boring No.: DW-1 Date(s) Drilled: 5/22/17 Logged by: JUU, YG		Boring Diameter: 8 1/8 in.	Ground Elevation: ~184'	Page 3 of 4
Boring Location: Intersection of Montebello Pkwy and Leonard Pl. Latitude & Longitude: 34.01971, -118.14447		Drilled by: Gregg Drilling Equipment: CME-95	Hammer Weight: 140 lbs. Drop Height: 30 in.	Total Depth: 101' Depth to Invert: 100 ft. Depth to Groundwater: N/A Depth to Bedrock: N/A
FIELD DATA USCS: ML DESCRIPTION: 60-65 orange brown; fine to medium grained SAND; some fine to coarse GRAVEL. 65-70 SANDY SILT with GRAVEL; hard, orange brown, moist; fine to coarse grained SAND; little fine to coarse GRAVEL; no plasticity. 70-75 WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; some fine to coarse GRAVEL. 75-80 SILTY SAND; very dense, reddish brown, moist; fine to medium grained SAND. 80-85 WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; some fine to coarse GRAVEL. 85-90 SANDY SILT; hard, orange brown, moist; fine grained SAND; traces of fine to coarse GRAVEL. 90-95 WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; little fine to coarse GRAVEL.		LABORATORY TESTING In-situ Sieve % Passing No. 4 200 LL PI Type of Tests		
LEGEND: California Ring (2.5 in. OD) Sample, SPT (2 in. OD) Sample, Depth to Invert, District Contact, Conditions or Uncertain Contact, Expansion Index, Moisture Content, Maximum Density, Consistency, Permeability, Direct Shear, Shear Analysis, Expansion Index, Sand Equivalence, Hygroscopic, Triaxial		Types of Tests: CO - Consolidation, MD - Maximum Density, CR - Consistency, PF - Permeability, DS - Direct Shear, SA - Shear Analysis, EI - Expansion Index, SE - Sand Equivalence, HY - Hygroscopic, TR - Triaxial		

Project: Montebello LMD Project Location: Unincorporated East Los Angeles PCA: F2181510		Monitoring Well Installed <input checked="" type="checkbox"/> No		
Boring No.: DW-1 Date(s) Drilled: 5/22/17 Logged by: JUU, YG		Boring Diameter: 8 1/8 in.	Ground Elevation: ~184'	Page 4 of 4
Boring Location: Intersection of Montebello Pkwy and Leonard Pl. Latitude & Longitude: 34.01971, -118.14447		Drilled by: Gregg Drilling Equipment: CME-95	Hammer Weight: 140 lbs. Drop Height: 30 in.	Total Depth: 101' Depth to Invert: 100 ft. Depth to Groundwater: N/A Depth to Bedrock: N/A
FIELD DATA USCS: ML DESCRIPTION: 90-95 SANDY SILT; hard, orange brown, moist; fine to medium grained SAND; no plasticity. 95-100 POORLY-GRADED SAND; very dense, tan, moist; fine to medium grained SAND; traces of fine to coarse GRAVEL. 100-105 WELL-GRADED SAND with GRAVEL; very dense, tan, dry; fine to coarse grained SAND; some fine to coarse GRAVEL. 105-110 End of boring at 101'; boring terminated at planned depth; no groundwater was encountered. 110-115 115-120		LABORATORY TESTING In-situ Sieve % Passing No. 4 200 LL PI Type of Tests		
LEGEND: California Ring (2.5 in. OD) Sample, SPT (2 in. OD) Sample, Depth to Invert, District Contact, Conditions or Uncertain Contact, Expansion Index, Moisture Content, Maximum Density, Consistency, Permeability, Direct Shear, Shear Analysis, Expansion Index, Sand Equivalence, Hygroscopic, Triaxial		Types of Tests: CO - Consolidation, MD - Maximum Density, CR - Consistency, PF - Permeability, DS - Direct Shear, SA - Shear Analysis, EI - Expansion Index, SE - Sand Equivalence, HY - Hygroscopic, TR - Triaxial		

Project: Montebello LMD Project Location: Unincorporated East Los Angeles PCA: F2181510		Monitoring Well Installed <input checked="" type="checkbox"/> No		
Boring No.: DW-2 Date(s) Drilled: 5/23/17 Logged by: JUU, YG		Boring Diameter: 8 1/8 in.	Ground Elevation: ~182'	Page 1 of 4
Boring Location: Intersection of Montebello Pkwy and Leonard Pl. Latitude & Longitude: 34.01921, -118.14812		Drilled by: Gregg Drilling Equipment: CME-95	Hammer Weight: 140 lbs. Drop Height: 30 in.	Total Depth: 101' Depth to Invert: 100 ft. Depth to Groundwater: N/A Depth to Bedrock: N/A
FIELD DATA USCS: ML DESCRIPTION: 0-5 SILT; soft, brown, dry; no plasticity; dry turf grass at the surface. 5-10 reddish brown. 10-15 hard, slightly moist; traces of fine to medium grained SAND. 15-20 POORLY-GRADED SAND; very dense, light brown, dry; fine to medium grained SAND; traces of fine GRAVEL. 20-25 SILTY SAND; very dense, reddish brown and tan, dry; fine to medium grained SAND. 25-30 SANDY SILT; hard, reddish brown and tan, dry; fine grained SAND; traces of fine GRAVEL; no plasticity. 30-35 WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; little fine to coarse GRAVEL; intervals of GRAVEL between 25' to 55'.		LABORATORY TESTING In-situ Sieve % Passing No. 4 200 LL PI Type of Tests		
LEGEND: California Ring (2.5 in. OD) Sample, SPT (2 in. OD) Sample, Depth to Invert, District Contact, Conditions or Uncertain Contact, Expansion Index, Moisture Content, Maximum Density, Consistency, Permeability, Direct Shear, Shear Analysis, Expansion Index, Sand Equivalence, Hygroscopic, Triaxial		Types of Tests: CO - Consolidation, MD - Maximum Density, CR - Consistency, PF - Permeability, DS - Direct Shear, SA - Shear Analysis, EI - Expansion Index, SE - Sand Equivalence, HY - Hygroscopic, TR - Triaxial		


Project: Montebello LMD Project Location: Unincorporated East Los Angeles PCA: F2181510		Monitoring Well Installed <input checked="" type="checkbox"/> No		
Boring No.: DW-2 Date(s) Drilled: 5/23/17 Logged by: JUU, YG		Boring Diameter: 8 1/8 in.	Ground Elevation: ~182'	Page 2 of 4
Boring Location: Intersection of Montebello Pkwy and Leonard Pl. Latitude & Longitude: 34.01921, -118.14812		Drilled by: Gregg Drilling Equipment: CME-95	Hammer Weight: 140 lbs. Drop Height: 30 in.	Total Depth: 101' Depth to Invert: 100 ft. Depth to Groundwater: N/A Depth to Bedrock: N/A
FIELD DATA USCS: SW DESCRIPTION: 30-35 very dense, brown and tan, dry; fine to coarse grained SAND; little fine to coarse GRAVEL. 35-40 POORLY-GRADED SAND; dense, reddish brown and tan, dry; fine to coarse grained SAND; traces of fine to coarse GRAVEL. 40-45 SILTY SAND with GRAVEL; dense, reddish brown and tan, slightly moist; fine to coarse grained SAND; some fine to coarse GRAVEL; fragments of cobbles (-3" diameter). 45-50 WELL-GRADED SAND with GRAVEL; very dense, brown and tan, dry; fine to coarse grained SAND; little fine to coarse GRAVEL. 50-55 brown and tan; traces of fine to coarse GRAVEL. 55-60 SANDY SILT; hard, reddish brown and tan, dry; fine to coarse grained SAND; traces of fine to coarse GRAVEL. 60-65 SILTY SAND; very dense, reddish brown, moist; fine to coarse grained SAND.		LABORATORY TESTING In-situ Sieve % Passing No. 4 200 LL PI Type of Tests		
LEGEND: California Ring (2.5 in. OD) Sample, SPT (2 in. OD) Sample, Depth to Invert, District Contact, Conditions or Uncertain Contact, Expansion Index, Moisture Content, Maximum Density, Consistency, Permeability, Direct Shear, Shear Analysis, Expansion Index, Sand Equivalence, Hygroscopic, Triaxial		Types of Tests: CO - Consolidation, MD - Maximum Density, CR - Consistency, PF - Permeability, DS - Direct Shear, SA - Shear Analysis, EI - Expansion Index, SE - Sand Equivalence, HY - Hygroscopic, TR - Triaxial		

Project: Montebello LMD Project Location: Unincorporated East Los Angeles PCA: F2181510		Monitoring Well Installed <input checked="" type="checkbox"/> No		
Boring No.: DW-2 Date(s) Drilled: 5/23/17 Logged by: JUU, YG		Boring Diameter: 8 in.	Ground Elevation: ~182'	Page 3 of 4
Boring Location: Intersection of Montebello Pkwy and Leonard Pl. Latitude & Longitude: 34.01921, -118.14812		Drilled by: Gregg Drilling Equipment: CME-95	Hammer Weight: 140 lbs. Drop Height: 30 in.	Total Depth: 101' Depth to Invert: 100 ft. Depth to Groundwater: N/A Depth to Bedrock: N/A
FIELD DATA USCS: SM DESCRIPTION: 60-65 SILTY SAND; very dense, reddish brown, moist; fine to coarse grained SAND; little fine to coarse GRAVEL. 65-70 WELL-GRADED SAND; very dense, reddish brown and tan, dry; fine to coarse grained SAND. 70-75 SILT; medium stiff, reddish brown, dry; traces of medium to coarse grained SAND; little to no plasticity. 75-80 intervals of GRAVEL between 70' to 80'. 80-85 SILTY SAND; dense, reddish brown, moist; medium to coarse grained SAND; traces of fine to coarse GRAVEL; moderate cementation. 85-90 WELL-GRADED SAND with GRAVEL; very dense, reddish brown, dry; fine to coarse grained SAND; some fine to coarse GRAVEL; moderate cementation. 90-95 POORLY-GRADED SAND; very dense, reddish brown, moist; fine to medium grained SAND; moderate cementation. 95-100 SANDY SILT; hard, reddish brown, dry; fine grained SAND; no plasticity. 100-105 End of boring at 101'; boring terminated at planned depth; no groundwater was encountered. 110-115 115-120		LABORATORY TESTING In-situ Sieve % Passing No. 4 200 LL PI Type of Tests		
LEGEND: California Ring (2.5 in. OD) Sample, SPT (2 in. OD) Sample, Depth to Invert, District Contact, Conditions or Uncertain Contact, Expansion Index, Moisture Content, Maximum Density, Consistency, Permeability, Direct Shear, Shear Analysis, Expansion Index, Sand Equivalence, Hygroscopic, Triaxial		Types of Tests: CO - Consolidation, MD - Maximum Density, CR - Consistency, PF - Permeability, DS - Direct Shear, SA - Shear Analysis, EI - Expansion Index, SE - Sand Equivalence, HY - Hygroscopic, TR - Triaxial		

Project: Montebello LMD Project Location: Unincorporated East Los Angeles PCA: F2181510		Monitoring Well Installed <input checked="" type="checkbox"/> No		
Boring No.: DW-2 Date(s) Drilled: 5/23/17 Logged by: JUU, YG		Boring Diameter: 8 1/8 in.	Ground Elevation: ~182'	Page 4 of 4
Boring Location: Intersection of Montebello Pkwy and Leonard Pl. Latitude & Longitude: 34.01921, -118.14812		Drilled by: Gregg Drilling Equipment: CME-95	Hammer Weight: 140 lbs. Drop Height: 30 in.	Total Depth: 101' Depth to Invert: 100 ft. Depth to Groundwater: N/A Depth to Bedrock: N/A
FIELD DATA USCS: ML DESCRIPTION: 90-95 SILT; soft, reddish brown, moist; low plasticity. 95-100 POORLY-GRADED SAND; very dense, brown and tan, dry; fine to medium grained SAND. 100-105 SANDY SILT; hard, reddish brown, dry; fine grained SAND; no plasticity. 105-110 End of boring at 101'; boring terminated at planned depth; no groundwater was encountered. 110-115 115-120		LABORATORY TESTING In-situ Sieve % Passing No. 4 200 LL PI Type of Tests		
LEGEND: California Ring (2.5 in. OD) Sample, SPT (2 in. OD) Sample, Depth to Invert, District Contact, Conditions or Uncertain Contact, Expansion Index, Moisture Content, Maximum Density, Consistency, Permeability, Direct Shear, Shear Analysis, Expansion Index, Sand Equivalence, Hygroscopic, Triaxial		Types of Tests: CO - Consolidation, MD - Maximum Density, CR - Consistency, PF - Permeability, DS - Direct Shear, SA - Shear Analysis, EI - Expansion Index, SE - Sand Equivalence, HY - Hygroscopic, TR - Triaxial		

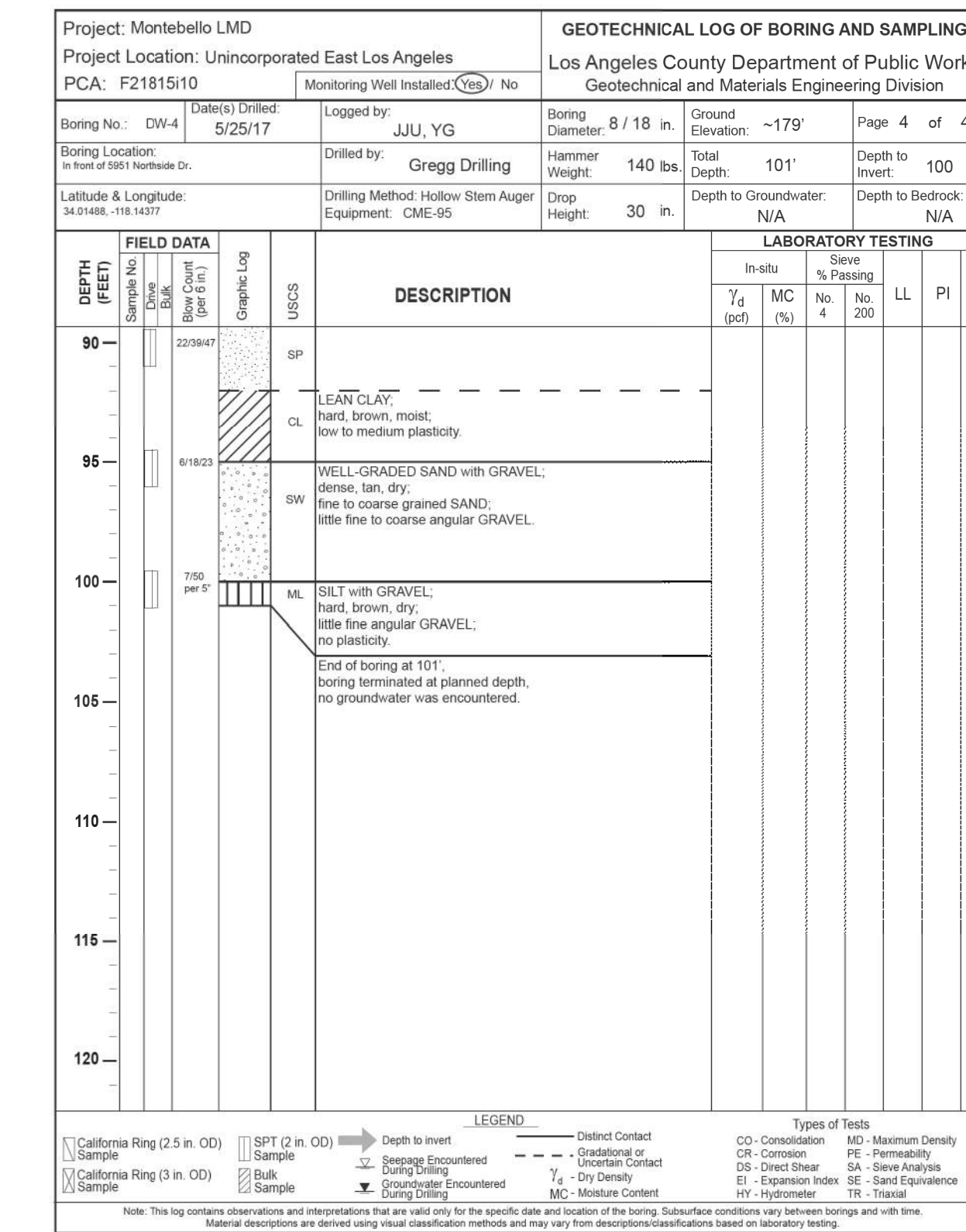
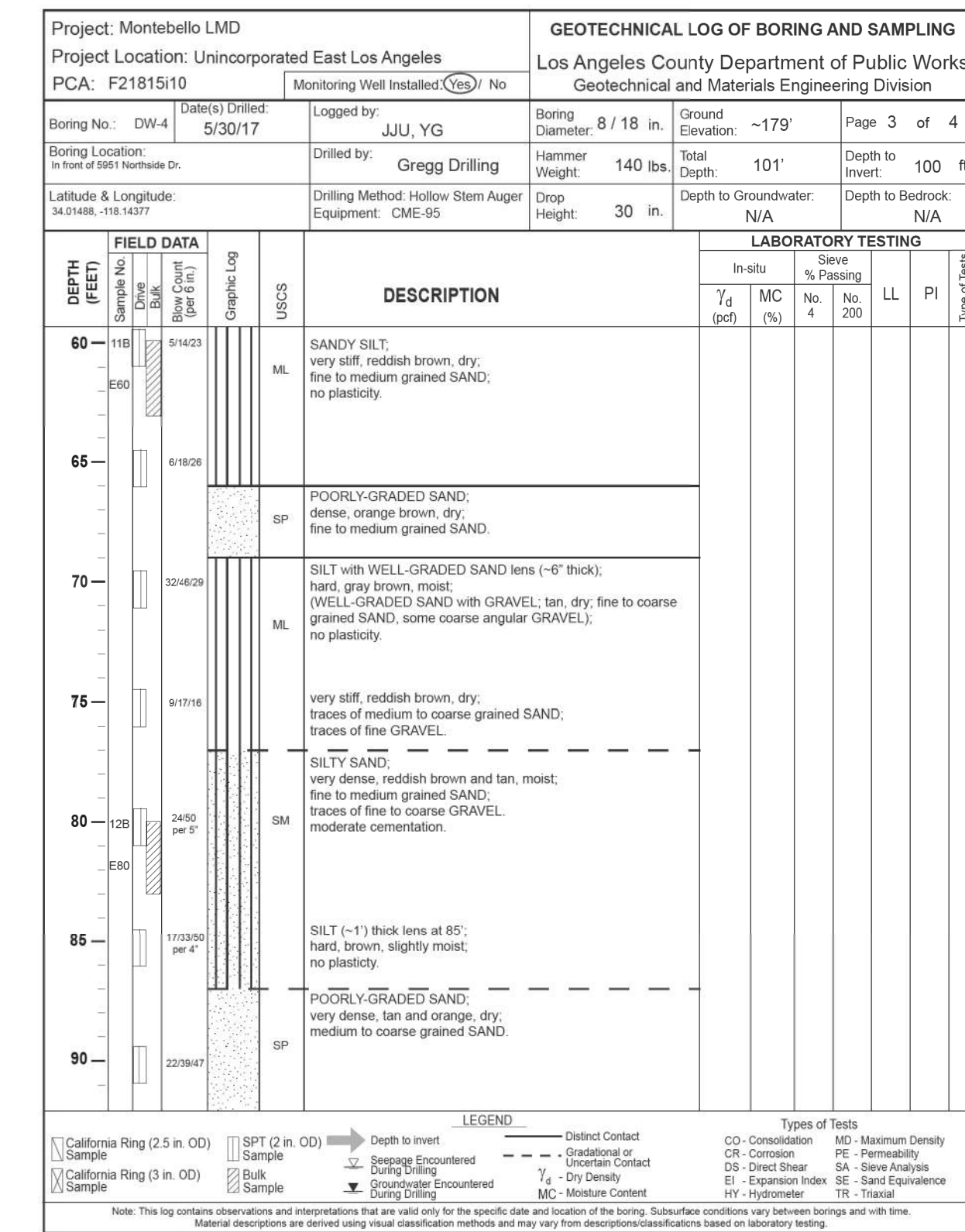
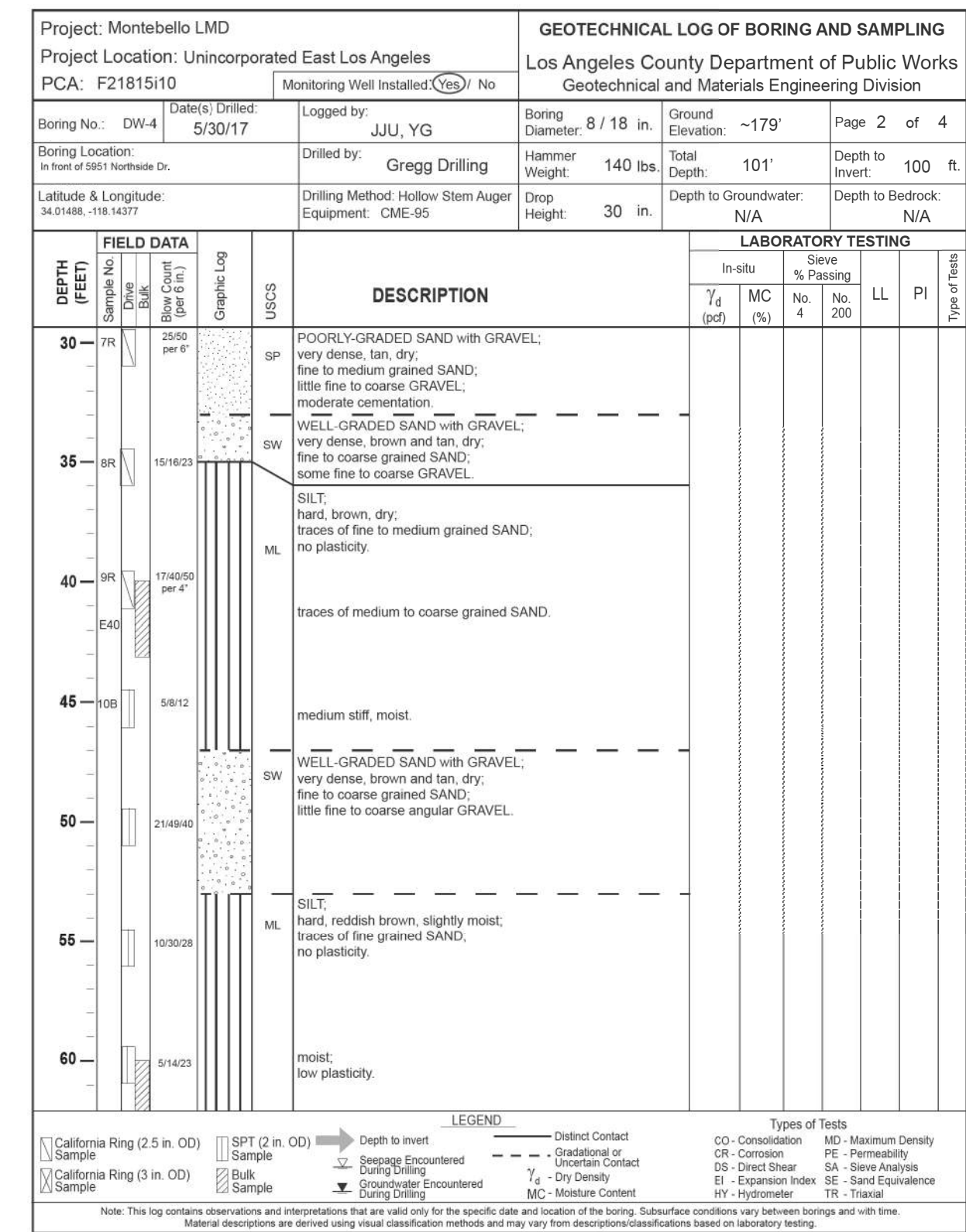
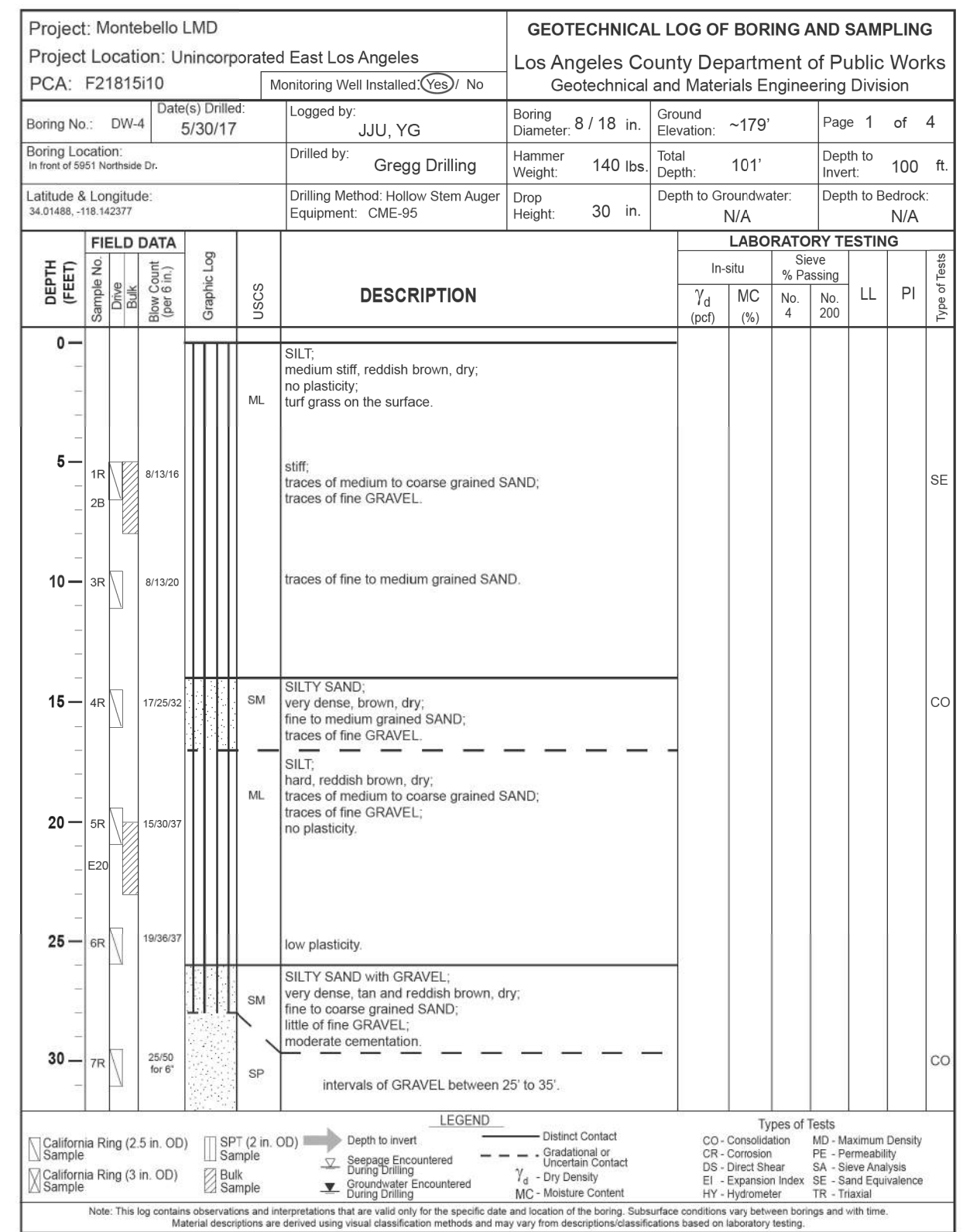
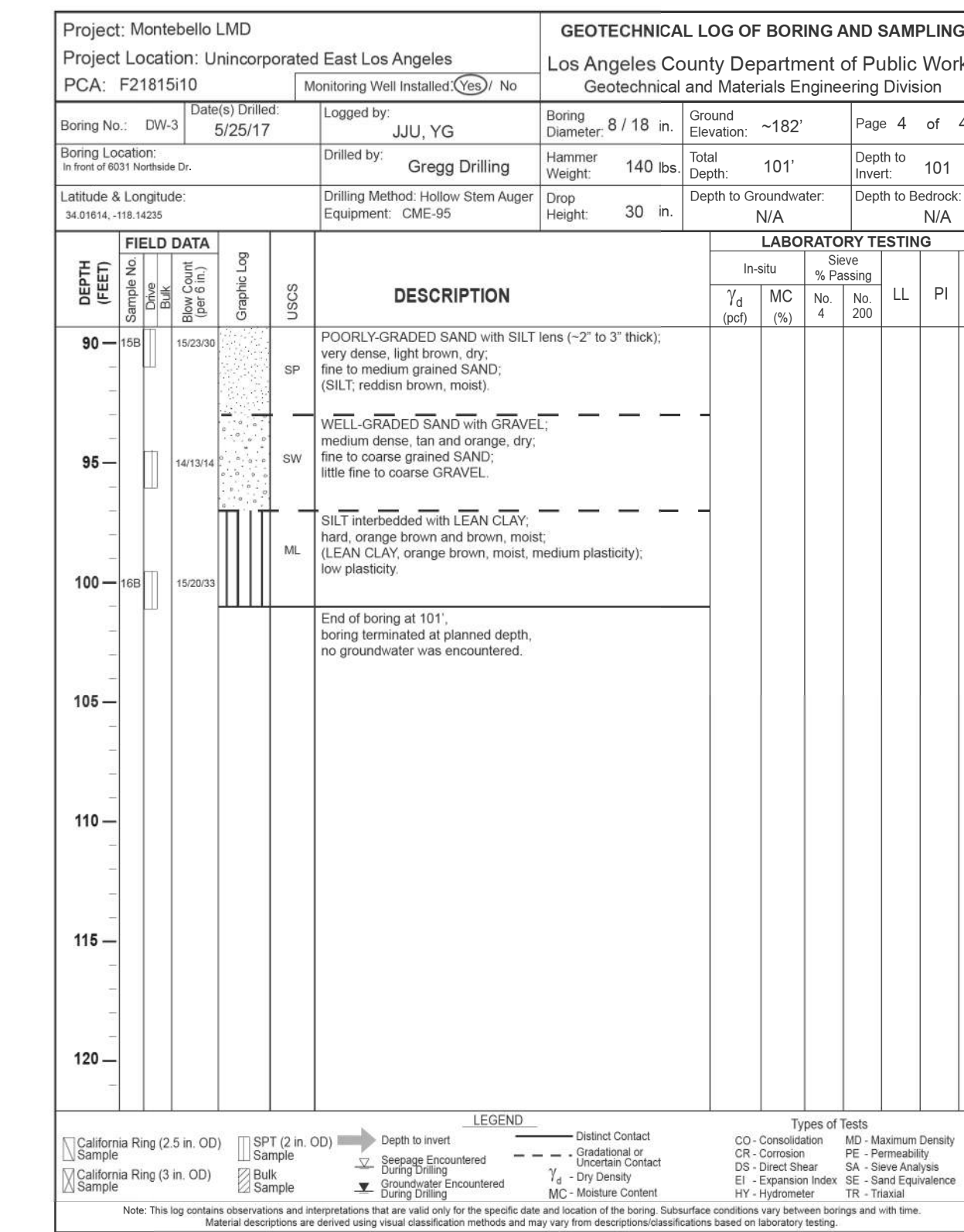
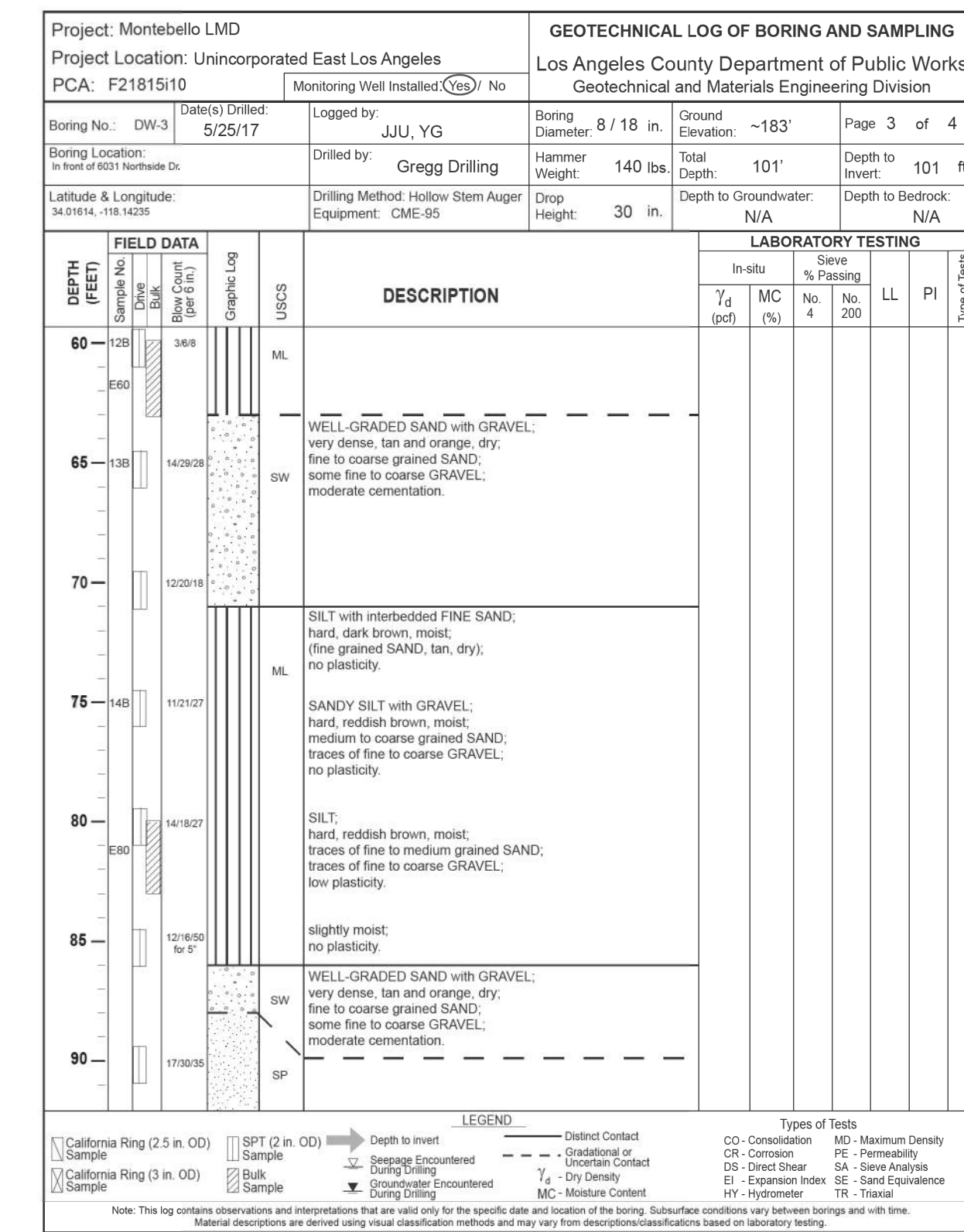
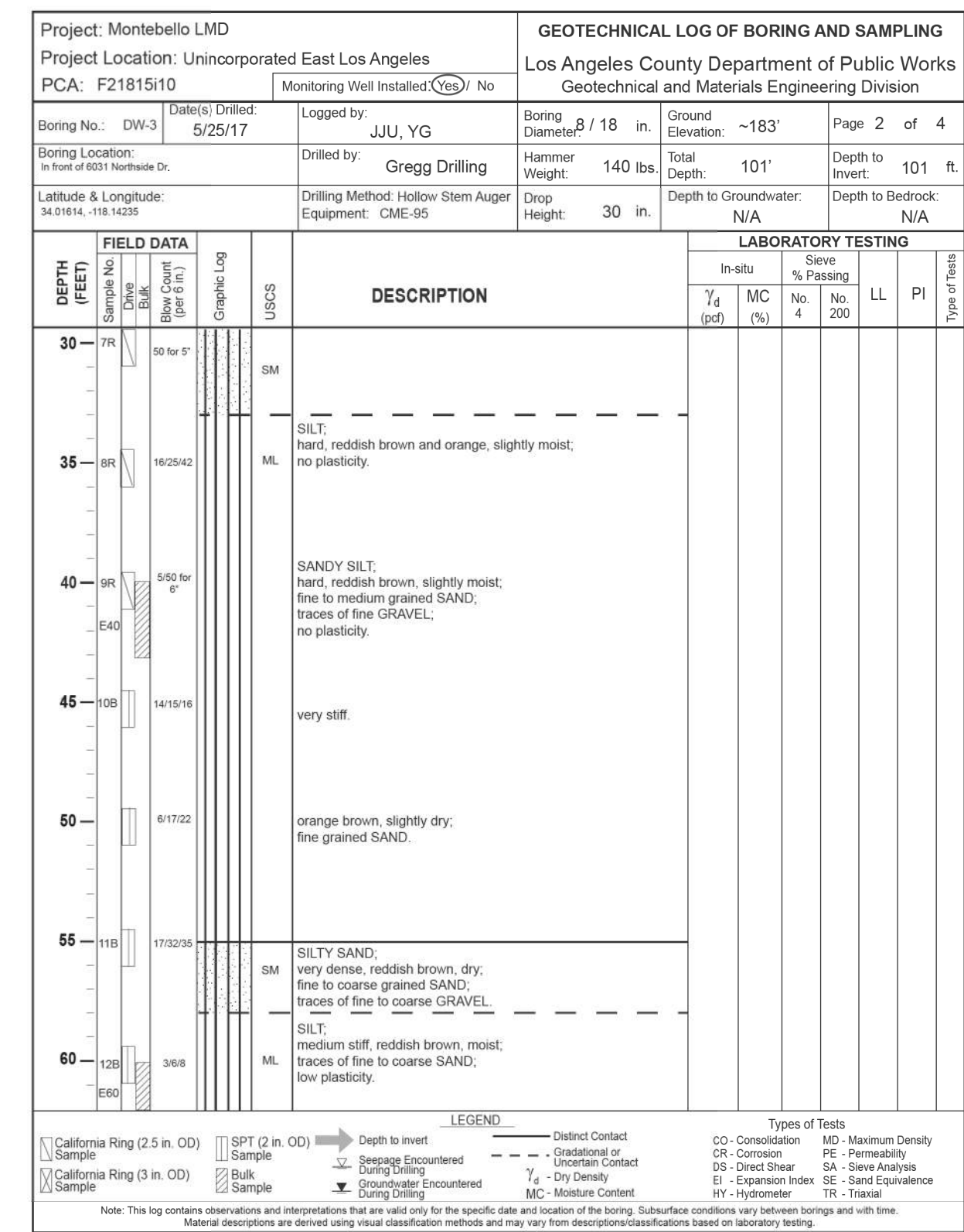
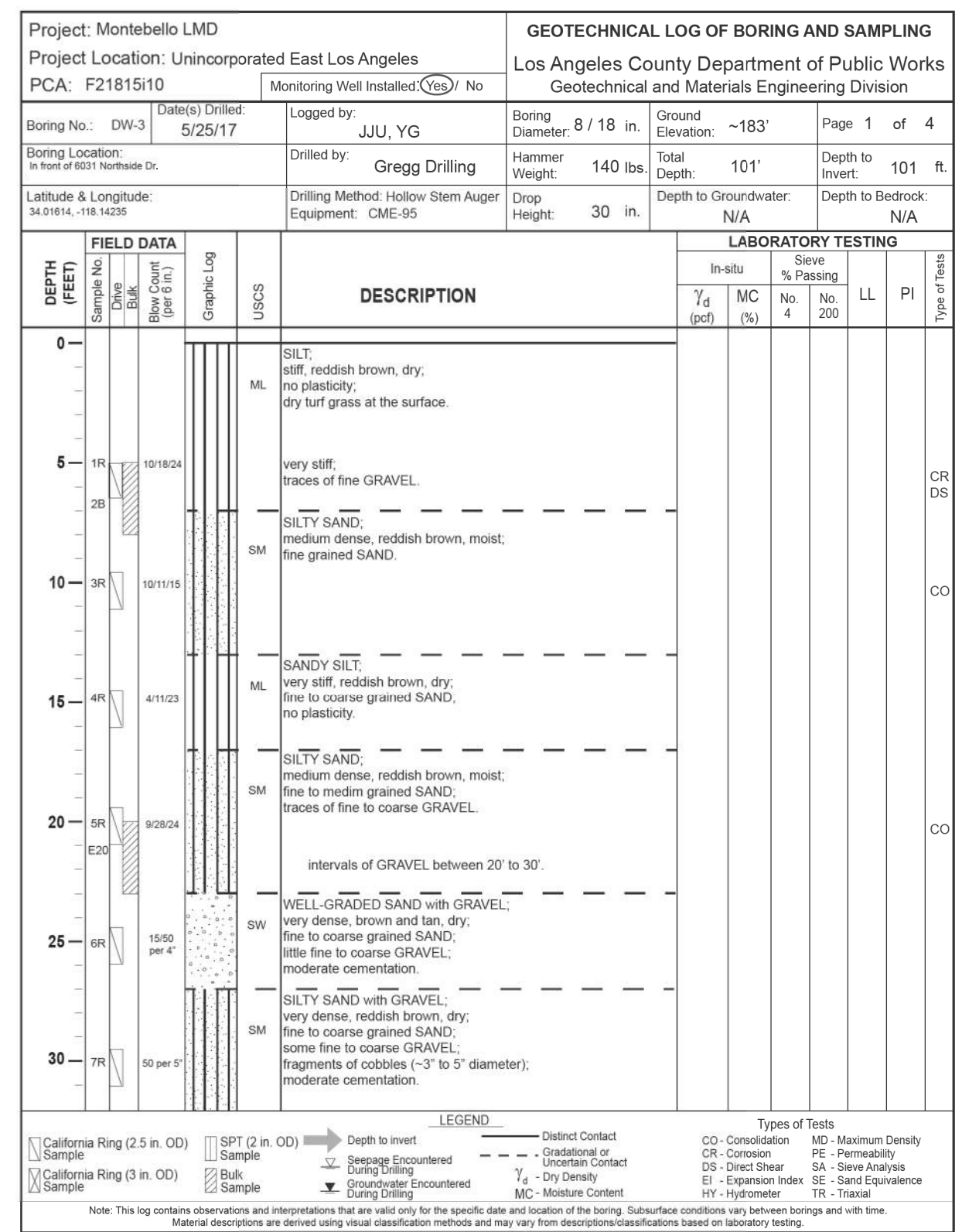
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DESIGNER: C. RAVE
DRAFTER: C. RAVE

DATE	MK	DESCRIPTION
		REVISIONS



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
LOG OF BORINGS
PROJECT ID NO. WMU000010

PROJECT ENGINEER	DATE: 03/27/18	LACFD INDEX NO. 116-D27	SHEET 19 OF 26
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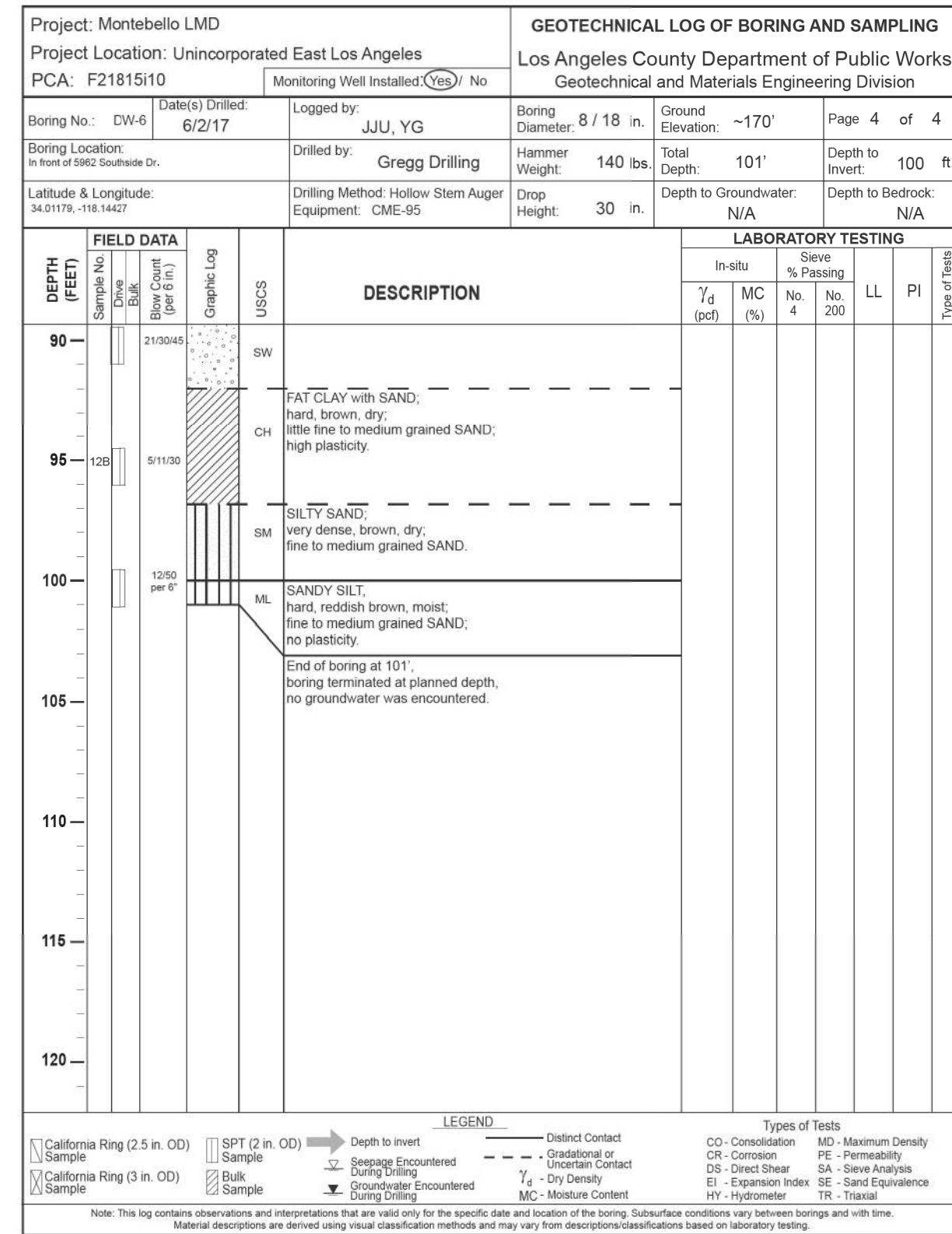
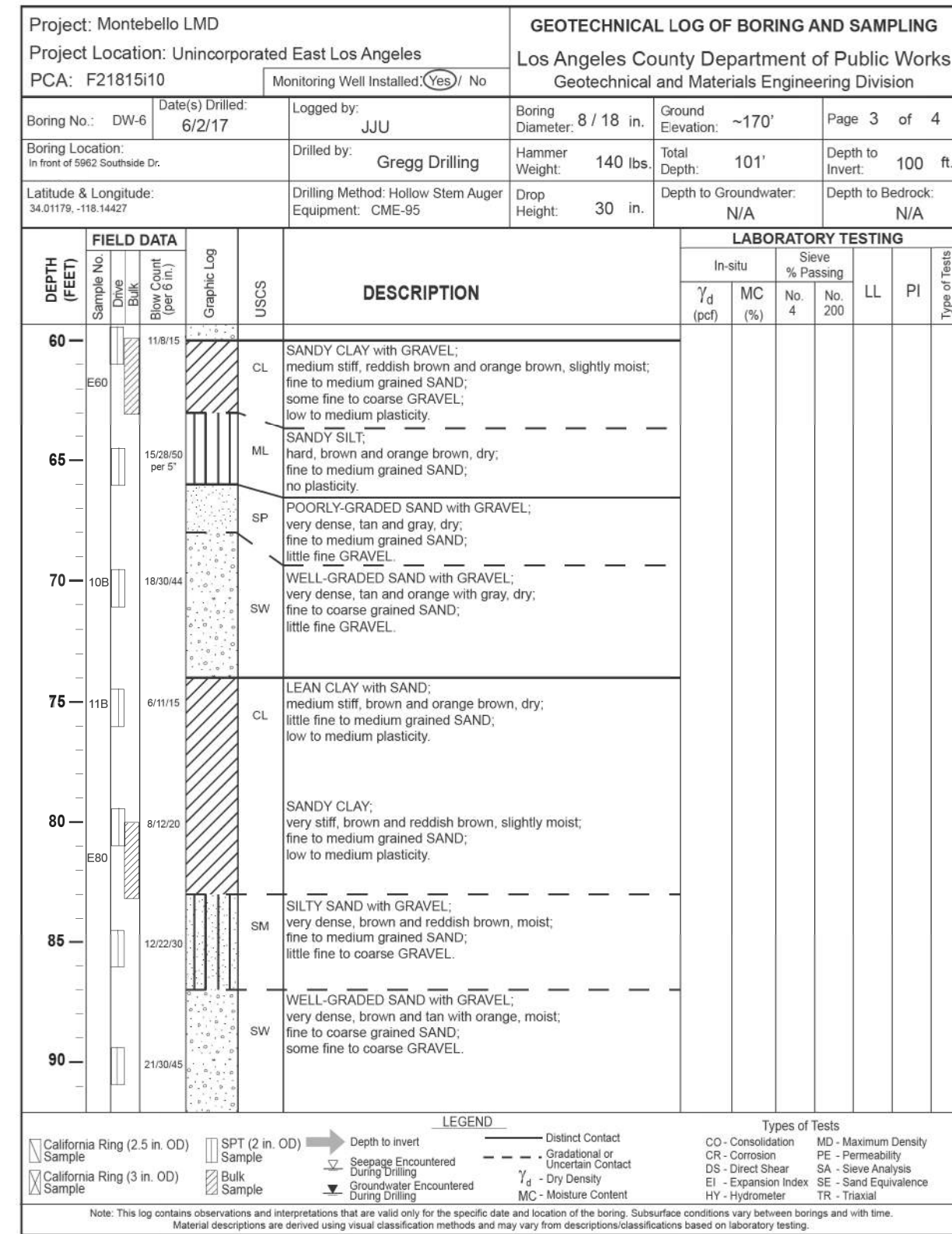
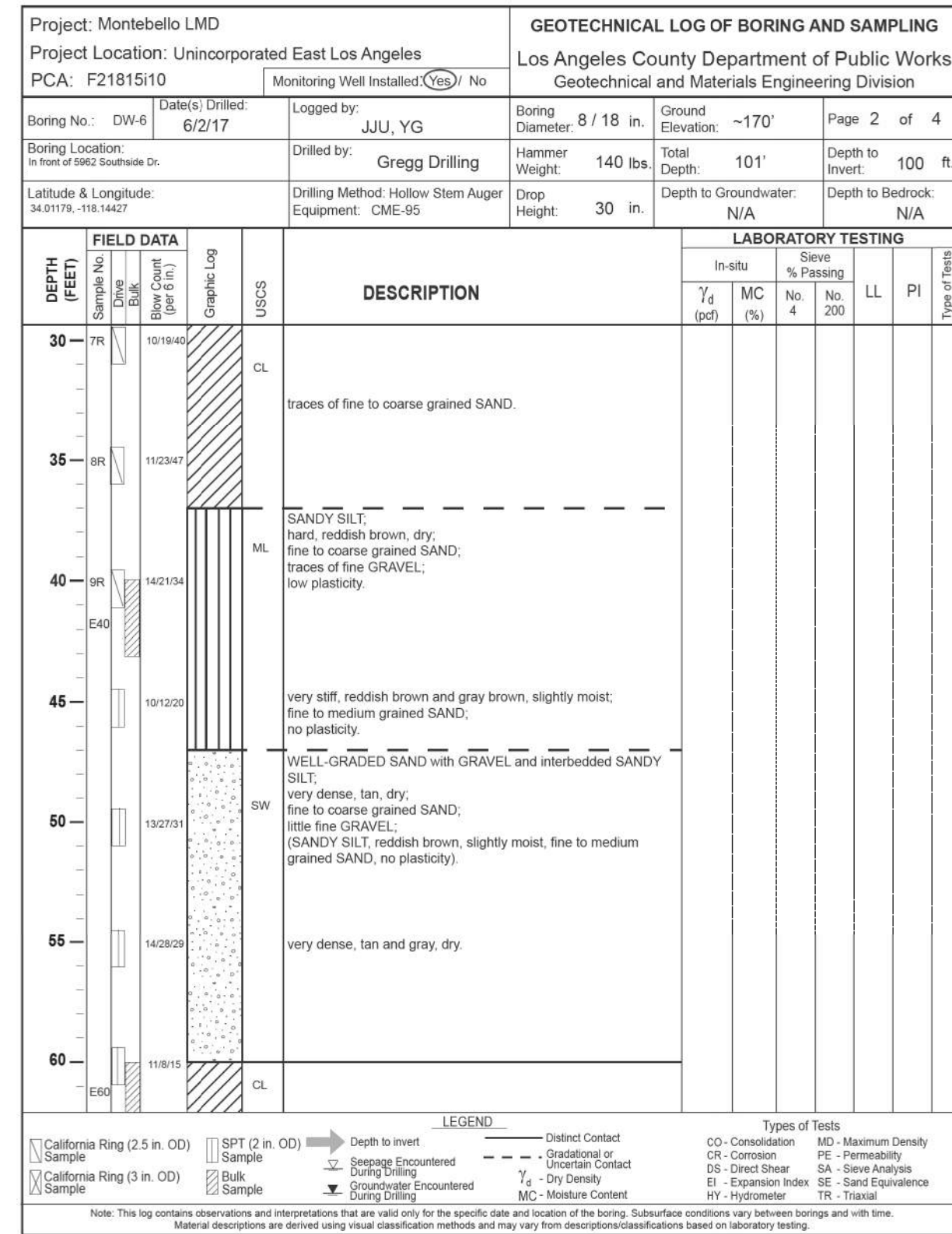
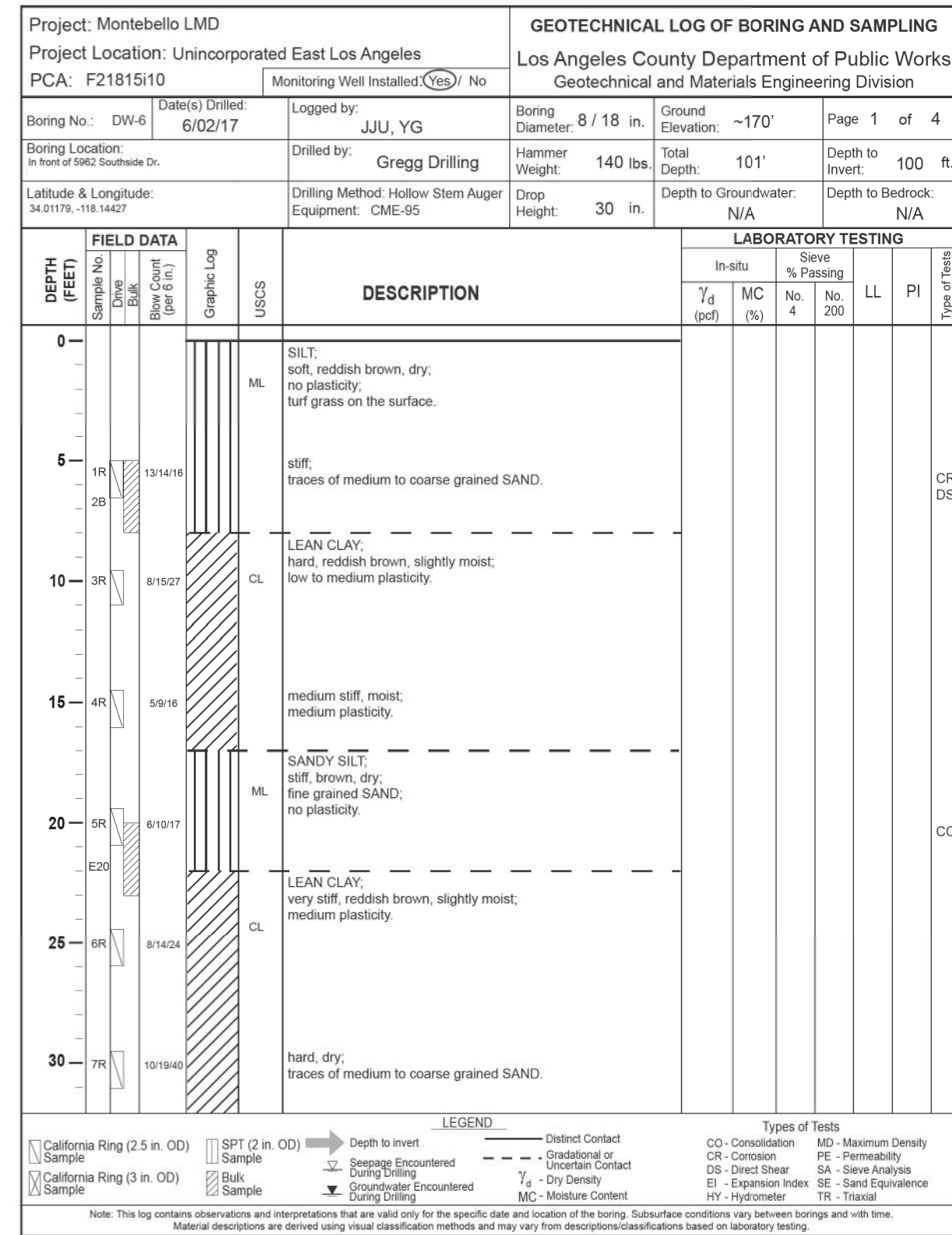
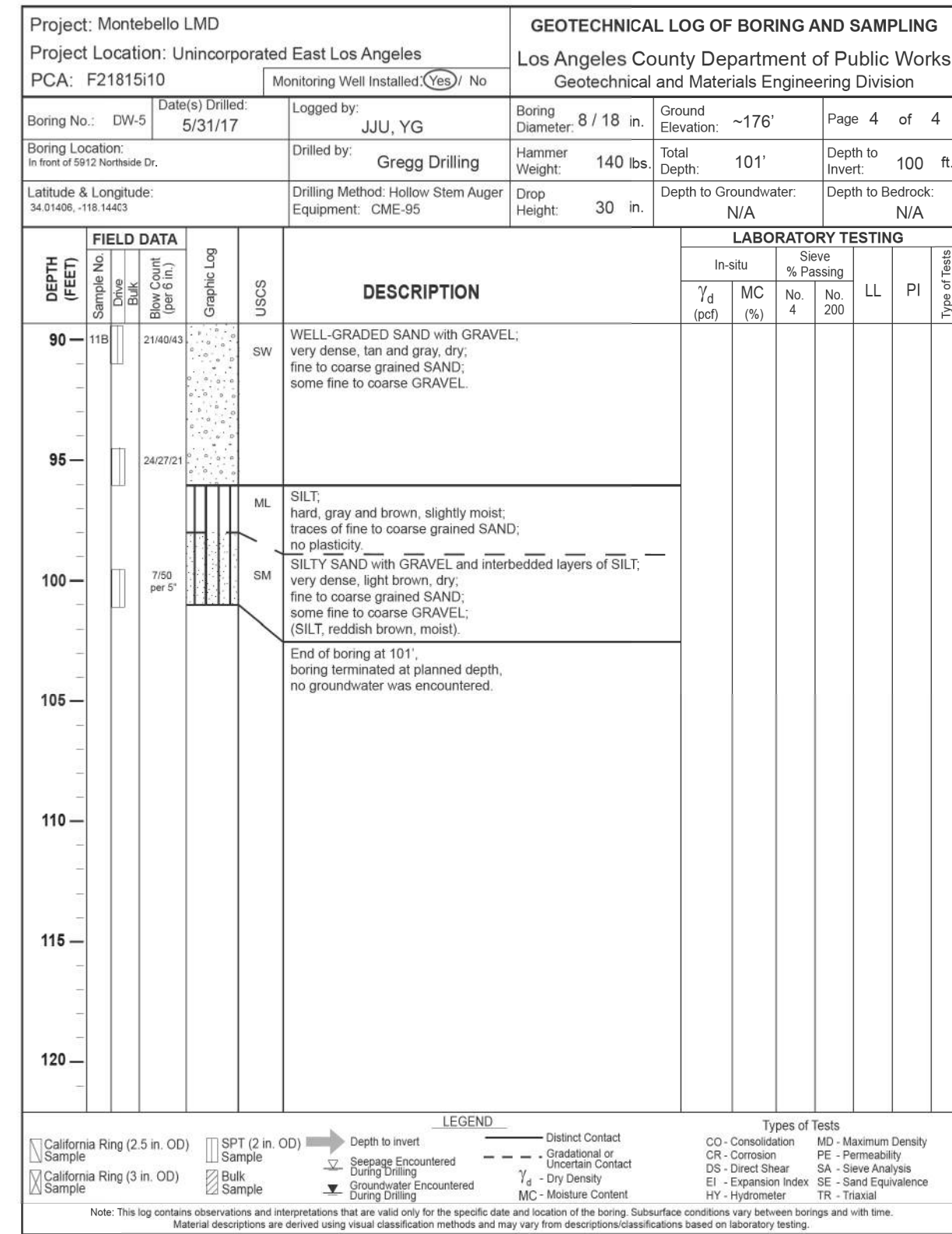
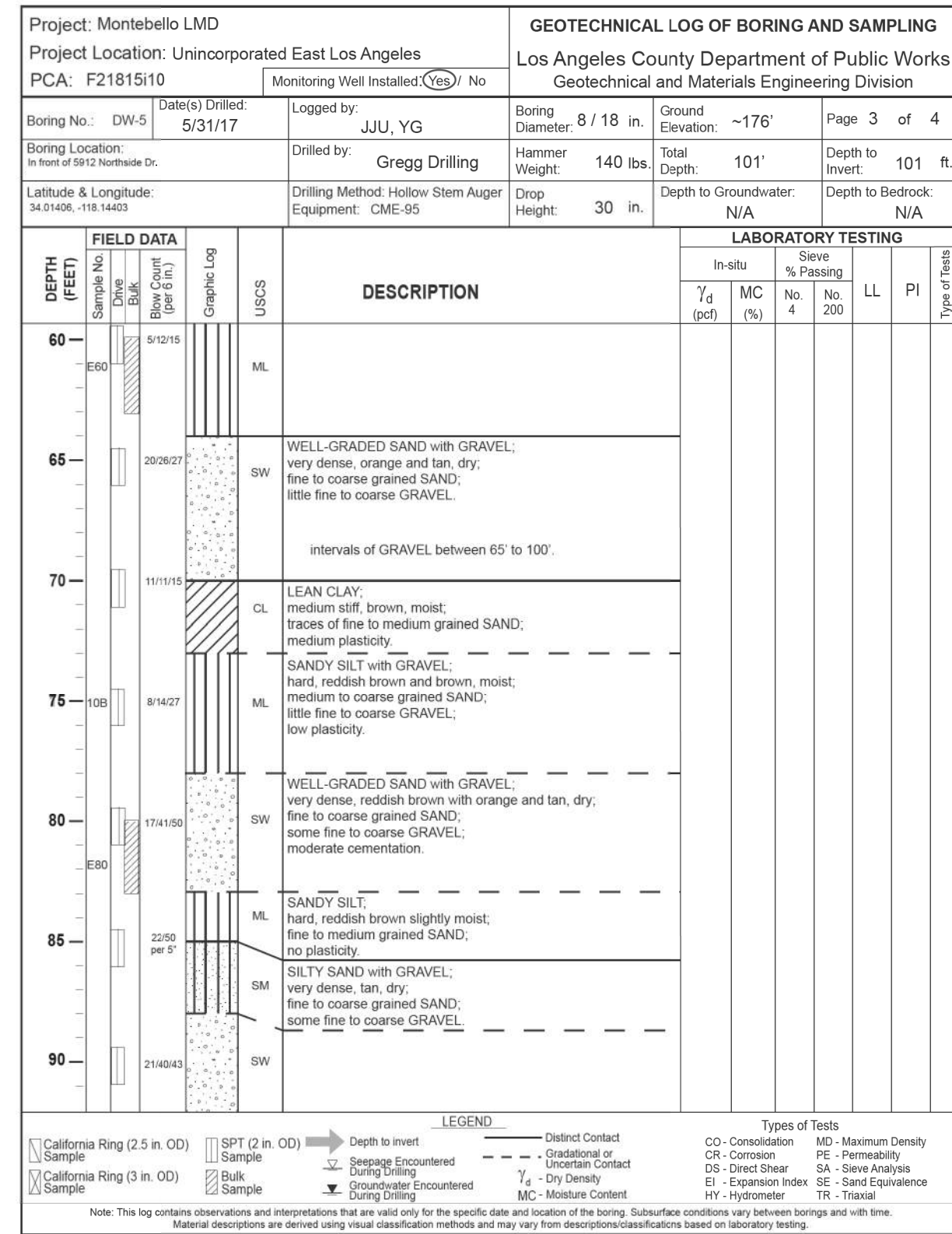
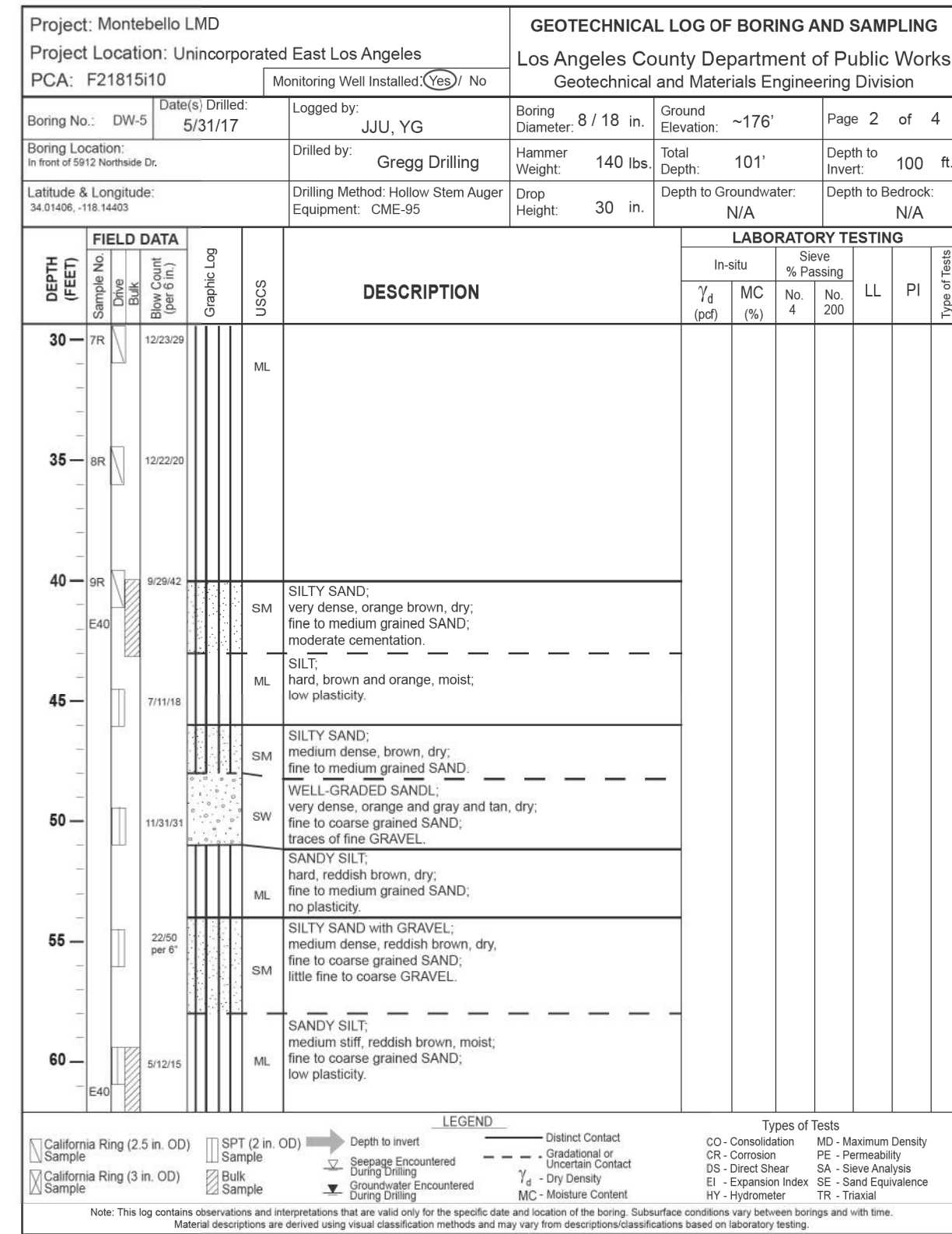
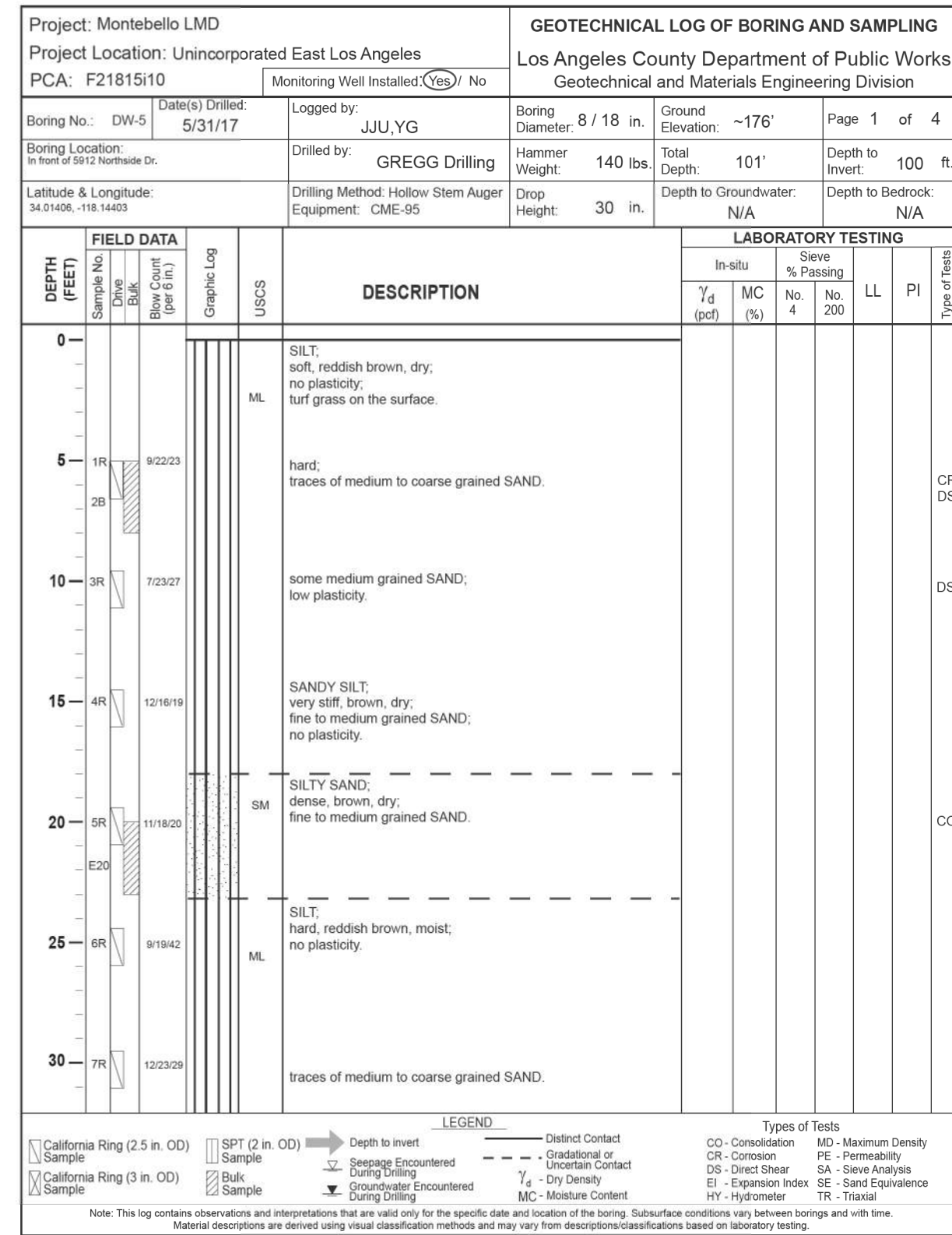


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 DESIGNER
 C. RAVE
 DRAFTER
 C. RAVE

DATE	MK	DESCRIPTION
REVISIONS		

LOS ANGELES COUNTY PUBLIC WORKS
**EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT**
 LOG OF BORINGS
 PROJECT ID NO. WMU000010

PROJECT ENGINEER: [Signature] DATE: 03/27/18
 LACFCD INDEX NO. 116-D27 SHEET 20 OF 26



CHECKER: C. RAVE
 DESIGNER: C. RAVE
 DRAFTER: C. RAVE

DATE	MK	DESCRIPTION

PROJECT ENGINEER: *J. Rave*
DATE: 03/27/18

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
 LOG OF BORINGS
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Project: Montebello LMD. Project Location: Unincorporated East Los Angeles. GEOTECHNICAL LOG OF BORING AND SAMPLING. Log for Boring No. DW-7, dated 6/8/17, drilled by JUU, YG. Description includes silt, silty sand, lean clay, and sandy fat clay with gravel.

Project: Montebello LMD. Project Location: Unincorporated East Los Angeles. GEOTECHNICAL LOG OF BORING AND SAMPLING. Log for Boring No. DW-7, dated 6/8/17, drilled by JUU, YG. Description includes sandy fat clay with gravel, sandy lean clay, and well-graded sand with gravel.

Project: Montebello LMD. Project Location: Unincorporated East Los Angeles. GEOTECHNICAL LOG OF BORING AND SAMPLING. Log for Boring No. DW-7, dated 6/8/17, drilled by JUU, YG. Description includes silty sand, sandy lean clay, and well-graded sand with gravel.

Project: Montebello LMD. Project Location: Unincorporated East Los Angeles. GEOTECHNICAL LOG OF BORING AND SAMPLING. Log for Boring No. DW-7, dated 6/8/17, drilled by JUU, YG. Description includes well-graded sand with gravel, silty sand, and sandy lean clay.

Project: Montebello LMD. Project Location: Unincorporated East Los Angeles. GEOTECHNICAL LOG OF BORING AND SAMPLING. Log for Boring No. DW-8, dated 6/9/17, drilled by JUU, YG. Description includes silt, sandy lean clay, lean clay with sand, and sandy fat clay with gravel.

Project: Montebello LMD. Project Location: Unincorporated East Los Angeles. GEOTECHNICAL LOG OF BORING AND SAMPLING. Log for Boring No. DW-8, dated 6/9/17, drilled by JUU, YG. Description includes silty sand, sandy lean clay, and well-graded sand with gravel.

Project: Montebello LMD. Project Location: Unincorporated East Los Angeles. GEOTECHNICAL LOG OF BORING AND SAMPLING. Log for Boring No. DW-8, dated 6/9/17, drilled by JUU, YG. Description includes silty sand, sandy lean clay, and well-graded sand with gravel.

Project: Montebello LMD. Project Location: Unincorporated East Los Angeles. GEOTECHNICAL LOG OF BORING AND SAMPLING. Log for Boring No. DW-8, dated 6/9/17, drilled by JUU, YG. Description includes well-graded sand with gravel, silty sand, and lean clay.

CADD PROJECT FILE NAME

CHECKER

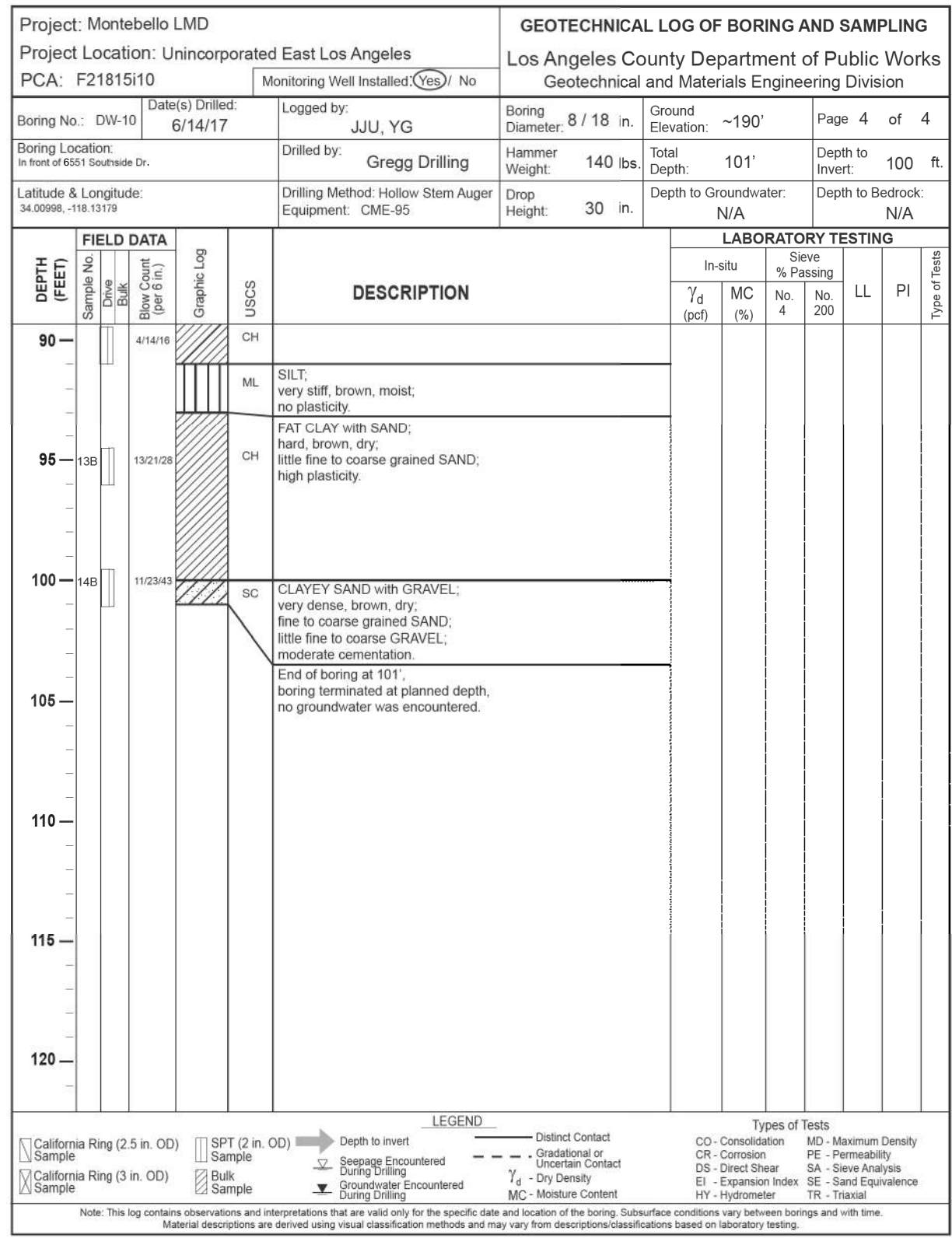
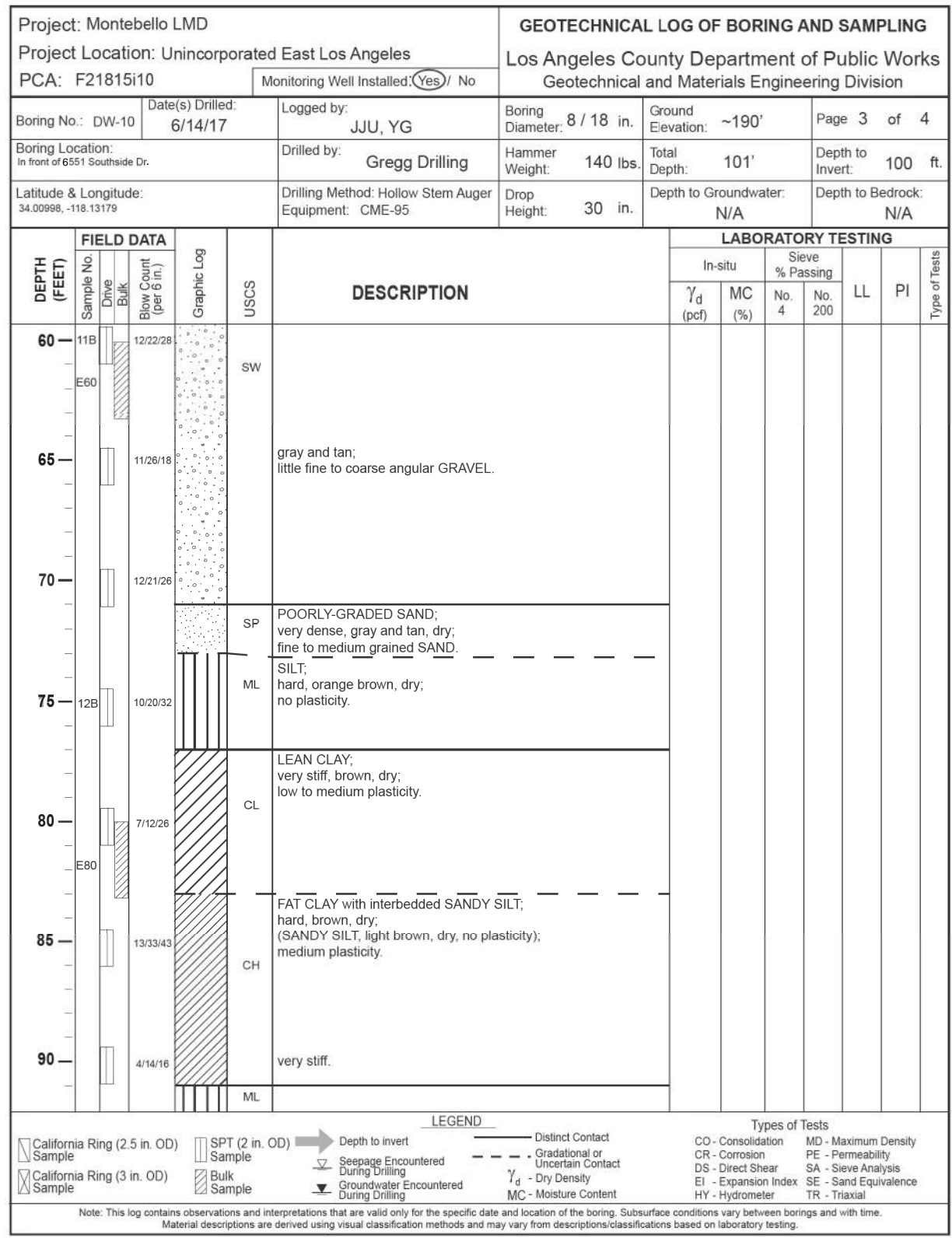
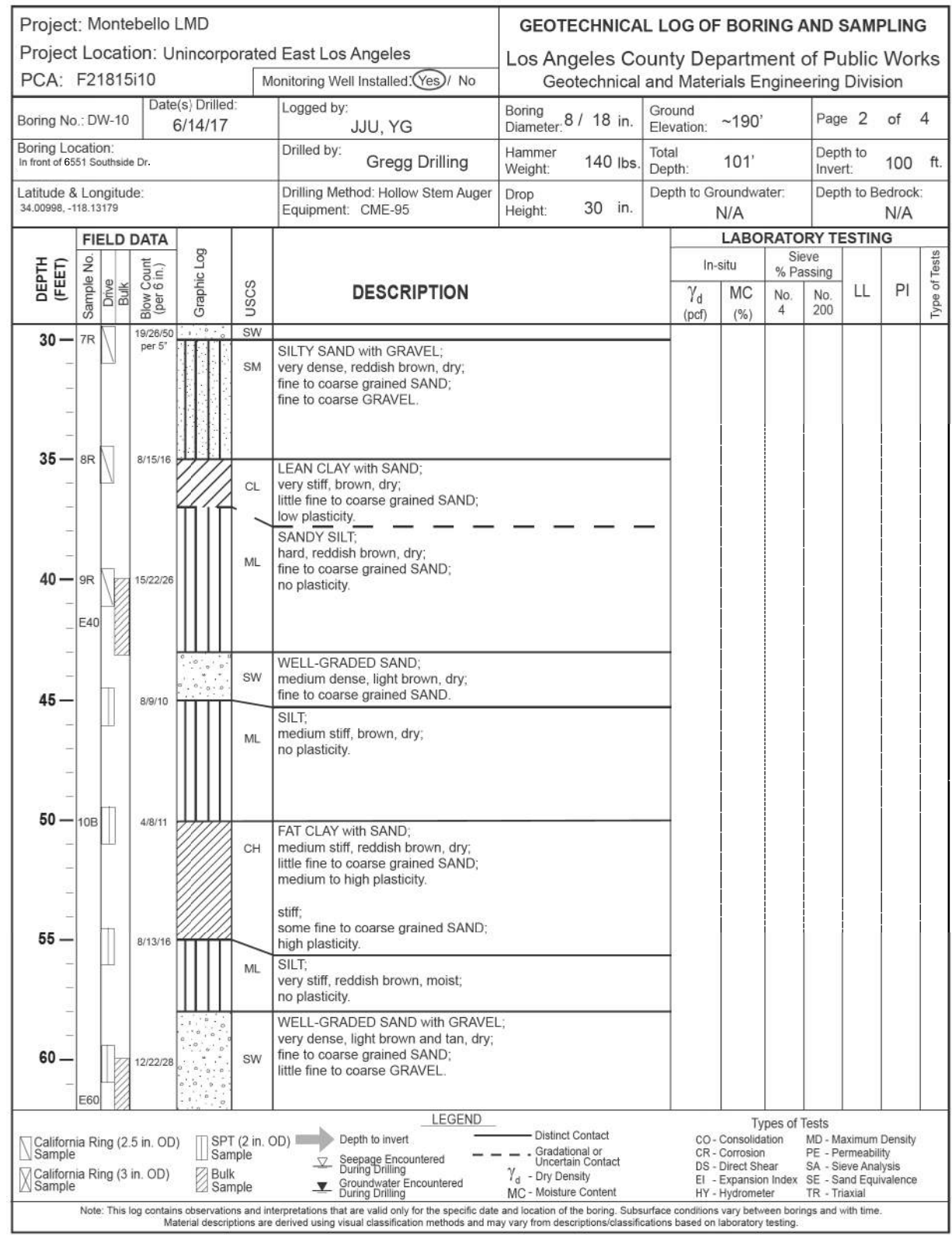
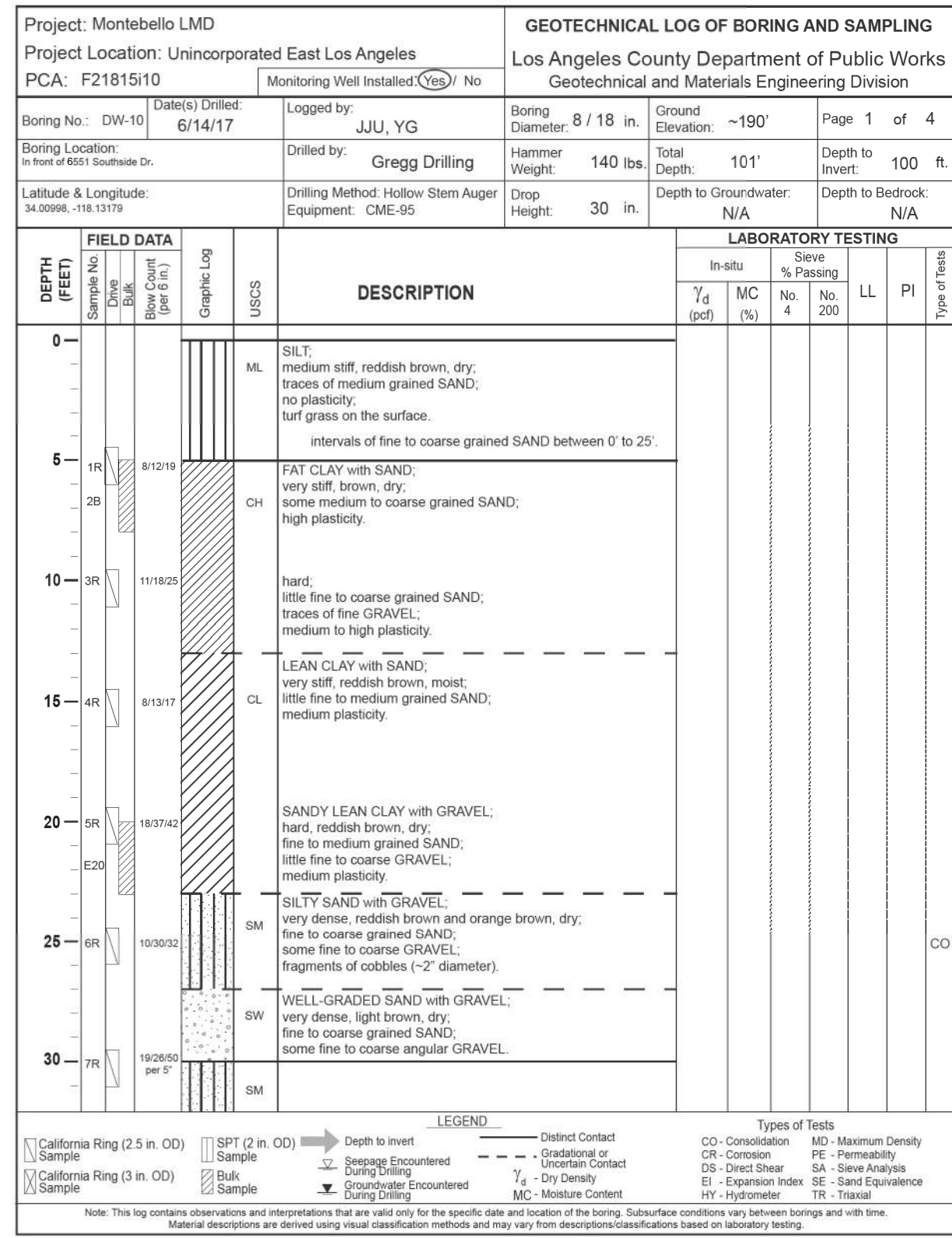
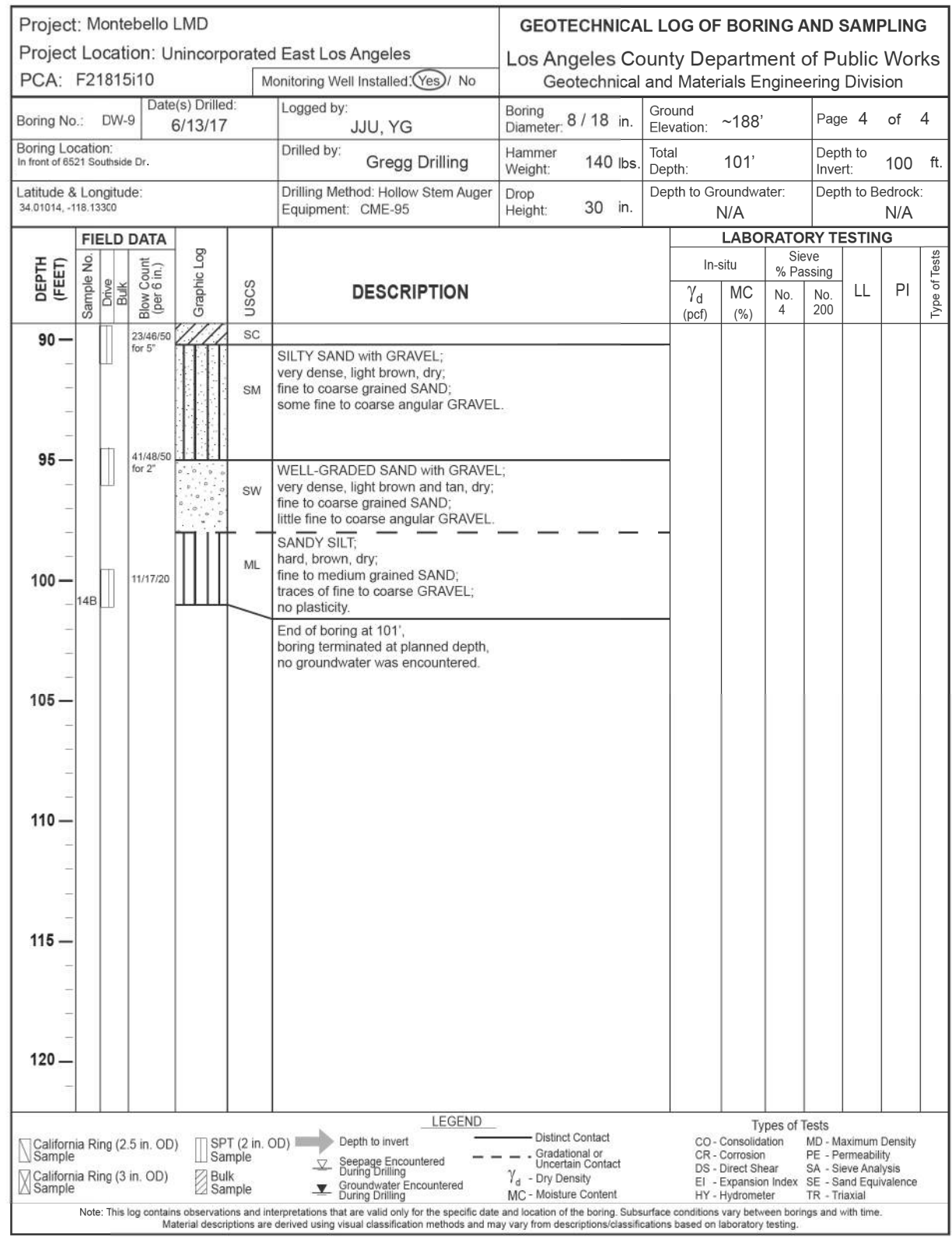
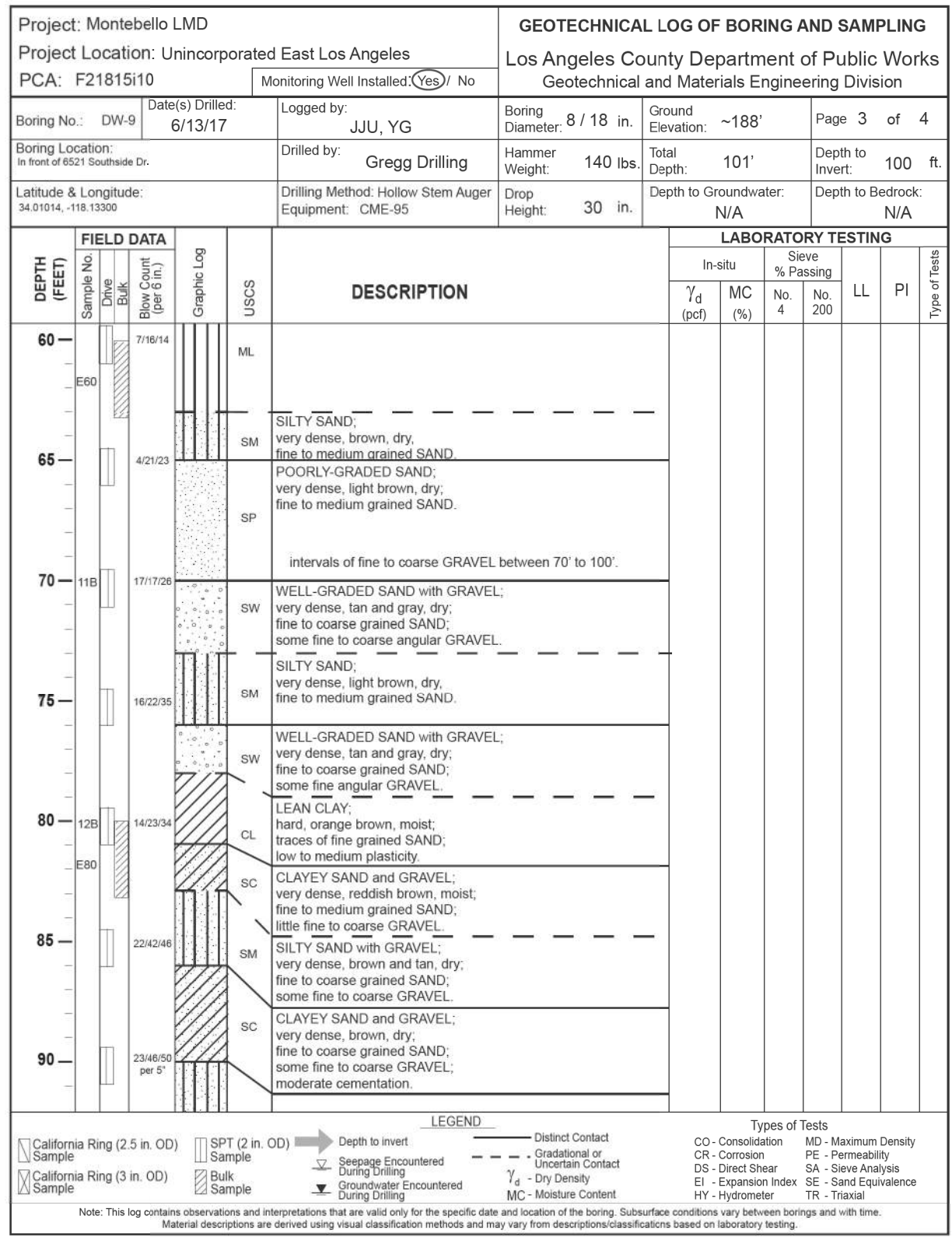
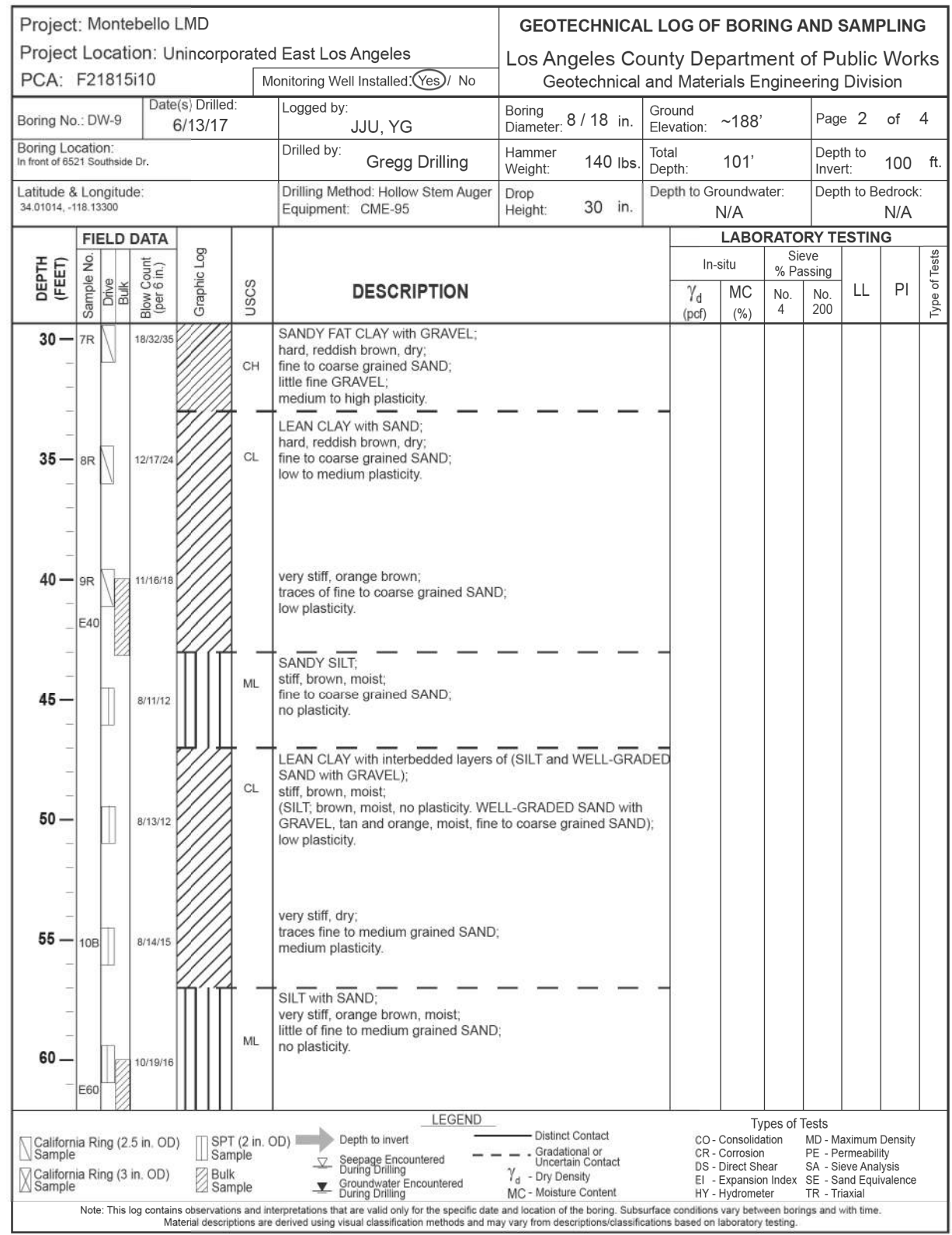
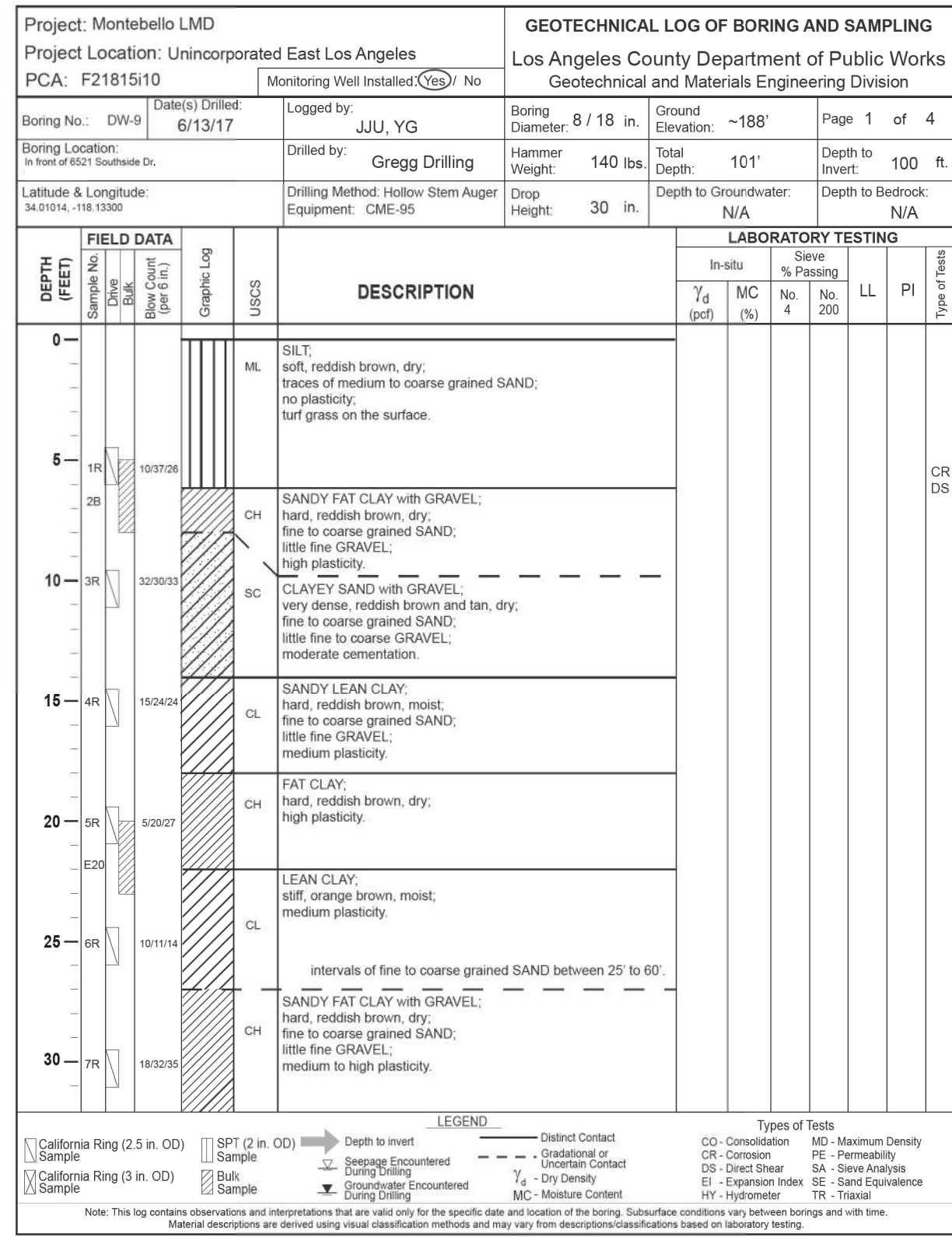
DESIGNER
C. RAVE

DRAFTER
C. RAVE

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LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
LOG OF BORINGS
PROJECT ID NO. WMU000010
DATE: 03/27/18
SHEET 22 OF 26

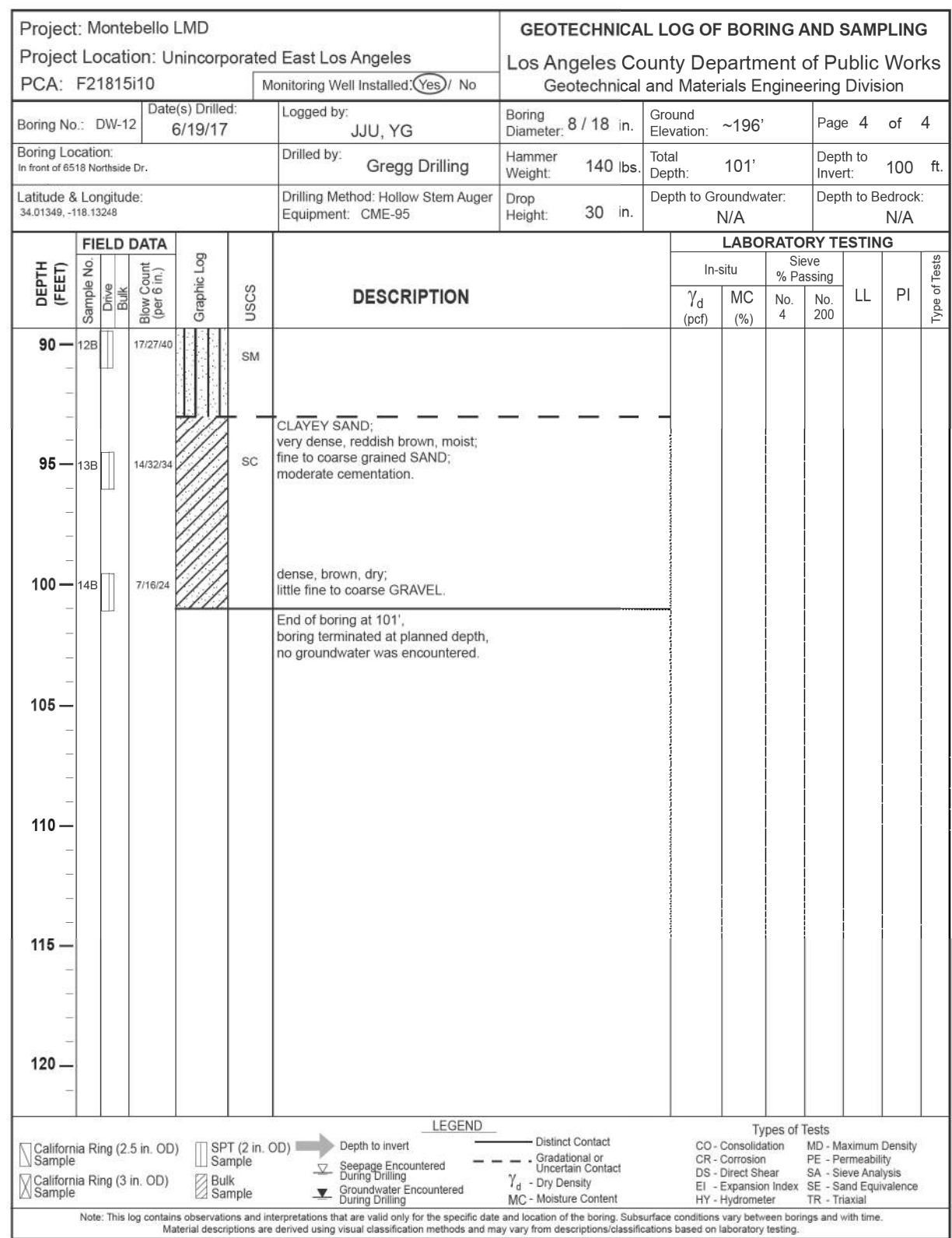
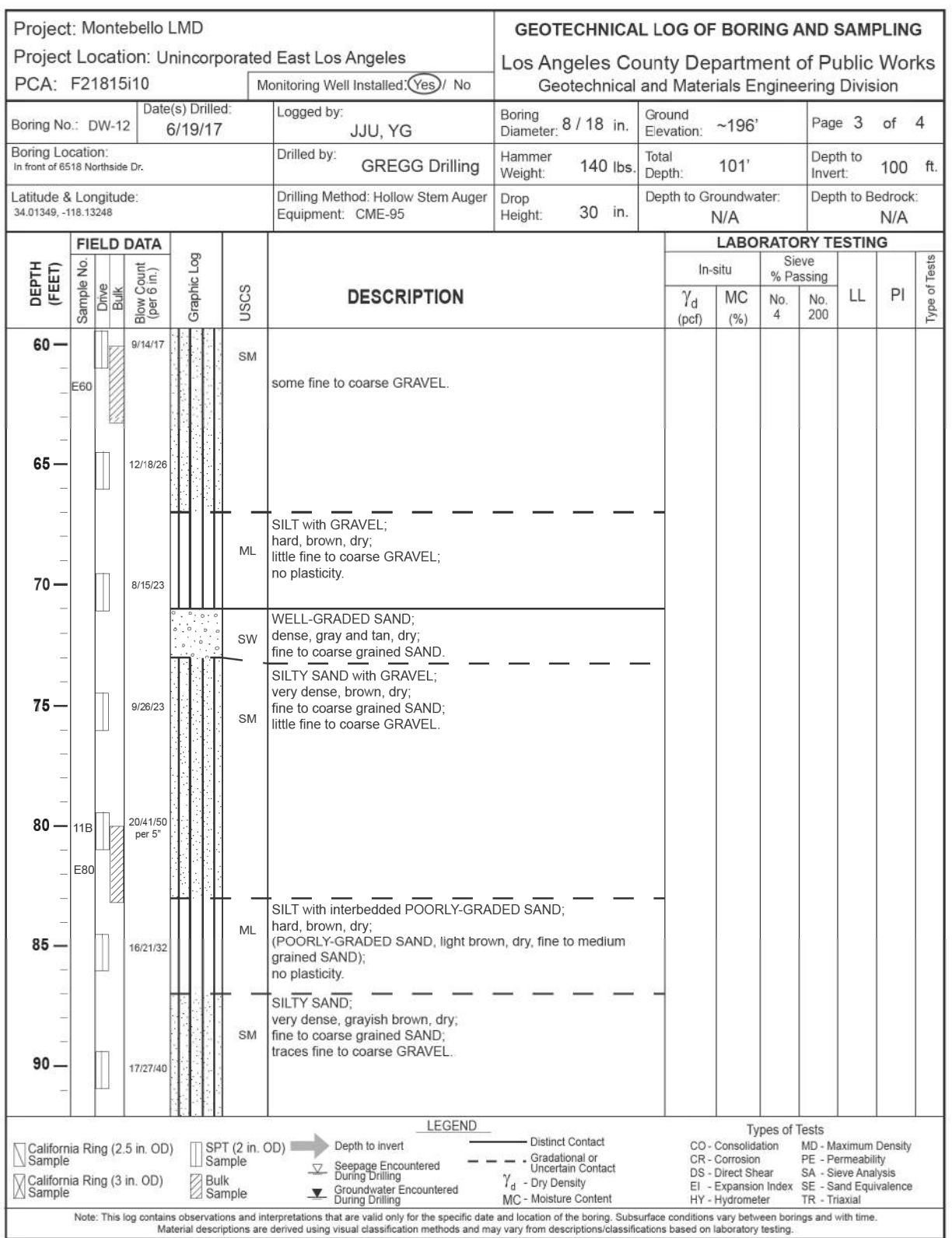
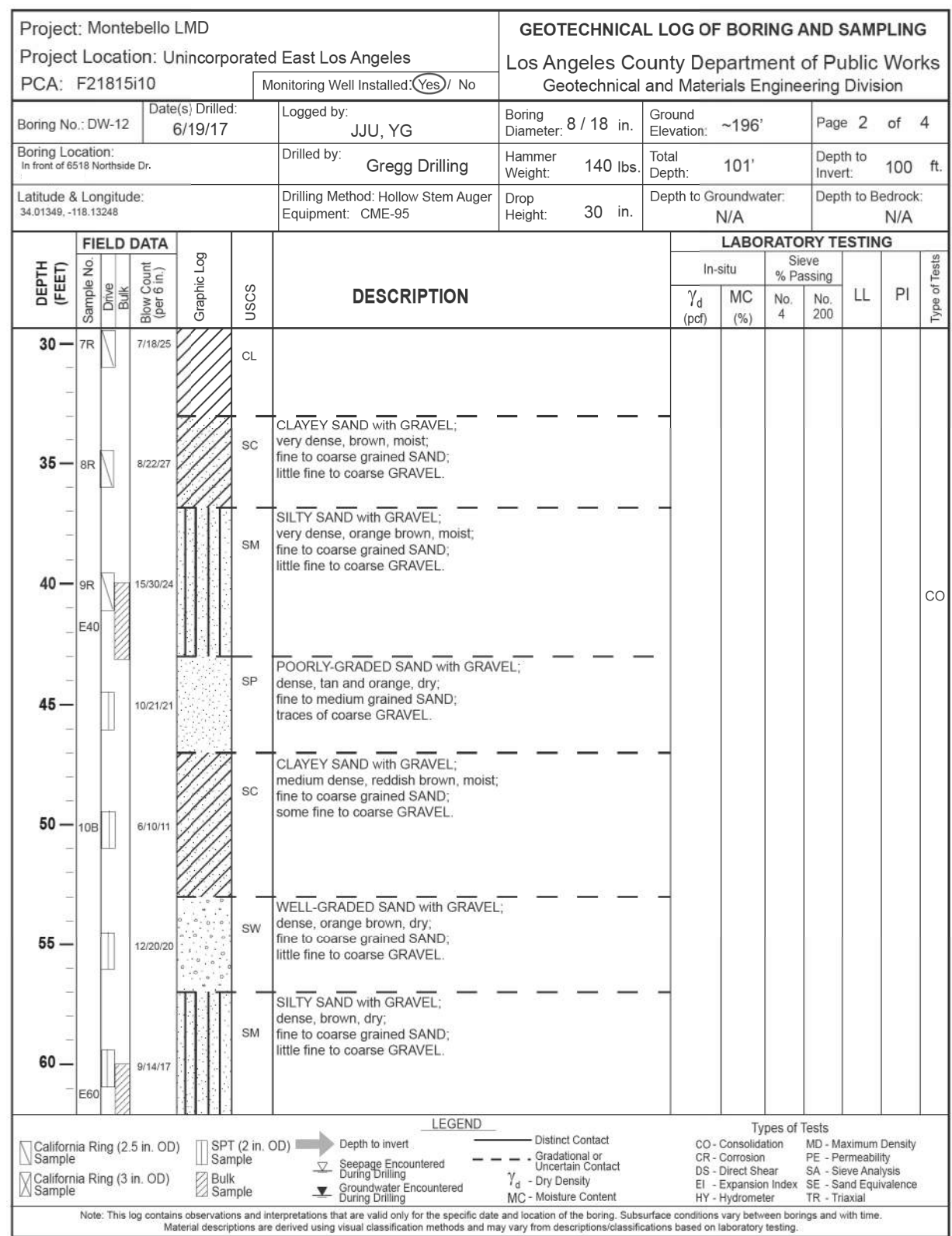
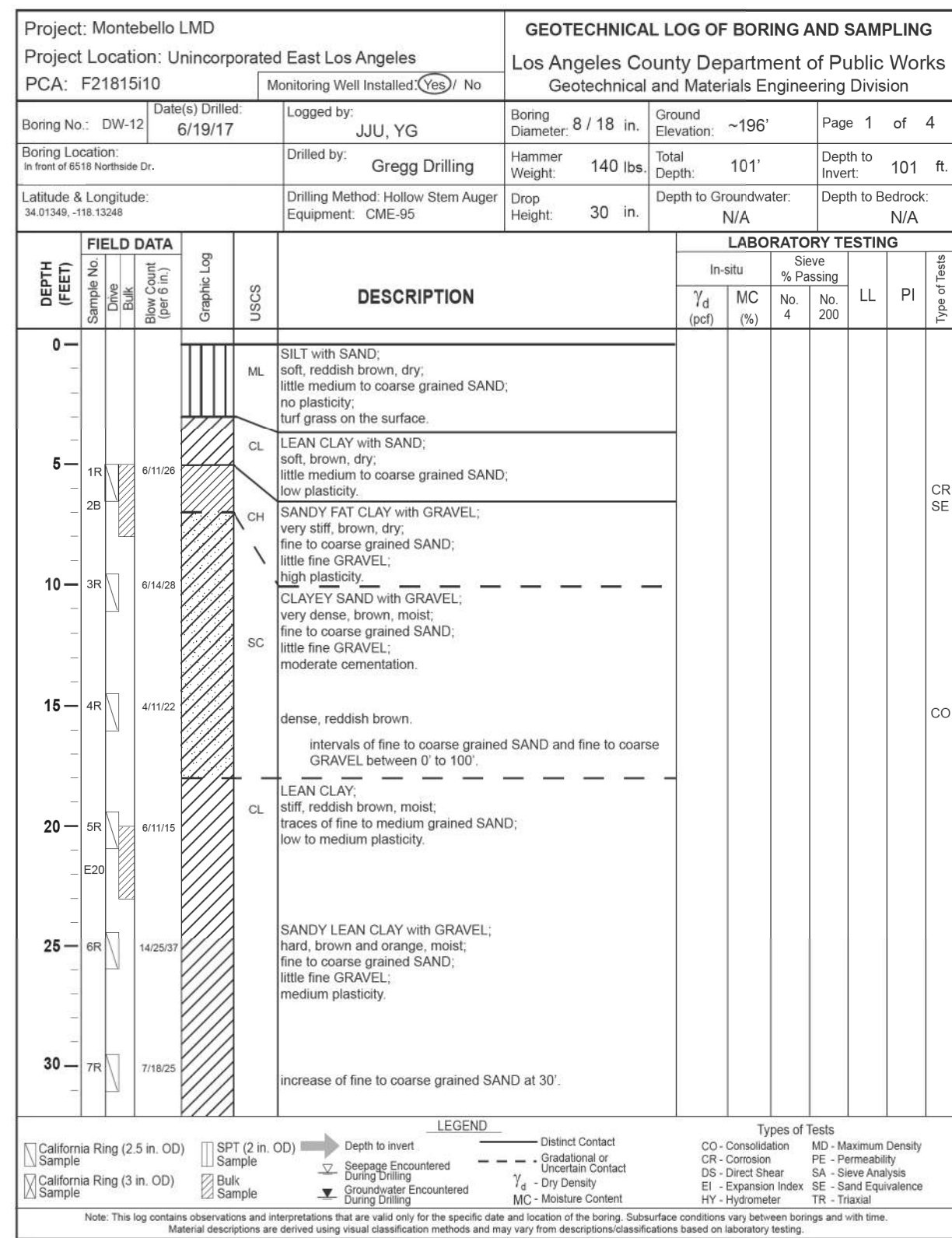
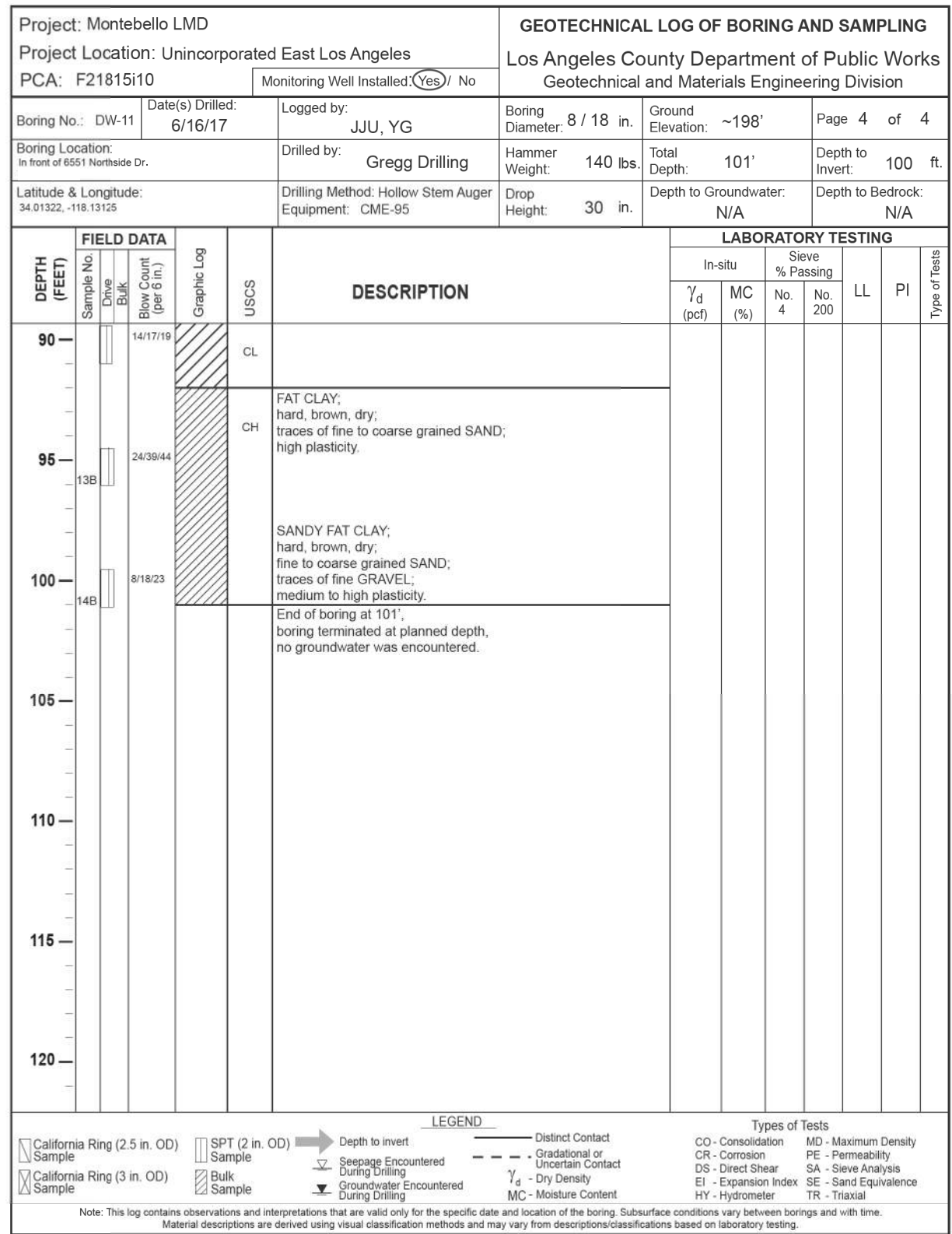
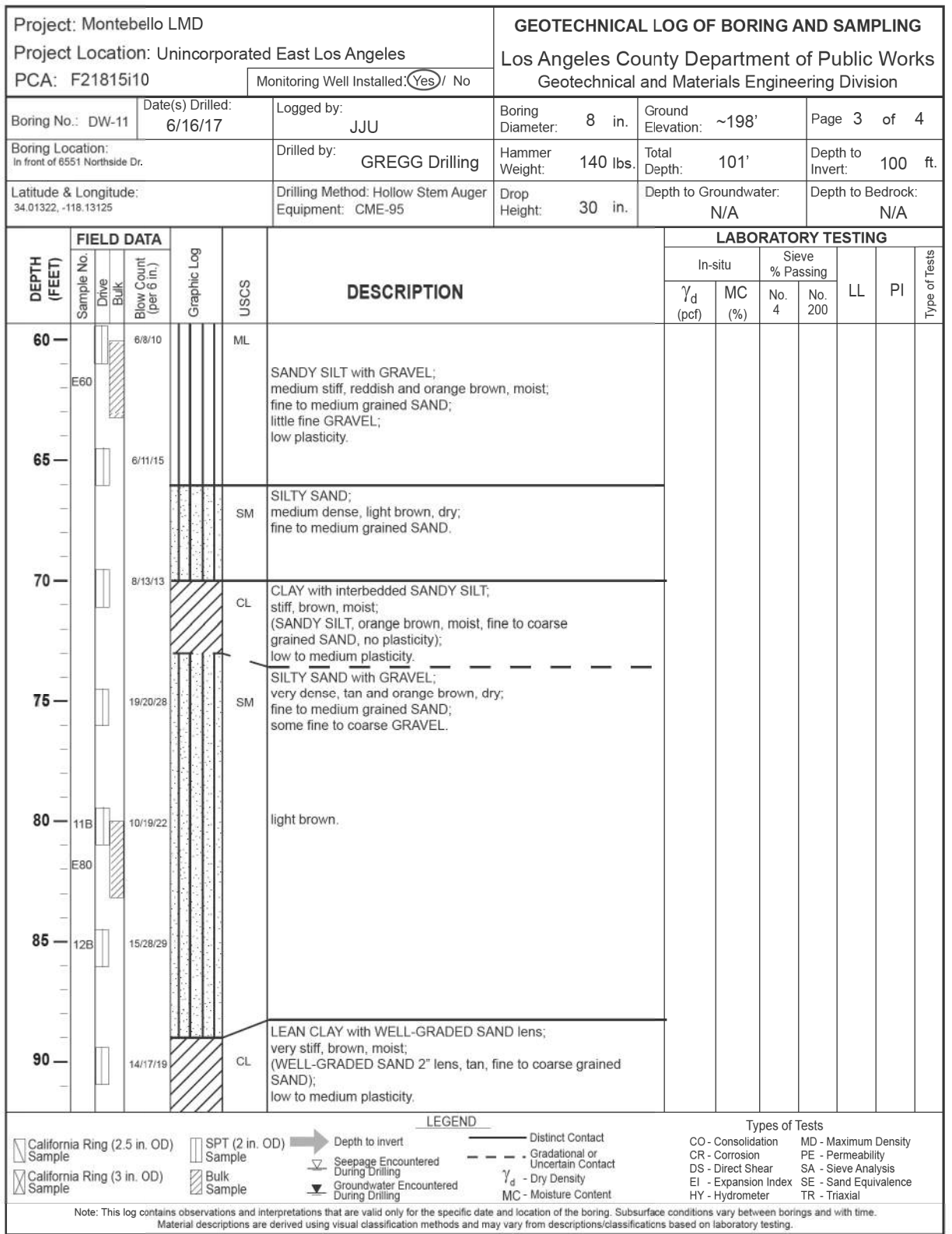
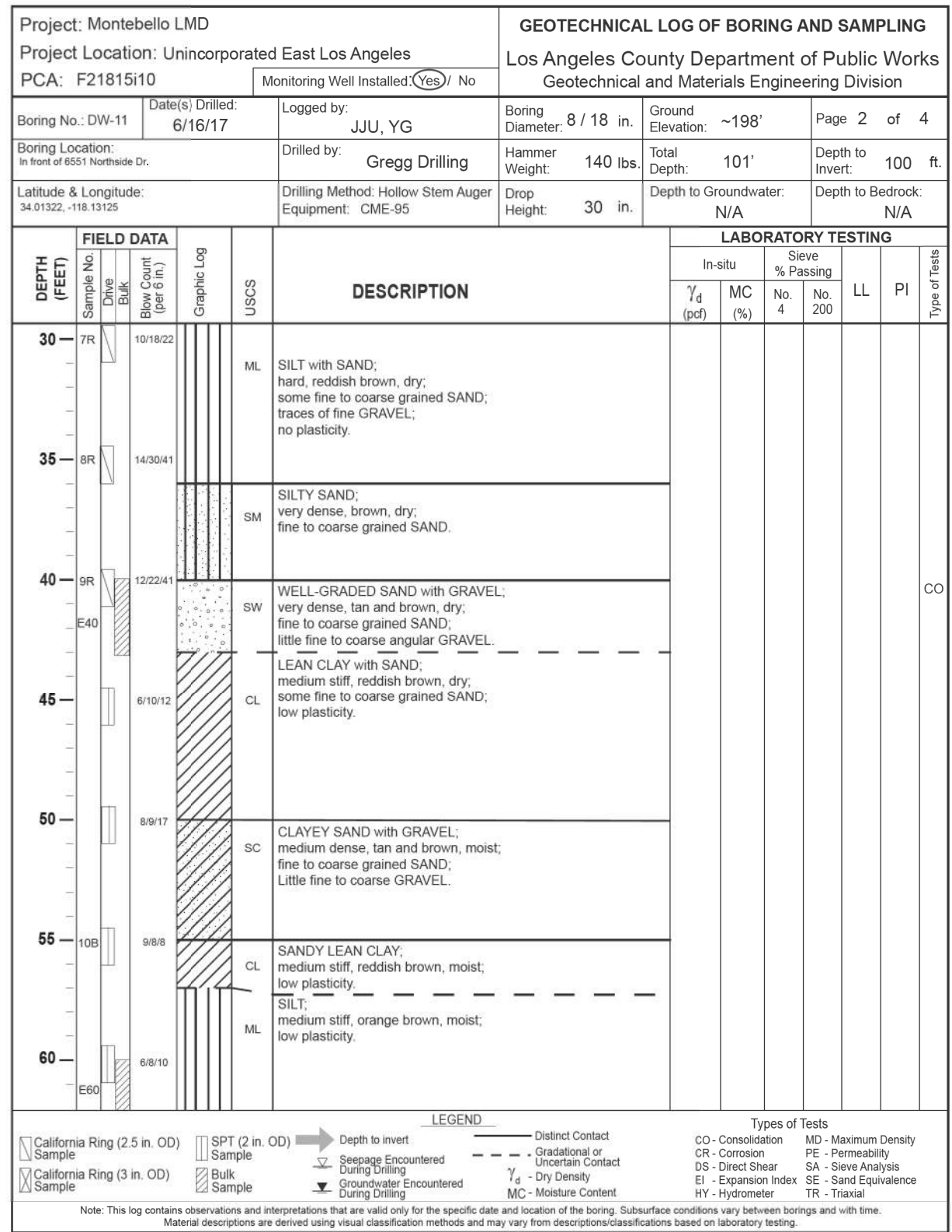
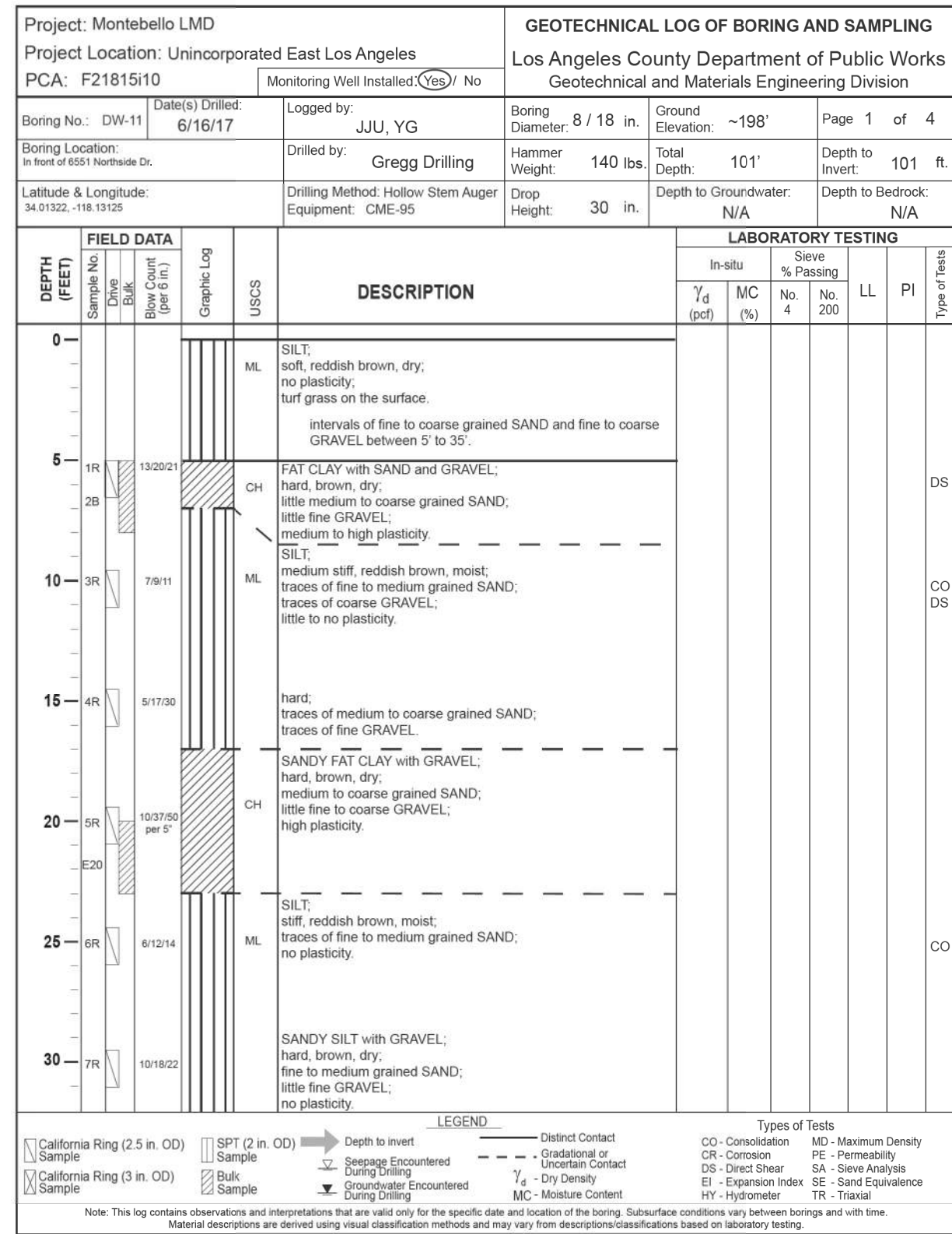


CHECKER: C. RAVE
 DESIGNER: C. RAVE
 DRAFTER: C. RAVE

DATE	MK	DESCRIPTION

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
LOG OF BORINGS
PROJECT ID NO. WMU000010

PROJECT ENGINEER:	DATE: 03/27/18	LACFCD INDEX NO. 116-D27
SHEET 23 OF 26		



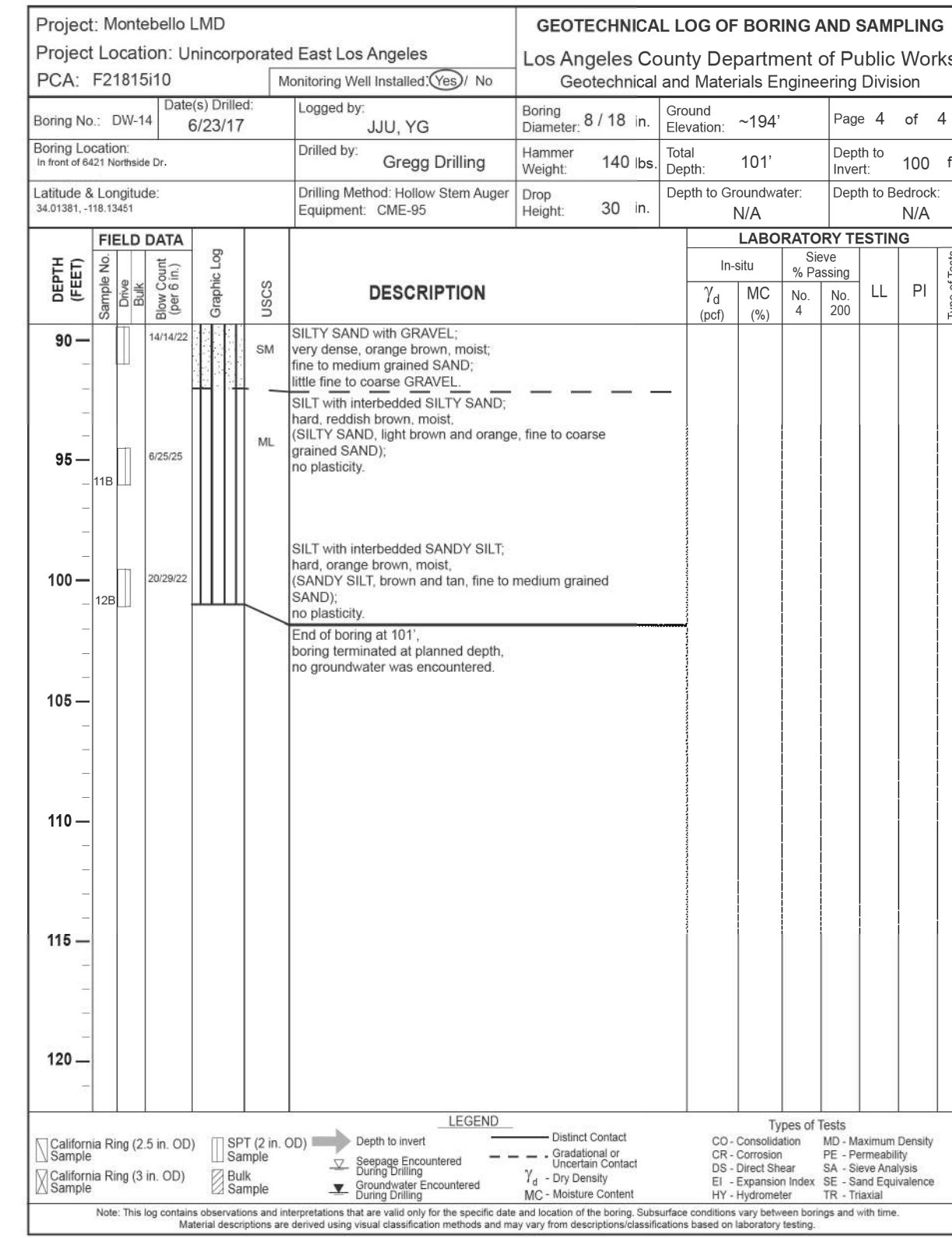
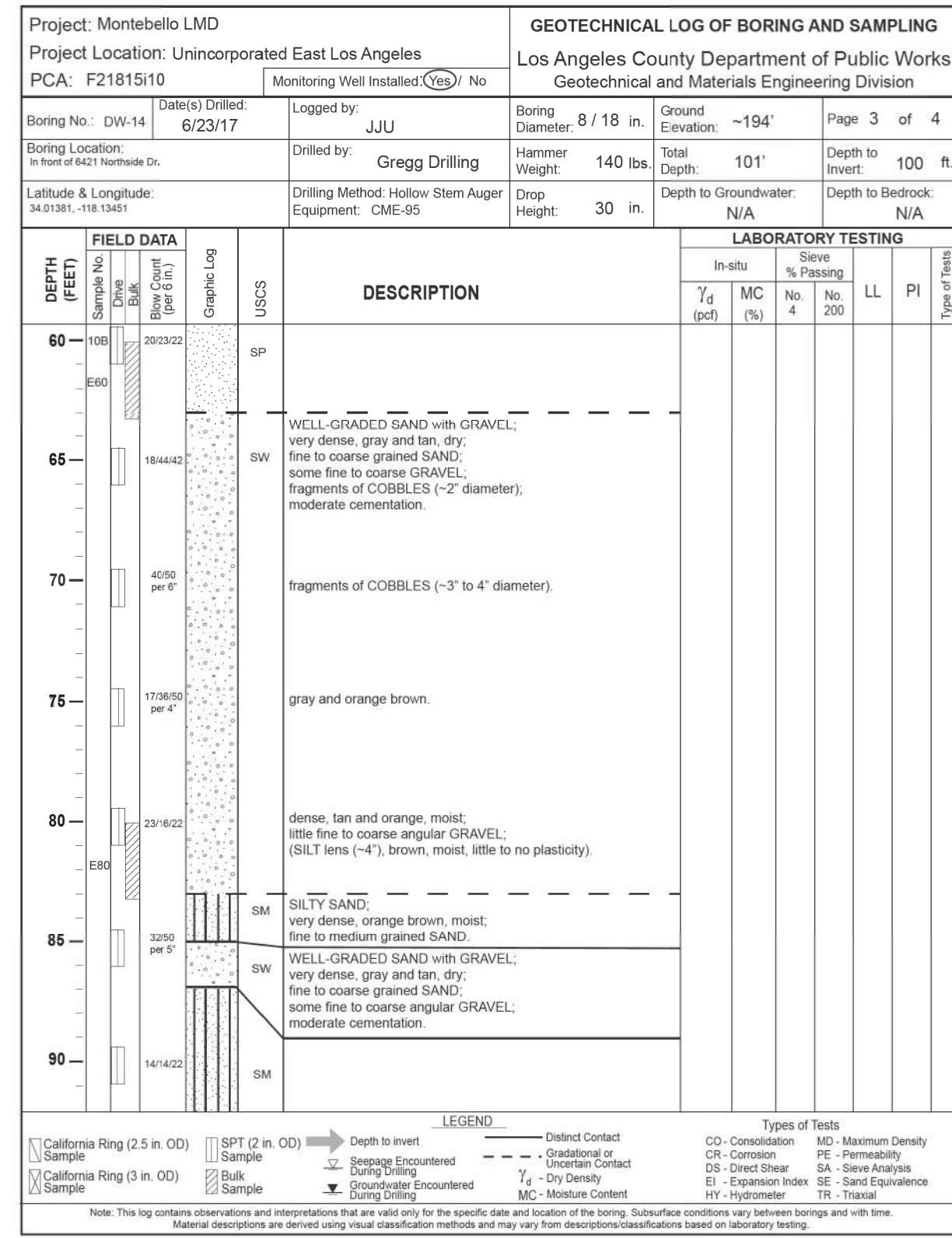
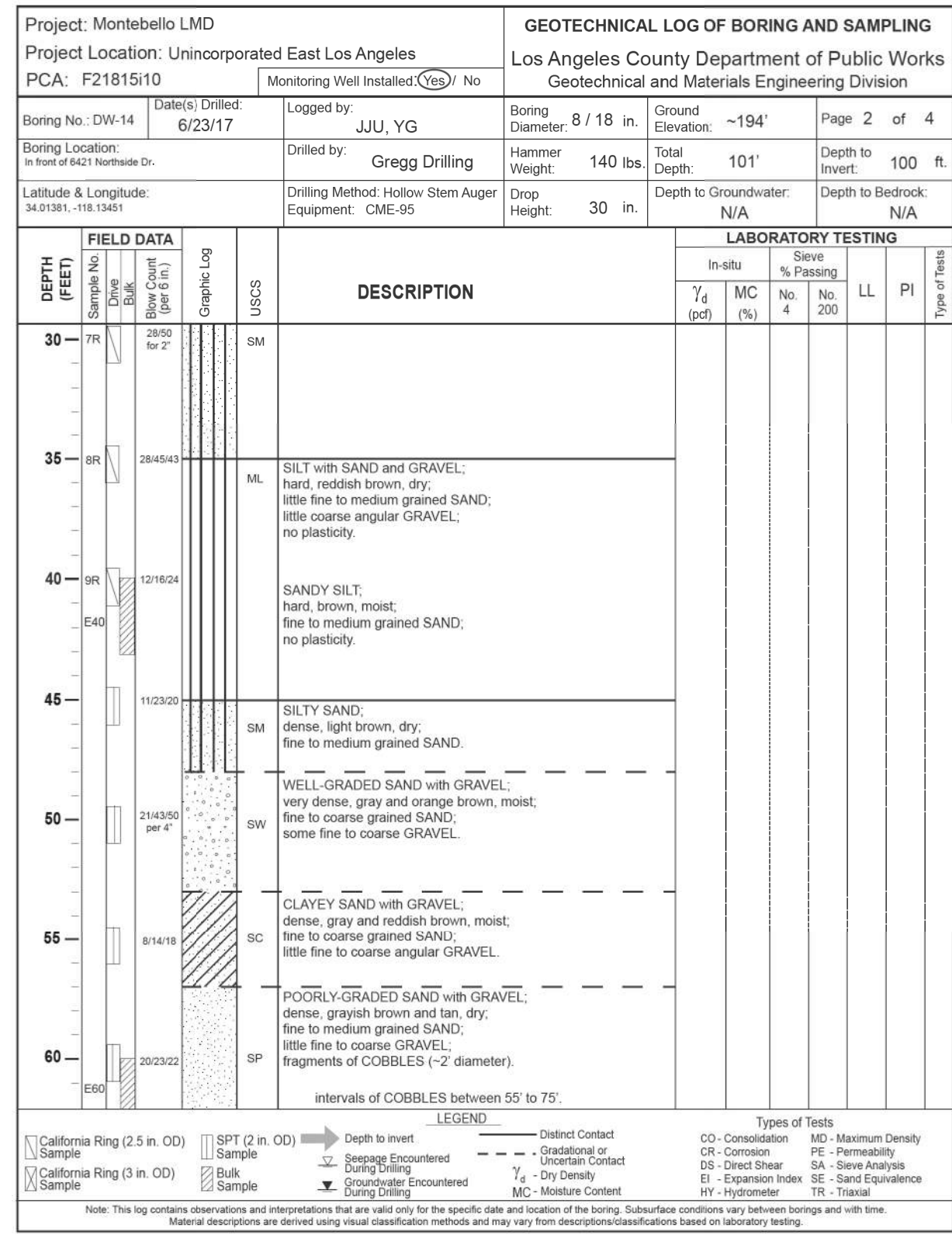
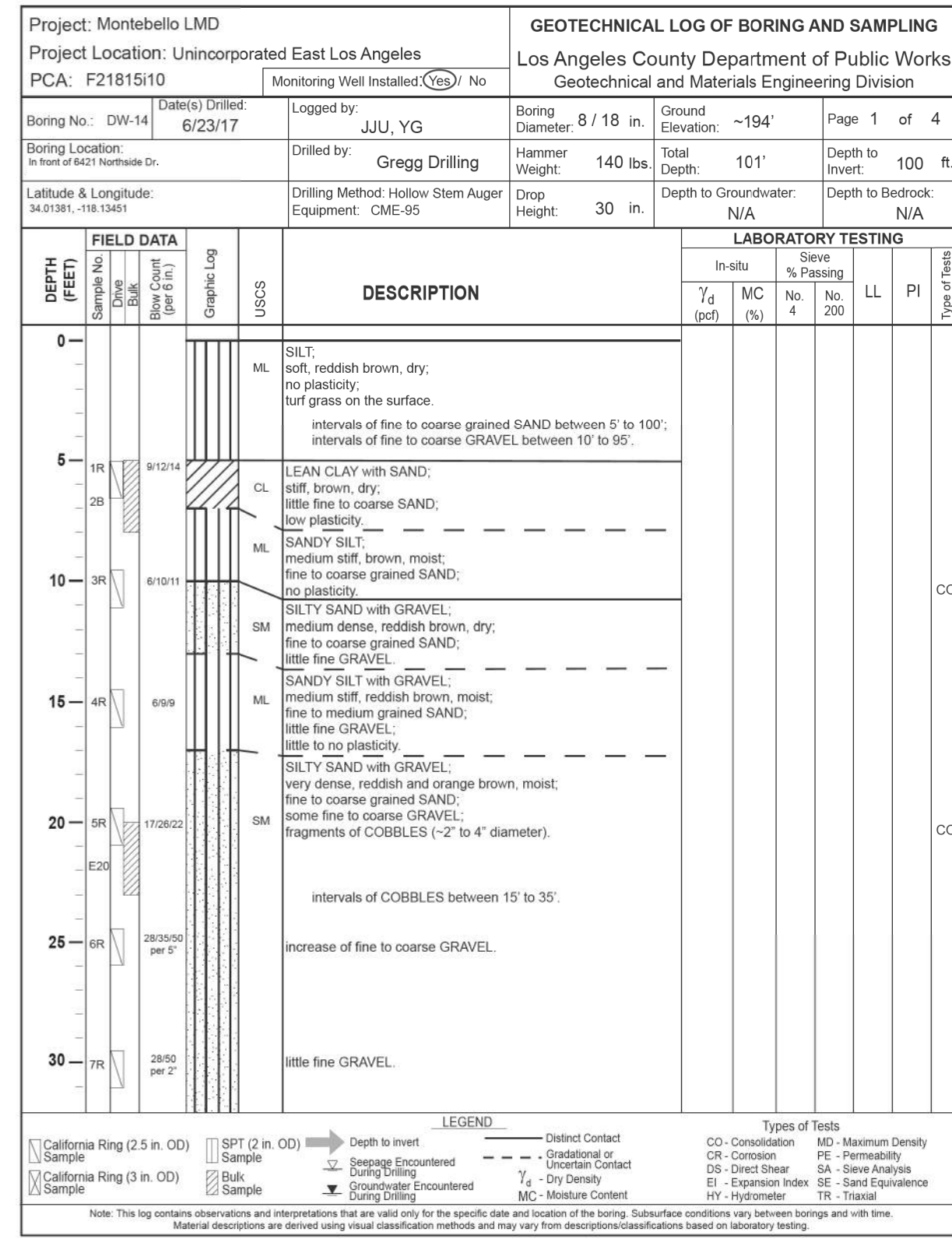
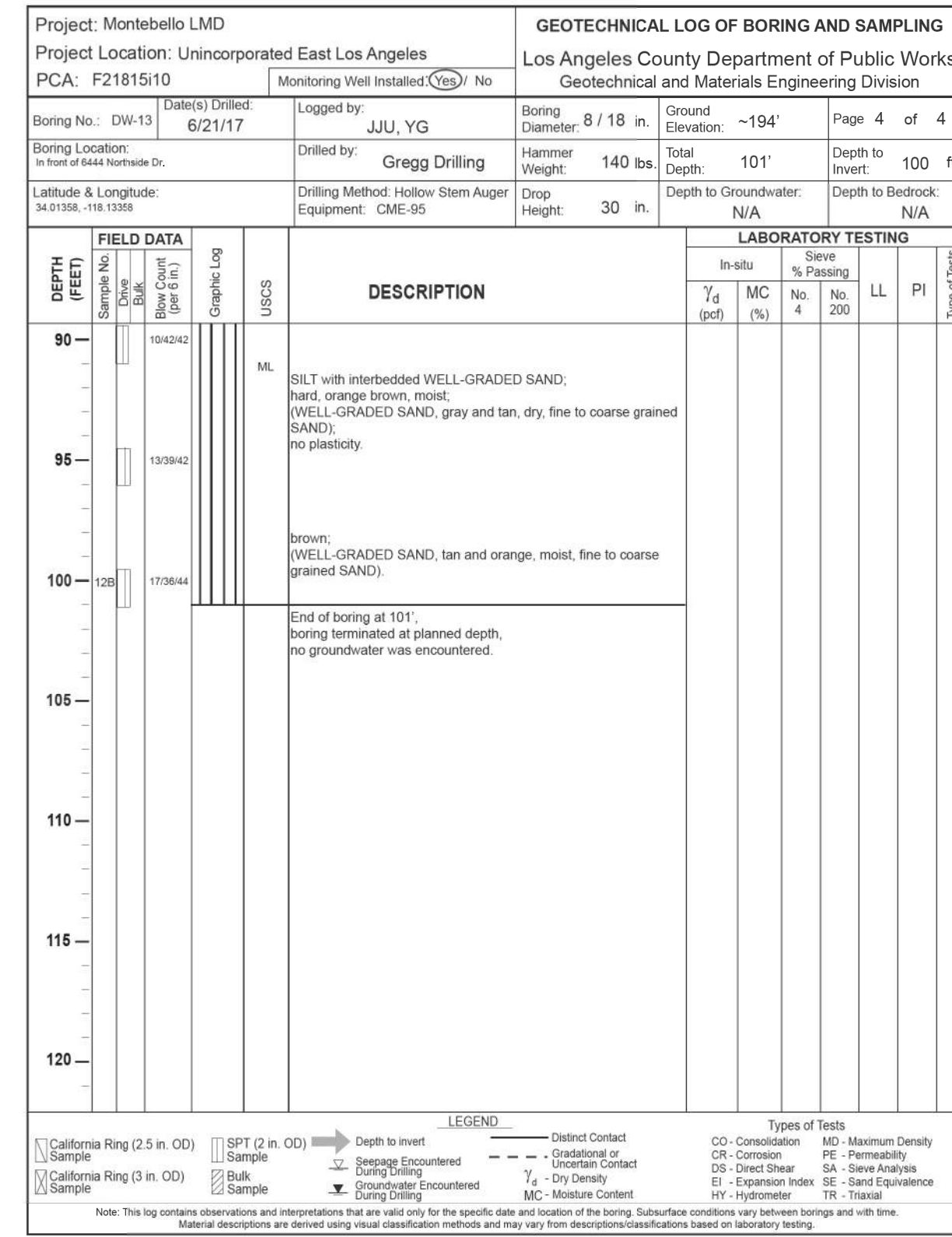
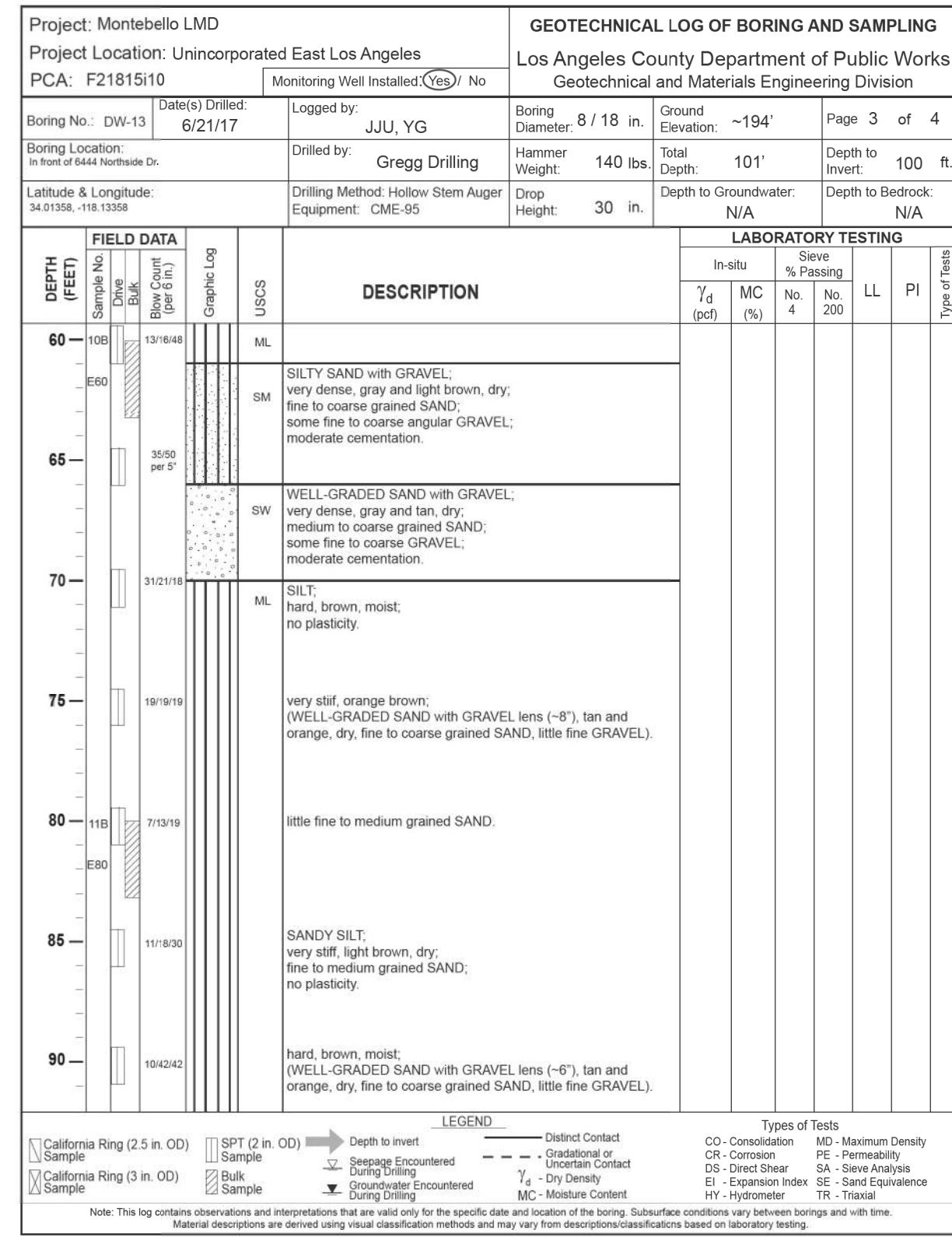
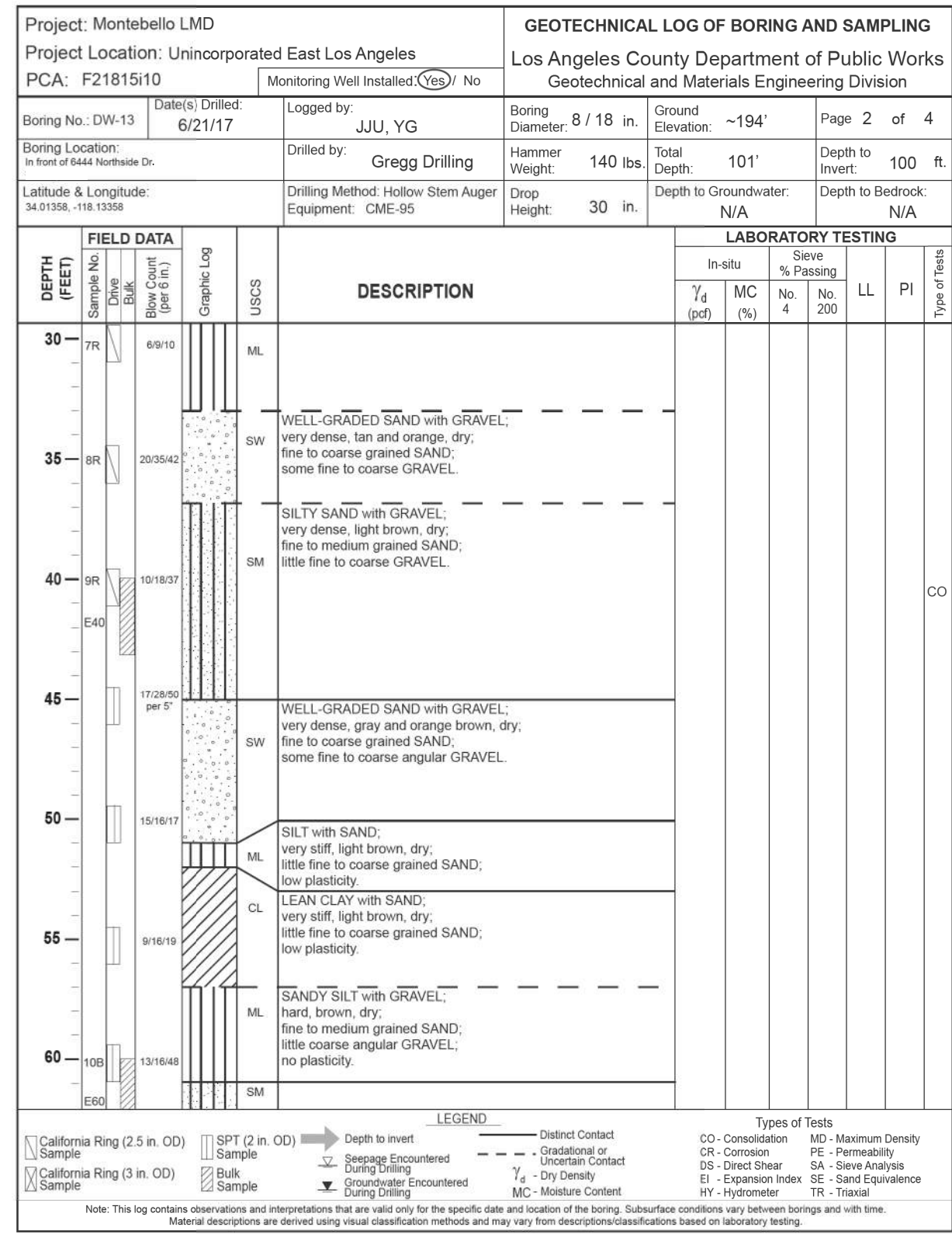
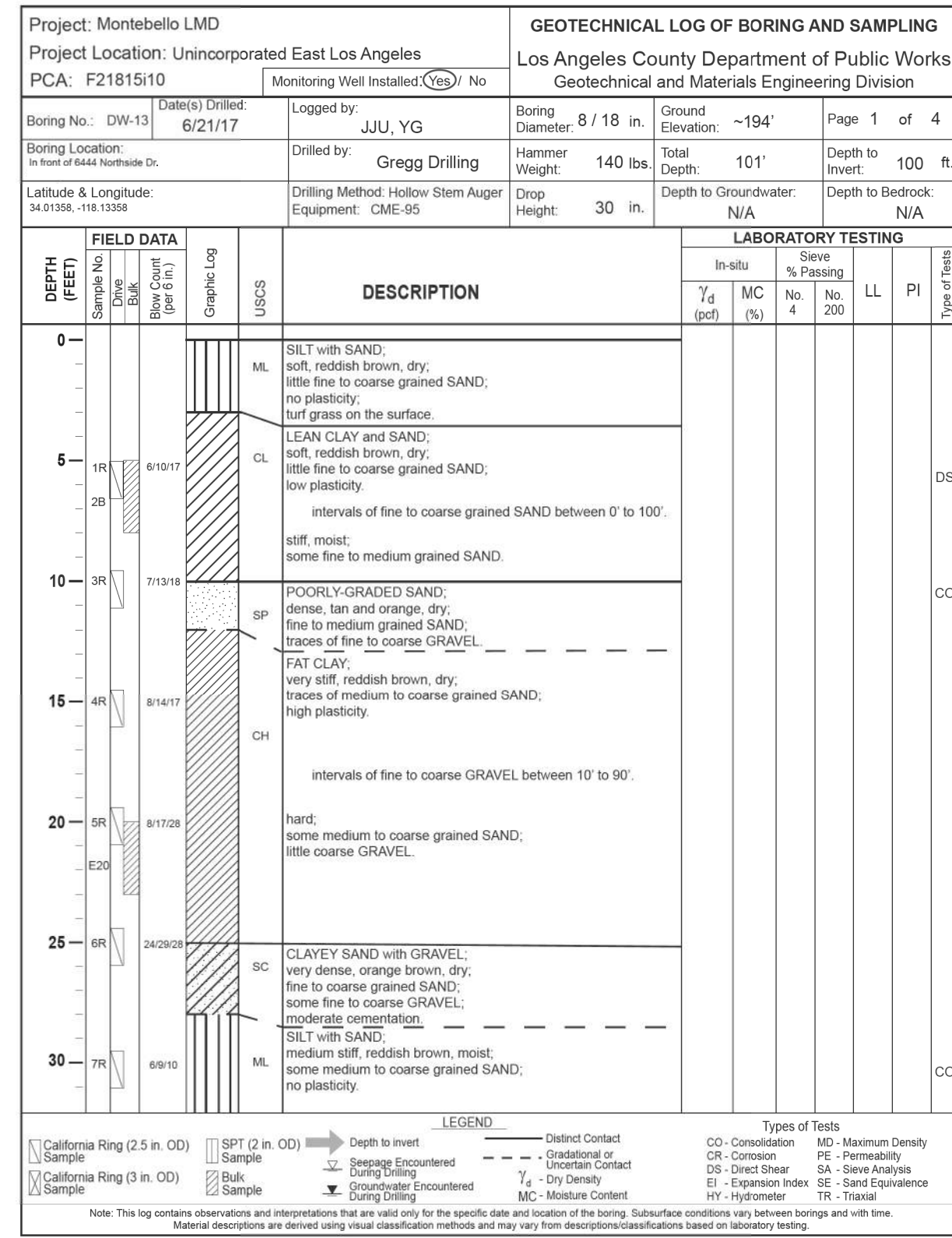
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CHECKER
DESIGNER: C. RAVE
DRAFTER: C. RAVE

DATE	MK	DESCRIPTION

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
LOG OF BORINGS
PROJECT ID NO. WMU000010


3/27/18
PROJECT ENGINEER: DATE

LACFD INDEX NO. 116-D27 SHEET 24 OF 26



DESIGNER: C. RAVE
 DRAFTER: C. RAVE
 CHECKER:
 CADD PROJECT FILE NAME:

DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT
LOG OF BORINGS
PROJECT ID NO. WMU000010

PROJECT ENGINEER	DATE	LACFD INDEX NO. 116-D27	SHEET 25 OF 26
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APPLICABLE CODES AND STANDARDS:

ALL CONSTRUCTION SHALL COMPLY WITH LATEST APPROVED CODES LISTED BELOW AND ALL APPLICABLE CODES, STATUTES, REGULATIONS, ORDINANCES, ETC. CURRENTLY IN FORCE AND THROUGHOUT THE DURATION OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

2017 LOS ANGELES COUNTY ELECTRICAL CODE BASED ON THE 2016 CEC (CALIFORNIA ELECTRICAL CODE) AND 2014 NEC (NATIONAL ELECTRICAL CODE).

SPPWC (STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION), 2012 EDITION

GENERAL NOTES:

A. NEW ELECTRICAL SERVICE(S) WILL BE APPLIED AND PAID FOR BY THE AGENCY PRIOR TO THE STARTING OF THE PROJECT. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATION & CONNECTION WORK WITH SOUTHERN CALIFORNIA EDISON (S.C.E.) SERVICE PLANNER. FIELD VERIFY LOCATION(S) OF THE NEW ELECTRICAL METER SERVICE PEDESTAL(S). OBTAIN CONSTRUCTION MAP AND ELECTRICAL INSTALLATION REQUIREMENTS FROM S.C.E. SERVICE PLANNER PRIOR TO STARTING OF ANY ELECTRICAL WORK. NOTIFY S.C.E. FOR INSPECTION AND APPROVAL 48 HRS. IN ADVANCE. SEE SSPWC SPECIFICATION SECTION 701-14 "SERVICES".

S.C.E POINT OF CONTACT FOR ELECTRICAL SERVICE PEDESTAL A & B:

CHRIS LONG
1924 E. CASHDAN ST.
COMPTON, CA 90220
OFFICE: (310) 608-5042

S.C.E POINT OF CONTACT FOR ELECTRICAL SERVICE PEDESTAL C:

HERIBERTO "EDDIE" GUERRERO
1000 POTRERO GRANDE DRIVE
MONTEBELLO, CA 91755
OFFICE: (323) 889-5517; CELL: (323) 219-0761

B. WORK UNDER THIS CONTRACT SHALL INCLUDE, BUT NOT TO BE LIMITED TO, FURNISHING, INSTALLING AND CONNECTION OF ALL ELECTRICAL EQUIPMENT AND TESTING OF ALL SYSTEMS AND SUB-SYSTEMS WITHIN THE SCOPE OF WORK. BEFORE ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL DEMONSTRATE, IN THE PRESENCE OF THE ENGINEER, THAT ALL PORTIONS OF THE ELECTRICAL WORK ARE OPERATING PROPERLY PER MANUFACTURER'S SPECIFICATION.

C. COORDINATE ALL WORK WITH ARCHITECTURAL, CIVIL, MECHANICAL AND LANDSCAPING PLANS.

D. ALL ITEMS ARE NEW.

E. CONDUCTORS: ALL SHALL BE COPPER, RATED 600V, INSULATION TYPE XHHW OR THWN-2, 90'.

F. CONDUITS: EXPOSED OUTDOOR CONDUITS SHALL BE RIGID GALVANIZED STEEL (RGS), EXTERIOR UNDERGROUND CONDUITS SHALL PVC SCHD 80 (STRAIGHT RUNS) AND PVC SCHD80 (SWEEPS). SEE ELECTRICAL SITE PLAN FOR CONDUIT SIZE. ALL CONDUIT RUNS SHALL HAVE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC.

SHEET INDEX

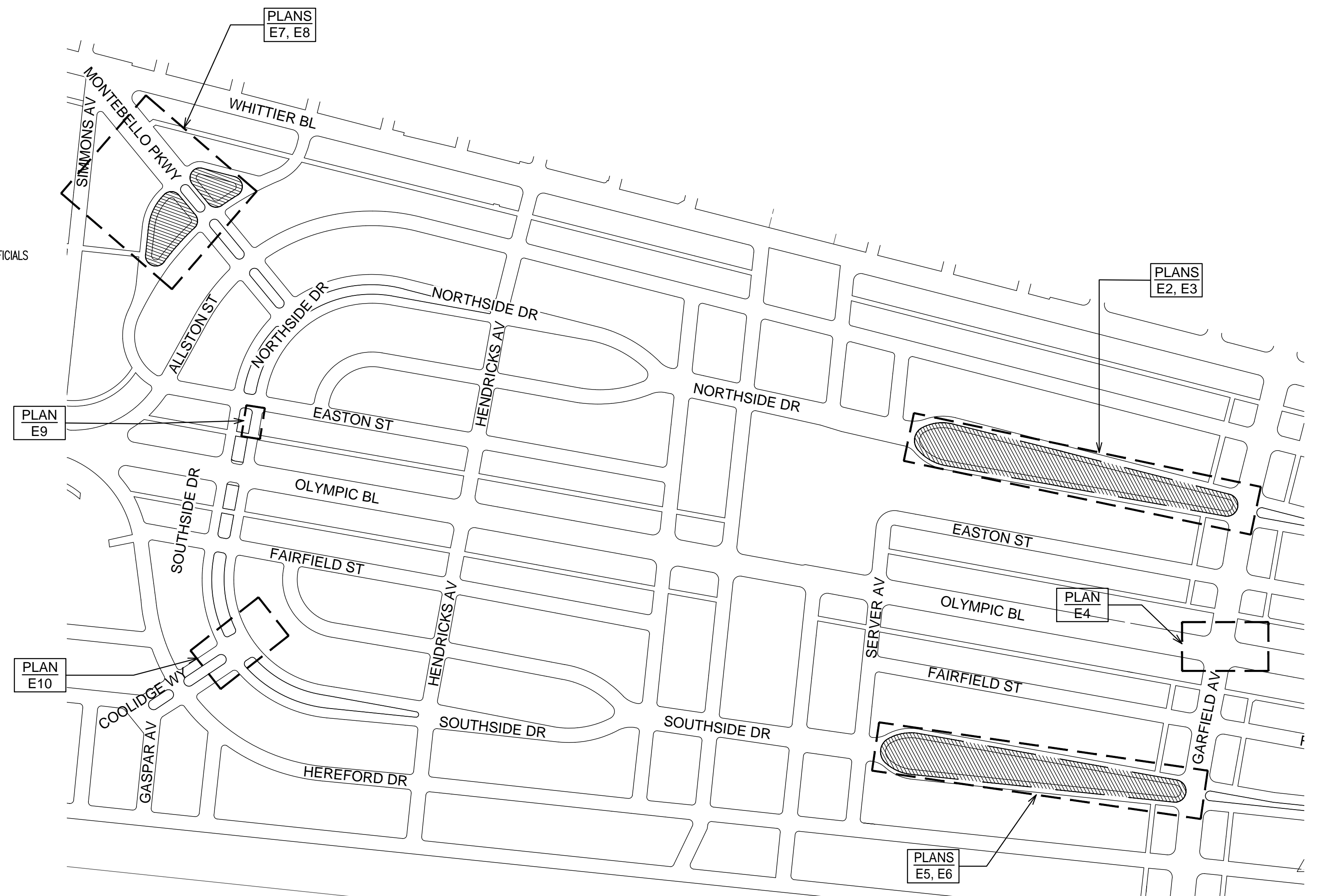
SHT. No.	PLAN EE	ELECTRICAL PLANS
1	E1	GENERAL NOTES, SYMBOLS, SHEET INDEX
2	E2	SITE POWER PLAN (NORTHSIDE DR & GARFIELD AVE)
3	E3	ENLARGED SITE POWER PLAN (NORTHSIDE DR & GARFIELD AVE)
4	E4	SITE POWER PLAN (OLYMPIC BLVD & GARFIELD AVE)
5	E5	SITE POWER PLAN (SOUTHSIDE DR & GARFIELD AVE)
6	E6	ENLARGED SITE POWER PLAN (SOUTHSIDE DR & GARFIELD AVE)
7	E7	SITE POWER PLAN (MONTEBELLO PARKWAY & LEONARD AVE)
8	E8	ENLARGED SITE POWER PLAN (MONTEBELLO PARKWAY & LEONARD AVE)
9	E9	SITE POWER PLAN (EASTON ST & NORTHSIDE DR)
10	E10	SITE POWER PLAN (SOUTHSIDE DR & COOLIDGE WAY)
11	E11	ONE-LINE DIAGRAM, NOTES, PANEL SCHEDULES
12	E12	TELEMETRY & PLC BLOCK DIAGRAMS
13	E13	DETAILS
14	E14	DETAILS

ELECTRICAL SYMBOLS LIST:

- ELECTRICAL SERVICE PEDESTAL ON CONCRETE FOOTING.
- UNDERGROUND CONDUIT
- CALL OUT NOTE
- 17"x30"x15" TRAFFIC RATED PULL BOX WITH BOLT DOWN COVER, INSTALL PER S.C.E REQUIREMENTS.
- 10"x17"x12" TRAFFIC RATED PULL BOX WITH BOLT DOWN COVER, SEE DETAIL 4 ON PLAN E13.
- CAPPED CONDUIT
- LIGHT FIXTURE TYPE "A"
- MOTOR, 480V-3Ø, HP RATING AS INDICATED
- FUSED DISCONNECT SWITCH 240V-2P, HEAVY DUTY. 30-AMPERE FRAME, 20-AMPERE TRIP.
- CONDUIT TURNED DOWN
- CONDUIT TURNED UP
- FEEDER OR BRANCH CIRCUIT CALL OUT
- ANTENNA (POLE MOUNTED)
- ANTENNA (CABINET MOUNTED)
- IRRIGATION CONTROLLER PEDESTAL

ABBREVIATIONS LIST (NOT INCLUDED WITHIN SPPWC OR SSPWC):

- AFF ABOVE FINISH FLOOR
- AFG ABOVE FINISH GRADE
- AWG AMERICAN WIRE GAUGE
- A AMPERE
- AIC AMPERE INTERRUPTING CAPACITY (SYMMETRICAL)
- AF AMPERE FRAME
- AT AMPERE TRIP
- B.C. BARE COPPER
- B.G. BELOW GRADE
- BKR BREAKER
- CCTV CLOSED-CIRCUIT TELEVISION
- CKT CIRCUIT
- CB CIRCUIT BREAKER
- C CONDUIT
- CLG CEILING
- CO CONDUIT ONLY
- COAX COAXIAL
- C.W.P. COLD WATER PIPE
- D DEEP, DEPTH
- DIST. BD. DISTRIBUTION BOARD
- DIA DIAMETER
- DS DUCT SMOKE DETECTOR
- EA EACH
- E.G. EQUIPMENT GROUND
- EMO ELECTRIC MOTOR OPERATOR
- EMT ELECTRICAL METALLIC TUBING
- EQUIP EQUIPMENT
- (E) EXISTING
- FACP FIRE ALARM CONTROL PANEL
- FLA FULL LOAD AMPS
- FT FEET
- G GROUND
- GA GAUGE
- G.D. GARBAGE DISPOSAL
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- GFI GROUND FAULT INTERRUPTER
- GND GROUND
- H HIGH, HEIGHT
- HP HORSE POWER
- HH HAND HOLE
- HMI HUMAN MACHINE INTERFACE
- I.G. ISOLATED GROUND
- I/O INPUT/OUTPUT
- I.C.B.O. INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
- JB JUNCTION BOX
- KVA KILO-VOLT AMPERES
- KW KILO-WATT
- KWH KILO-WATT-HOUR
- LADWP L.A. DEPT OF WATER & POWER
- LB POUND
- LCL LONG CONTINUOUS LOAD
- LCP LIGHTING CONTROL PANEL
- L LENGTH
- LB POUND
- LTG LIGHTING
- MCR MAIN COMPUTER ROOM
- MCB MAIN CIRCUIT BREAKER
- MCP MOTOR CIRCUIT PROTECTOR
- MH MANHOLE
- MLO MAIN LUGS ONLY
- MT MOUNT
- MTD MOUNTED
- (N) NEW
- N.I.C. NOT IN CONTRACT
- Ø PHASE OR DIAMETER
- P POLE
- PA PUBLIC ADDRESS
- PLC PROGRAM LOGIC CONTROLLER
- PNL PANEL
- PVC POLYVINYL CHLORIDE
- PW HQ PUBLIC WORKS HEADQUARTERS
- RGS RIGID GALVANIZED STEEL
- S.C.E. SOUTHERN CALIFORNIA EDISON
- SCHD SCHEDULE
- SHT SHEET
- S/L STREET LIGHT
- S.S. STAINLESS STEEL
- SWBD SWITCHBOARD
- SWGR SWITCHGEAR
- TYP TYPICAL
- U.G. UNDERGROUND
- U.N.O. UNLESS NOTED OTHERWISE
- UPS UNINTERRUPTIBLE POWER SUPPLY
- V VOLTS
- VA VOLT AMPERES
- VD VOLTAGE DROP
- VDC VOLTAGE DIRECT CURRENT
- WP WEATHERPROOF
- W WIRE, WIDE, WIDTH
- XFR TRANSFER
- XFMR TRANSFORMER
- Ø DIAMETER



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 REVIEWED BY _____
 CHECKER _____
 DESIGNER _____
 DRAFTER _____

DATE	MK	DESCRIPTION
REVISIONS		



LOS ANGELES COUNTY PUBLIC WORKS

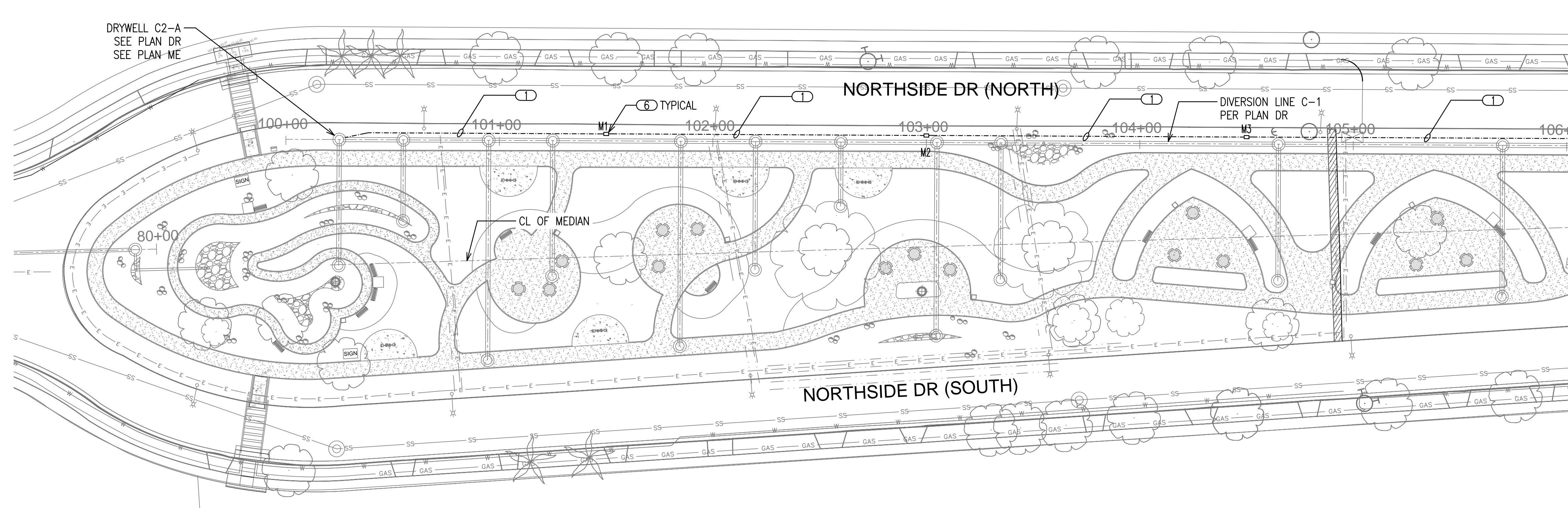
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

GENERAL NOTES, SYMBOLS, SHEET INDEX

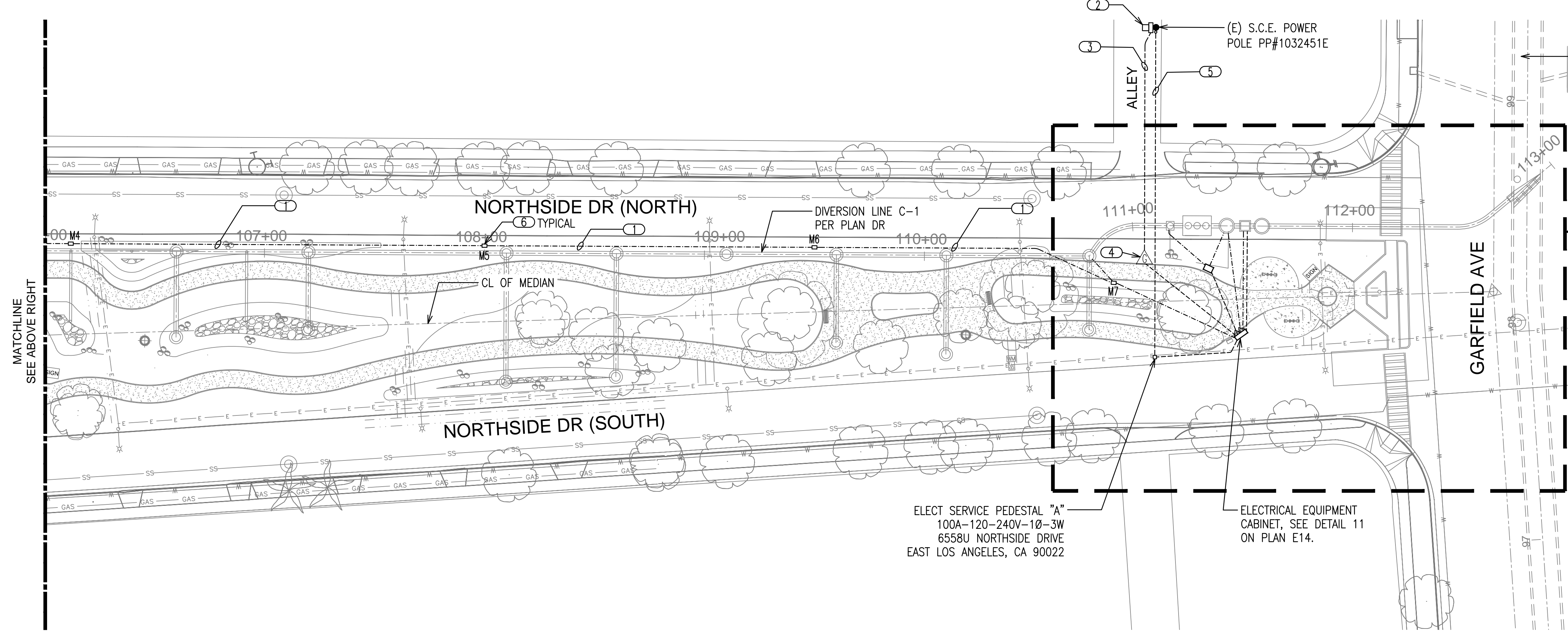
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E1

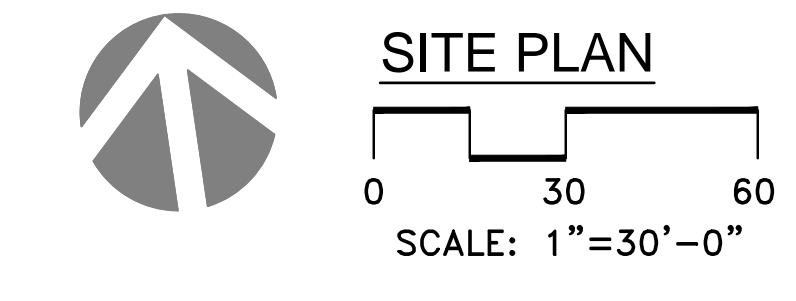
LACFCD INDEX NO. 116-D27 SHEET 1 OF 14



- CONSTRUCTION NOTES:**
- ① 2" C WITH PRESSURE TRANSDUCER SIGNAL CABLE TO PLC INSIDE ELECTRICAL CABINET, 24" B.G.
 - ② REMOVE POLE MOUNTED KWH METER AND CIRCUIT BREAKER ENCLOSURE. REMOVE 1-1/2" PVC SERVICE CONDUIT RISER. COORDINATE WITH S.C.E. PLANNER.
 - ③ REMOVE UNDERGROUND BRANCH CIRCUIT CONDUCTORS FROM IRRIGATION PEDESTAL "G" BACK TO S.C.E. POWER POLE. ABANDON UNDERGROUND CONDUIT IN PLACE.
 - ④ EXISTING IRRIGATION CONTROLLER "G" ENCLOSURE TO REMAIN IN PLACE.
 - ⑤ 3" C WITH PULL TAPE. 30" B.G. PER S.C.E REQUIREMENTS.
 - ⑥ PULL BOX, SEE DETAIL 4 ON PLAN E13.



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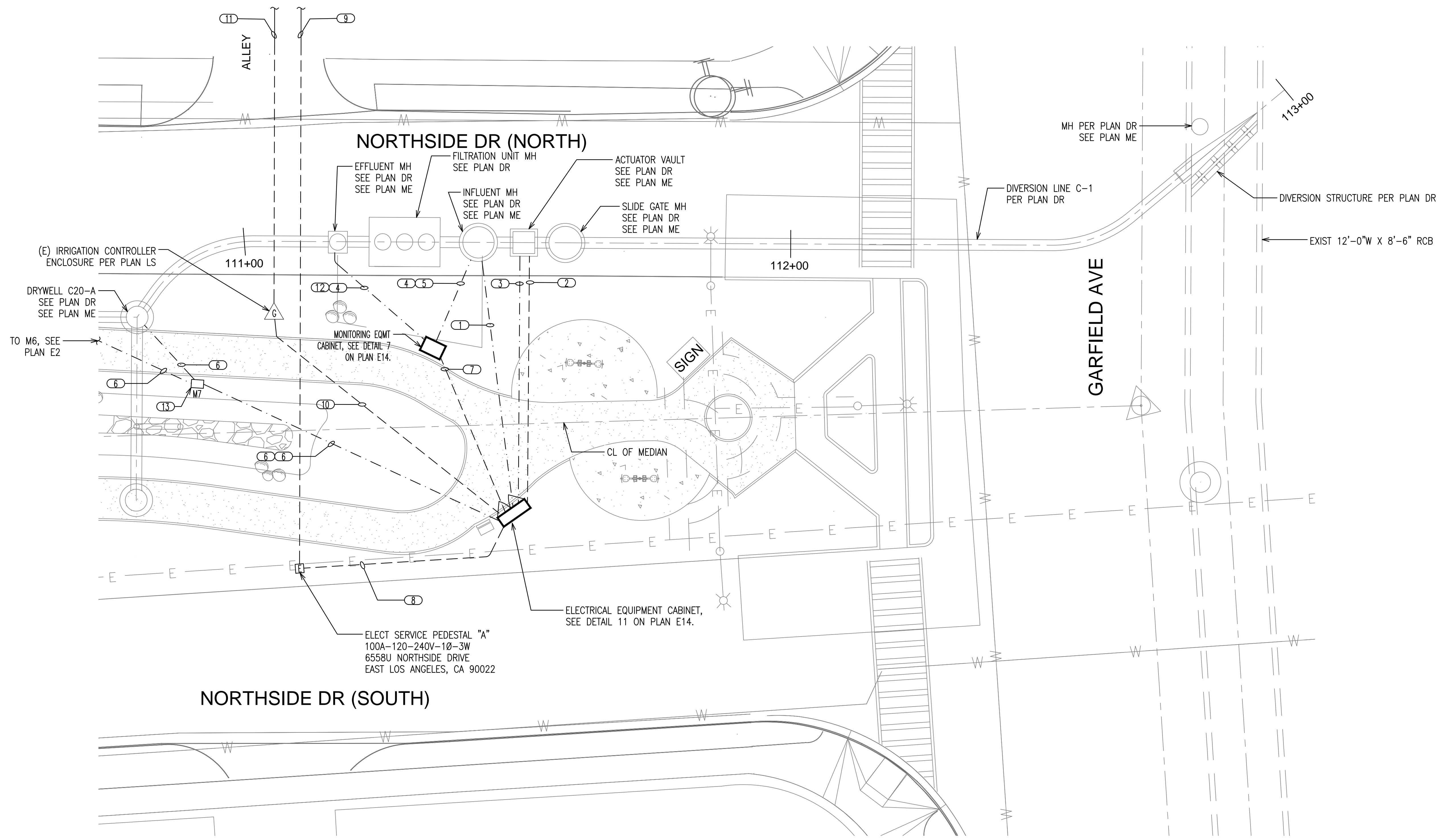


DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 NORTHSIDE DR AND GARFIELD AVE
 SITE POWER PLAN
 PROJECT ID NO. WMU0000010

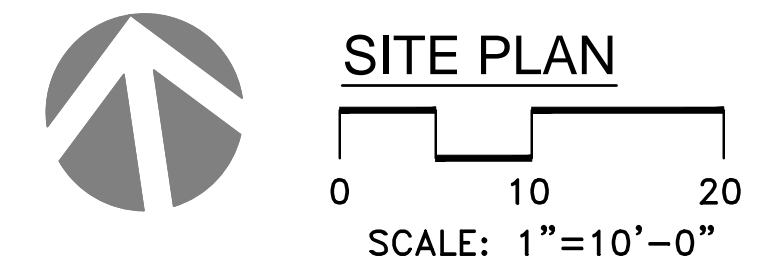
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 LACFCD INDEX NO. 116-D27 SHEET 2 OF 14



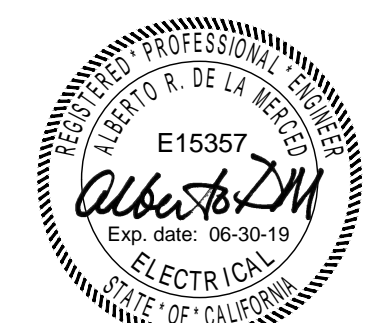
- CONSTRUCTION NOTES:**
- ① 2" C WITH FLO-DAR METER SIGNAL CABLE, 24" B.G. TO FLO-DAR DATA LOGGER LOCATED INSIDE THE ELECTRICAL CABINET.
 - ② 2" C-2#8 & 1#8G (EMO POWER), 24" B.G. TO PANEL BOARD "A1" LOCATED INSIDE THE ELECTRICAL CABINET.
 - ③ 2" C WITH OPEN-CLOSE EMO CONTROL CABLES TO RCS CONTROLLER INSIDE THE ELECTRICAL CABINET, 24" B.G.
 - ④ 2" C WITH A SUCTION TUBE TO MONITORING EQUIPMENT CABINET, 24" B.G.
 - ⑤ 2" C WITH FLOW SENSOR SIGNAL CABLE TO MONITORING EQUIPMENT CABINET, 24" B.G.
 - ⑥ 2" C WITH PRESSURE TRANSDUCER SIGNAL CABLE TO PLC INSIDE ELECTRICAL CABINET, 24" B.G.
 - ⑦ 3/4" C-6#10 & 1#10G, 24" B.G.
 - ⑧ 2" C-3#6 & 1#6G, 24" B.G.
 - ⑨ 3" C WITH PULL TAPE, 30" B.G., TO (E) S.C.E. POWER POLE PP#1032451E. STUB-UP CONDUIT AT BASE OF POWER POLE, INSTALL PER S.C.E. REQUIREMENTS
 - ⑩ 2" C-2#10 & 1#10G, 24" B.G.
 - ⑪ REMOVE UNDERGROUND BRANCH CIRCUIT CONDUCTORS FROM IRRIGATION PEDESTAL "G" BACK TO S.C.E. POWER POLE PP#1032451E. ABANDON UNDERGROUND CONDUIT IN PLACE.
 - ⑫ 2" C SPARE, 24" B.G.
 - ⑬ PULL BOX, SEE DETAIL 4 ON PLAN E13.

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NORTHSIDE DR (SOUTH)



DATE	MK	DESCRIPTION



05/29/19

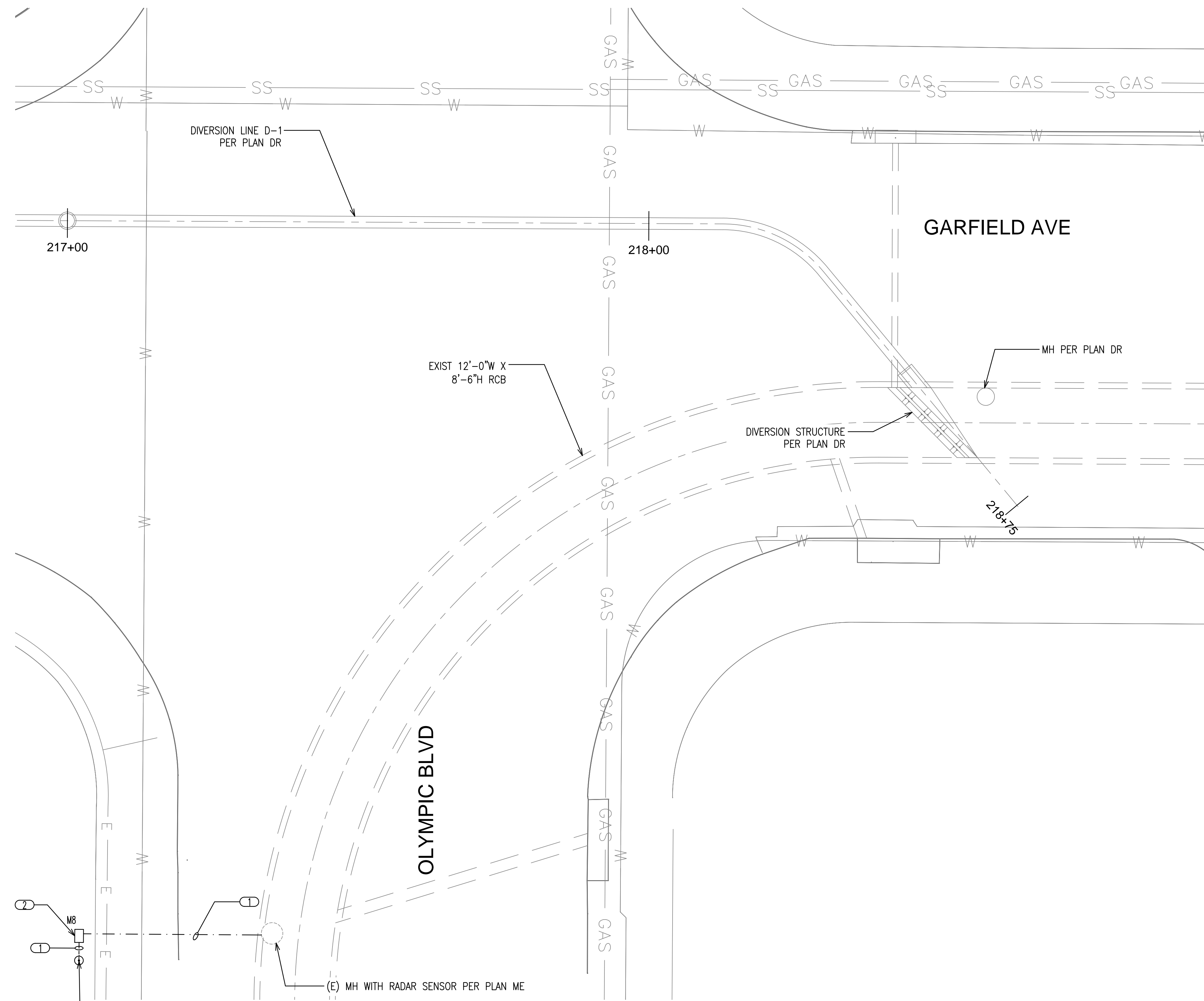
LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 NORTHSIDE DR AND GARFIELD AVE
 ENLARGED SITE POWER PLAN
 PROJECT ID NO. WMU0000010

E3

LACFCD INDEX NO. 116-D27 SHEET 3 OF 14

CONSTRUCTION NOTES:

- ⊕ 2" C WITH FLOW SENSOR SIGNAL CABLE TO DATA LOGGER INSIDE POLE MOUNTED ENCLOSURE, 24" B.G.
- ⊕ PULL BOX, SEE DETAIL 4 ON PLAN E13.



SOLAR POLE DATA
LOGGER ENCLOSURE, SEE
SOLAR POLE DETAIL 6 ON
PLAN E13.

(E) MH WITH RADAR SENSOR PER PLAN ME

OLYMPIC BLVD

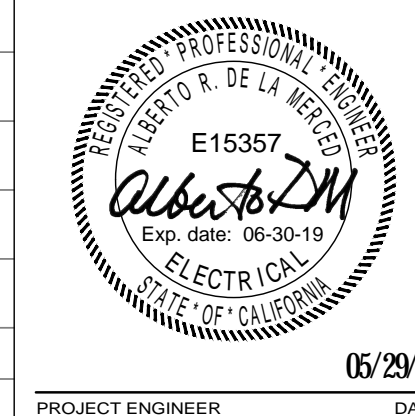
GARFIELD AVE



SITE PLAN
0 10 20
SCALE: 1"=10'-0"

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 CAD PROJECT FILE NAME
 REVIEWED BY
 DATE

DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS

**EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT
OLYMPIC BLVD AND GARFIELD AVE
SITE POWER PLAN**

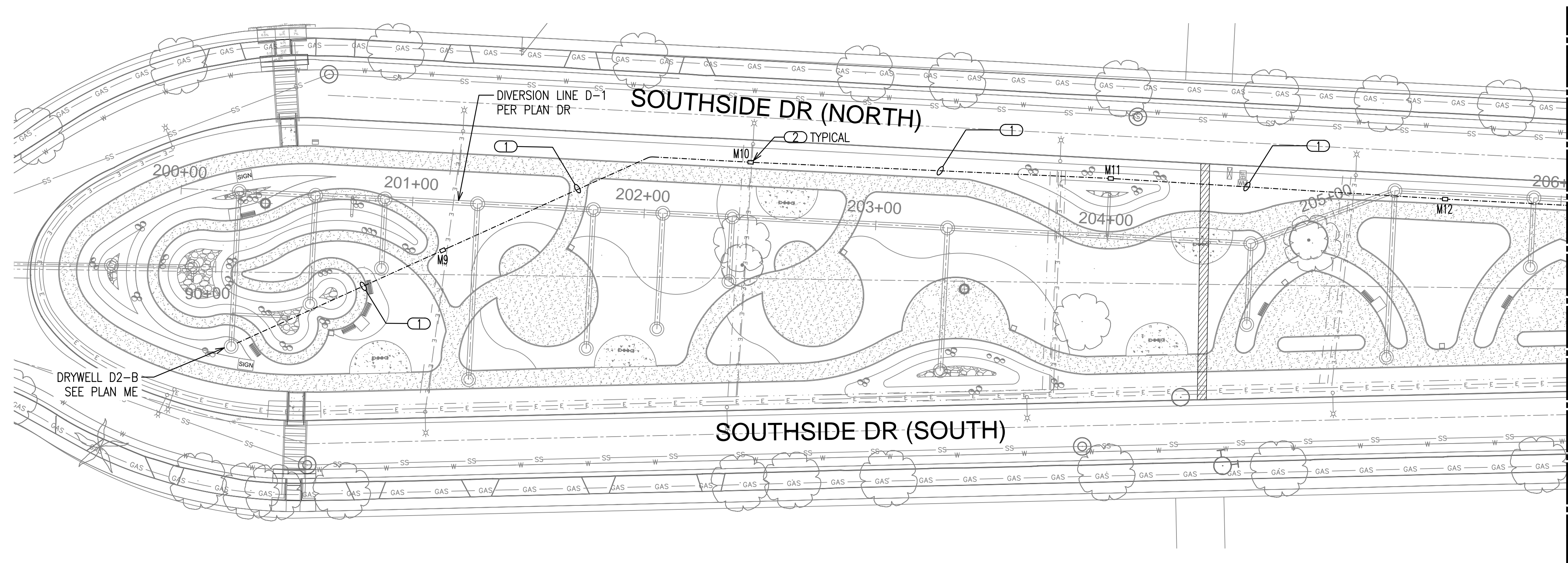
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LACFCD INDEX NO. 116-D27 SHEET 4 OF 14

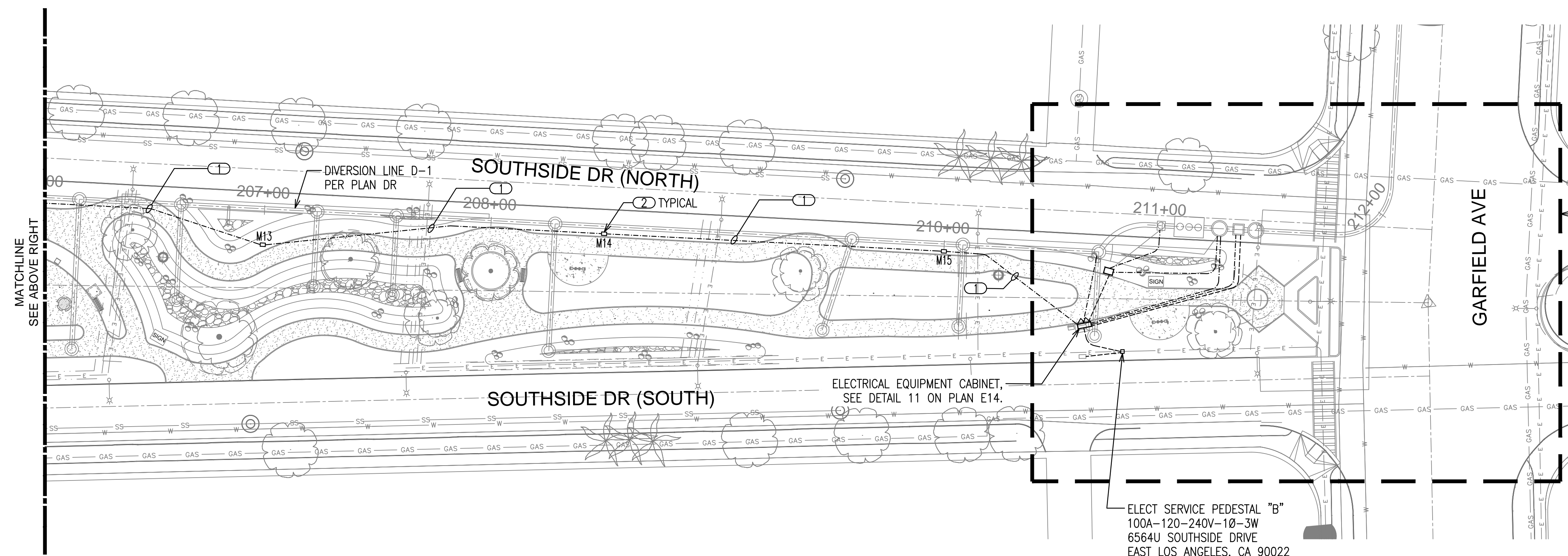
E4

CONSTRUCTION NOTES:

- ⊖ 2" C WITH PRESSURE TRANSDUCER SIGNAL CABLE TO PLC INSIDE ELECTRICAL CABINET, 24" B.G.
- ⊗ PULL BOX, SEE DETAIL 4 ON PLAN E13.



MATCHLINE
SEE BELOW LEFT



SEE ENLARGED PLAN ON PLAN E6.

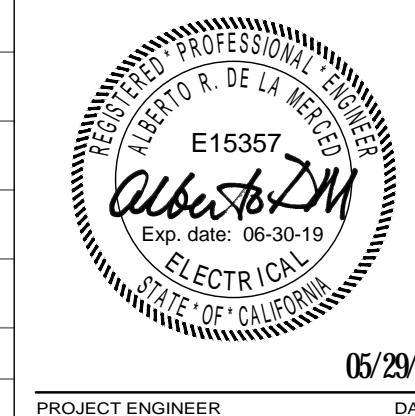
ELECT SERVICE PEDESTAL "B"
100A-120-240V-1Ø-3W
6564U SOUTHSIDE DRIVE
EAST LOS ANGELES, CA 90022



SITE PLAN
0 30 60
SCALE: 1"=30'-0"

DATE
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 CAD PROJECT FILE NAME
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 DESIGNER ADM
 DRAFTER ADM

DATE	MK	DESCRIPTION
REVISIONS		



05/29/19
PROJECT ENGINEER DATE

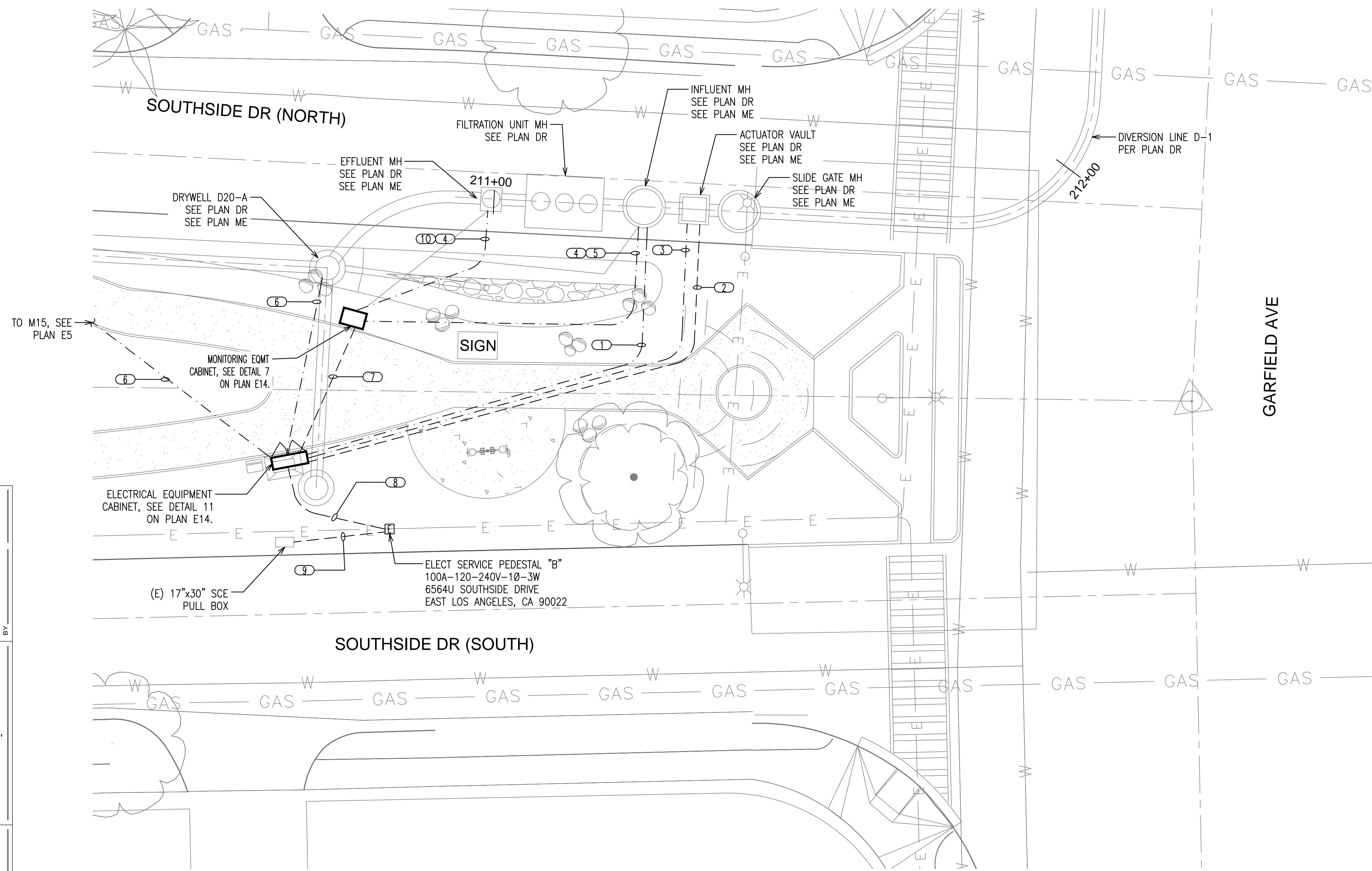
LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 SOUTHSIDE DR AND GARFIELD AVE
 SITE POWER PLAN
 PROJECT ID NO. WMU0000010

E5

LACFCD INDEX NO. 116-D27 SHEET 5 OF 14

CONSTRUCTION NOTES:

- ① 2" C WITH FLO-DAR METER SIGNAL CABLE, 24" B.G. TO FLO-DAR DATA LOGGER LOCATED INSIDE THE ELECTRICAL CABINET.
- ② 2" C-2#8 & 1#8G (EMO POWER), 24" B.G. TO PANEL BOARD "A1" LOCATED INSIDE THE ELECTRICAL CABINET.
- ③ 2" C WITH OPEN-CLOSE EMO CONTROL CABLES TO RCS CONTROLLER INSIDE THE ELECTRICAL CABINET, 24" B.G.
- ④ 2" C WITH A SUCTION TUBE TO MONITORING EQUIPMENT CABINET, 24" B.G.
- ⑤ 2" C WITH FLOW SENSOR SIGNAL CABLE TO MONITORING EQUIPMENT CABINET, 24" B.G.
- ⑥ 2" C WITH PRESSURE TRANSDUCER SIGNAL CABLE TO PLC INSIDE ELECTRICAL CABINET, 24" B.G.
- ⑦ 3/4" C-6#10 & 1#10G, 24" B.G.
- ⑧ 2" C-3#6 & 1#6G, 24" B.G.
- ⑨ 3" C WITH PULL TAPE, 30" B.G. INSTALL PER S.C.E. REQUIREMENTS.
- ⑩ 2" C SPARE, 24" B.G.

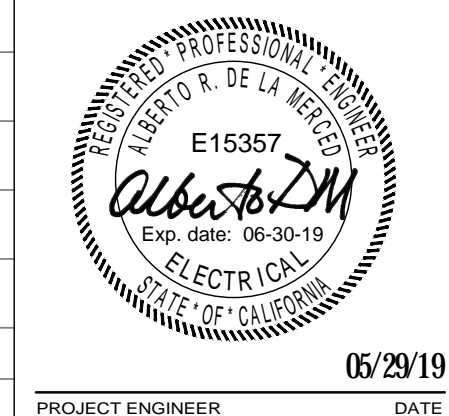


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 CAD PROJECT FILE NAME
 REVIEWED BY
 DATE



SITE PLAN
 0 10 20
 SCALE: 1"=10'-0"

DATE	MK	DESCRIPTION

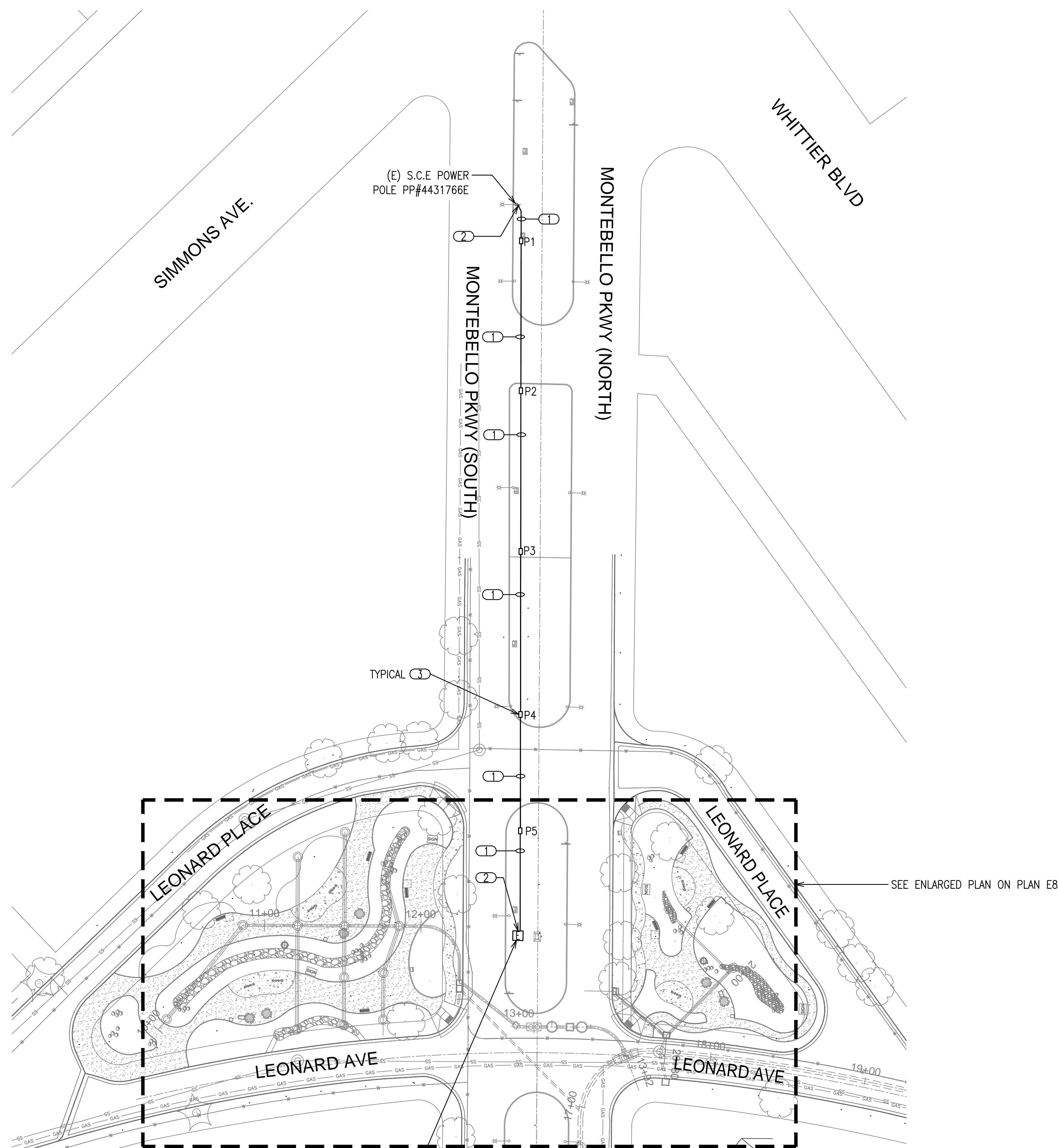


LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 SOUTHSIDE DR AND GARFIELD AVE
 ENLARGED SITE POWER PLAN
 PROJECT ID NO. WMU0000010

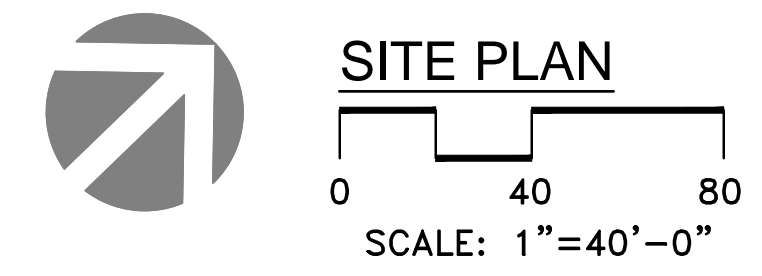
E6

CONSTRUCTION NOTES:

- ① 3" DIAMETER UTILITY UNDERGROUND SERVICE CONDUIT WITH PULL ROPE, 30" MINIMUM COVER. INSTALL PER S.C.E. REQUIREMENTS. COORDINATE WITH S.C.E SERVICE PLANNER FOR EXACT LOCATION.
- ② STUB-UP CONDUITS INSIDE SERVICE PEDESTAL AND AT BASE OF POWER POLE.
- ③ 17"x30"x15" PRE-CAST CONCRETE PULL BOX WITH BOLT DOWN COVER PER S.C.E. SPECIFICATIONS. INSTALL PER S.C.E. REQUIREMENTS.

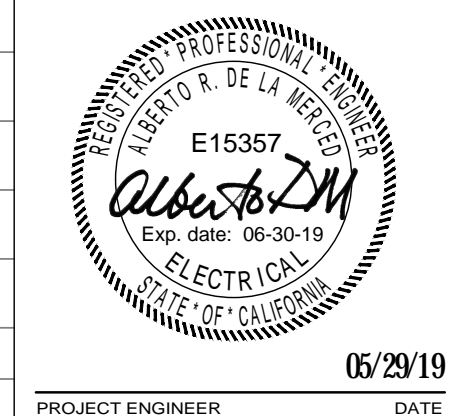


ELECT SERVICE PEDESTAL "C"
 100A-120-240V-1Ø-3W
 5850U MONTEBELLO PKWY
 EAST LOS ANGELES, CA 90022



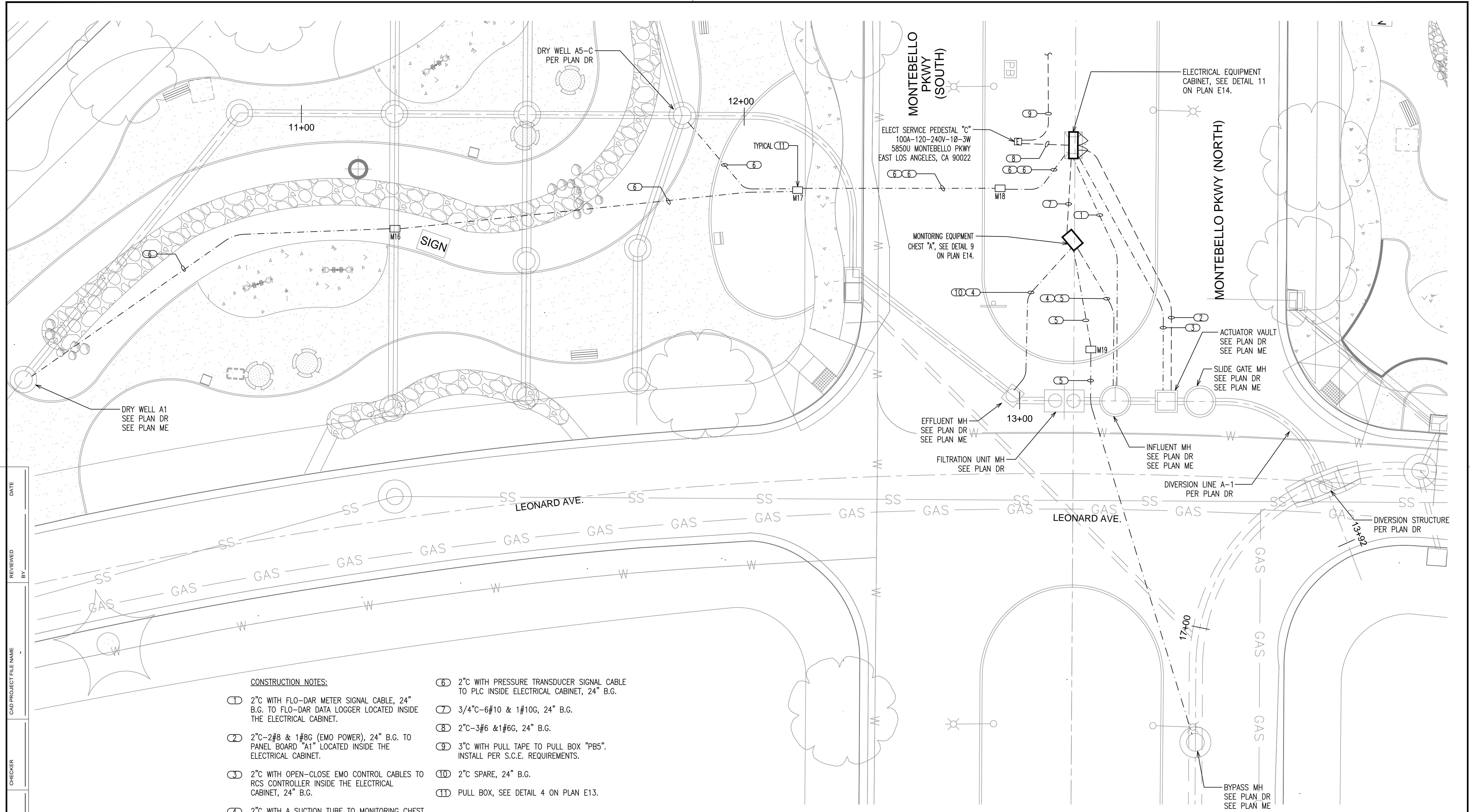
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 DATE

DATE	MK	DESCRIPTION

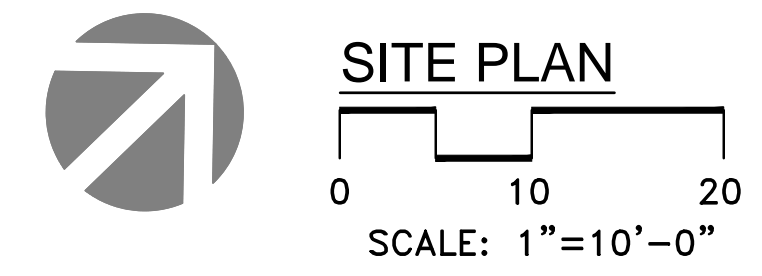


LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 MONTEBELLO PARKWAY AND LEONARD PLACE
 SITE POWER PLAN
 PROJECT ID NO. WMU0000010

E7



- CONSTRUCTION NOTES:**
- ① 2" C WITH FLO-DAR METER SIGNAL CABLE, 24" B.G. TO FLO-DAR DATA LOGGER LOCATED INSIDE THE ELECTRICAL CABINET.
 - ② 2" C-2#8 & 1#8G (EMO POWER), 24" B.G. TO PANEL BOARD "A1" LOCATED INSIDE THE ELECTRICAL CABINET.
 - ③ 2" C WITH OPEN-CLOSE EMO CONTROL CABLES TO RCS CONTROLLER INSIDE THE ELECTRICAL CABINET, 24" B.G.
 - ④ 2" C WITH A SUCTION TUBE TO MONITORING CHEST, 24" B.G.
 - ⑤ 2" C WITH FLOW SENSOR SIGNAL CABLE TO MONITORING CHEST, 24" B.G.
 - ⑥ 2" C WITH PRESSURE TRANSDUCER SIGNAL CABLE TO PLC INSIDE ELECTRICAL CABINET, 24" B.G.
 - ⑦ 3/4" C-6#10 & 1#10G, 24" B.G.
 - ⑧ 2" C-3#6 & 1#6G, 24" B.G.
 - ⑨ 3" C WITH PULL TAPE TO PULL BOX "PB5". INSTALL PER S.C.E. REQUIREMENTS.
 - ⑩ 2" C SPARE, 24" B.G.
 - ⑪ PULL BOX, SEE DETAIL 4 ON PLAN E13.



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 REVIEWED BY _____
 CAD PROJECT FILE NAME _____
 CHECKER _____
 DESIGNER ADM
 DRAFTER ADM

DATE	MK	DESCRIPTION
REVISIONS		

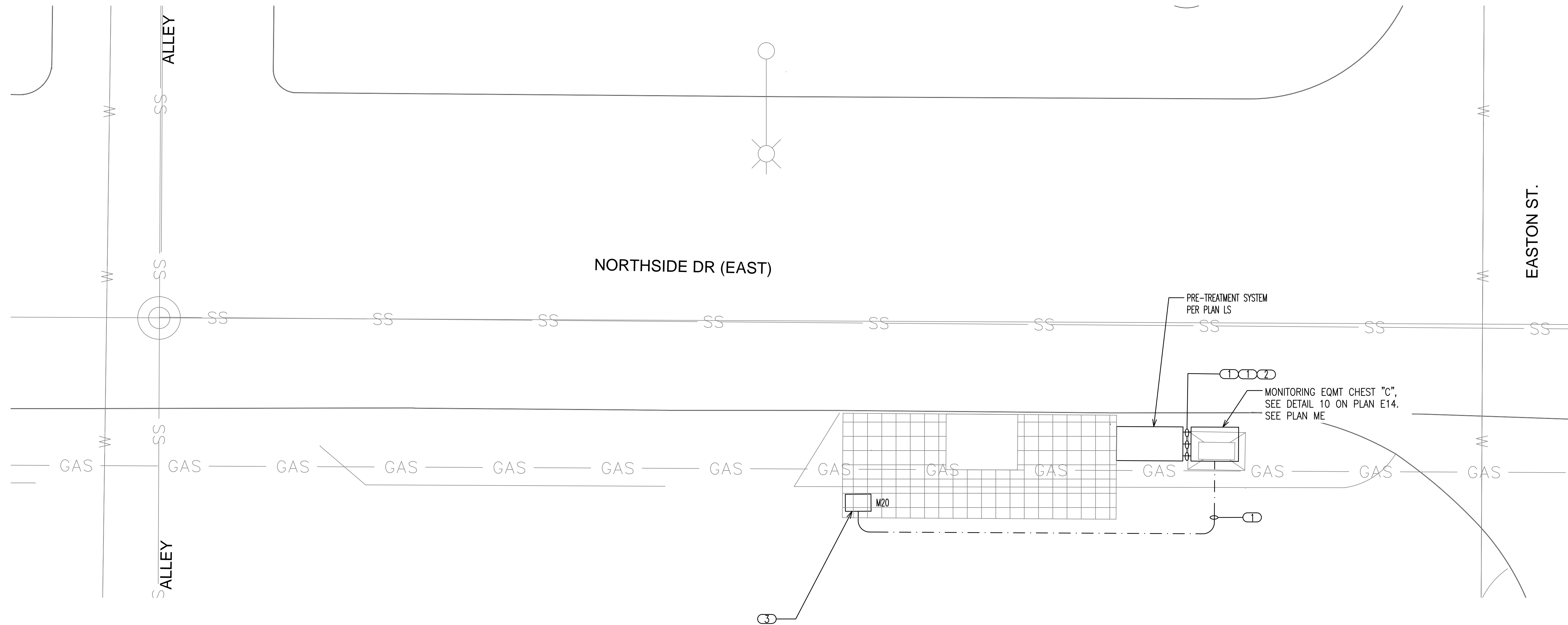
PROJECT ENGINEER
 DATE 05/29/19

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
 MONTEBELLO PARKWAY AND LEONARD PLACE
 ENLARGED SITE POWER PLAN
 PROJECT ID NO. WMU0000010

E8
 LACFCD INDEX NO. 116-D27 SHEET 8 OF 14

CONSTRUCTION NOTES:

- ⊖ 2" C WITH A SUCTION TUBE TO MONITORING CHEST, 24" B.G. IF EXISTING GAS LINE IS IN CONFLICT, THE 2" C MAY BE INSTALLED ABOVE OR BELOW THE GAS LINE. FIELD VERIFY.
- ⊖ 2" C WITH FLOW SENSOR SIGNAL CABLE TO MONITORING CHEST, 24" B.G.
- ⊖ PULL BOX, SEE DETAIL 4 ON PLAN E13.

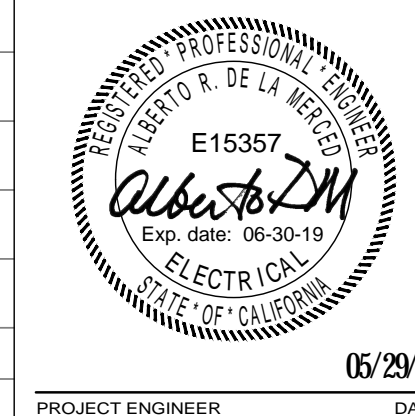


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 DESIGNER ADM
 CHECKER
 CAD PROJECT FILE NAME
 REVIEWED BY
 DATE



SITE PLAN
 0 5 10
 SCALE: 1"=5'-0"

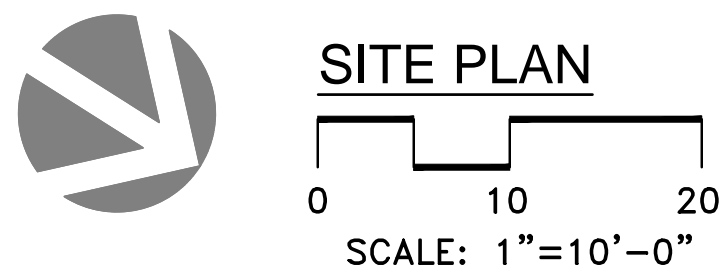
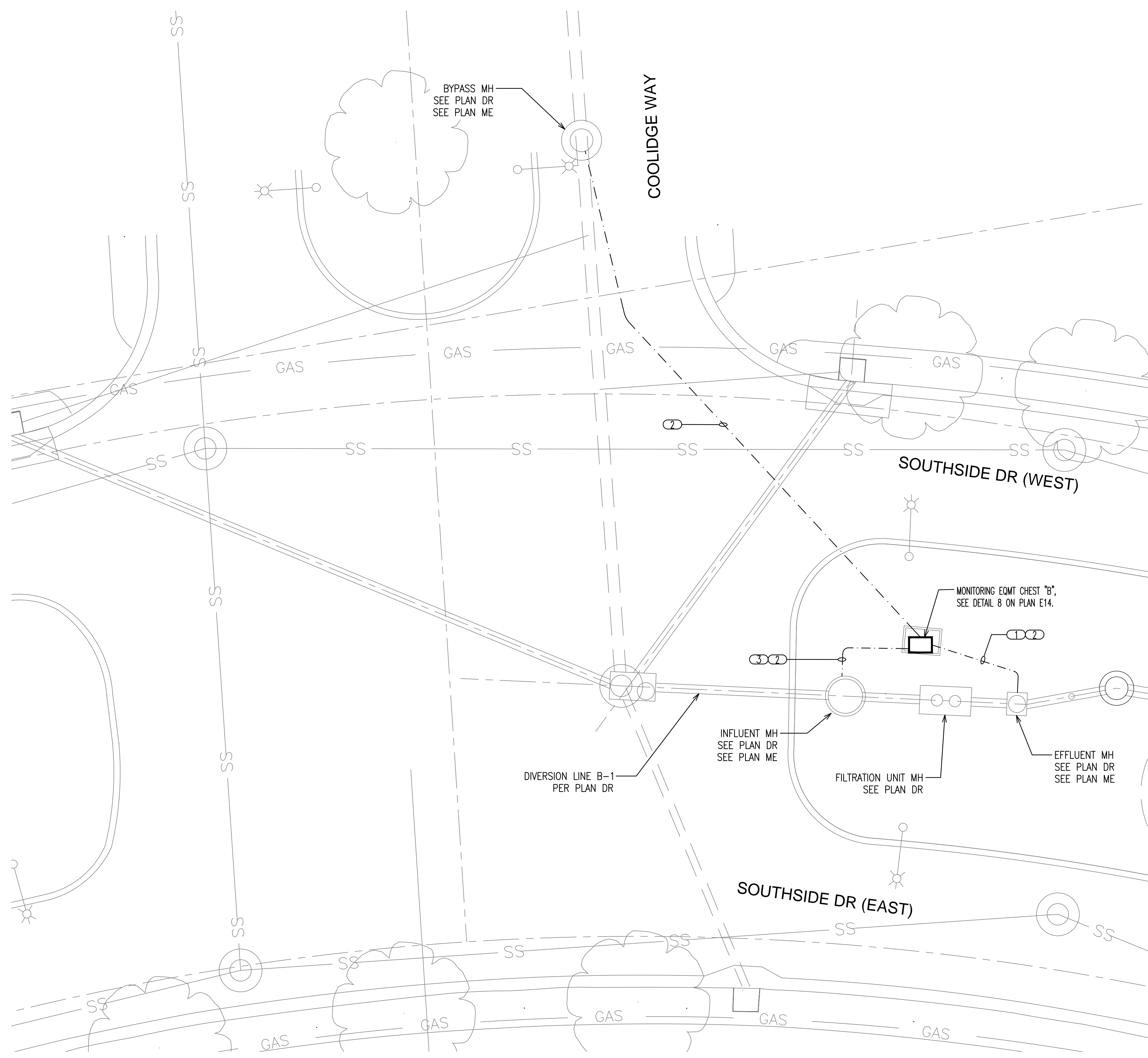
DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 EASTON ST AND NORTHSIDE DR.
 SITE POWER PLAN
 PROJECT ID NO. WMU0000010
 SHEET 9 OF 14

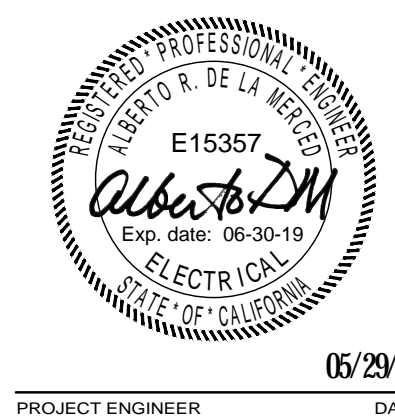
CONSTRUCTION NOTES:

- ⊖ 2" C WITH A SUCTION TUBE TO MONITORING CHEST, 24" B.G.
- ⊗ 2" C WITH FLOW SENSOR SIGNAL CABLE TO MONITORING CHEST, 24" B.G.
- ⊕ 2" C SPARE, 24" B.G.



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 CHECKER ADM
 CAD PROJECT FILE NAME
 REVIEWED BY
 DATE

DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 SOUTHSIDE DR AND COOLIDGE WAY
 SITE POWER PLAN
 PROJECT ID NO. WMU0000010
 SHEET 10 OF 14

E10

CIRCUIT		CKT BKR	PHASES			DESCRIPTION		
No.	TYPE	TRIP POLE	LITE	RECP	MISC	AØ VA	BØ VA	
1	L	20	1			2000		UPS
2	M	20*	2			665		SLIDE GATE ACTUATOR
3	M							
4		20	1					200 IRRIGATION CONTROLLER
5								PROVISION
6	L	20	1			15		INTERIOR CABINET LED LIGHT FIXTURE
7	R	20	1			180		CONVENIENCE GFCI DUPLEX RECEPTACLE
8		20	1					SPARE
9								PROVISION
10								PROVISION
TOTAL CONNECTED VA PHASE						2,680	1,045	
L-LOAD VA =		2,015	L.C.L @ 125% VA =		2,519			
G-LOAD VA =		-	GENERAL LOAD @ 100% VA =		-			
R-LOAD VA =		180	RECEPT. (> 10 KVA @ 50%) VA =		0			
M-LOAD VA =		1,330	RECEPT. (<= 10 KVA @ 100%) VA =		180			
OTHER LOAD VA =		-	MOTOR LOAD @ 100% VA =		1,330			
CONNECTED VA =		3,725	OTHER LOAD @ 100% VA =		200			
LOAD TYPE:			TOTAL DEMAND VA =		4,228.8			
L = (L.C.L.) CONTINUOUS LOAD			DEMAND AMPS =		17.6			
G = GENERAL LOADS								
R = RECEPTACLE LOADS								
M = MOTOR LOADS								

* NEW C.B. SHALL HAVE A LOCK DEVICE TO LOCK C.B. IN THE OPEN POSITION

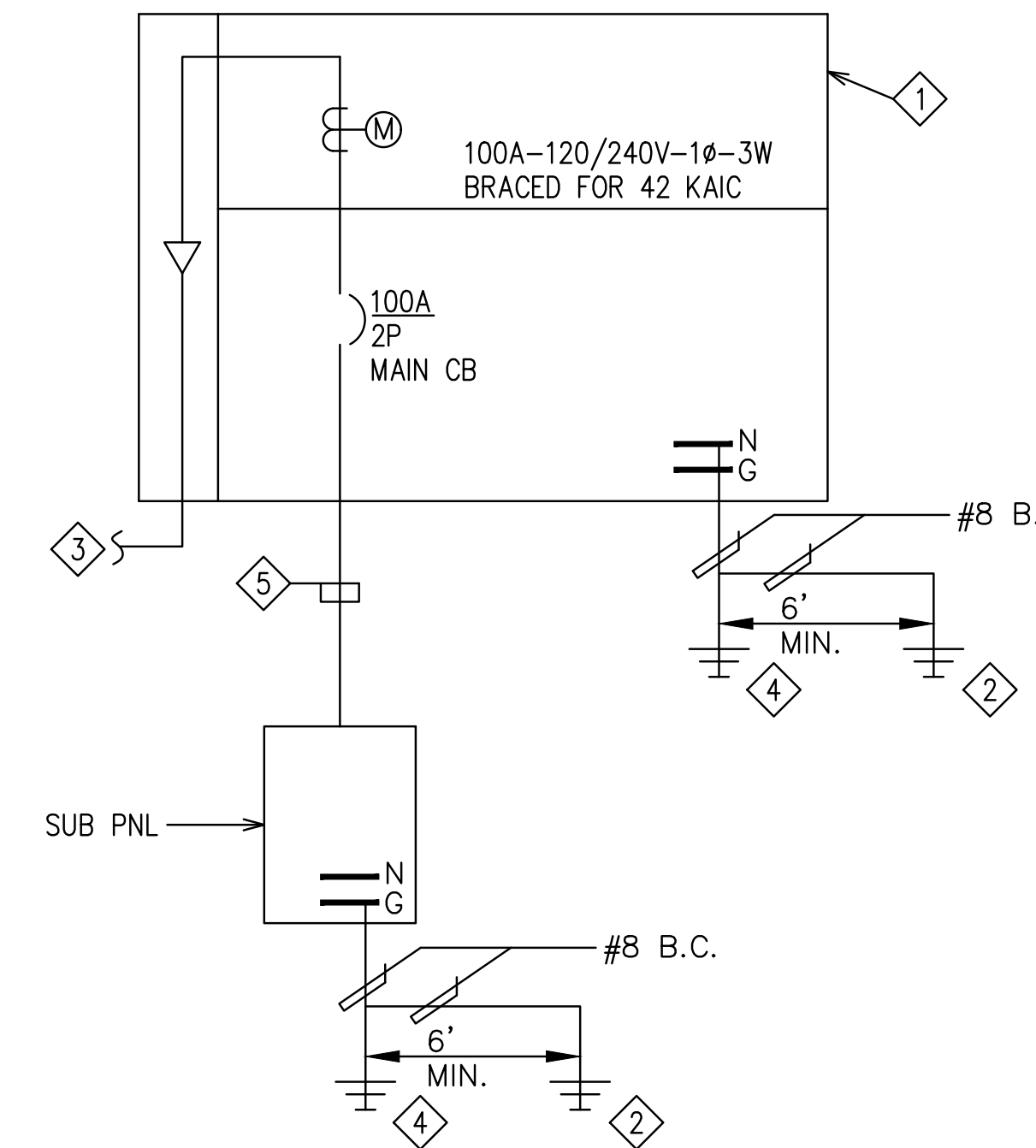
CIRCUIT		CKT BKR	PHASES			DESCRIPTION		
No.	TYPE	TRIP POLE	LITE	RECP	MISC	AØ VA	BØ VA	
1	L	20	1			2000		UPS
2	M	20*	2			665		SLIDE GATE ACTUATOR
3	M							
4								PROVISION
5								PROVISION
6	L	20	1			15		INTERIOR CABINET LED LIGHT FIXTURE
7	R	20	1			180		CONVENIENCE GFCI DUPLEX RECEPTACLE
8		20	1					SPARE
9								PROVISION
10								PROVISION
TOTAL CONNECTED VA PHASE						2,680	845	
L-LOAD VA =		2,015	L.C.L @ 125% VA =		2,519			
G-LOAD VA =		-	GENERAL LOAD @ 100% VA =		-			
R-LOAD VA =		180	RECEPT. (> 10 KVA @ 50%) VA =		0			
M-LOAD VA =		1,330	RECEPT. (<= 10 KVA @ 100%) VA =		180			
OTHER LOAD VA =		-	MOTOR LOAD @ 100% VA =		1,330			
CONNECTED VA =		3,525	OTHER LOAD @ 100% VA =		-			
LOAD TYPE:			TOTAL DEMAND VA =		4,028.8			
L = (L.C.L.) CONTINUOUS LOAD			DEMAND AMPS =		16.8			
G = GENERAL LOADS								
R = RECEPTACLE LOADS								
M = MOTOR LOADS								

* NEW C.B. SHALL HAVE A LOCK DEVICE TO LOCK C.B. IN THE OPEN POSITION

CIRCUIT		CKT BKR	PHASES			DESCRIPTION		
No.	TYPE	TRIP POLE	LITE	RECP	MISC	AØ VA	BØ VA	
1	R	20	1			500		DATA LOGGER & MODEM
2	R	20	1			180		CONVENIENCE GFCI DUPLEX RECEPTACLE
3	L	20	1			15		INTERIOR CABINET LED LIGHT FIXTURE
4		20	1					SPARE
5	M	20*	2			665		SLIDE GATE ACTUATOR
6	M					665		
7		20	1					SPARE
8		20	1					SPARE
TOTAL CONNECTED VA PHASE						1,380	845	
L-LOAD VA =		15	L.C.L @ 125% VA =		19			
G-LOAD VA =		-	GENERAL LOAD @ 100% VA =		-			
R-LOAD VA =		680	RECEPT. (> 10 KVA @ 50%) VA =		0			
M-LOAD VA =		1,330	RECEPT. (<= 10 KVA @ 100%) VA =		680			
OTHER LOAD VA =		-	MOTOR LOAD @ 100% VA =		1,330			
CONNECTED VA =		2,025	OTHER LOAD @ 100% VA =		-			
LOAD TYPE:			TOTAL DEMAND VA =		2,028.8			
L = (L.C.L.) CONTINUOUS LOAD			DEMAND AMPS =		8.5			
G = GENERAL LOADS								
R = RECEPTACLE LOADS								
M = MOTOR LOADS								

* NEW C.B. SHALL HAVE A LOCK DEVICE TO LOCK C.B. IN THE OPEN POSITION

TYPE	DESCRIPTION	TOTAL WATTS	LAMP TYPE	MOUNTING
A	5-9/16"x10-5/8" LED VAPORTIGHT CEILING MOUNT, 120V-1Ø LUMINAIRE SHALL BE OR AGENCY APPROVED EQUAL TO LITHONIA CAT. No. OLVTCM	15	LED	CLG. MT. INSIDE STAND-UP CABINET



SPECIFIC NOTES:

- ① METERED SERVICE PEDESTAL, SEE DETAIL. INSTALL NEW UTILITY SERVICE IN ACCORDANCE WITH UTILITY & NEC REQUIREMENTS. INSTALL 10' CU-CLAD GROUND ROD AT NEW SERVICE. BOND SERVICE ENCLOSURE & NEUTRAL TO GROUND ROD WITH #8 AWG COPPER.
- ② GROUND WELL, SEE DETAIL. 3/4"Ø x 10' CU-CLAD GROUND ROD. GROUND SYSTEM SHALL BE INSTALLED PER NEC 250-50.
- ③ UNDERGROUND UTILITY COMPANY SERVICE FEEDER.
- ④ 3/4"Ø x 10' CU-CLAD GROUND ROD IN PEDESTAL.
- ⑤ U.G. BRANCH CIRCUITS, SEE SITE PLAN FOR NUMBER OF CONDUITS AND WIRE SIZES.

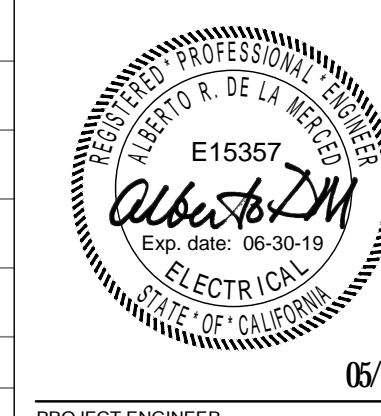
SERVICE PEDESTAL ONE-LINE DIAGRAM

ONE-LINE GENERAL NOTES:

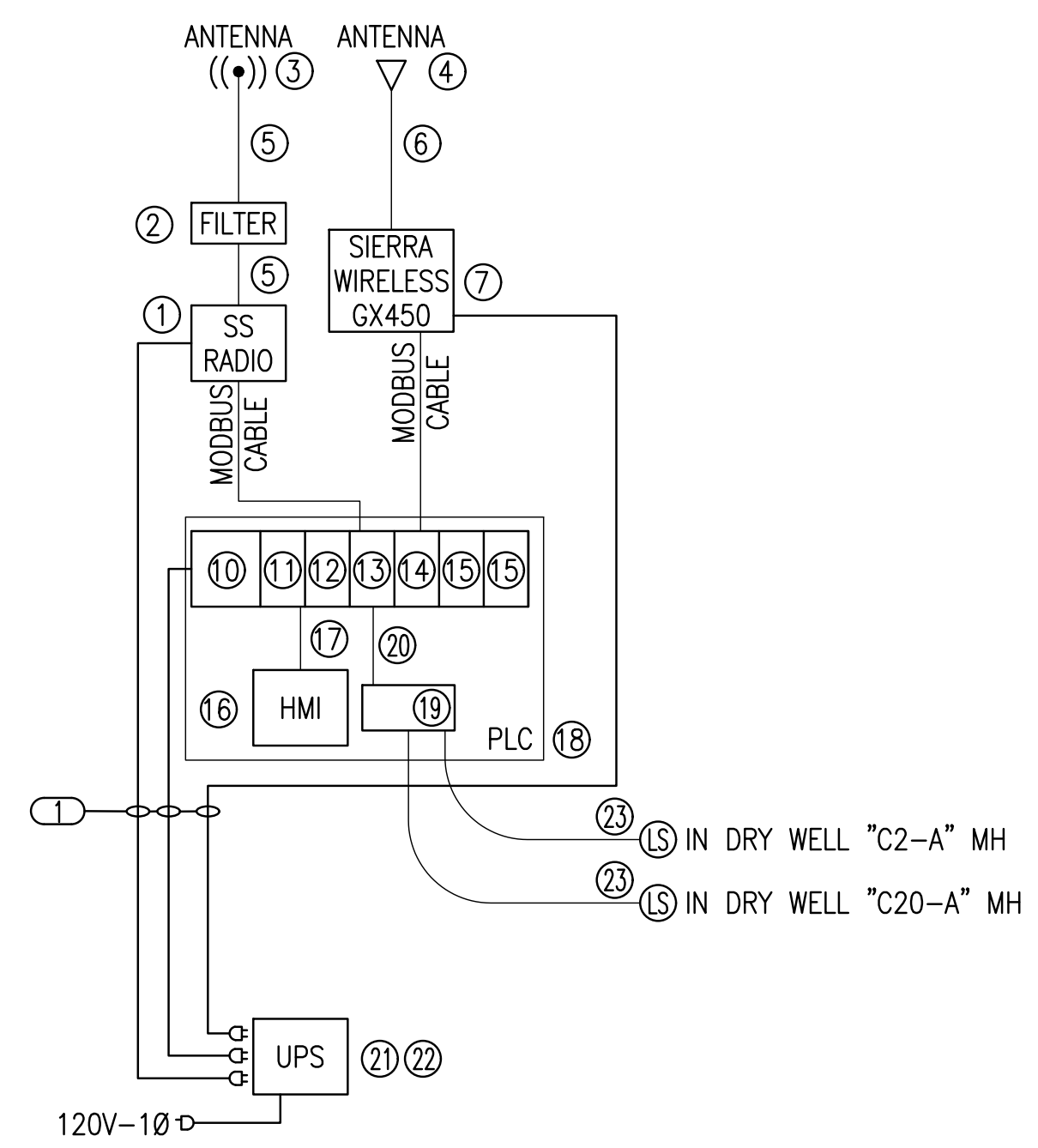
- A. PROVIDE BLACK ON WHITE LAMINATED PLASTIC NAMEPLATE ENGRAVED IN MINIMUM 1/4" HIGH LETTERS. ATTACH NAMEPLATE TO EQUIPMENT, PANEL BOARDS AND DISCONNECTS, ETC. WITH RIVETS, BOLTS, OR SHEET METAL SCREWS. CEMENTED ATTACHMENTS ARE NOT ACCEPTABLE.
- B. PROVIDE CARD HOLDER ON INSIDE OF DOORS OF PANEL BOARDS FOR INDEX CARDS. AN ACCURATE TYPEWRITTEN PANEL SCHEDULE SHALL BE PUT INTO EACH PANEL.
- C. PROVIDE (2) KEYS WITH EACH PANEL BOARD. ALL PANEL BOARD LOCKS SHALL BE KEYED ALIKE.
- D. WHERE TWO OR THREE POLE CIRCUIT BREAKERS OCCUR IN LIGHTING PANELS, THE MULTI-POLE BREAKERS SHALL HAVE COMMON TRIP "QUICKLAG" TYPE UNITS. SINGLE POLE BREAKERS WITH TIE-BAR BETWEEN HANDLE WILL NOT BE ACCEPTABLE.
- E. ELECTRICAL CONTRACTOR SHALL DETERMINE EXACT LENGTHS FOR HIS BID.
- F. BOND GROUNDING ELECTRODE CONDUCTOR TO GROUNDING ELECTRODE WITH IRREVERSIBLE GROUND CLAMP OR EXOTHERMIC WELD (CADWELD, THERMOWELD, OR EQUAL).
- G. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED FOR 75°C MINIMUM.

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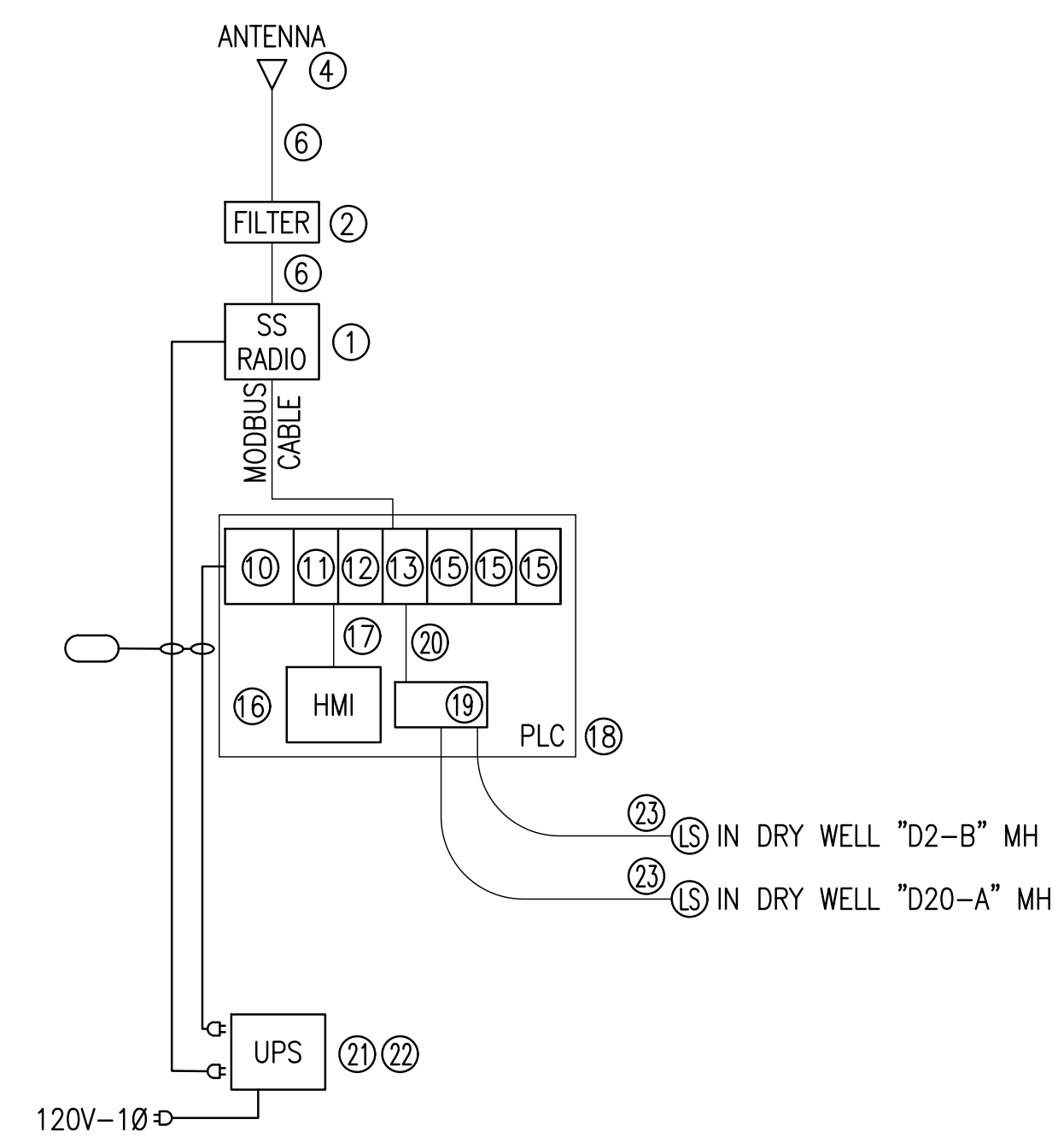
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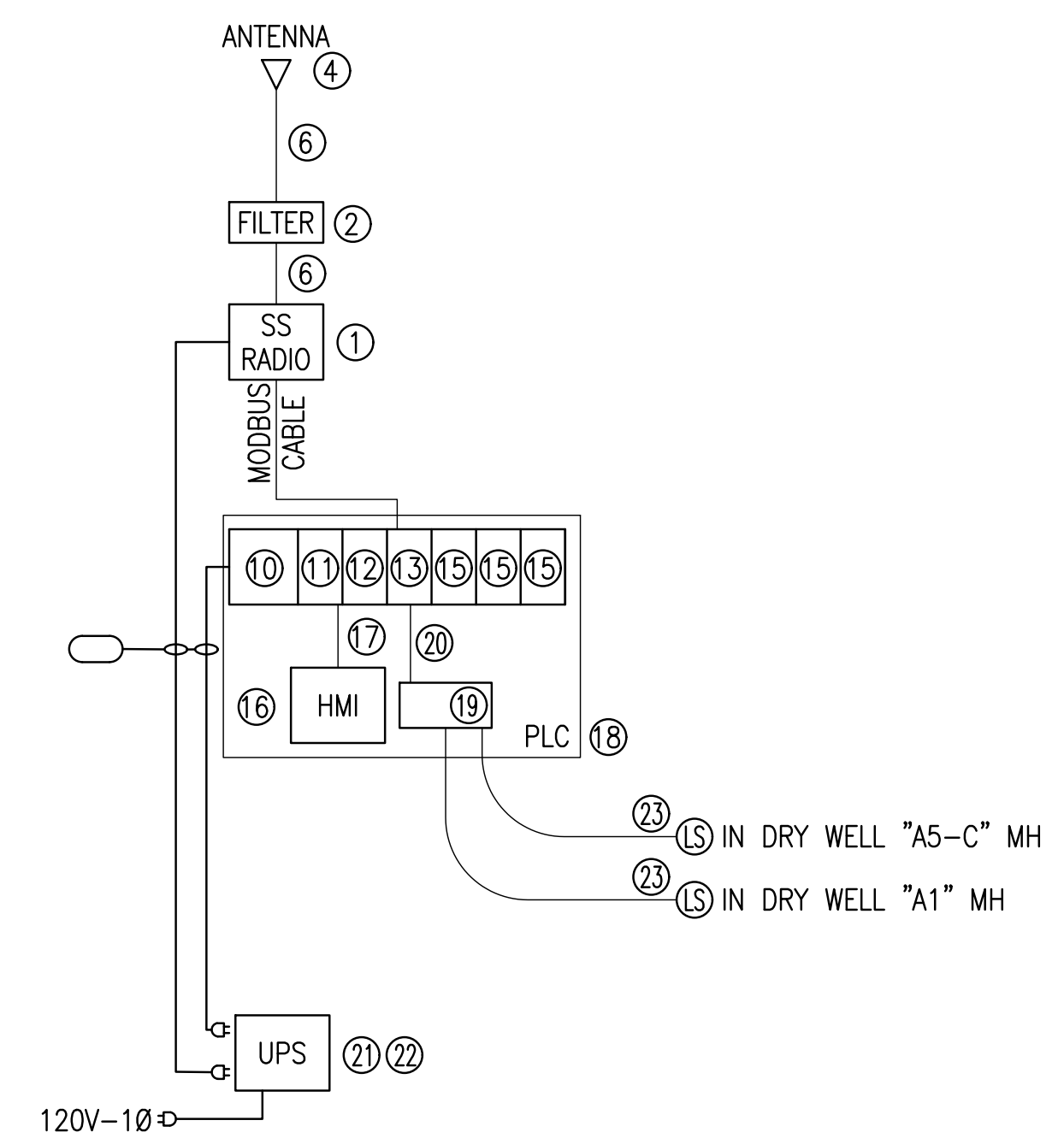
LOS ANGELES COUNTY PUBLIC WORKS	
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT ONE-LINE DIAGRAM NOTES, PANEL SCHEDULES PROJECT ID NO. WMU000010	
PROJECT ENGINEER	DATE 05/29/19
LACFCD INDEX NO. 116-D27	SHEET 11 OF 14



NORTHSIDE DRIVE



SOUTHSIDE DRIVE



MONTEBELLO PARKWAY

INTERCONNECTION BLOCK DIAGRAM

- GENERAL NOTES:**
- A. PLC I/O EQUIPMENT SUBCONTRACTOR TO PROVIDE AND INSTALL ALL HARDWARE, CONDUITS, SUPPORTS, AND SIGNAL & DATA CABLES. ALL WIRING SHALL BE TIED TO TERMINAL STRIP. LOS ANGELES COUNTY PUBLIC WORKS OPERATIONAL SERVICES DIVISION WILL PROGRAM SYSTEM.
- CONSTRUCTION NOTES:**
- ① MANUFACTURER POWER CORD WITH NEMA 5-15P. CONNECT TO UPS INTEGRAL NEMA 5-15R RECEPTACLE. SECURE CORDS TO UNISTRUT SUPPORT WITH PLASTIC CABLE TIES AS REQUIRED.

EQUIPMENT BILL OF MATERIALS		
	ITEM	DESCRIPTION
RADIO LINK BETWEEN SITES (SPREAD SPECTRUM)	①	MDS ECR-900 SPREAD SPECTRUM RADIO LINK, MODEL#ECRU91NNNNNS1D1USUNNN
	②	MDS 902-927 BANDPASS FILTER, MODEL#20-22822AA02
	③	LAIRD DS-FG9026 1016 6db 900-920 WITH FM2 MOUNTING BRACKET
	④	LAIRD 902-927 ANTENNA, CABINET ROOF MOUNT, UNITY GAIN, BLACK, MODEL#TRAB9023NP
	⑤	COAX: TIMES LMR400 USED FOR POLE MOUNTED YAGI ANTENNA
	⑥	COAX: TIMES LMR200 USED FOR CABINET TOP LAIRD ANTENNA
RADIO FOR LINK BACK TO PWD HQ CELLULAR (AT&T)	⑦	SIERRA WIRELESS AIRLINK, GX450, AT&T CELLULAR, MODEL#11020364
	⑧	LAIRD CELLULAR ANTENNA, CABINET ROOF MOUNT, BLACK, MODEL#TRAB806/17103P
	⑨	COAX: TIMES LMR200
PROGRAM LOGIC CONTROLLER (PLC) (AUTOMATION DIRECT PL205)	⑩	BASE 6 SLOT: D2-06BDC1-1
	⑪	CPU MODULE: DO-MORECPU, ETHERNET INTERFACE, H2-DM1E
	⑫	24DC INPUT CARD, 16 INPUTS, D2-16ND3-2
	⑬	ANALOG INPUT/OUTPUT CARD, 8 INPUTS, 4 OUTPUTS, F2-8AD4DA01
	⑭	H2-ECOM100 ETHERNET MODULE MODBUS
	⑮	BLANK FILLER MODULE, D2-SILL
	⑯	10" TOUCH SCREEN MODULE, MODEL#EA9-T10CL. ON CABINET DOOR.
	⑰	SERIAL CABLE, CATALOG#EA-2CBL-1
	⑱	ENCLOSURE, NEMA TYPE 4, SIZE 24"Wx30"Hx10"D WITH PANEL DIN-RAIL, CATALOG#CSD302410LG
	⑲	ZIPLINK 20-POLE FEED THRU MODULE ZL-RTB20
UPS	⑲	INTERFACE CABLE ZL-D2-CBL 19
	⑲	APC SMART-UPS 750VA LCD 120V, MODEL#SMT750US. (1) NEMA 5-15P INPUT, (6) NEMA 5-15R OUTPUT
LASER SENSOR	⑲	WALL MOUNT BRACKET, UNIVERSAL
	⑲	TRUSENSE S300 LASER SENSOR SERIES

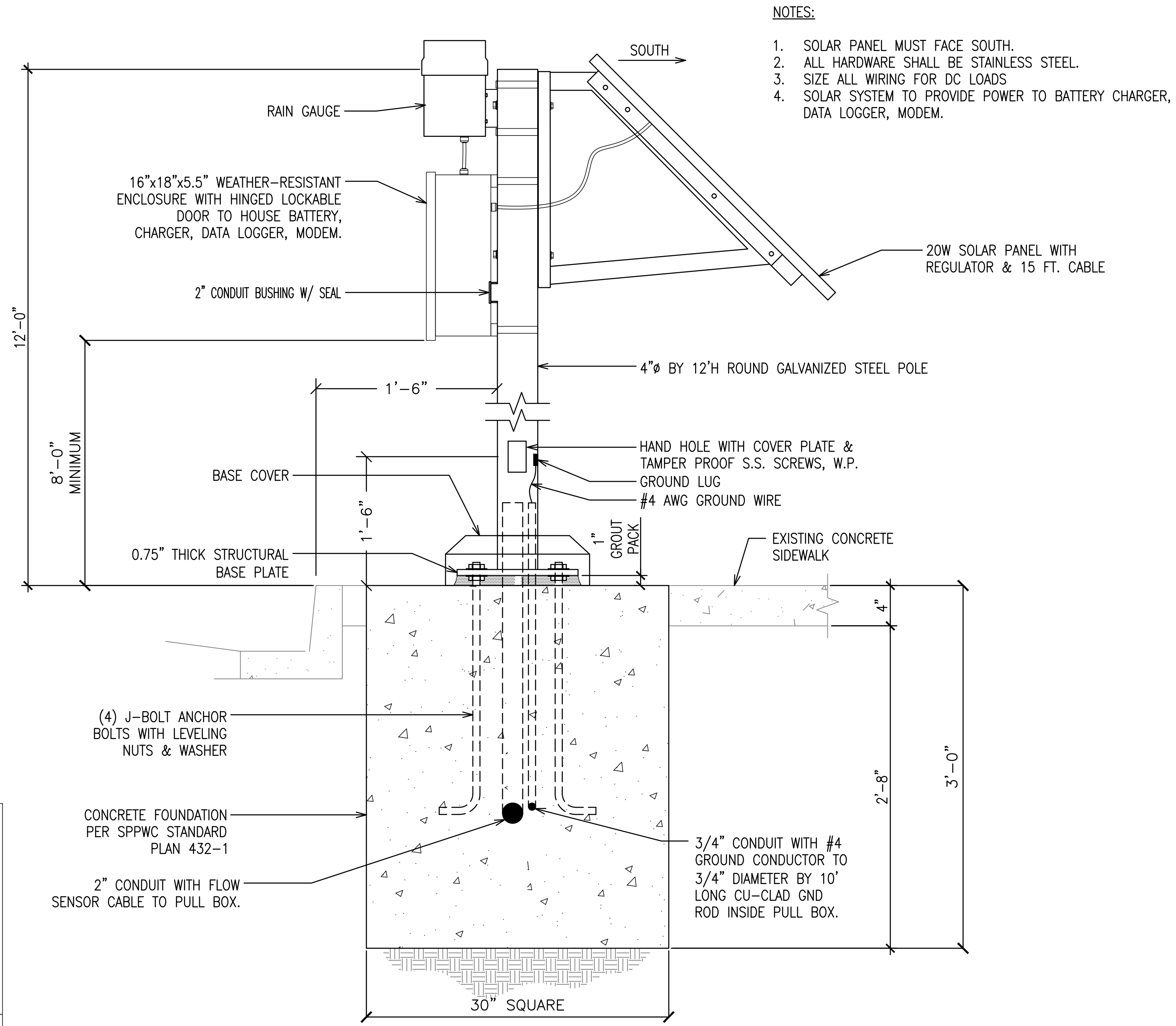
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DATE	MK	DESCRIPTION
REVISIONS		



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
TELEMETRY & PLC BLOCK DIAGRAMS
 PROJECT ID NO. WMU0000010

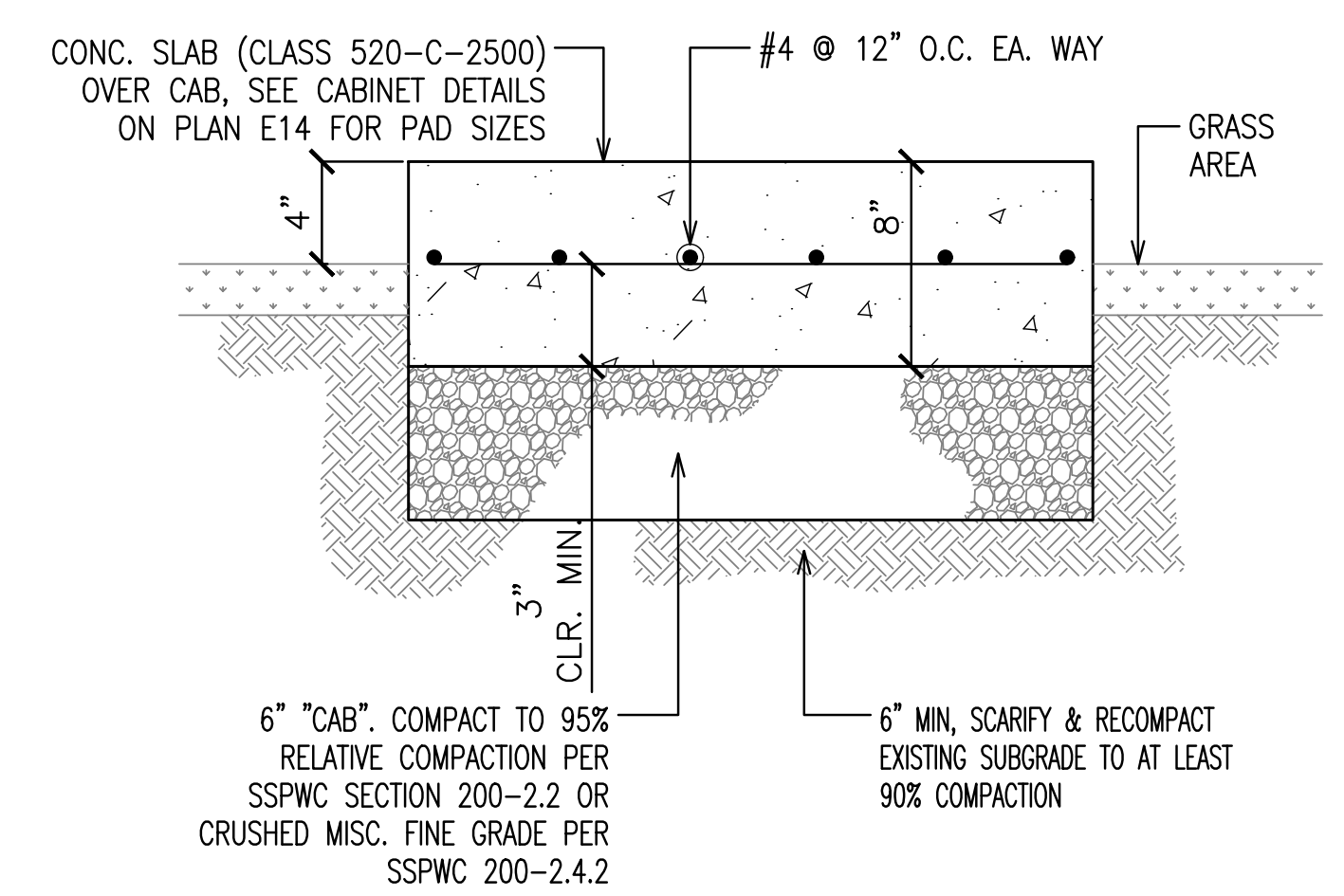
E12
 LACFCD INDEX NO. 116-D27 SHEET 12 OF 14



- NOTES:**
- SOLAR PANEL MUST FACE SOUTH.
 - ALL HARDWARE SHALL BE STAINLESS STEEL.
 - SIZE ALL WIRING FOR DC LOADS
 - SOLAR SYSTEM TO PROVIDE POWER TO BATTERY CHARGER, DATA LOGGER, MODEM.

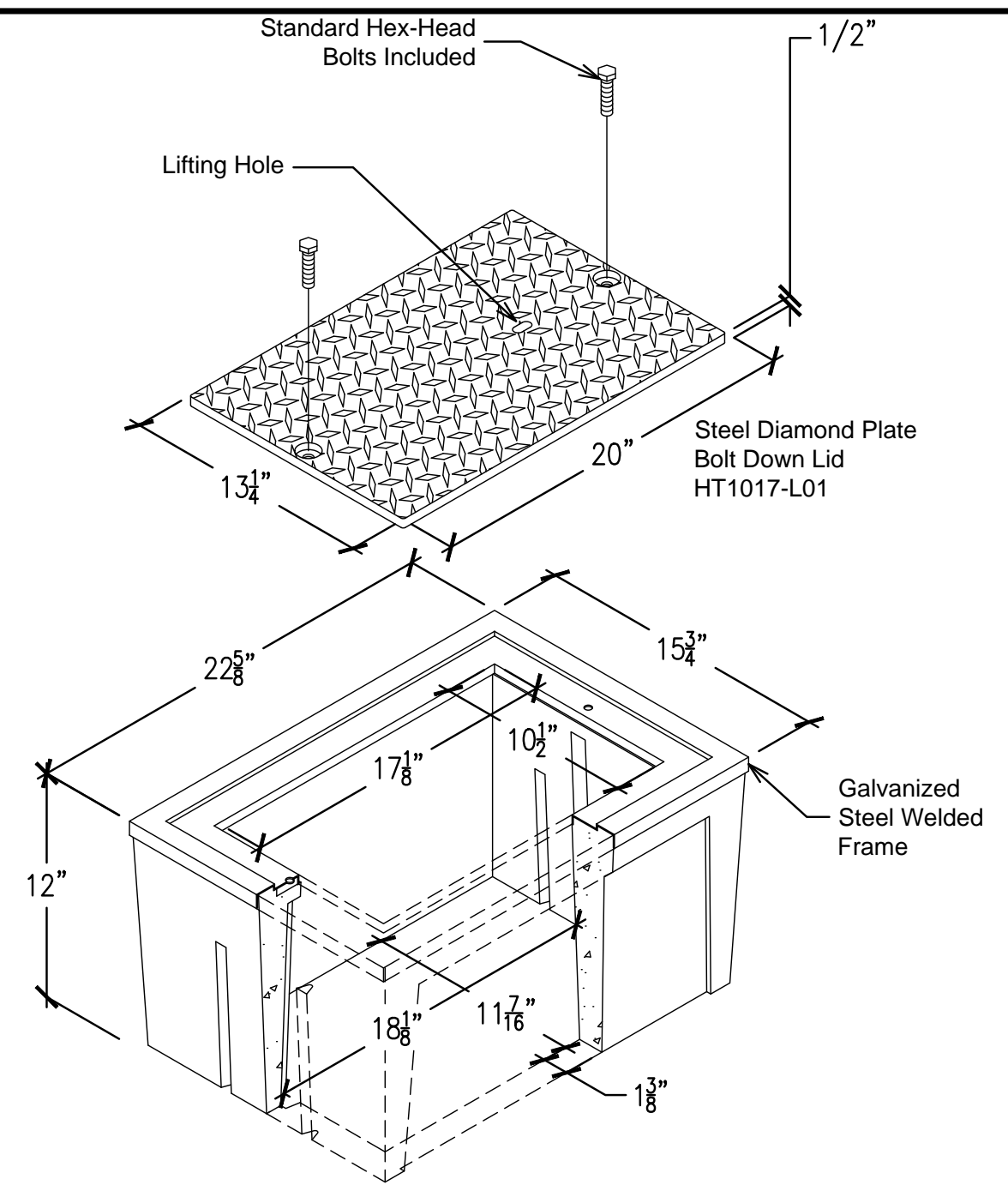
SOLAR POLE DATA LOGGER ENCLOSURE DETAIL

NO SCALE ⑥



EQUIPMENT PAD DETAIL

NO SCALE ⑤

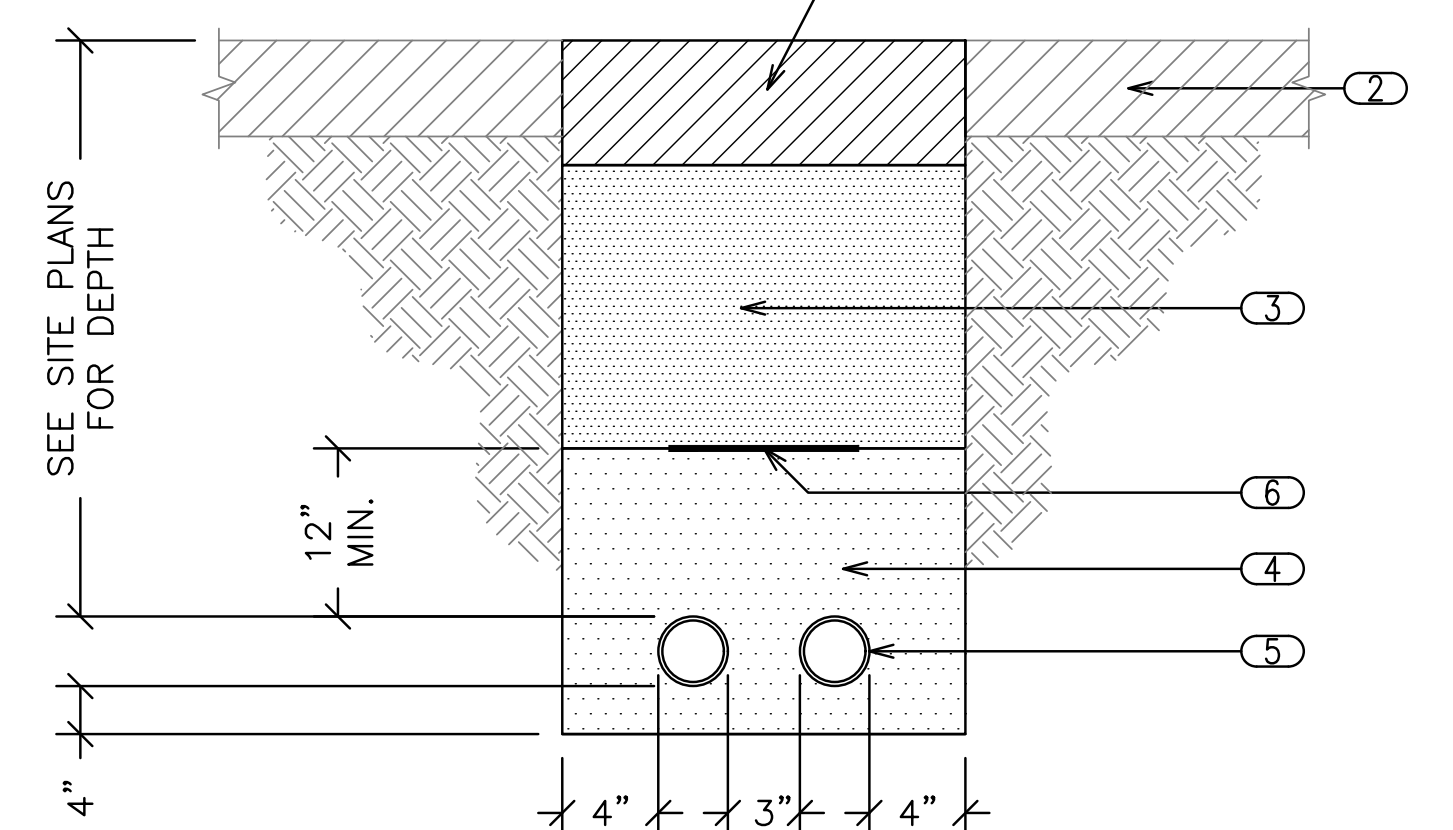


A HIGH DENSITY REINFORCED CONCRETE PULL AND JUNCTION BOX ON 6" BED OF 1" CRUSHED ROCK AND CONCRETE FOOTING. DESIGN LOAD: TRAFFIC RATED. INSTALL PER CALTRANS ES-8B & SSPWC SPECIFICATION SECTION 701-11 "PULL BOXES"

PRODUCT	DESCRIPTION	APPROX. WT. (LBS.)
BOX	CONCRETE TRAFFIC RATED BOX	125
LID	STEEL DIAMOND PLATE W/HOLD DOWN BOLTS	38

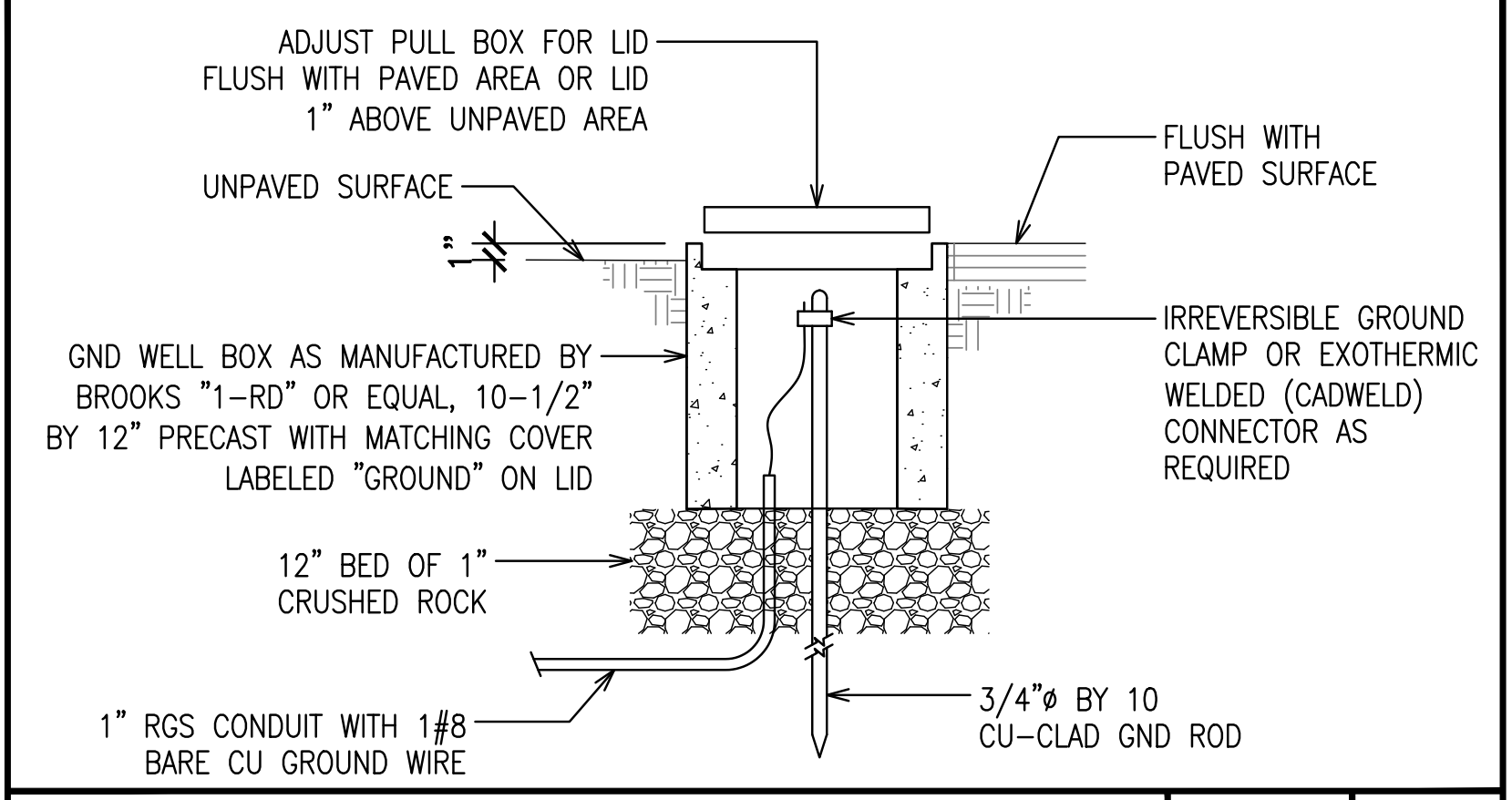
PULL BOX DETAIL

NO SCALE ④



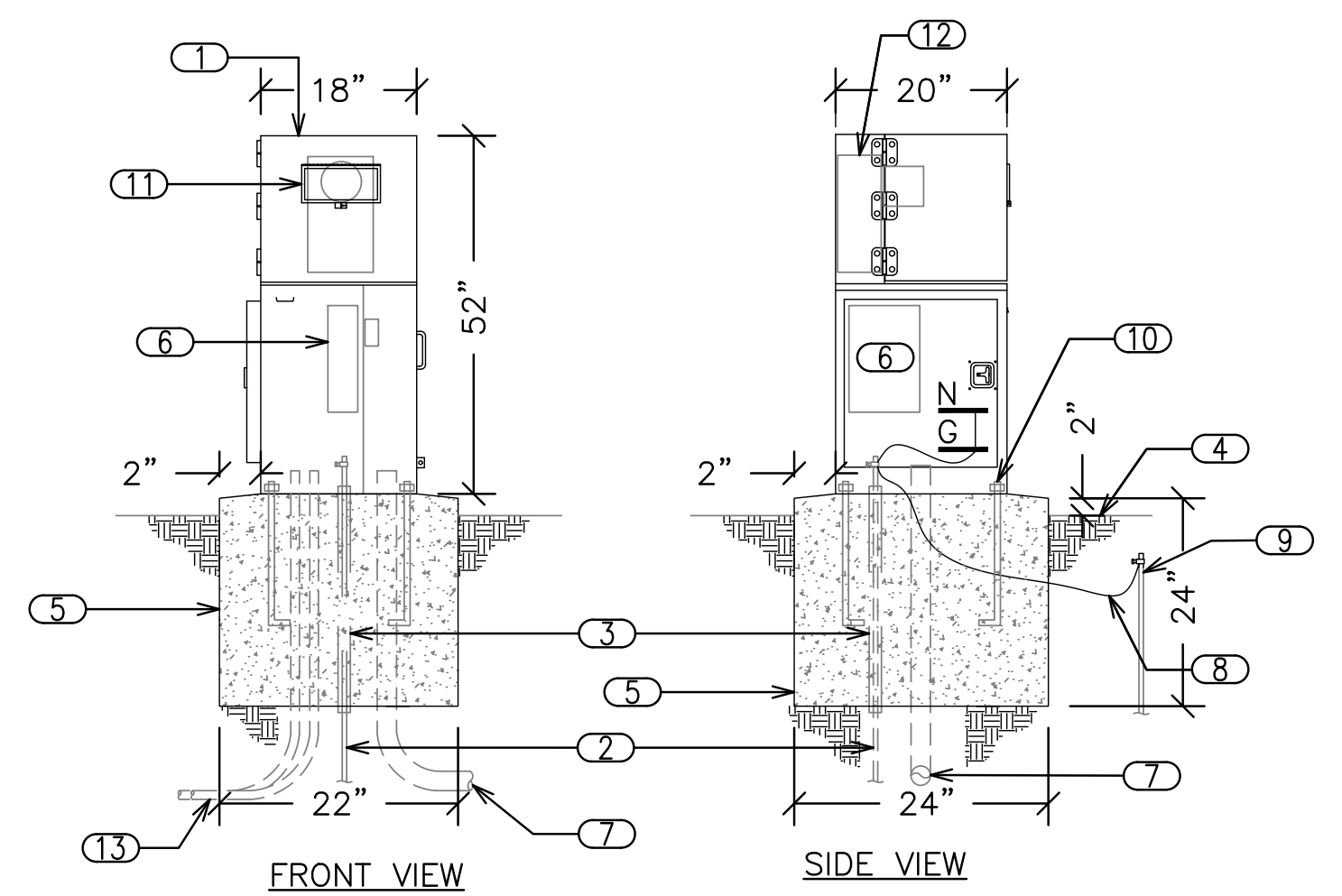
BRANCH CIRCUIT TRENCH DETAIL

NO SCALE ③



GROUND WELL DETAIL

NO SCALE ②



- ① METERED SERVICE PEDESTAL,
- ② 3/4" BY 10' LONG CU-CLAD GND ROD W/ GND CLAMP
- ③ PVC SLEEVE FOR GROUND ROD
- ④ FINISHED GRADE
- ⑤ POURED CONCRETE BASE - EXTEND 2" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE WITH 0.5% SLOPE FOR DRAINAGE.
- ⑥ LOAD CENTER, 100A/2P MAIN CB-120/240V-1φ-3W-42KAIC MIN.
- ⑦ 3" PVC SCHD80 CONDUIT WITH 3/8" WIDTH WOVEN MULTI-FIBER RIBBON PULL TAPE, 30" MIN. COVER, CABLES BY UTILITY COMPANY
- ⑧ #8 AWG. MINIMUM GND ELECTRODE CONDUCTOR.
- ⑨ 3/4" BY 10' LONG CU-CLAD GND ROD IN GROUND WELL, SEE DETAIL 2.
- ⑩ FOUR (4) ANCHOR BOLTS, ONE AT EACH CORNER OF THE ELECTRICAL SERVICE ENCLOSURE,
- ⑪ METER VIEWING WINDOW.
- ⑫ METER SOCKET WITH TEST BLOCKS
- ⑬ U.G. BRANCH CIRCUITS, SEE SITE PLANS FOR NUMBER OF CONDUITS AND WIRES SIZES.

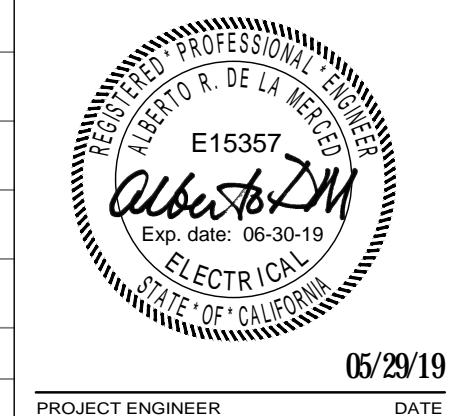
SERVICE PEDESTAL DETAIL (TYPICAL)

NO SCALE ①

NOT USED NO SCALE (X)

DATE REVIEWED BY CAD PROJECT FILE NAME CHECKER DESIGNER ADM DRAFTER ADM

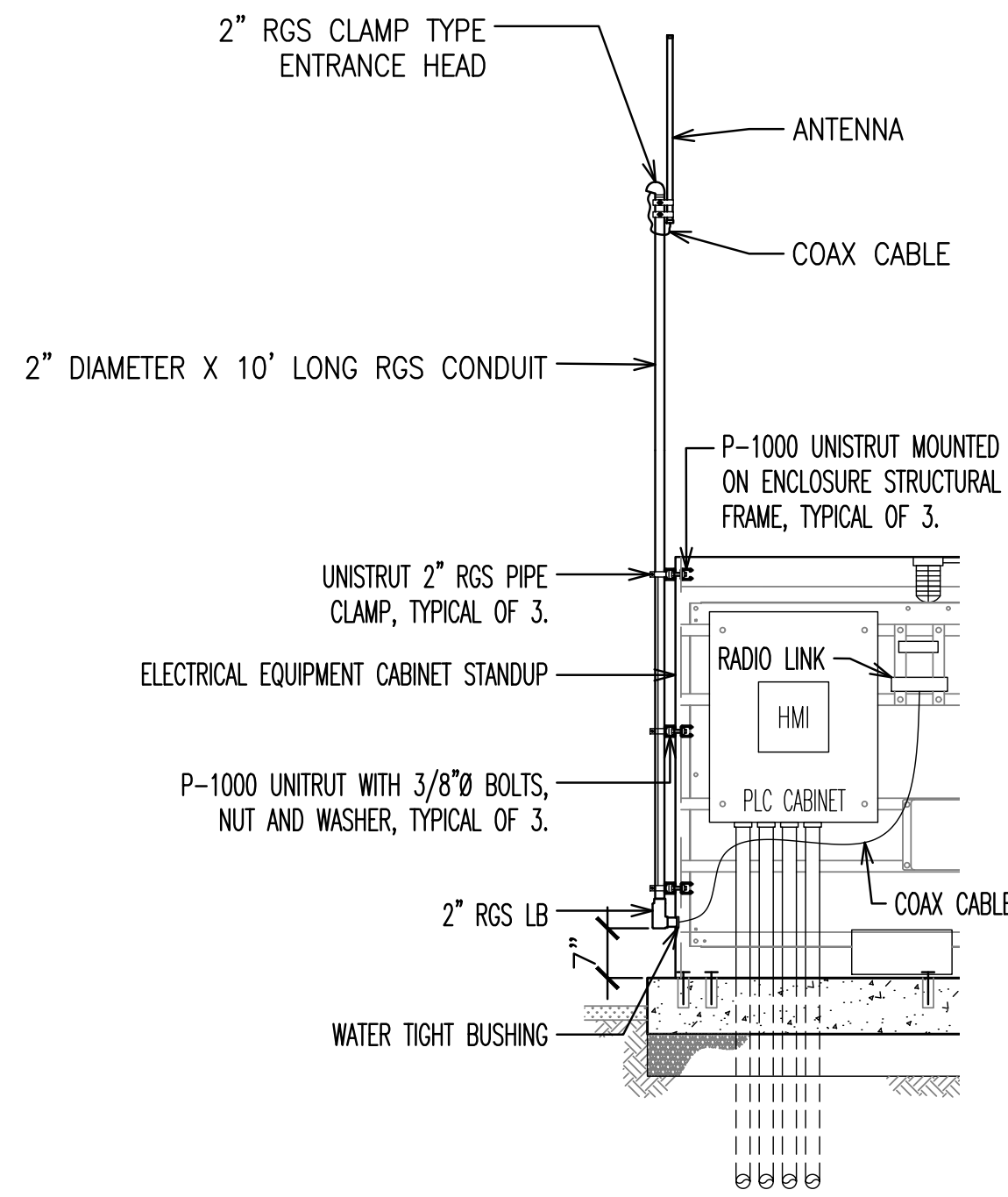
DATE	MK	DESCRIPTION
REVISIONS		



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT DETAILS
 PROJECT ID NO. WMU000010
 LACFCD INDEX NO. 116-D27 SHEET 13 OF 14

GENERAL NOTES:

- A. SEE PLAN E12 FOR ANTENNA AND COAX CABLE DESCRIPTION.



ANTENNA MAST DETAIL

NO SCALE

12

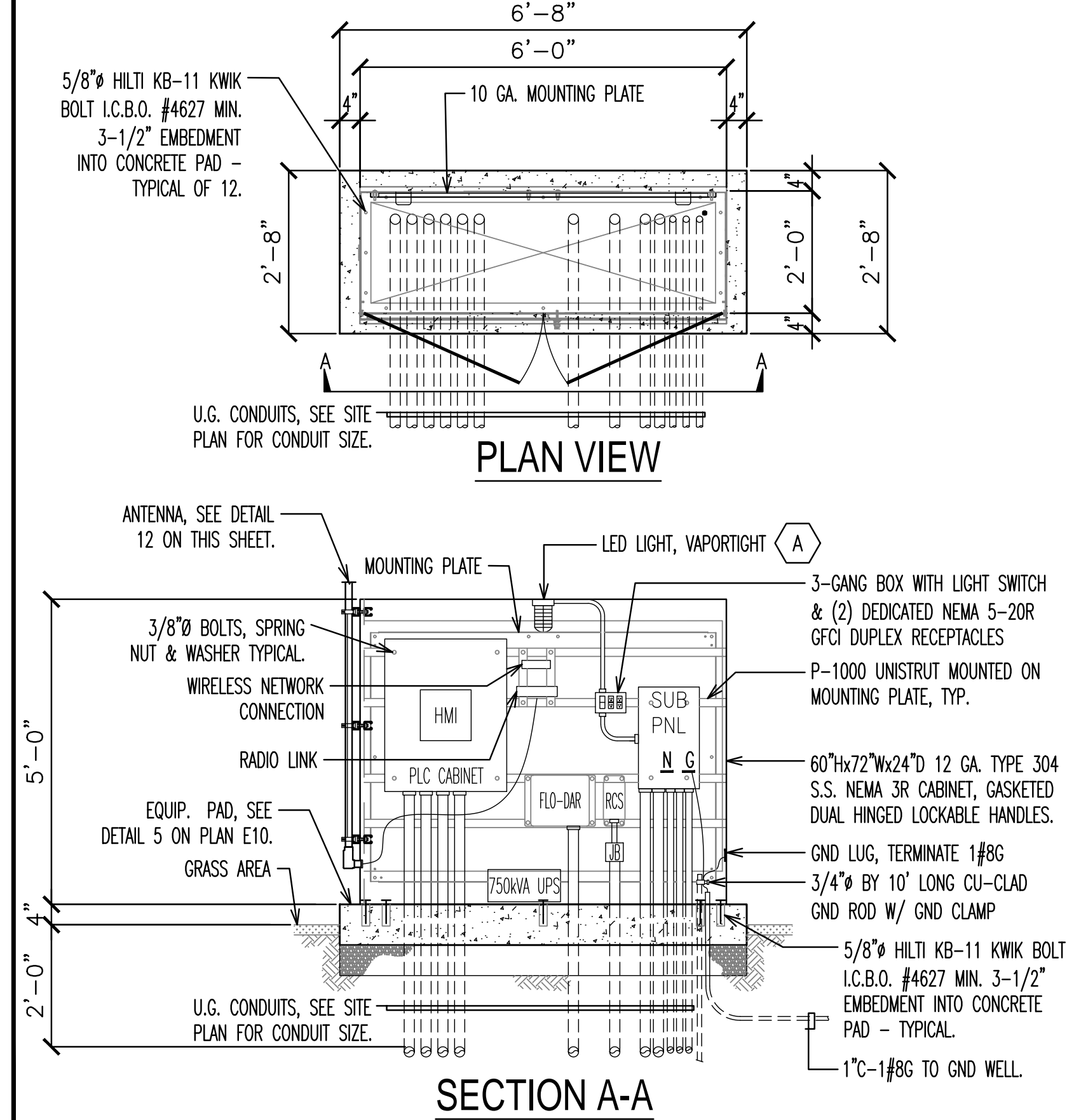
ELECTRICAL EQUIPMENT CABINET

NO SCALE

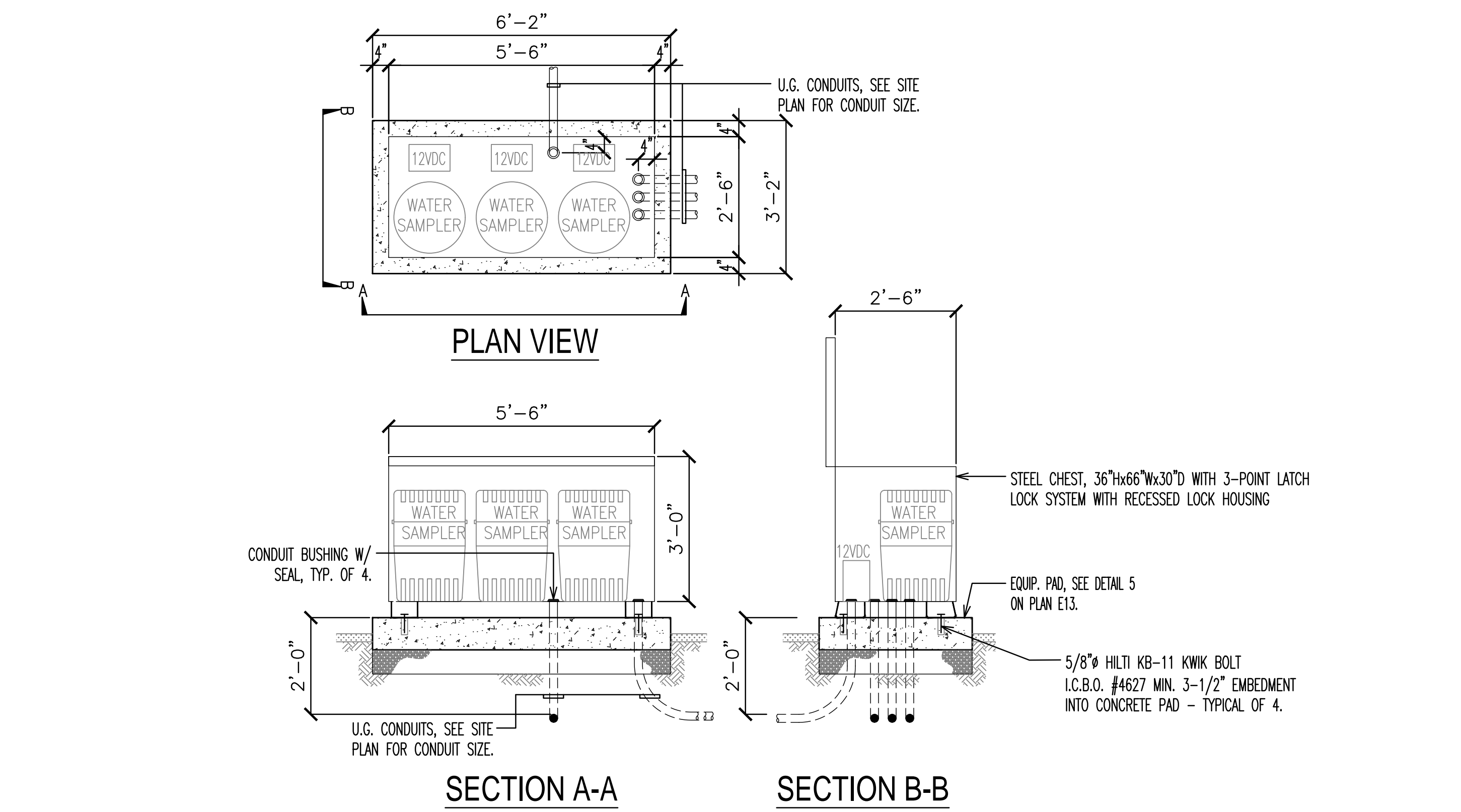
11

GENERAL NOTES:

- A. SEE PLAN E12 FOR PLC & TELEMETRY REQUIREMENTS AND 750VA UPS DESCRIPTION.
- B. SEE PLAN M-7 FOR EMO RCS CONTROLLER DETAIL.
- C. SEE PLAN M-7 FOR FLO-DAR DATA LOGGER DETAIL.



SECTION A-A



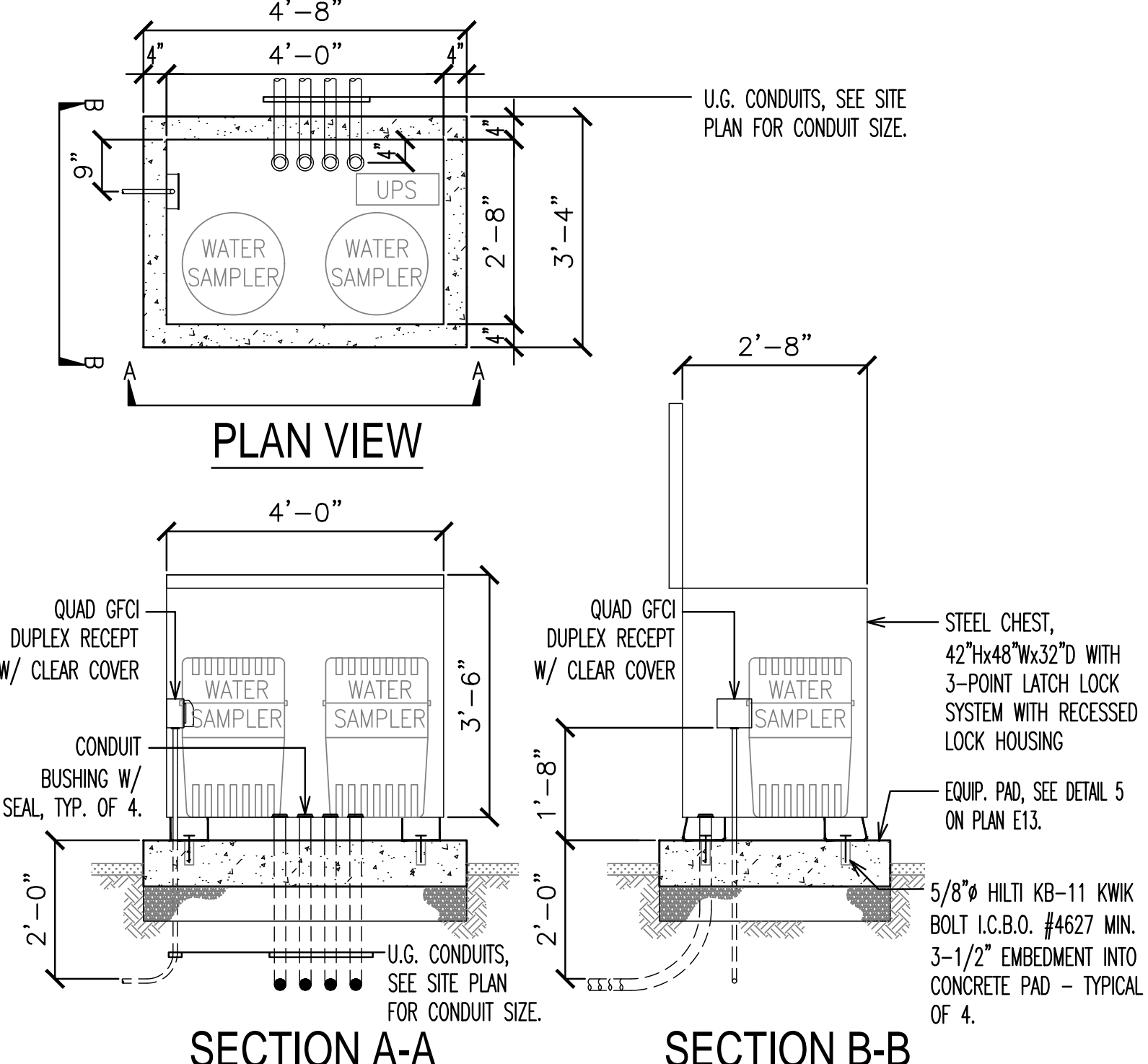
MONITORING EQPT. CHEST "C" DETAIL

NO SCALE

10

GENERAL NOTES:

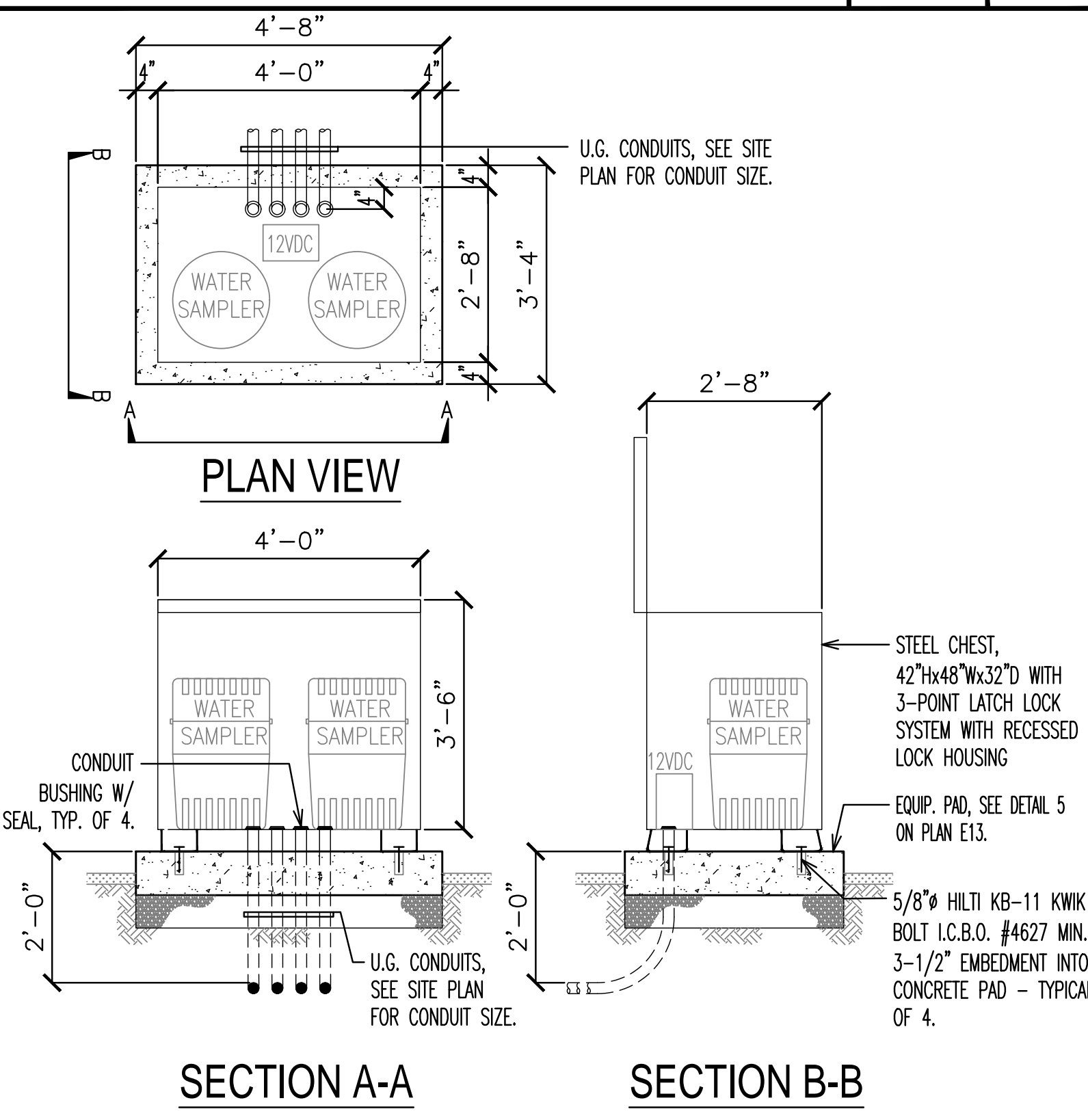
- A. SEE "EQUIPMENT BILL OF MATERIALS" ITEM NO. 21 ON PLAN E12 FOR 750VA UPS DESCRIPTION.



MONITORING EQPT. CHEST "A" DETAIL

NO SCALE

9



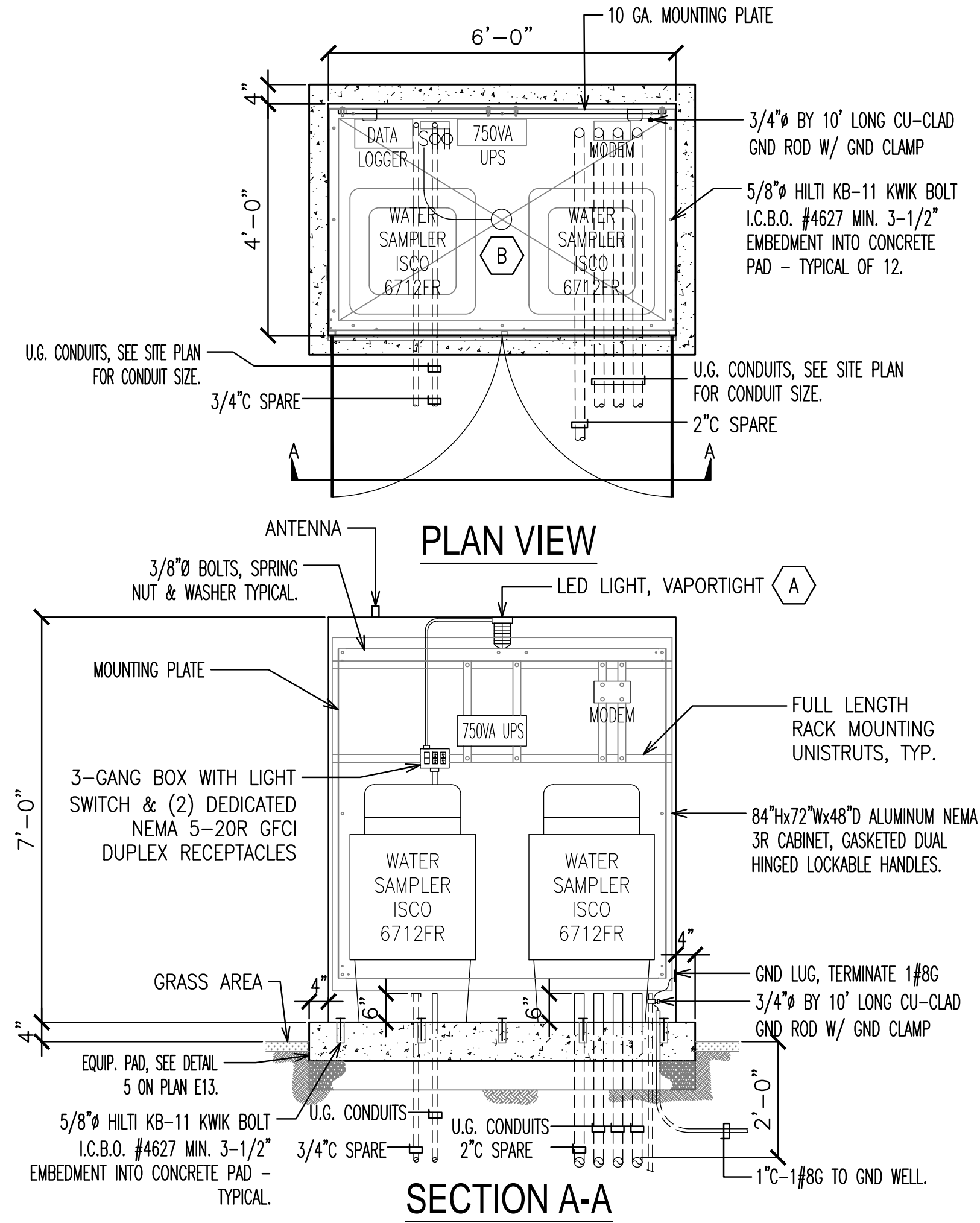
MONITORING EQPT. CHEST "B" DETAIL

NO SCALE

8

GENERAL NOTES:

- A. SEE "EQUIPMENT BILL OF MATERIALS" ITEM NO. 21 ON PLAN E12 FOR 750VA UPS DESCRIPTION.



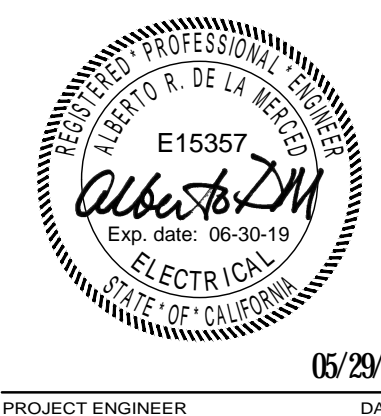
MONITORING EQPT. CABINET DETAIL

NO SCALE

7

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REVISIONS		



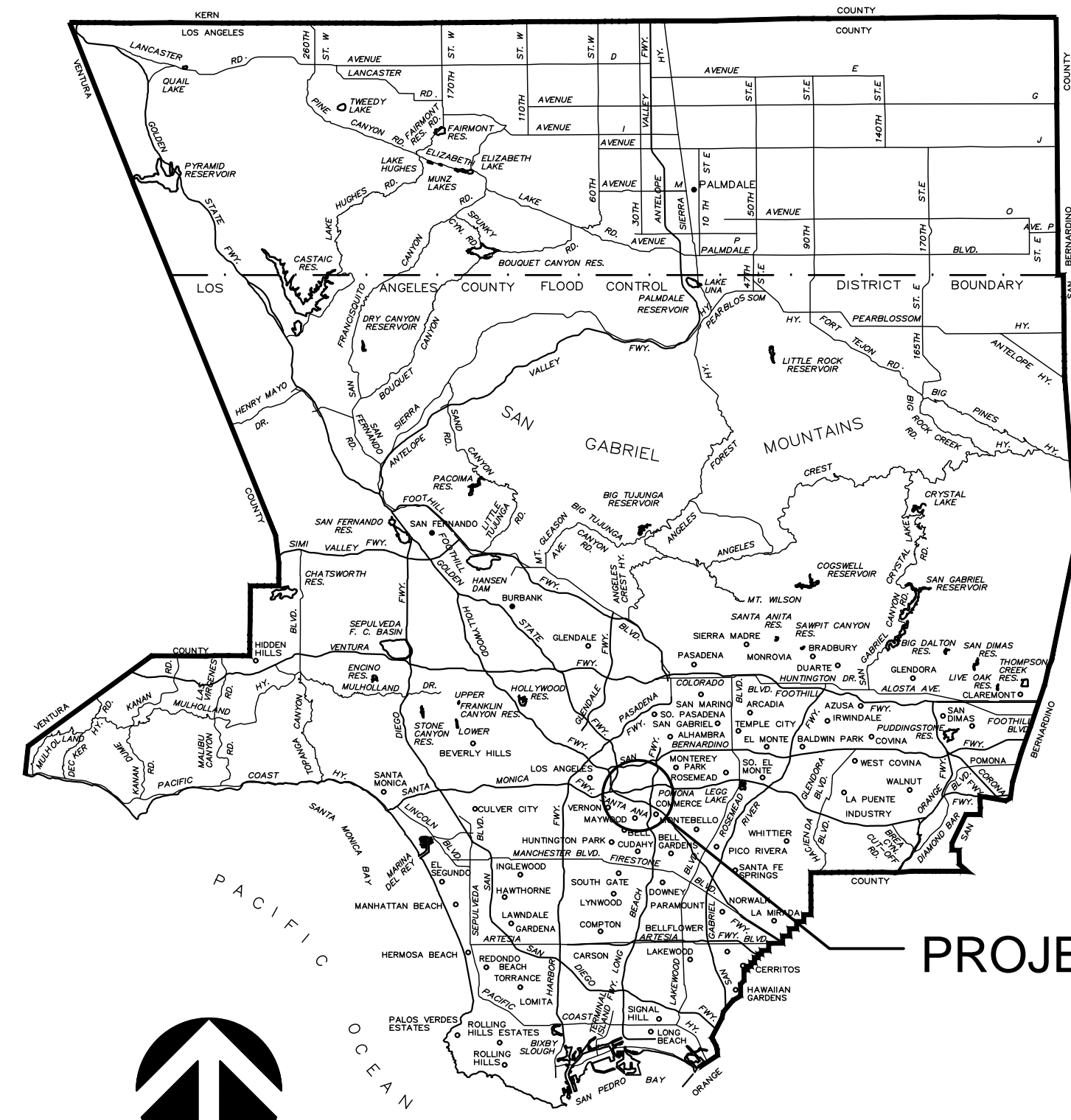
LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT DETAILS
 PROJECT ID NO. WMU000010
 LACFCD INDEX NO. 116-D27 SHEET 14 OF 14

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

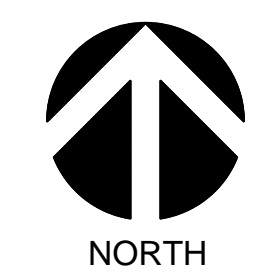
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT LANDSCAPE PLANS

SHEET INDEX

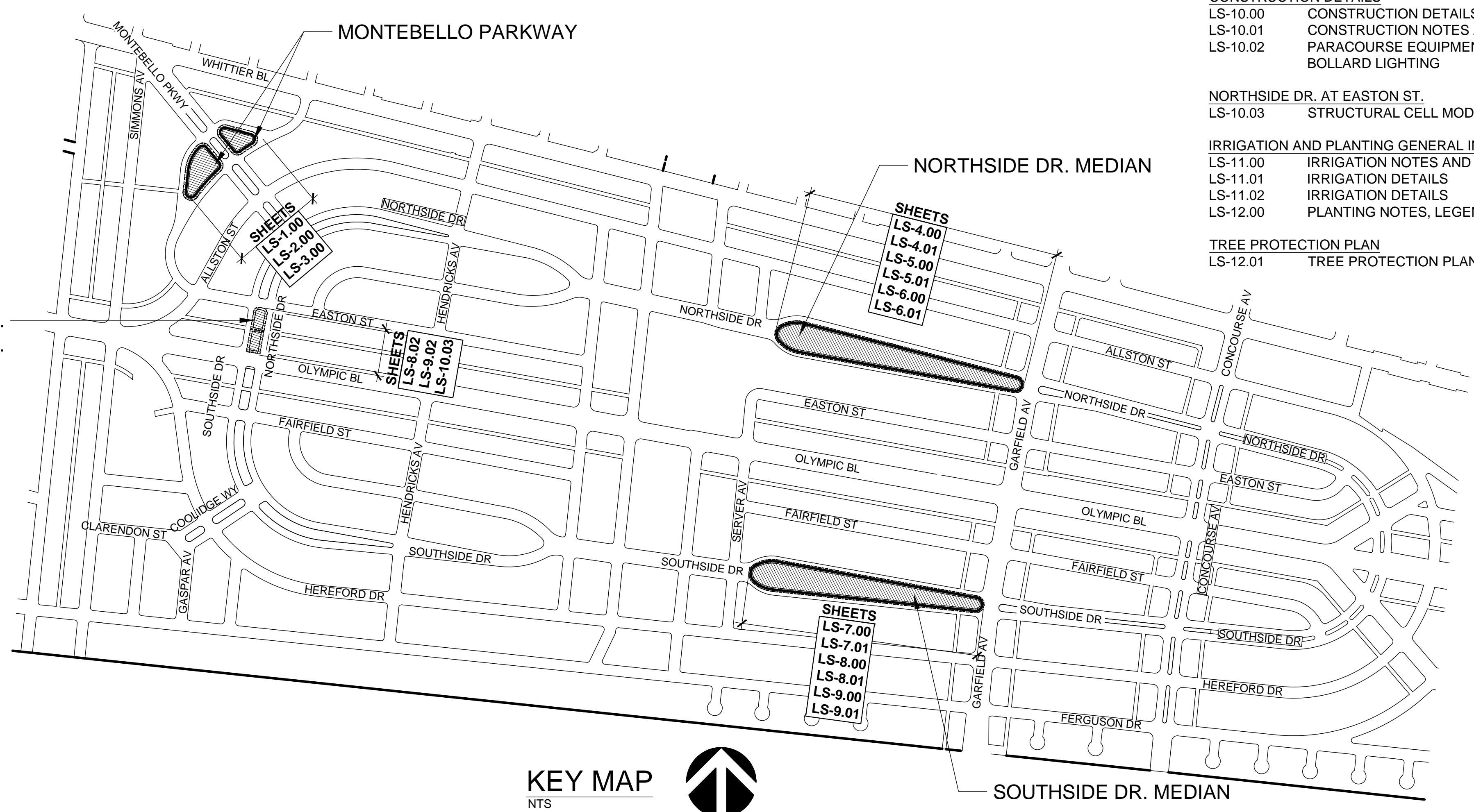
SHEET	TITLE
LS-0.00	TITLE SHEET
MONTEBELLO PARKWAY	
LS-1.00	CONSTRUCTION PLAN
LS-2.00	IRRIGATION PLAN
LS-3.00	PLANTING PLAN
NORTHSIDE DR. MEDIAN	
LS-4.00	CONSTRUCTION PLAN
LS-4.01	CONSTRUCTION PLAN
LS-5.00	IRRIGATION PLAN
LS-5.01	IRRIGATION PLAN
LS-6.00	PLANTING PLAN
LS-6.01	PLANTING PLAN
SOUTHSIDE DR. MEDIAN	
LS-7.00	CONSTRUCTION PLAN
LS-7.01	CONSTRUCTION PLAN
LS-8.00	IRRIGATION PLAN
LS-8.01	IRRIGATION PLAN
NORTHSIDE DR. AT EASTON ST.	
LS-8.02	IRRIGATION PLAN
SOUTHSIDE DR. MEDIAN	
LS-9.00	PLANTING PLAN
LS-9.01	PLANTING PLAN
NORTHSIDE DR. AT EASTON ST.	
LS-9.02	PLANTING PLAN
CONSTRUCTION DETAILS	
LS-10.00	CONSTRUCTION DETAILS
LS-10.01	CONSTRUCTION NOTES AND DETAILS
LS-10.02	PARACOURSE EQUIPMENT AND PEDESTRIAN BOLLARD LIGHTING
NORTHSIDE DR. AT EASTON ST.	
LS-10.03	STRUCTURAL CELL MODULE SYSTEM
IRRIGATION AND PLANTING GENERAL INFORMATION	
LS-11.00	IRRIGATION NOTES AND LEGEND
LS-11.01	IRRIGATION DETAILS
LS-11.02	IRRIGATION DETAILS
LS-12.00	PLANTING NOTES, LEGEND & DETAILS
TREE PROTECTION PLAN	
LS-12.01	TREE PROTECTION PLAN



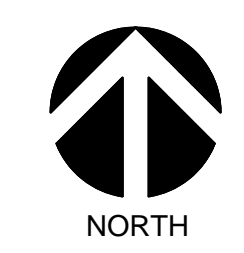
PROJECT SITE



VICINITY MAP NTS
TG P-675 (J-1, J-2), TG -676 (A-2,B-2)



KEY MAP
NTS



ABBREVIATION / ACRONYM LEGEND

&	AND	GA.	GAUGE	REINF.	REINFORCED
#	AT	GALV.	GALVANIZED	REV.	REVISED OR REVISION
—	CENTERLINE	G.V.	GATE VALVE	R.O.W.	RIGHT OF WAY
Ø	DIAMETER	G.W.	GUY WIRE	RWD.	REDWOOD
#S	NUMBER OR POUNDS	H.B.	HOSE BIBB	S.	SOUTH
AC	ASPHALTIC CONCRETE	HORIZ.	HORIZONTAL	SCE.	SOUTHERN CALIFORNIA EDISON
AD	AREA DRAIN	H.P.	HIGH POINT	SCHL.	SCHEDULE
AGG.	AGGREGATE	HT.	HEIGHT	S.D.	STORM DRAIN
ALT.	ALTERNATIVE	I.D.	INSIDE DIAMETER	SEC.	SECTION
ARCH.	ARCHITECT	INV.	INVERT	SHT.	SHEET
ASPH.	ASPHALT	IRR.	IRRIGATION	SIM.	SIMILAR
AVE.	AVENUE	JT.	JOINT	SPEC.	SPECIFICATION
B.C.	BOTTOM OF CURB OR BEGINNING OF CURVE	L.	LONG OR LENGTH	SQ.	SQUARE
BLDG.	BUILDING	LBS.	POUNDS	ST.	STREET
BLVD.	BOULEVARD	L.O.W.	LIMIT OF WORK	SYM.	SYMBOL
B.M.	BENCH MARK	LT.	LIGHT	T.	TREADS
B.W.	BOTH WAYS	MAX.	MAXIMUM	T.C.	TOP OF CURB
C.B.	CATCH BASIN	MECH.	MECHANICAL	T.O.D.	TOP OF DRAIN
C.C.J.	CONTROL JOINT	MFR.	MANUFACTURER	TEL.	TELEPHONE
C.L.	CHAIN LINK	M.H.	MANHOLE	TEMP.	TEMPORARY
CLR.	CLEAR	MIN.	MINIMUM	T.G.	TOP OF GRADE
C.M.U.	CONCRETE MASONRY UNIT	MISC.	MISCELLANEOUS	T & G.	TONGUE AND GROOVE
C.O.	CLEAN OUT	N.	NORTH	T.P.	TOP OF PAVEMENT
CONC.	CONCRETE	N.I.C.	NOT IN CONTRACT	T.W.	TOP OF WALL
CONT.	CONTINUOUS, CONTINUED	NOM.	NOMINAL	TYP.	TYPICAL
DEPT.	DEPARTMENT	N.T.S.	NOT TO SCALE	U.O.N.	UNLESS OTHERWISE NOTED
DET.	DETAIL	O.D.	OUTSIDE DIAMETER	U.P.R.R.	UNION PACIFIC RAILROAD
D.F.	DOUGLAS FIR	P.A.	PLANTING AREA	V.	VALVE
D.G.	DECOMPOSED GRANITE	P.B.	PULL BOX	V.B.	VALVE BOX
DIA.	DIAMETER	PERF.	PERFORATED	VERT.	VERTICAL
DIM.	DIMENSION	P.L.	PROPERTY LINE	V.I.F.	VERIFY IN FIELD
DPW.	DEPARTMENT OF PUBLIC WORKS	P.O.C.	POINT OF CONNECTION	VOL.	VOLUME
DWG.	DRAWING	P.P.	POWER POLE	W.	WEST OR WIDE
DWP.	DEPARTMENT OF WATER AND POWER	P.P.F.	PREFABRICATED PROPERTY	W/	WITH
E.	EAST	P.P.T.	PREFABRICATED PROPERTY TREATED PAVEMENT	WD.	WOOD
EXIST.	EXISTING	P.V.M.T.	PRESSURE TREATED PAVEMENT	W.H.	WEEP HOLE
E.J.	EXPANSION JOINT	Q.C.	QUICK COUPLER	W.I.	WROUGHT IRON
ELEV.	ELEVATION	R.	RISERS OR RADIUS	W.M.	WATER METER
ELEC.	ELECTRICAL	RAD.	RADIUS	WP.	WATERPROOF (ING)
EQ.	EQUAL, EQUALLY	R.C.V.	REMOTE CONTROL VALVE	WT.	WEIGHT
EQUIP.	EQUIPMENT	RD.	ROAD	W.W.F.	WOVEN WIRE FABRIC
F.G.	FINISHED GRADE			W.W.M.	WELDED WIRE MESH
F.H.	FIRE HYDRANT				
F.F.E.	FINISHED FLOOR ELEVATION				
F.L.	FLOW LINE				
F.S.	FINISHED SURFACE				
FT.	FEET OR FOOT				

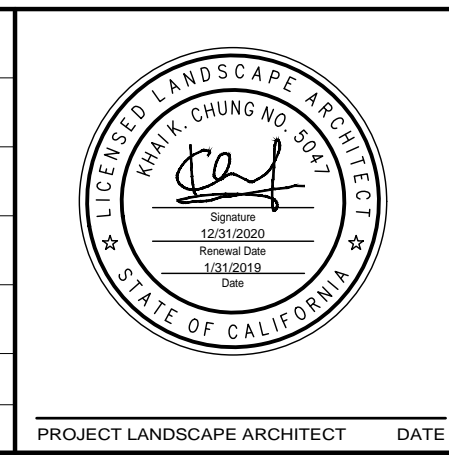
UNDERGROUND UTILITY SYMBOLS

— E — E — E —	ELECTRICAL STREET LIGHTING, SIGNALS, ETC., THE GAS COMPANY
— GAS — GAS —	
— W —	POTABLE WATER CALIFORNIA WATER SERVICE
— SS —	LOS ANGELES COUNTY SEWER MAINTENANCE DIVISION
— SD —	STORM WATER

CALL 8-1-1 TOLL FREE

TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		



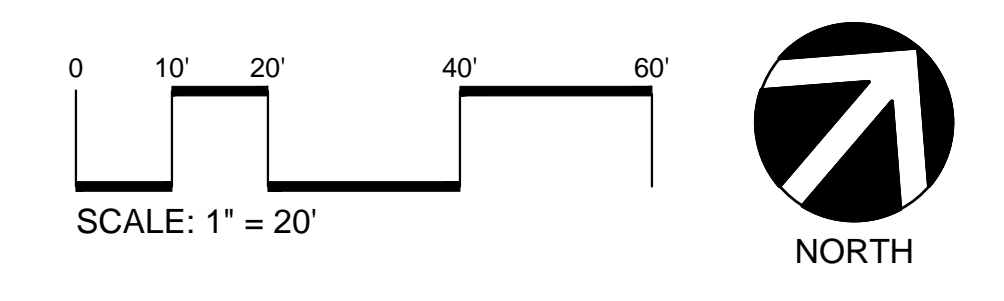
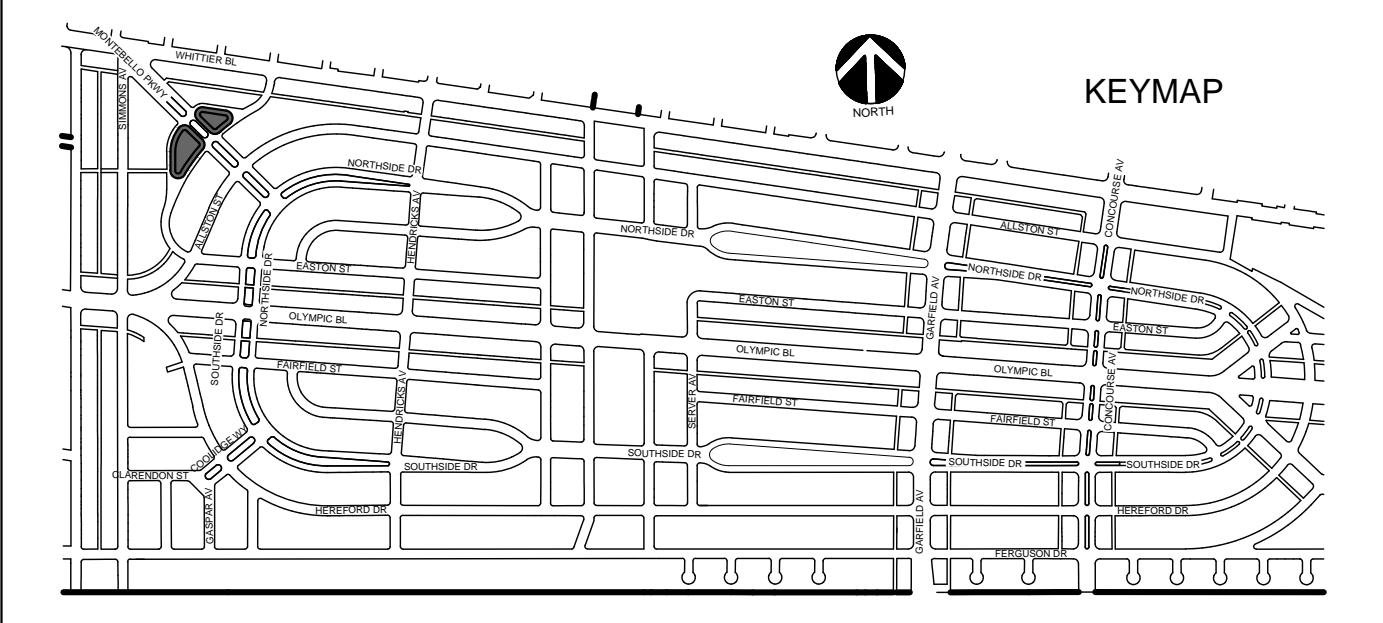
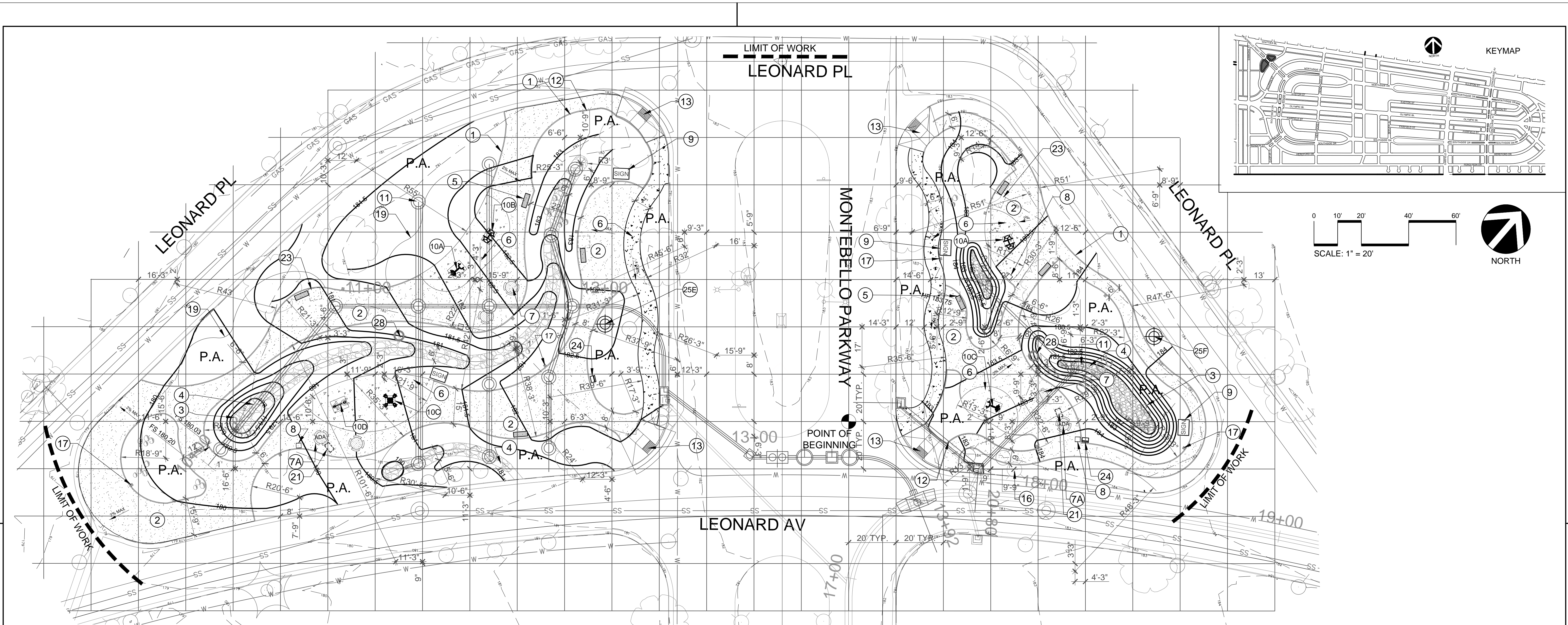
LOS ANGELES COUNTY PUBLIC WORKS

**EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT**
PROJECT ID NO. WMU000010

TITLE SHEET

LS-0.00

LACFCD INDEX NO. 116-D27 PCA SHEET 1 OF 27



CONSTRUCTION MATERIALS LEGEND

SYMBOL	NUMBER	DESCRIPTION	TYPE	SIZE	COLOR	MANUFACTURER / MODEL	DETAIL
	1	CONCRETE HEADER	4" WIDE HEADER	---	NATURAL GRAY	---	DET B / LS-10.00
	2	DECOMPOSED GRANITE	DECOMPOSED GRANITE WITH STABILIZER, REFER TO CONSTRUCTION NOTES	---	YELLOW/GOLD	REFER TO SPECIAL PROVISIONS	DET B / LS-10.00
	3	DECORATIVE BOULDERS	ROUND GRANITE BOULDERS, REFER TO SPECIAL PROVISIONS	18" - 3'	NATURAL GRAY	REFER TO SPECIAL PROVISIONS	DET G / LS-10.00
	4	RIVER ROCK COBBLE	REFER TO SPECIAL PROVISIONS	6" - 8"	NATURAL GRAY	REFER TO SPECIAL PROVISIONS	DET C / LS-10.00
	5	CONCRETE PARK BENCH (W/CONC. FOOTING)	CONCRETE BENCH W/ANTI-SKATE BUMPS, REFER TO CONSTRUCTION NOTES	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	DET C / LS-10.01
	6	CONCRETE WALKWAY	---	4" THICK	NATURAL GRAY MEDIUM BROOM FINISH	---	DET A / LS-10.00
	7	CONCRETE PICNIC TABLE	ROUND CONCRETE PICNIC TABLE WITH BUILT IN SEATING	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	---
	7A	CONCRETE PICNIC TABLE ADA ACCESSIBLE	ROUND CONCRETE PICNIC TABLE WITH BUILT IN SEATING W/ ADA ACCESS	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	---
	8	CONCRETE TRASH RECEPTACLE	ROUND TOP RECEPTACLE, SIDE OPENING	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	DET H / LS-10.00
	9	INTERPRETIVE SIGN	FULL COLOR INTERPRETIVE SIGN MOUNTED TO METAL FRAME	W:2' X L:3' X H:3'-10"	GREEN	REFER TO SPECIAL PROVISIONS	DET D / LS-10.00
	10A	PARACOURSE EXERCISE EQUIP. STATION A	4-PERSON PENDULUM, ABS AND DIPS	---	---	---	---
	10B	PARACOURSE EXERCISE EQUIP. STATION B	2-PERSON UPPER BODY COMBO	---	---	REFER TO SPECIAL PROVISIONS	DET B,C / LS-10.02
	10C	PARACOURSE EXERCISE EQUIP. STATION C	2-PERSON ACCESSIBLE CHEST PRESS	---	---	---	---
	10D	PARACOURSE EXERCISE EQUIP. STATION D	4-PERSON LEG PRESS	---	---	---	---
	11	DRY WELL PER PLAN DR.	---	---	---	---	---
	12	CONCRETE HIGH CURB	6" WIDE	---	NATURAL GRAY	---	---
	13	CURB RAMP, PER PLAN DR	---	---	---	---	---
	14	CURB CUT - TYP.	---	---	---	---	DET B / LS-10.01
	15	STREET LIGHTING APPURTENANCES, REFER TO CONSTRUCTION NOTES LS-10.01	---	---	---	---	---

CONSTRUCTION MATERIALS LEGEND CONT.

SYMBOL	NUMBER	DESCRIPTION	TYPE	SIZE	COLOR	MANUFACTURER / MODEL	DETAIL
	16	EXISTING LIGHT TO REMAIN	---	---	---	---	---
	17	PEDESTRIAN BOLLARD LIGHTING	SOLAR POWERED LED LIGHT WITH LIGHTING PROFILE 02	35" HT.	BLACK	PLB102 TYPE 5 BY FIRSTLIGHT TECHNOLOGY TEL. 844-279-8754	DET A / LS-10.02
	18	4" PVC DRAIN PIPE	---	---	---	---	---
	19	PLANTING EDGE GUIDE	---	---	---	---	---
	20	CROSSWALK PER PLAN SP	---	---	---	---	---
	21	30" X 48" CLEAR FLOOR PER 11B-305 FOR: 11B-902 DINING SURFACE	---	---	---	---	---
	22	60" X 60" ADA CLEAR FLOOR SPACE & 4" THICK CONCRETE PAD	---	---	---	---	---
	23	60" X 60" ADA CLEAR FLOOR SPACE	---	---	---	---	---
	24	PET WASTE STATION	---	---	---	REFER TO SPECIAL PROVISIONS	DET D / LS-10.01
	25	SOIL TEST ("A" - "F"): (6) LOCATION SITES FOR AGRONOMIC SOIL REPORT	REFER TO SPECIAL PROVISIONS	---	---	---	DET A / LS-10.01
	26	ISLAND PASSAGEWAY, REFER TO PLAN DR FOR REMOVALS AND CONSTRUCTION	---	---	---	---	---
	27	24" DEEP IMPORT TOPSOIL AT ISLAND PASSAGEWAY	REFER TO CONSTRUCTION NOTES	---	---	---	---
	28	EXISTING MONITORING WELLS	REFER TO CONSTRUCTION NOTES	---	---	---	---

CALL 8-1-1 TOLL FREE

TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		

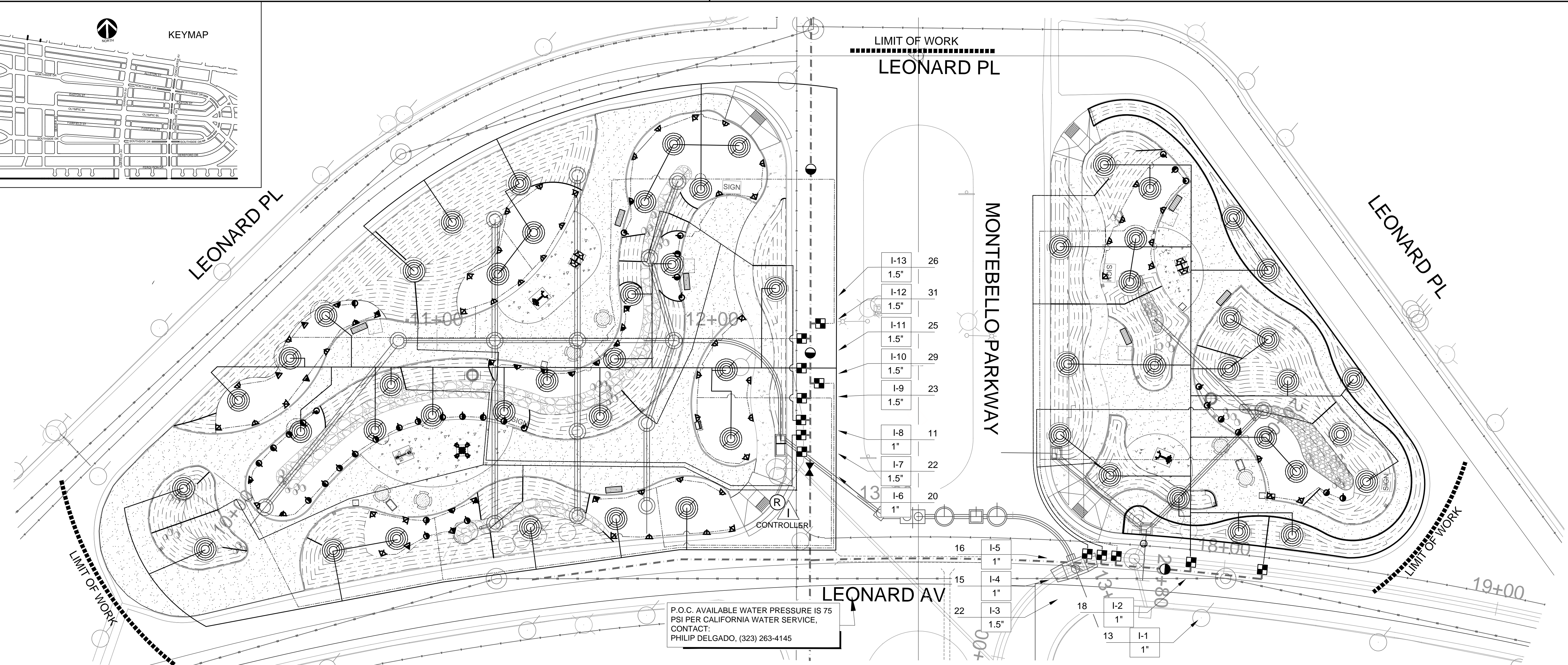
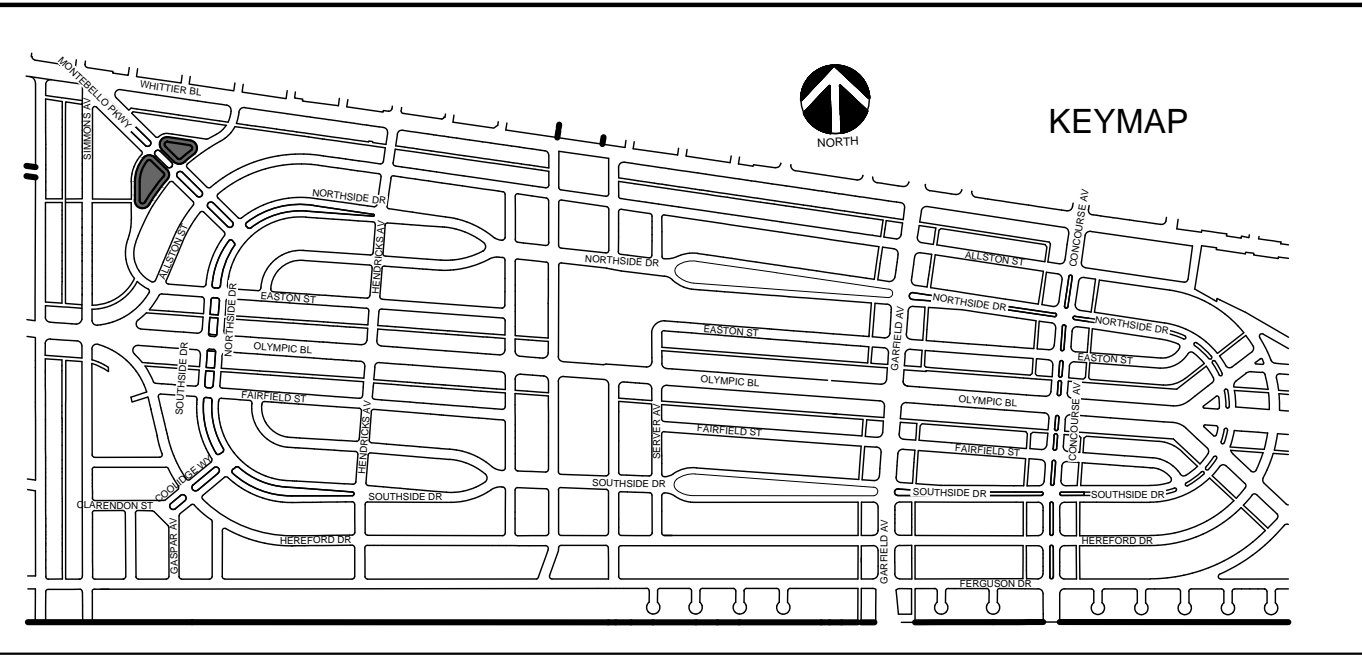
LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

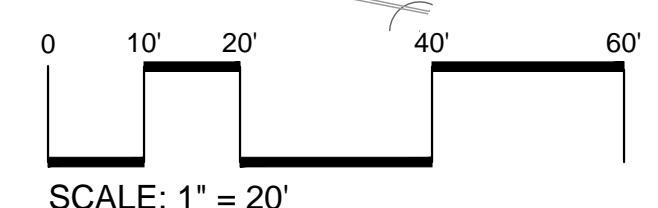
CONSTRUCTION PLAN
MONTEBELLO PARKWAY

LS-1.00

LACFCD INDEX NO. 116-D27 PCA SHEET 2 OF 27



P.O.C. AVAILABLE WATER PRESSURE IS 75 PSI PER CALIFORNIA WATER SERVICE, CONTACT: PHILIP DELGADO, (323) 263-4145



IRRIGATION EMITTER LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL/TYPE	PSI	DETAIL
---	BELOW SURFACE DRIPLINE WITH .6 GPH EMITTERS SPACED AT 12" O.C. DRIPLINE ROWS SHALL BE INSTALLED PARALLEL AND EVENLY SPACED ACROSS PLANTER WITHOUT EXCEEDING 18" O.C. STAKE DRIPLINE PER IRRIGATION NOTES.	RAINBIRD	XFS-06-12-500	30 - 40	C,D/LS-11.01 B/LS-11.02
⊙	TREE DRIPLINE. BELOW SURFACE DRIPLINE WITH 0.9 GPH EMITTERS SPACED AT 12" O.C. QUANTITY OF DRIPLINE CONCENTRIC RINGS PER PLAN AND RINGS SPACED PER IRRIGATION INSTALLATION NOTES. STAKE DRIPLINE PER IRRIGATION INSTALLATION NOTES.	RAINBIRD	XFS-09-12-500	30 - 40	I/LS-11.01
U	POP-UP INDICATOR WITH MANUAL FLUSH NOZZLE. INDICATOR HEAD MOUNTED ON RAINBIRD RD-12-S-P30-F SPRAY BODY.	RAINBIRD	RD-12-S-P30-F (POP-UP BODY)	N/A	C/LS-11.01
		GPH	GDFN (NOZZLE)		
A	AIR RELIEF VALVE	RAINBIRD	1/2" AIR RELIEF VALVE	0.5"	C/LS-11.02

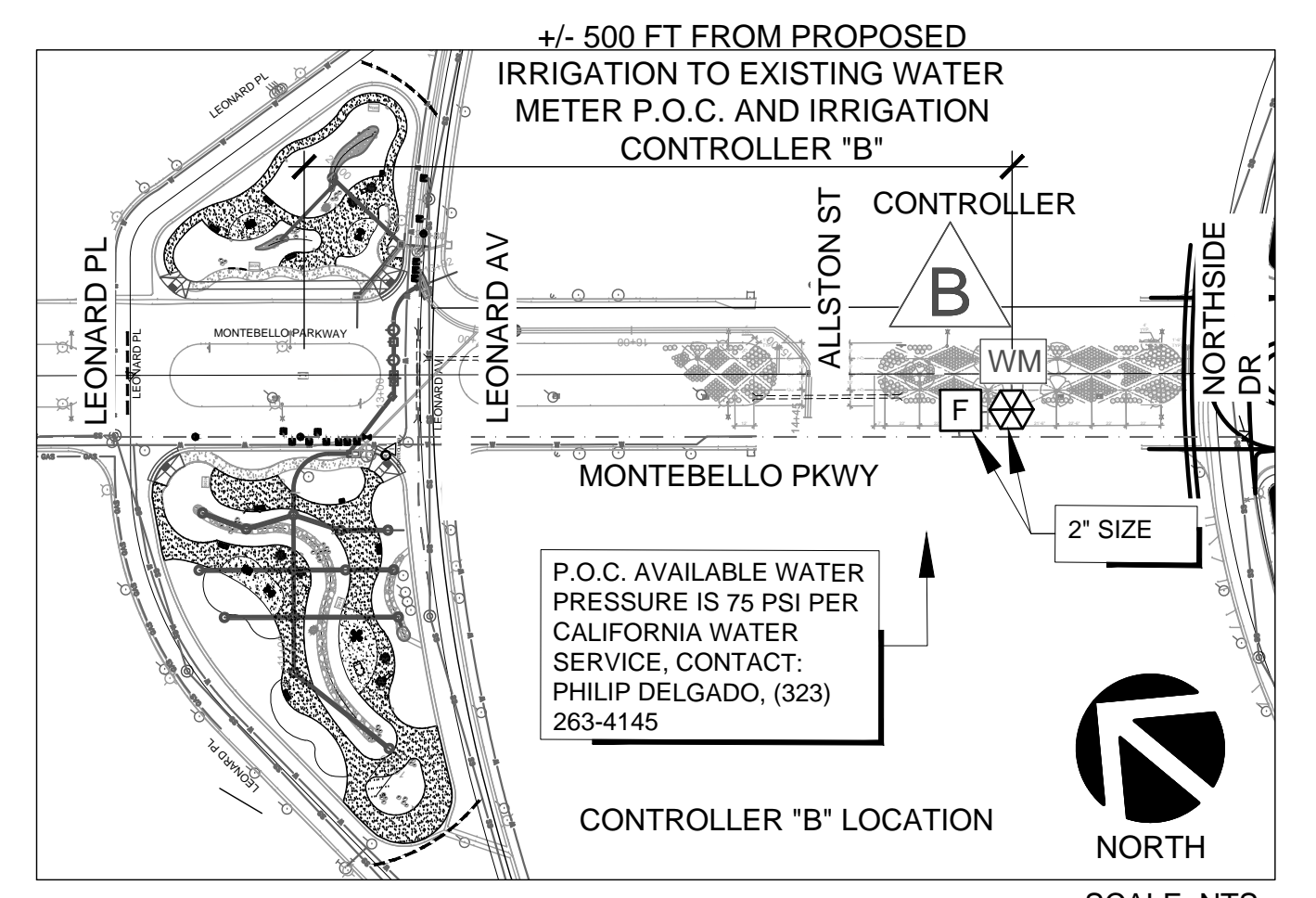
IRRIGATION EQUIPMENT LEGEND CONTINUED

WM	EXISTING WATER METER	REFER TO IRRIGATION INSTALLATION NOTES	SEE PLAN
▣	EXISTING REDUCED PRESSURE BACKFLOW ASSEMBLY / ENCLOSURE	REFER TO IRRIGATION INSTALLATION NOTES	SEE PLAN
P, F, X	EXISTING IRRIGATION EQUIPMENT: PRESSURE REGULATOR, MASTER VALVE, FLOW SENSOR	REFER TO SPECIAL PROVISIONS	SEE PLAN
X	MASTER VALVE (NORMALLY CLOSED)	REFER TO SPECIAL PROVISIONS	SEE PLAN
F	FLOW SENSOR	CALSENSE FM-2B	2"
R	RAIN SENSOR (ONE (1) NEW PER CONTROLLER)	CALSENSE RB-1	SEE PLAN
⋈	GATE VALVE	REFER TO SPECIAL PROVISIONS	LINE SIZE
—	PVC SUPPLY / FLUSH HEADERS	REFER TO SPECIAL PROVISIONS	SEE PLAN

NOTE:
1. SEE SHEET LS-11.00 FOR COMPLETE LISTING OF IRRIGATION LEGENDS

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL/TYPE	SIZE	DETAIL
□	REMOTE CONTROL VALVE	RAINBIRD	PEB-PRS-D	PER PLAN	H/LS-11.01
□*	REMOTE CONTROL VALVE - DRIP	RAINBIRD	XCZ-100-PRB-COM FLOW 4 - 15 GPM	1"	
□*	REMOTE CONTROL VALVE - DRIP	RAINBIRD	XCZ-150-PRB-COM FLOW 15 - 40 GPM	1.5"	
●	QUICK COUPLER	RAINBIRD	33 DLRC	0.75"	B/LS-11.01
E	EXISTING ELECTRICAL METER	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	



CALL 8-1-1 TOLL FREE

TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION

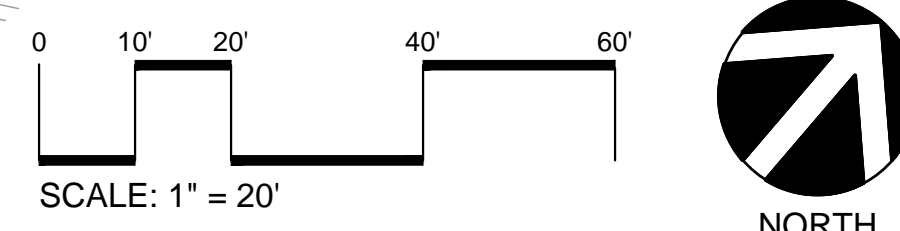


LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

IRRIGATION PLAN
MONTEBELLO PARKWAY

PROJECT LANDSCAPE ARCHITECT DATE LACFCDD INDEX NO. 116-D27 PCA SHEET 3 OF 27



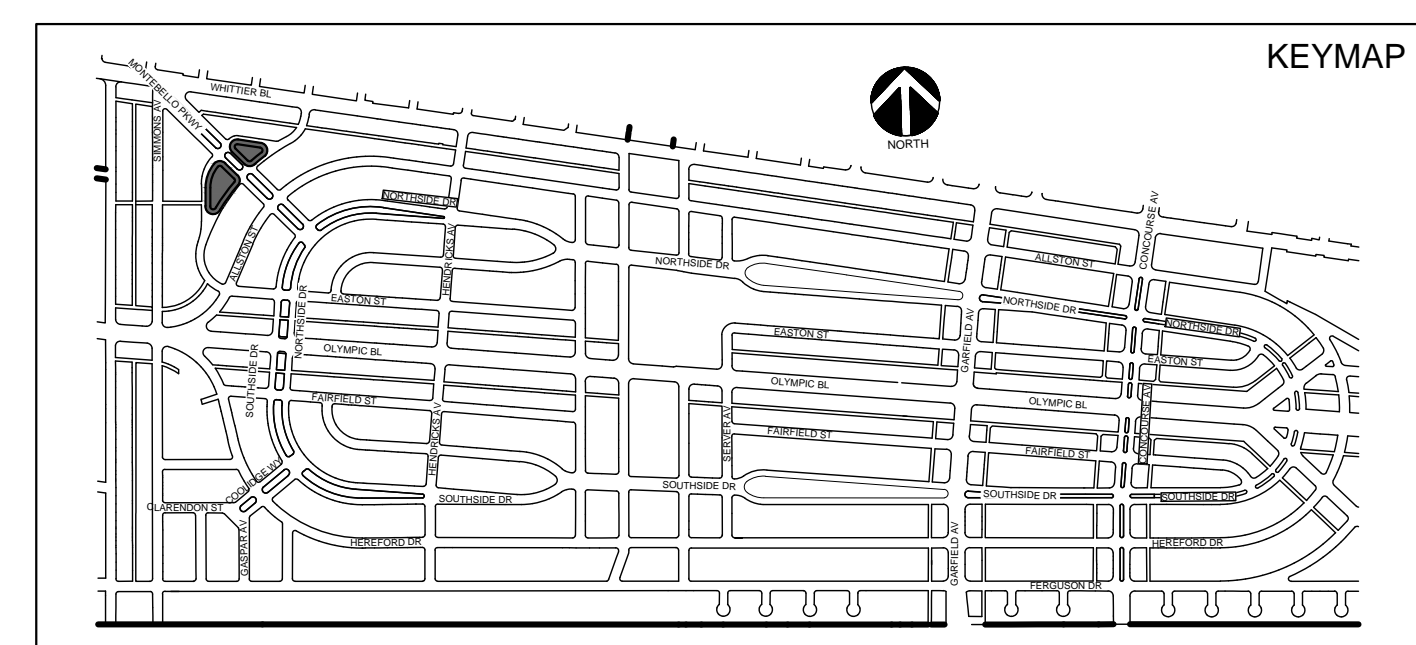
SHRUB AND GROUNDCOVER LEGEND

SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SETBACK*	O.C.	WUCOLS
	AGA ATT	AGAVE ATTENUATA	FOXTAIL AGAVE	5 GAL	94	3 FT.	6 FT.	VL
	ALO STR	ALOE STRIATA	CORAL ALOE	5 GAL	395	18"	3 FT.	VL
	BAC PIL	BACCHARIS PILULARIS	DWARF COYOTE BRUSH	1 GAL	772	3 FT.	6 FT.	L
	DIE IRI	DIETES IRIDIODES	AFRICAN IRIS	5 GAL	41	24"	4 FT.	M
	DIA REV	DIANELLA REVOLUTA	FLAX LILY	5 GAL	568	15"	2 FT.	L
	JUN PAT	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	224	12"	2 FT.	L
	LAN NEW	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	5 GAL	1261	18"	3 FT.	L
	LAN SEL	LANTANA SELLOWIANA	TRAILING PURPLE LANTANA AND WHITE LIGHTING 50/50 MIX	5 GAL	470	12"	4.5 FT.	L
	LAV STO	LAVANDULA STOECHAS	SPANISH LAVENDER	5 GAL	237	18"	3 FT.	L
	LOM BRE	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	963	15"	2 FT.	L
	MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	2013	18"	3 FT.	L
	MYO PAR	MYOPORUM PARVIFOLIUM	CREEPING MYOPORUM	5 GAL	497	3 FT.	6 FT.	L
	SAL LEU	SALVIA LEUCOPHYLLA	PURPLE SAGE	5 GAL	487	30"	5 FT.	L
	SAL GRE	SALVIA GREGGII	AUTUMN SAGE	5 GAL	1551	27"	4.5 FT.	L
	MIX A	'MIX A': 'BIOFILTRATION SOD'; NASSELLA PULCHRA, HORDEUM CALIFORNICUM, HORDEUM BRACHYANTHERUM, FESTUCA RUBRA	'MIX A': PURPLE NEEDLEGRASS, CALIFORNIA BARLEY, MEADOW BARLEY, MOLATE FESCUE	SOD	15,768 SF	-	-	L
	MIX B	'MIX B': IRIS DOUGLASIANA; JUNCUS PATENS		1 GAL	1860	12"	18"	L
	MIX C	'MIX C': 'NATIVE MOW FREE'; FESTUCA OCCIDENTALIS, FESTUCA IDAHOENSIS, FESTUCA RUBRA	'MIX C': WESTERN MOKELUMNE FESCUE, IDAHO FESCUE, MOLATE FESCUE	SOD	20,210 SF	-	-	L

NOTE: 1. PLANT QUANTITY ON LEGEND REFLECTS OVERALL TOTAL QUANTITY FOR THE ENTIRE PROJECT.
2. SETBACK IS FROM ADJACENT HARDSCAPE.

TREE LEGEND

SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	WUCOLS
	CER OCC	CERCIS OCCIDENTALIS	WESTERN REDBUD	15 GAL	48	L
	CHI TAS	CHITALPA TASHKENTENSIS	CHITALPA	15 GAL	16	L
	JAC MIM	JACARANDA MIMOSIFOLIA	JACARANDA	15 GAL	58	L
	LOP CON	LOPHOSTEMON CONFERTUS	BRISBANE BOX	15 GAL	84	M
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	15 GAL	39	M
	ULM PAR	ULMUS PARVIFOLIA	CHINESE ELM	15 GAL	55	L
			EXISTING TREE - PROTECT IN PLACE			



CALL 8-1-1 TOLL FREE

TWO WORKING DAYS BEFORE YOU DIG

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REVISIONS		

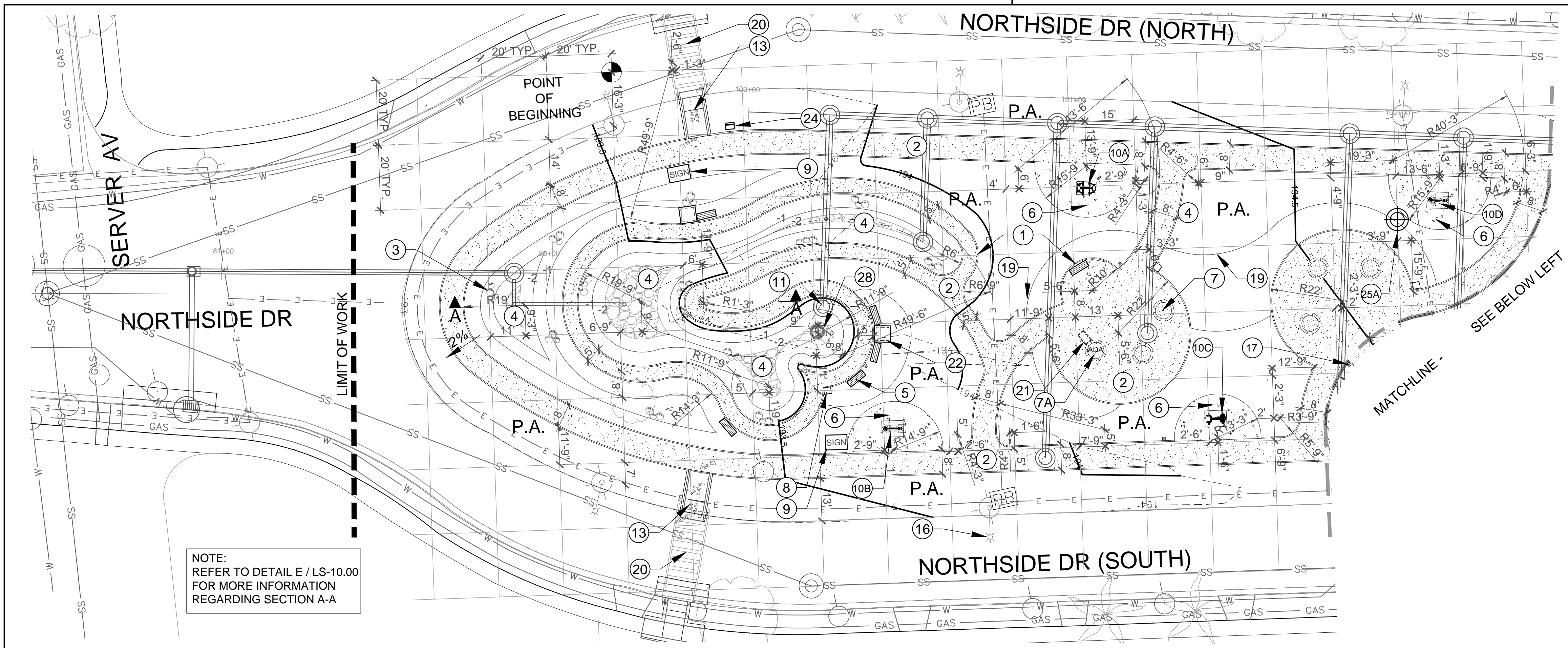
LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES MEDIANS SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

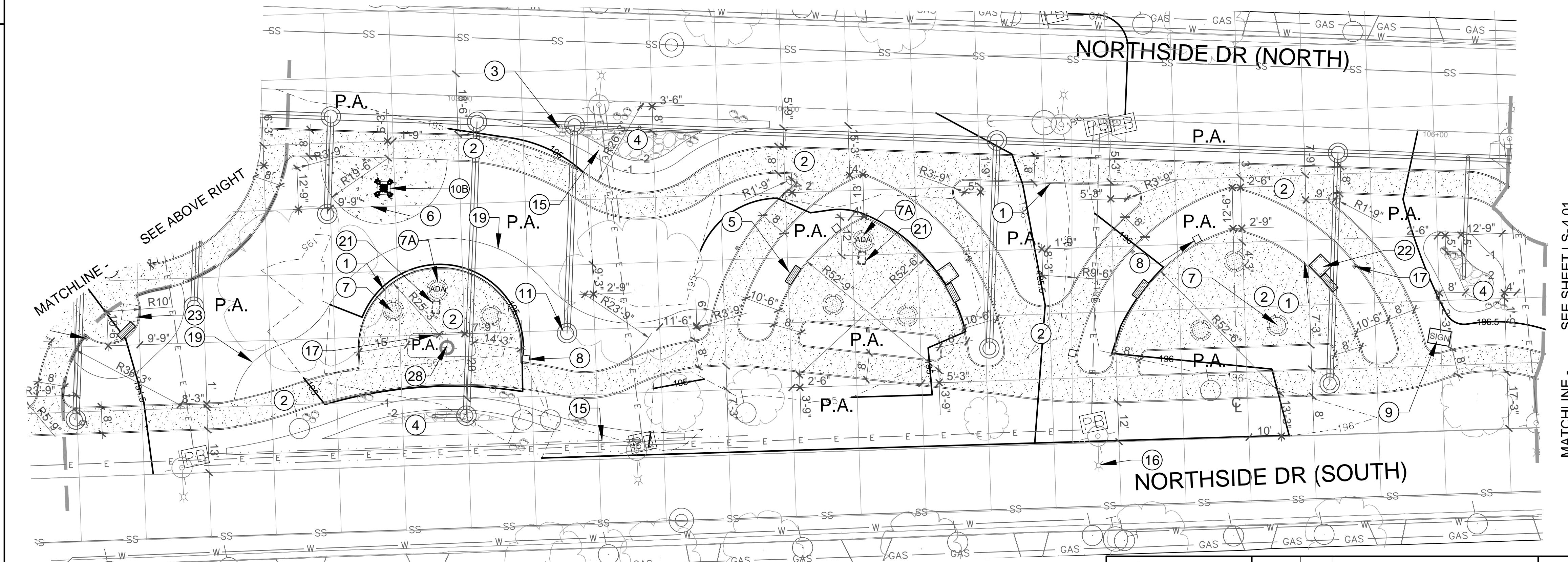
PLANTING PLAN
MONTEBELLO PARKWAY

LS-3.00

LACFCD INDEX NO. 116-D27 PCA SHEET 4 OF 27

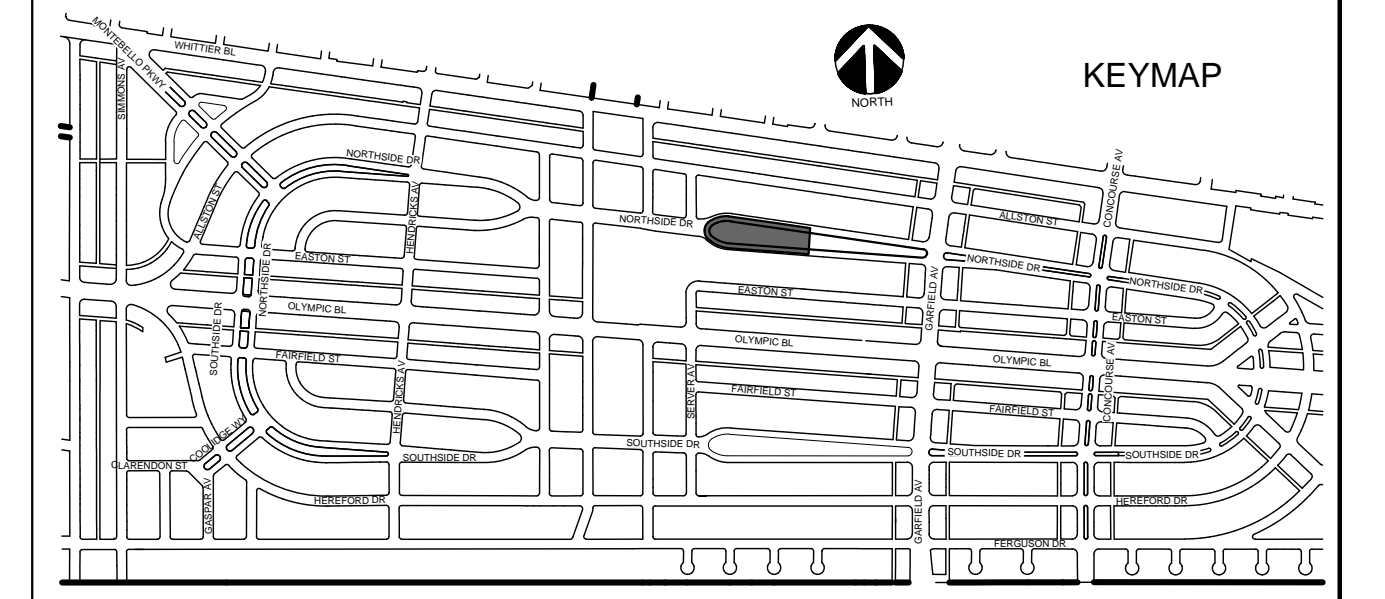
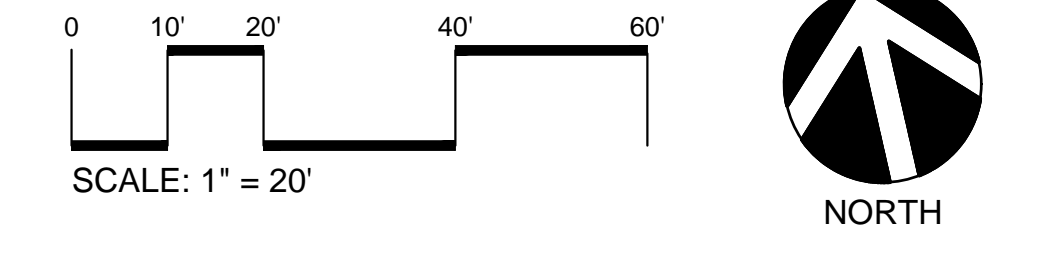


NOTE:
REFER TO DETAIL E / LS-10.00
FOR MORE INFORMATION
REGARDING SECTION A-A



NOTE:
1. SEE SHEET LS-4.01 FOR CONSTRUCTION MATERIALS LEGEND

SEE SHEET LS-4.01

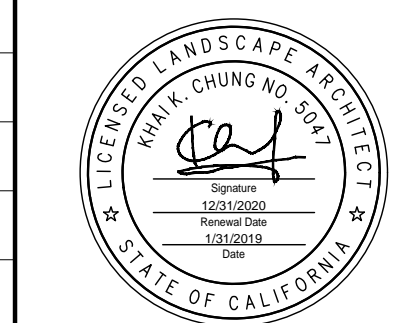


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TWO WORKING DAYS
BEFORE YOU DIG

DATE	MK	DESCRIPTION
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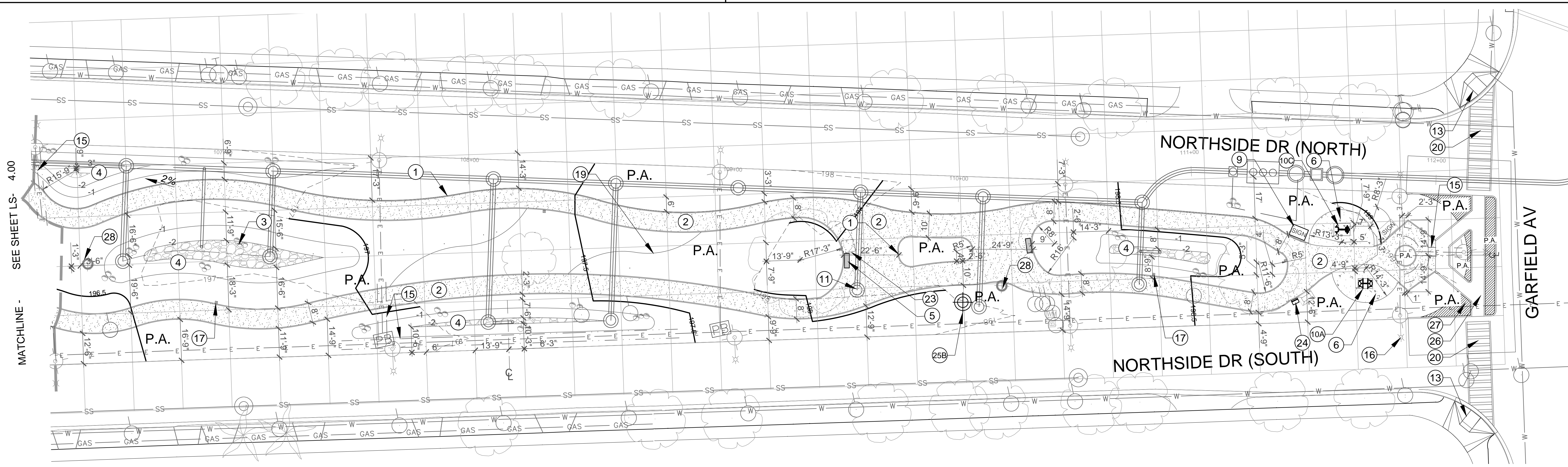
LOS ANGELES COUNTY PUBLIC WORKS

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STORMWATER CAPTURE PROJECT**
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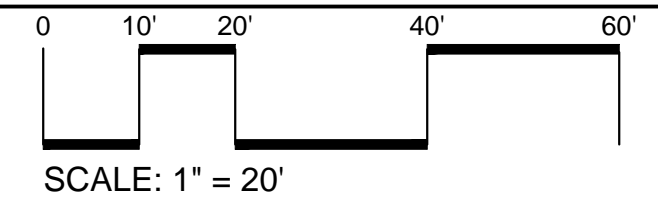
CONSTRUCTION PLAN
NORTHSIDE DR. MEDIAN

LS-4.00

LACFCD INDEX NO. 116-D27 PCA SHEET 5 OF 27



SEE SHEET LS- 4.00
MATCHLINE -

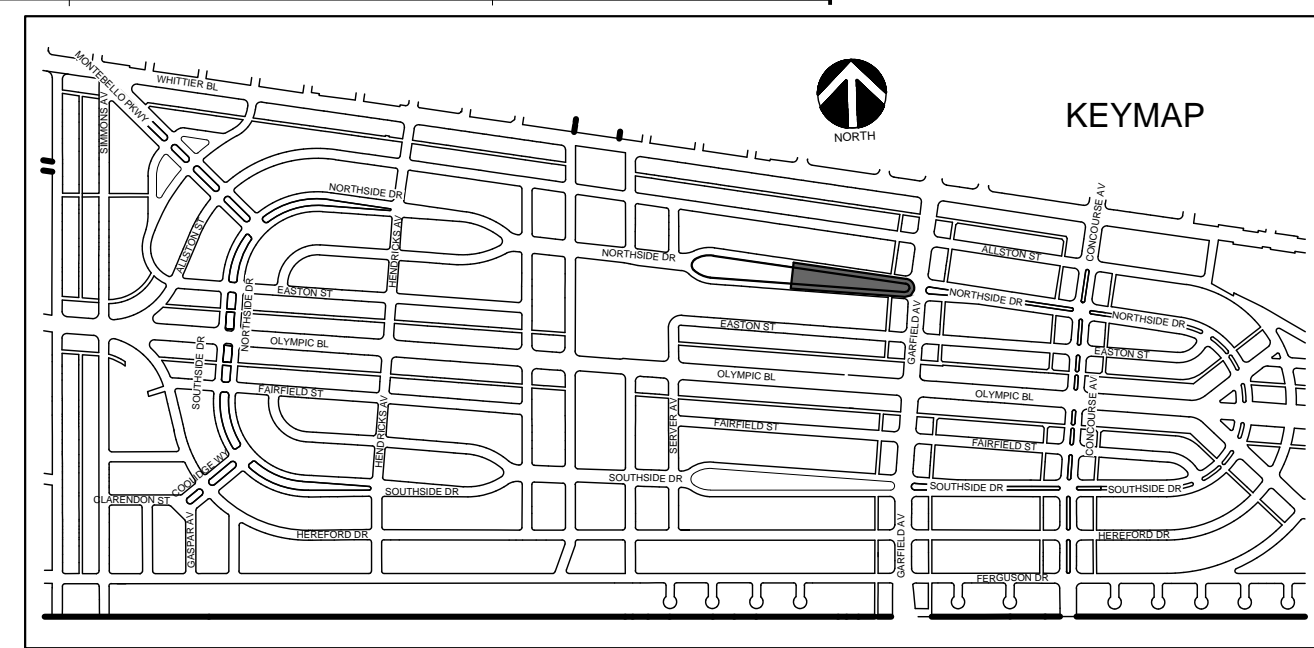


CONSTRUCTION MATERIALS LEGEND

SYMBOL	NUMBER	DESCRIPTION	TYPE	SIZE	COLOR	MANUFACTURER / MODEL	DETAIL
	1	CONCRETE HEADER	4" WIDE HEADER	---	NATURAL GRAY	---	DET B / LS-10.00
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	3	DECORATIVE BOULDERS	ROUND GRANITE BOULDERS, REFER TO SPECIAL PROVISIONS	18" - 3'	NATURAL GRAY	REFER TO SPECIAL PROVISIONS	DET G / LS-10.00
	4	RIVER ROCK COBBLE	REFER TO SPECIAL PROVISIONS	6" - 8"	NATURAL GRAY	REFER TO SPECIAL PROVISIONS	DET C / LS-10.00
	5	CONCRETE PARK BENCH (W/CONC. FOOTING)	CONCRETE BENCH W/ANTI-SKATE BUMPS, REFER TO CONSTRUCTION NOTES	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	DET C / LS-10.01
	6	CONCRETE WALKWAY	---	4" THICK	NATURAL GRAY MEDIUM BROOM FINISH	---	DET A / LS-10.00
	7	CONCRETE PICNIC TABLE	ROUND CONCRETE PICNIC TABLE WITH BUILT IN SEATING	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	---
	7A	CONCRETE PICNIC TABLE ADA ACCESSIBLE	ROUND CONCRETE PICNIC TABLE WITH BUILT IN SEATING W/ ADA ACCESS	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	---
	8	CONCRETE TRASH RECEPTACLE	ROUND TOP RECEPTACLE, SIDE OPENING	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	DET H / LS-10.00
	9	INTERPRETIVE SIGN	FULL COLOR INTERPRETIVE SIGN MOUNTED TO METAL FRAME	W:2' X L:3' X H:3'-10"	GREEN	REFER TO SPECIAL PROVISIONS	DET D / LS-10.00
	10A	PARACOURSE EXERCISE EQUIP. STATION A	4-PERSON PENDULUM, ABS AND DIPS	---	---	REFER TO SPECIAL PROVISIONS	DET B,C / LS-10.02
	10B	PARACOURSE EXERCISE EQUIP. STATION B	2-PERSON UPPER BODY COMBO	---	---		
	10C	PARACOURSE EXERCISE EQUIP. STATION C	2-PERSON ACCESSIBLE CHEST PRESS	---	---		
	10D	PARACOURSE EXERCISE EQUIP. STATION D	4-PERSON LEG PRESS	---	---		
	11	DRY WELL PER PLAN DR.	---	---	---	---	---
	12	CONCRETE HIGH CURB	6" WIDE	---	NATURAL GRAY	---	---
	13	CURB RAMP, PER PLAN DR	---	---	---	---	---
	14	CURB CUT - TYP.	---	---	---	---	DET B / LS-10.01
	15	STREET LIGHTING APPURTENANCES, REFER TO CONSTRUCTION NOTES LS-10.01	---	---	---	---	---

CONSTRUCTION MATERIALS LEGEND CONT.

SYMBOL	NUMBER	DESCRIPTION	TYPE	SIZE	COLOR	MANUFACTURER / MODEL	DETAIL
	16	EXISTING LIGHT TO REMAIN	---	---	---	---	---
	17	PEDESTRIAN BOLLARD LIGHTING	SOLAR POWERED LED LIGHT WITH LIGHTING PROFILE 02	35" HT.	BLACK	PLB102 TYPE 5 BY FIRSTLIGHT TECHNOLOGY TEL. 844-279-8754	DET A / LS-10.02
	18	4" PVC DRAIN PIPE	---	---	---	---	---
	19	PLANTING EDGE GUIDE	---	---	---	---	---
	20	CROSSWALK PER PLAN SP	---	---	---	---	---
	21	30" X 48" CLEAR FLOOR PER 11B-305 FOR: 11B-902 DINING SURFACE	---	---	---	---	---
	22	60" X 60" ADA CLEAR FLOOR SPACE & 4" THICK CONCRETE PAD	---	---	---	---	---
	23	60" X 60" ADA CLEAR FLOOR SPACE	---	---	---	---	---
	24	PET WASTE STATION	---	---	---	REFER TO SPECIAL PROVISIONS	DET D / LS-10.01
	25A	SOIL TEST ("A" - "F"): (6) LOCATION SITES FOR AGRONOMIC SOIL REPORT	REFER TO SPECIAL PROVISIONS	---	---	---	DET A / LS-10.01
	26	ISLAND PASSAGEWAY, REFER TO PLAN DR FOR REMOVALS AND CONSTRUCTION	---	---	---	---	---
	27	24" DEEP IMPORT TOPSOIL AT ISLAND PASSAGEWAY	REFER TO CONSTRUCTION NOTES	---	---	---	---
	28	EXISTING MONITORING WELLS	REFER TO CONSTRUCTION NOTES	---	---	---	---



CALL 8-1-1 TOLL FREE
811
TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		



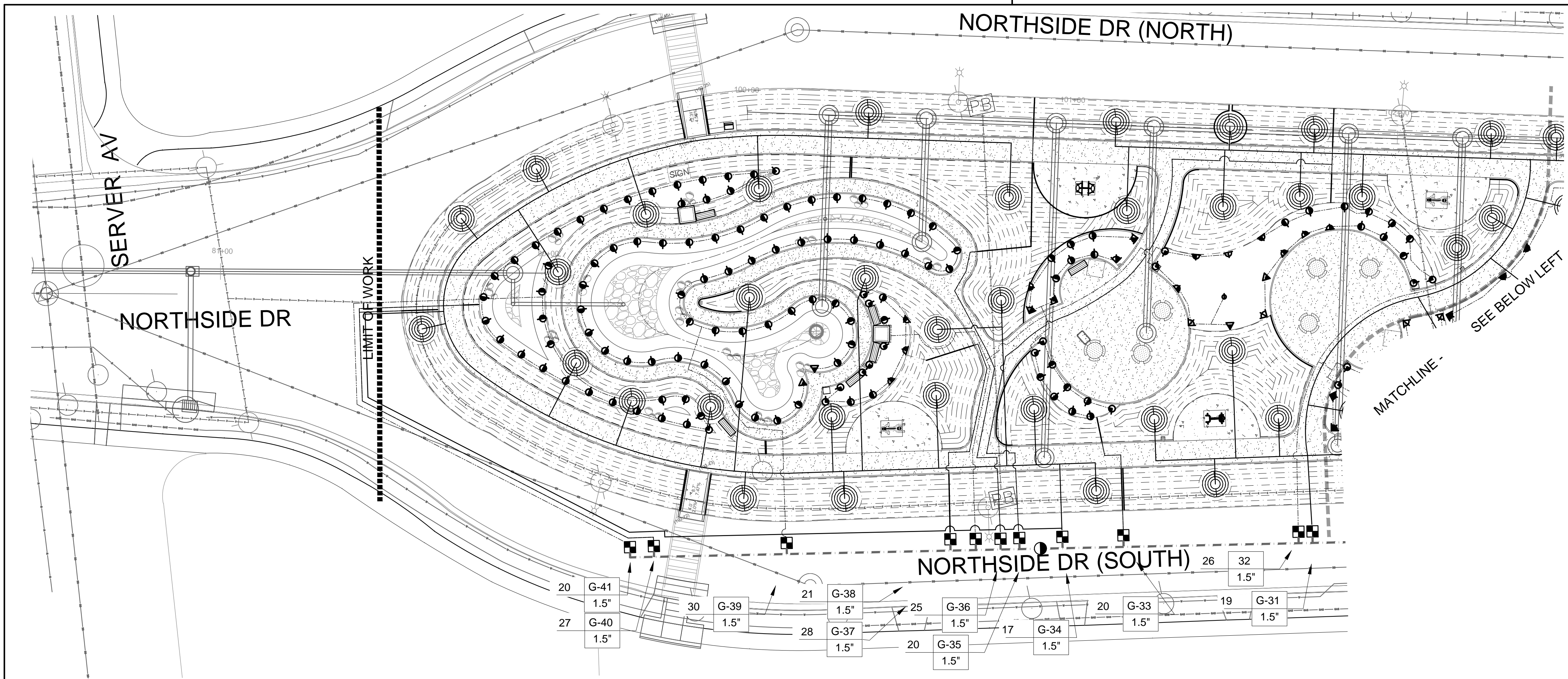
LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

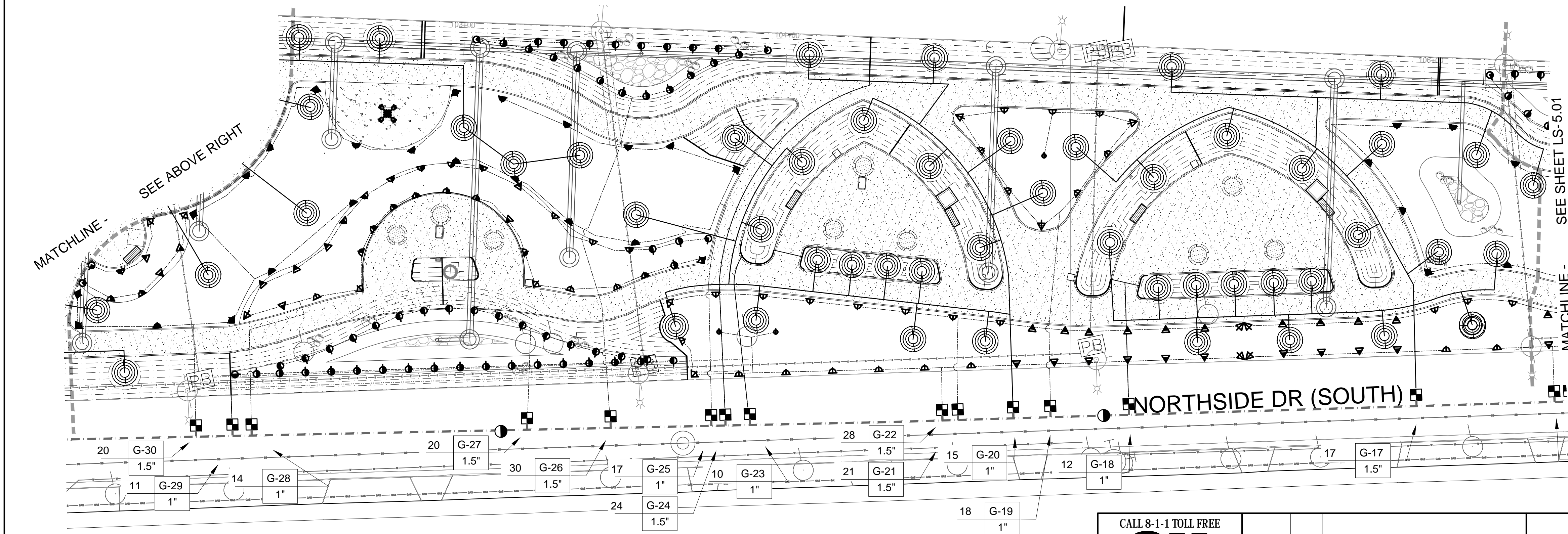
CONSTRUCTION PLAN
NORTHSIDE DR. MEDIAN

LS-4.01

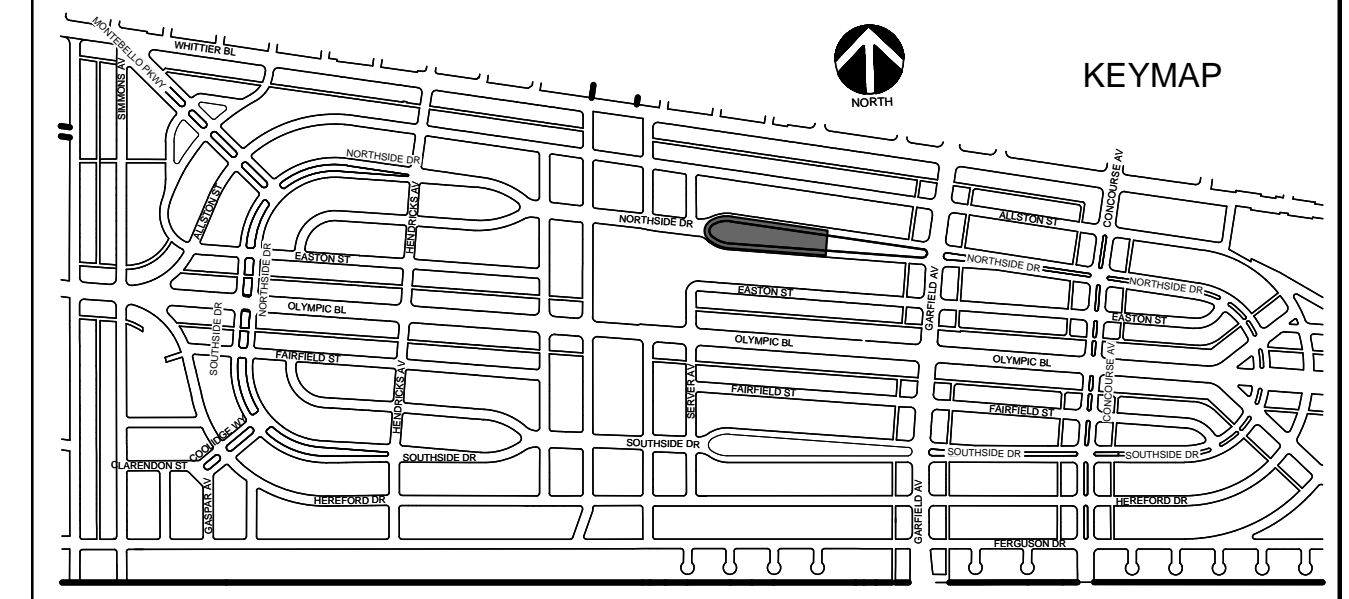
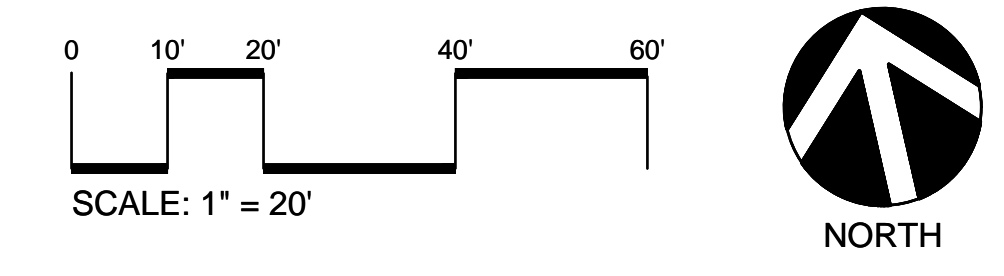
LACFCD INDEX NO. 116-D27 PCA SHEET 6 OF 27



20	G-41	1.5"	30	G-39	1.5"	21	G-38	1.5"	25	G-36	1.5"	20	G-33	1.5"	19	G-31	1.5"
27	G-40	1.5"				28	G-37	1.5"	20	G-35	1.5"	17	G-34	1.5"			



20	G-30	1.5"	20	G-27	1.5"	28	G-22	1.5"	15	G-20	1"	12	G-18	1"	17	G-17	1.5"
11	G-29	1"	14	G-28	1"	30	G-26	1.5"	17	G-25	1"	10	G-23	1"	21	G-21	1.5"
						24	G-24	1.5"				18	G-19	1"			



NOTE:
1. SEE SHEET LS-11.00 FOR COMPLETE LISTING OF IRRIGATION LEGENDS

CALL 8-1-1 TOLL FREE



TWO WORKING DAYS
BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		



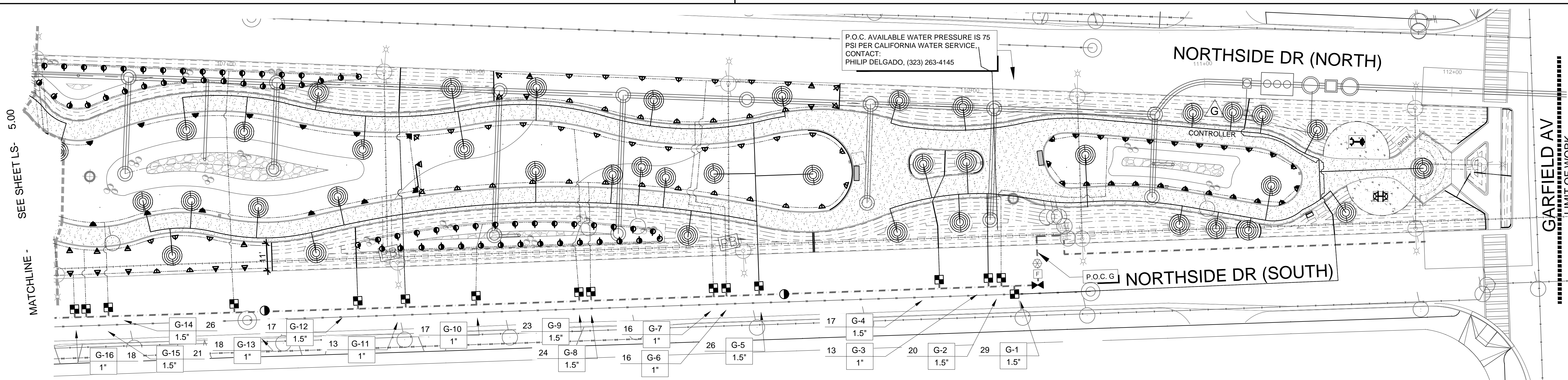
LOS ANGELES COUNTY PUBLIC WORKS

**EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT**
PROJECT ID NO. WMU0000010

IRRIGATION PLAN
NORTHSIDE DR. MEDIAN

LACFCD INDEX NO. 116-D27 PCA

LS-5.00
SHEET 7 OF 27



P.O.C. AVAILABLE WATER PRESSURE IS 75 PSI PER CALIFORNIA WATER SERVICE, CONTACT: PHILIP DELGADO, (323) 263-4145

SEE SHEET LS- 5.00
MATCHLINE -

GARFIELD AV
LIMIT OF WORK

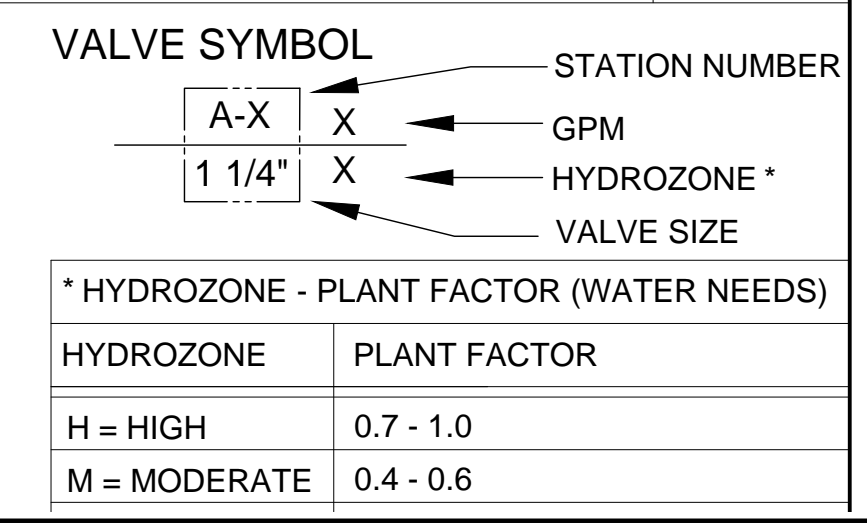
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL/TYPE	SIZE	DETAIL
(A)	AIR RELIEF VALVE	RAINBIRD	1/2" AIR RELIEF VALVE	0.5"	C/LS-11.02
IRRIGATION EQUIPMENT LEGEND					
(S)	REMOTE CONTROL VALVE	RAINBIRD	PEB-PRS-D	PER PLAN	H/LS-11.01
(S*)	REMOTE CONTROL VALVE - DRIP	RAINBIRD	XCZ-100-PRB-COM FLOW 4 - 15 GPM	1"	
(S*)	REMOTE CONTROL VALVE - DRIP	RAINBIRD	XCZ-150-PRB-COM FLOW 15 - 40 GPM	1.5"	
(C)	QUICK COUPLER	RAINBIRD	33 DLRC	0.75"	B/LS-11.01
(E)	EXISTING ELECTRICAL METER	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	
(WM)	EXISTING WATER METER	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	
(P)	EXISTING REDUCED PRESSURE BACKFLOW ASSEMBLY / ENCLOSURE	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	
(P)	EXISTING IRRIGATION EQUIPMENT: PRESSURE REGULATOR, MASTER VALVE, FLOW SENSOR	REFER TO SPECIAL PROVISIONS		SEE PLAN	
(F)	MASTER VALVE (NORMALLY CLOSED)	REFER TO SPECIAL PROVISIONS		SEE PLAN	A/LS-11.02
(F)	FLOW SENSOR	CALSENSE	FM-2B	2"	
(R)	RAIN SENSOR (ONE (1) NEW PER CONTROLLER)	CALSENSE	RB-1	SEE PLAN	G/LS-11.01
(G)	GATE VALVE	REFER TO SPECIAL PROVISIONS		LINE SIZE	A/LS--11.01
(H)	PVC SUPPLY / FLUSH HEADERS	REFER TO SPECIAL PROVISIONS		SEE PLAN	A/LS--11.02
(AND)	PVC LATERAL LINE SERVING DRIPLINE PVC LATERAL LINE SERVING POP-UP NOZZLES	REFER TO SPECIAL PROVISIONS		SEE PLAN	E/LS-11.01
(I)	PVC LATERAL LINE - TREES	REFER TO SPECIAL PROVISIONS		SEE PLAN	
(J)	MAIN LINE - EXISTING	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	
(K)	PIPE SLEEVE - NEW	SEE SLEEVING CHART			

SYMBOL	DESCRIPTION	ZONE	MANUFACTURER	MODEL/TYPE	SIZE	DETAIL
(B)	NEW CONTROLLER WITHIN EXISTING STEEL ENCLOSURE TO REMAIN. CONTROLLER LOCATED AT: MONTEBELLO PKWY FROM WHITTIER BLVD TO NORTHSIDE DR	ZONE 3	CALSENSE	CS3-48-S-UPGRADE/ (6) CS3-8STA-KIT/CS3-GR/ CS3-W-KIT/RB-1/COMM-5YR	48 STATION	F/LS-11.01
(G)	NEW CONTROLLER WITHIN EXISTING STEEL ENCLOSURE TO REMAIN. CONTROLLER LOCATED AT: NORTHSIDE DR, +/- 200 FT W/O GARFIELD AV	ZONE 7	CALSENSE	EXISTING ET2000E-16-GR-RRE-SSER- SERIAL #42898 CS3-S-UPGRADE/ CS3-8STA-KIT(2)/COMM-5YR	32 STATION	
(H)	NEW CONTROLLER AND NEW STEEL ENCLOSURE. CONTROLLER LOCATED AT: SOUTHSIDE DR +/- 740 FT W/O GARFIELD AV	ZONE 8	CALSENSE	EXISTING ET1-16-DR/SERIAL #5919 CS3-S-UPGRADE/ CS3-SSE-1-ASSEM/PAD/ CS3-8STA-KIT(2)/ CS3-GR/GR-STUBBY/COMM-5YR	32 STATION	

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	NOZZEL	RADIUS	GPM	PSI	PATTERN	DETAIL
(S)	12" POP-UP ROTARY SPRAY HEAD	RAINBIRD	1812-SAM-PRS	R-VAN 1724	24	2.26	30	FULL	C/LS-11.01
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	R-VAN 1724	24	1.41	30	HALF	
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	R-VAN 1724	24	0.73	30	QUARTER	
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- F	15	3.70	30	FULL	
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	15	1.85	30	HALF	
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	15	0.93	30	QUARTER	
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	12	1.18	30	HALF	
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	12	0.59	30	QUARTER	
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	10	0.89	30	HALF	
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	10	0.45	30	QUARTER	
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	8	0.59	30	FULL	
(S)	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	8	0.29	30	QUARTER	

NOTE:
1. SEE SHEET LS-11.00 FOR COMPLETE LISTING OF IRRIGATION LEGENDS

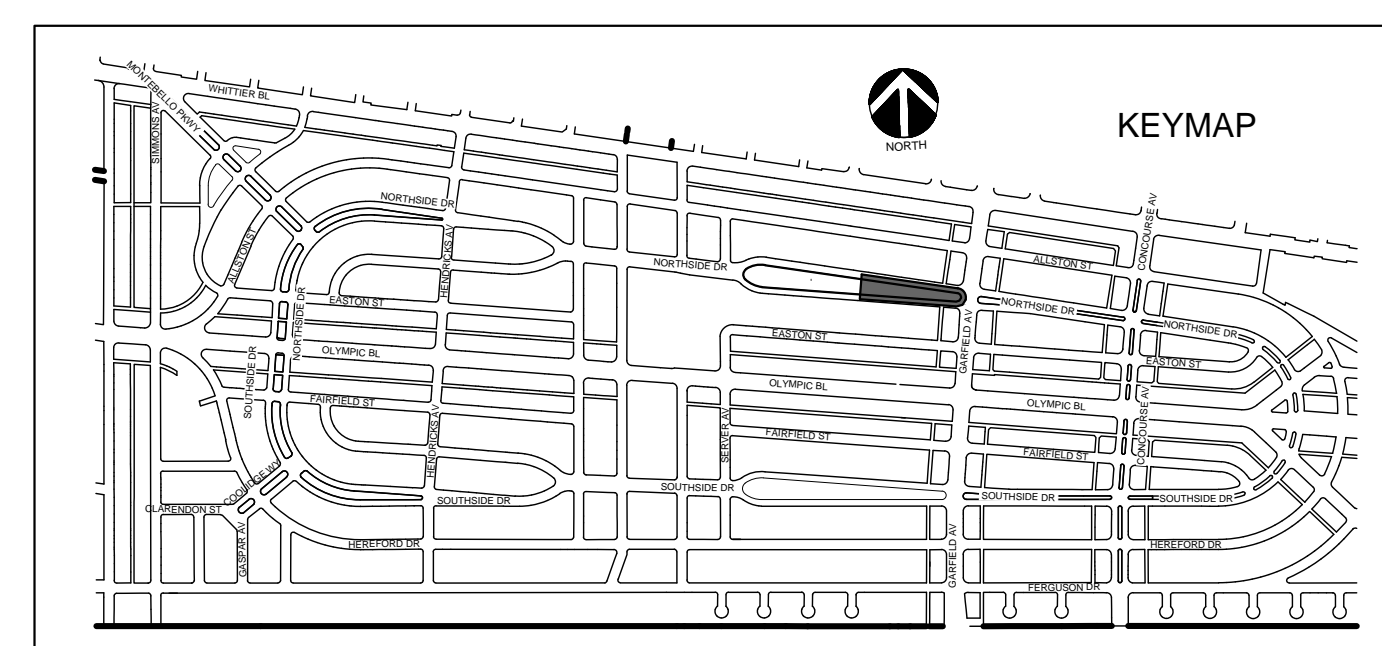
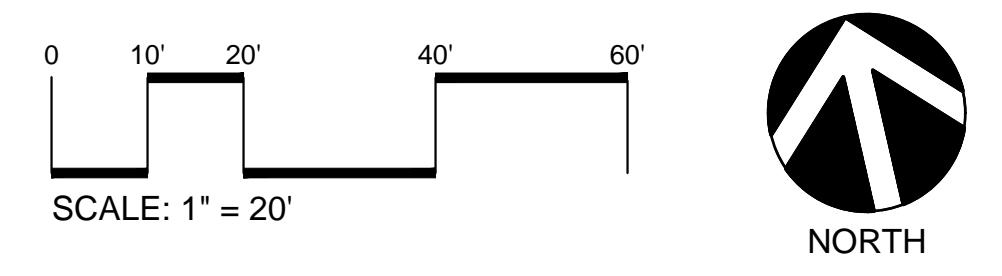
SLEEVE SIZE	PVC CLASS	PIPE SIZE	WIRES	PIPE SIZING CHART	
				GPM	PIPE SIZE
1.25"	SCH 40	0.5"	1 - 4	1 - 7	0.75"
1.5"	SCH 40	0.75"	5 - 10	9 - 12	1"
2"	CLASS 315	1"	11 - 20	14 - 22	1.25"
2.5"	CLASS 315	1.25"	21 - 30	23 - 30	1.50"
3"	CLASS 315	1.5"	31 - 40	31 - 50	2"
4"	CLASS 315	2"	41 - 60		



WATER METER POC "G" - NORTHSIDE DR / GARFIELD AVE
VALVE NUMBER: G-39 (30 GPM)
(FARTHEST RCV USING 2" MAIN)
WATER PRESSURE: 75 PSI

WATER PURVEYOR:
CALIFORNIA WATER SERVICE
323-263-4145
5243 E. SHEILA ST
COMMERCE, CA 90040

ITEM	QUANTITY	UNIT PRICE	TOTAL
PRESSURE LOSS METER 2"	1	1.80	1.80
BACKFLOW PREVENTER 2"	1	12.00	12.00
MASTER GATE VALVE 2"	1	1.50	1.50
GATE VALVE (.5 LOSS PER VALVE)	1	1.50	1.50
REMOTE CONTROL VALVE (1.5")	1	3.60	3.60
ELEVATION DIFFERENTIAL -5'	1	-2.17	-2.17
MAIN LINE 2"	1	9.34	9.34
LATERAL LINES 1 1/2"	1	2.13	2.13
LATERAL LINES 1 1/4"	1	1.02	1.02
LATERAL LINES 1"	1	0.67	0.67
LATERAL LINES 3/4"	1	1.36	1.36
SUB TOTAL		32.75	32.75
MISCELLANEOUS (10%)		3.28	3.28
FRICITION LOSS TOTAL:		36.03	36.03
SYSTEM DESIGN PRESSURE:		30.00	30.00
RESIDUAL PRESSURE:		8.97	8.97



CALL 8-1-1 TOLL FREE

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DATE	MK	DESCRIPTION



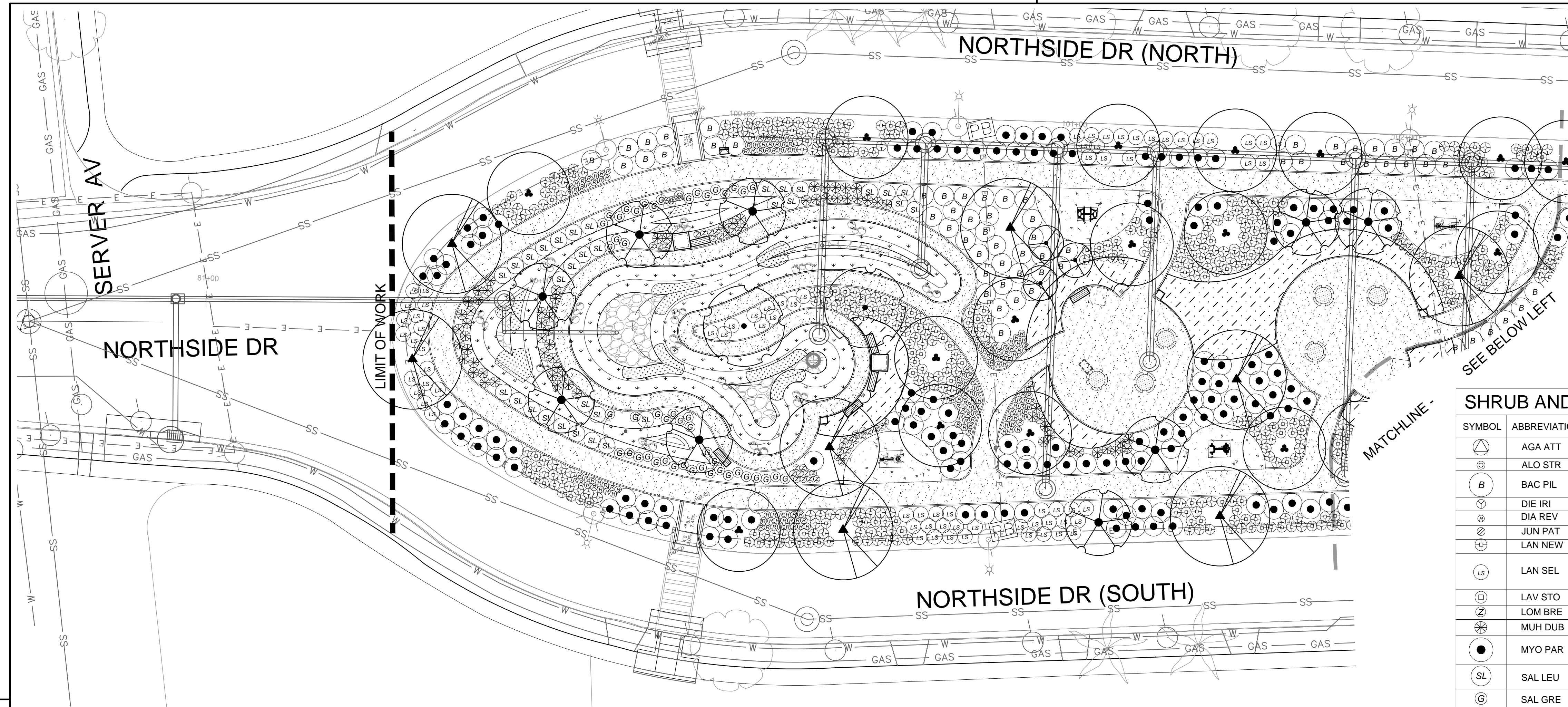
LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU000010

IRRIGATION PLAN
NORTHSIDE DR. MEDIAN

LS-5.01

LACFCD INDEX NO. 116-D27 PCA SHEET 8 OF 27



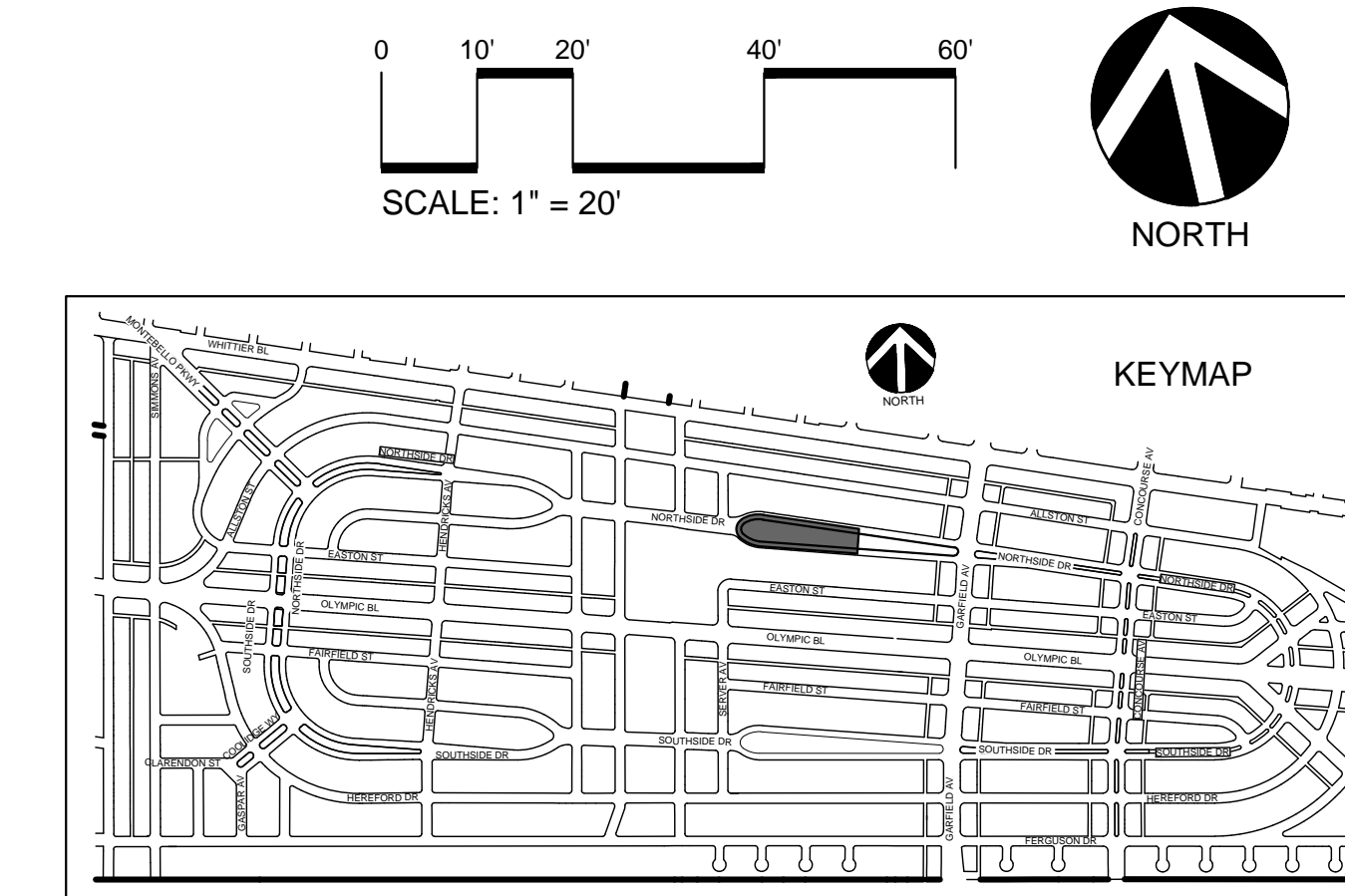
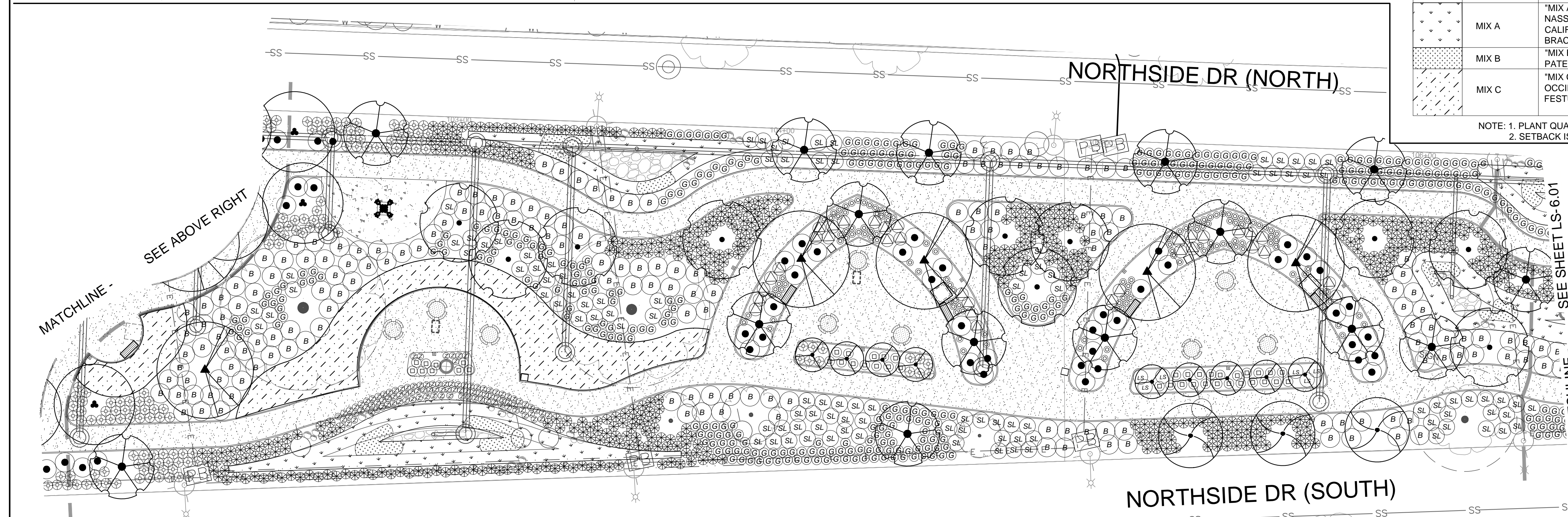
TREE LEGEND

SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	WUCOLS
	CER OCC	CERCIS OCCIDENTALIS	WESTERN REDBUD	15 GAL	48	L
	CHI TAS	CHITALPA TASHKENTENSIS	CHITALPA	15 GAL	16	L
	JAC MIM	JACARANDA MIMOSIFOLIA	JACARANDA	15 GAL	58	L
	LOP CON	LOPHOSTEMON CONFERTUS	BRISBANE BOX	15 GAL	84	M
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	15 GAL	39	M
	ULM PAR	ULMUS PARVIFOLIA	CHINESE ELM	15 GAL	55	L
		EXISTING TREE - PROTECT IN PLACE				

SHRUB AND GROUNDCOVER LEGEND

SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SETBACK*	O.C.	WUCOLS
	AGA ATT	AGAVE ATTENUATA	FOXTAIL AGAVE	5 GAL	94	3 FT.	6 FT.	VL
	ALO STR	ALOE STRIATA	CORAL ALOE	5 GAL	395	18"	3 FT.	VL
	BAC PIL	BACCHARIS PILLULARIS	DWARF COYOTE BRUSH	1 GAL	772	3 FT.	6 FT.	L
	DIE IRI	DIETES IRIDIODES	AFRICAN IRIS	5 GAL	41	24"	4 FT.	M
	DIA REV	DIANELLA REVOLUTA	FLAX LILY	5 GAL	568	15"	2 FT.	L
	JUN PAT	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	224	12"	2 FT.	L
	LAN NEW	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	5 GAL	1261	18"	3 FT.	L
	LAN SEL	LANTANA SELLOWIANA	TRAILING PURPLE LANTANA AND WHITE LIGHTING 50 / 50 MIX	5 GAL	470	12"	4.5 FT.	L
	LAV STO	LAVANDULA STOECHAS	SPANISH LAVENDER	5 GAL	237	18"	3 FT.	L
	LOM BRE	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	963	15"	2 FT.	L
	MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	2013	18"	3 FT.	L
	MYO PAR	MYOPORUM PARVIFOLIUM	CREEPING MYOPORUM	5 GAL	497	3 FT.	6 FT.	L
	SAL LEU	SALVIA LEUCOPHYLLA	PURPLE SAGE	5 GAL	487	30"	5 FT.	L
	SAL GRE	SALVIA GREGGII	AUTUMN SAGE	5 GAL	1551	27"	4.5 FT.	L
	MIX A	"MIX A": BIOFILTRATION SOD; NASSELLA PULCHRA, HORDEUM CALIFORNICUM, HORDEUM BRACHYANTHERUM, FESTUCA RUBRA	"MIX A": PURPLE NEEDLEGRASS, CALIFORNIA BARLEY, MEADOW BARLEY, MOLATE FESCUE	SOD	15,768 SF	-	-	L
	MIX B	"MIX B": IRIS DOUGLASSIANA; JUNCUS PATENS		1 GAL	1860	12"	18"	L
	MIX C	"MIX C": NATIVE MOW FREE; FESTUCA OCCIDENTALIS, FESTUCA IDAHOENSIS, FESTUCA RUBRA	"MIX C": WESTERN MOKELUMNE FESCUE, IDAHO FESCUE, MOLATE FESCUE	SOD	20,210 SF	-	-	L

NOTE: 1. PLANT QUANTITY ON LEGEND REFLECTS OVERALL TOTAL QUANTITY FOR THE ENTIRE PROJECT.
2. SETBACK IS FROM ADJACENT HARDSCAPE.



CALL 8-1-1 TOLL FREE

TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		

PROJECT LANDSCAPE ARCHITECT DATE

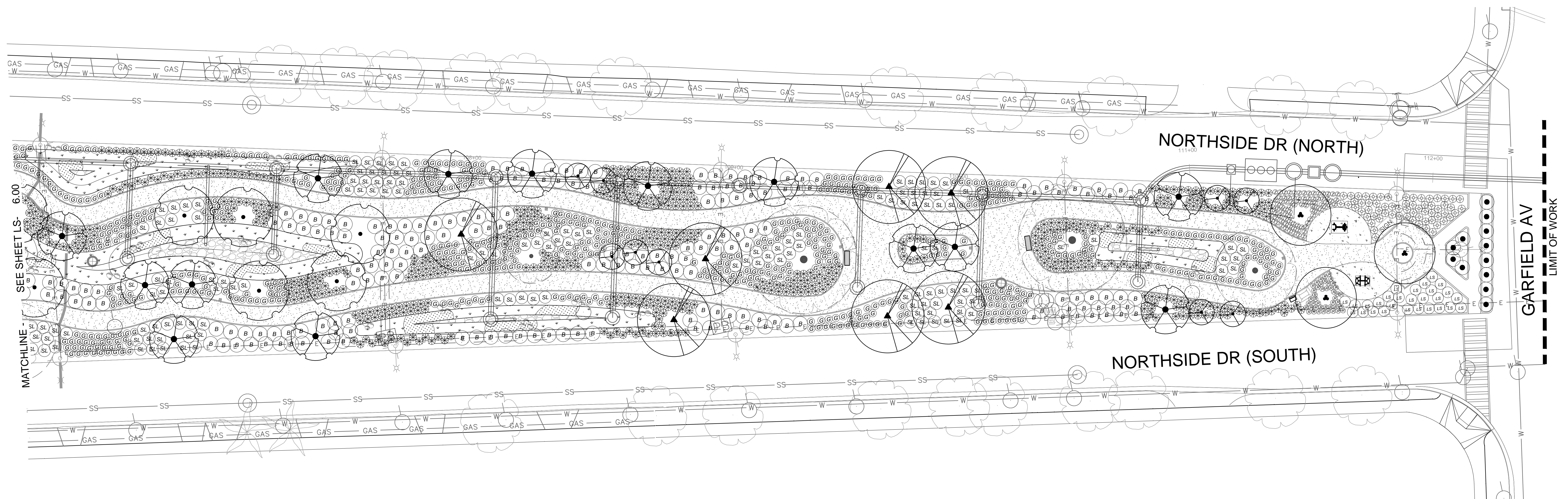
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EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

PLANTING PLAN
NORTHSIDE DR. MEDIAN

LACFCD INDEX NO. 116-D27 PCA SHEET 9 OF 27

LS-6.00



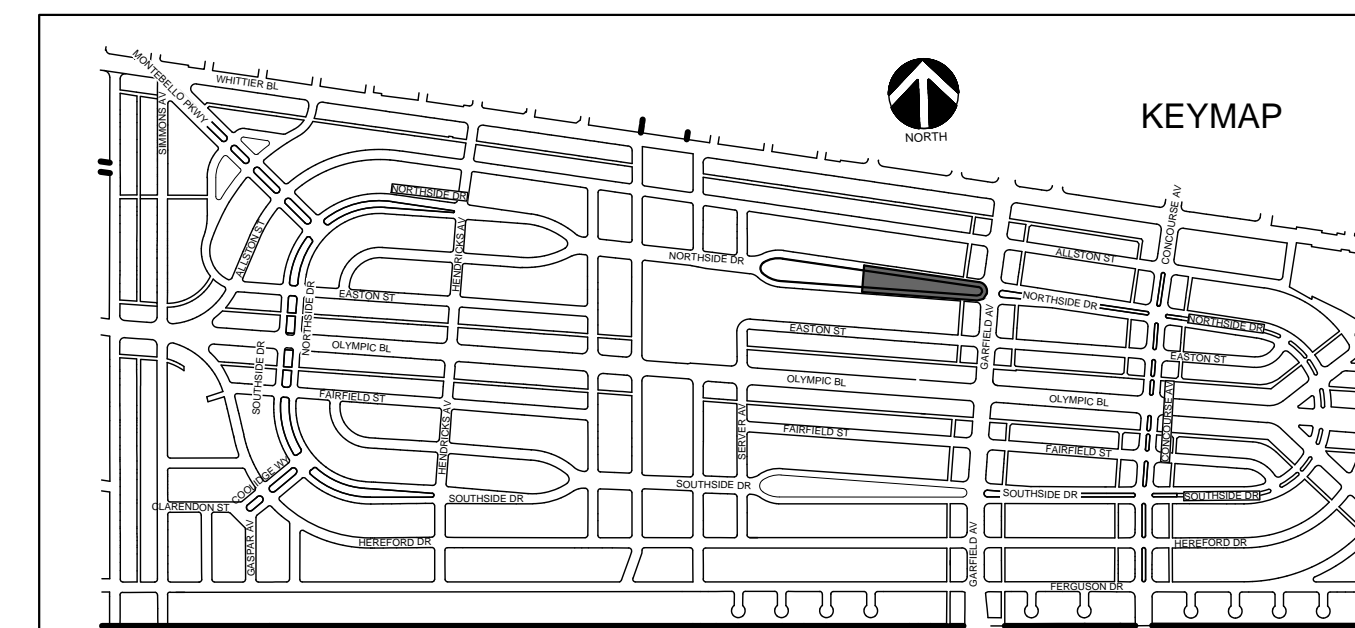
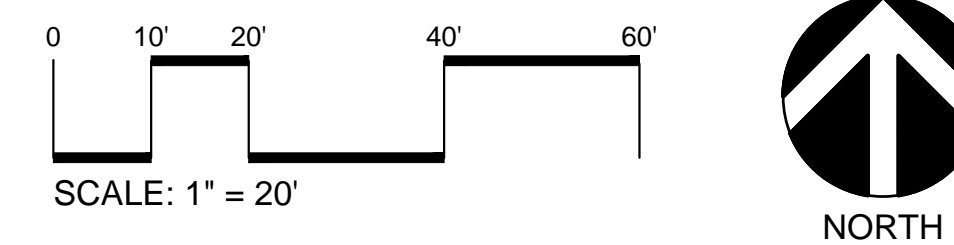
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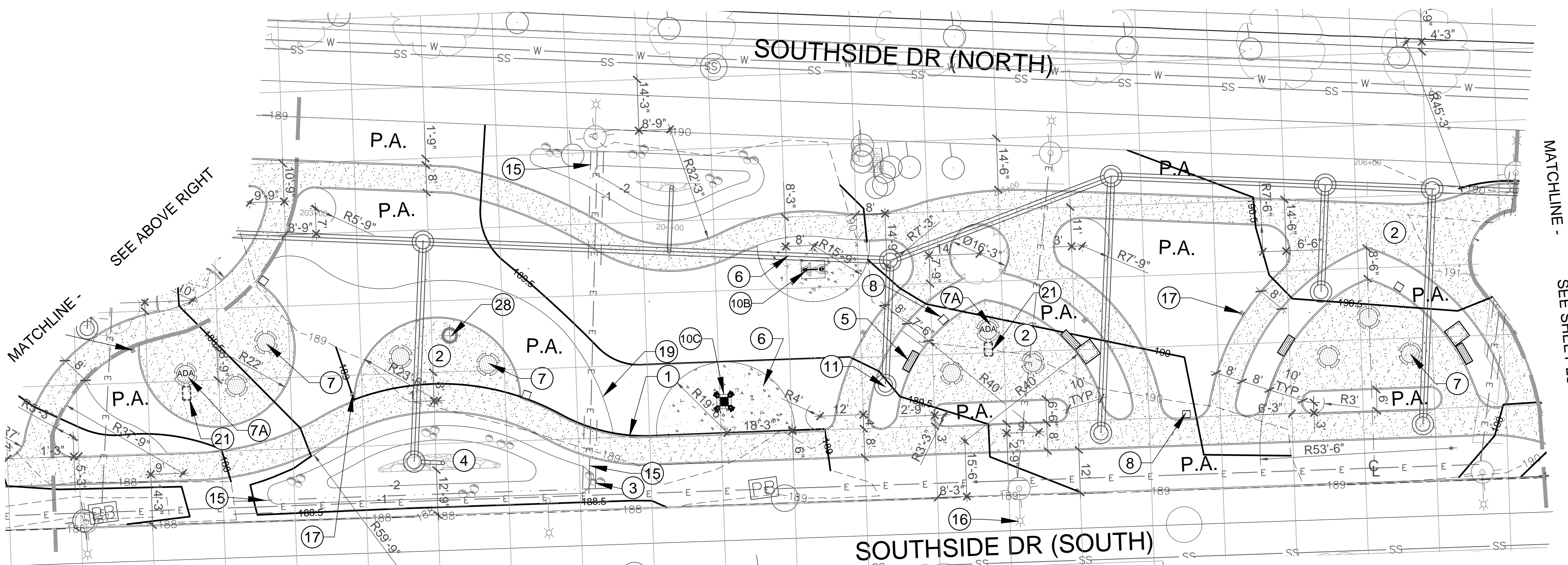
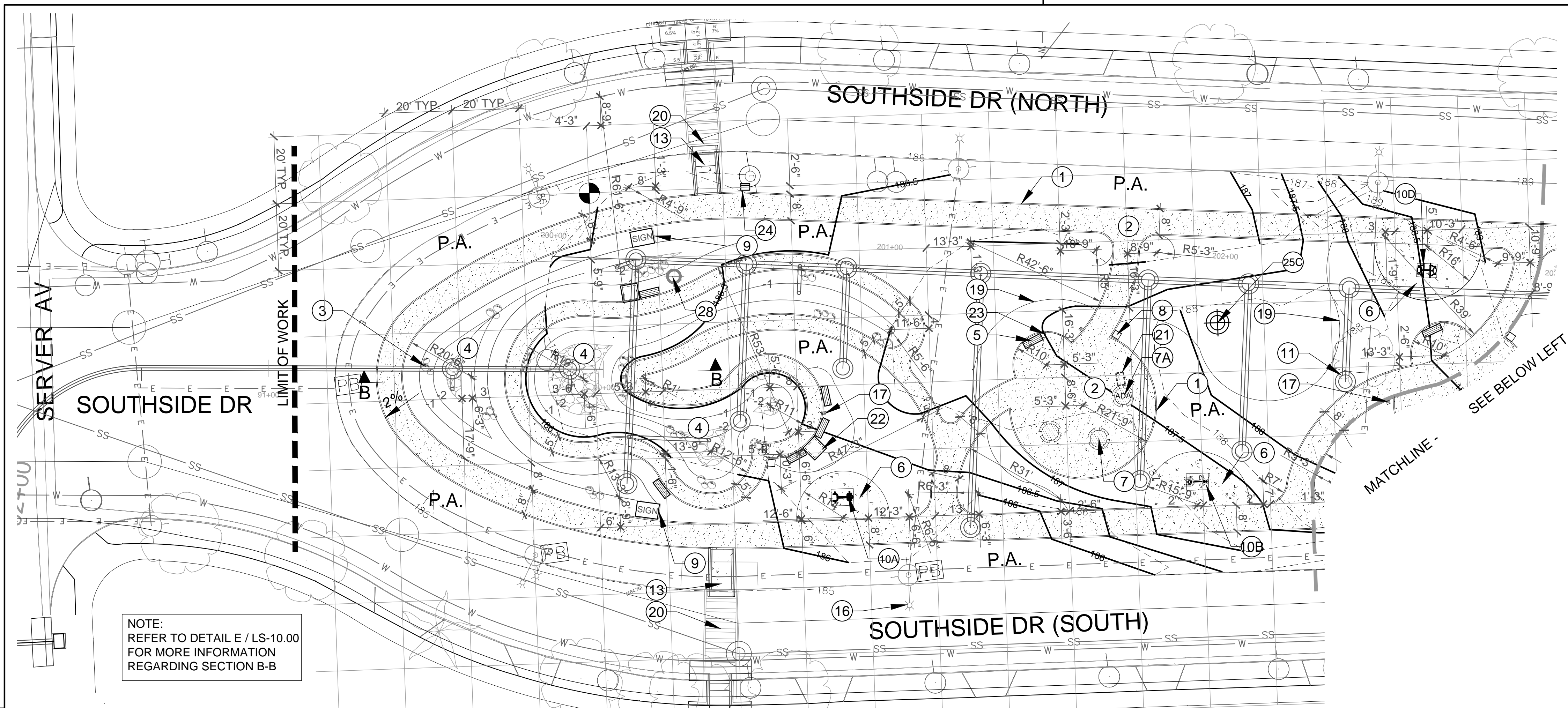
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EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU000010

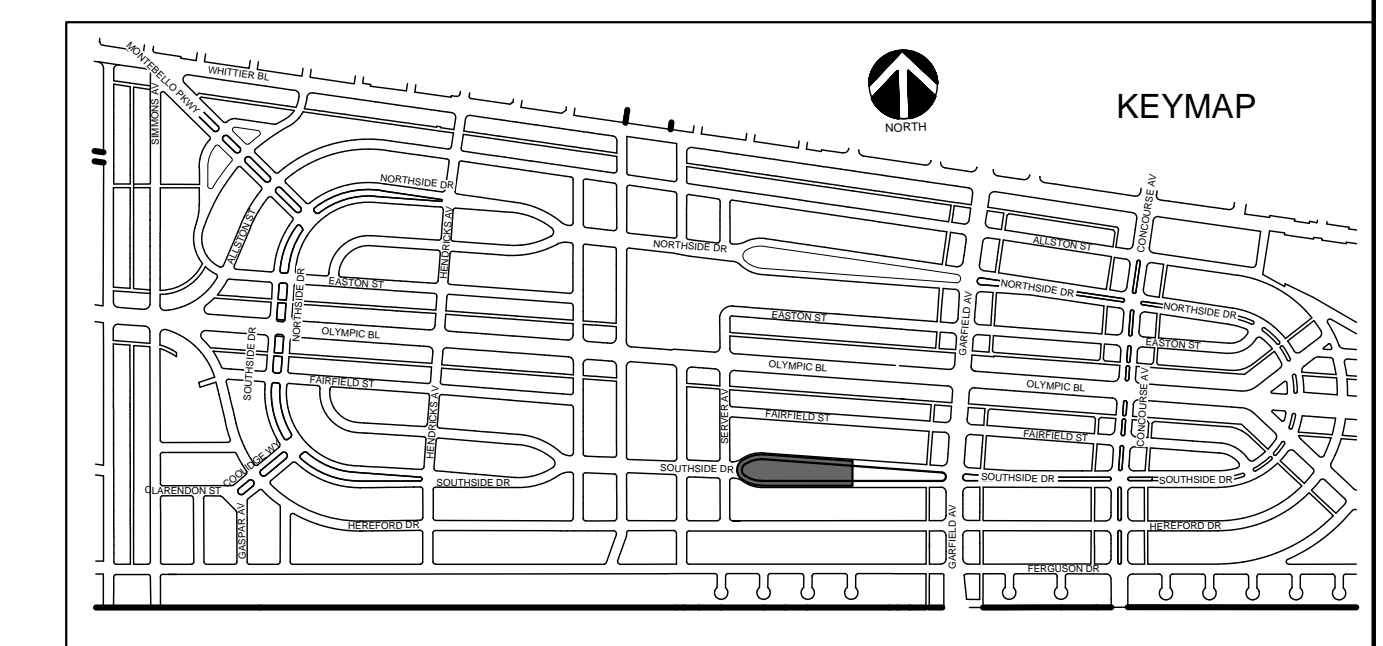
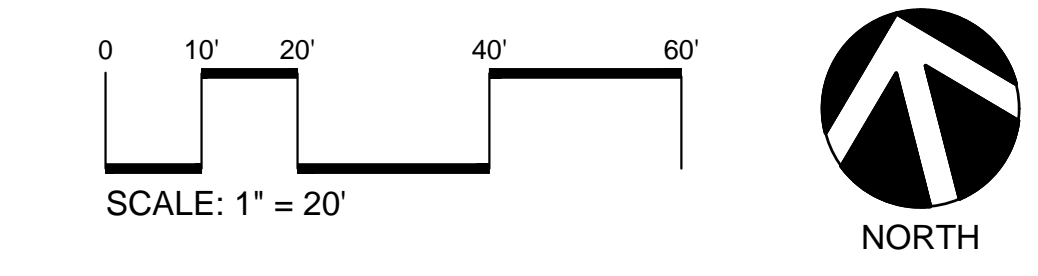
PLANTING PLAN
NORTHSIDE DR. MEDIAN

LS-6.01

SHEET 10 OF 27



NOTE:
1. SEE SHEET LS-7.01 FOR CONSTRUCTION LEGEND



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TWO WORKING DAYS
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REVISIONS		

PROJECT LANDSCAPE ARCHITECT DATE

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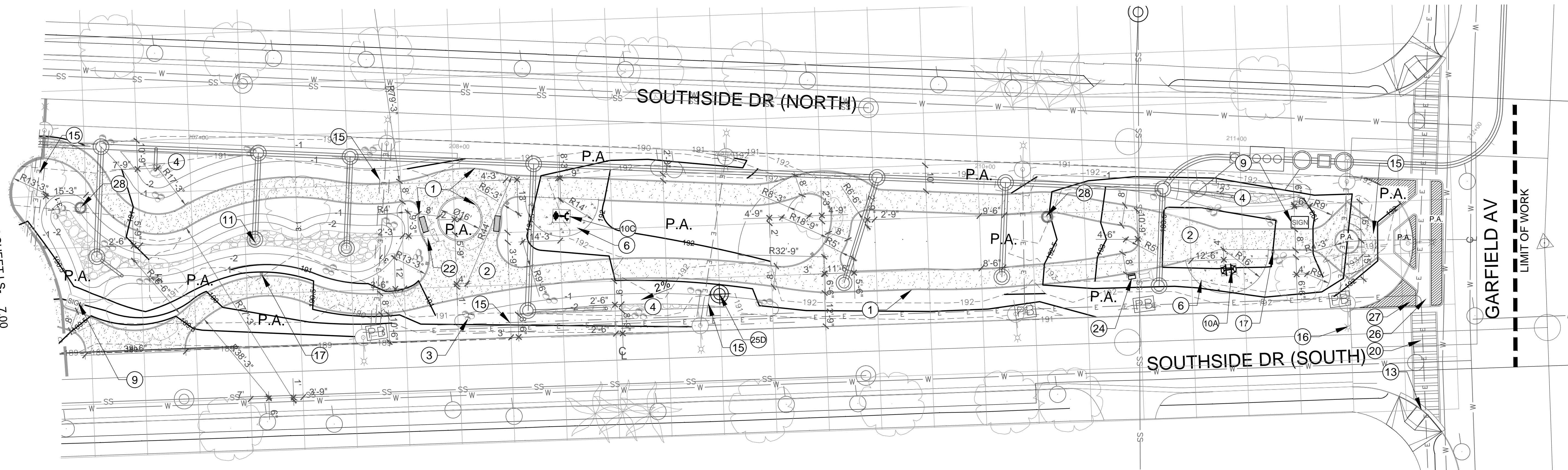
EAST LOS ANGELES
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CONSTRUCTION PLAN
SOUTHSIDE DR. MEDIAN

LACFCD INDEX NO. 116-D27 PCA SHEET 11 OF 27

LS-7.00

MATCHLINE -
SEE SHEET LS- 7.00

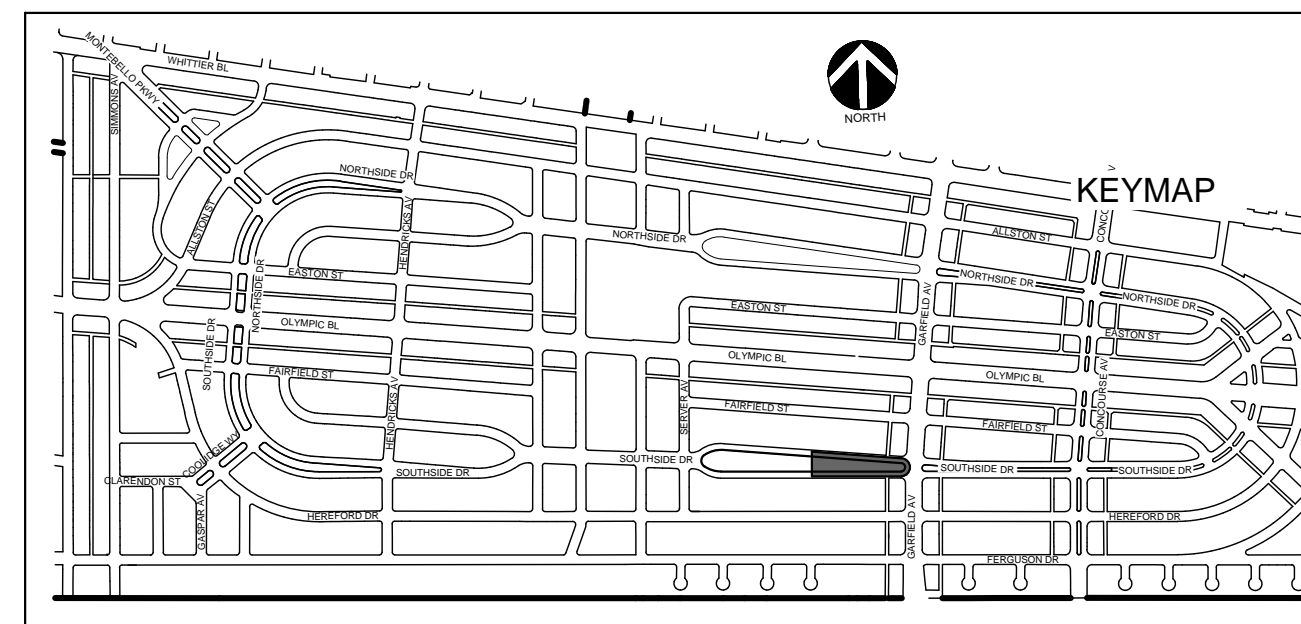
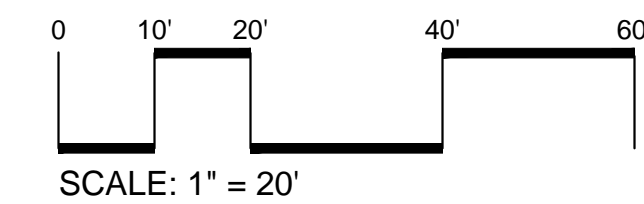


CONSTRUCTION MATERIALS LEGEND

SYMBOL	NUMBER	DESCRIPTION	TYPE	SIZE	COLOR	MANUFACTURER / MODEL	DETAIL
	1	CONCRETE HEADER	4" WIDE HEADER	---	NATURAL GRAY	---	DET B / LS-10.00
	2	DECOMPOSED GRANITE	DECOMPOSED GRANITE WITH STABILIZER, REFER TO CONSTRUCTION NOTES	---	YELLOW/GOLD	REFER TO SPECIAL PROVISIONS	DET B / LS-10.00
	3	DECORATIVE BOULDERS	ROUND GRANITE BOULDERS, REFER TO SPECIAL PROVISIONS	18" - 3'	NATURAL GRAY	REFER TO SPECIAL PROVISIONS	DET G / LS-10.00
	4	RIVER ROCK COBBLE	REFER TO SPECIAL PROVISIONS	6" - 8"	NATURAL GRAY	REFER TO SPECIAL PROVISIONS	DET C / LS-10.00
	5	CONCRETE PARK BENCH (W/CONC. FOOTING)	CONCRETE BENCH W/ANTI-SKATE BUMPS, REFER TO CONSTRUCTION NOTES	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	DET C / LS-10.01
	6	CONCRETE WALKWAY	---	4" THICK	NATURAL GRAY MEDIUM BROOM FINISH	---	DET A / LS-10.00
	7	CONCRETE PICNIC TABLE	ROUND CONCRETE PICNIC TABLE WITH BUILT IN SEATING	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	---
	7A	CONCRETE PICNIC TABLE ADA ACCESSIBLE	ROUND CONCRETE PICNIC TABLE WITH BUILT IN SEATING W/ ADA ACCESS	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	---
	8	CONCRETE TRASH RECEPTACLE	ROUND TOP RECEPTACLE, SIDE OPENING	---	TAN / BROWN	REFER TO SPECIAL PROVISIONS	DET H / LS-10.00
	9	INTERPRETIVE SIGN	FULL COLOR INTERPRETIVE SIGN MOUNTED TO METAL FRAME	W:2' X L:3' X H:3'-10"	GREEN	REFER TO SPECIAL PROVISIONS	DET D / LS-10.00
	10A	PARACOURSE EXERCISE EQUIP. STATION A	4-PERSON PENDULUM, ABS AND DIPS	---	---	REFER TO SPECIAL PROVISIONS	DET B,C / LS-10.02
	10B	PARACOURSE EXERCISE EQUIP. STATION B	2-PERSON UPPER BODY COMBO	---	---		
	10C	PARACOURSE EXERCISE EQUIP. STATION C	2-PERSON ACCESSIBLE CHEST PRESS	---	---		
	10D	PARACOURSE EXERCISE EQUIP. STATION D	4-PERSON LEG PRESS	---	---		
	11	DRY WELL PER PLAN DR.	---	---	---	---	---
	12	CONCRETE HIGH CURB	6" WIDE	---	NATURAL GRAY	---	---
	13	CURB RAMP, PER PLAN DR	---	---	---	---	---
	14	CURB CUT - TYP.	---	---	---	---	DET B / LS-10.01
	15	STREET LIGHTING APPURTENANCES, REFER TO CONSTRUCTION NOTES LS-10.01	---	---	---	---	---

CONSTRUCTION MATERIALS LEGEND CONT.

SYMBOL	NUMBER	DESCRIPTION	TYPE	SIZE	COLOR	MANUFACTURER / MODEL	DETAIL
	16	EXISTING LIGHT TO REMAIN	---	---	---	---	---
	17	PEDESTRIAN BOLLARD LIGHTING	SOLAR POWERED LED LIGHT WITH LIGHTING PROFILE 02	35" HT.	BLACK	PLB102 TYPE 5 BY FIRSTLIGHT TECHNOLOGY TEL. 844-279-8754	DET A / LS-10.02
	18	4" PVC DRAIN PIPE	---	---	---	---	---
	19	PLANTING EDGE GUIDE	---	---	---	---	---
	20	CROSSWALK PER PLAN SP	---	---	---	---	---
	21	30" X 48" CLEAR FLOOR PER 11B-305 FOR: 11B-902 DINING SURFACE	---	---	---	---	---
	22	60" X 60" ADA CLEAR FLOOR SPACE & 4" THICK CONCRETE PAD	---	---	---	---	---
	23	60" X 60" ADA CLEAR FLOOR SPACE	---	---	---	---	---
	24	PET WASTE STATION	---	---	---	REFER TO SPECIAL PROVISIONS	DET D / LS-10.01
	25X	SOIL TEST ("A" - "F"); (6) LOCATION SITES FOR AGRONOMIC SOIL REPORT ISLAND PASSAGEWAY, REFER TO PLAN DR FOR REMOVALS AND CONSTRUCTION	REFER TO SPECIAL PROVISIONS	---	---	---	DET A / LS-10.01
	26	24" DEEP IMPORT TOPSOIL AT ISLAND PASSAGEWAY	REFER TO CONSTRUCTION NOTES	---	---	---	---
	28	EXISTING MONITORING WELLS	REFER TO CONSTRUCTION NOTES	---	---	---	---

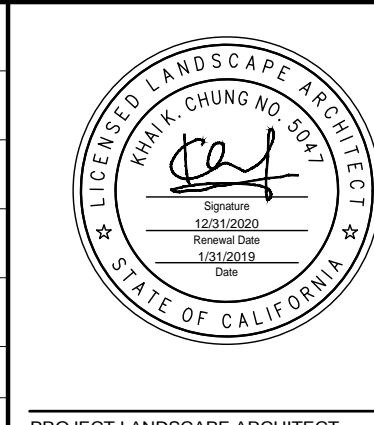


CALL 8-1-1 TOLL FREE



TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		



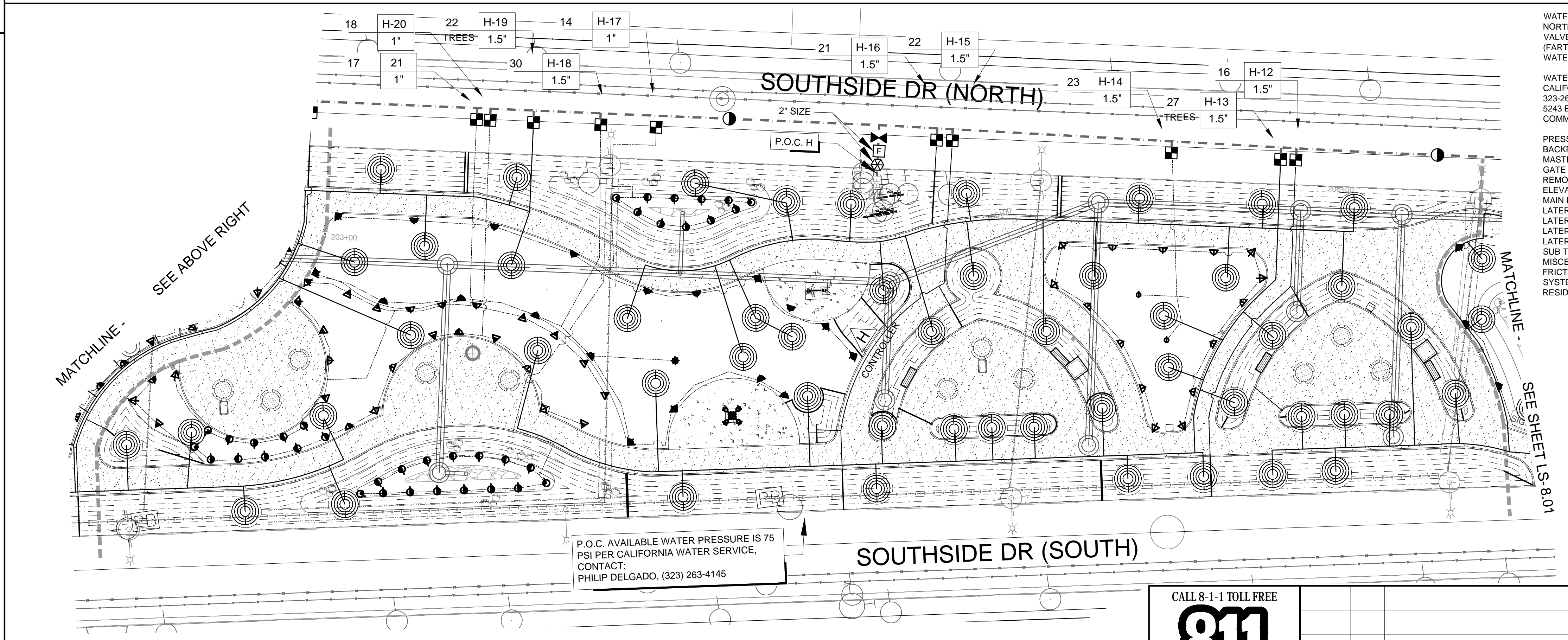
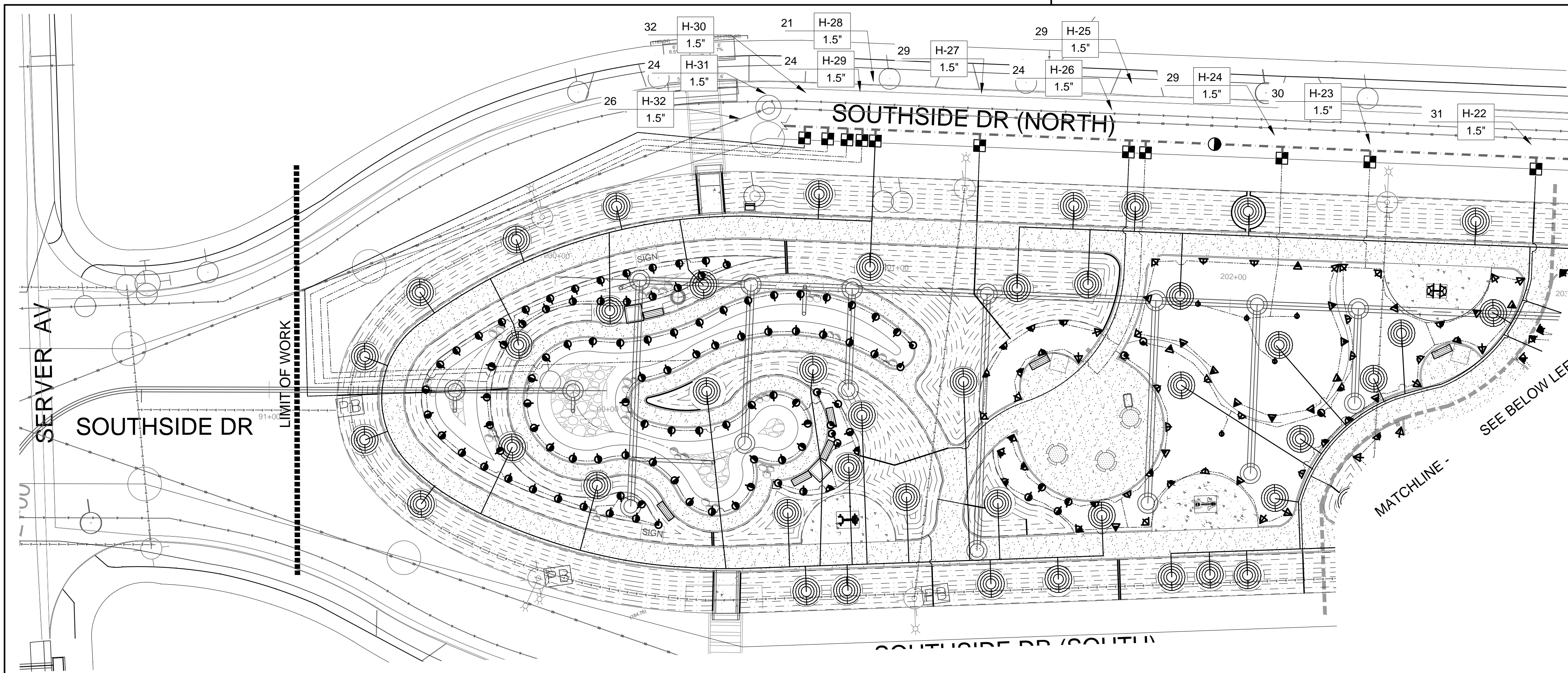
LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

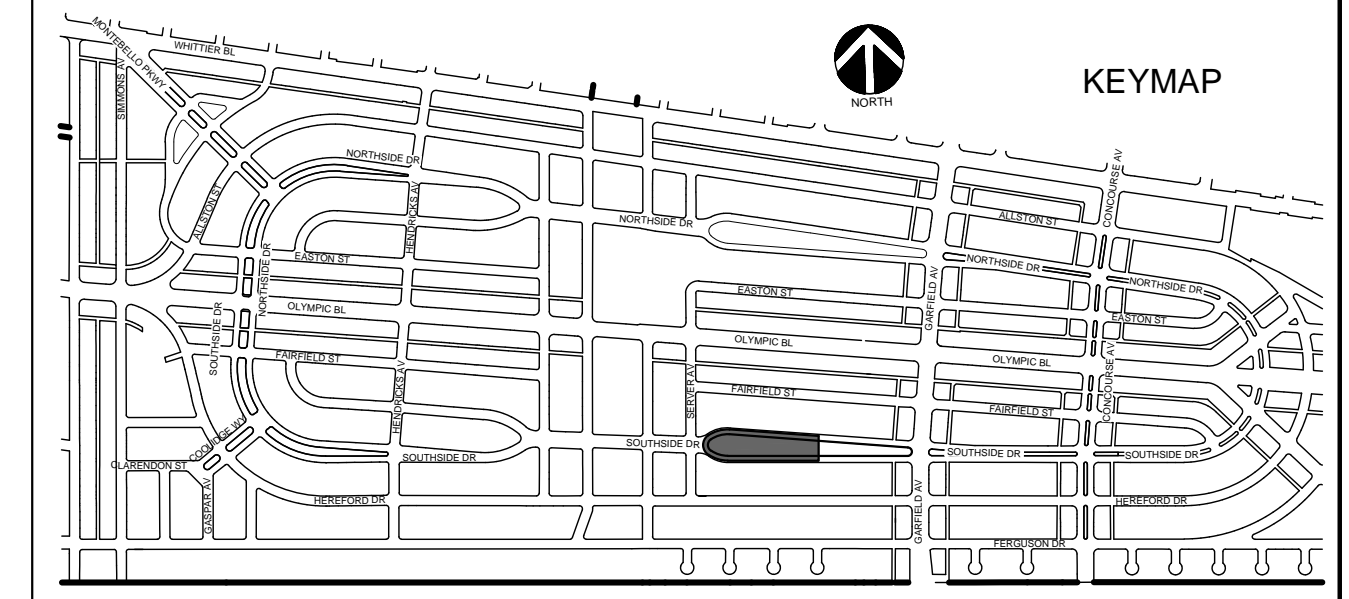
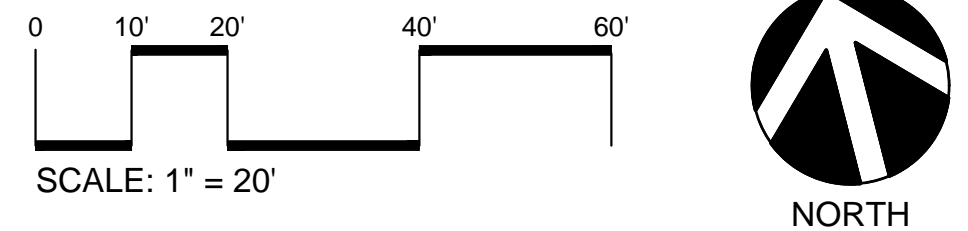
CONSTRUCTION PLAN
SOUTHSIDE DR. MEDIAN

LS-7.01

LACFCD INDEX NO. 116-D27 PCA SHEET 12 OF 27



- WATER METER POC 'H' -
NORTHSIDE DR / GARFIELD AVE
VALVE NUMBER: 11 (19 GPM)
(FARTHEST RCV USING 2" MAIN)
WATER PRESSURE: 75 PSI
- WATER PURVEYOR:
CALIFORNIA WATER SERVICE
323-263-4145
5243 E. SHEILA ST
COMMERCE, CA 90040
- | | |
|-------------------------------|-------|
| PRESSURE LOSS METER 6" | 1.00 |
| BACKFLOW PREVENTER 6" | 12.00 |
| MASTER GATE VALVE 1 1/2" | 1.50 |
| GATE VALVE (5 LOSS PER VALVE) | 1.50 |
| REMOTE CONTROL VALVE (1.5") | 3.60 |
| ELEVATION DIFFERENTIAL -5' | -2.17 |
| MAIN LINE 2" | 3.79 |
| LATERAL LINES 1 1/2" | 4.14 |
| LATERAL LINES 1 1/4" | 2.27 |
| LATERAL LINES 1" | 0.00 |
| LATERAL LINES 3/4" | 0.00 |
| SUB TOTAL | 27.64 |
| MISCELLANEOUS (10%): | 2.76 |
| FRICITION LOSS TOTAL: | 30.40 |
| SYSTEM DESIGN PRESSURE: | 40.00 |
| RESIDUAL PRESSURE: | 4.60 |



P.O.C. AVAILABLE WATER PRESSURE IS 75
PSI PER CALIFORNIA WATER SERVICE.
CONTACT:
PHILIP DELGADO, (323) 263-4145

NOTE:
1. SEE SHEET LS-11.00 FOR COMPLETE LISTING OF IRRIGATION LEGENDS

CALL 8-1-1 TOLL FREE

TWO WORKING DAYS
BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		



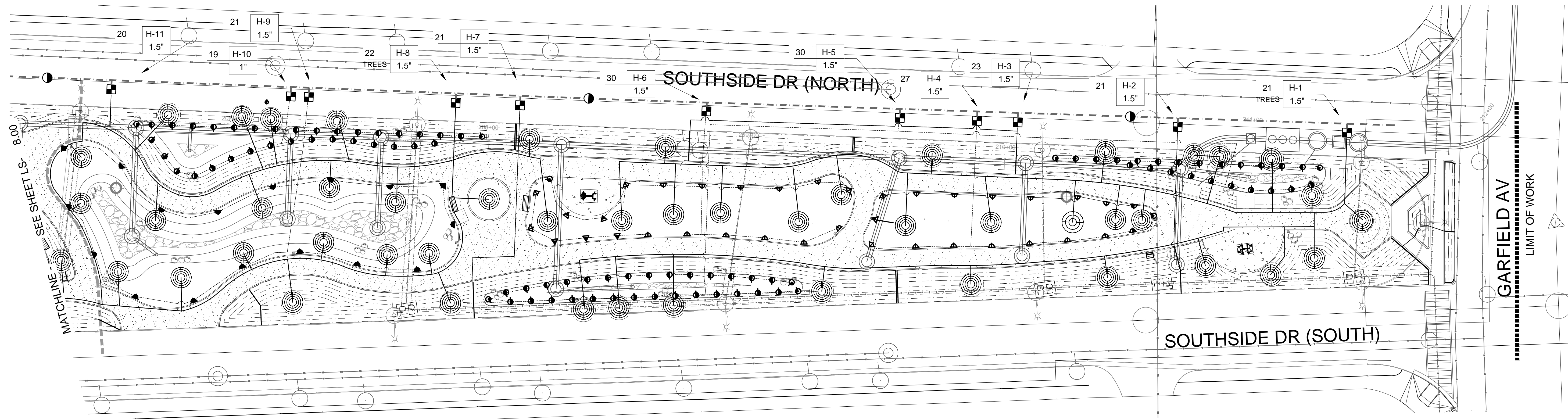
LOS ANGELES COUNTY PUBLIC WORKS

**EAST LOS ANGELES
SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT**
PROJECT ID NO. WMU0000010

IRRIGATION PLAN
SOUTHSIDE DR. MEDIAN

LS-8.00

LACFCD INDEX NO. 116-D27 PCA SHEET 13 OF 27



(A)	AIR RELIEF VALVE	RAINBIRD	1/2" AIR RELIEF VALVE	0.5"	C/LS-11.02
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IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL/TYPE	SIZE	DETAIL
□	REMOTE CONTROL VALVE	RAINBIRD	PEB-PRS-D	PER PLAN	H/LS-11.01
□*	REMOTE CONTROL VALVE - DRIP	RAINBIRD	XCZ-100-PRB-COM FLOW 4 - 15 GPM	1"	
□*	REMOTE CONTROL VALVE - DRIP	RAINBIRD	XCZ-150-PRB-COM FLOW 15 - 40 GPM	1.5"	
○	QUICK COUPLER	RAINBIRD	33 DLRC	0.75"	B/LS-11.01
(E)	EXISTING ELECTRICAL METER	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	
(WM)	EXISTING WATER METER	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	
▭	EXISTING REDUCED PRESSURE BACKFLOW ASSEMBLY / ENCLOSURE	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	
(P) (F) (F)	EXISTING IRRIGATION EQUIPMENT: PRESSURE REGULATOR, MASTER VALVE, FLOW SENSOR	REFER TO SPECIAL PROVISIONS		SEE PLAN	
(F)	MASTER VALVE (NORMALLY CLOSED)	REFER TO SPECIAL PROVISIONS		SEE PLAN	A/LS-11.02
(F)	FLOW SENSOR	CALSENSE	FM-2B	2"	
(R)	RAIN SENSOR (ONE (1) NEW PER CONTROLLER)	CALSENSE	RB-1	SEE PLAN	G/LS-11.01
⋈	GATE VALVE	REFER TO SPECIAL PROVISIONS		LINE SIZE	A/LS-11.01
—	PVC SUPPLY / FLUSH HEADERS	REFER TO SPECIAL PROVISIONS		SEE PLAN	A/LS-11.02
—	PVC LATERAL LINE SERVING DRIPLINE	REFER TO SPECIAL PROVISIONS		SEE PLAN	E/LS-11.01
—	PVC LATERAL LINE SERVING POP-UP NOZZLES	REFER TO SPECIAL PROVISIONS		SEE PLAN	
—	PVC LATERAL LINE - TREES	REFER TO SPECIAL PROVISIONS		SEE PLAN	
- - - -	MAIN LINE - EXISTING	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	

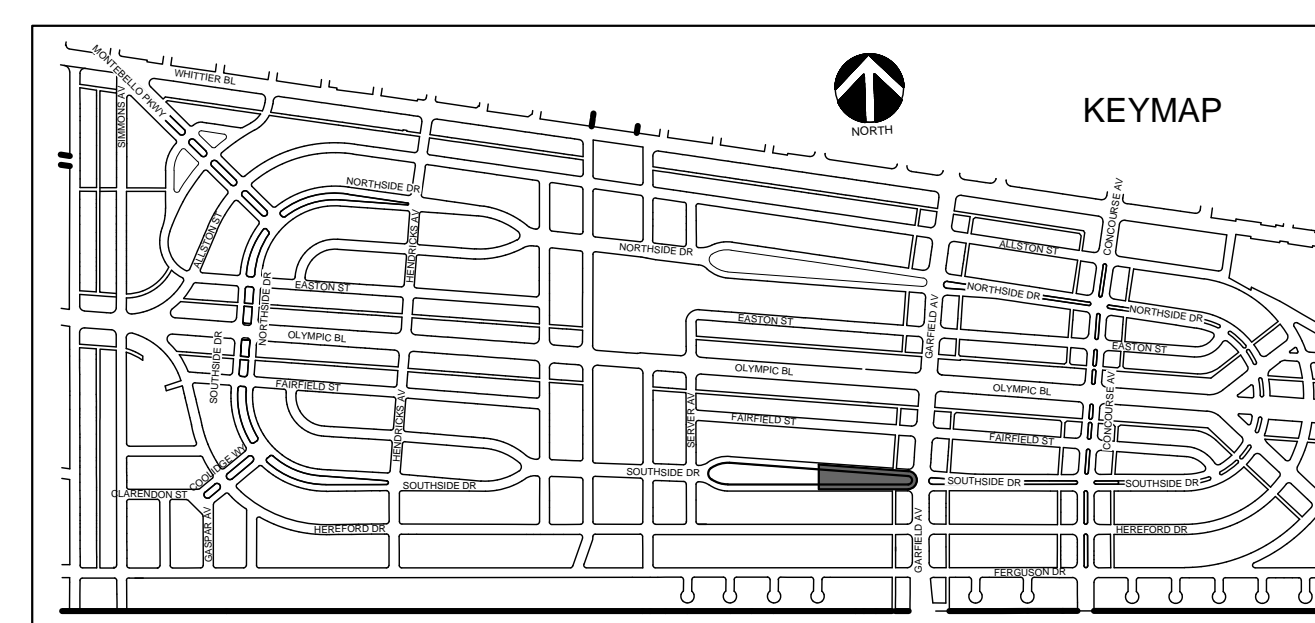
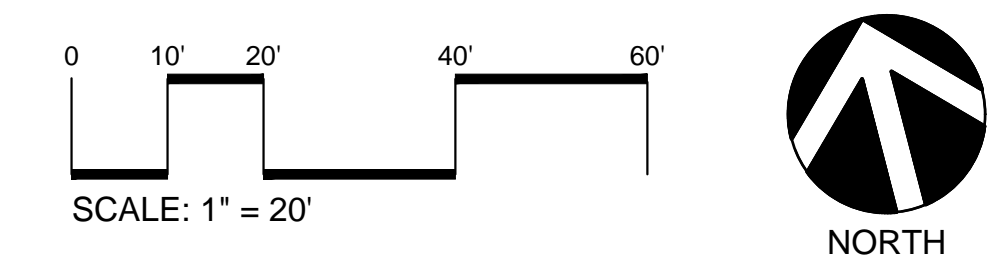
IRRIGATION CONTROLLER LEGEND

SYMBOL	DESCRIPTION	ZONE	MANUFACTURER	MODEL/TYPE	SIZE	DETAIL
(B)	NEW CONTROLLER WITHIN EXISTING STEEL ENCLOSURE TO REMAIN. CONTROLLER LOCATED AT: MONTEBELLO PKWY FROM WHITTIER BLVD TO NORTHSIDE DR	ZONE 3	CALSENSE	CS3-48-S-UPGRADE/ (6) CS3-8STA-KIT/CS3-GR/ CS3-W-KIT/RB-1/COMM-5YR	48 STATION	F/LS-11.01
(G)	NEW CONTROLLER WITHIN EXISTING STEEL ENCLOSURE TO REMAIN. CONTROLLER LOCATED AT: NORTHSIDE DR, +/- 200 FT W/O GARFIELD AV	ZONE 7	CALSENSE	EXISTING ET2000E-16-GR-RRE-SSER-SERIAL #42898 CS3-S-UPGRADE/ CS3-8STA-KIT(2)/COMM-5YR	32 STATION	
(H)	NEW CONTROLLER AND NEW STEEL ENCLOSURE. CONTROLLER LOCATED AT: SOUTHSIDE DR +/- 740 FT W/O GARFIELD AV	ZONE 8	CALSENSE	EXISTING ET1-16-DR/SERIAL #5919 CS3-S-UPGRADE/ CS3-SSE-1-ASSEM/PAD/ CS3-8STA-KIT(2)/ CS3-GR/GR-STUBBY/COMM-5YR	32 STATION	

IRRIGATION SPRINKLER LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	NOZZEL	RADIUS	GPM	PSI	PATTERN	DETAIL
⊕	12" POP-UP ROTARY SPRAY HEAD	RAINBIRD	1812-SAM-PRS	R-VAN 1724	24	2.26	30	FULL	C/LS-11.01
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	R-VAN 1724	24	1.41	30	HALF	
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	R-VAN 1724	24	0.73	30	QUARTER	
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- F	15	3.70	30	FULL	
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	15	1.85	30	HALF	
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	15	0.93	30	QUARTER	
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	12	1.18	30	HALF	
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	12	0.59	30	QUARTER	
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	10	0.89	30	HALF	
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	10	0.45	30	QUARTER	
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	8	0.59	30	FULL	
⊕	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	8	0.29	30	QUARTER	

NOTE:
1. SEE SHEET LS-11.00 FOR COMPLETE LISTING OF IRRIGATION LEGENDS

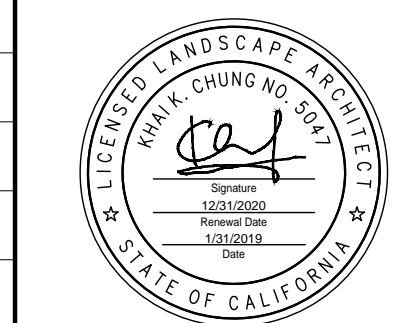


CALL 8-1-1 TOLL FREE



TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		



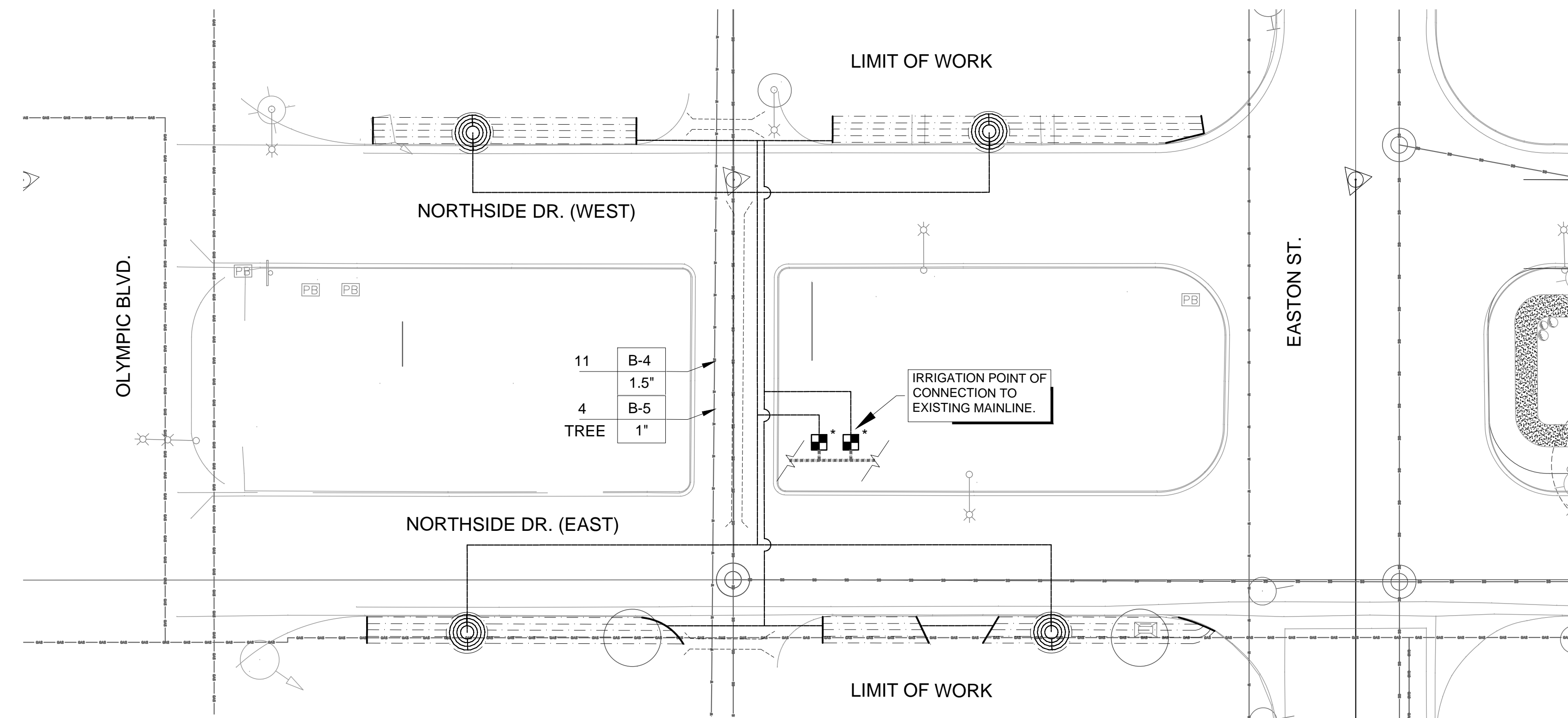
LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

IRRIGATION PLAN
SOUTHSIDE DR. MEDIAN

LS-8.01

PROJECT LANDSCAPE ARCHITECT DATE LACFCID INDEX NO. 116-D27 PCA SHEET 14 OF 27



(A)	AIR RELIEF VALVE	RAINBIRD	1/2" AIR RELIEF VALVE	0.5"	C/LS-11.02
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IRRIGATION EQUIPMENT LEGEND

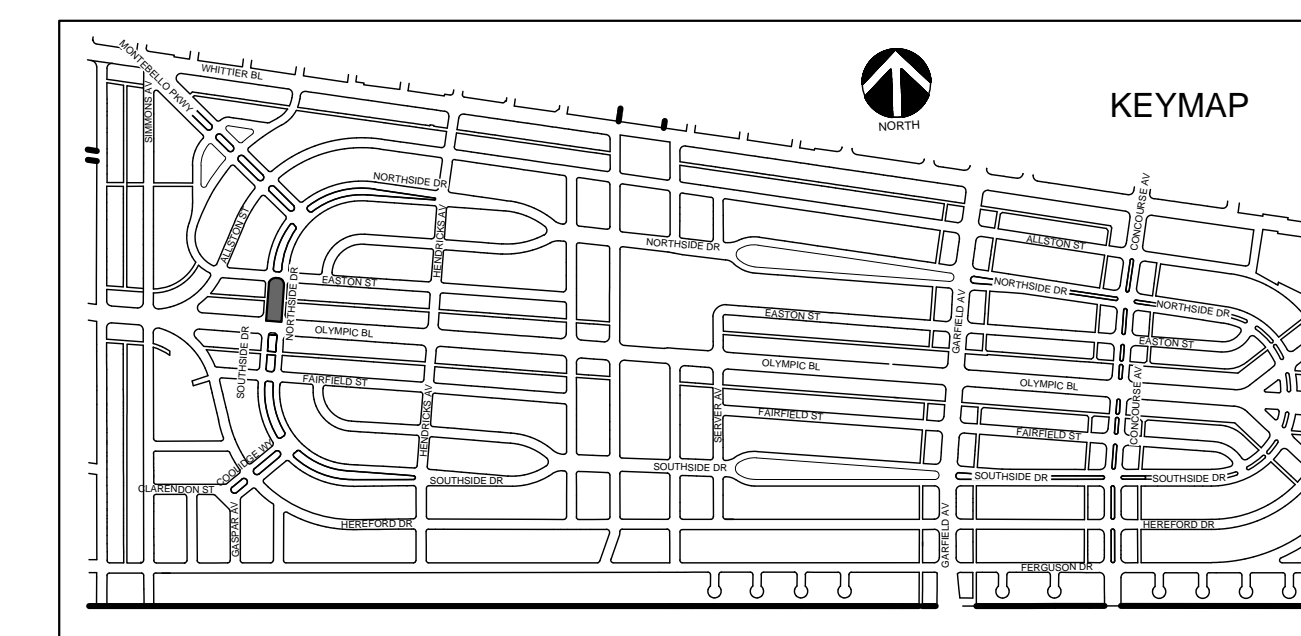
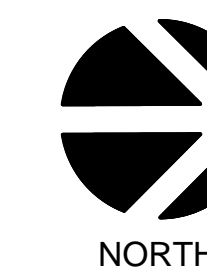
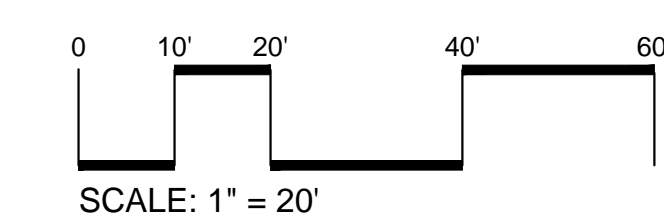
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL/TYPE	SIZE	DETAIL
	REMOTE CONTROL VALVE	RAINBIRD	PEB-PRS-D	PER PLAN	H/LS-11.01
	REMOTE CONTROL VALVE - DRIP	RAINBIRD	XCZ-100-PRB-COM FLOW 4 - 15 GPM	1"	H/LS-11.01
	REMOTE CONTROL VALVE - DRIP	RAINBIRD	XCZ-150-PRB-COM FLOW 15 - 40 GPM	1.5"	
	QUICK COUPLER	RAINBIRD	33 DLRC	0.75"	B/LS-11.01
(E)	EXISTING ELECTRICAL METER	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	
(WM)	EXISTING WATER METER	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	
	EXISTING REDUCED PRESSURE BACKFLOW ASSEMBLY / ENCLOSURE	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	
(P) (F)	EXISTING IRRIGATION EQUIPMENT: PRESSURE REGULATOR, MASTER VALVE, FLOW SENSOR	REFER TO SPECIAL PROVISIONS		SEE PLAN	
	MASTER VALVE (NORMALLY CLOSED)	REFER TO SPECIAL PROVISIONS		SEE PLAN	A/LS-11.02
(F)	FLOW SENSOR	CALSENSE	FM-2B	2"	
(R)	RAIN SENSOR (ONE (1) NEW PER CONTROLLER)	CALSENSE	RB-1	SEE PLAN	G/LS-11.01
	GATE VALVE	REFER TO SPECIAL PROVISIONS		LINE SIZE	A/LS--11.01
	PVC SUPPLY / FLUSH HEADERS	REFER TO SPECIAL PROVISIONS		SEE PLAN	A/LS--11.02
AND	PVC LATERAL LINE SERVING DRIPLINE	REFER TO SPECIAL PROVISIONS		SEE PLAN	E/LS-11.01
	PVC LATERAL LINE SERVING POP-UP NOZZLES	REFER TO SPECIAL PROVISIONS		SEE PLAN	
	PVC LATERAL LINE - TREES	REFER TO SPECIAL PROVISIONS		SEE PLAN	
	MAIN LINE - EXISTING	REFER TO IRRIGATION INSTALLATION NOTES		SEE PLAN	

IRRIGATION CONTROLLER LEGEND

SYMBOL	DESCRIPTION	ZONE	MANUFACTURER	MODEL/TYPE	SIZE	DETAIL
(B)	NEW CONTROLLER WITHIN EXISTING STEEL ENCLOSURE TO REMAIN. CONTROLLER LOCATED AT: MONTEBELLO PKWY FROM WHITTIER BLVD TO NORTHSIDE DR	ZONE 3	CALSENSE	CS3-48-S-UPGRADE/ (6) CS3-8STA-KIT/CS3-GR/ CS3-W-KIT/RB-1/COMM-5YR	48 STATION	F/LS-11.01
(G)	NEW CONTROLLER WITHIN EXISTING STEEL ENCLOSURE TO REMAIN. CONTROLLER LOCATED AT: NORTHSIDE DR, +/- 200 FT W/O GARFIELD AV	ZONE 7	CALSENSE	EXISTING ET2000E-16-GR-RRE-SSER-SERIAL #42898 CS3-S-UPGRADE/ CS3-8STA-KIT(2)/COMM-5YR	32 STATION	
(H)	NEW CONTROLLER AND NEW STEEL ENCLOSURE. CONTROLLER LOCATED AT: SOUTHSIDE DR +/- 740 FT W/O GARFIELD AV	ZONE 8	CALSENSE	EXISTING ET1-16-DR/SERIAL #5919 CS3-S-UPGRADE/ CS3-SSE-1-ASSEM/PAD/ CS3-8STA-KIT(2)/ CS3-GR/GR-STUBBY/COMM-5YR	32 STATION	

IRRIGATION SPRINKLER LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	NOZZEL	RADIUS	GPM	PSI	PATTERN	DETAIL
	12" POP-UP ROTARY SPRAY HEAD	RAINBIRD	1812-SAM-PRS	R-VAN 1724	24	2.26	30	FULL	C/LS-11.01
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	R-VAN 1724	24	1.41	30	HALF	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	R-VAN 1724	24	0.73	30	QUARTER	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- F	15	3.70	30	FULL	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	15	1.85	30	HALF	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	15	0.93	30	QUARTER	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	12	1.18	30	HALF	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	12	0.59	30	QUARTER	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	10	0.89	30	HALF	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	10	0.45	30	QUARTER	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- H	8	0.59	30	FULL	
	12" POP-UP ROTARY SPRAY HEAD		1812-SAM-PRS	HE-VAN- Q	8	0.29	30	QUARTER	



NOTE:
1. SEE SHEET LS-11.00 FOR COMPLETE LISTING OF IRRIGATION LEGENDS

CALL 8-1-1 TOLL FREE



TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		



PROJECT LANDSCAPE ARCHITECT DATE

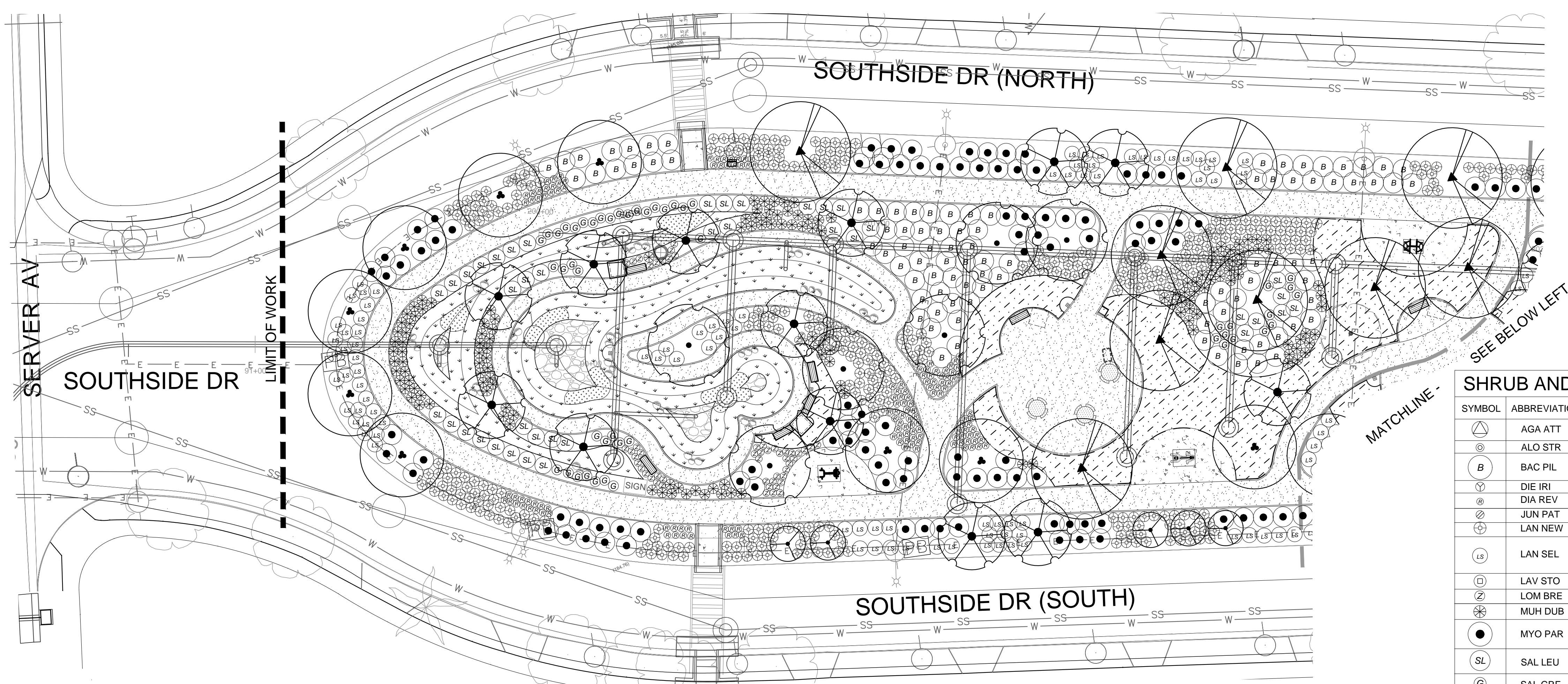
LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

IRRIGATION PLAN
NORTHSIDE DR. AT EASTON ST.

LS-8.02

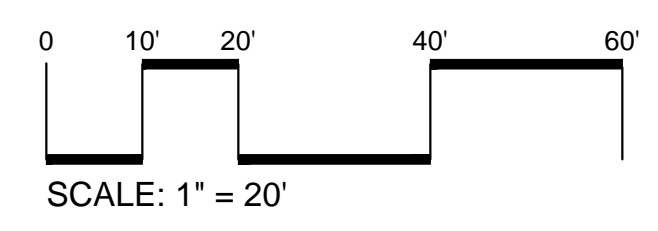
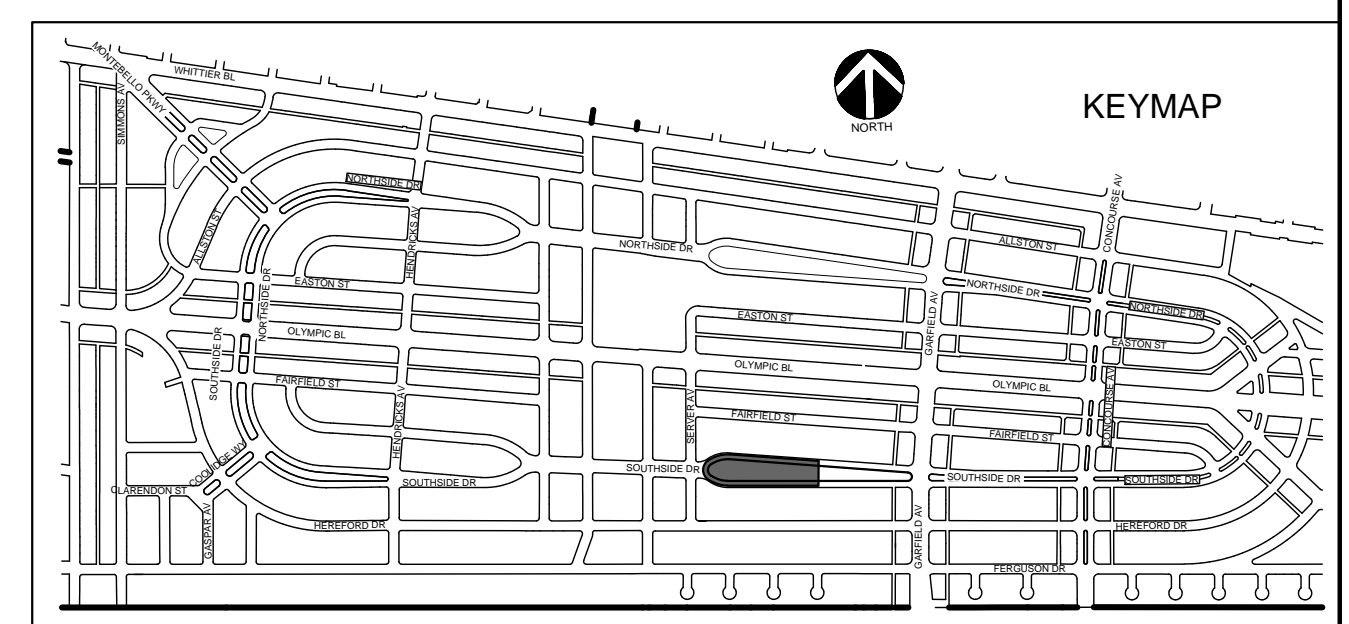
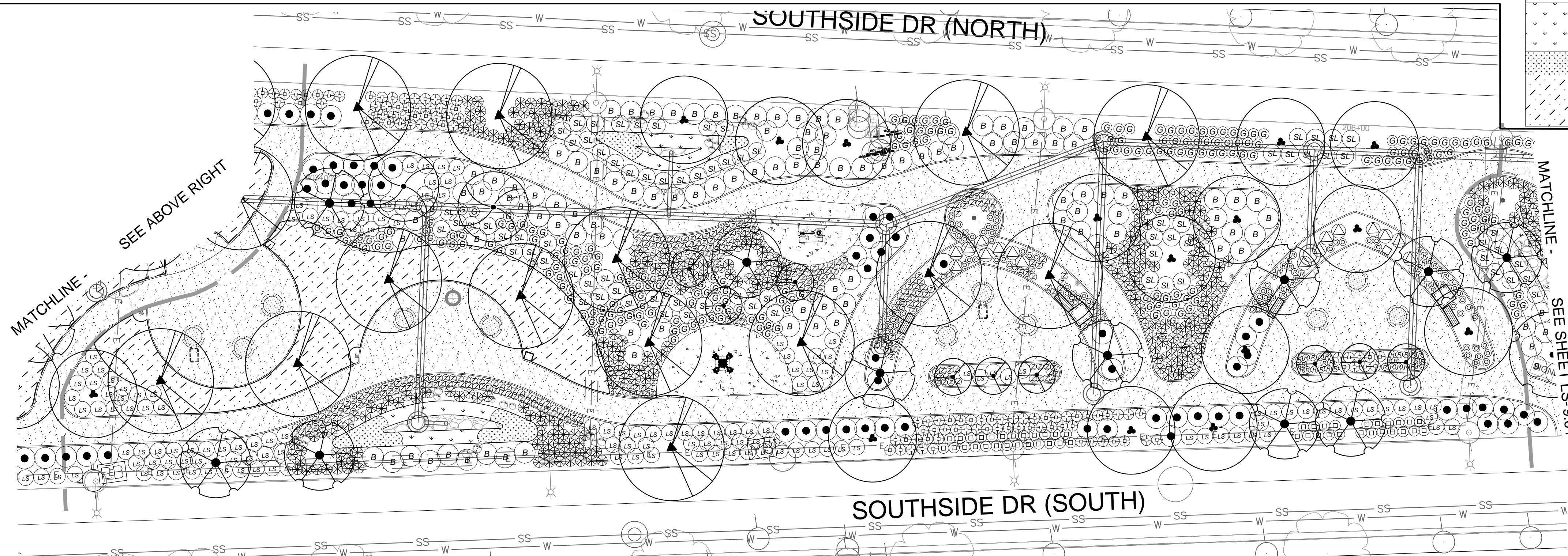
LACFCD INDEX NO. 116-D27 PCA SHEET 15 OF 27



TREE LEGEND						
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	WUCOLS
	CER OCC	CERCIS OCCIDENTALIS	WESTERN REDBUD	15 GAL	48	L
	CHI TAS	CHITALPA TASHKENTENSIS	CHITALPA	15 GAL	16	L
	JAC MIM	JACARANDA MIMOSIFOLIA	JACARANDA	15 GAL	58	L
	LOP CON	LOPHOSTEMON CONFERTUS	BRISBANE BOX	15 GAL	84	M
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	15 GAL	39	M
	ULM PAR	ULMUS PARVIFOLIA	CHINESE ELM	15 GAL	55	L
			EXISTING TREE - PROTECT IN PLACE			

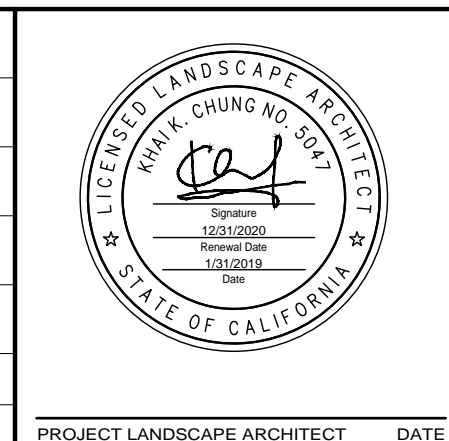
SHRUB AND GROUNDCOVER LEGEND								
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SETBACK*	O.C.	WUCOLS
	AGA ATT	AGAVE ATTENUATA	FOXTAIL AGAVE	5 GAL	94	3 FT.	6 FT.	VL
	ALO STR	ALOE STRIATA	CORAL ALOE	5 GAL	395	18"	3 FT.	VL
	BAC PIL	BACCHARIS PILULARIS	DWARF COYOTE BRUSH	1 GAL	772	3 FT.	6 FT.	L
	DIE IRI	DIETES IRIDIODES	AFRICAN IRIS	5 GAL	41	24"	4 FT	M
	DIA REV	DIANELLA REVOLUTA	FLAX LILY	5 GAL	568	15"	2 FT	L
	JUN PAT	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	224	12"	2 FT	L
	LAN NEW	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	5 GAL	1261	18"	3 FT.	L
	LAN SEL	LANTANA SELLOWIANA	TRAILING PURPLE LANTANA AND WHITE LIGHTING 50 / 50 MIX	5 GAL	470	12"	4.5 FT.	L
	LAV STO	LAVANDULA STOECHAS	SPANISH LAVENDER	5 GAL	237	18"	3 FT.	L
	LOM BRE	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	963	15"	2 FT.	L
	MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	2013	18"	3 FT.	L
	MYO PAR	MYOPORUM PARVIFOLIUM	CREEPING MYOPORUM	5 GAL	497	3 FT.	6 FT.	L
	SAL LEU	SALVIA LEUCOPHYLLA	PURPLE SAGE	5 GAL	487	30"	5 FT.	L
	SAL GRE	SALVIA GREGGII	AUTUMN SAGE	5 GAL	1551	27"	4.5 FT.	L
	MIX A	"MIX A": BIOFILTRATION SOD*; NASSELLA PULCHRA, HORDEUM CALIFORNICUM, HORDEUM BRACHYANTHERUM, FESTUCA RUBRA	"MIX A": PURPLE NEEDLEGRASS, CALIFORNIA BARLEY, MEADOW BARLEY, MOLATE FESCUE	SOD	15,768 SF	-	-	L
	MIX B	"MIX B": IRIS DOUGLASIANA; JUNCUS PATENS		1 GAL	1860	12"	18"	L
	MIX C	"MIX C": 'NATIVE MOW FREE': FESTUCA OCCIDENTALIS, FESTUCA IDAHOENSIS, FESTUCA RUBRA	"MIX C": WESTERN MOKELUMNE FESCUE, IDAHO FESCUE, MOLATE FESCUE	SOD	20,210 SF	-	-	L

NOTE: 1. PLANT QUANTITY ON LEGEND REFLECTS OVERALL TOTAL QUANTITY FOR THE ENTIRE PROJECT.
 2. SETBACK IS FROM ADJACENT HARDSCAPE.

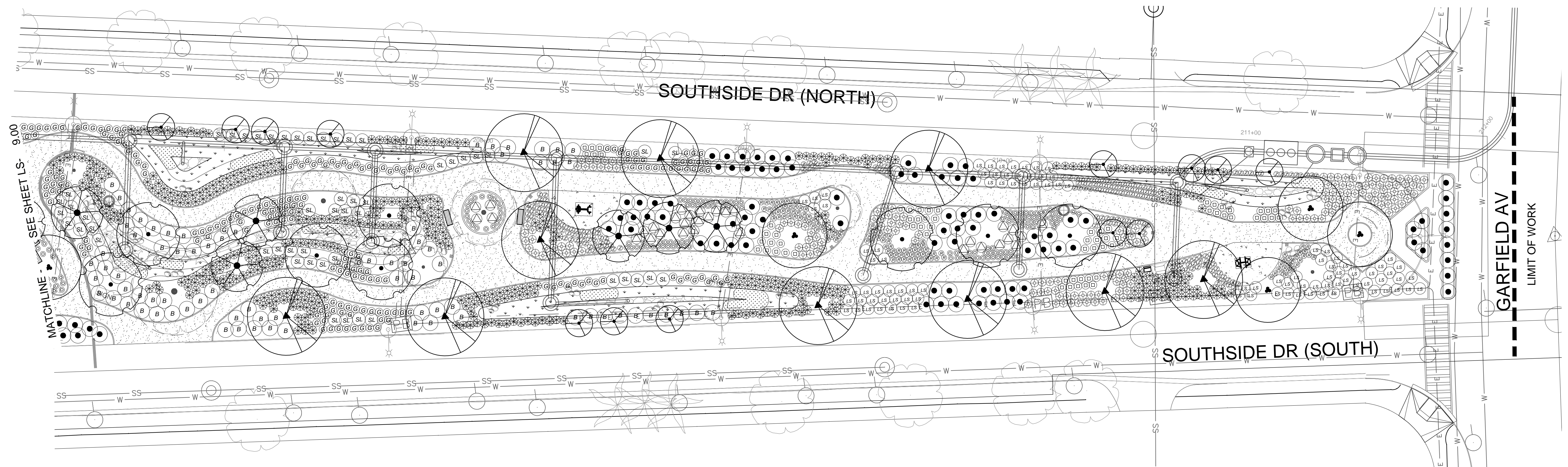


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811
 TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 PROJECT ID NO. WMU0000010
 PLANTING PLAN
 SOUTHSIDE DR. MEDIAN
 LS-9.00
 LACFCD INDEX NO. 116-D27 PCA SHEET 16 OF 27



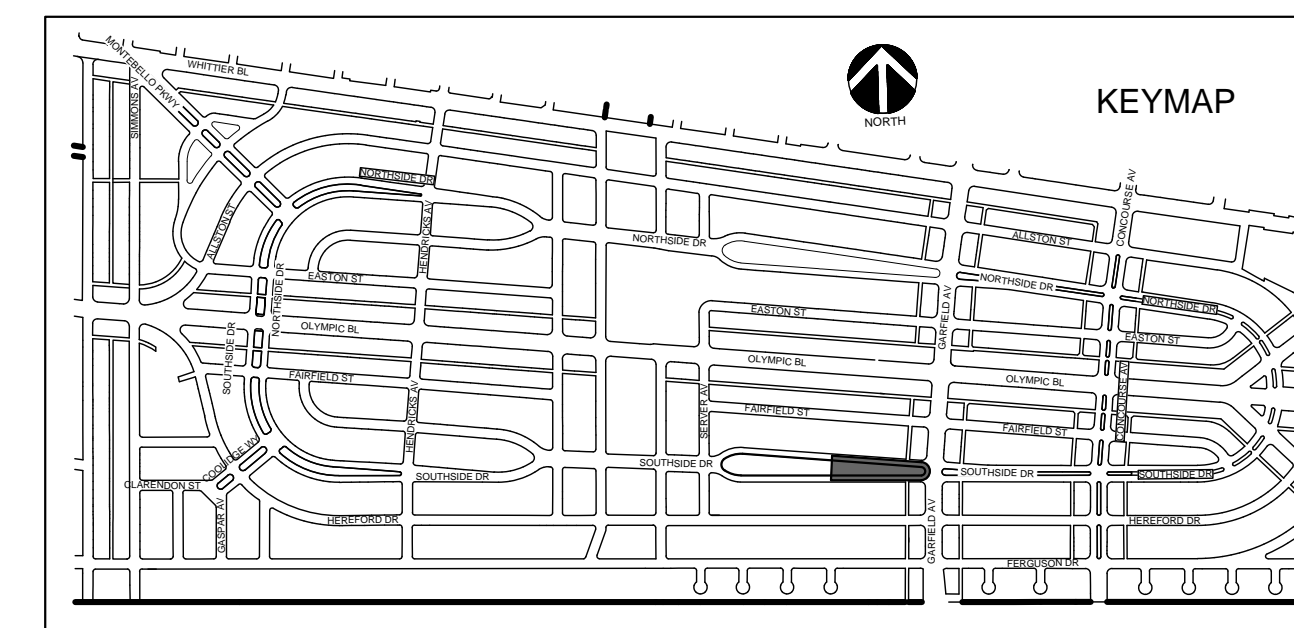
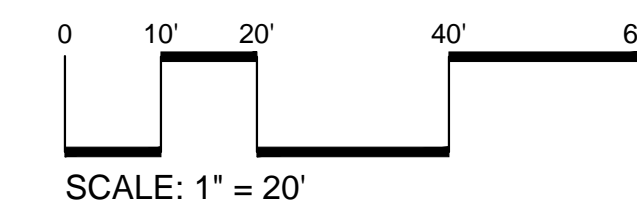
TREE LEGEND

SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	WUCOLS
	CER OCC	CERCIS OCCIDENTALIS	WESTERN REDBUD	15 GAL	48	L
	CHI TAS	CHITALPA TASHKENTENSIS	CHITALPA	15 GAL	16	L
	JAC MIM	JACARANDA MIMOSIFOLIA	JACARANDA	15 GAL	58	L
	LOP CON	LOPHOSTEMON CONFERTUS	BRISBANE BOX	15 GAL	84	M
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	15 GAL	39	M
	ULM PAR	ULMUS PARVIFOLIA	CHINESE ELM	15 GAL	55	L
		EXISTING TREE - PROTECT IN PLACE				

SHRUB AND GROUNDCOVER LEGEND

SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SETBACK*	O.C.	WUCOLS
	AGA ATT	AGAVE ATTENUATA	FOXTAIL AGAVE	5 GAL	94	3 FT.	6 FT.	VL
	ALO STR	ALOE STRIATA	CORAL ALOE	5 GAL	395	18"	3 FT.	VL
	BAC PIL	BACCHARIS PILULARIS	DWARF COYOTE BRUSH	1 GAL	772	3 FT.	6 FT.	L
	DIE IRI	DIETES IRIDIODES	AFRICAN IRIS	5 GAL	41	24"	4 FT	M
	DIA REV	DIANELLA REVOLUTA	FLAX LILY	5 GAL	568	15"	2 FT	L
	JUN PAT	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	224	12"	2 FT	L
	LAN NEW	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	5 GAL	1261	18"	3 FT.	L
	LAN SEL	LANTANA SELLOWIANA	TRAILING PURPLE LANTANA AND WHITE LIGHTING 50 / 50 MIX	5 GAL	470	12"	4.5 FT.	L
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	MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	2013	18"	3 FT.	L
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TWO WORKING DAYS BEFORE YOU DIG

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REVISIONS		



PROJECT LANDSCAPE ARCHITECT DATE

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

PLANTING PLAN
SOUTHSIDE DR. MEDIAN

LS-9.01

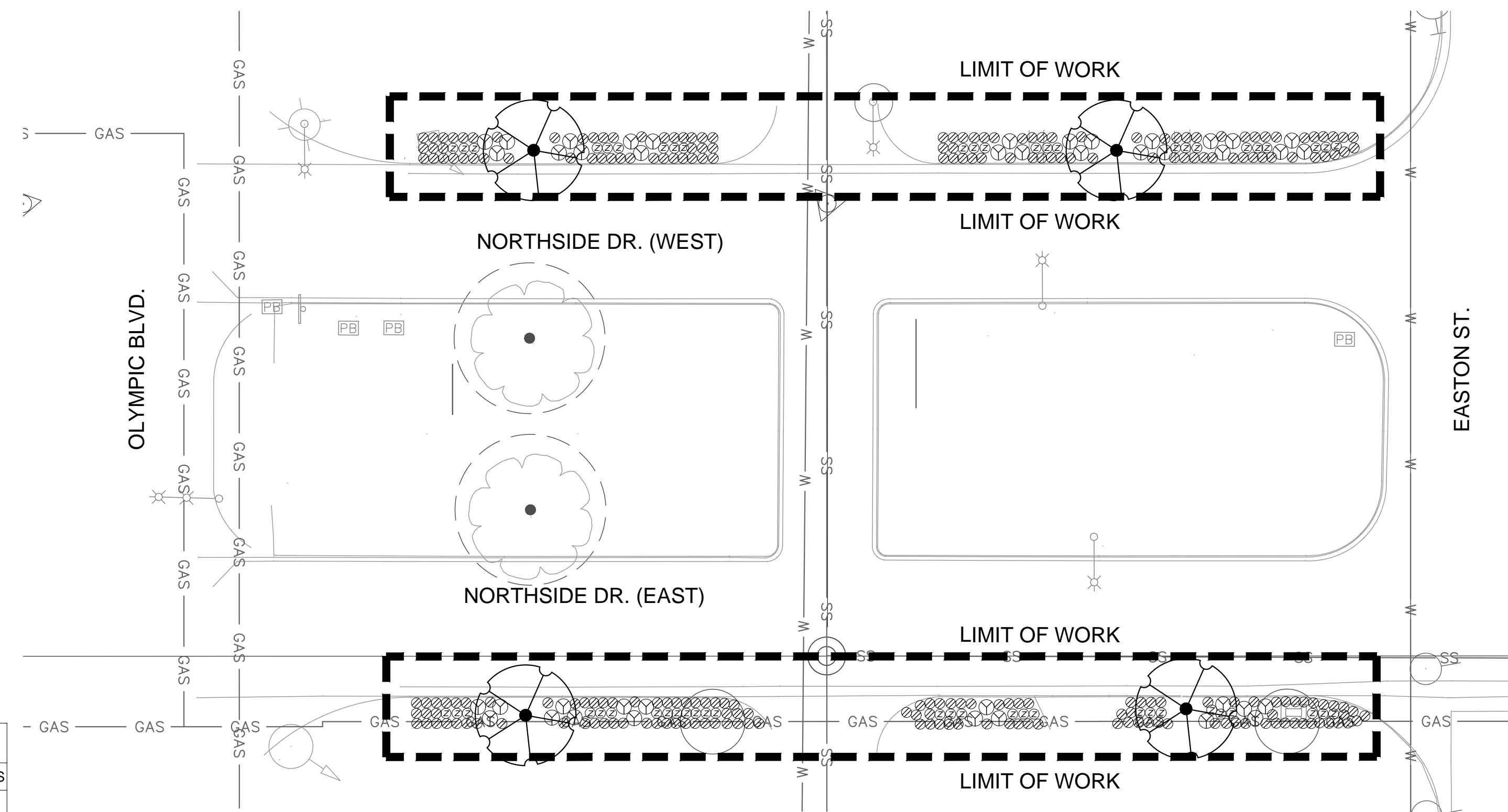
LACFCD INDEX NO. 116-D27

PCA

SHEET 17 OF 27

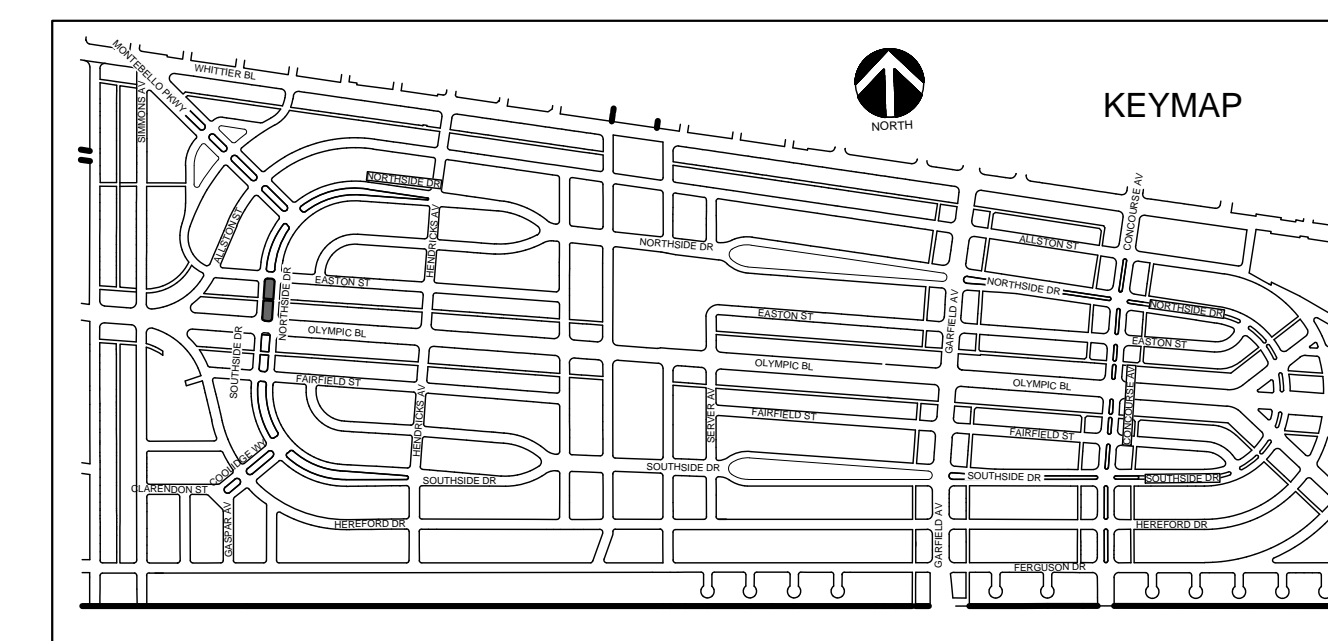
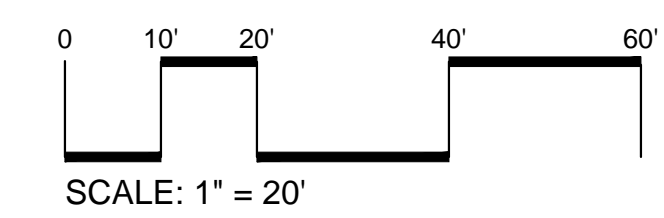
PLAN LS

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SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SETBACK*	O.C.	WUCOLS
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DATE	MK	DESCRIPTION



PROJECT LANDSCAPE ARCHITECT DATE

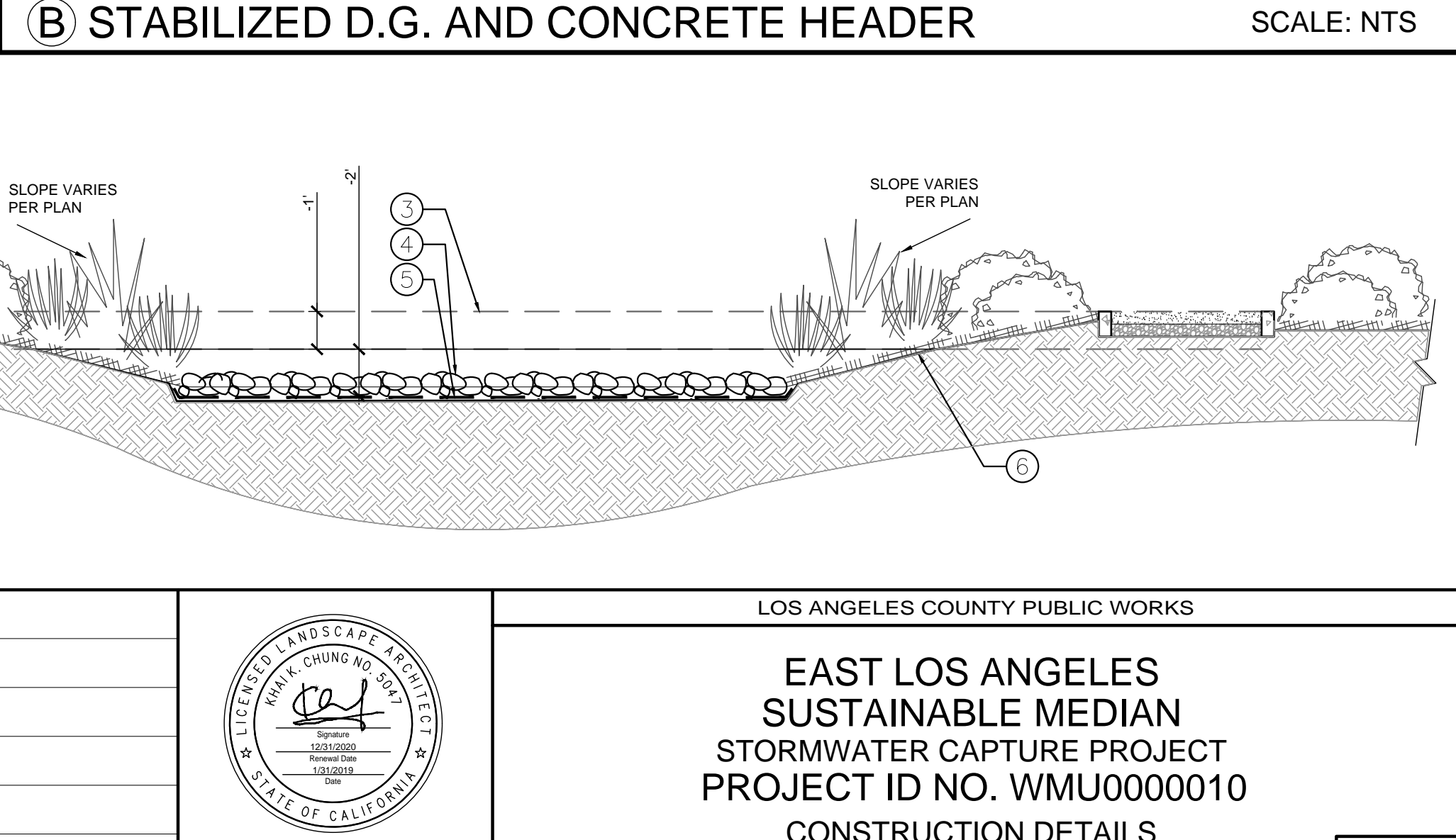
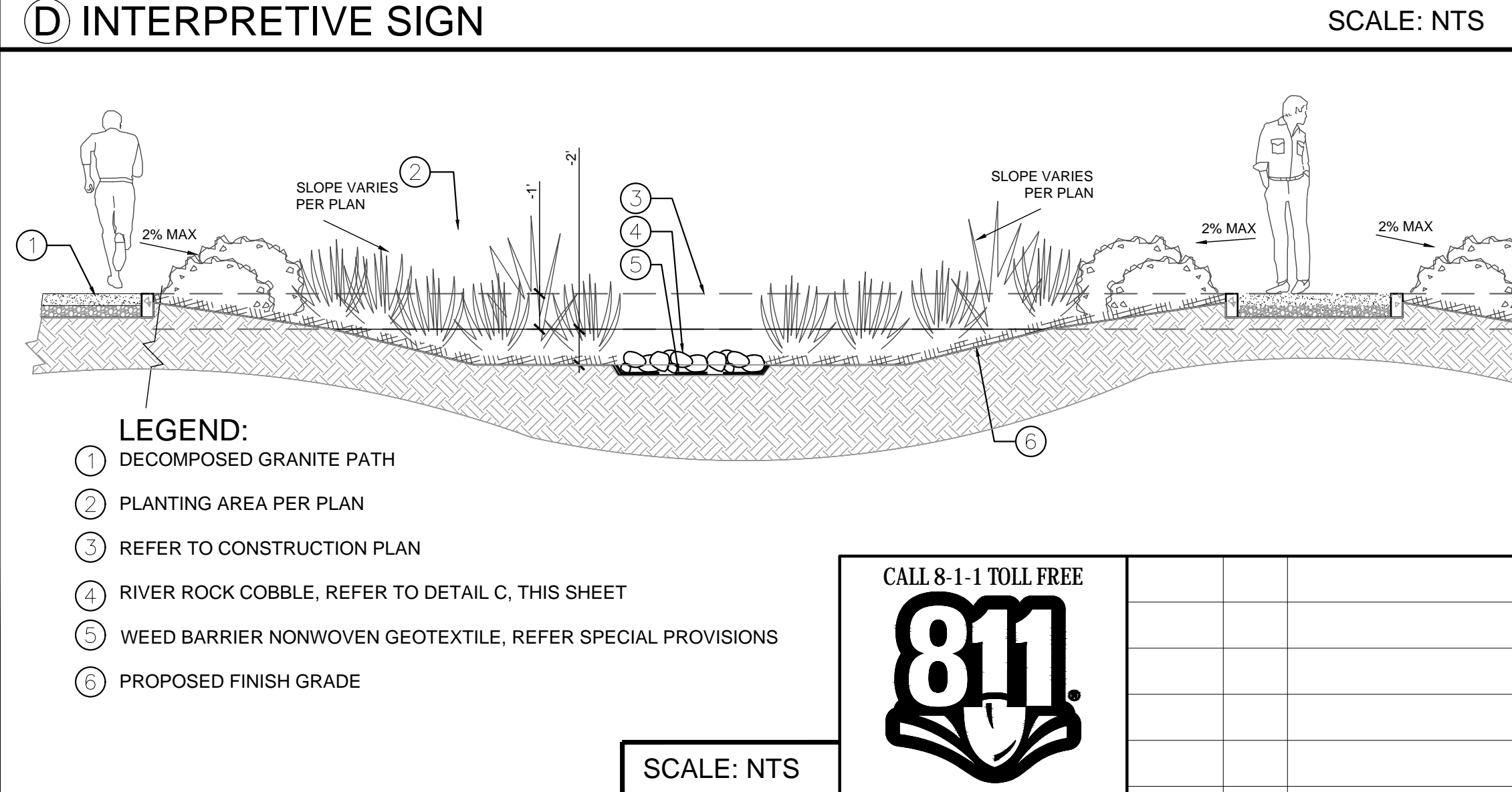
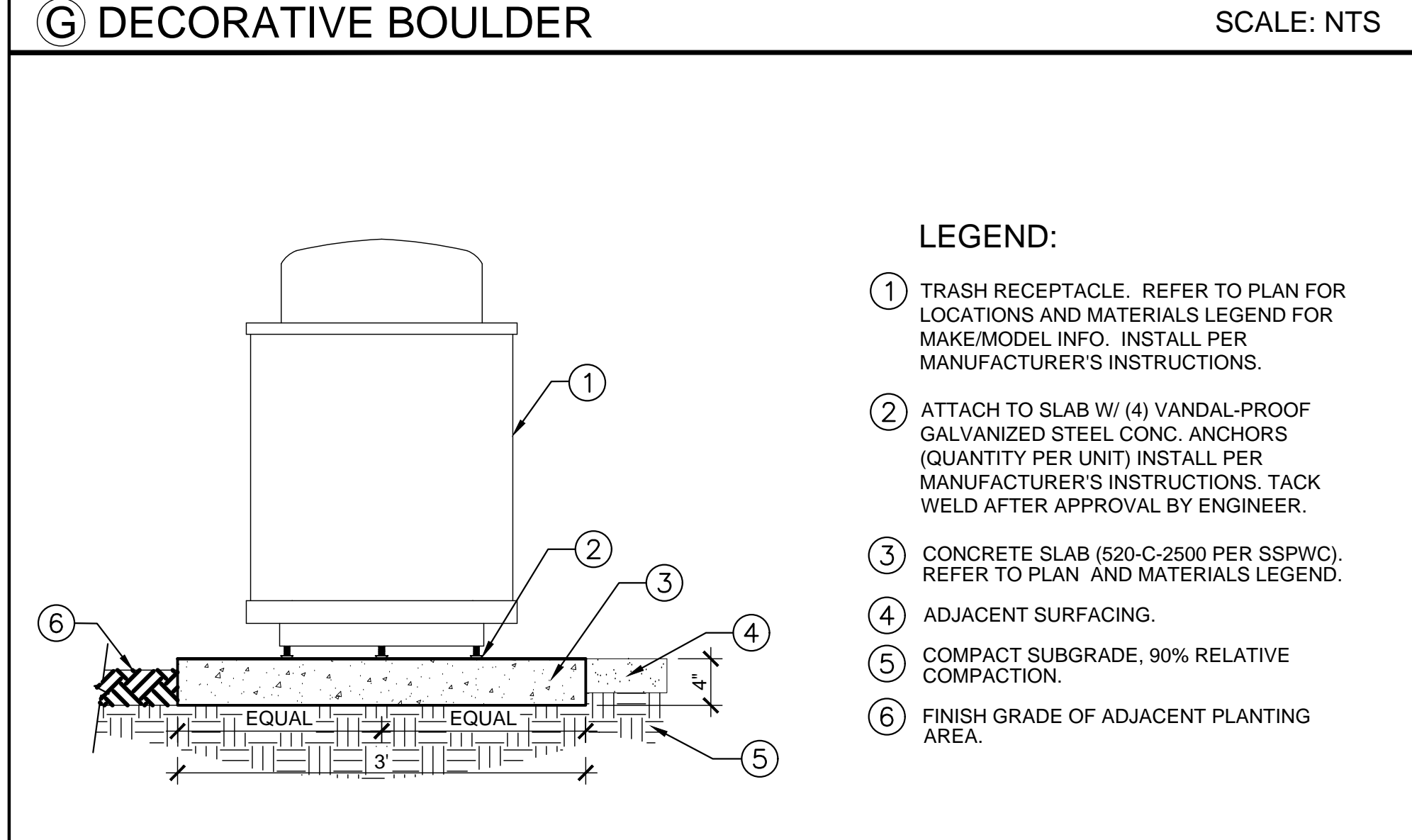
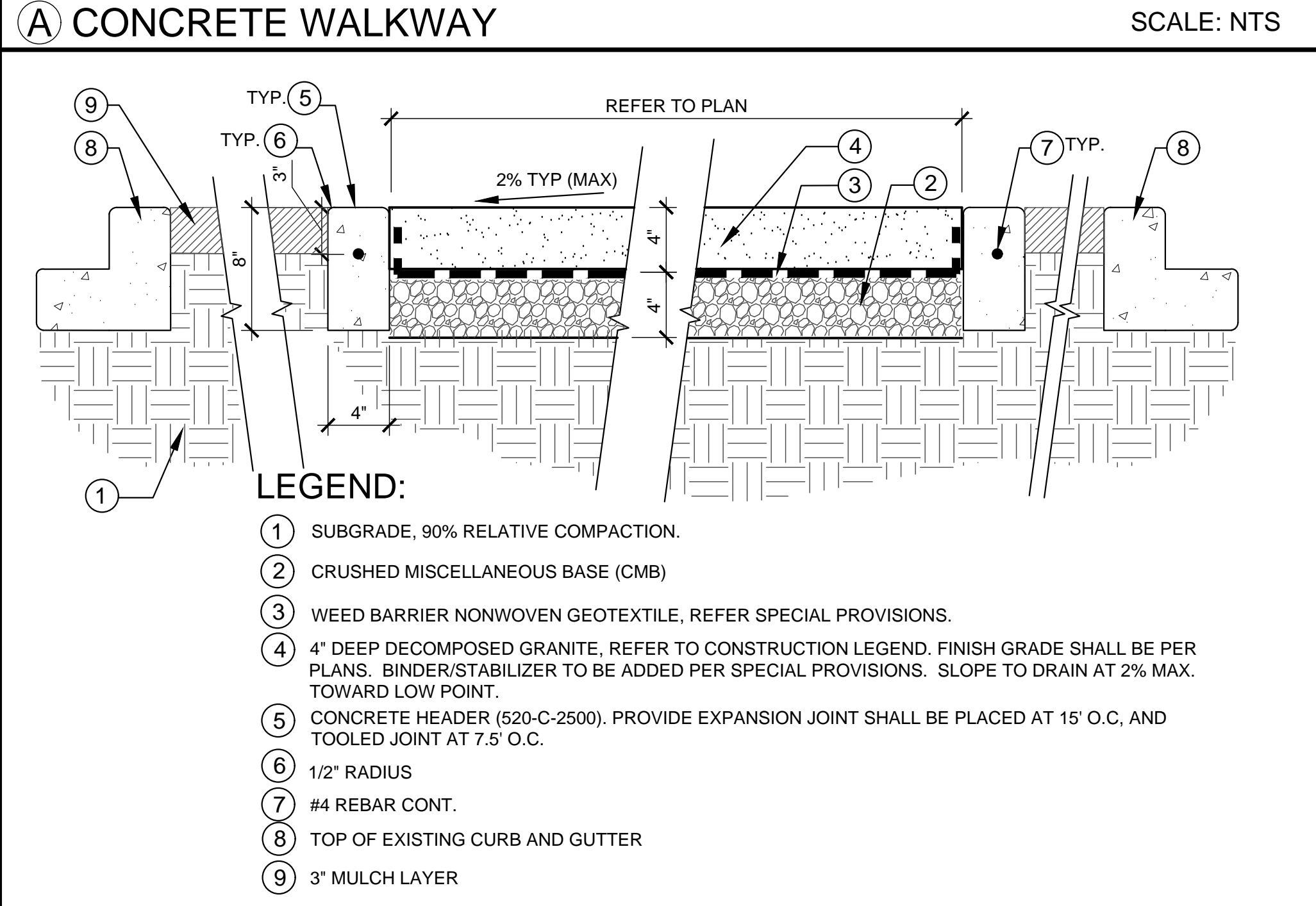
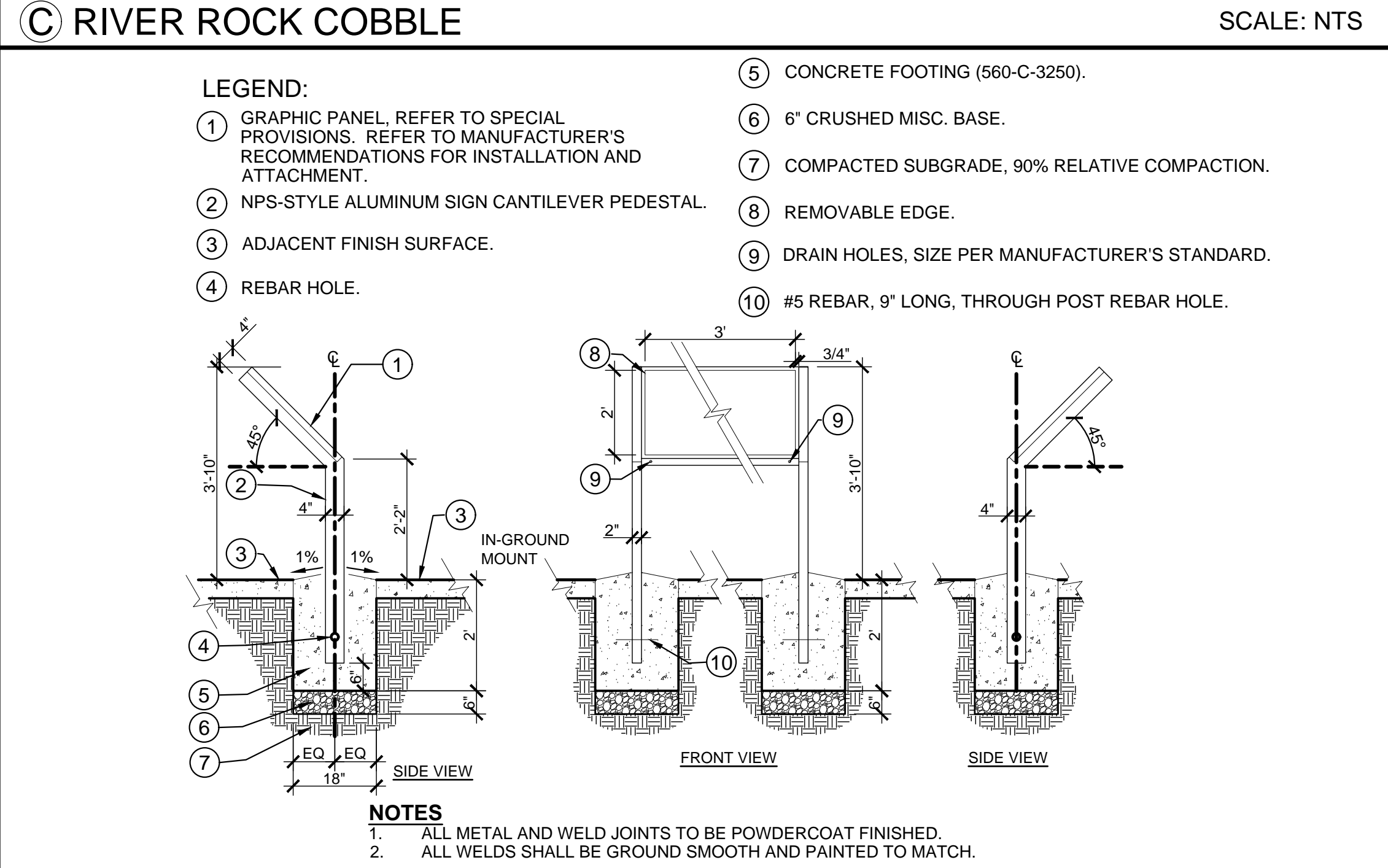
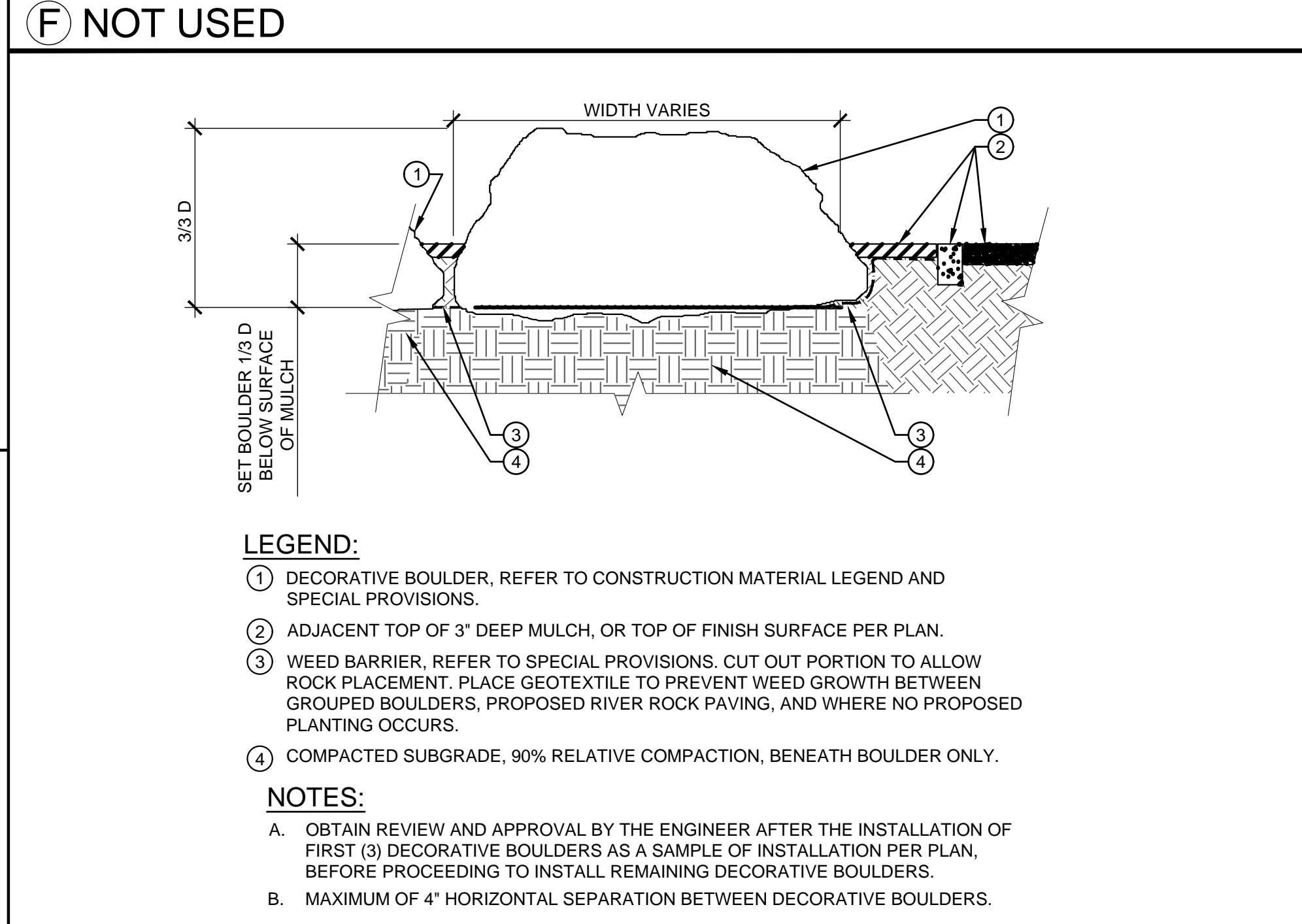
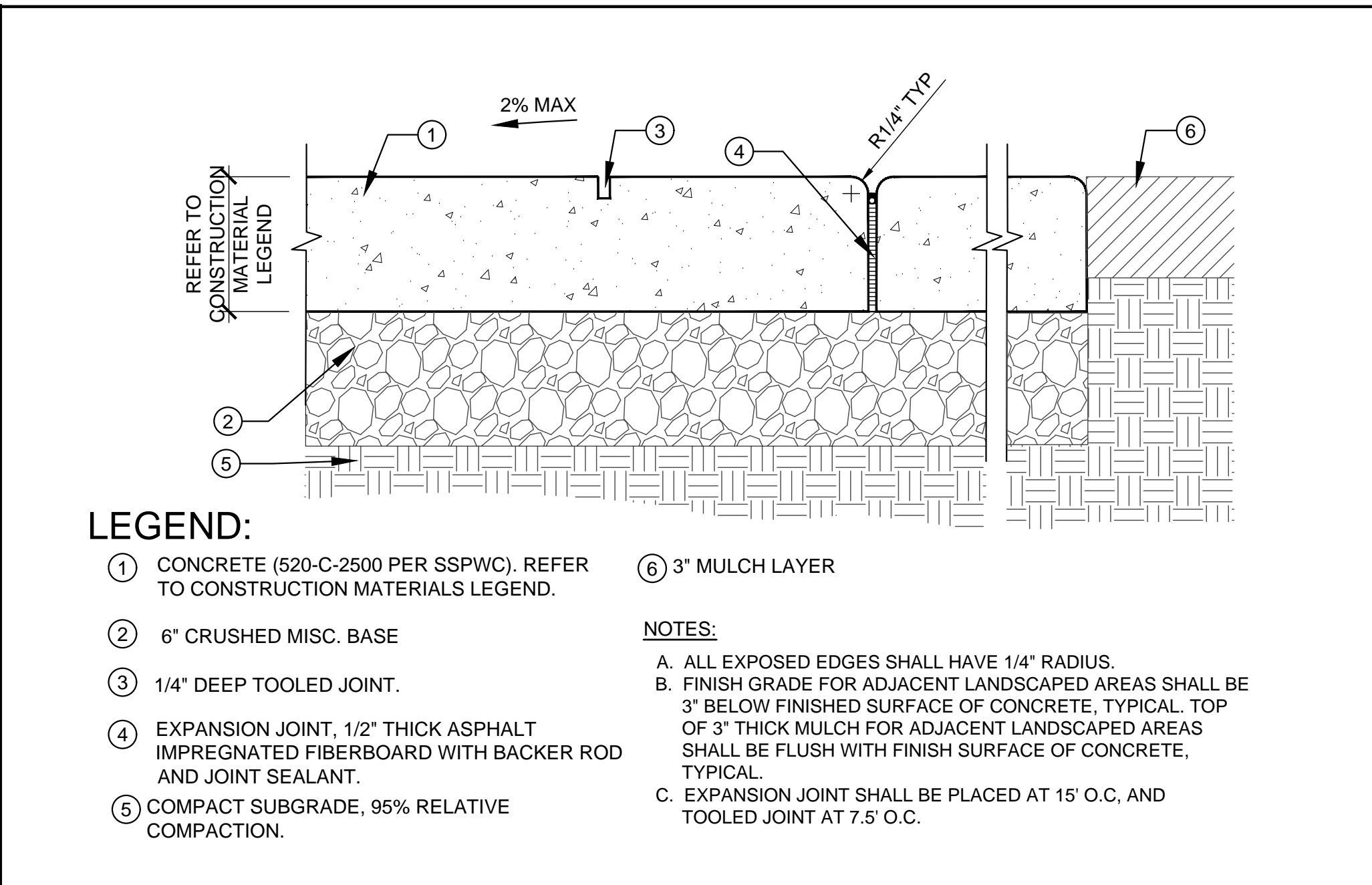
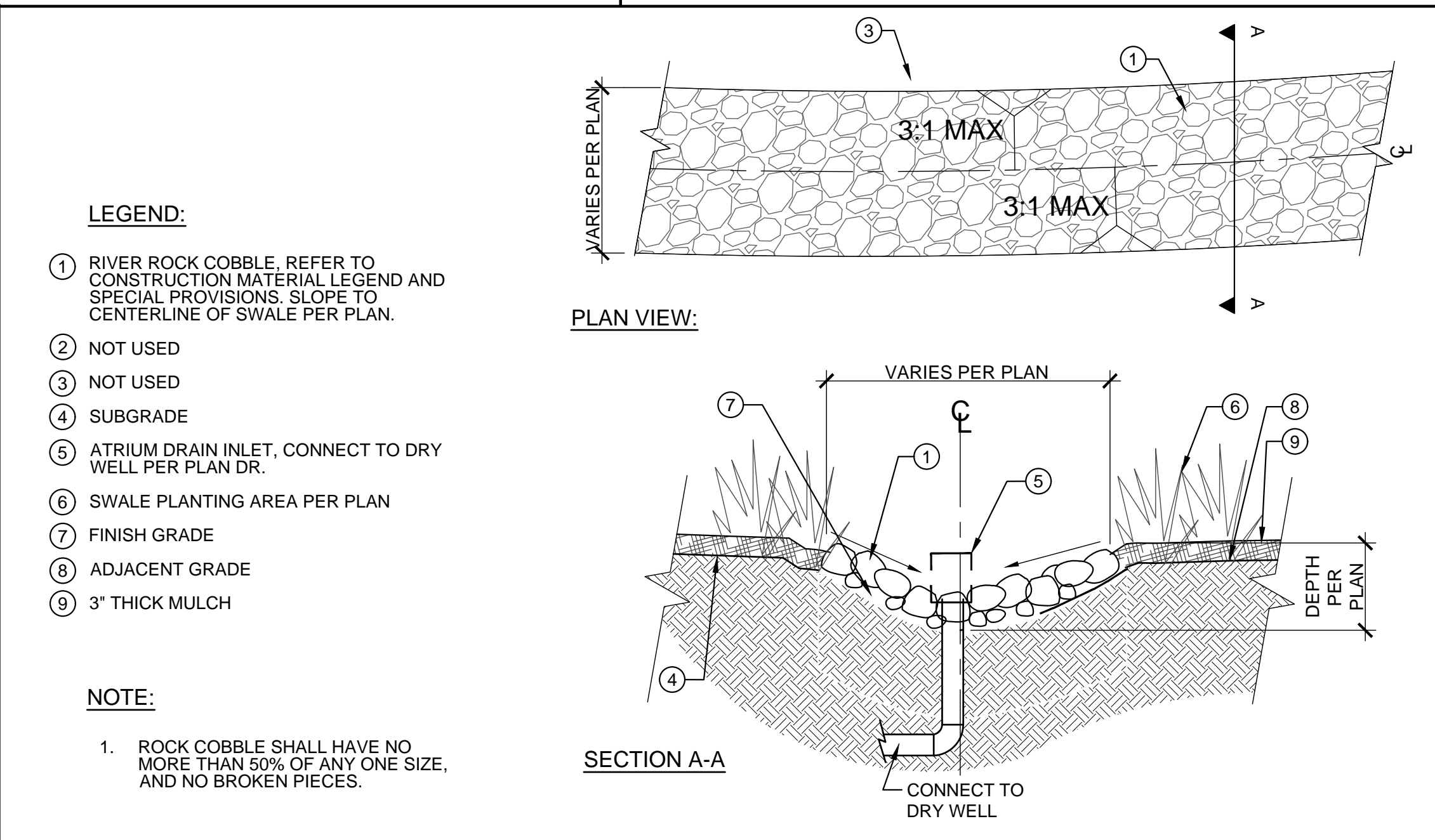
LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

PLANTING PLAN
NORTHSIDE DR. AT EASTON ST.

LACFCD INDEX NO. 116-D27 PCA

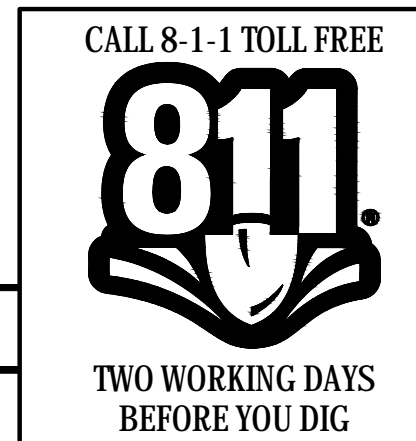
LS-9.02
SHEET 18 OF 26



(H) TRASH RECEPTACLE FOOTING SCALE: NTS

(E) SECTION A-A AND SECTION B-B SCALE: NTS

(B) STABILIZED D.G. AND CONCRETE HEADER SCALE: NTS



DATE	MK	DESCRIPTION

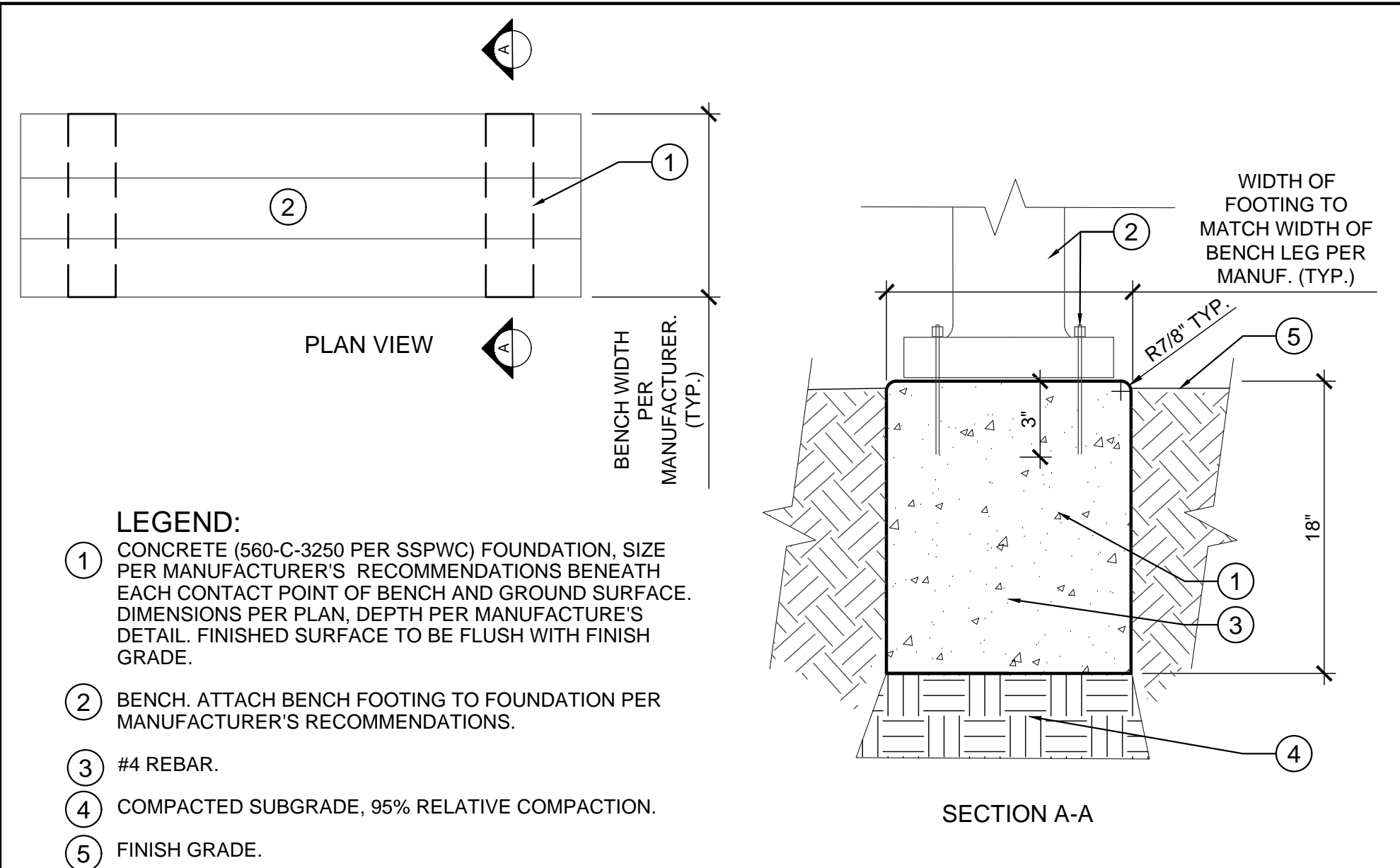


LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010
CONSTRUCTION DETAILS

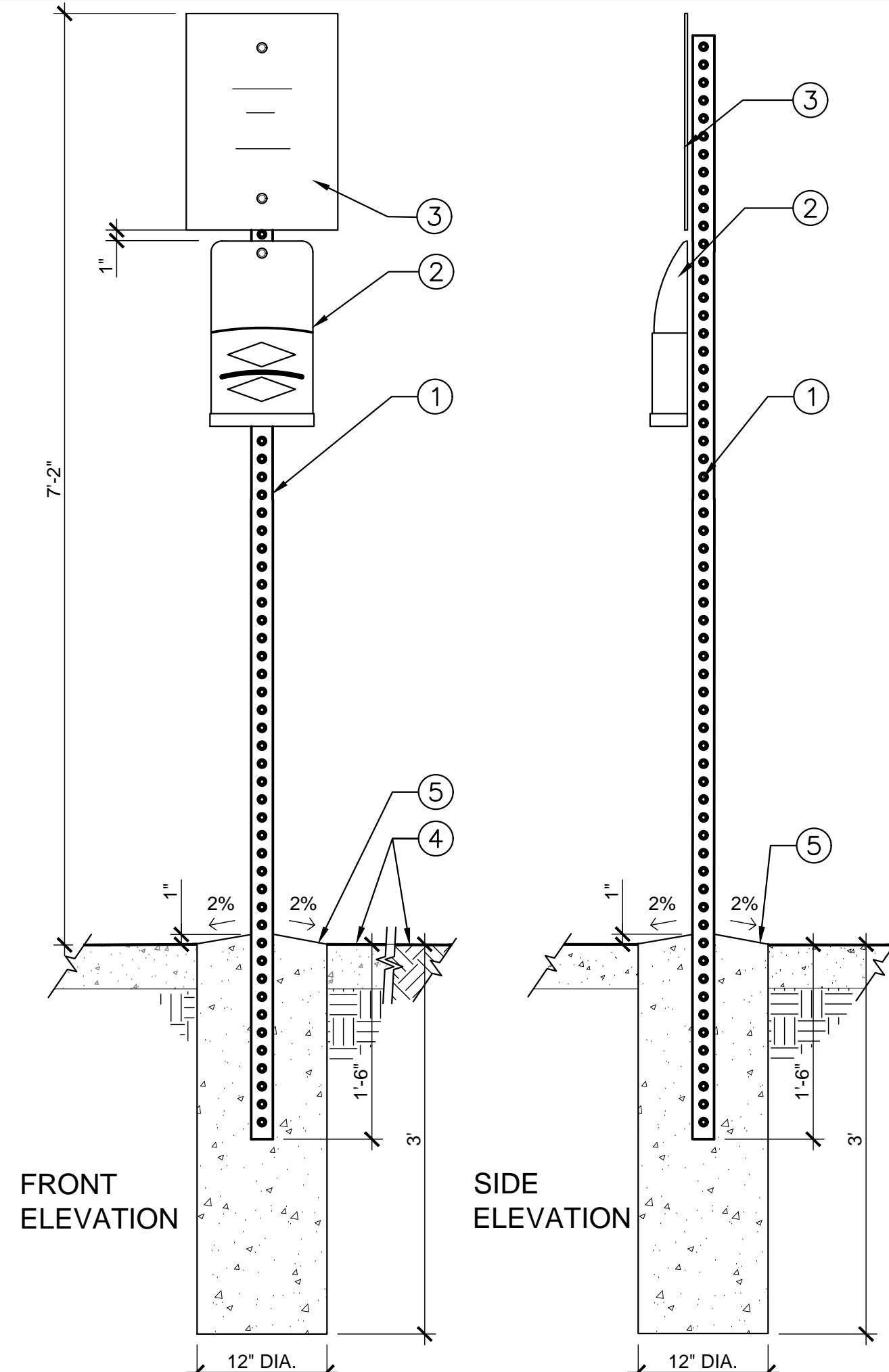
LS-10.00

LACFCD INDEX NO. 116-D27 PCA SHEET 19 OF 27



C BENCH FOOTING

SCALE: NTS



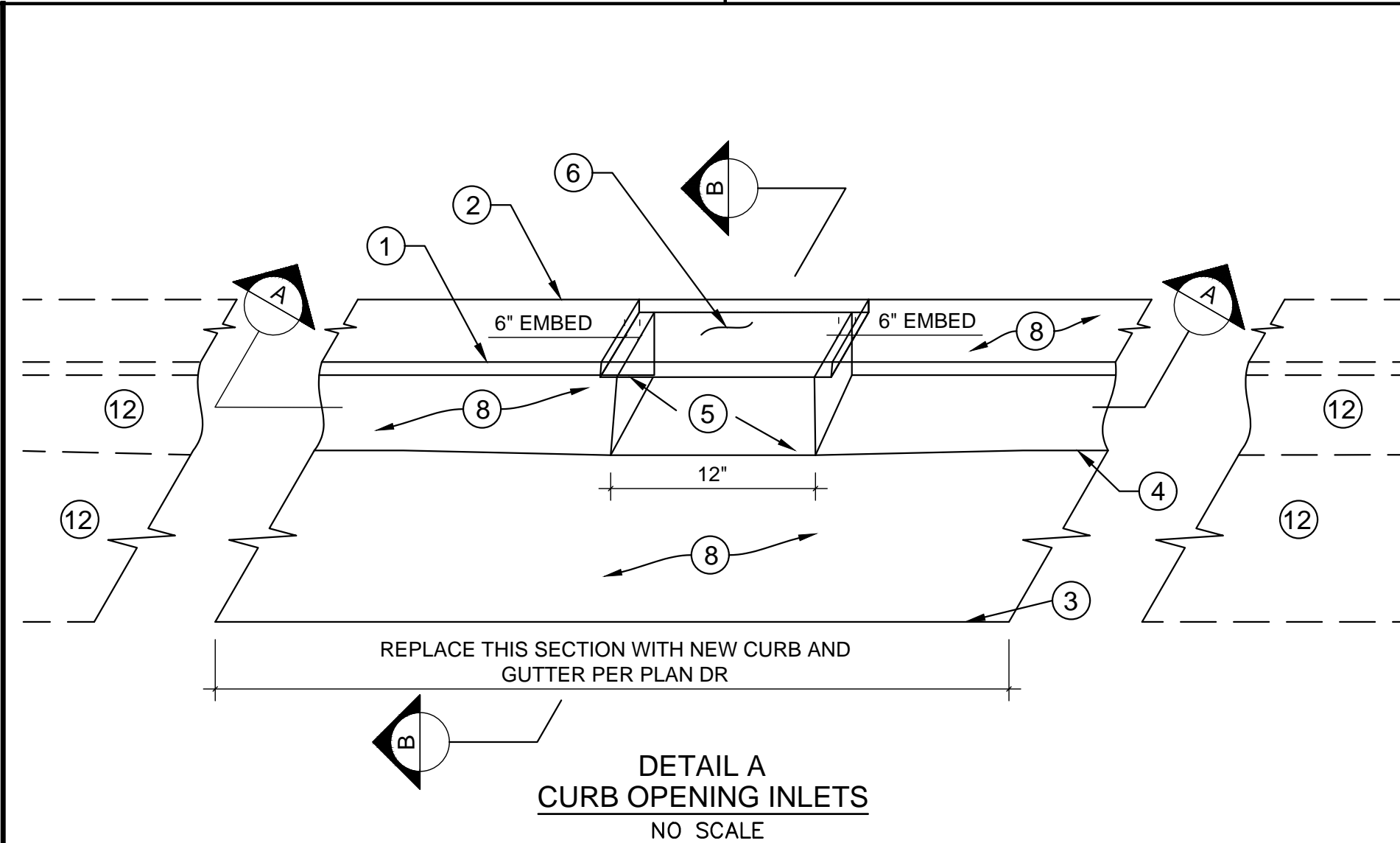
- LEGEND:**
- ① GALVANIZED STEEL, SQUARE TELESCOPIC POST & CAP, DP-1301-P & DP-1307.
 - ② BAG DISPENSER & BAGS, DP-1007-2 & DP-1402-30.
 - ③ SIGN, FOR GRAPHIC. SECURE WITH 1/2" DIA. X 3 1/2" LONG CARRIAGE BOLTS.
 - ④ ADJACENT FINISH SURFACE/ FINISH GRADE, REFER TO PLAN.
 - ⑤ 12" DIAMETER PCC FOOTING (560-C-3250 PER SSPWC).

NOTES:

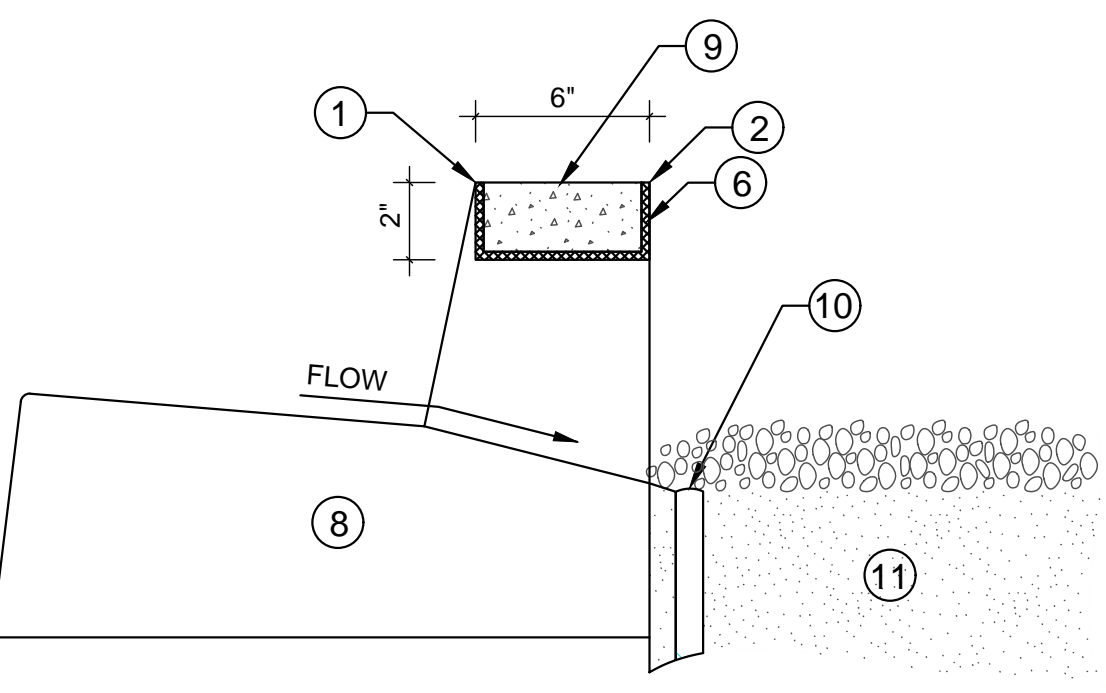
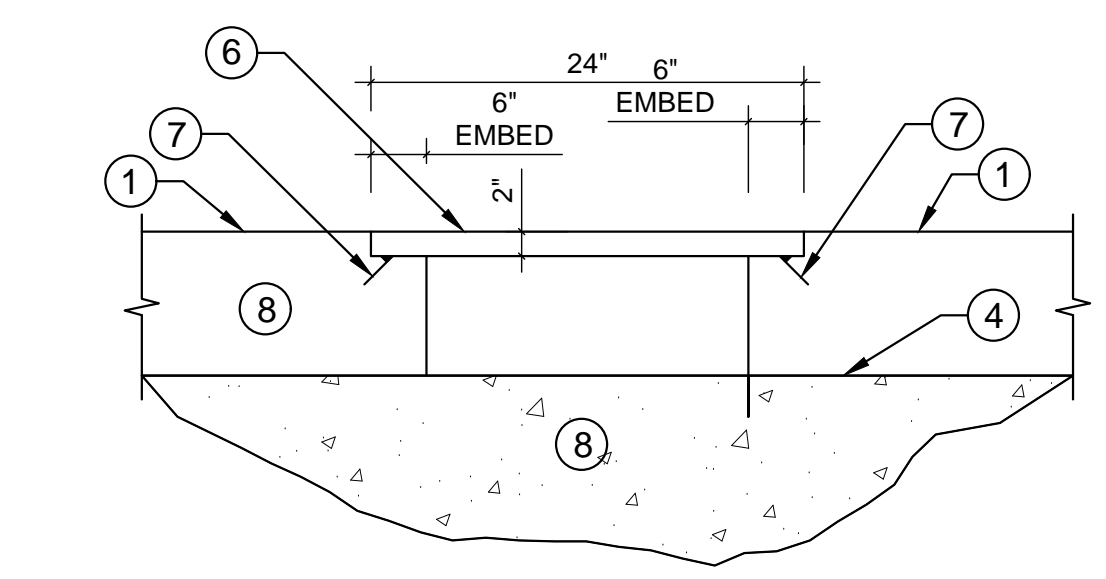
A. ALL SPECIFIED MODEL NUMBERS OR ALTERNATIVE LISTED IN SPECIAL PROVISIONS.

D PET WASTE STATION

SCALE: NTS



- NOTES:**
- 1. SPACING BETWEEN CELLS AT BASE, 2" MIN - 4" MAX



- LEGEND:**
- ① TOP OF CURB.
 - ② BACK OF CURB.
 - ③ EDGE OF GUTTER.
 - ④ FLOW LINE.
 - ⑤ CURB OPENING.
 - ⑥ 1/4" GALVANIZED STEEL "C" CHANNEL.
 - ⑦ 3" GALVANIZED STEEL STUD.
 - ⑧ NEW CURB AND GUTTER.
 - ⑨ FILL CHANNEL 2" WITH CONCRETE (520-C-2500 PER SSPWC)
 - ⑩ LINEAR ROOT BARRIER PER STANDARD PLAN 520.
 - ⑪ PLANTING AREAS, REFER TO PLAN.
 - ⑫ EXISTING CURB AND GUTTER.

B CURB CUT DETAIL

SCALE: NTS

A SOIL TEST LOCATION MATRIX

SCALE: NTS

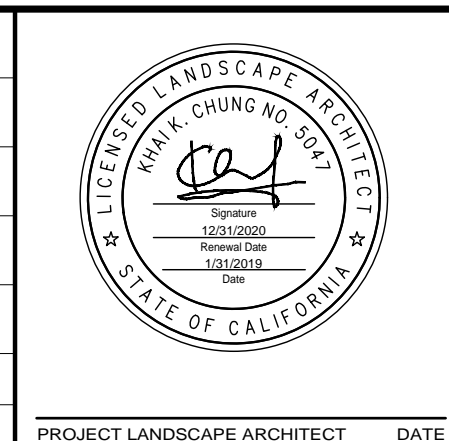
GENERAL CONSTRUCTION AND REMOVAL NOTES:

1. REFER TO PLAN DR FOR TREES DESIGNATED FOR REMOVAL AND FOR OTHER REMOVALS. REFER TO PLAN DR FOR PAVING AND CURB AND GUTTER IMPROVEMENTS.
2. PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY PERCEIVED DISCREPANCY BEFORE THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY THE DEPTH OF UTILITY LINES PRIOR TO ALL CONSTRUCTION WORK. UTILITY INFORMATION LISTED IS FOR PRELIMINARY REFERENCE ONLY.
4. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES FROM EXISTING UTILITY LINES AND FACILITIES SHALL BE 18" EXCEPT FOR GAS COMPANY UTILITY LINES, WHICH SHALL BE 24" OR PER REVIEW AND APPROVAL FROM THE ENGINEER.
5. ALL MEDIANS SHALL HAVE EXISTING TURF, REMOVED TO A DEPTH OF 3". THE CONTRACTOR SHALL REMOVE UNCLASSIFIED EXCAVATION MATERIALS ACCORDING TO THE PROPOSED GRADING SHOWN ON THE PLANS. REFER TO PLANS FOR ADDITIONAL REMOVALS AND GRADING DETAILS AS PART OF UNCLASSIFIED EXCAVATION WORK.
6. CONTOUR GRADING SHOWN ARE FOR ROUGH GRADING. REFER TO CONSTRUCTION DETAILS FOR FINISH SURFACES AND FINISH GRADE ELEVATIONS WHERE PROPOSED CONTOUR GRADES CROSS DECOMPOSED GRANITE PATH, BIOSWALES, AND OTHER IMPROVEMENTS.
7. THE CONTRACTOR SHALL POTHOLE FOR EXISTING STREET LIGHT CONDUITS AS NEEDED WHERE CONFLICTS OCCUR WITH PROPOSED SWALES IN MEDIANS AND OTHER PROPOSED IMPROVEMENTS AS NECESSARY. CONTRACTOR SHALL RELOCATE EXISTING CONDUIT WHERE CONFLICTS OCCUR TO MAINTAIN 30 INCHES OF COVER AND AS DIRECTED BY EDISON REQUIREMENTS. THE CONTRACTOR SHALL CONTACT THE SCE PLANNER (NOELLE PETERSON) AT (310) 608-5162 TO COORDINATE THE WORK THAT NEEDS TO BE PERFORMED.
8. THE CONTRACTOR SHALL POTHOLE FOR EXISTING IRRIGATION MAINLINE AS NEEDED WHERE CONFLICTS OCCUR WITH PROPOSED SWALES IN MEDIANS AND OTHER PROPOSED IMPROVEMENTS AS NECESSARY. CONTRACTOR SHALL RELOCATE EXISTING MAINLINE AND APPURTENANCES WHERE CONFLICTS OCCUR, REFER TO IRRIGATION NOTES ON LS-11.00 AND PIPE TRENCHING DETAIL E, LS-11.01 FOR MORE INFORMATION.
9. THE CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING MONITORING WELLS. IN PLANTING AREAS, CHANGES BETWEEN THE TOP OF THE FINISH SURFACE OF THE MONITORING WELL AND THE ADJACENT FINISH GRADE OF PLANTING AREA SHALL NOT EXCEED 6" FROM THE DOWNSLOPE SIDE. LOCATE PROPOSED CONCRETE HEADERS 1" CLEAR MINIMUM AND OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO COMMENCEMENT OF WORK. IN AREAS OF DECOMPOSED GRANITE, ADJUST ELEVATION OF MONITORING WELL FOR A SMOOTH LEVEL TRANSITION WITH A VERTICAL LIP NOT TO EXCEED 1/4" COMPARED TO THE ADJACENT TOP OF DECOMPOSED GRANITE.
10. THE CONTRACTOR SHALL INSTALL IMPORT CLASS "A" TOPSOIL PER SPECIAL PROVISIONS TO THE DEPTH OF 24" FOR THE PLANTING AREAS AT THE ISLAND PASSAGEWAYS. THE ISLAND PASSAGEWAYS ARE AT THE INTERSECTIONS OF: NORTHSIDE AVE AND GARFIELD AVE AND SOUTHSIDE AVE AND GARFIELD AVE, REFER TO PLAN DR FOR MORE INFORMATION REGARDING ISLAND PASSAGEWAY.
11. THE CONTRACTOR SHALL LAY OUT FLATWORK FORMS, MARK LOCATIONS FOR SITE IMPROVEMENTS, AND OBTAIN APPROVAL FROM THE ENGINEER FOR PRIOR TO COMMENCEMENT OF WORK.
12. ALL SITE FURNISHINGS HARDWARES SHALL BE VANDAL/TAMPER PROOF STAINLESS STEEL HARDWARE. AFTER APPROVAL FROM THE ENGINEER, SECURE ALL ANCHOR BOLTS BY TACK WELDING.
13. PARACOURSE, REFER TO PARACOURSE EQUIPMENT INSTALLATION SHOWN ON LS-10.02.
14. AMERICAN WITH DISABILITIES ACT (ADA) REQUIREMENTS SHALL BE MET PER THE LATEST VERSION OF THE LOS ANGELES COUNTY BUILDING CODE. THE WORK SHALL CONFORM TO ALL APPLICABLE CODES RELATED TO ADA REQUIREMENTS. A PARTIAL LIST OF THE CALIFORNIA BUILDING CODE INCLUDE: CHAPTER 11B-221.3; 11B-305; 11B-602; 11B-802.1; 11B-902. AND THE FOLLOWING:
 - 14.1. ALL PARK AMENITY IMPROVEMENTS, SUCH AS BENCHES AND PICNIC TABLES, SHALL HAVE FEATURES TO MEET THE BUILDING CODE INCLUDING ANY AND ALL MARKINGS SUCH AS ADDED SYMBOLS AND PAINT STRIPING.
 - 14.2. ALL PARACOURSE EXERCISE EQUIPMENT SHALL ALLOW 48 INCHES MIN. BARRIER-FREE ACCESS AND TRANSFER AREA.
15. CONTRACTOR SHALL MAINTAIN AN ACCURATE "AS-BUILT" RECORD SET OF PLANS FOR ALL WORK PERFORMED UNDER THIS CONTRACT. THESE "AS-BUILT" PLANS SHALL SHOW ALL CHANGES MADE TO THE ORIGINAL PLANS AND SPECIFICATIONS, INCLUDING EXACT "AS-BUILT" LOCATIONS, SIZES AND KINDS OF EQUIPMENT/ MATERIALS PROVIDED. THE FINAL "AS-BUILT" RECORD SET OF PLANS SHALL BE SUBMITTED TO THE AGENCY AT THE COMPLETION OF WORK, PRIOR TO THE START OF THE PLANT ESTABLISHMENT PERIOD.
16. CONTRACTOR SHALL REMOVE EXISTING IRRIGATION VALVES THAT ARE NO LONGER IN USE DUE TO NEW IRRIGATION SYSTEM. BACKFILL HOLES TO LEVEL WITH ADJACENT FINISHED GRADES.
17. WHERE UTILITY BOXES ARE IN CONFLICT WITH PROPOSED DESIGN, CONTRACTOR SHALL RELOCATE TO ACCOMMODATE THE DESIGN. WITH ENGINEER'S APPROVAL, DESIGN MAY BE ADJUSTED TO ACCOMMODATE. IT WILL BE AT THE AGENCY DISCRETION.

SOIL TEST CALLOUT PER CONSTRUCTION MATERIAL LEGEND	LOCATION STATION NUMBER PER PLAN DR	NOTES
25A	102+00 (NORTHSIDE DR)	REFER TO SPECIAL PROVISIONS
25B	110+00 (NORTHSIDE DR)	
25C	202+00 (SOUTHSIDE DR)	
25D	209+00 (SOUTHSIDE DR)	
25E	12+00 (MONTEBELLO PKWY)	
25F	18+00 (MONTEBELLO PKWY)	



DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN

STORMWATER CAPTURE PROJECT

PROJECT ID NO. WMU0000010

CONSTRUCTION NOTES AND DETAILS

LS-10.01

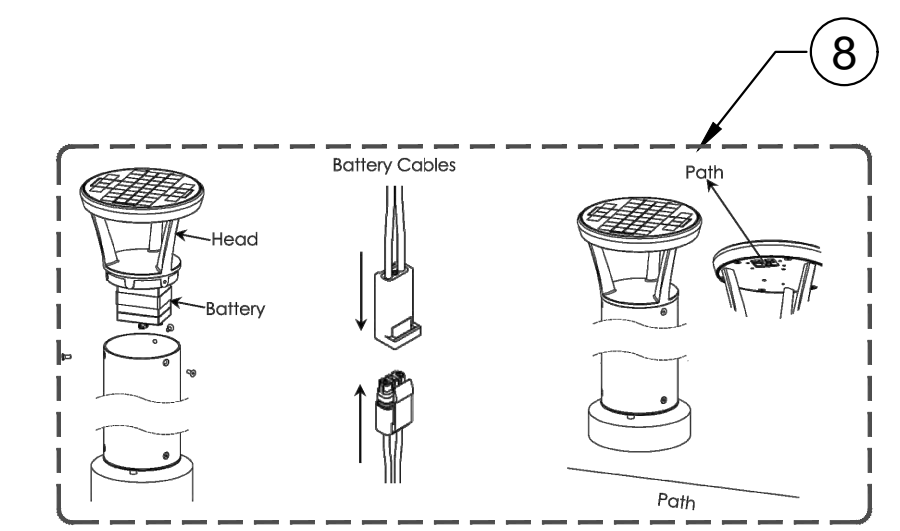
LACFCD INDEX NO. 116-D27 PCA SHEET 20 OF 27

PARACOURSE EXERCISE EQUIPMENT A-D SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING, REFER TO SPECIAL PROVISIONS FOR MORE INFORMATION.

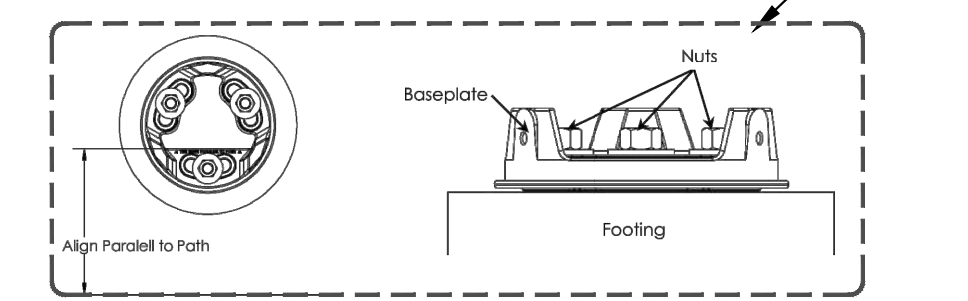
PARACOURSE EXERCISE EQUIPMENT: STATION NO.	MANUFACTURER: MODEL NAME & MODEL NUMBER	QUANTITY PER STATION	TOTAL QUANTITY FOR PROJECT
Station "A"	GREENFIELDS: 4-PERSON PENDULUM, ABS AND DIPS MODEL: SGR2005-1-22	1	6
	GAMETIME: SIT-UP/BACK EXTENSION MODEL: 13561-F	2	12
	LANDSCAPE STRUCTURES: HEALTHBEAT ELLIPTICAL MODEL: 192457 HEALTHBEAT PULL-UP/DIP MODEL: 192460	2 2	11 11
Station "B"	GREENFIELDS: 2-PERSON UPPER BODY COMBO MODEL: SGR2005-1-42	1	5
	GAMETIME: LAT-PULL DOWN MODEL: 13272-F	1	5
	LANDSCAPE STRUCTURES: HEALTHBEAT HAND CYCLER MODEL: 205938 HEALTHBEAT TAI CHI MODEL: 192463	1 1	5 5
Station "C"	GREENFIELDS: 2-PERSON ACCESSIBLE CHEST PRESS MODEL: SGR2005-1-48-W	1	6
	GAMETIME: CHEST PRESS (ACCESSIBLE) MODEL: 13271-F	1	6
	LANDSCAPE STRUCTURES: HEALTHBEAT CHEST/BACK PRESS MODEL: 192456	2	12
Station "D"	GREENFIELDS: 4-PERSON LEG PRESS MODEL: SGR2005-1-104N	1	3
	GAMETIME: LEG PRESS MODEL: 13559-F	4	12
	LANDSCAPE STRUCTURES: HEALTHBEAT SQUAT PRESS MODEL: 192461	4	12

PARACOURSE EQUIPMENT INSTALLATION NOTES:

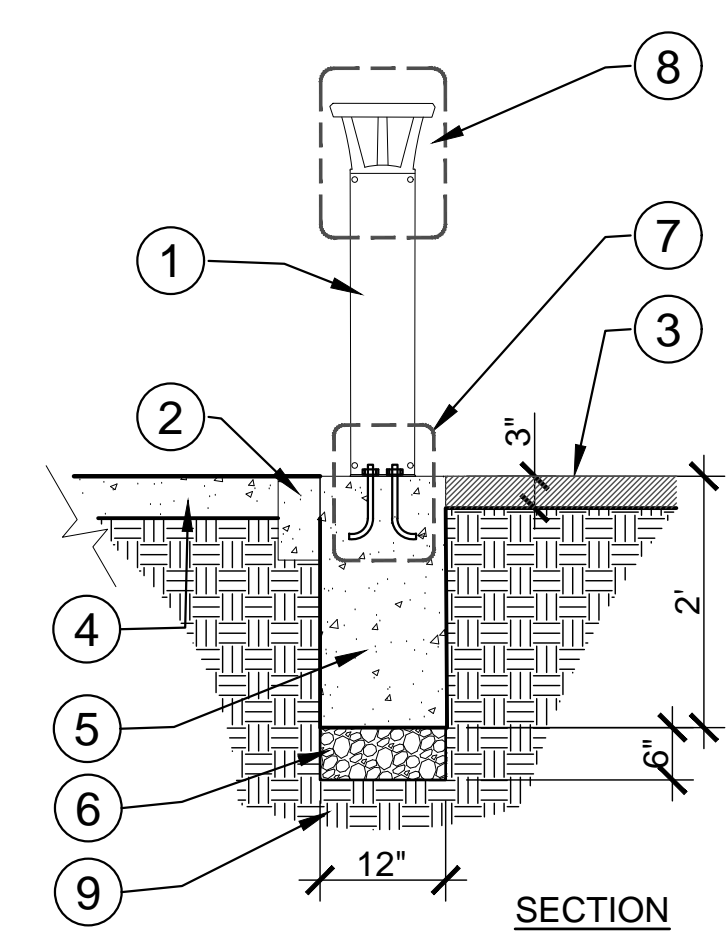
- REFER TO PLAN FOR LOCATIONS.
- REFER TO CONSTRUCTION NOTES, LS-10.01.
- REFER TO SPECIAL PROVISIONS FOR MORE INFORMATION ON PARACOURSE EXERCISE EQUIPMENT AND INSTALLATION REQUIREMENTS.
- CONTRACTOR SHALL FIELD MARK THE ORIENTATION OF THE EQUIPMENT AND RECEIVE FINAL APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION.
- INSTALL PARACOURSE EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS USING STAINLESS STEEL VANDAL/TAMPER PROOF HARDWARE ON CONCRETE FOOTING PER MANUFACTURER'S REQUIREMENTS. REFER TO PARACOURSE FOOTING DETAIL THIS SHEET.
- CONCRETE FOOTING FOR PARACOURSE EQUIPMENT SHALL BE FLUSH WITH SURROUNDING CONCRETE WALKWAY PER PLAN.



LIGHT HEAD ATTACHMENT



MANUFACTURER'S ANCHORING SYSTEM

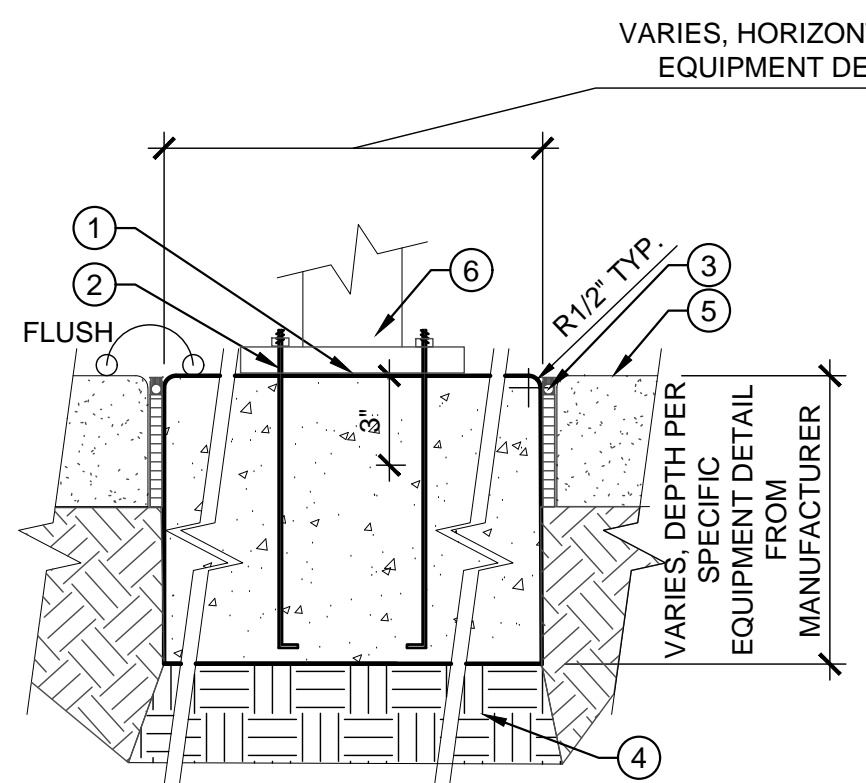


LEGEND:

- ① SOLAR POWERED LED BOLLARD PER MATERIAL LEGEND
- ② ADJACENT CONCRETE CURB PER PLAN
- ③ 3" MULCH LAYER IN PLANTING AREA
- ④ ADJACENT PAVING
- ⑤ CONCRETE FOOTING (560-C-3250).
- ⑥ 6" CRUSHED MISC. BASE.
- ⑦ ANCHORING CONNECTION PER MANUFACTURER'S TAMPER PROOF ANCHORING SYSTEM.
- ⑧ LIGHT HEAD ATTACHMENT PER MANUFACTURER'S INSTRUCTION.
- ⑨ 90% RELATIVE COMPACTED SUBGRADE

B) PARACOURSE EXERCISE EQUIPMENT STATIONS "A" THROUGH "D" MATRIX AND INSTALLATION NOTES

A) PEDESTRIAN BOLLARD LIGHTING SCALE: NTS



LEGEND:

- ① CONCRETE (560-C-3250 PER SSPWC) FOUNDATION. SIZE PER MANUFACTURER'S RECOMMENDATIONS. DIMENSIONS VARY ACCORDING TO EQUIPMENT SPECIFIED AT LOCATION, REFER TO PLAN. DEPTH PER MANUFACTURER'S DETAIL, REFER TO LS-10.02 AND SPECIAL PROVISIONS. FINISHED SURFACE TO BE FLUSH WITH ADJACENT PAVING.
- ② 1/2" J- BOLT, QUANTITY PER INDIVIDUAL EQUIPMENT REQUIREMENTS. INSTALL VANDAL/TAMPER PROOF GALVANIZED STEEL HARDWARE WITH 1/2" REVEAL MIN. TO EXTEND ABOVE EQUIPMENT FRAME. TACK WELD AFTER APPROVAL BY ENGINEER.
- ③ EXPANSION JOINT, 1/2" THICK ASPHALT IMPREGNATED FIBERBOARD WITH BACKER ROD AND JOINT SEALANT.
- ④ COMPACTED SUBGRADE, 95% RELATIVE COMPACTION
- ⑤ ADJACENT CONCRETE SURFACE
- ⑥ EXERCISE EQUIPMENT

C) PARACOURSE FOOTING SCALE: NTS



DATE	MK	DESCRIPTION

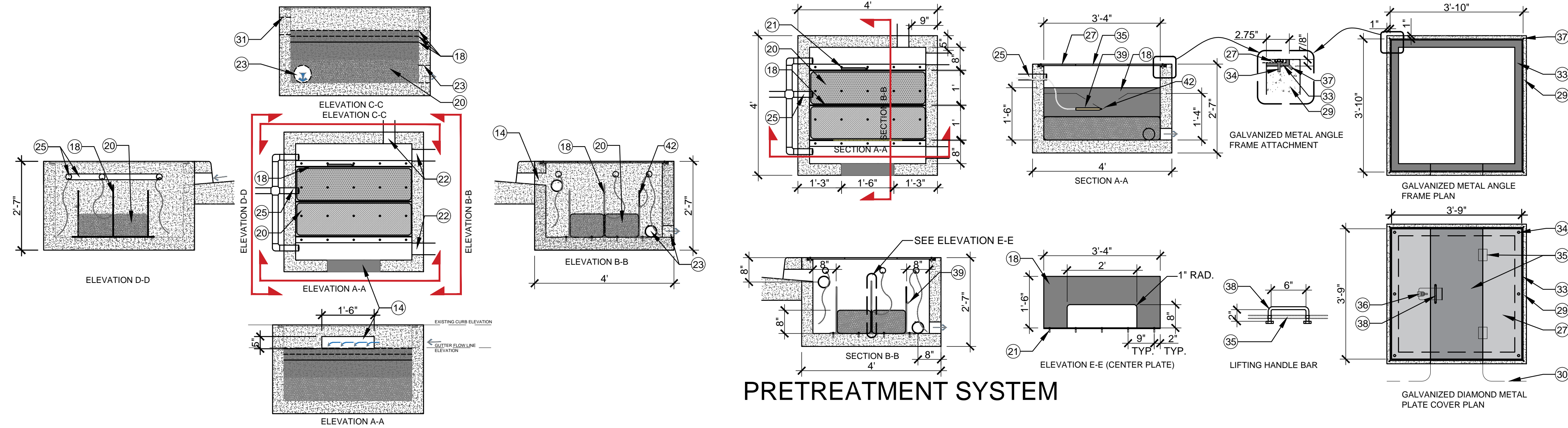


LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIUM STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010
 PARACOURSE EQUIPMENT AND PEDESTRIAN BOLLARD LIGHTING

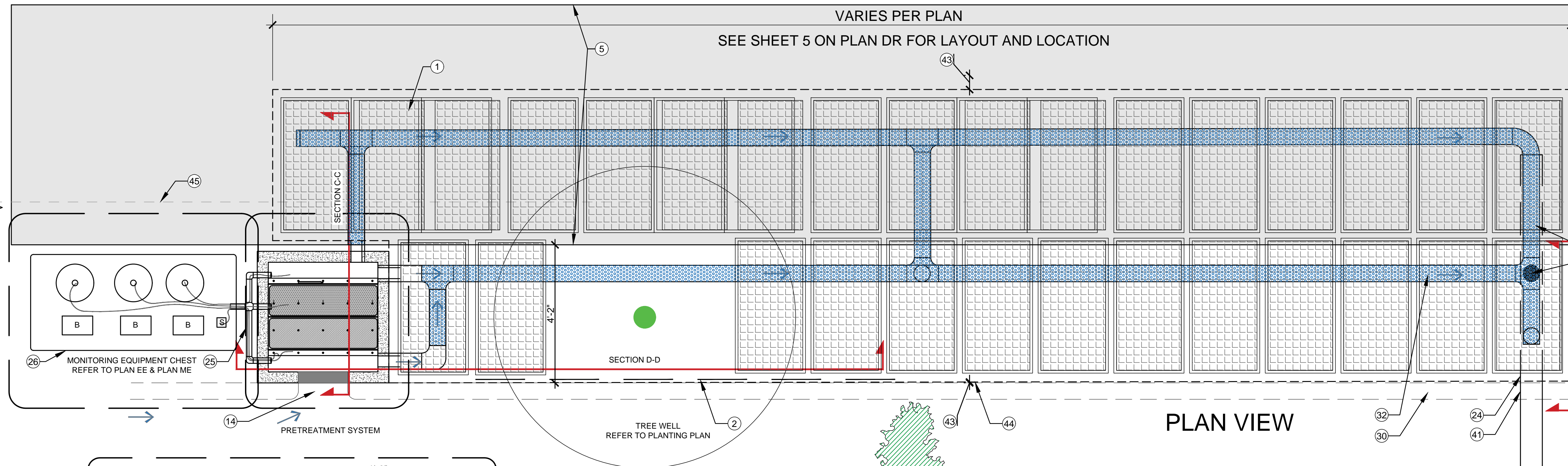
LS-10.02

LACFCD INDEX NO. 116-D27 PCA SHEET 21 OF 27

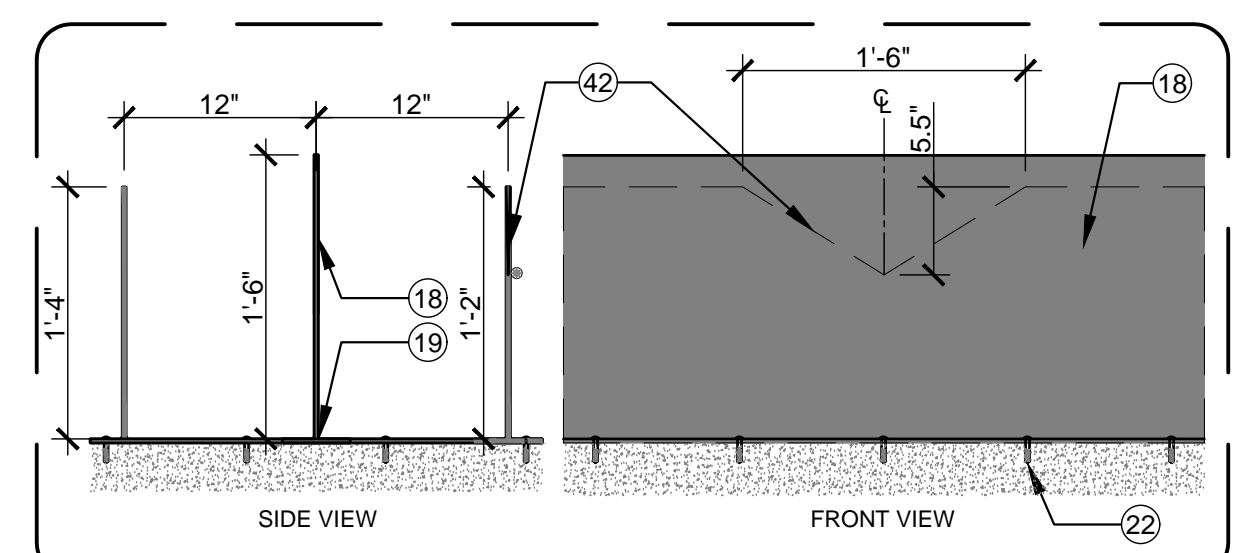


PRETREATMENT SYSTEM

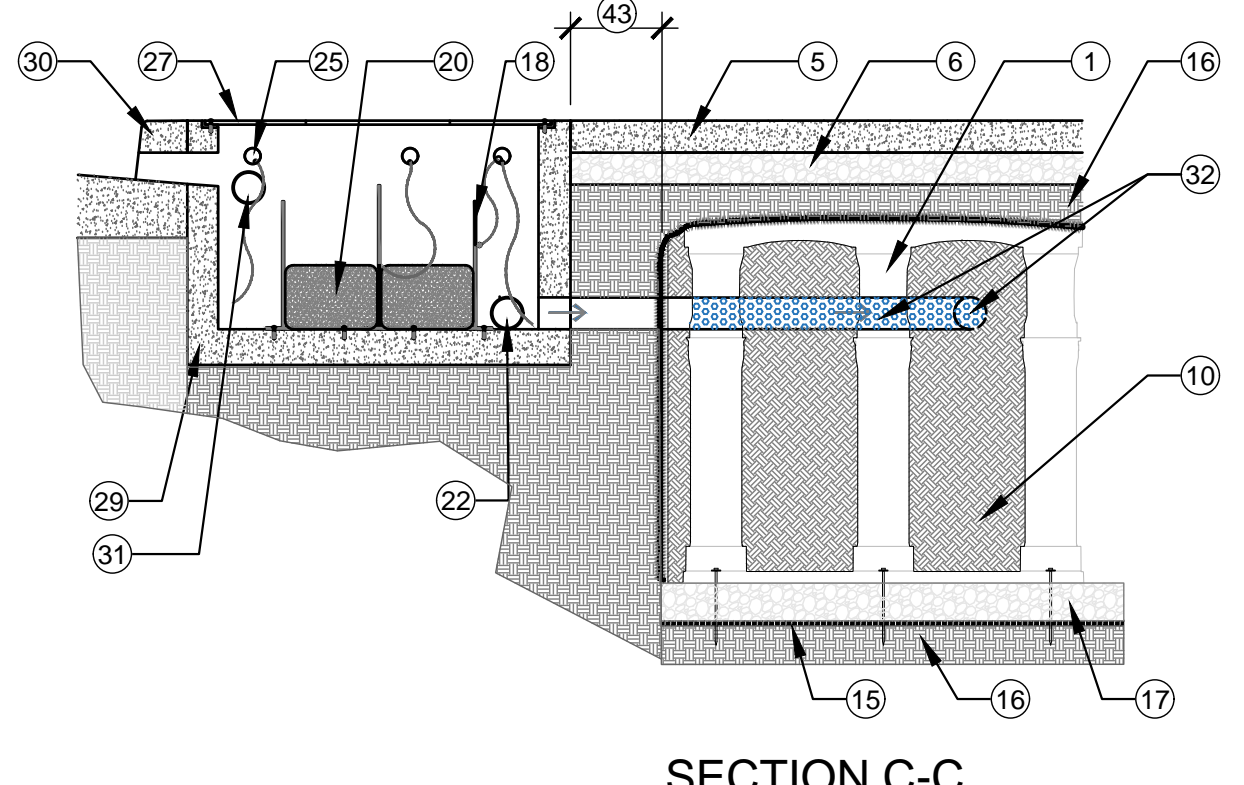
- LEGEND:**
- 42" - 48" HT. STRUCTURAL CELL MODULE SYSTEM (DECK, BASE, AND POSTS TOTAL. NOTE THAT HEIGHT VARIES DEPENDING ON MANUFACTURER SPECIFICATIONS.)
 - 18" ROOT BARRIER. INSTALL DIRECTLY ADJACENT TO CONCRETE EDGE RESTRAINT.
 - TREE ROOT BALL
 - 3" MULCH
 - CONCRETE SIDEWALK PER PLAN DR
 - 4" DEEP NO. 2 CONCRETE AGGREGATE PER SSPWC 200-1.4 (B)
 - GEOTEXTILE (REFER TO SPECIAL PROVISIONS), OVERLAP PAST EXCAVATION PER MANUFACTURER'S SPECIFICATIONS
 - GEOGRID (REFER TO SPECIAL PROVISIONS), TO LINE PERIMETER OF SYSTEM. INSTALL PER MANUFACTURE REQUIREMENTS
 - NATIVE SOIL
 - CLASS D BIO-SWALE SOIL AND BIOCHAR MEDIA MIX PER SPECIFICATIONS AND MEDIA MATRIX
 - PIN, PER MANUFACTURE SPECIFICATION.
 - INSTALL STRUCTURAL CELL MODULAR SYSTEM PER MANUFACTURER'S INSTALLATION RECOMMENDATION
 - NO. 2 CONCRETE AGGREGATE, VARIABLE THICKNESS, PER SSPWC 200-1.4 (B), RELATIVE COMPACTION
 - CURB CUT OPENING, REFER TO PLAN LS -10.01
 - GEOTEXTILE (REFER TO SPECIAL PROVISIONS), PLACED OVER COMPACTED SUBGRADE
 - SUBGRADE, 90% RELATIVE COMPACTION
 - BASE SLOPE, 7% MAX. SLOPE TO 6" DIA PERFORATED PVC.
 - 3" THICK GALVANIZED METAL PLATE
 - 1/2" WELD JOINT BOTH SIDE. GRIND WELD JOINTS SMOOTH.
 - GEOTEXTILE (REFER TO SPECIAL PROVISIONS), BAG FILLED WITH SAND. FILL WITH SAND AND BIOCHAR PER MEDIA MATRIX BELOW.
 - 1/2" ROUNDED REDHEAD CONCRETE SCREW
 - 4" DIA SCH 80 PVC PIPE
 - 6" DIA SCH 80 PVC PIPE
 - 6" DIA SCH 80 PVC PIPE PERFORATED PIPE. 1/2" DIA HOLE AT 1 INCH ALTERNATING CENTER.
 - CONDUIT PER PLAN EE
 - MONITORING EQUIPMENT CHEST, REFER TO PLAN ME
 - 3" THICK GALVANIZED DIAMOND METAL COVER
 - 6" DIA ATRIUM DRAIN CAP
 - 4" THICK CONCRETE BOX, 520-C-2500. DIMENSIONS AS SHOWN.
 - CURB AND GUTTER PER PLAN DR
 - 4" DIA SCH 80 PVC PIPE OVERFLOW PIPE
 - 4" DIA SCH 80 PVC PIPE PERFORATED PIPE. 3/8" DIA HOLE AT 1 INCH ALTERNATING CENTER
 - 3" THICK GALVANIZED METAL ANGLE FRAME
 - 1/2" GALVANIZED THREADED ROD WITH NUT
 - 3" THICK GALVANIZED DIAMOND METAL PLATE ACCESS DOOR WITH GALVANIZED HEAVY DUTY HINGES
 - GALVANIZED METAL LOCKING DEVICE WELDED TO PLATE
 - 1/2" DIA X 1/2" LONG GALVANIZED THREADED ROD WELDED TO FRAME AT 45 DEG. ANGLE AT 4 CORNERS
 - 1/2" DIA GALVANIZED STEEL ROD LIFTING HANDLE BAR THROUGH HOLES WITH WELDED NUT AT ENDS. NUT SIZE SHALL BE LARGER THAN THROUGH HOLES.
 - FLOW SENSOR DEVICE. REFER TO PLAN ME FOR MATERIAL AND ATTACHMENT
 - PULLBOX PER PLAN EE
 - 6" DIA SCH 80 PVC PIPE PER PLAN DR
 - V-SHAPE CUT OUT WEIR
 - WIDTH OF EXCAVATION PER MANUFACTURER'S SPECIFICATIONS. BACKFILL SHALL BE 90% RELATIVE COMPACTION
 - LAYOUT OF STRUCTURAL CELL MODULE SYSTEM VARIES. SEE SHEET 5 ON PLAN DR FOR LAYOUT AND LOCATION
 - EXISTING GAS LINE AT EAST SIDE OF NORTHSIDE DR. CONTRACTOR SHALL CONFIRM LOCATION IN THE FIELD FOR DEPTH AND HORIZONTAL ALIGNMENT.



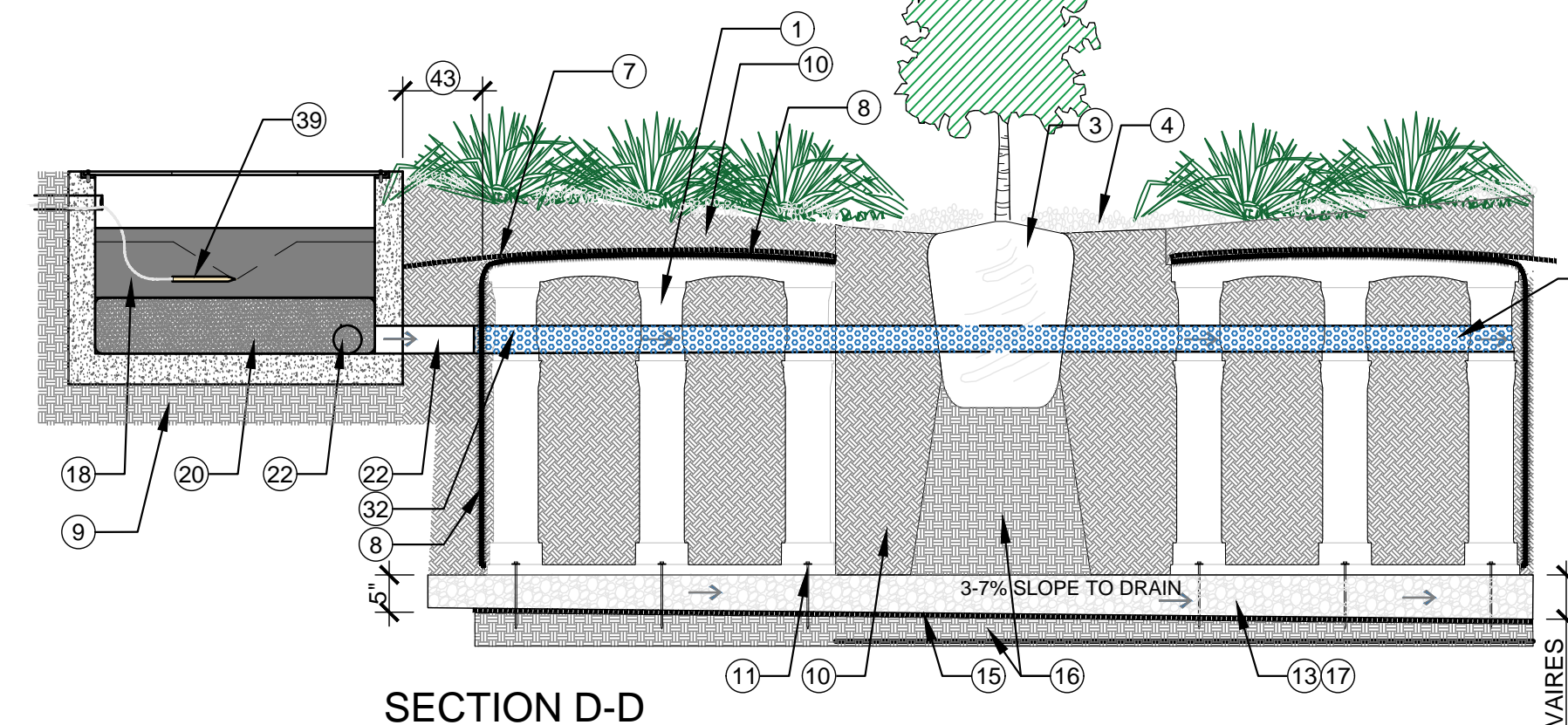
PLAN VIEW



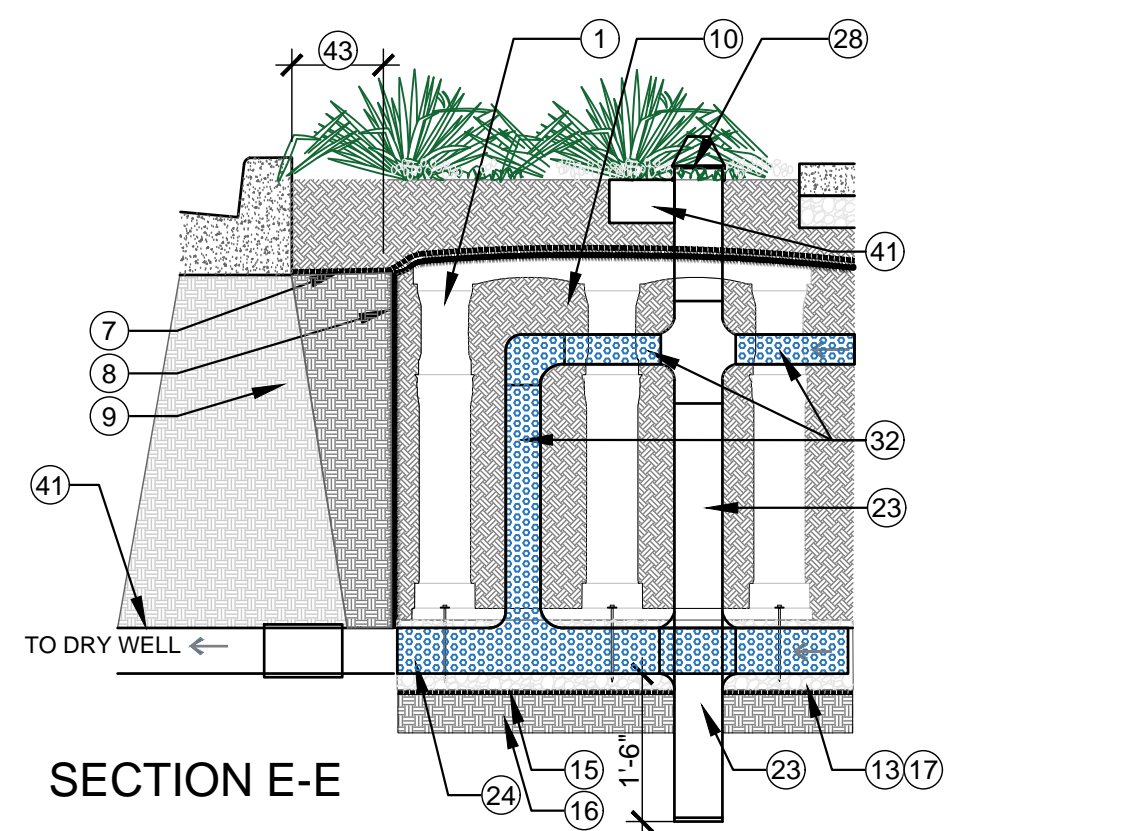
BAFFLE PLATE ENLARGEMENT



SECTION C-C



SECTION D-D



SECTION E-E

- NOTES**
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
 - MONITORING EQUIPMENT CHEST AND ITS APPURTENANCES ARE ONLY TO BE INSTALLED FOR THE #1 TREATMENT SYSTEM LOCATED AT NORTHEAST CORNER (EASTON ST. AND NORTHSIDE DR. (EAST))
 - AT LOCATIONS WHERE THERE IS NO MONITORING EQUIPMENTS, INSTALL MODULAR UNIT IN ITS PLACE.

MEDIA MATRIX

TREATMENT SYSTEM #1 (NORTHEAST CORNER)	TREATMENT SYSTEM #2 (NORTHWEST CORNER)	TREATMENT SYSTEM #3 (SOUTHEAST CORNER)	TREATMENT SYSTEM #4 (SOUTHWEST CORNER)
100% SAND CARTRIDGE	100% SAND CARTRIDGE	100% SAND CARTRIDGE	100% SAND CARTRIDGE
10% BIOCHAR / 90% SAND CARTRIDGE	20% BIOCHAR / 80% SAND CARTRIDGE	30% BIOCHAR / 70% SAND CARTRIDGE	40% BIOCHAR / 60% SAND CARTRIDGE
40% BIOCHAR / 60% CLASS D SOIL IN STRUCTURAL CELL MODULE SYSTEM	30% BIOCHAR / 70% CLASS D SOIL IN STRUCTURAL CELL MODULE SYSTEM	20% BIOCHAR / 80% CLASS D SOIL IN STRUCTURAL CELL MODULE SYSTEM	10% BIOCHAR / 90% CLASS D SOIL IN STRUCTURAL CELL MODULE SYSTEM

CALL 8-1-1 TOLL FREE

TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		

PROJECT LANDSCAPE ARCHITECT DATE

LOS ANGELES COUNTY PUBLIC WORKS

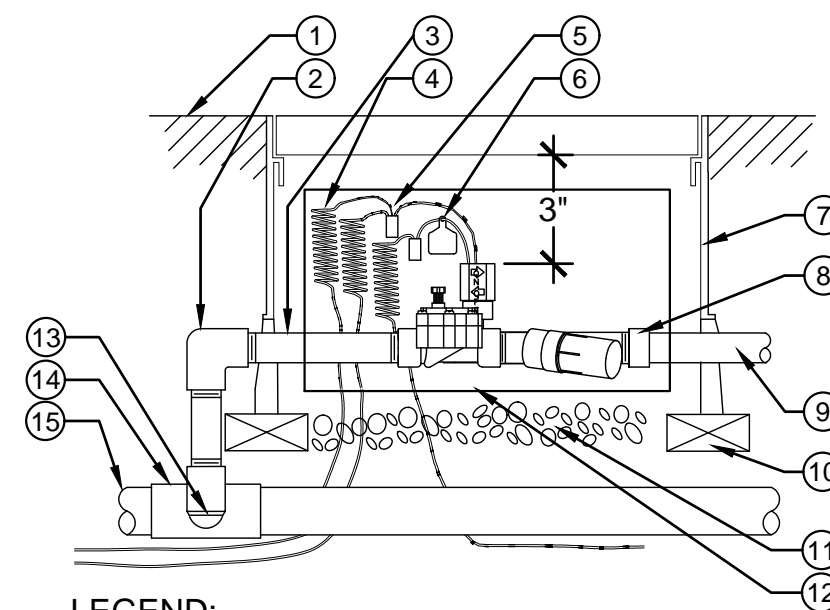
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

PROJECT ID NO. WMU0000010

STRUCTURAL CELL MODULE SYSTEM NORTHSIDE DR. AT EASTON ST.

LS-10.03

LACFCD INDEX NO. 116-D27 PCA SHEET 22 OF 27



LEGEND:

- 1 FINISH GRADE/ FINISH SURFACE PER PLAN, REFER TO SPECIAL PROVISIONS FOR REQUIRED ELEVATION DIFFERENCE OF TOP OF VALVE BOX TO ADJACENT FINISH GRADE/SURFACE.
- 2 PVC SCH 40 ELL.
- 3 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED, 1 OF 2).
- 4 30" LINEAR LENGTH OF WIRE, COILED.
- 5 WATERPROOF CONNECTION (1 OF 2).
- 6 I.D. TAG.
- 7 VALVE BOX. REFER TO NOTES BELOW.
- 8 PVC SCH 40 FEMALE ADAPTER.
- 9 LATERAL PIPE.
- 10 BRICK (1 OF 4).
- 11 3/4" DIA. CRUSHED ROCK 3" DEEP (SEE SSPWC SECTION 200-1.2.1)
- 12 CONTROL ZONE KIT.
- 13 PVC SCH 80 NIPPLE (2" LENGTH HIDDEN) AND PVC SCH 40 ELL.
- 14 PVC SCH 40 TEE OR ELL.
- 15 PVC MAINLINE.

NOTES:

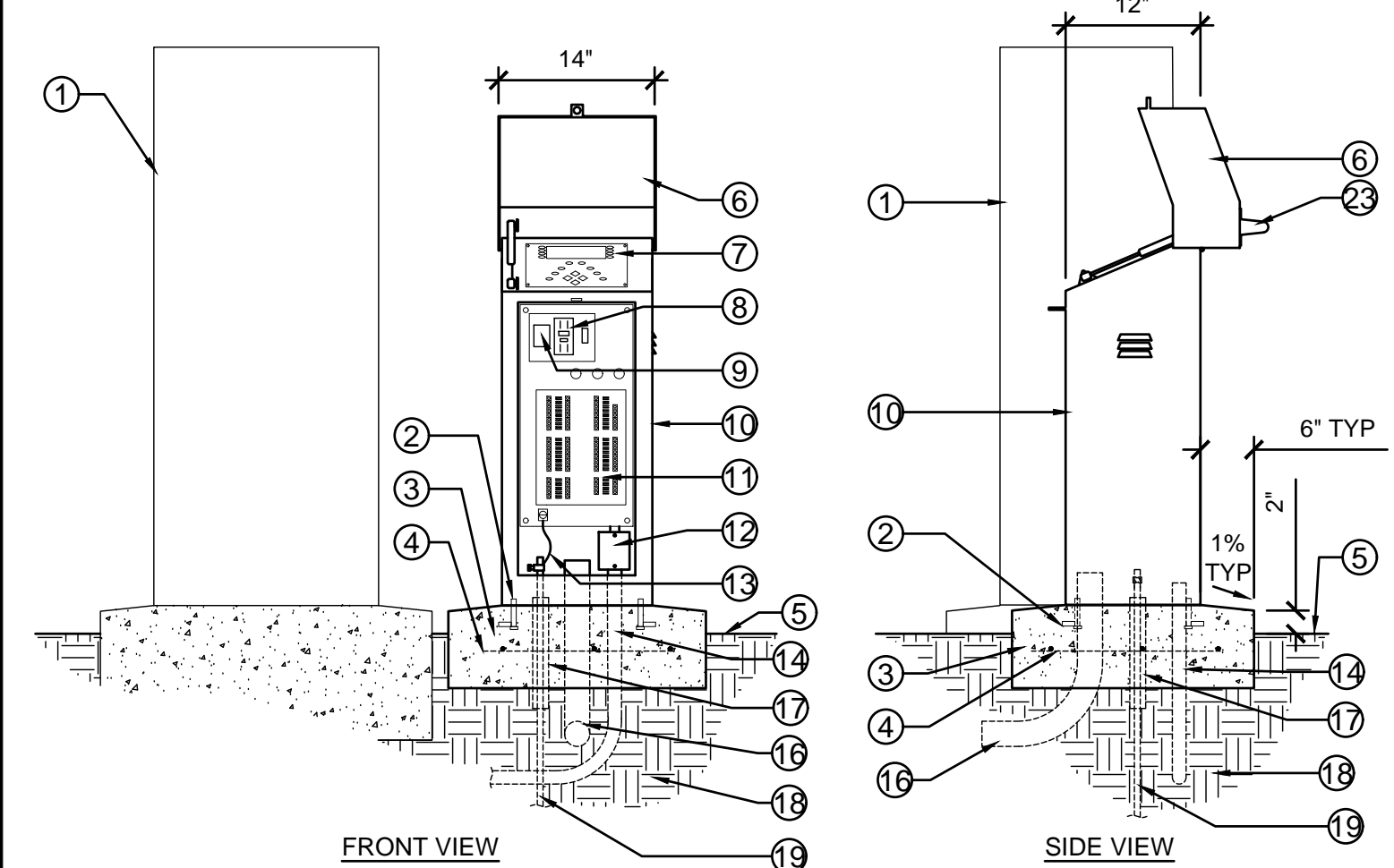
1. VALVE BOXES SHALL BE CONCRETE WITH CAST IRON, HINGED, LOCKING LID COVER BY BROOKS PRODUCTS, 36-HFL, (OR APPROVED EQUAL).
2. VALVE BOXES FOR 1" VALVES INSTALL AS SHOWN IN ABOVE DETAIL.
3. VALVE BOXES FOR 1.5" VALVES, INSTALL AS SHOWN IN ABOVE DETAIL WITH THE FOLLOWING MODIFICATIONS:
 - 3.1 INSTALL ONLY ONE VALVE ALONE IN A SEPARATE VALVE BOX.
 - 3.2 INSTALL THE PRESSURE REGULATING ASSEMBLY ALONE IN A SEPARATE AND ADJACENT VALVE BOX, USE STREET FITTINGS TO MAXIMIZE CLEARANCE WITHIN VALVE BOX.

LEGEND

- 1 EXISTING ELECTRIC METER.
- 2 MOUNTING BOLTS. BOLTS AND TEMPLATE SUPPLIED BY MANUFACTURER.
- 3 CONCRETE BASE 26" X 24" X 8" DEEP.
- 4 #4 REBAR @ 12" O.C. BOTH WAYS, CENTERED IN SLAB
- 5 FINISH GRADE 2" BELOW TOP OF CONCRETE FOUNDATION (560-C-3250)
- 6 FLIP TOP IN OPEN POSITION
- 7 CONTROLLER PANEL MOUNTED FLUSH ON FACE OF ENCLOSURE
- 8 GFI OUTLET & SWITCH
- 9 CALSENSE TP-1 SURGE ARRESTER
- 10 CONTROLLER & ENCLOSURE, CALSENSE MODEL SSE (SSE-R FOR ANTENNA OPTION) (OR APPROVED EQUAL)
- 11 CALSENSE TP-1 TRANSIENT PROTECTION BOARD
- 12 120 VAC JUNCTION BOX
- 13 #6 AWG GROUNDING WIRE CONNECTED TO GROUND LUG
- 14 SCH 40 ELECTRICAL SWEEP ELL FOR 120 VAC POWER
- 15 OMIT
- 16 3" DIA. SCH 40 ELECTRICAL SWEEP ELL FOR LOW VOLTAGE CONTROL WIRES
- 17 PVC SLEEVE FOR GROUNDING ROD
- 18 COMPACTED SUBGRADE
- 19 3/4" DIA. X 10' LONG COPPER CLAD STEEL GROUNDING ROD
- 20 NOT USED
- 21 1-#8 BARE COPPER GROUND WIRE, PROVIDE CONNECTION AS REQUIRED
- 22 NOT USED
- 23 DOME ANTENNA

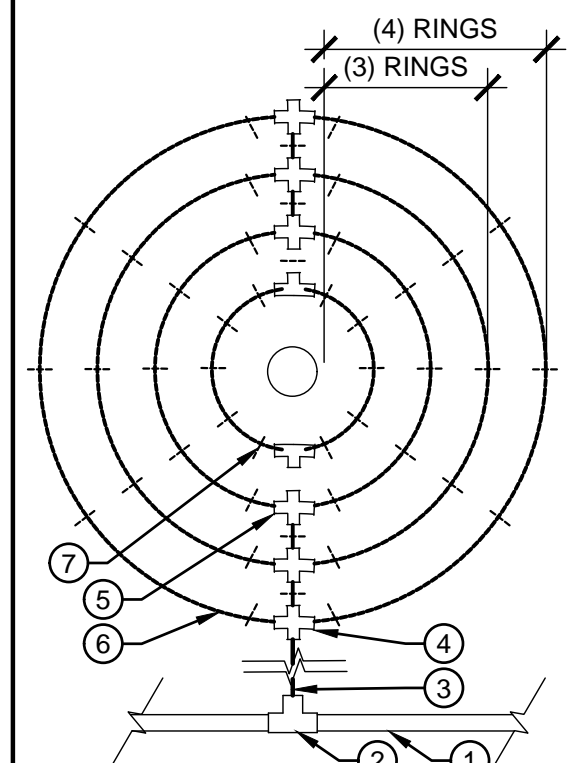
NOTES:

- A. THE FINAL LOCATION / ORIENTATION OF THE ELECT. METER/IRR. CONTROL PEDESTAL SHALL BE DETERMINED BY SOUTHERN CALIFORNIA EDISON
- B. ENCLOSURE MUST COMPLY WITH EUSERC 308.
- C. REFER TO PLAN EE.



(H) REMOTE CONTROL DRIP VALVE NTS

(F) CONTROLLER PEDESTAL NTS

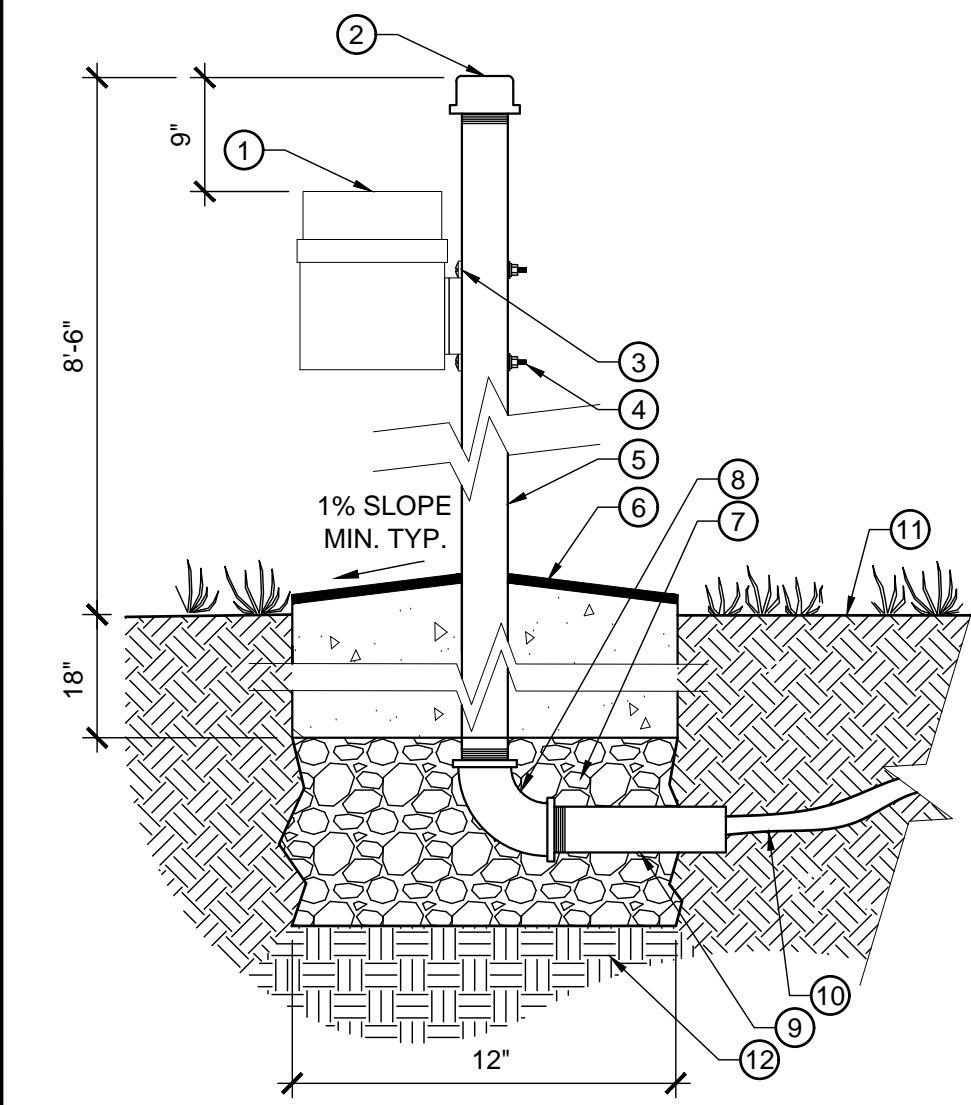


LEGEND:

- 1 PVC DRIP MANIFOLD PIPE
- 2 PVC SCH 40 TEE OR ELL
- 3 BLANK TUBING, RAINBIRD XF SERIES 1/2" POLYETHYLENE TUBING
- 4 BARB CROSS INSERT FITTING: RAIN BIRD XFD-CROSS, SEE NOTES BELOW.
- 5 BARB TEE INSERT FITTING: RAIN BIRD XFF-TEE, SEE NOTES BELOW.
- 6 TREE DRIPLINE. DRIPLINE PER IRRIGATION LEGEND, SEE NOTES BELOW.
- 7 DRIPLINE STAKES, SEE NOTES BELOW.

NOTES:

1. QUANTITY OF DRIPLINE CONCENTRIC RINGS PER PLAN AND SPACED PER IRRIGATION INSTALLATION NOTES.
2. ALL FITTINGS LISTED SHALL BE RAINBIRD XF DRIPLINE, REFER TO IRRIGATION INSTALLATION NOTES.
3. INSTALL STAKES AS SHOWN AND PER IRRIGATION INSTALLATION NOTES.
4. NEW TREES SHALL HAVE 3 CONCENTRIC RINGS. EXISTING TREES SHALL HAVE 4 CONCENTRIC RINGS. INSTALL DRIPLINE ONSURFACE (NOT SUBSURFACE AND BELOW FINISH GRADE) WHERE CONFLICTS OCCUR WITH EXISTING ROOTS. DRIPLINE THAT IS INSTALLED ONSURFACE AROUND EXISTING TREE ROOTS SHALL MINIMIZE VISIBILITY AND BE COVERED WITH MULCH.
5. TREES IN PARKWAY AREA WITH NARROW PLANTING STRIP, CONTRACTOR SHALL HAVE RECTANGLE LAYOUT TO ACCOMMODATE THE PLANTING AREA.



LEGEND

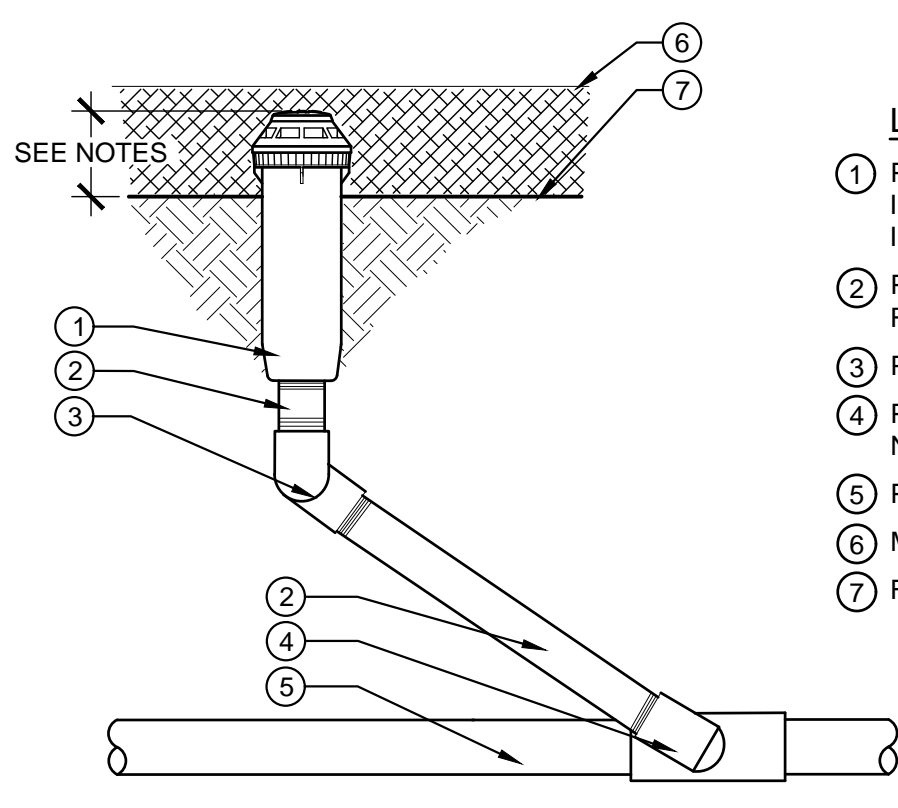
- 1 RAIN SENSOR PER LEGEND.
- 2 1.5" PIPE CAP.
- 3 DRILL TWO 3/16 HOLES IN PIPE FOR SENSOR BRACKET.
- 4 (2) #8-32 MACHINE SCREWS WITH WASHER, LOCK WASHER WITH NUT.
- 5 3" GALVANIZED STANDARD PIPE 10 FEET LENGTH.
- 6 12" DIAMETER BY 18" MINIMUM DEEP CONCRETE FOOTING (560-C-3250). TOP OF FOOTING SHALL BE 2" ABOVE ADJACENT GRADE.
- 7 3/4" DIA. CRUSHED ROCK 12" DEEP (SEE SSPWC SECTION 200-1.2.1)
- 8 1.5" PIPE ELBOW.
- 9 1.5" PIPE.
- 10 TO CONTROLLER.
- 11 FINISH GRADE.
- 12 COMPACTED SUBGRADE.

NOTES:

LOCATE RAIN SENSOR ADJACENT TO CONTROLLER THAT IT SERVES. CONTRACTOR SHALL OBTAIN APPROVAL PRIOR TO INSTALLATION.

(I) TREE DRIPLINE NTS

(G) RAIN SENSOR NTS



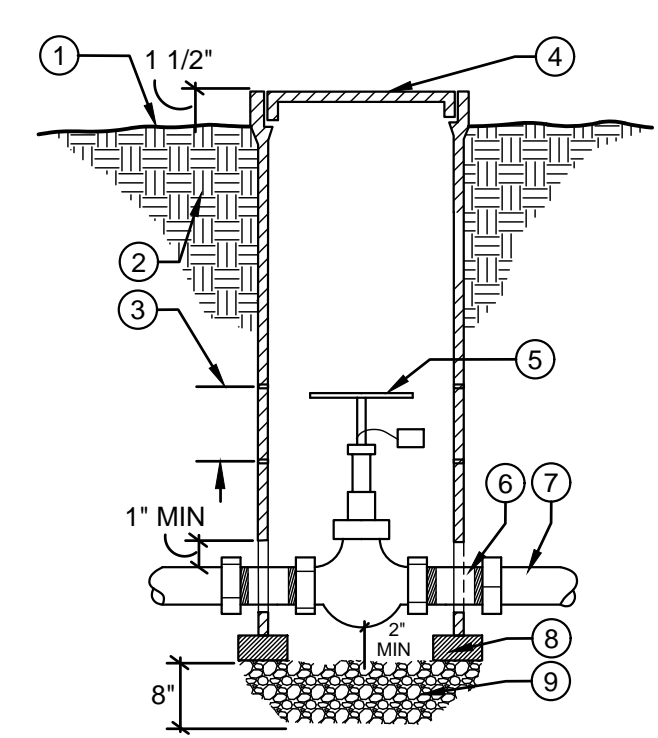
LEGEND:

- 1 POP-UP INDICATOR HEAD WITH IRRIGATION DRIP FLUSH NOZZLE PER IRRIGATION LEGEND.
- 2 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED).
- 3 PVC SCH 80 ELL.
- 4 PVC SCH 80 RISER ASSEMBLY (SEE NOTES BELOW).
- 5 PVC LATERAL PIPE.
- 6 MULCH, WHERE OCCURS.
- 7 FINISH GRADE.

NOTES:

1. IRRIGATION HEADS HAVE DOUBLE SWING RISER ASSEMBLIES.
2. INSTALL POP-UP INDICATOR HEAD 1/2" ABOVE FINISHED GRADE
3. POP-UP INDICATOR NOZZLE TO REMAIN IN THE CLOSED POSITION DURING SYSTEM OPERATION AND OPENED FOR SYSTEM FLUSHING. DIRECT FLUSH STREAM INTO PLANTER.

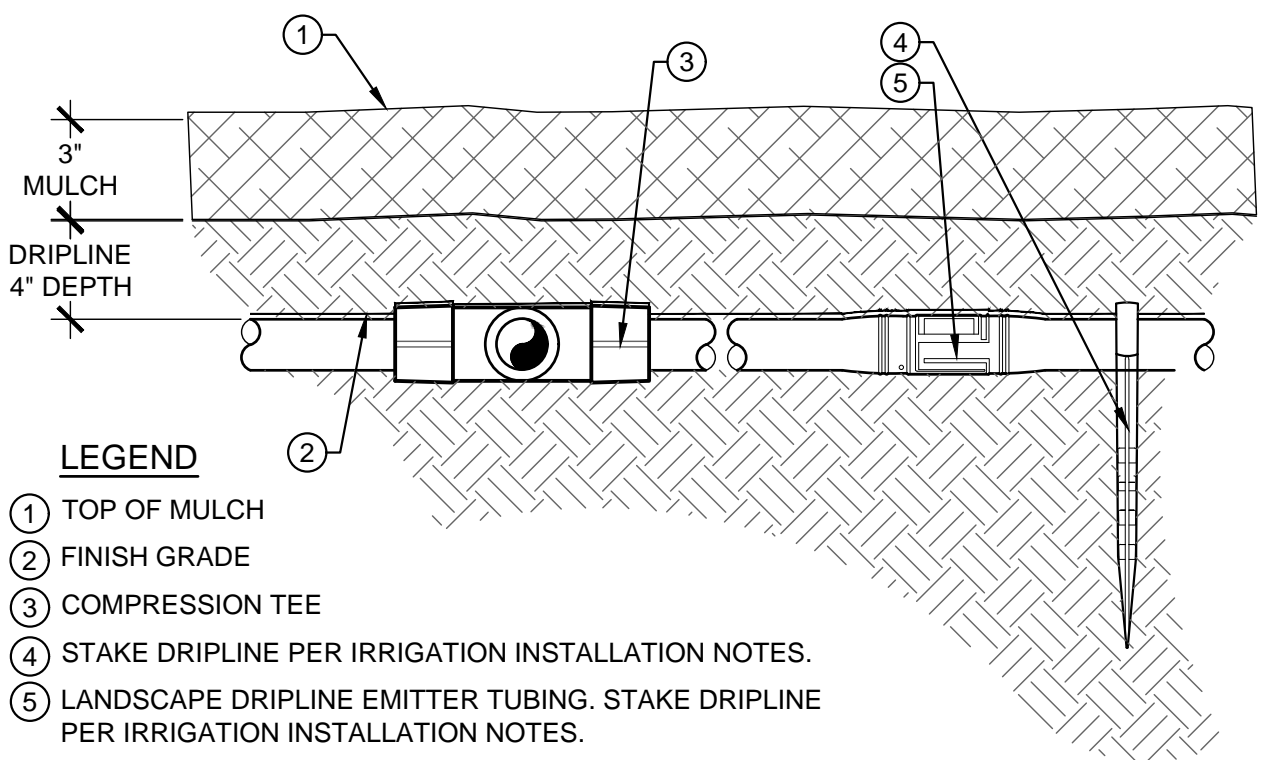
(C) POP-UP INDICATOR NTS



LEGEND:

- 1 FINISH GRADE/ FINISH SURFACE PER PLAN, REFER TO SPECIAL PROVISIONS FOR REQUIRED ELEVATION DIFFERENCE OF TOP OF VALVE BOX TO ADJACENT FINISH GRADE/SURFACE.
- 2 COMPACTED SUBGRADE.
- 3 BREAK-OFF GROVES 3 PLACES -4" (TYP.).
- 4 VALVE BOX.
- 5 GATE VALVE W/HANDWHEEL LINE SIZE.
- 6 SCH. 80 P.V.C. NIPPLES, (TYP.).
- 7 PVC MAINLINE
- 8 COMMON RED BRICK, ONE AT EACH CORNER (4 REQUIRED).
- 9 3/4" DIA. CRUSHED ROCK 8" DEEP (SEE SSPWC SECTION 200-1.2.1)

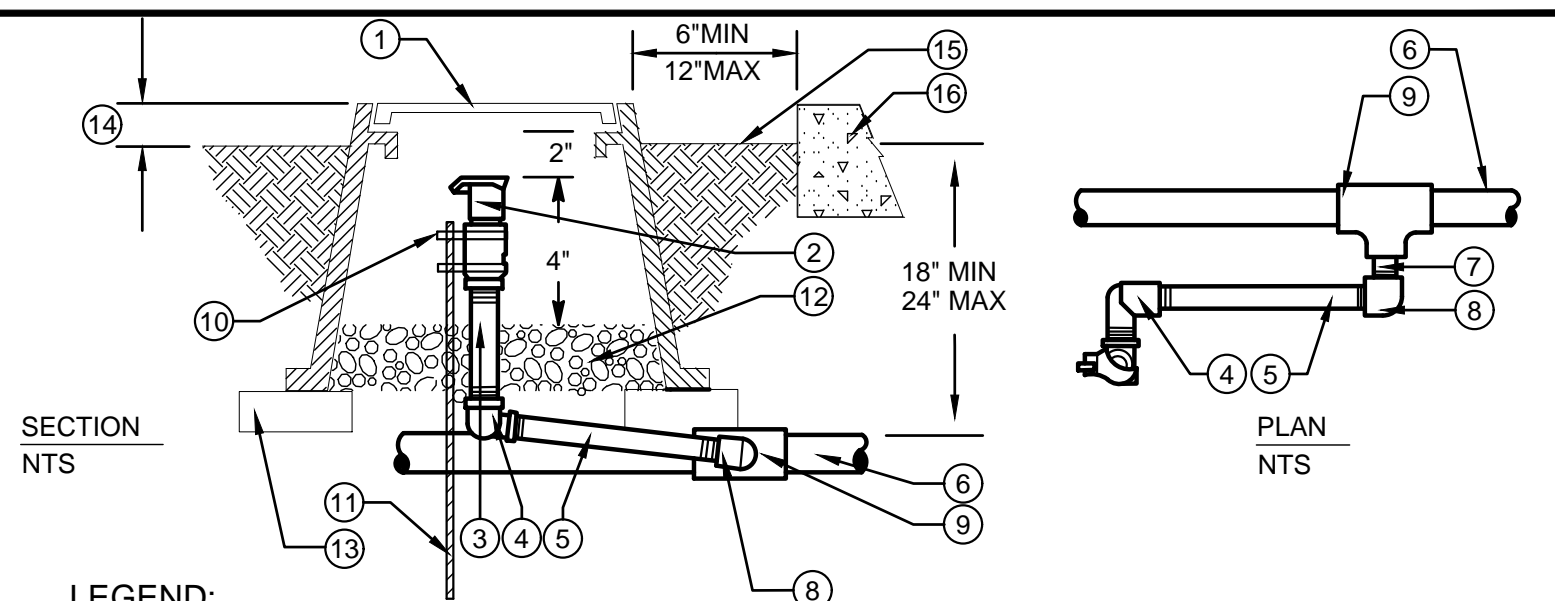
(A) GATE VALVE NTS



LEGEND

- 1 TOP OF MULCH
- 2 FINISH GRADE
- 3 COMPRESSION TEE
- 4 STAKE DRIPLINE PER IRRIGATION INSTALLATION NOTES.
- 5 LANDSCAPE DRIPLINE EMITTER TUBING, STAKE DRIPLINE PER IRRIGATION INSTALLATION NOTES.

(D) IN-LINE EMITTER DRIP LINE NTS



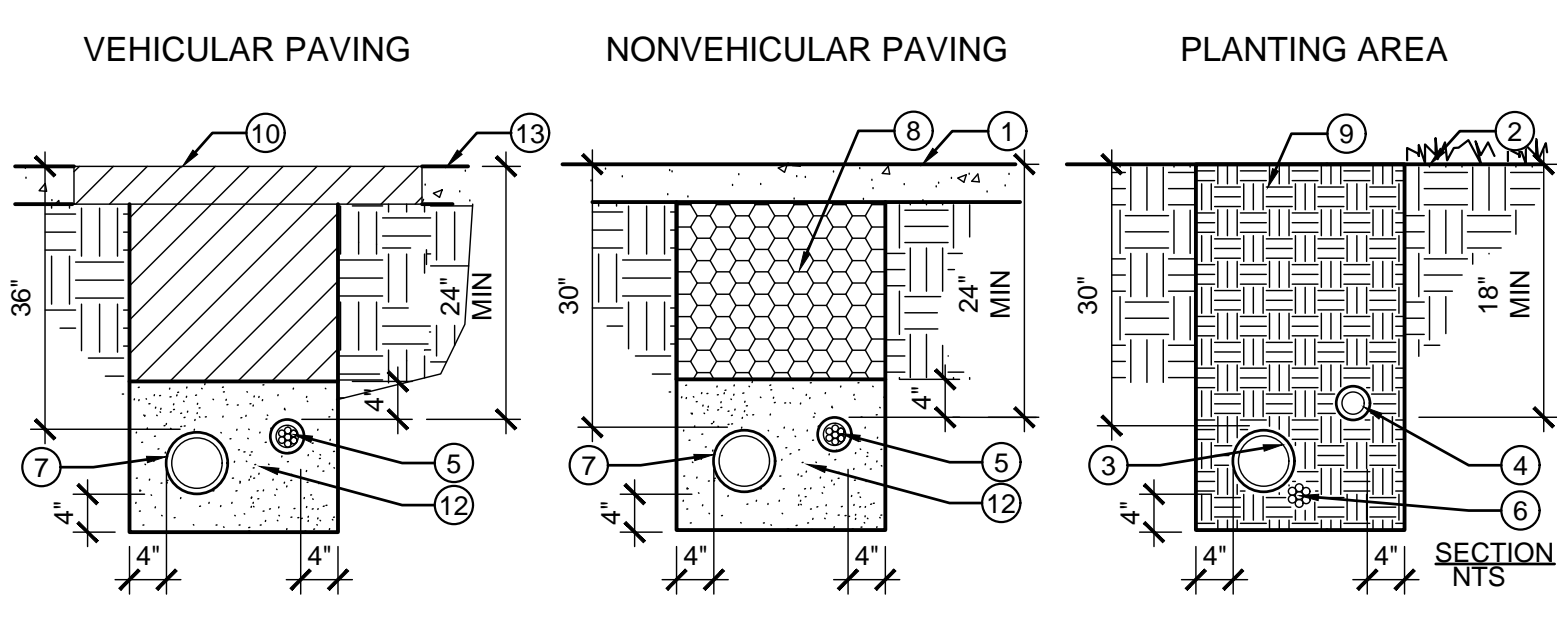
LEGEND:

- 1 VALVE BOX.
- 2 3/4" QUICK COUPLING VALVE.
- 3 SCHEDULE 80 PVC - LENGTH AS REQUIRED.
- 4 SCHEDULE 80 PVC THREADED ELBOW.
- 5 SCHEDULE 80 NIPPLE - 6" MINIMUM, 12" MAXIMUM LENGTH.
- 6 PVC MAINLINE PIPING.
- 7 PVC SCHEDULE 80 T.O.E. (THREADED ON END NIPPLE - 2" LENGTH).
- 8 SCHEDULE 80 PVC THREADED ELBOW.
- 9 PVC SCHEDULE 40 SLIP TEE.
- 10 STAINLESS STEEL COMPRESSION CLAMP (2 REQUIRED).
- 11 #4 x 24" MINIMUM LENGTH REBAR STAKE. SECURE AT QUICK COUPLER BODY ONLY.
- 12 3/4" DIA. CRUSHED ROCK 8" DEEP (SEE SSPWC SECTION 200-1.2.1)
- 13 COMMON RED BRICK, ONE AT EACH CORNER (4 REQUIRED) (TYP.)
- 14 FINISH GRADE/ FINISH SURFACE PER PLAN, REFER TO SPECIAL PROVISIONS FOR REQUIRED ELEVATION DIFFERENCE OF TOP OF VALVE BOX TO ADJACENT FINISH GRADE/SURFACE.
- 15 FINISH GRADE.
- 16 CURB, WALK OR OTHER HARDSCAPE FEATURE.

NOTES:

1. VALVE BOX TO BE SET FLUSH NEXT TO CURB OR SIDEWALK.

(B) QUICK COUPLER NTS



(E) PIPE TRENCHING NTS

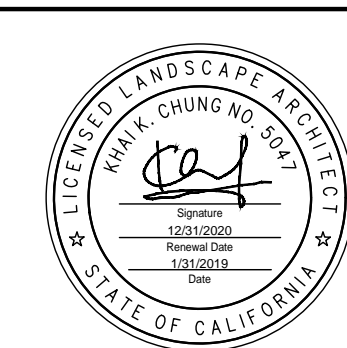
CALL 8-1-1 TOLL FREE	
811	
TWO WORKING DAYS BEFORE YOU DIG	
DATE	DESCRIPTION
MK	REVISIONS

LEGEND

- 1 PAVING.
- 2 FINISH GRADE.
- 3 PVC MAINLINE.
- 4 PVC LATERAL LINE.
- 5 CONTROL WIRES OR COM. CABLE IN CONDUIT.
- 6 CONTROL WIRES OR COM. CABLE.
- 7 SLEEVE FOR MAINLINE AND/OR LATERAL LINE.
- 8 CMB
- 9 SOIL, PER SPECIAL PROVISIONS
- 10 REFER TO PLAN DR.
- 11 NOT USED
- 12 SAND
- 13 EXISTING AC OR CONCRETE PAVEMENT

NOTES:

1. TAPE AND BUNDLE 24 V. WIRES @ 10' INTERVALS.
2. MINIMUM DEPTH OF 24 V. WIRING SHALL BE 24" BELOW GRADE.
3. TRENCH WIDTH ALLOW 4" MIN. CLEARANCE BETWEEN PARALLEL PIPES.
4. SNAKE PIPES FROM SIDE TO SIDE WITHIN TRENCH TO ALLOW FOR MOVEMENT.
5. TIE A 20" LOOP IN ALL WIRING AT CHANGES OF DIRECTION. UNTIE PRIOR TO BACKFILLING TRENCHES.
6. PROVIDE THRUST BLOCKS PER APWA STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION DETAIL 508-1, EXCEPT THAT THRUST BLOCKS SHALL BE PROVIDED FOR ALL PIPES 2" AND LARGER.



LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU000010

IRRIGATION DETAILS

LS-11.01

Controller G

IRRIGATION CONTROLLER RUN TIMES

IRRIGATION SCHEDULE (Peak Summer Schedule)
PROJECT NAME: East L.A. Medians - Sustainable Median Stormwater Capture
PROJECT LOCATION: County of Los Angeles, Montebello
TOTAL LANDSCAPE AREA: 89,457 sq.ft.
Eto: (Los Angeles)

Table with 12 columns: Jan, Feb, Mar, Apr, May, June, July, Aug, Sept, Oct, Nov, Dec, Annual. Values range from 2.2 to 50.1.

IRRIGATION SCHEDULE FOR SUMMER (JULY): Table with 15 columns: valve no., valve size, flow (GPM), irr. effcy. (IE), irr. type, area (sq.ft.), plant type, precip rate (in/min.), plant factor (PF), daily runtime (min.), nos. of cycles per day, individ. runtimes (min.), frequency per month, monthly runtime (min.), total ETWU Gallons. Includes a summary row for Total Runtime per day (7.0 Hours) and Total Monthly ETWU (63649.2).

IRRIGATION CONTROLLER RUN TIMES

Controller I

IRRIGATION SCHEDULE (Peak Summer Schedule)
PROJECT NAME: East L.A. Medians - Sustainable Median Stormwater Capture
PROJECT LOCATION: County of Los Angeles, Montebello
TOTAL LANDSCAPE AREA: 25,450 sq.ft.
Eto: (Los Angeles)

Table with 12 columns: Jan, Feb, Mar, Apr, May, June, July, Aug, Sept, Oct, Nov, Dec, Annual. Values range from 2.2 to 50.1.

IRRIGATION SCHEDULE FOR SUMMER (JULY): Table with 15 columns: valve no., valve size, flow (GPM), irr. effcy. (IE), irr. type, area (sq.ft.), plant type, precip rate (in/min.), plant factor (PF), daily runtime (min.), nos. of cycles per day, individ. runtimes (min.), frequency per month, monthly runtime (min.), total ETWU Gallons. Includes a summary row for Total Runtime per day (4.5 Hours) and Total Monthly ETWU (35682.0).

IRRIGATION CONTROLLER RUN TIMES

Controller B

IRRIGATION SCHEDULE (Peak Summer Schedule)
PROJECT NAME: East L.A. Medians - Sustainable Median Stormwater Capture
PROJECT LOCATION: County of Los Angeles, Montebello
TOTAL LANDSCAPE AREA: 1,698 sq.ft.
Eto: (Los Angeles)

Table with 12 columns: Jan, Feb, Mar, Apr, May, June, July, Aug, Sept, Oct, Nov, Dec, Annual. Values range from 2.2 to 50.1.

IRRIGATION SCHEDULE FOR SUMMER (JULY): Table with 15 columns: valve no., valve size, flow (GPM), irr. effcy. (IE), irr. type, area (sq.ft.), plant type, precip rate (in/min.), plant factor (PF), daily runtime (min.), nos. of cycles per day, individ. runtimes (min.), frequency per month, monthly runtime (min.), total ETWU Gallons. Includes a summary row for Total Runtime per day (0.4 Hours) and Total Monthly ETWU (2599.7).

D HYDRO CALCS

Controller H

IRRIGATION CONTROLLER RUN TIMES

IRRIGATION SCHEDULE (Peak Summer Schedule)
PROJECT NAME: East L.A. Medians - Sustainable Median Stormwater Capture
PROJECT LOCATION: County of Los Angeles, Montebello
TOTAL LANDSCAPE AREA: 77,039 sq.ft.
Eto: (Los Angeles)

Table with 12 columns: Jan, Feb, Mar, Apr, May, June, July, Aug, Sept, Oct, Nov, Dec, Annual. Values range from 2.2 to 50.1.

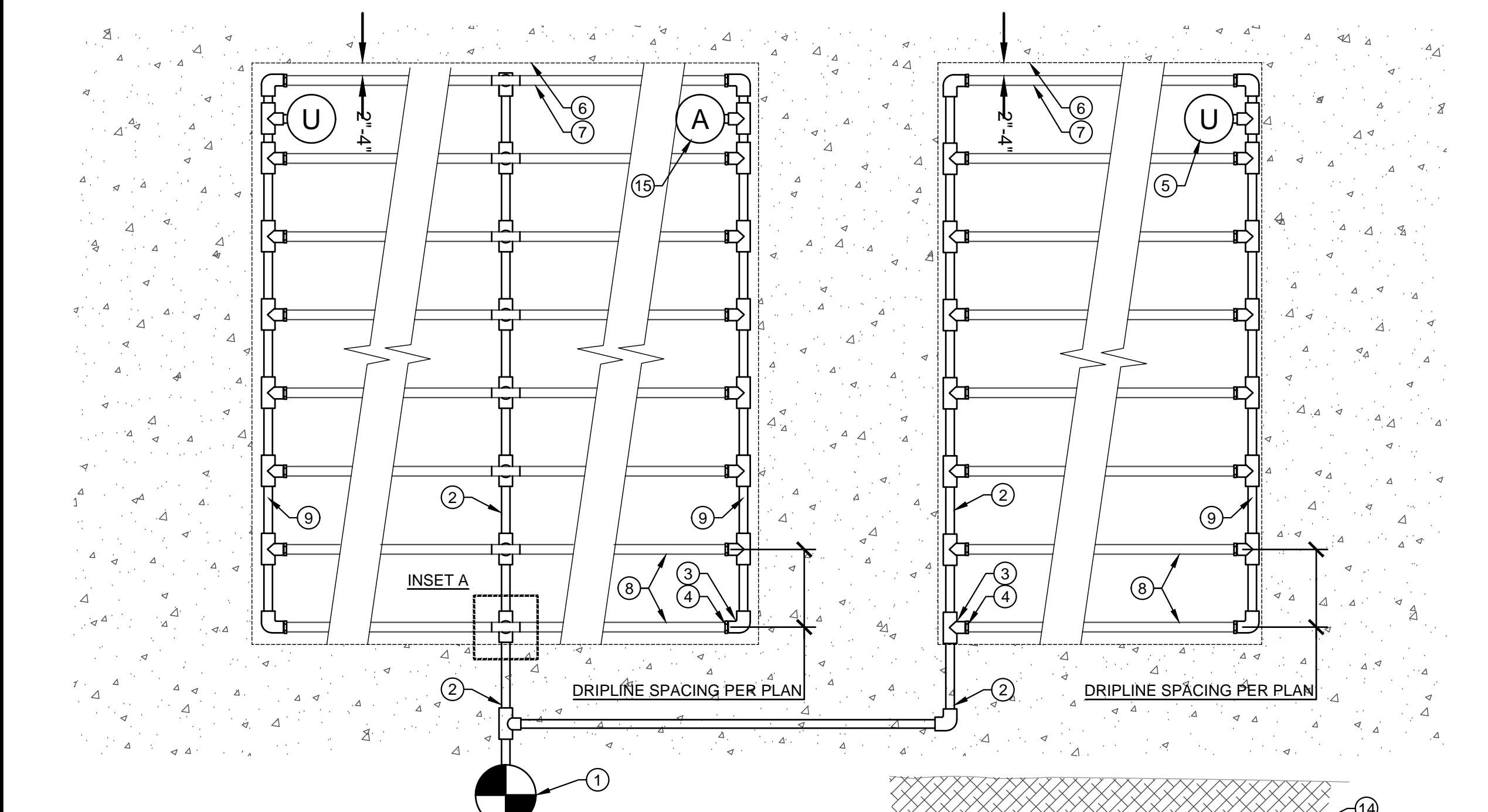
IRRIGATION SCHEDULE FOR SUMMER (JULY): Table with 15 columns: valve no., valve size, flow (GPM), irr. effcy. (IE), irr. type, area (sq.ft.), plant type, precip rate (in/min.), plant factor (PF), daily runtime (min.), nos. of cycles per day, individ. runtimes (min.), frequency per month, monthly runtime (min.), total ETWU Gallons. Includes a summary row for Total Runtime per day (7.4 Hours) and Total Monthly ETWU (77175.9).

WATER EFFICIENT LANDSCAPE WORKSHEET

Table with 7 columns: Hydrozone # / Planting Description, Plant Factor (PF), Irrigation Method, Irrigation Efficiency (IE), Project Type, Landscape Area (Sq. Ft.), Estimated Total Water Use (ETWU). Includes sub-sections for Regular Landscape Areas, Special Landscape Areas, and All Landscape Areas.

ETAF Calculations: Table with 4 columns: Regular Landscape Areas, Special Landscape Areas, All Landscape Areas, Average ETAF. Values include Total ETAF x Area (78294) and Average ETAF (0.40).

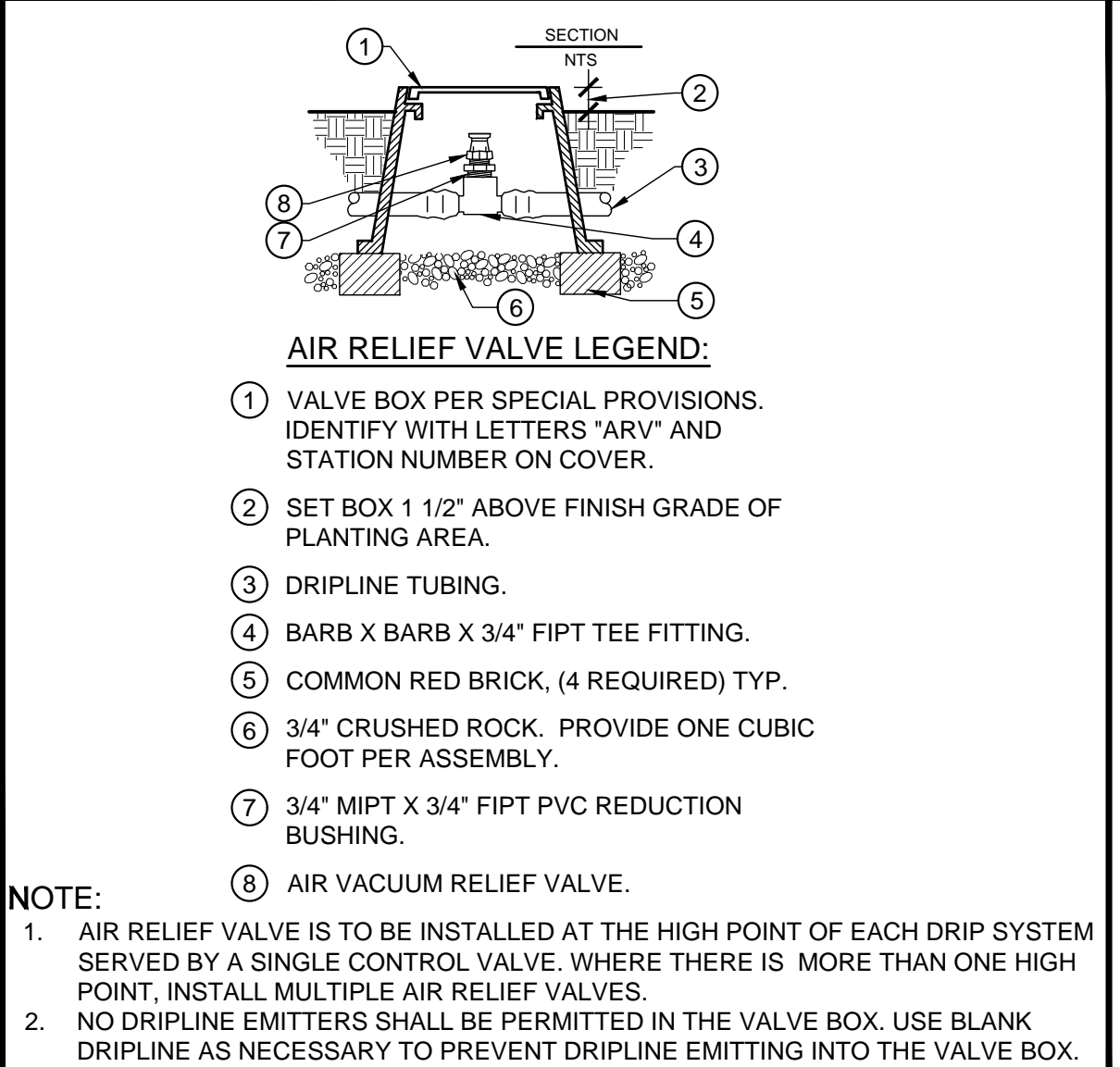
D HYDRO CALCS



- LEGEND: 1 DRIP CONTROL VALVE REFER TO LEGEND, 2 SUPPLY HEADER, SIZE PER PLAN, 3 PVC SCH 40 TEE OR ELL (TYPICAL), 4 BARB X MALE FITTING: RAIN BIRD XFF -MA FITTING (TYPICAL) OR APPROVED EQUAL, 5 POP-UP DRIP INDICATOR WITH MANUAL FLUSH NOZZLE, REFER TO IRRIGATION EMITTER LEGEND, 6 PERIMETER OF AREA TO BE IRRIGATED, 7 PERIMETER DRIPLINE, REFER TO IRRIGATION EMITTER LEGEND, 8 DRIPLINE, REFER TO IRRIGATION EMITTER LEGEND, 9 PVC EXHAUST HEADER(S), 10 PVC SCH 40 RISER PIPE, 11 GPH IRRIGATION PRODUCTS FLEXIBLE NIPPLE #GPPN050600 (OR APPROVED EQUAL), 1/2" FIPT X 6" LENGTH RISER, 12 DRIP FITTING MANIFOLD, 13 FINISH GRADE, 14 3" DEEP MULCH, 15 AIR RELIEF VALVE, REFER TO IRRIGATION EMITTER LEGEND.

- NOTES: 1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING PER MANUFACTURER'S RECOMMENDATIONS. 2. WHEN USING 17 MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, STAINLESS STEEL CLAMPS SHALL BE INSTALLED ON EACH FITTING. 3. DRIPLINE MANIFOLD DEPTH SHALL BE 7" MIN. 4. STAKE DRIPLINE PER IRRIGATION INSTALLATION NOTES.

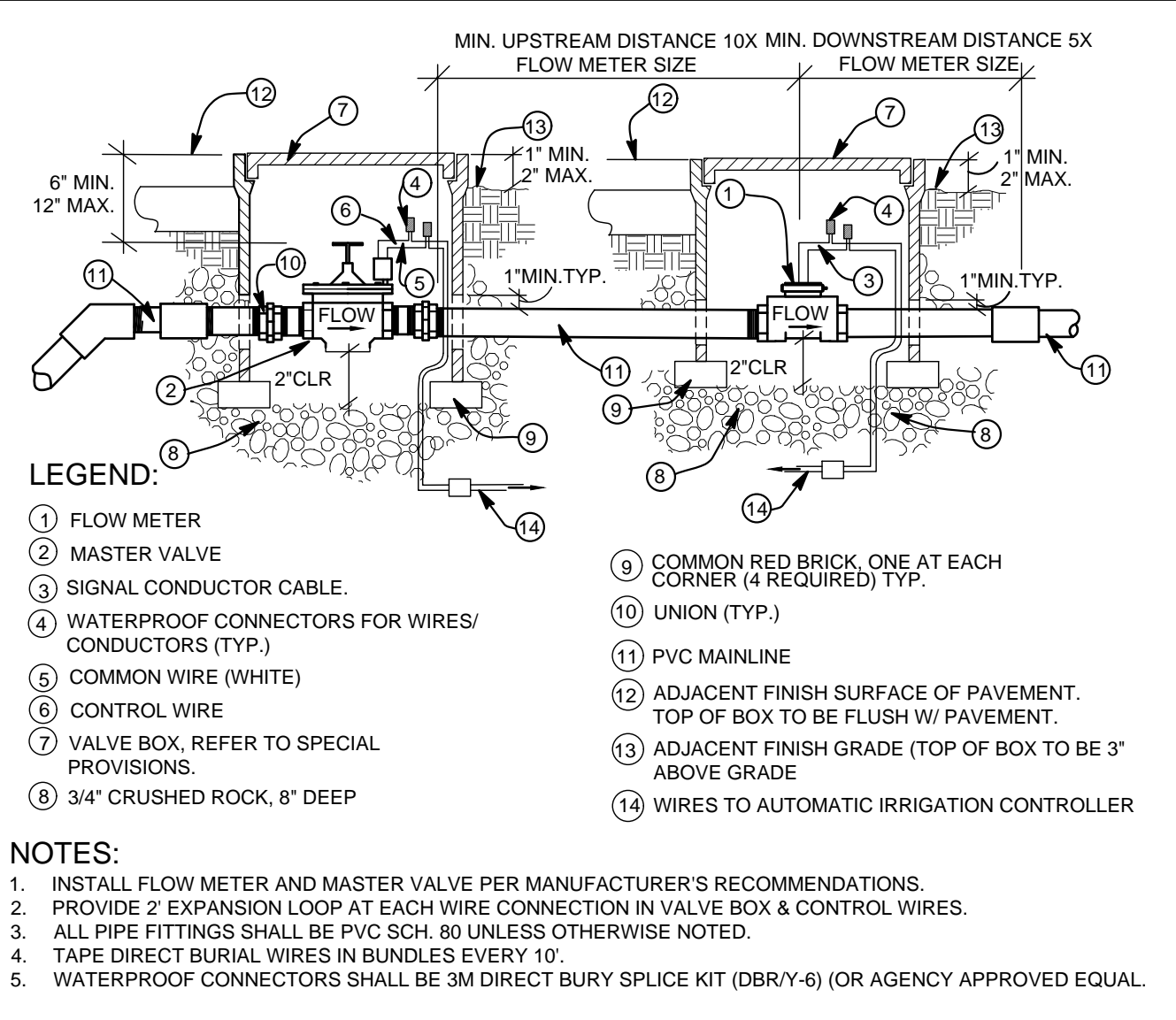
B DRIP LINE LAYOUT PLAN



- NOTES: 1. AIR RELIEF VALVE IS TO BE INSTALLED AT THE HIGH POINT OF EACH DRIP SYSTEM SERVED BY A SINGLE CONTROL VALVE. WHERE THERE IS MORE THAN ONE HIGH POINT, INSTALL MULTIPLE AIR RELIEF VALVES. 2. NO DRIPLINE EMITTERS SHALL BE PERMITTED IN THE VALVE BOX. USE BLANK DRIPLINE AS NECESSARY TO PREVENT DRIPLINE EMITTING INTO THE VALVE BOX.

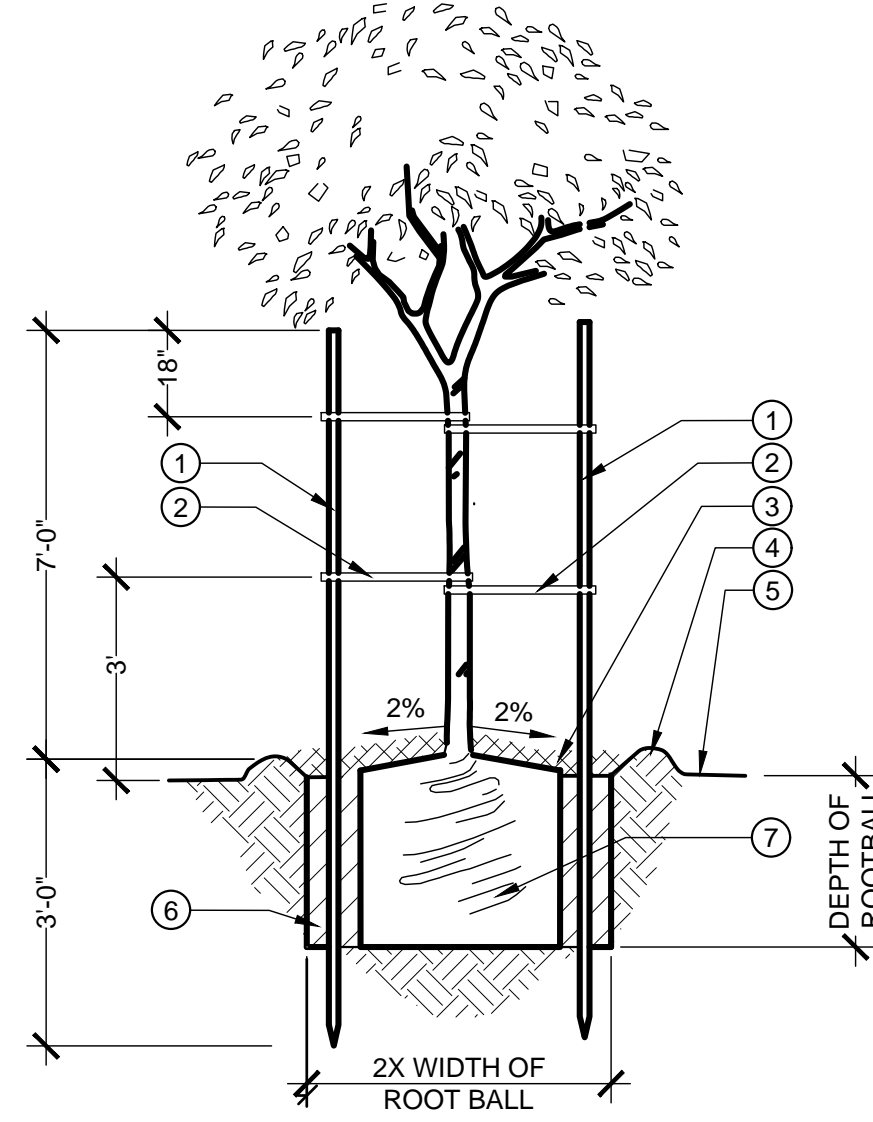
C AIR RELIEF VALVE

A FLOW METER AND MASTER VALVE



- NOTES: 1. INSTALL FLOW METER AND MASTER VALVE PER MANUFACTURER'S RECOMMENDATIONS. 2. PROVIDE 2" EXPANSION LOOP AT EACH WIRE CONNECTION IN VALVE BOX & CONTROL WIRES. 3. ALL PIPE FITTINGS SHALL BE PVC SCH. 80 UNLESS OTHERWISE NOTED. 4. TAPE DIRECT BURIAL WIRES IN BUNDLES EVERY 10'. 5. WATERPROOF CONNECTORS SHALL BE 3M DIRECT BURY SPLICE KIT (DBRY-6) (OR AGENCY APPROVED EQUAL).

Call 8-1-1 TOLL FREE, 811 logo, TWO WORKING DAYS BEFORE YOU DIG, PROJECT LANDSCAPE ARCHITECT, DATE, LACFCDD INDEX NO. 116-D27, PCA, SHEET 25 OF 27, LS-11.02, PLAN LS



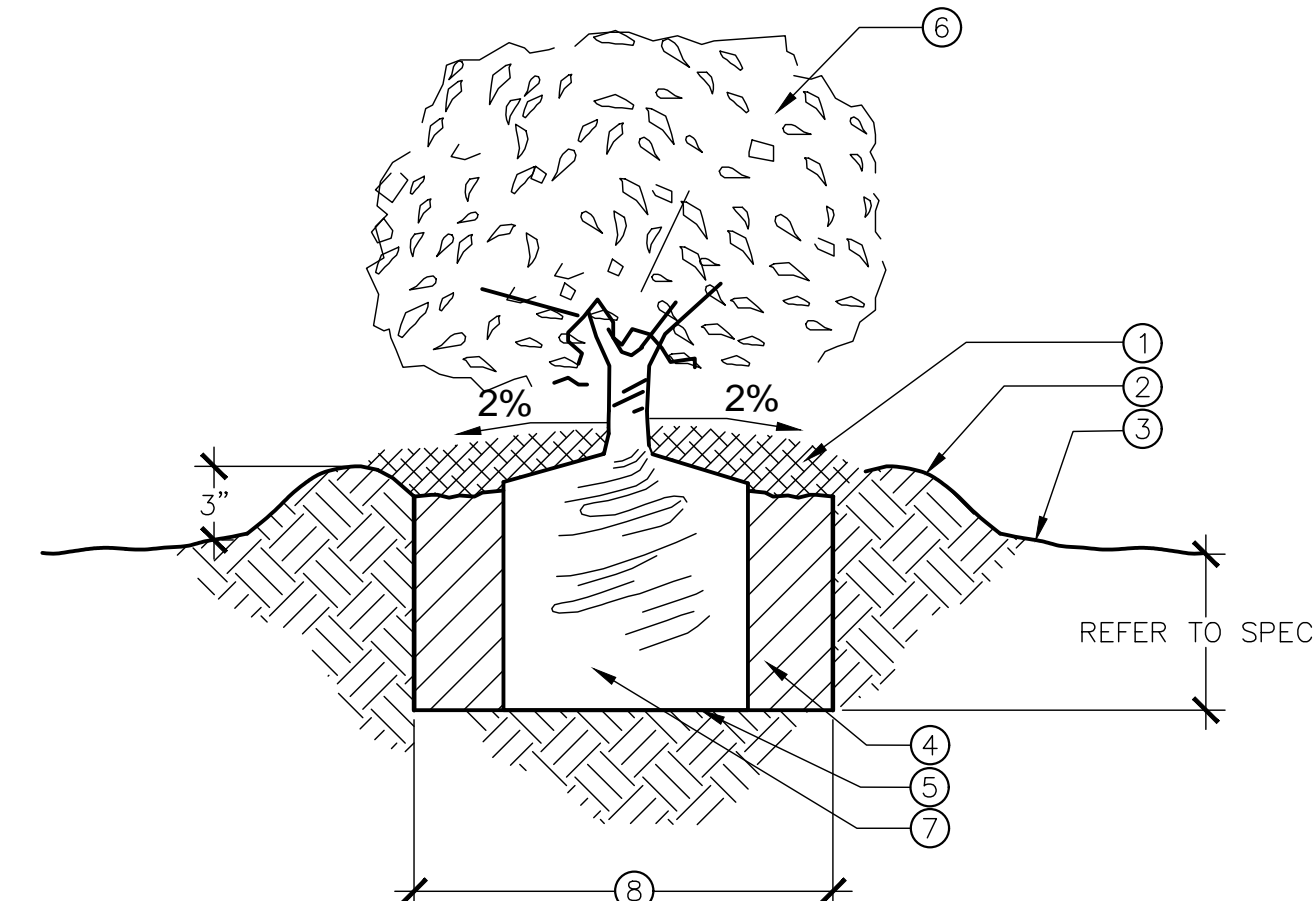
- LEGEND:**
- TWO (2) 10'-0" X 2" DIA. PRESSURE TREATED LODGEPOLE TREE STAKE (REFER TO SPECIAL PROVISIONS).
 - FASTEN TREE TO STAKES W/ TREE TIES BY SPECIAL PROVISIONS (TYP.) TWO (2) AT EACH STAKE.
 - BACKFILL WATER BASIN W/ 3" OF UNCOMPACTED MULCH. KEEP MULCH AWAY FROM CROWN.
 - FORM 3" HIGH BERM AROUND BASIN. (3'-0" DIA. FOR 15 GAL TREE, 4' DIA. FOR 24" BOX TREE) DO NOT FORM BERM IF PLANTED IN LAWN.
 - FINISH GRADE
 - BACKFILL MIX. REFER TO SPECIAL PROVISIONS.
 - ROOT BALL. SET TOP OF ROOT BALL 1' ABOVE FINISH GRADE
- NOTE:**
- AFTER TREE IS PLANTED, PRUNE AND SHAPE AS DIRECTED AND APPROVED BY ENGINEER
 - INSTALL TREE STAKES PERPENDICULAR TO THE PREVAILING WINDS

TREE LEGEND						
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	WUCOLS
	CER OCC	CERCIS OCCIDENTALIS	WESTERN REDBUD	15 GAL	48	L
	CHI TAS	CHITALPA TASHKENTENSIS	CHITALPA	15 GAL	16	L
	JAC MIM	JACARANDA MIMOSIFOLIA	JACARANDA	15 GAL	58	L
	LOP CON	LOPHOSTEMON CONFERTUS	BRISBANE BOX	15 GAL	84	M
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	15 GAL	39	M
	ULM PAR	ULMUS PARVIFOLIA	CHINESE ELM	15 GAL	55	L
		EXISTING TREE - PROTECT IN PLACE				

SHRUB AND GROUND COVER LEGEND								
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SETBACK*	O.C.	WUCOLS
	AGA ATT	AGAVE ATTENUATA	FOXTAIL AGAVE	5 GAL	94	3 FT.	6 FT.	VL
	ALO STR	ALOE STRIATA	CORAL ALOE	5 GAL	395	18"	3 FT.	VL
	BAC PIL	BACCHARIS PILULARIS	DWARF COYOTE BRUSH	1 GAL	772	3 FT.	6 FT.	L
	DIE IRI	DIETES IRIDIOIDES	AFRICAN IRIS	5 GAL	41	24"	4 FT	M
	DIA REV	DIANELLA REVOLUTA	FLAX LILY	5 GAL	568	15"	2 FT	L
	JUN PAT	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	224	12"	2 FT	L
	LAN NEW	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	5 GAL	1261	18"	3 FT.	L
	LAN SEL	LANTANA SELLOWIANA	TRAILING PURPLE LANTANA AND WHITE LIGHTING 50 / 50 MIX	5 GAL	470	12"	4.5 FT.	L
	LAV STO	LAVANDULA STOECHAS	SPANISH LAVENDER	5 GAL	237	18"	3 FT.	L
	LOM BRE	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	963	15"	2 FT.	L
	MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	2013	18"	3 FT.	L
	MYO PAR	MYOPORUM PARVIFOLIUM	CREEPING MYOPORUM	5 GAL	497	3 FT.	6 FT.	L
	SAL LEU	SALVIA LEUCOPHYLLA	PURPLE SAGE	5 GAL	487	30"	5 FT.	L
	SAL GRE	SALVIA GREGGII	AUTUMN SAGE	5 GAL	1551	27"	4.5 FT.	L
	MIX A	"MIX A": BIOFILTRATION SOD"; NASSELLA PULCHRA, HORDEUM CALIFORNICUM, HORDEUM BRACHYANTHERUM, FESTUCA RUBRA	"MIX A": PURPLE NEEDLEGRASS, CALIFORNIA BARLEY, MEADOW BARLEY, MOLATE FESCUE	SOD	15,768 SF	-	-	L
	MIX B	"MIX B": IRIS DOUGLASIANA; JUNCUS PATENS		1 GAL	1860	12"	18"	L
	MIX C	"MIX C": "NATIVE MOW FREE"; FESTUCA OCCIDENTALIS, FESTUCA IDAHOENSIS, FESTUCA RUBRA	"MIX C": WESTERN MOKELUMNE FESCUE, IDAHO FESCUE, MOLATE FESCUE	SOD	20,210 SF	-	-	L

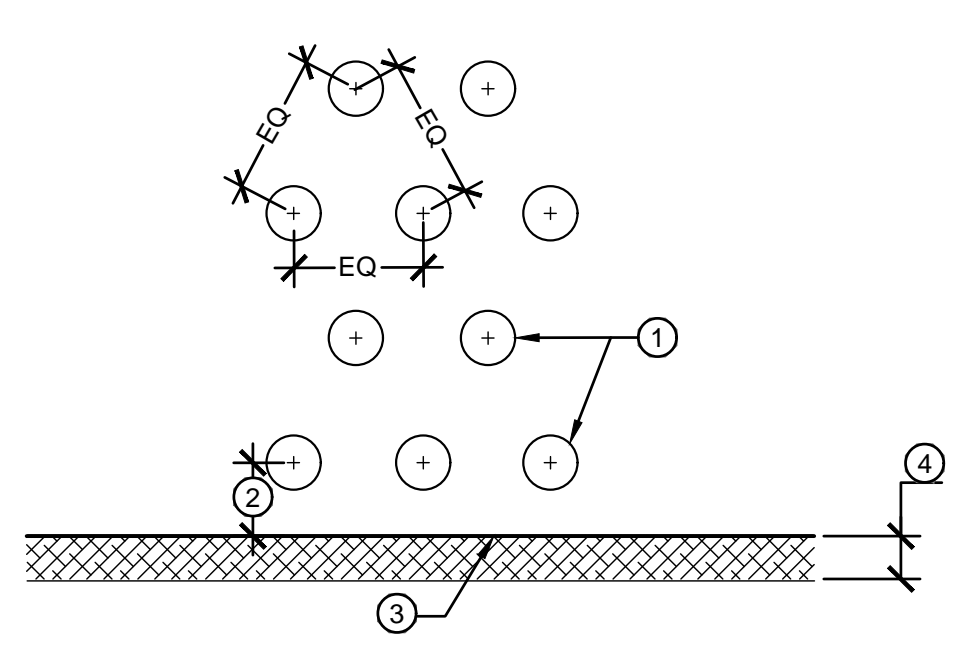
NOTE: 1. PLANT QUANTITY ON LEGEND REFLECTS OVERALL TOTAL QUANTITY FOR THE ENTIRE PROJECT.
2. SETBACK IS FROM ADJACENT HARDSCAPE.

B) TREE PLANTING/STAKING SCALE: NTS



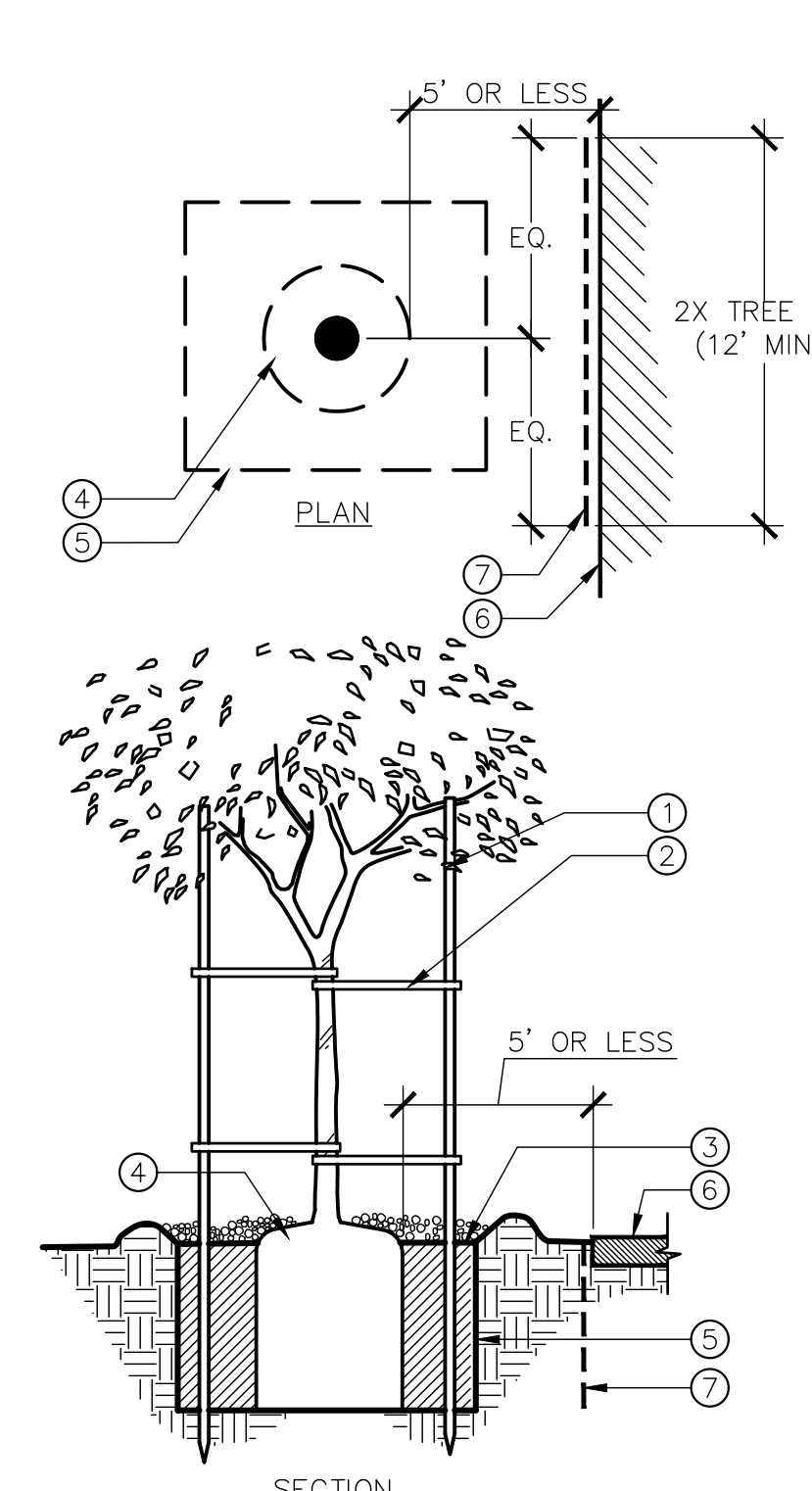
- LEGEND:**
- BACKFILL WATER BASIN W/ 3" OF UNCOMPACTED MULCH. KEEP MULCH AWAY FROM CROWN.
 - FORM 3" HIGH BERM AROUND BASIN.
 - FINISH GRADE.
 - BACKFILL MIX. REFER TO SPECIAL PROVISIONS.
 - FOOT TAMP NATIVE SOIL AS NECESSARY.
 - SHRUB/GROUND COVER
 - ROOT BALL. SET TOP ROOTBALL 1' ABOVE FINISH GRADE.
 - REFER TO SPECIAL PROVISIONS.

C) SHRUB PLANTING SCALE: NTS



- LEGEND:**
- LOCATE PLANTS WITH AN EQUAL ON-CENTER SPACING AS INDICATED ON THE PLANTING LEGEND.
 - LOCATE PLANTS PER SETBACK AS INDICATED ON THE PLANTING LEGEND.
 - EDGE OF MULCH.
 - 18" WIDE MULCH STRIP PARALLEL TO CURB OR EDGE OF PAVING ON ALL SIDES OF THE MEDIAN.
- NOTE:**
- ALIGN PLANT SPACING ROW LAYOUT PARALLEL TO THE CURB, EDGE OF PAVING, OR DIRECTION INDICATED ON PLAN.

D) SHRUB AND GROUND COVER SPACING SCALE: NTS



- LEGEND:**
- TREE STAKE, SEE TREE PLANTING DETAIL.
 - TREE TIES, SEE TREE PLANTING DETAIL.
 - FINISH GRADE.
 - ROOTBALL.
 - TREE PIT.
 - HARDSCAPE ELEMENT.
 - ROOT BARRIER SHALL BE 24" DEEP, REFER TO SPECIAL PROVISIONS FOR MANUFACTURER.
- NOTES:**
- INSTALL ROOT BARRIER IN LINEAR FASHION, PARALLEL AND ADJACENT TO HARDSCAPE ELEMENTS.
 - INSTALL ROOT BARRIER WHERE EDGE OF ROOTBALL IS 5' OR LESS AWAY FROM NEARBY PAVING AND VERTICAL ELEMENTS SUCH AS CURBS, WALLS, FOOTINGS OR ELEMENTS PRONE TO ROOT DAMAGE.
 - DO NOT ENCOMPASS THE ENTIRE ROOTBALL WITH ROOT BARRIER.

A) ROOT BARRIER SCALE: NTS

- GENERAL PLANTING NOTES:**
- PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY PERCEIVED DISCREPANCY BEFORE THE START OF CONSTRUCTION.
 - REMOVAL OF EXISTING TURF SHALL BE 3" DEPTH BELOW TOP OF ADJACENT CURB OR HARDSCAPE SURFACE.
 - ANY SOIL PREPARATION AND PLANTING WITHIN THE DRIP LINE OF THE EXISTING TREES SHALL BE DONE BY HAND.
 - PLANT QUANTITIES IN PLANTING LEGEND ARE FOR CONTRACTOR'S CONVENIENCE ONLY. PLANT QUANTITY ON LEGEND REFLECTS OVERALL QUANTITY FOR THE ENTIRE PROJECT AND NOT QUANTITY PER SHEET. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PLANTS SHOWN ON PLANTING PLANS.
 - ALL PLANTS ARE TO BE INSTALLED OBSERVING THE MINIMUM SETBACK SHOWN IN THE PLANT LEGEND.
 - PLANT SPACING SHOWN IN LEGEND IS FOR REFERENCE ONLY. CONTRACTOR TO LAYOUT PLANTS IN FIELD WITH EXACT QUANTITY FOR EACH LOCATION AS SHOWN IN PLANS FOR APPROVAL PRIOR TO PLANTING.
 - ALL TREES ARE TO BE PLANTED MIN. 20' FROM EXISTING POWER POLES AND LIGHTS (WHERE APPLICABLE). TREES SHALL BE LOCATED TO AVOID USING ROOT BARRIER WHERE POSSIBLE. ROOT BARRIER IS REQUIRED WHERE EDGE OF ROOTBALL IS 5' OR LESS AWAY FROM NEARBY PAVING AND VERTICAL ELEMENTS SUCH AS CURBS, WALLS, FOOTINGS, OR ELEMENTS PRONE TO ROOT DAMAGE.
 - TREE LOCATION SHALL BE SPOTTED IN THE FIELD BY THE AGENCY'S DESIGN DIVISION LANDSCAPE ARCHITECT OR REPRESENTATIVE OF THE AGENCY PRIOR TO INSTALLATION. CONTACT KHAI CHUNG AT (626) 300-3217.
 - CONTRACTOR SHALL PROVIDE 3" DEEP LAYERS OF MEDIUM TO FINE TEXTURED (3/4" TO 2") GROUND WOOD BY-PRODUCT OR SHREDDED BARK MULCH WITHIN THE MEDIANS. MULCH SHALL BE DARK BROWN IN COLOR.

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TWO WORKING DAYS BEFORE YOU DIG

DATE	MK	DESCRIPTION

LOS ANGELES COUNTY PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010
PLANTING NOTES LEGEND & DETAILS

PROJECT LANDSCAPE ARCHITECT DATE LACFCD INDEX NO. 116-D27 PCA SHEET 26 OF 27

TREE PROTECTION NOTES:

1. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING TREES FROM DAMAGE OR DEATH. PROTECTION SHALL BE GIVEN TO THE ROOTS, TRUNK, AND FOLIAGE OF ALL EXISTING TREES TO REMAIN.
2. THE EXTENT OF THE **TREE PROTECTION ZONE** SHALL BE ESTABLISHED AT A DISTANCE 15' FROM THE TRUNK OR 5' BEYOND THE CANOPY OF THE TREE DRIPLINE (WHICHEVER IS GREATER), AND SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO ANY SITE WORK.
3. THE AREA OF **CRITICAL ROOT ZONE (CRT)** SHALL COINCIDE WITH TREE PROTECTION ZONE. ROOT PRUNING WITHIN THE CRT SHALL BE IN COMPLIANCE WITH ANSI A300 GUIDELINES AND ARBORICULTURAL PRACTICE. WHERE TRENCHING WITHIN THE CRT UNAVOIDABLE, THE ENGINEER MAY REQUIRE TRENCHING ALTERNATIVES SUCH AS BORING BELOW THE TREE ROOTS.
4. ANY DAMAGE TO TREES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE AGENCY WILL DETERMINE THE REPLACEMENT VALUE.
5. FOR BIRD NESTING, REFER TO SECTION EC IN SPECIAL PROVISIONS.
6. DO NOT NAIL GRADE STAKES OR ANYTHING ELSE TO TREES.
7. NO EQUIPMENT IS TO BE OPERATED OR PARKED WITHIN A TREE PROTECTION ZONE.
8. NO MATERIALS OR TOOLS ARE TO BE STOCKPILED OR STORED WITHIN A TREE PROTECTION ZONE.
9. DO NOT STRIP TOPSOIL AROUND TREES. ANY VEGETATION TO BE REMOVED SHOULD BE REMOVED BY CUTTING AT GROUND LEVEL RATHER THAN PULLING OUT BY EQUIPMENT.
10. THE **ROOT FLARE ZONE** IS THE AREA ADJACENT TO WHERE THE TREES ROOTS JOIN THE TRUNK OF THE TREE. SHRUBS SHALL NOT BE PLANTED WITHIN THE ROOT FLARE ZONE.
11. CONTRACTOR SHALL INSTALL PROTECTIVE FENCING AT THE PERIMETER OF THE TREE PROTECTION ZONE.
12. PROTECTIVE FENCE SHALL BE MIN. 4' HIGH (5' MIN. FOR OAK TREES), STURDY AND VISIBLE. FABRIC FOR PROTECTIVE FENCING SHALL BE HIGH DENSITY POLYETHYLENE WITH 3.5" X 1.5" OPENINGS. COLOR ORANGE (FOR OAK TREES FENCE FABRIC SHALL BE CHAINLINK). USE 2" X 6" STEEL POSTS INSTALLED AT 8' ON CENTER AROUND TREES THAT ARE INDICATED TO REMAIN.
13. PLACE WARNING SIGNS EVERY 50', (3) SIGNS AT EACH TREE MINIMUM, ALONG FENCE THAT READS:

**KEEP OUT
TREE PROTECTION ZONE**

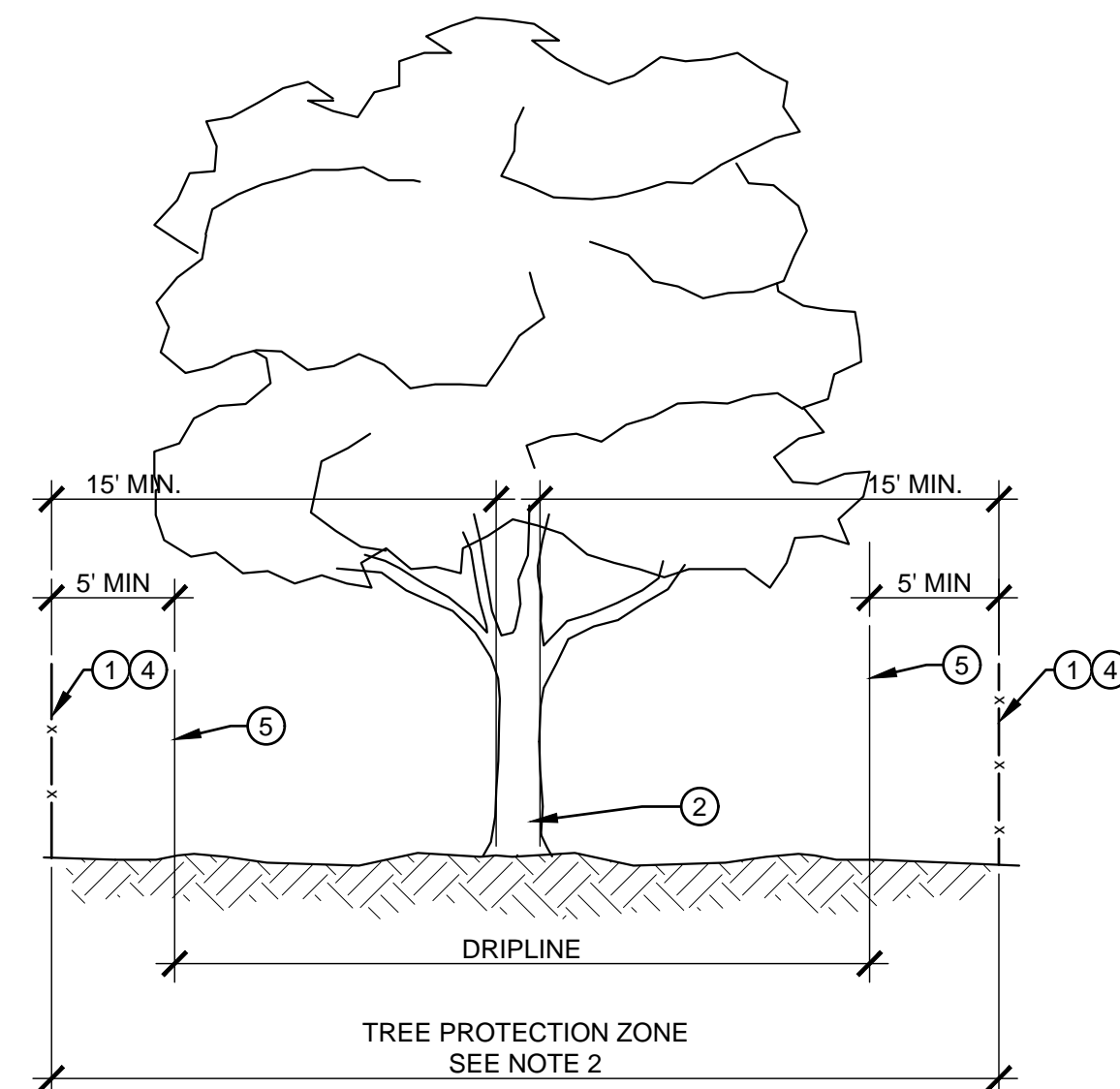
TEXT OF SIGN SHALL BE CENTER JUSTIFIED AND IN LARGE LETTERS. SIGN SHALL BE 8.5" BY 11" HERMETICALLY SEALED (LAMINATED) BETWEEN (2) PIECES OF PLASTIC, EACH PIECE BEING A MINIMUM OF 20 MILS THICK.

14. MAINTAIN MINIMUM CLEARANCE OF SIX INCHES OUTSIDE DRIP LINE OF SUCH TREES EXCEPT FOR TREES WITHIN SIDEWALKS OF PUBLIC RIGHT-OF-WAY AND/OR WHEN WORK HAS TO BE PERFORMED WITHIN THE AREA OF TREE ROOT PROTECTION.
15. WITHIN SIDEWALKS, ERECT FENCES TO MAXIMIZE ROOT PROTECTION ZONES AS MUCH AS POSSIBLE. SEE PLAN VIEWS.
16. WHERE TRENCHING WITHIN THE AREA OF TREE ROOT PROTECTION IS UNAVOIDABLE, LOCATE PROTECTION FENCING BETWEEN WORK AREA AND TREE NO CLOSER THAN SIX INCHES AROUND THE ROOT FLARE ZONE. FENCE AREAS WITHIN DRIP LINE OF TREES ON ADJACENT PROPERTY THAT OVERHANG THE WORKSITE. FENCING SHALL NOT IMPEDE INTO TRAFFIC OR BLOCK PEDESTRIAN PATHWAY. FENCING SHALL BE CONSTRUCTED IN A MANNER THAT IS SAFE AND NOT BECOME A HAZARD TO THE PUBLIC.
17. IF FOOT, VEHICLE OR CONSTRUCTION MACHINERY TRAVEL WITHIN THE TREE PROTECTION ZONE, 6"- 12" WOOD MULCH OR A 3/4" PLYWOOD OVER 4" LAYER OF MULCH SHALL BE PLACED WITHIN THE TREE PROTECTION ZONE.
18. ROOT ZONE PROTECTION. THE ADJOINING SOIL SHOULD BE MAINTAINED AT THE SAME GRADE AS THE ROOT ZONE BEFORE AND AFTER CONSTRUCTION. NO SOIL SHALL BE IN CONTACT WITH THE TRUNK OF THE TREE ABOVE THE ROOT FLARE. WHERE LOWERING THE GRADE IS UNAVOIDABLE, ROOTS MAY BE CLEAN CUT AT RIGHT ANGLES TO THE ROOT WITH A SHARP TOOL. NO MORE THAN 25 PERCENT OF THE ROOT ZONE SHALL BE IMPACTED. ROOTS GREATER THAN 1-1/2 INCHES IN DIAMETER WITHIN THE ROOT ZONE SHALL NOT BE CUT WITHOUT A CERTIFIED ARBORIST'S REPORT OF TREE CONDITIONS INCLUDING THE PROBABILITY OF SURVIVAL, AND THE ENGINEER'S APPROVAL.
19. THE CONTRACTOR SHALL PROTECT THE TREE AND ROOT ZONE DURING CONSTRUCTION PER SPECIAL PROVISIONS AND BY CONFORMING TO THE FOLLOWING:

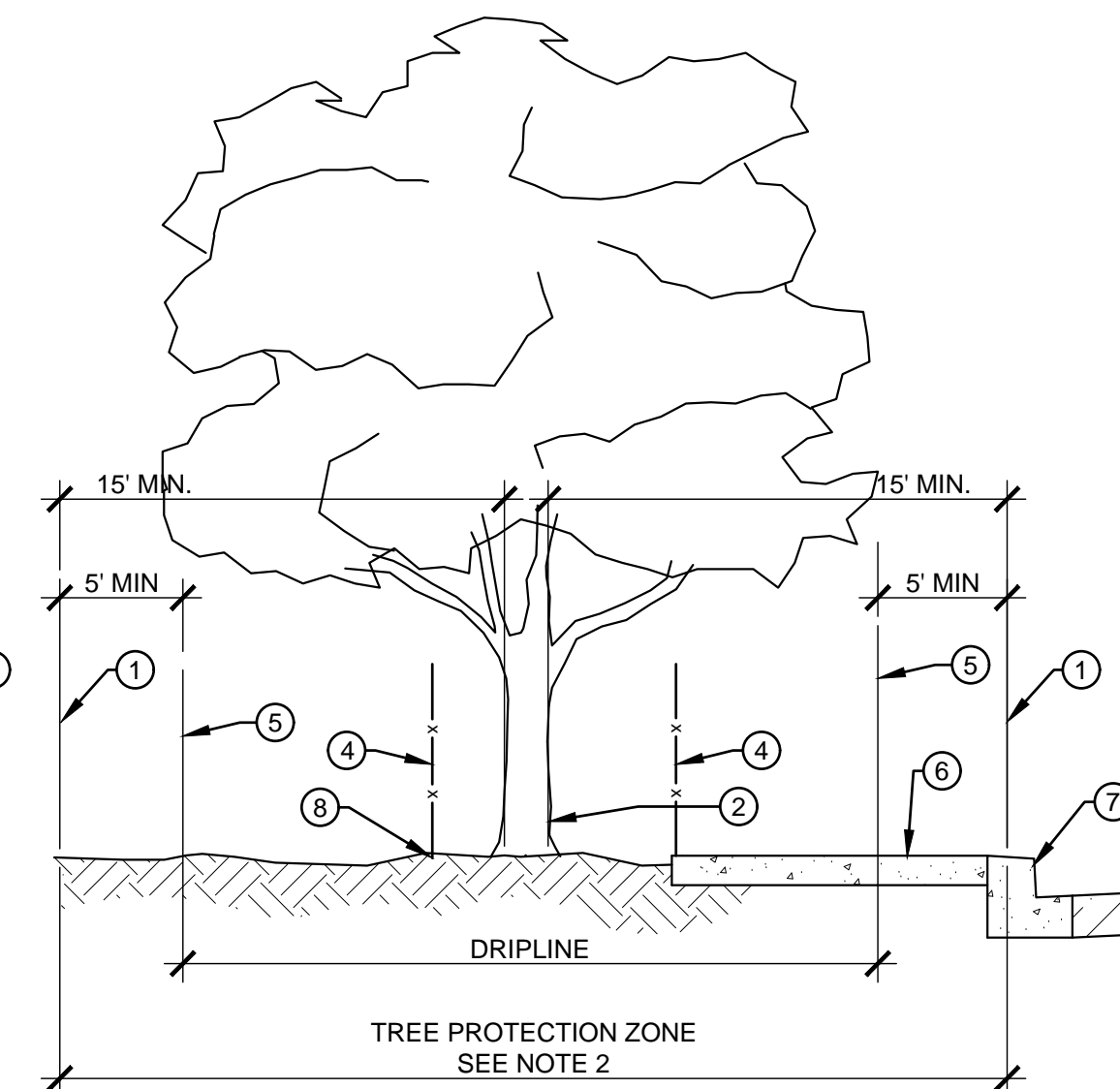
- A) CHAIN LINK FENCING WITH AN ACCESS GATE SHALL BE FURNISHED AND INSTALLED TO PROTECT THE ROOT ZONE, SUBJECT TO THE ENGINEER'S REVIEW OF SITE CONDITIONS. THE LOCATION OF THE FENCING SHALL BE APPROVED BY THE ENGINEER. CLIPPINGS FROM PRUNING MOUNDED UP TO 3 FEET HIGH MAY BE USED TO PROTECT THE ROOT ZONE BUT MUST STILL EFFECTIVELY IRRIGATE THE ROOT ZONE. CLIPPINGS SHALL BE REMOVED AFTER CONSTRUCTION IS COMPLETED.
- B) THE ROOT ZONE SHALL BE IRRIGATED WITH CLEAN POTABLE WATER.
- C) NO TRENCHING OR CUTTING OF ROOTS WILL BE ALLOWED IN THE ROOT ZONE WITHOUT THE PRESENCE OF THE ENGINEER AND A CERTIFIED ARBORIST. PIPES OR CABLES SHALL BE RELOCATED OUTSIDE THE DRIPLINE OF TREES. ROOTS MAY BE BORED OR TUNNELED UNDER. TRENCHES SHALL BE RADIAL TO THE TRUNK. THE SAME TRENCH SHALL BE USED FOR MULTIPLE UTILITIES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- D) EXPOSED AND BRIDGING TREE ROOTS SHALL BE WRAPPED WITH 3 LAYERS OF BURLAP AND KEPT MOIST. TRENCHES WITHIN DRIPLINES SHALL BE CLOSED WITHIN 24 HOURS OF OPENING.
- E) WORK SHALL BE ACCOMPLISHED WITH HAND TOOLS WITHIN THE ROOT ZONE. HEAVY EQUIPMENT SHALL NOT PASS OVER THE ROOT ZONE.
- F) WHERE LOWERING THE GRADE IS UNAVOIDABLE, A MAXIMUM OF 25 PERCENT OF THE ROOTS MAY BE CLEAN CUT WITH A SHARP TOOL AT RIGHT ANGLES TO THE ROOTS. ROOTS GREATER THAN 1-1/2 INCHES IN DIAMETER SHALL NOT BE CUT WITHOUT A CERTIFIED ARBORIST'S ASSESSMENT OR REPORT OF TREE CONDITIONS INCLUDING THE PROBABILITY OF SURVIVAL, AND THE ENGINEER'S APPROVAL.
- G) NO CONSTRUCTION STAGING, STORAGE AND DISPOSING OF MATERIALS WILL BE ALLOWED WITHIN THE ROOT ZONE.
- H) LIGHT PRUNING IN THE PRESENCE OF THE AGENCY'S LANDSCAPE ARCHITECT OR A CERTIFIED ARBORIST MAY BE PERFORMED TO AVOID DAMAGE TO BRANCHES FROM CONSTRUCTION VEHICLES OR CRANES.

LEGEND:

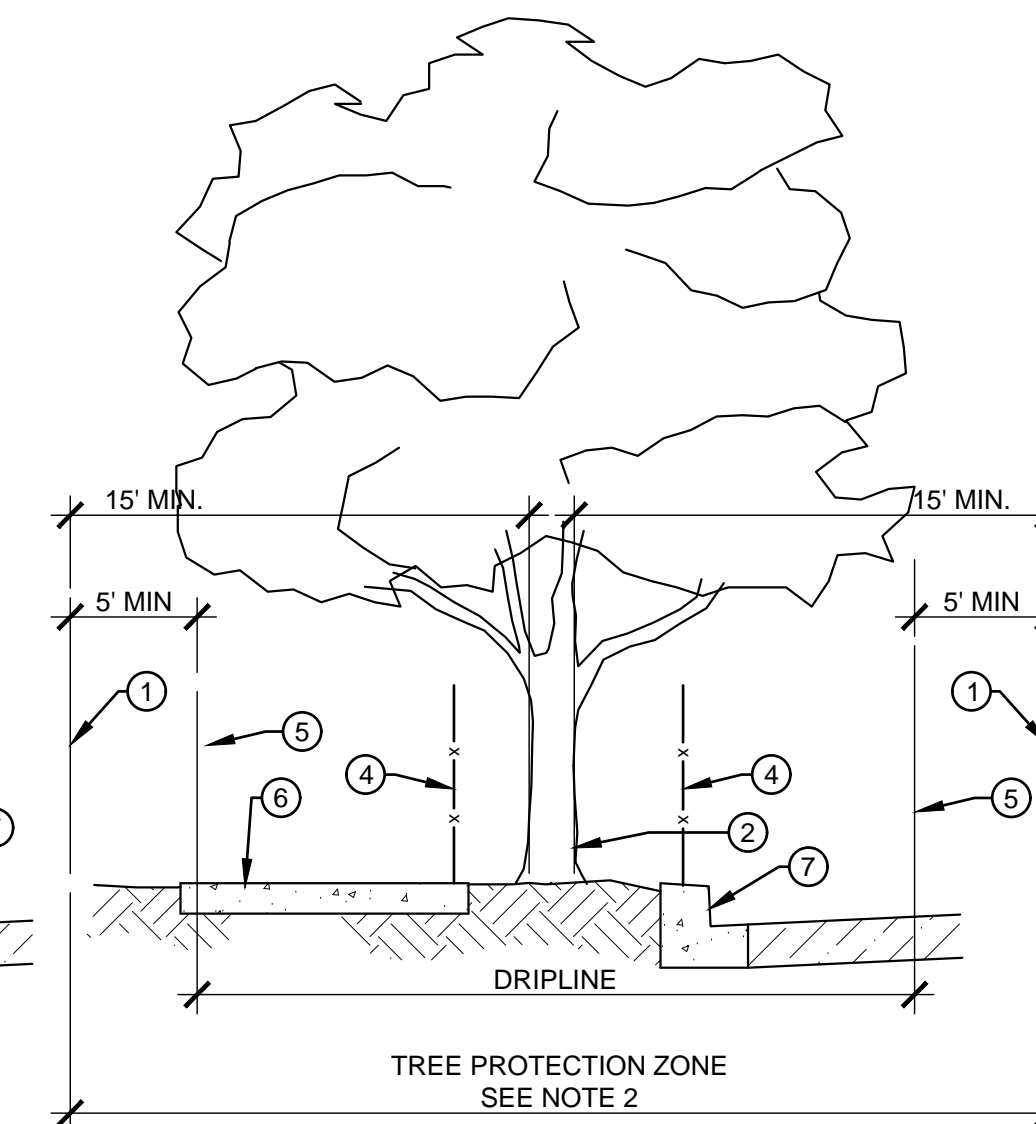
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|--|----------------------------------|
| ① TREE PROTECTION ZONE/
CRITICAL ROOT ZONE. SEE NOTES
2 & 3. | ⑤ TREE CANOPY/DRIPLINE. |
| ② TREE TRUNK. | ⑥ EXISTING SIDEWALK. |
| ③ ROOT FLARE ZONE. SEE NOTE 10. | ⑦ EXISTING CURB. |
| ④ PROTECTIVE FENCE. SEE NOTE 12. | ⑧ R.O.W. OR EXISTING FENCE/WALL. |



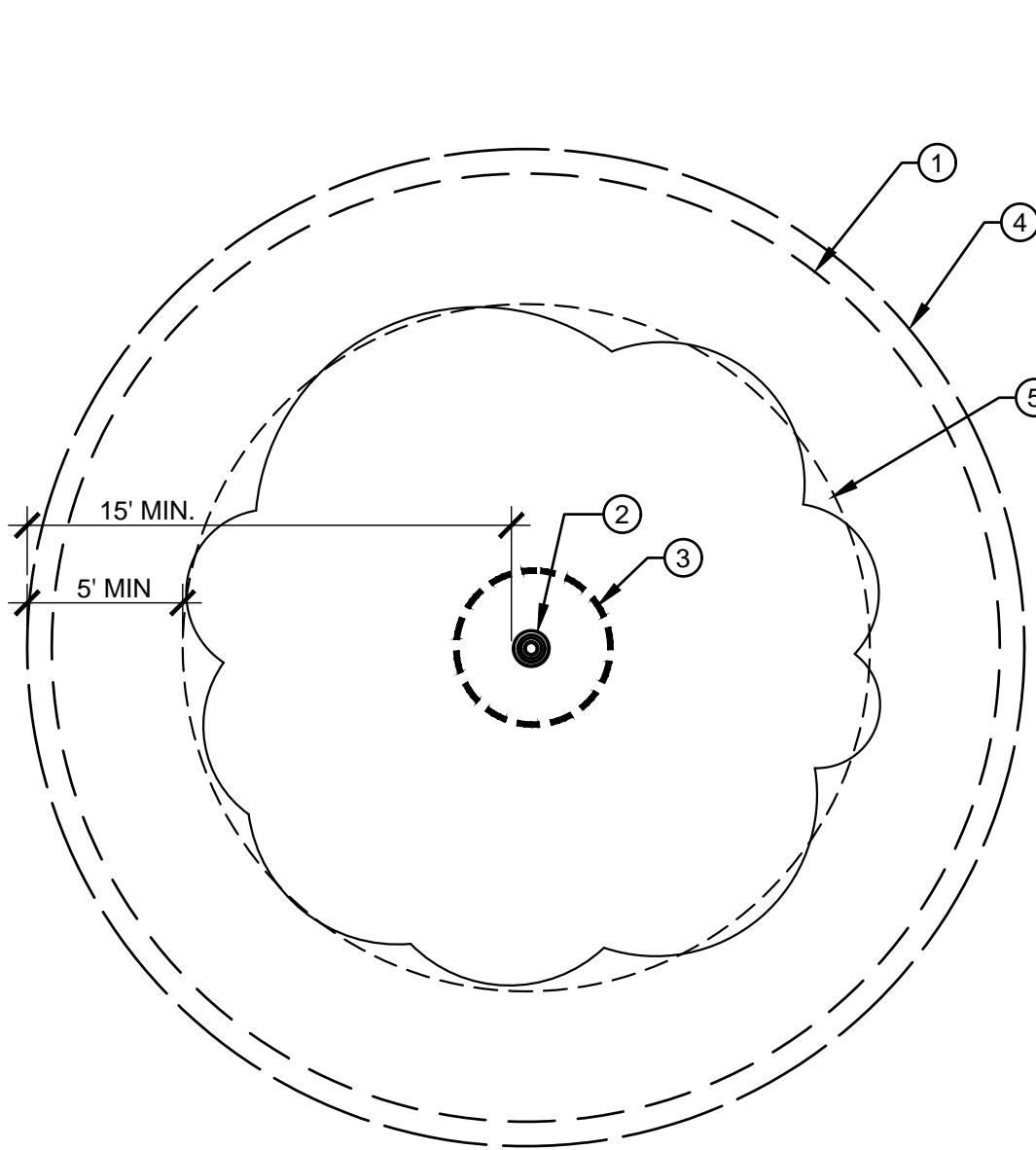
TREE IN OPEN AREA CONDITION - ELEVATION



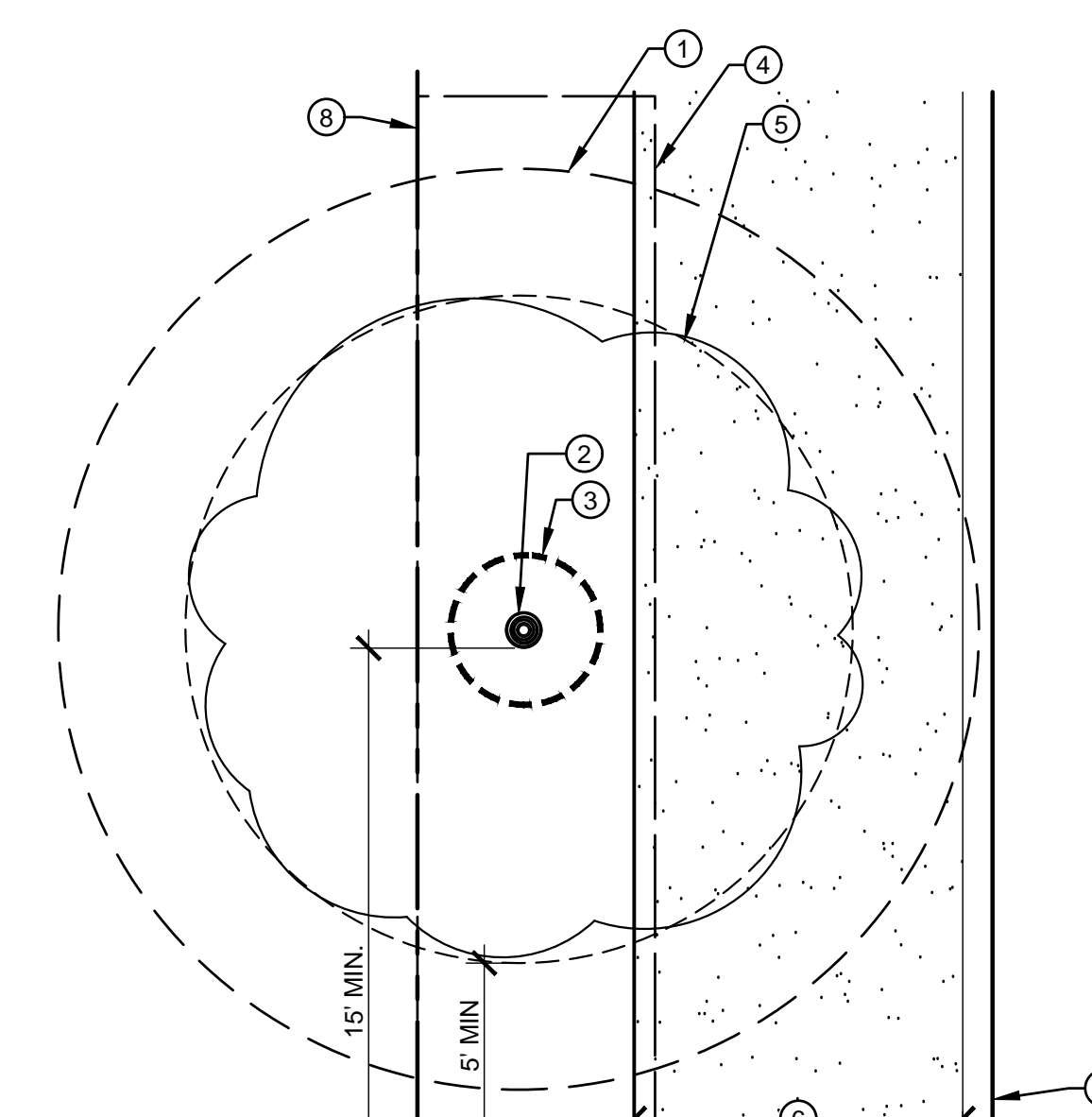
TREE IN BACK OF SIDEWALK OR IN MEDIAN CONDITION - ELEVATION



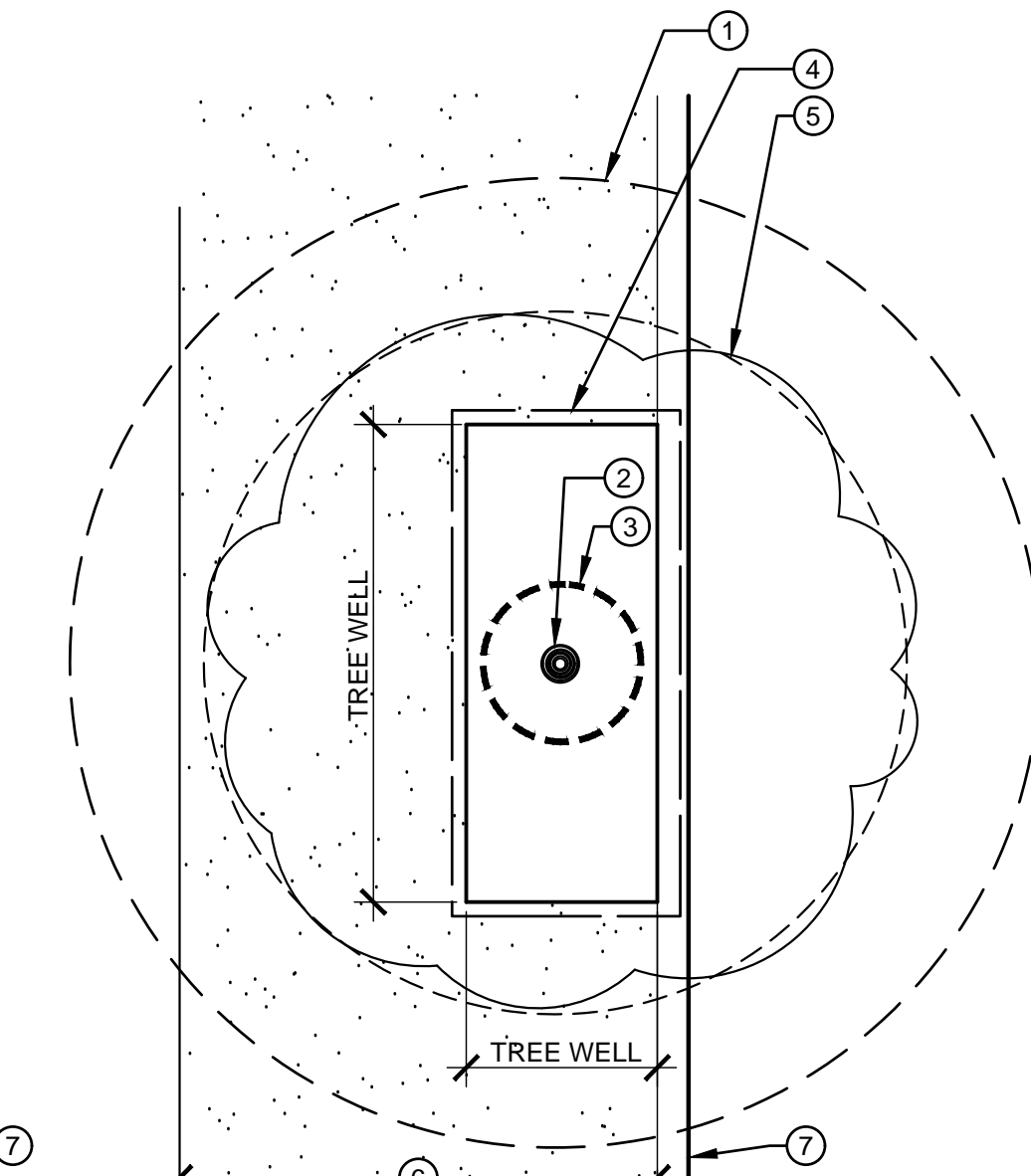
TREE IN TREE WELL/SIDEWALK CONDITION - ELEVATION



TREE IN OPEN AREA CONDITION - PLAN VIEW



TREE IN BACK OF SIDEWALK OR IN MEDIAN CONDITION - PLAN VIEW



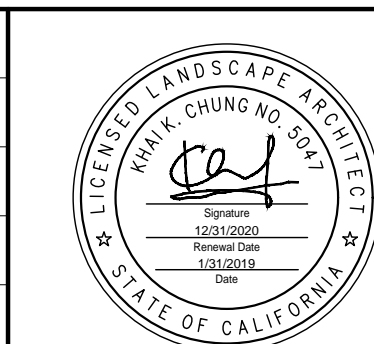
TREE IN TREE WELL/SIDEWALK CONDITION - PLAN VIEW

CALL 8-1-1 TOLL FREE



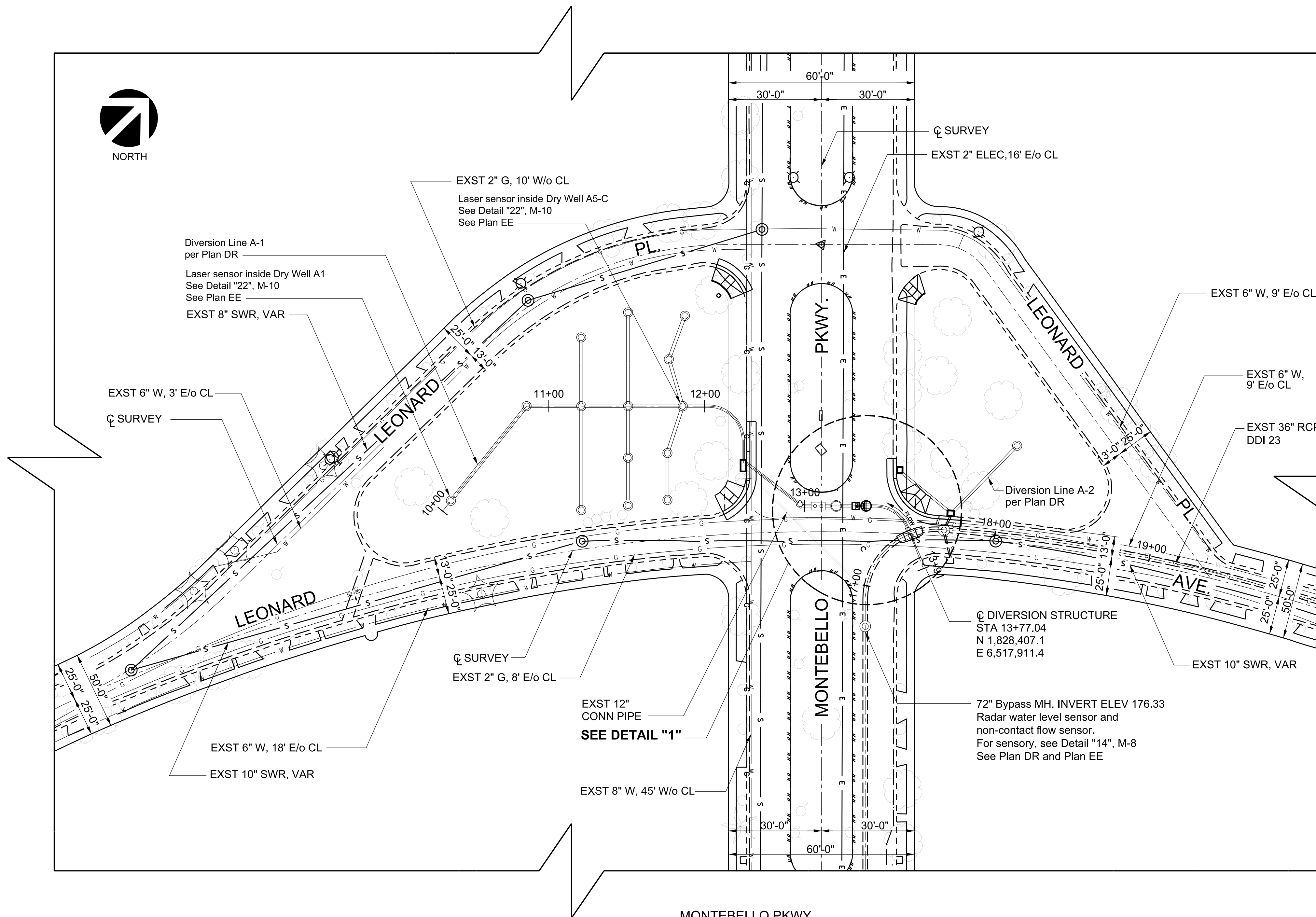
TWO WORKING DAYS
BEFORE YOU DIG

DATE	MK	DESCRIPTION
REVISIONS		

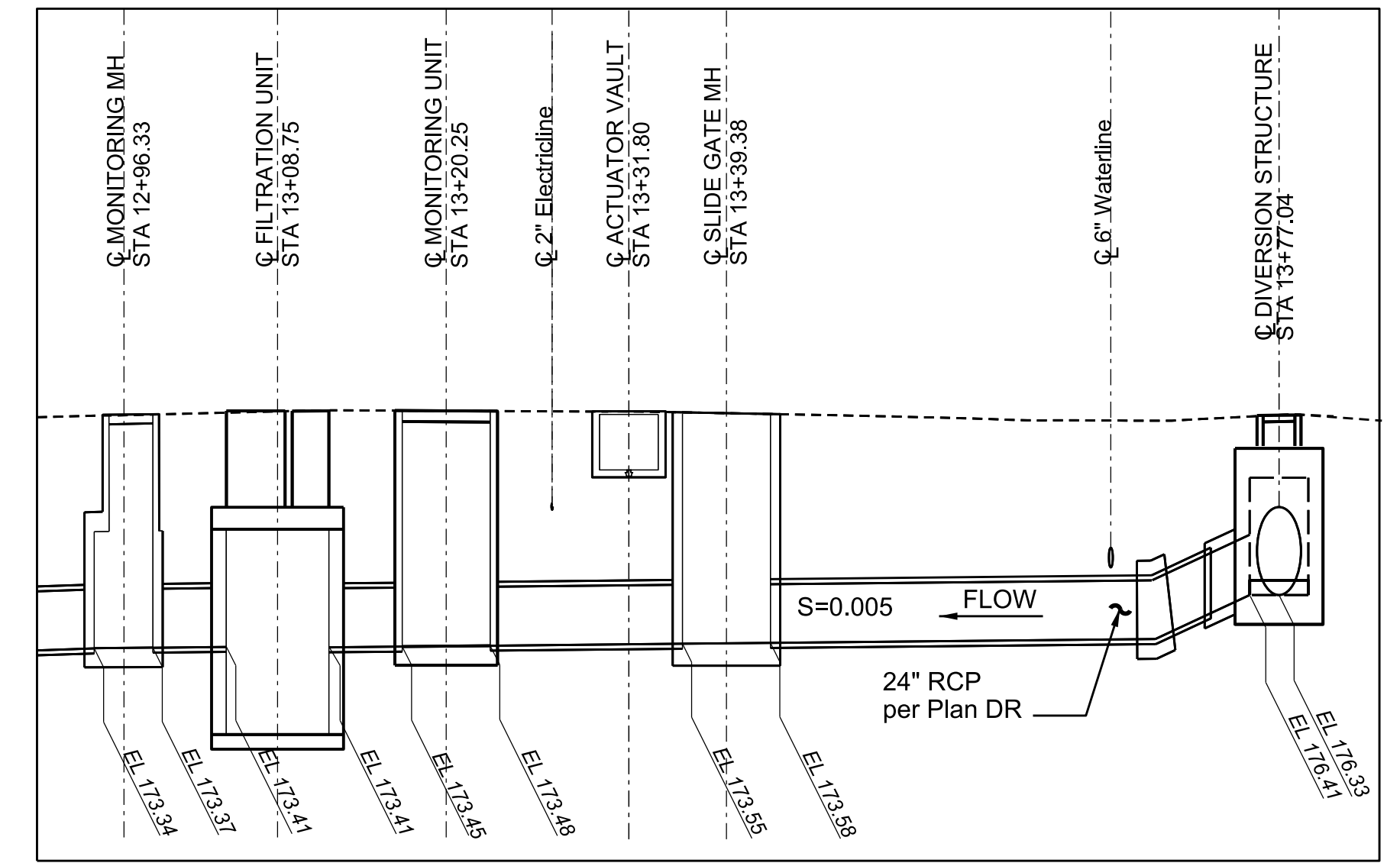


PROJECT LANDSCAPE ARCHITECT DATE

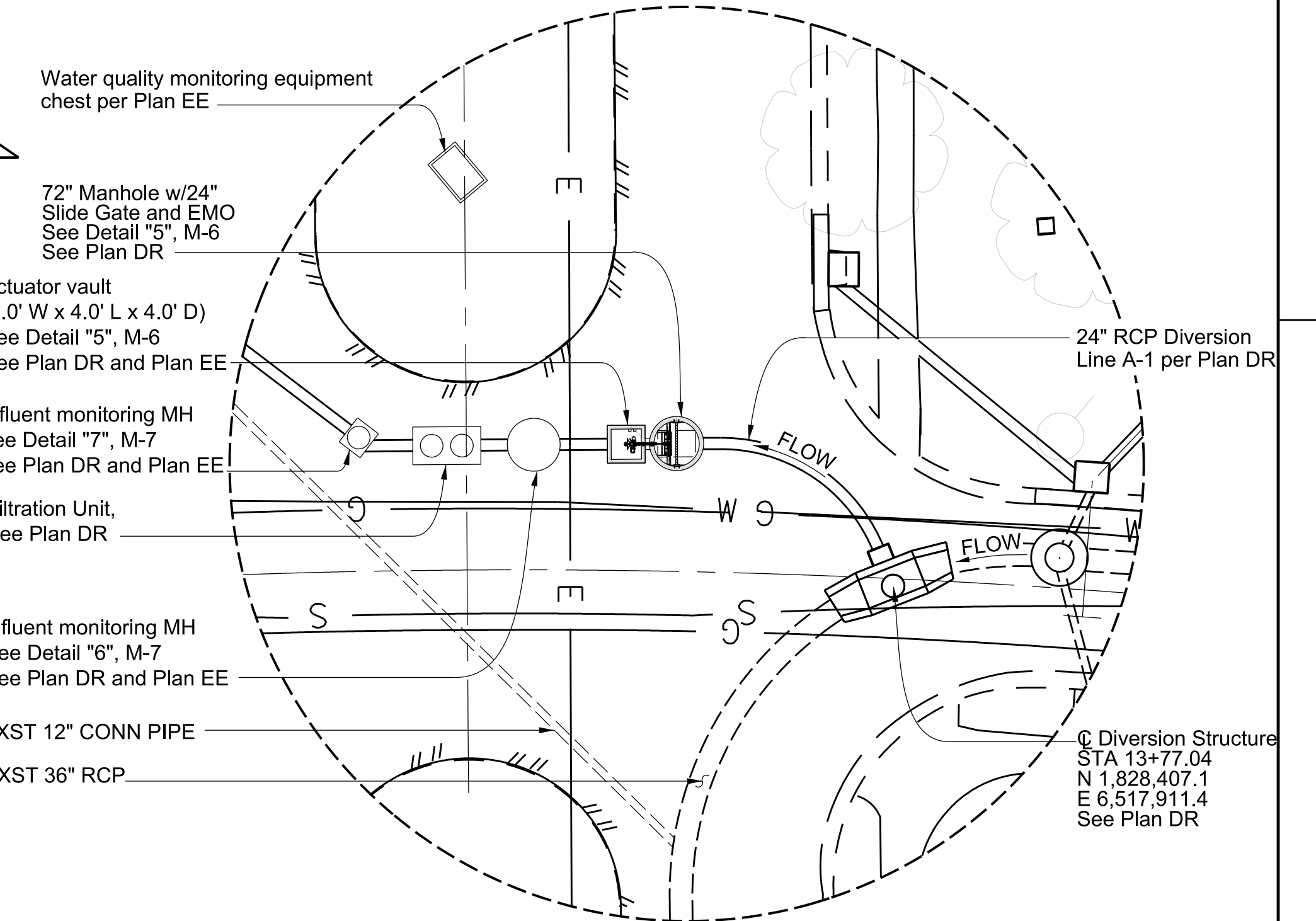
LOS ANGELES COUNTY PUBLIC WORKS	
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT	
PROJECT ID NO. WMU0000010	
TREE PROTECTION PLAN	
LS-12.01	SHEET 27 OF 27



MONTEBELLO PKWY.
PLAN LAYOUT
SCALE: 1" = 40'-0"



Note: For Profile Detail See Plan DR
MONTEBELLO PKWY. PROFILE
NOT TO SCALE



DETAIL "1"
SCALE: 1/16" = 1'-0"

GENERAL NOTES

- Electrical conduit details are shown on Plan EE.

MECHANICAL

- M-1. MECHANICAL SITE PLAN AND PROFILE (MONTEBELLO PKWY)
- M-2. MECHANICAL SITE PLAN (NORTHSIDE DR AND SOUTHSIDE DR)
- M-3. MECHANICAL PROFILES (NORTHSIDE DR AND SOUTHSIDE DR)
- M-4. MECHANICAL SITE PLAN (SOUTHSIDE DR AND COOLIDGE WAY)
- M-5. WATER MONITORING SENSORY (NORTHSIDE DR AND EASTON ST)
- M-6. SLIDE GATE AND ELECTRIC MOTOR OPERATOR DETAILS
- M-7. DETAILS SHEET 1
- M-8. DETAILS SHEET 2
- M-9. DETAILS SHEET 3
- M-10. DETAILS SHEET 4

LEGEND

- Existing water line — W — W —
- Existing reclaimed water line — -W - - W - -
- New water line — NW — NW —
- Existing sewer line — S — S —
- Storm Drain — SD — SD —
- Electrical — E — E —

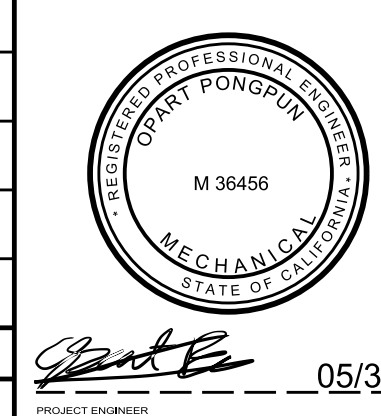
ABBREVIATION

- S.S. Stainless Steel

BENCHMARK DATA	
PT 2/ CL INT	NAVD '88BTSPK & W DN 2" RIVERA 2005 ADJN
1828513.8581	PWFB 1124 PG 1922E
6517748.9275EL	= 183.47

M-1

DATE	MK	DESCRIPTION
REVISIONS		



LOS ANGELES COUNTY PUBLIC WORKS

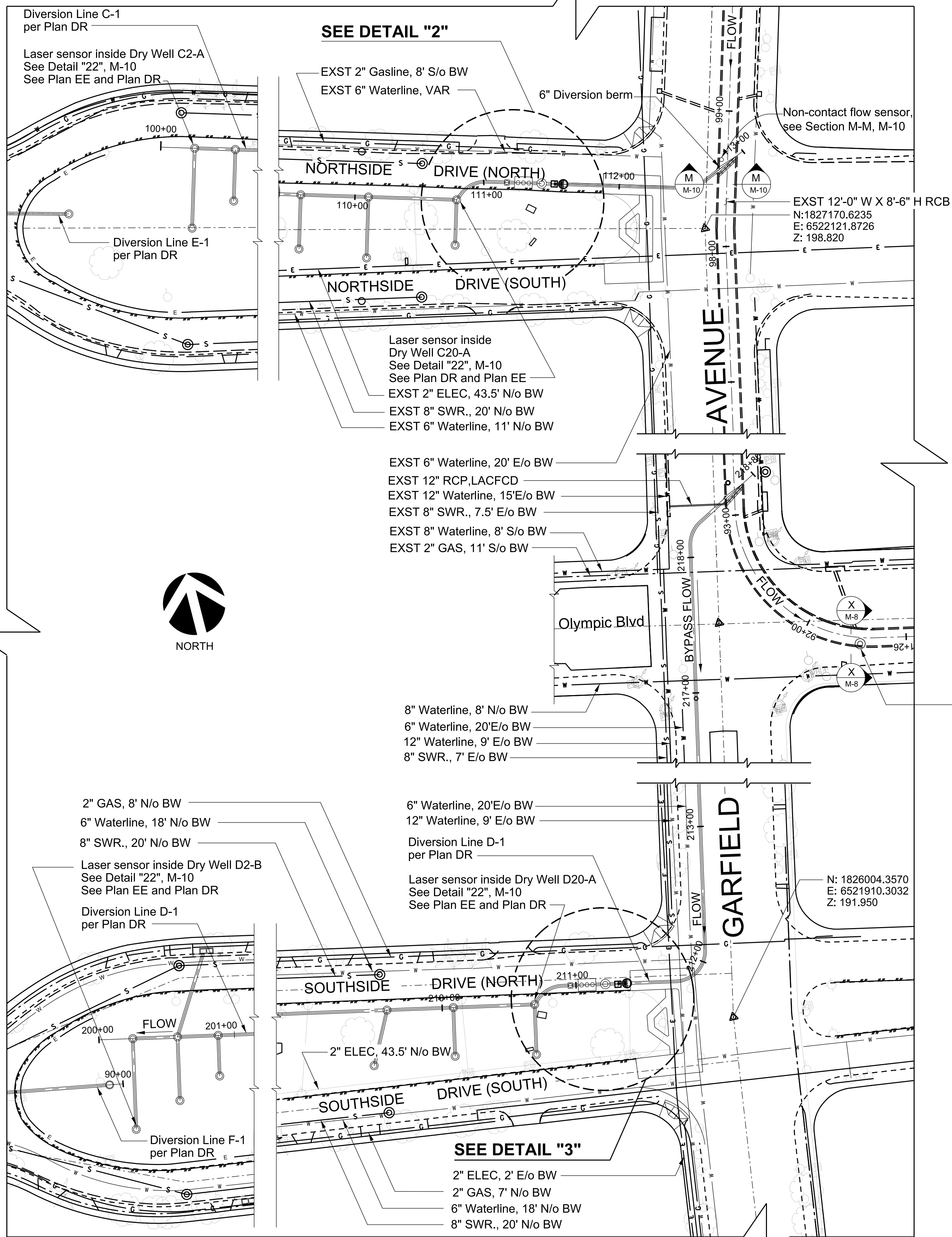
EAST LOS ANGELES

SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

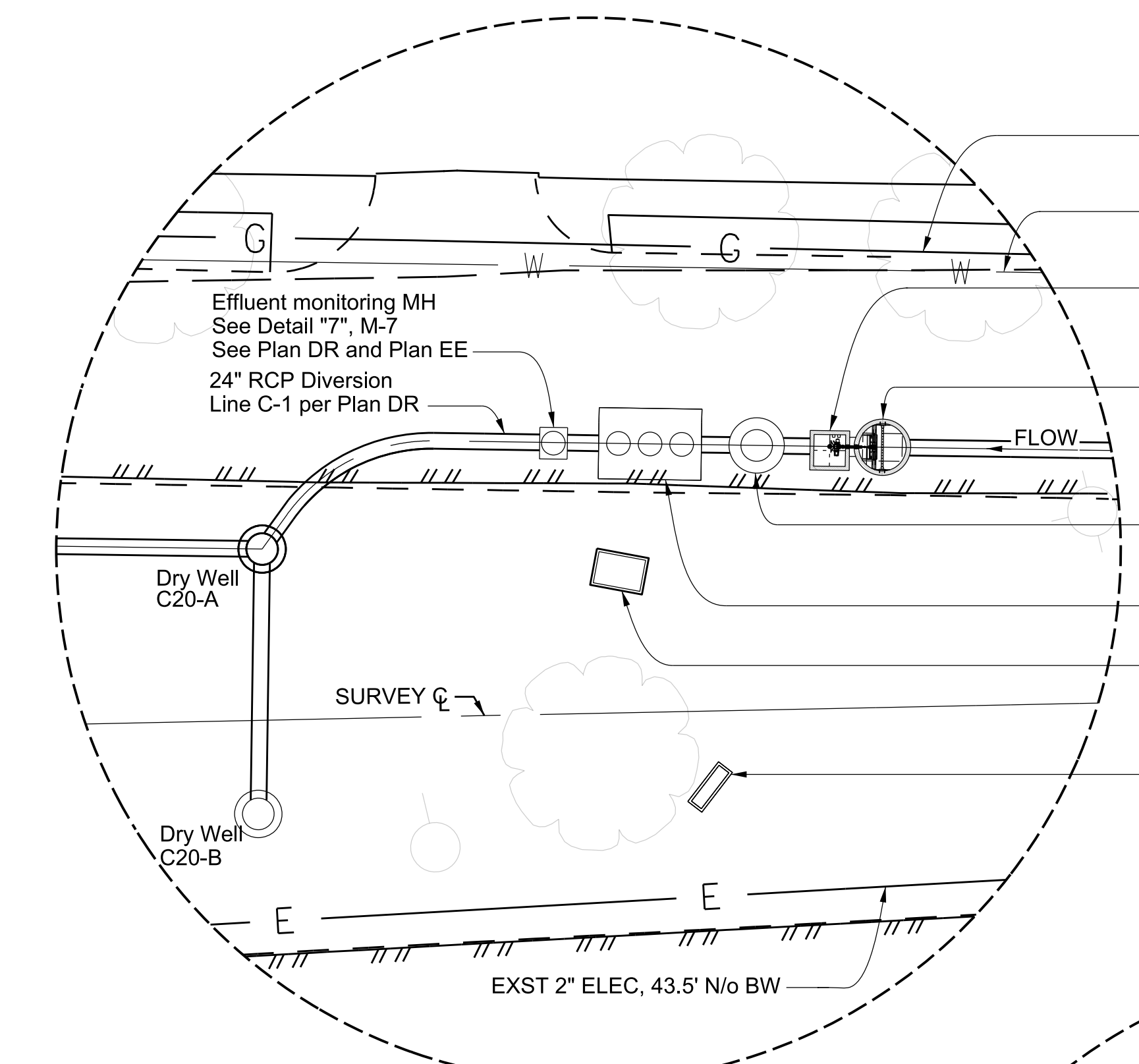
MECHANICAL SITE PLAN AND PROFILE
(MONTEBELLO PKWY)

PROJECT ID NO. WMU000010

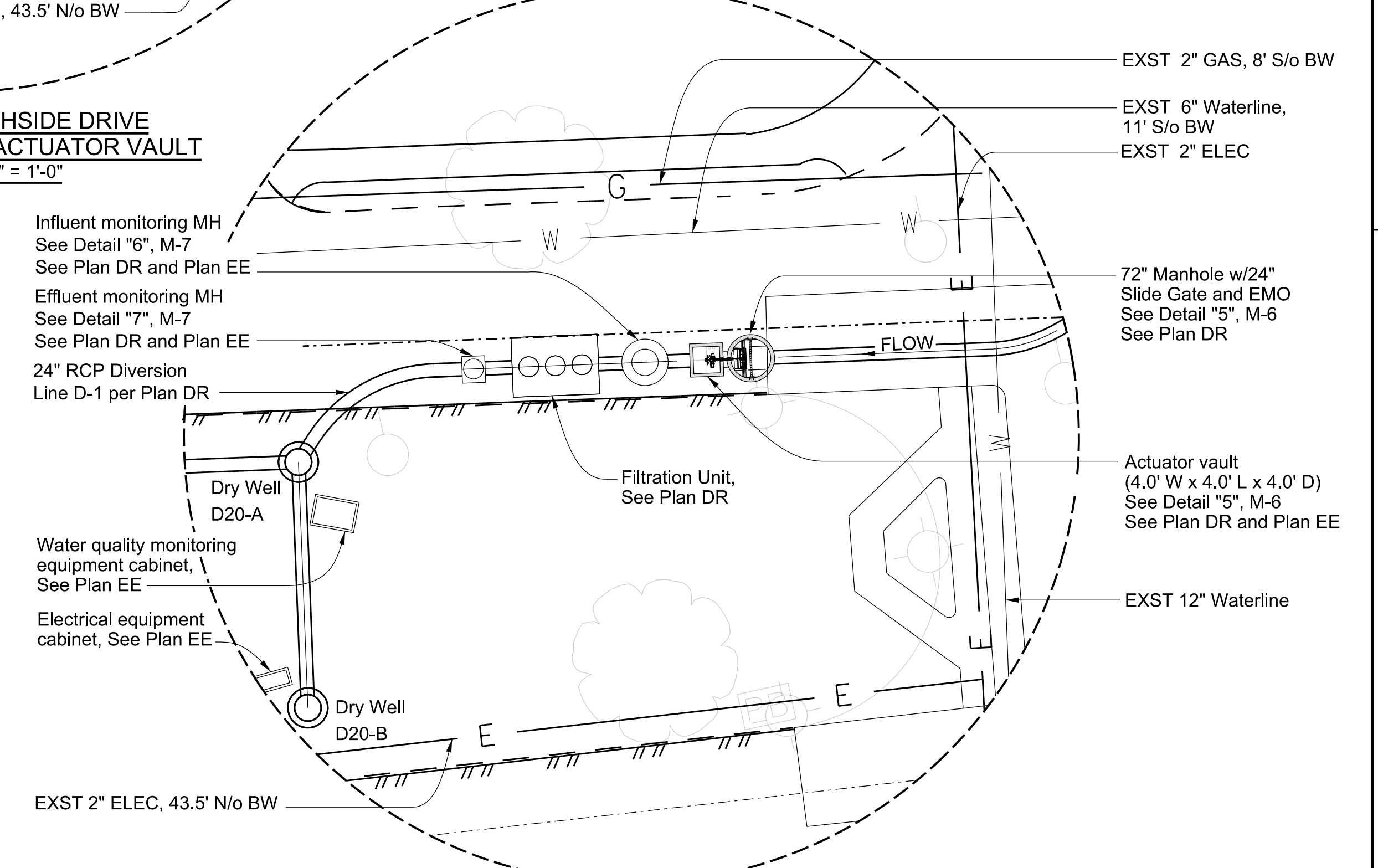
LACFCD INDEX NO.116 - D27 SHEET 1 OF 10



NORTHSIDE & SOUTHSIDE DRIVE MEDIANS PLAN LAYOUT
SCALE: 1" = 50'-0"



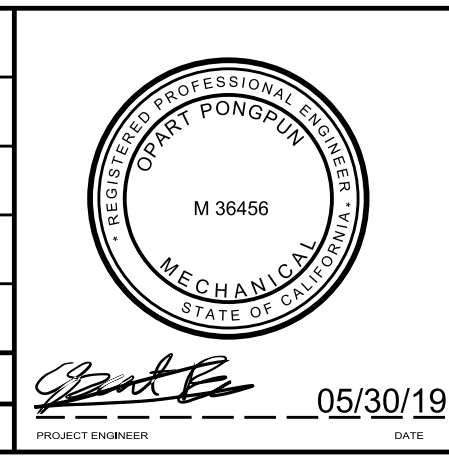
DETAIL "2", NORTHSIDE DRIVE 24" SLIDE GATE AND ACTUATOR VAULT
SCALE: 1/16" = 1'-0"



DETAIL "3", SOUTHSIDE DRIVE 24" SLIDE GATE AND ACTUATOR VAULT
SCALE: 1/16" = 1'-0"

DRAFTER: Shadis A. L. Javier A.
 DESIGNER: Shadis A. L. Javier A.
 CHECKER: OPART P.
 CADD PROJECT FILE NAME:

DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS

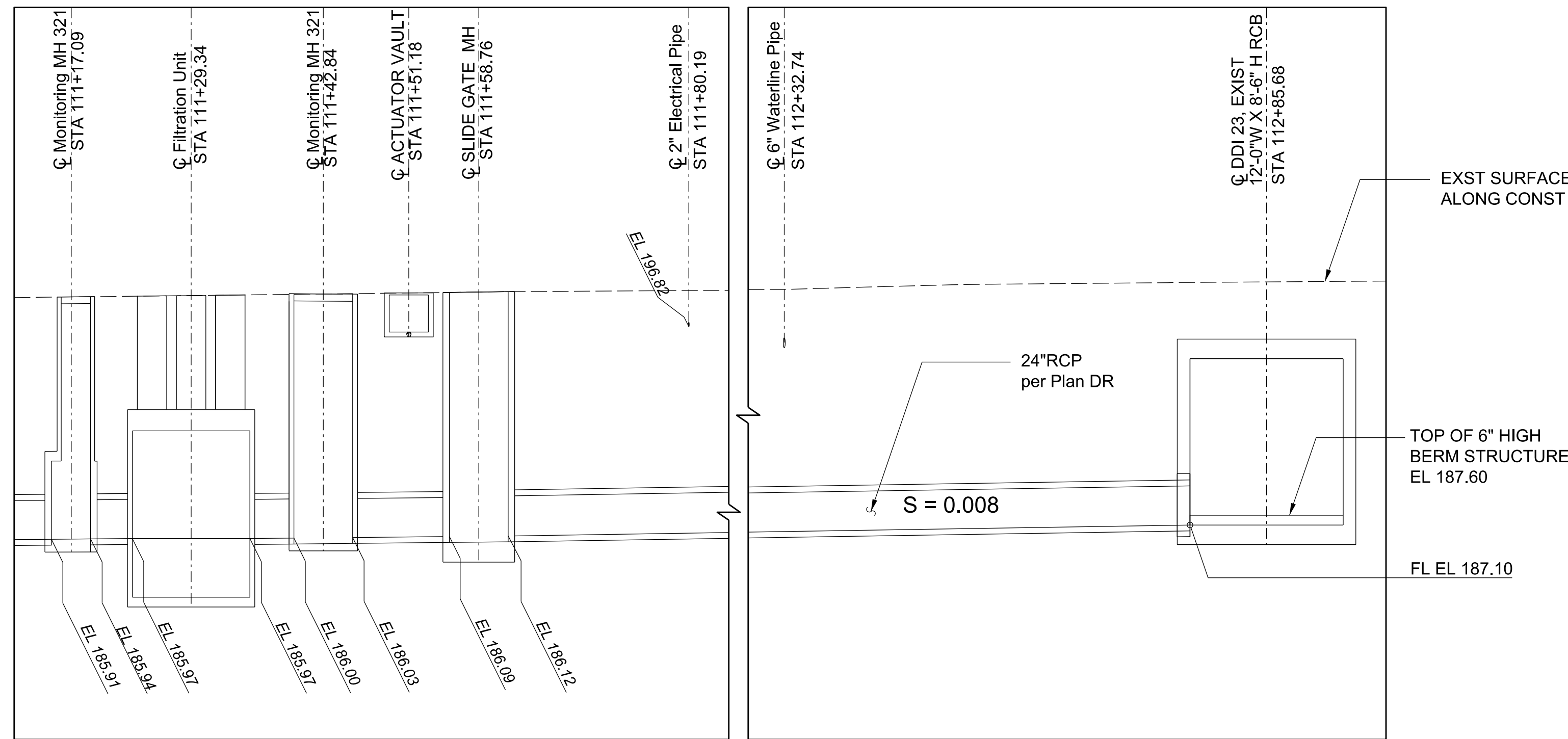
EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

MECHANICAL SITE PLAN (NORTHSIDE DR AND SOUTHSIDE DR)

PROJECT ID NO. WMU000010

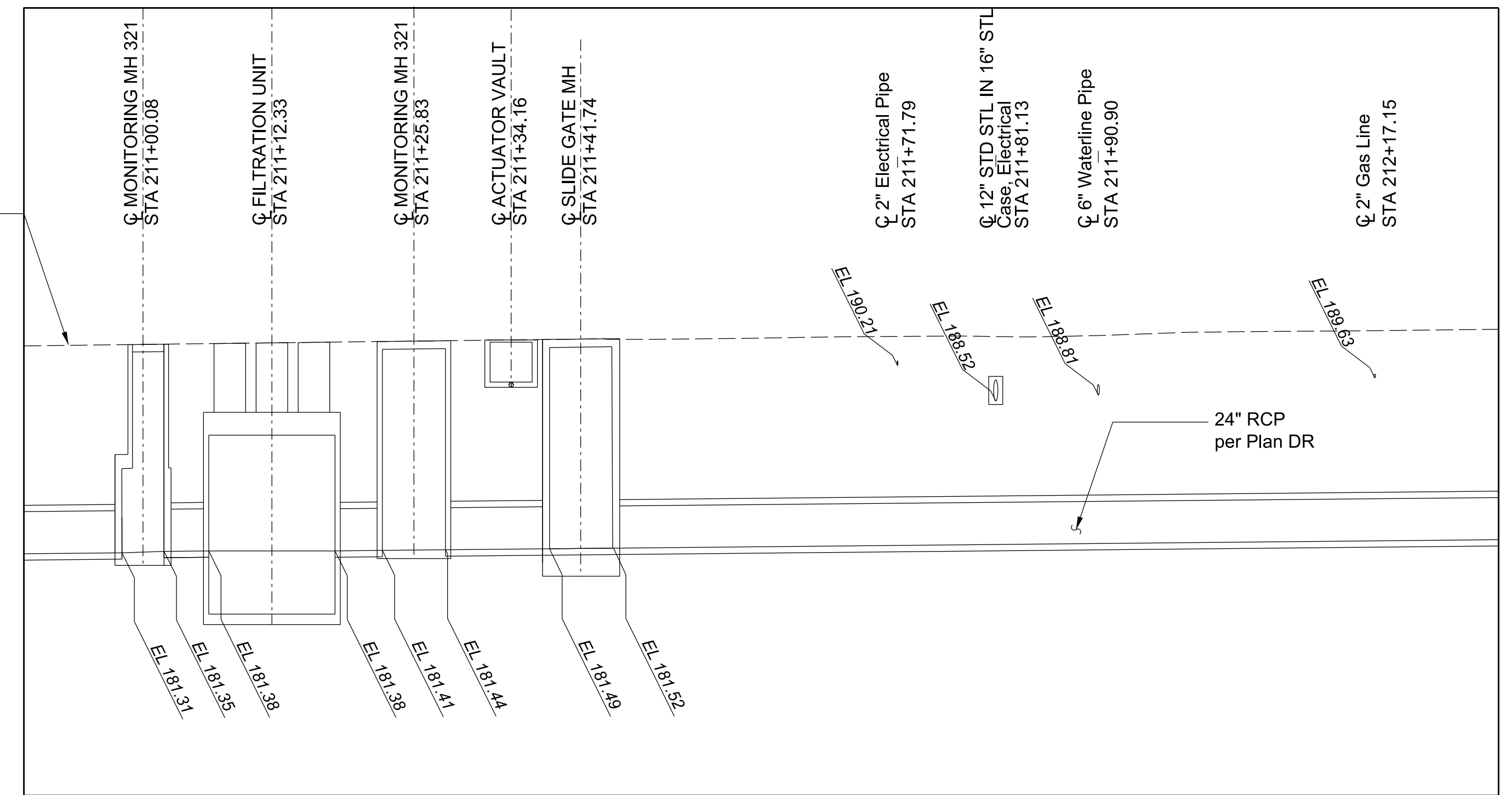
LACFCD INDEX NO.116 - D27 SHEET 2 OF 10

DATE: 05/30/19



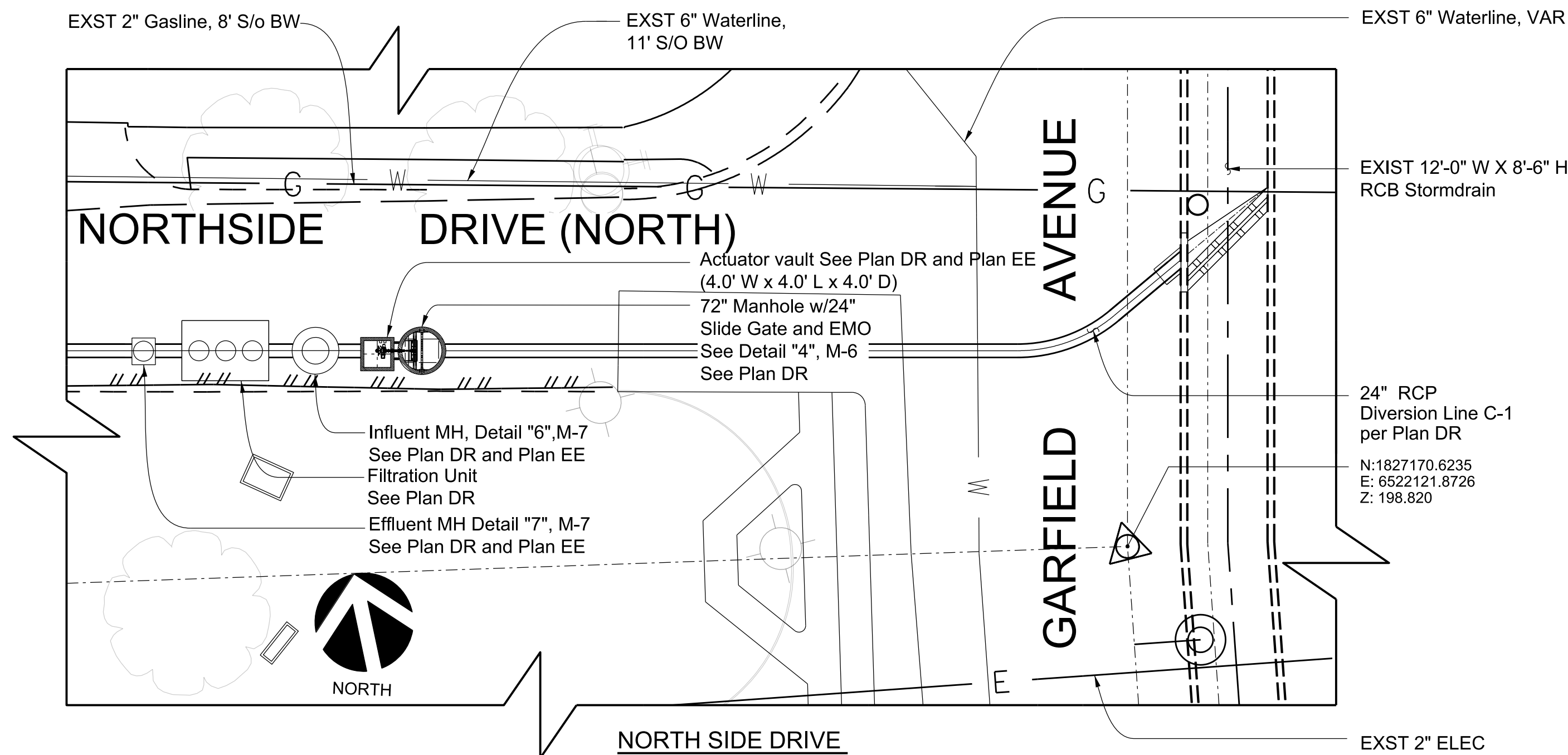
Note: For Profile Detail See Plan DR

NORTH SIDE ELEVATION PROFILE
NOT TO SCALE



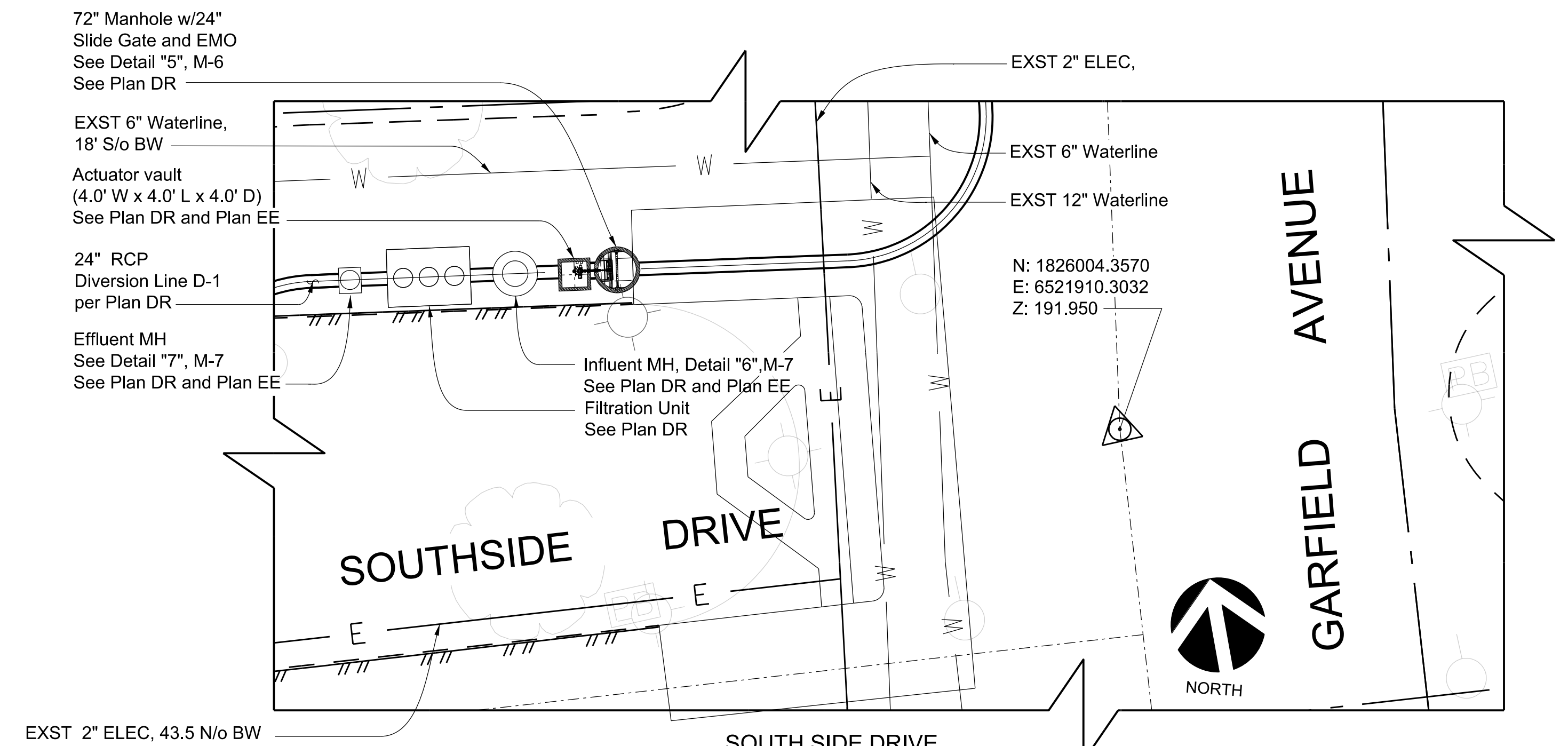
Note: For Profile Detail See Plan DR

SOUTH SIDE ELEVATION PROFILE
NOT TO SCALE



**NORTH SIDE DRIVE
MEDIANS PLAN LAYOUT**
SCALE: 1/16" = 1'-0"

BENCHMARK DATA	
PT #123 CL INT FD. L & LA	
CO. ENGR TAG R.	
N 1827170.6235	NAVD '88
E 6522121.8726	RIVERA 2005 ADJ
EL = 198.8 R4	PWFB 1124 PG 2945

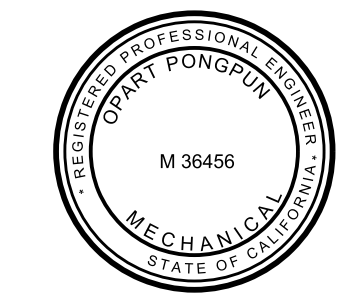


**SOUTH SIDE DRIVE
MEDIANS PLAN LAYOUT**
SCALE: 1/16" = 1'-0"

BENCHMARK DATA	
PT #116 CL PT FD.RRSPK.	
& DPWW PER R2	
N 1826004.3570	NAVD '88
E 6521910.3032	RIVERA 2005 ADJ
EL = 191.95 R6	PWFB 1124 PG 2941

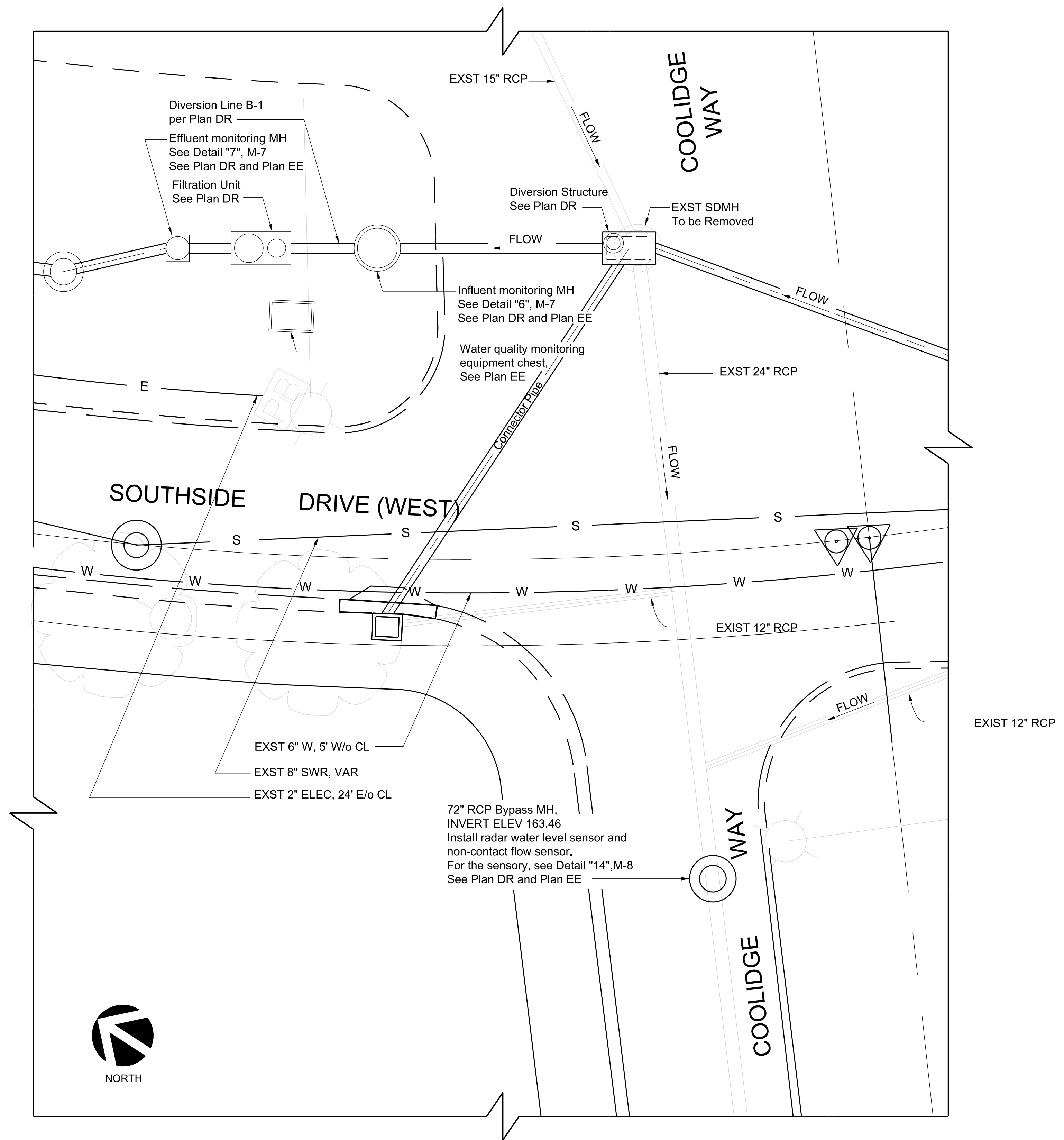
DRAFTER: Shadis A. L. Javier A.
 DESIGNER: Shadis A. L. Javier A.
 CHECKER: OPART P.
 CADD PROJECT FILE NAME:

DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
MECHANICAL PROFILES
 (NORTHSIDE DR AND SOUTHSIDE DR)
 PROJECT ID NO. WMU000010

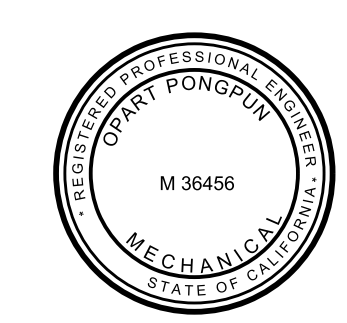
DATE: 05/30/19
 SHEET 3 OF 10



**SOUTHSIDE DR-COOLIDGE WAY
MEDIANS PLAN LAYOUT**
SCALE: 1" = 10'-0"

DRAFTER: Shadis A. L. Javier A.
 DESIGNER: Shadis A. L. Javier A.
 CHECKER: OPART P.
 CADD PROJECT FILE NAME:

DATE	MK	DESCRIPTION

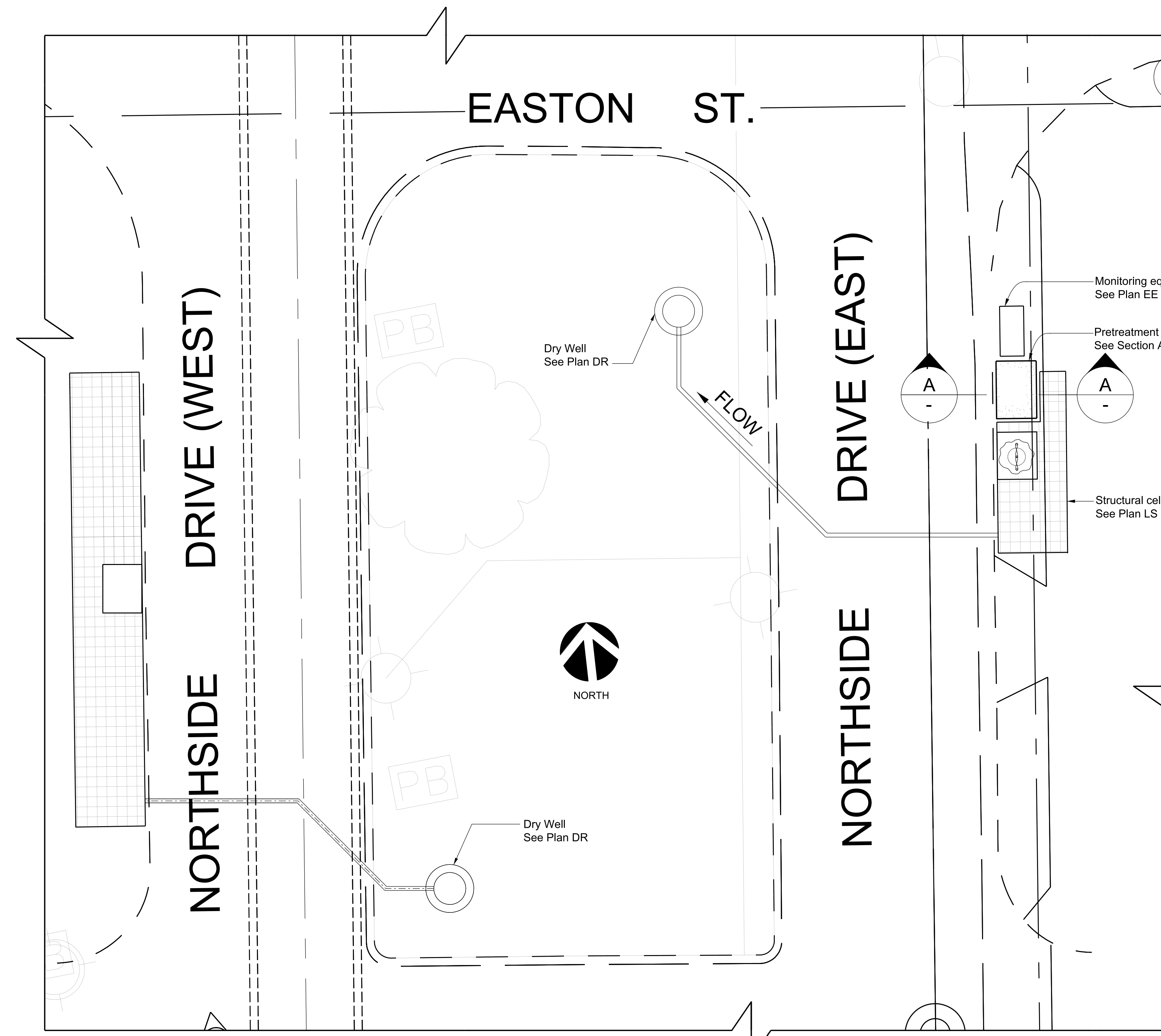


PROJECT ENGINEER: *Grant Pongpud* DATE: 05/30/19

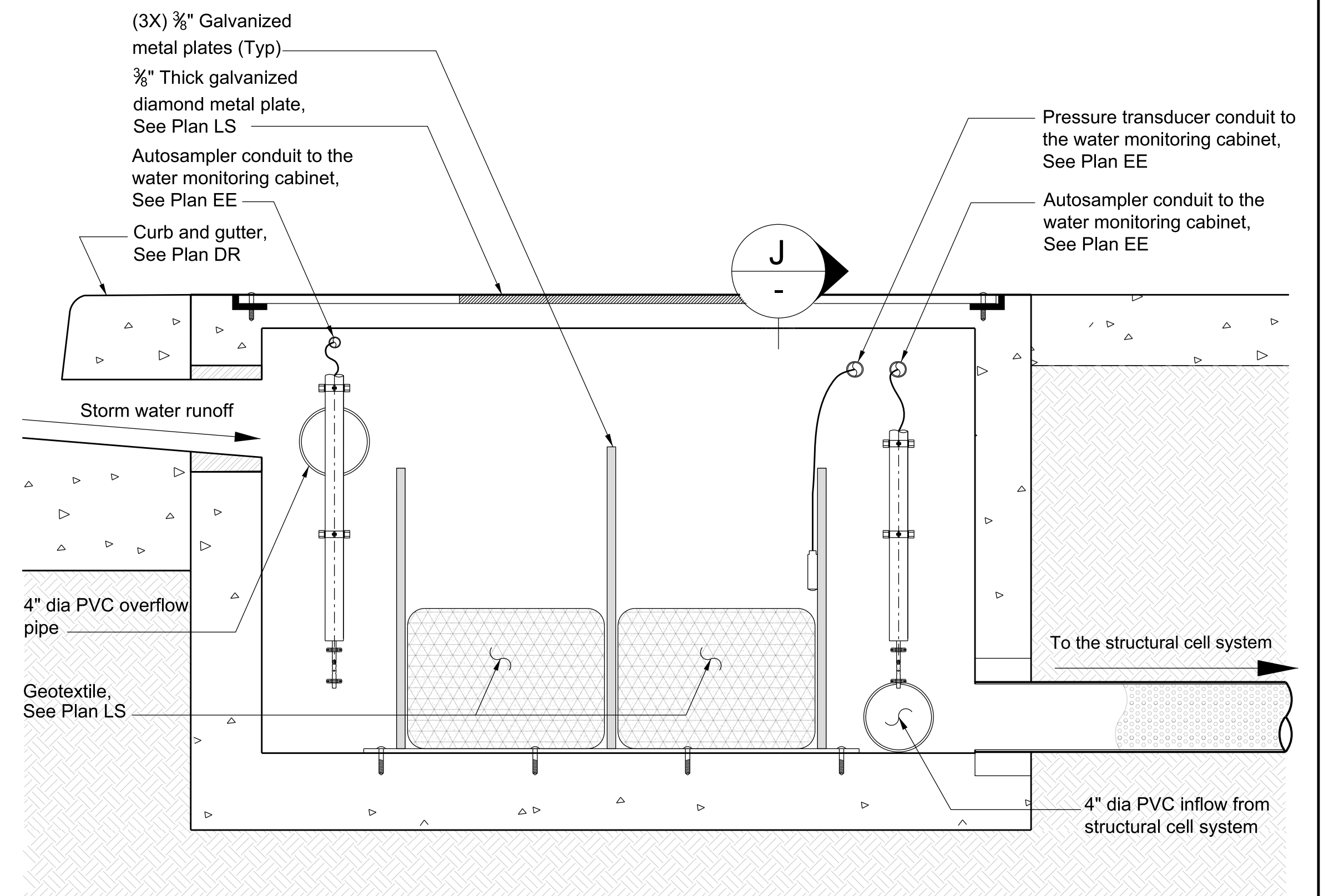
M-4

LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
MECHANICAL SITE PLAN
 (SOUTHSIDE DR AND COOLIDGE WAY)
 PROJECT ID NO. WMU0000010

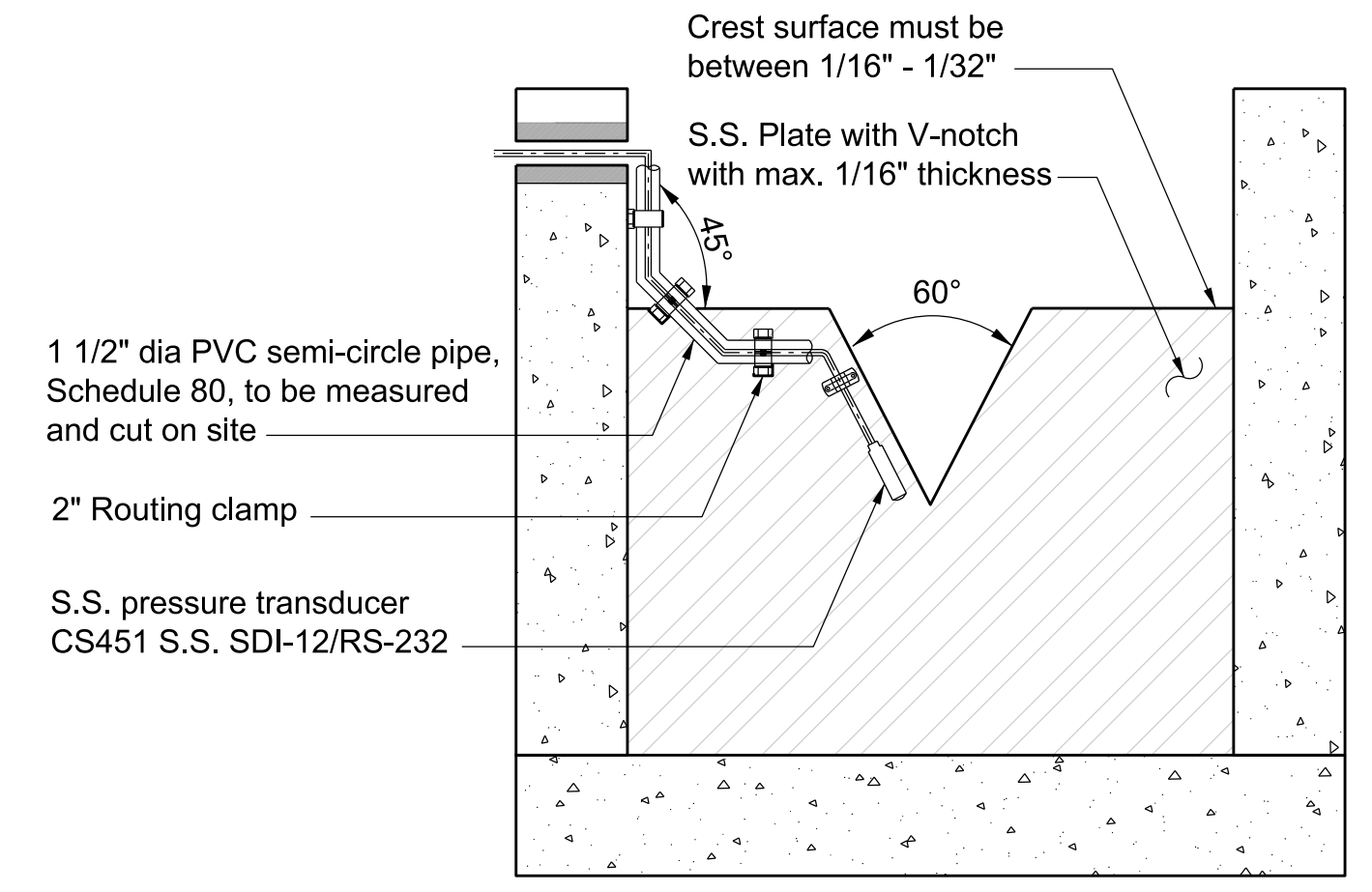
LACFCD INDEX NO.116 - D27 SHEET 4 OF 10



MEDIANS PLAN LAYOUT
NORTHSIDE DRIVE AND EASTON ST.
SCALE: 1/8" = 1'-0"



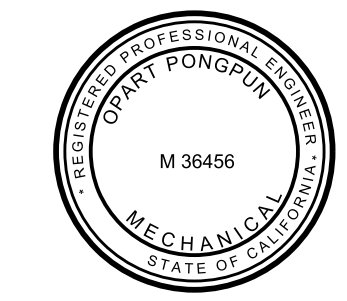
SECTION A-A
PRETREATMENT SYSTEM
NOT TO SCALE



SECTION J-J
S.S. PLATE WITH V-NOTCH AND
PRESSURE TRANSDUCER
NOT TO SCALE

DRAFTER: Shadis A. L. Javier A.
 DESIGNER: Shadis A. L. Javier A.
 CHECKER: OPART P.
 CADD PROJECT FILE NAME

DATE	MK	DESCRIPTION



PROJECT ENGINEER: *Shadis A. L. Javier A.* DATE: 05/30/19

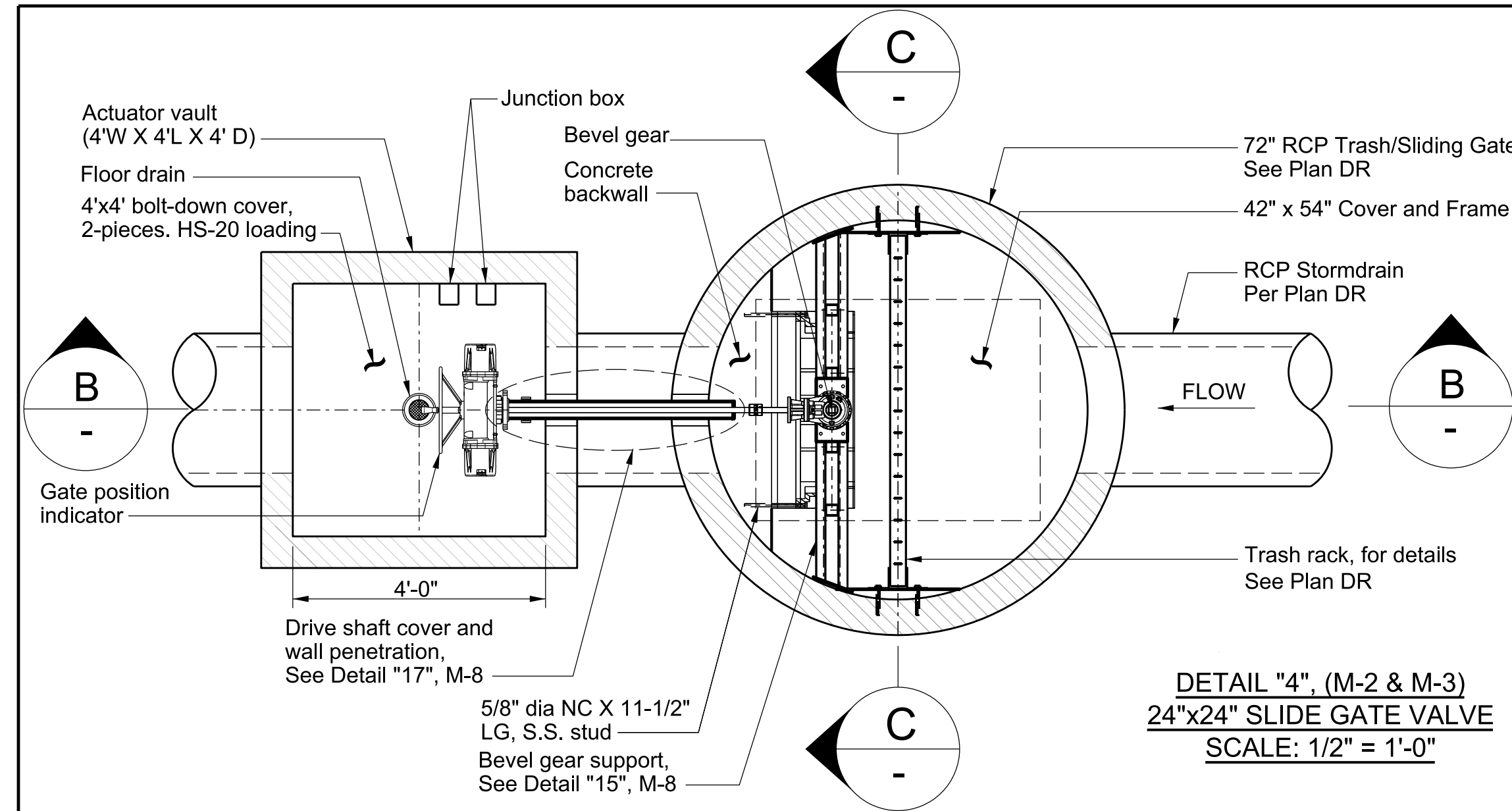
M-5

LOS ANGELES COUNTY PUBLIC WORKS

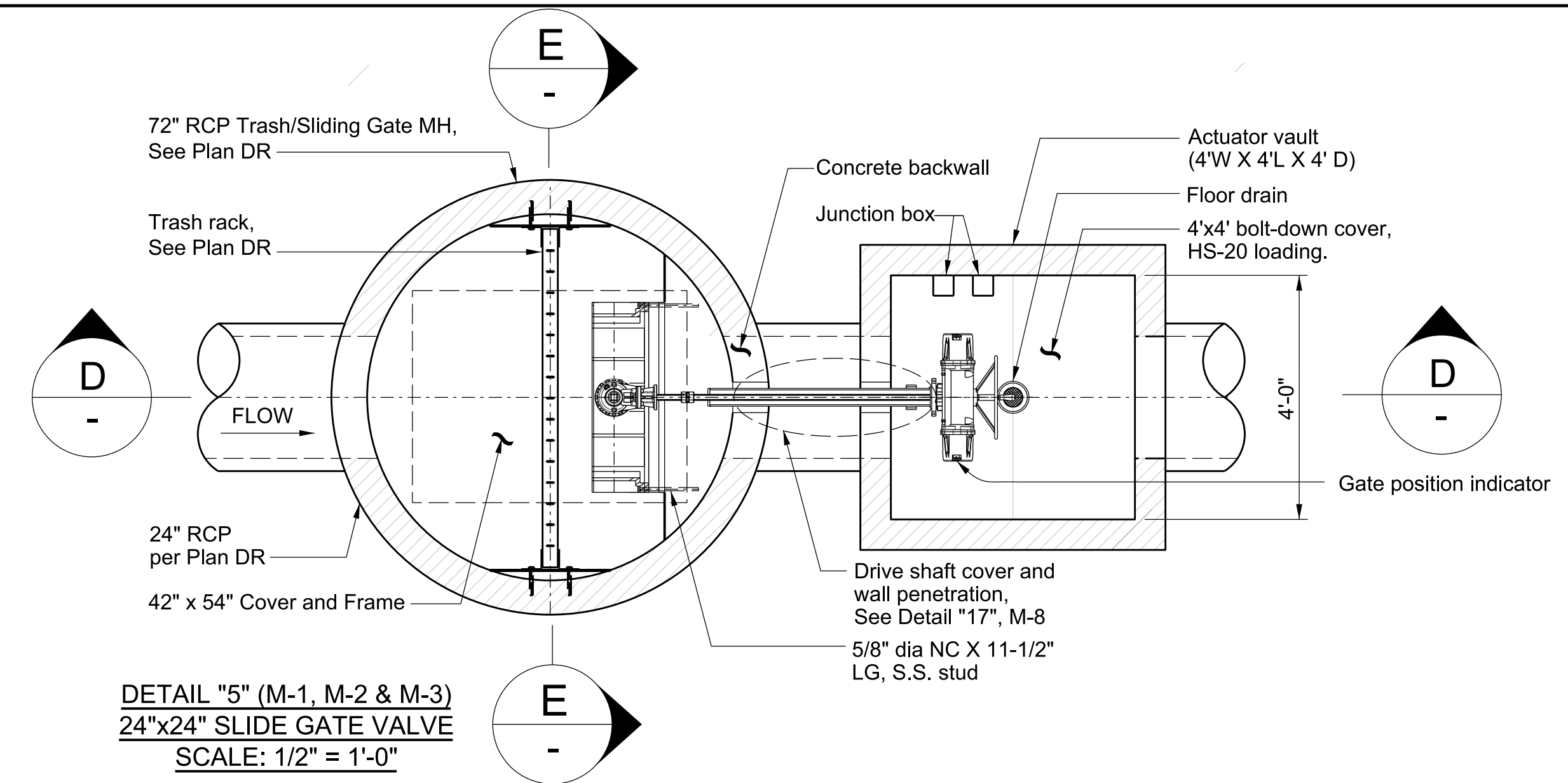
EAST LOS ANGELES
SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

WATER MONITORING SENSORY
(NORTHSIDE DR AND EASTON ST.)
PROJECT ID NO. WMU000010

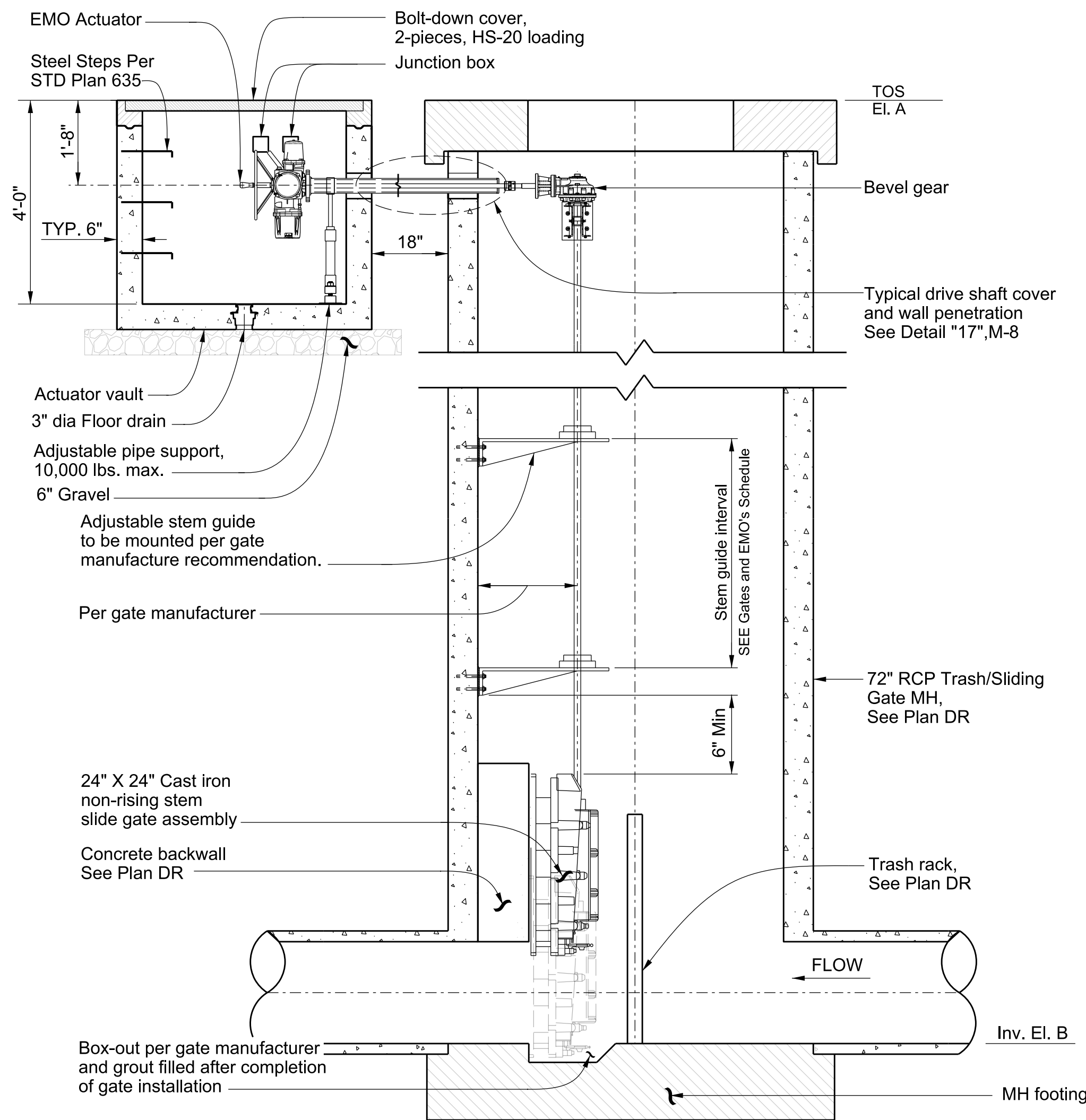
LACFCD INDEX NO.116 - D27 SHEET 5 OF 10



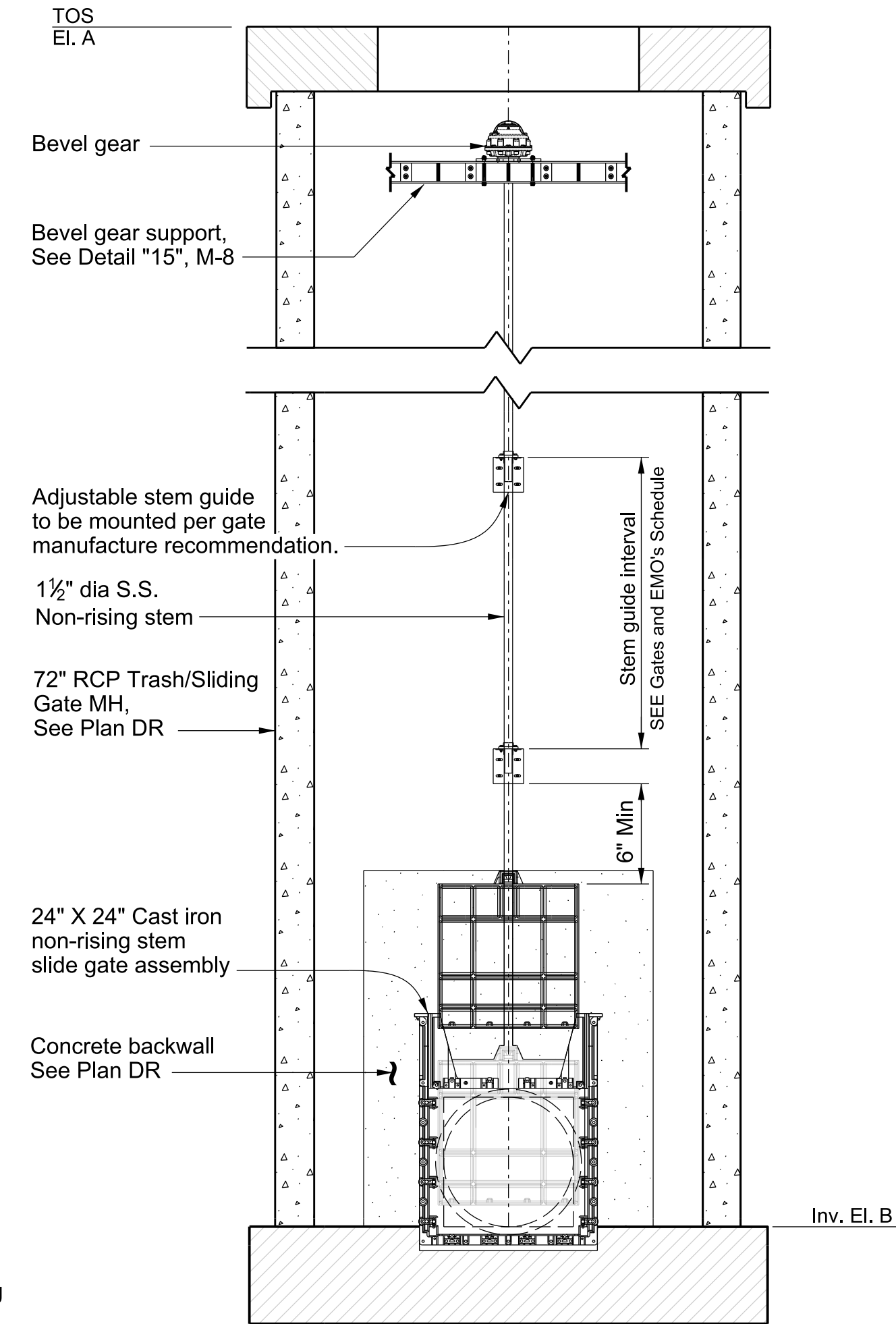
DETAIL "4", (M-2 & M-3)
24"x24" SLIDE GATE VALVE
 SCALE: 1/2" = 1'-0"



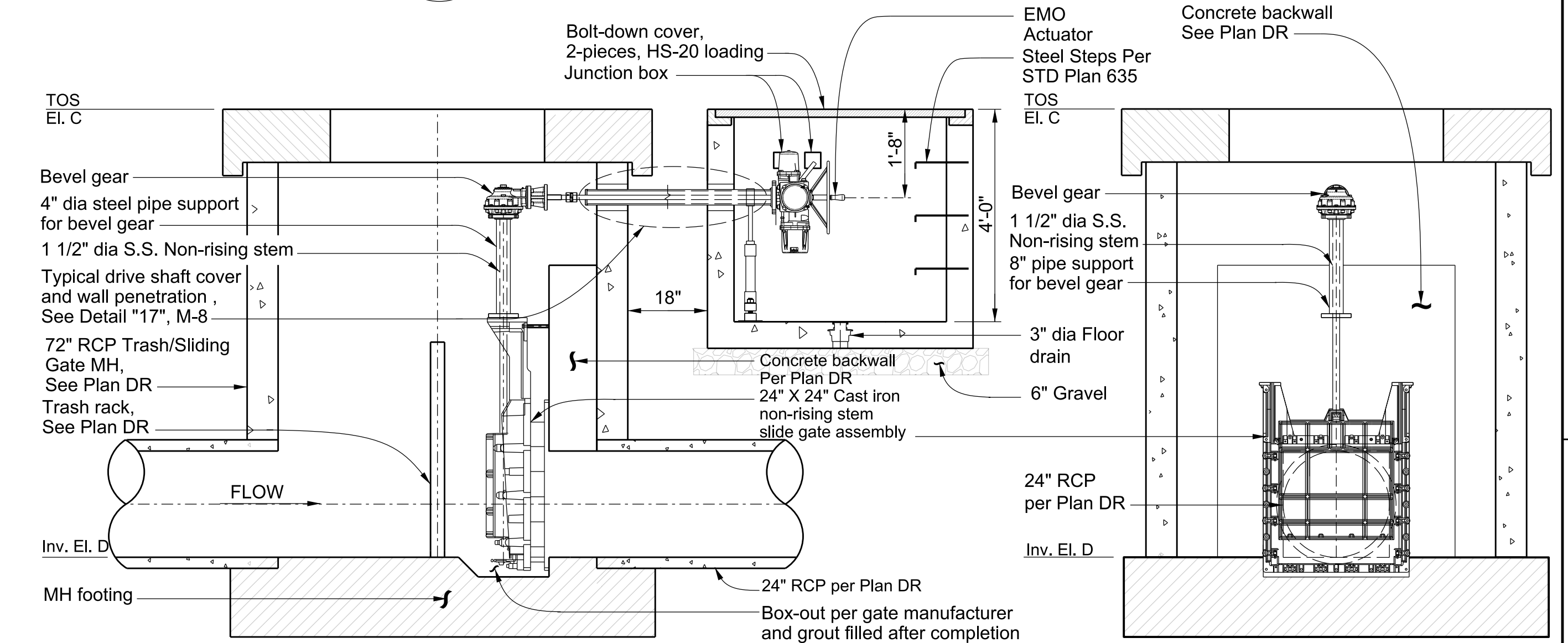
DETAIL "5" (M-1, M-2 & M-3)
24"x24" SLIDE GATE VALVE
 SCALE: 1/2" = 1'-0"



SECTION B-B
NORTHSIDE DRIVE
 SCALE: 1/2" = 1'-0"



SECTION C-C
NORTHSIDE DRIVE
 SCALE: 1/2" = 1'-0"



SECTION D-D
MONTEBELLO PKWY & SOUTHSIDE DRIVE
 SCALE: 1/2" = 1'-0"

SECTION E-E
MONTEBELLO PKWY & SOUTHSIDE DRIVE
 SCALE: 1/2" = 1'-0"

GATES AND EMO'S SCHEDULE

Location	GATES AND ACCESSORIES								EMO			
	Gate Type	Gate Size	Max. Operating Head (ft)	Gate Seating	Gate Height (in)	Stem Dia. (in)	Drive Shaft Length (ft)	Min. Stem Guides	Max. Stem Guide Interval	Motor Power Output (HP)	Output Torque (FT-lb)	Thrust Rating (Lb.)
Northside	Cast-iron slide gate	24"x24"	12	Seating	24	1.5	*3.5	2	5	0.66	55	8000
Southside	Cast-iron slide gate	24"x24"	10	Seating	24	1.5	*3.5	1	5	0.66	55	8000
Montebello Pkwy	Cast-iron slide gate	24"x24"	8	Seating	24	1.5	*3.5	1	5	0.66	55	8000

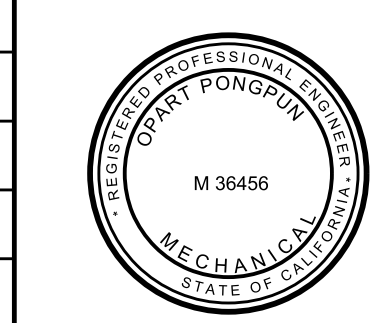
Note: (*) Drive shaft length to be verified by the contractor prior to fabrication.

Location	ELEVATION			
	A	B	C	D
Northside Elevation	198.59	186.12	-	-
Southside Elevation	-	-	191.46	181.52
Montebello PKWY Elevation	-	-	182.53	173.58

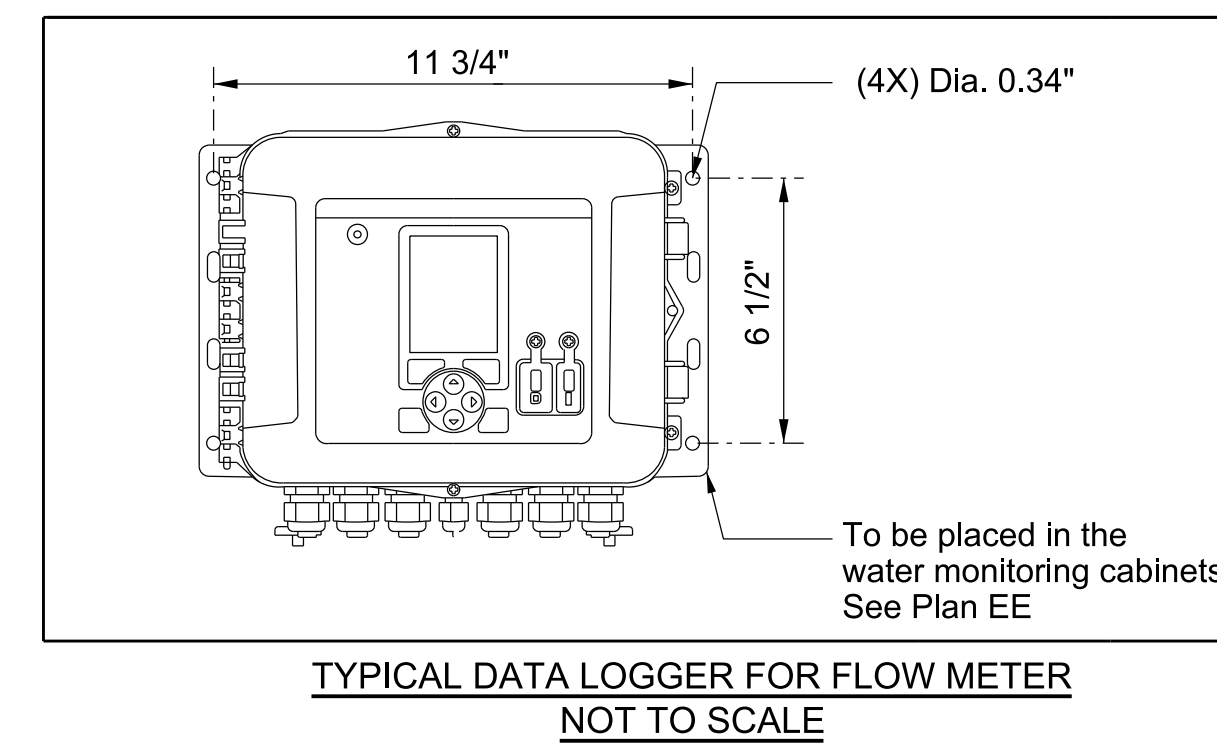
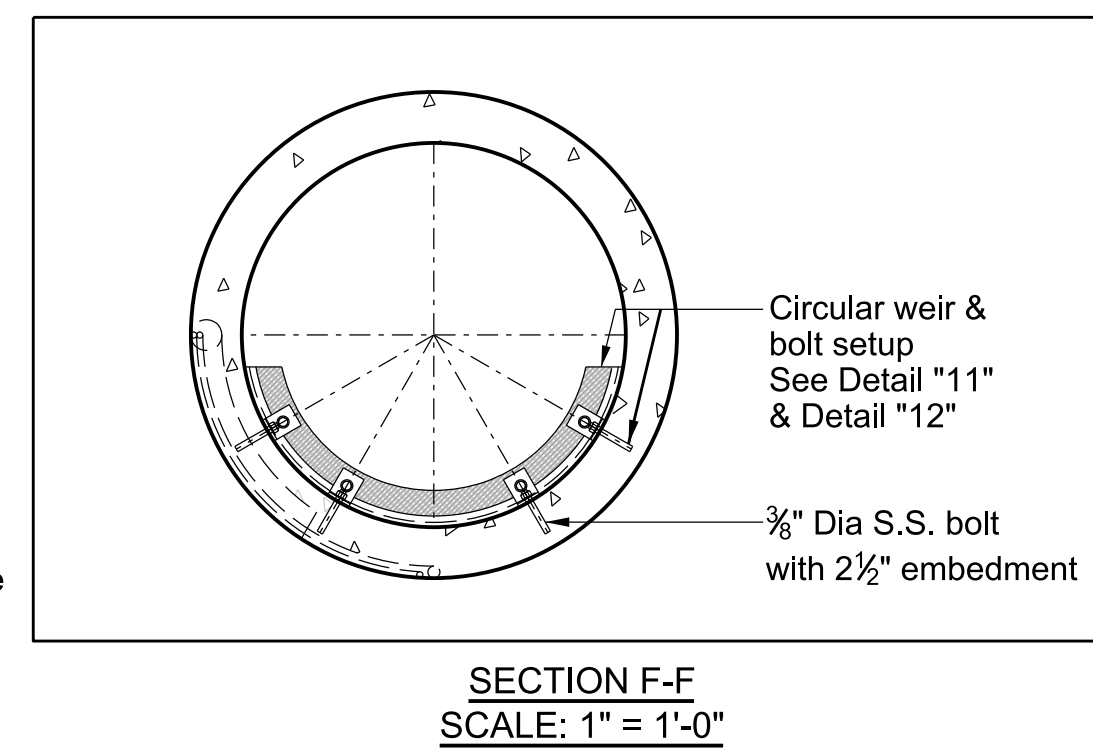
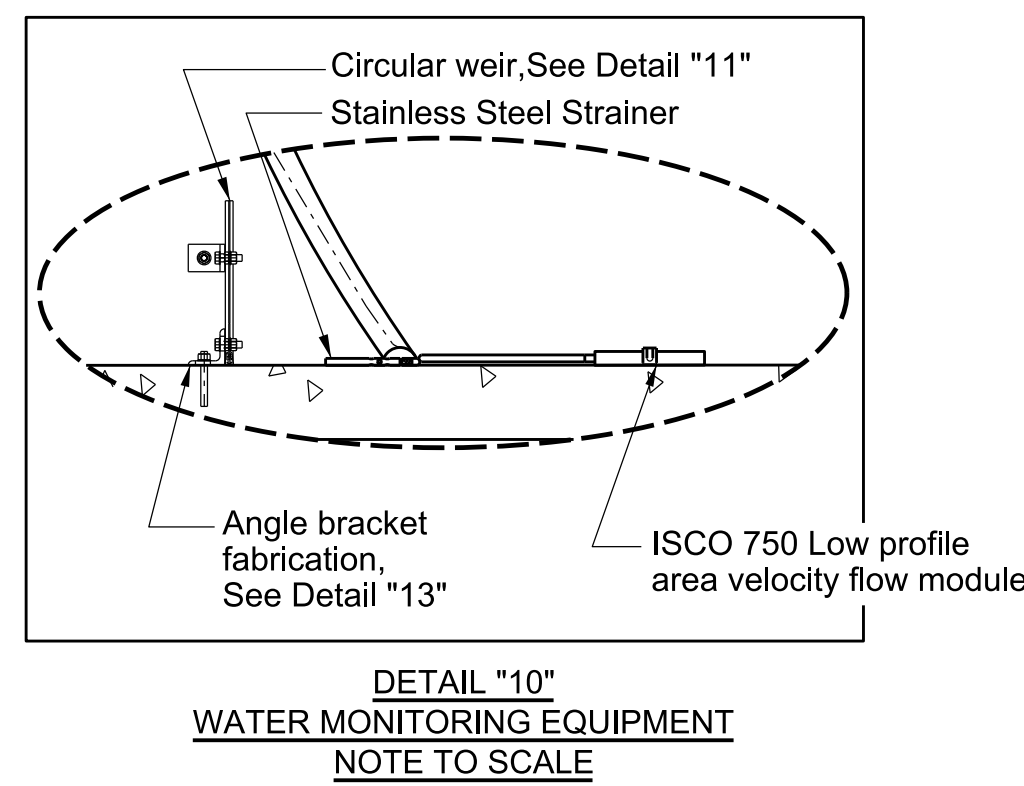
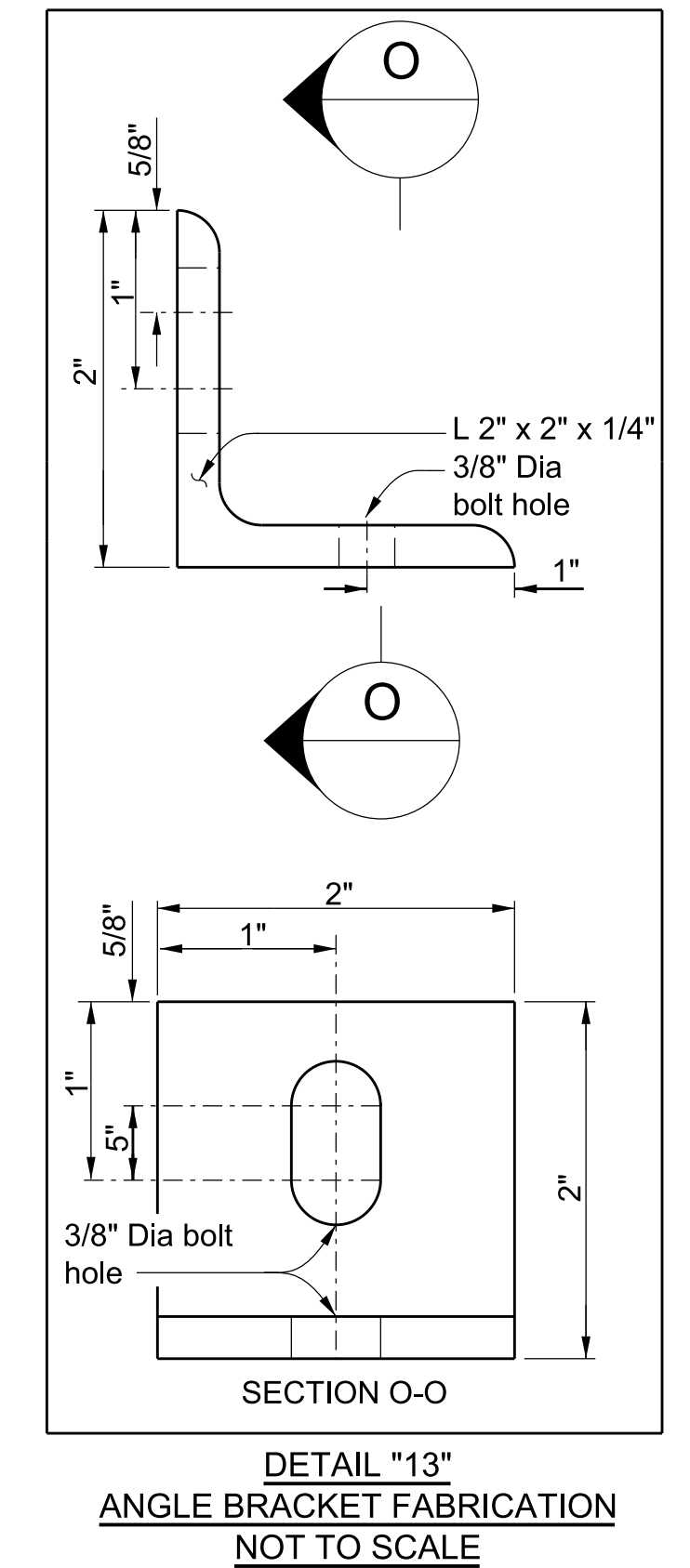
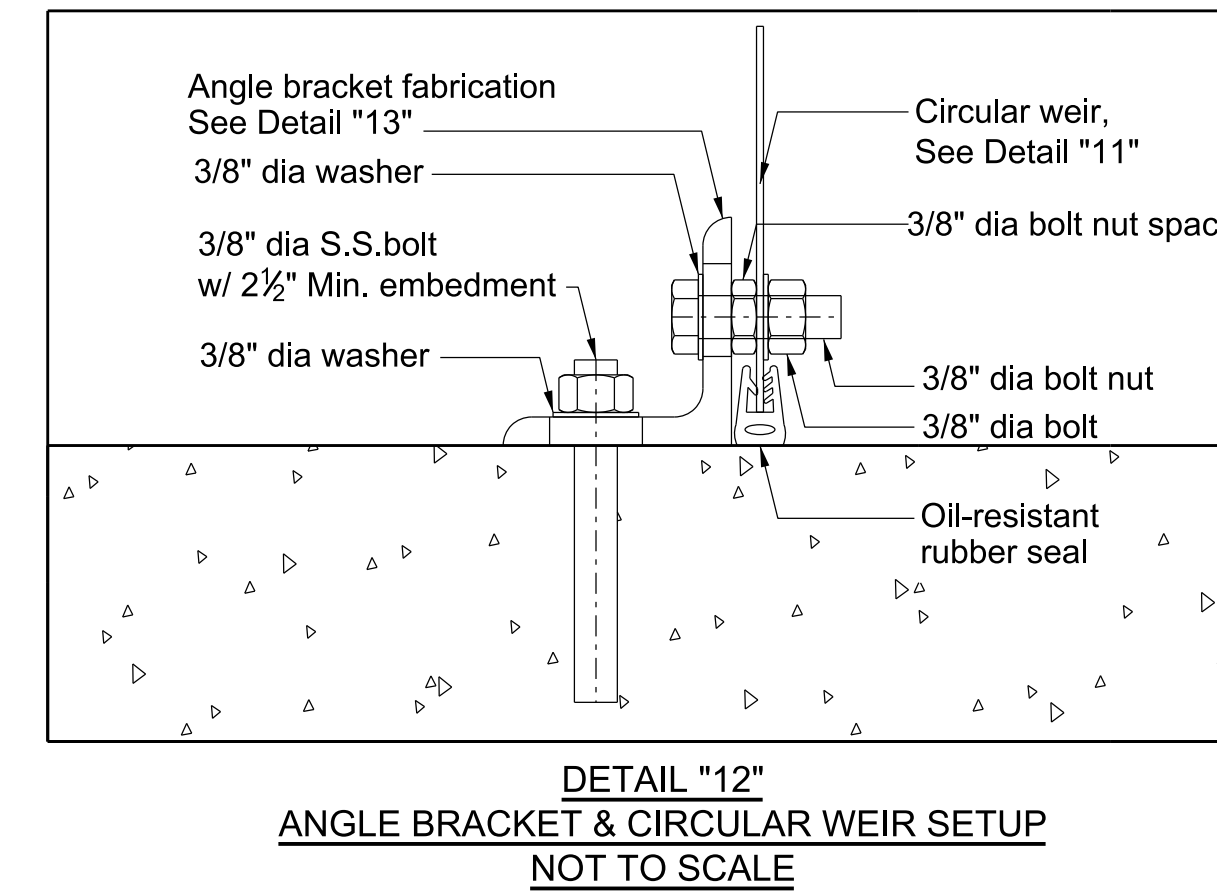
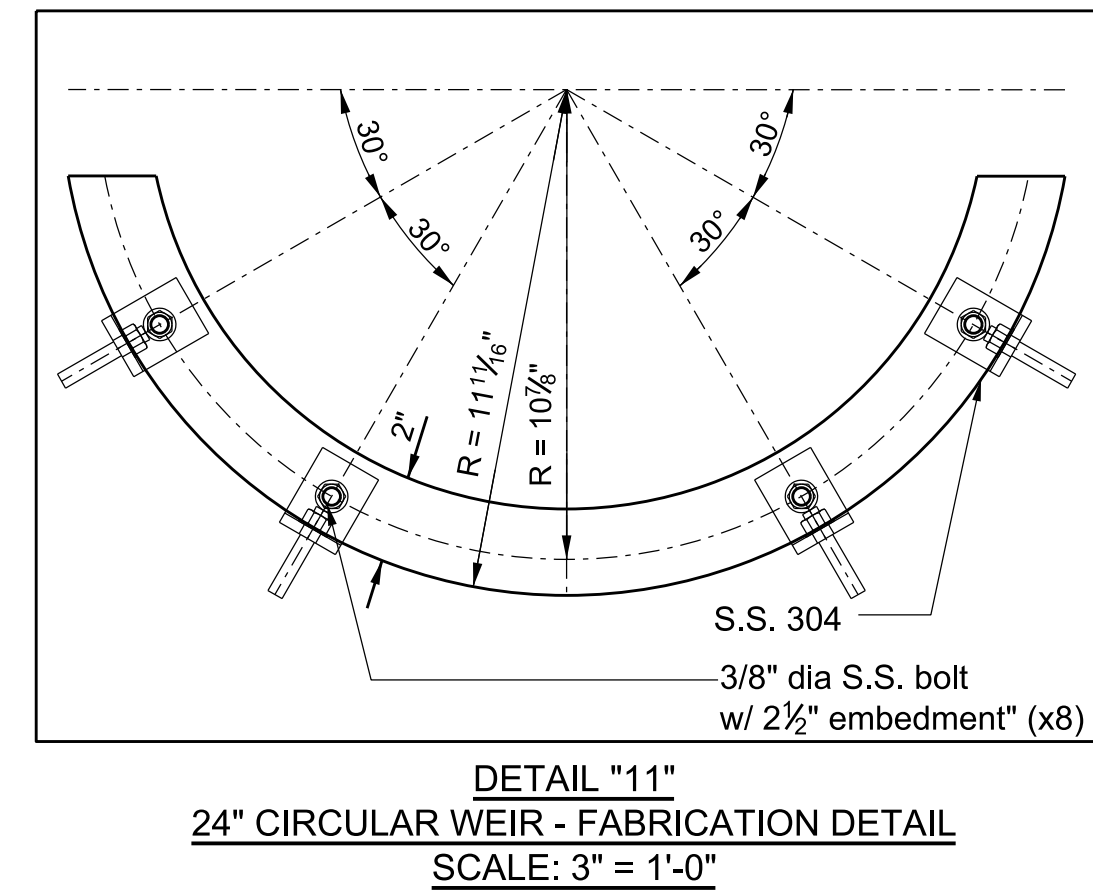
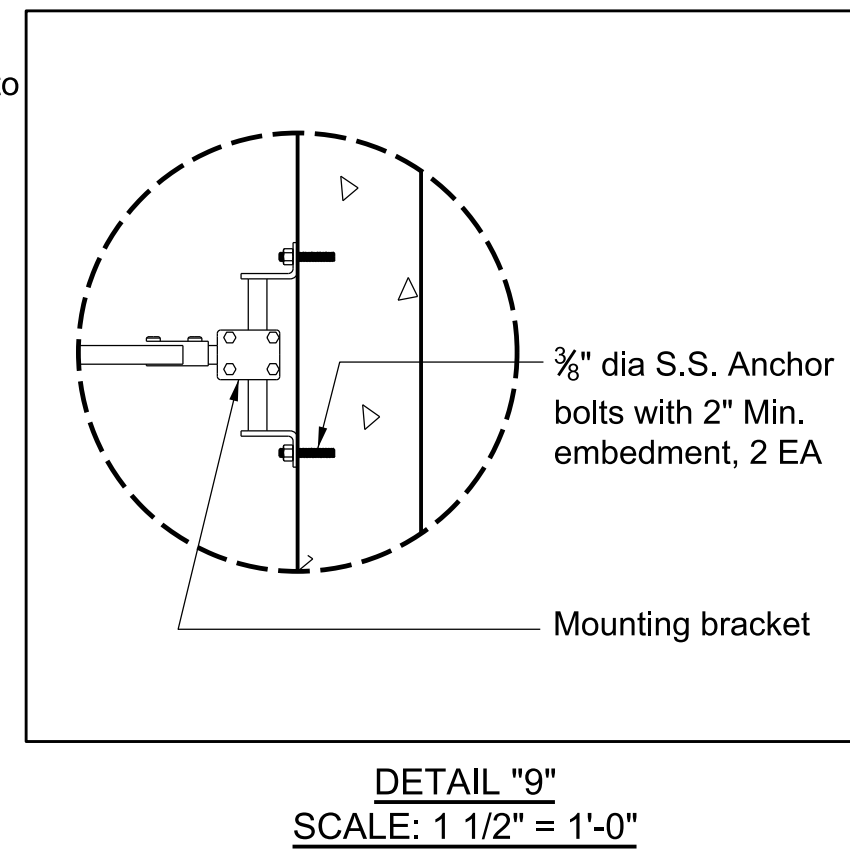
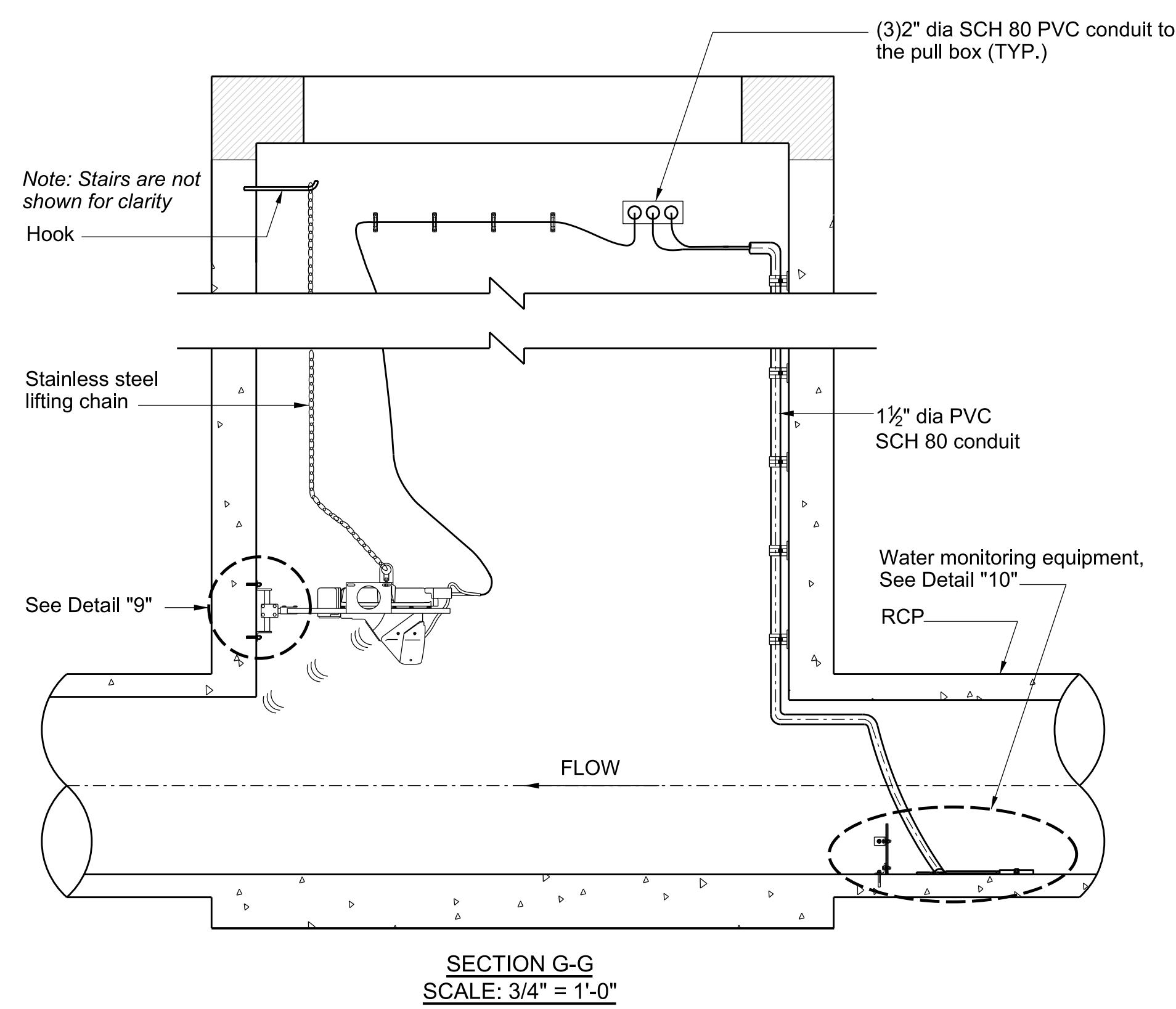
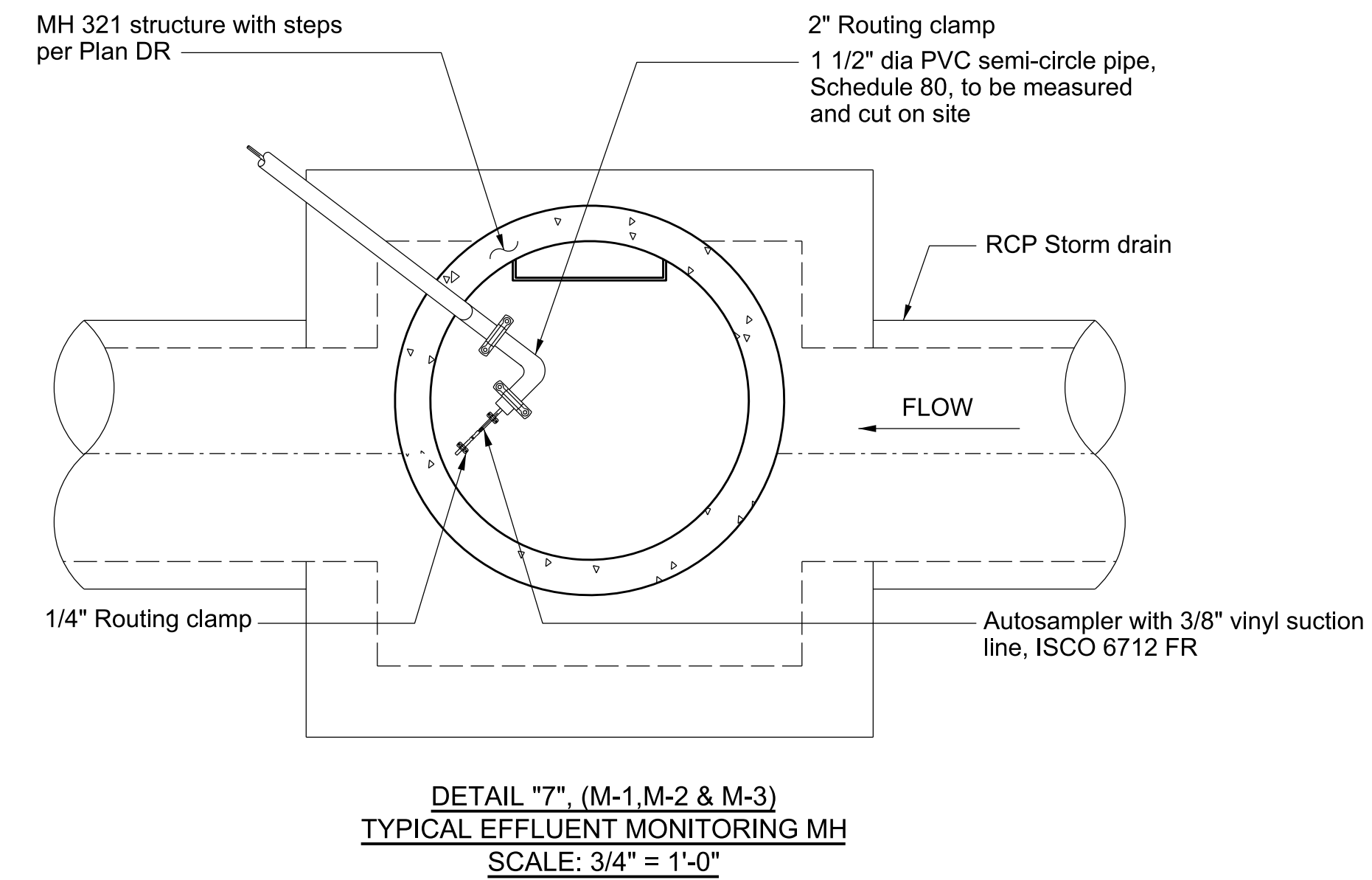
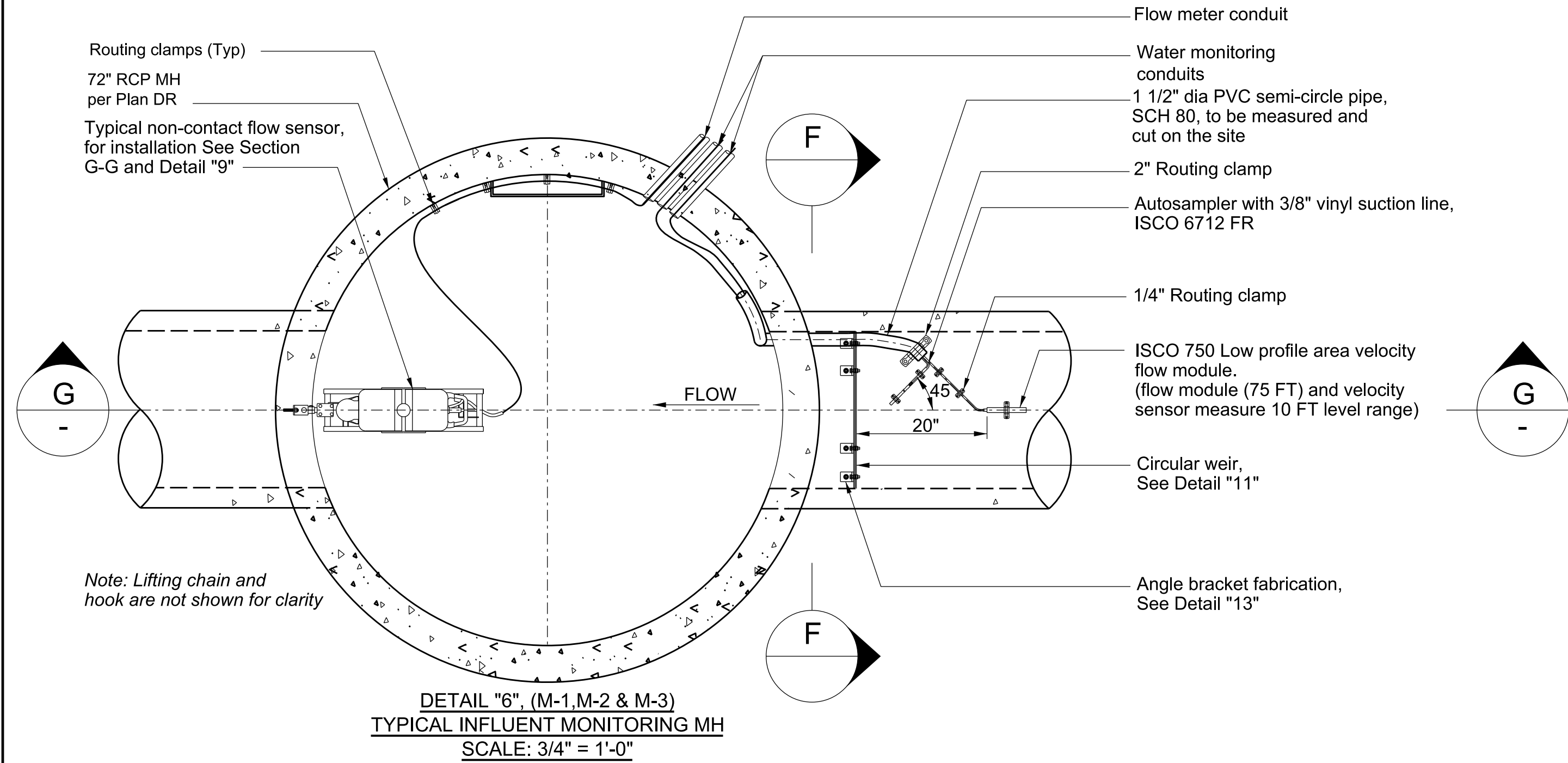
CADD PROJECT FILE NAME
 CHECKER
 DESIGNER
 DRAFTER

OPART P.
 Scharis A. L. Javier A.
 Scharis A. L. Javier A.

DATE	MK	DESCRIPTION
REVISIONS		

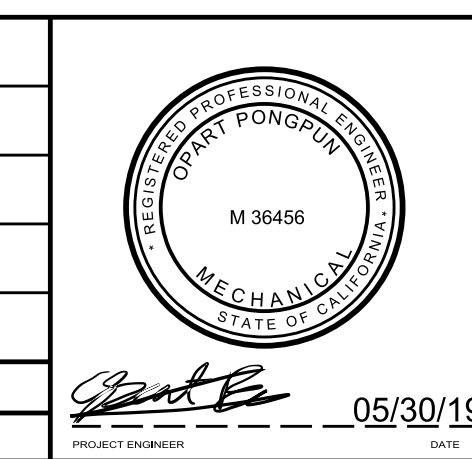


LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
SLIDE GATE AND ELECTRIC MOTOR OPERATOR DETAILS
 PROJECT ID NO. WMU000010
 LACFCDD INDEX NO.116 - D27 SHEET 6 OF 10

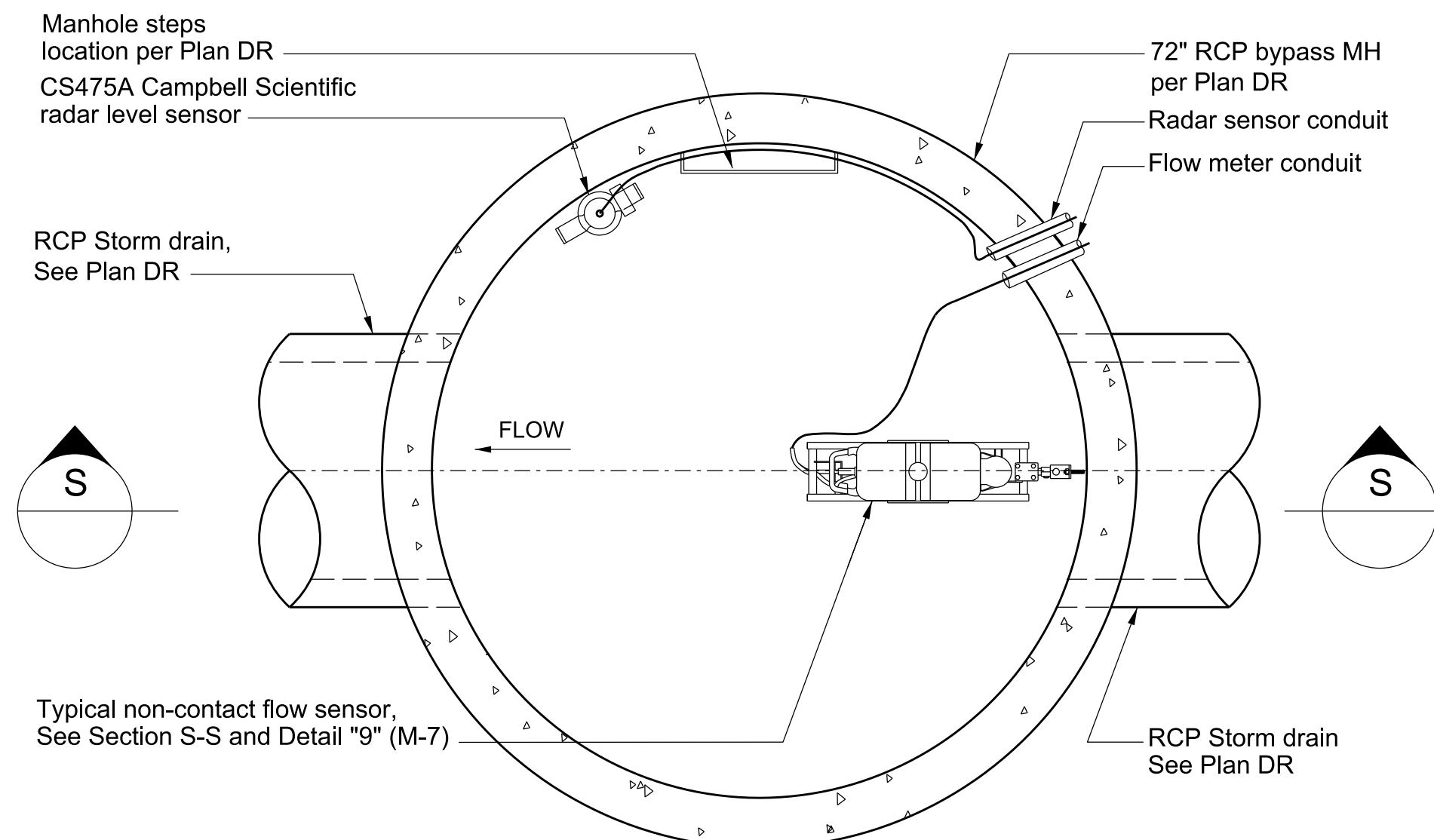


DRAFTER: Shadis A. L. Javier A.
 DESIGNER: Shadis A. L. Javier A.
 CHECKER: OPART P.
 CADD PROJECT FILE NAME:

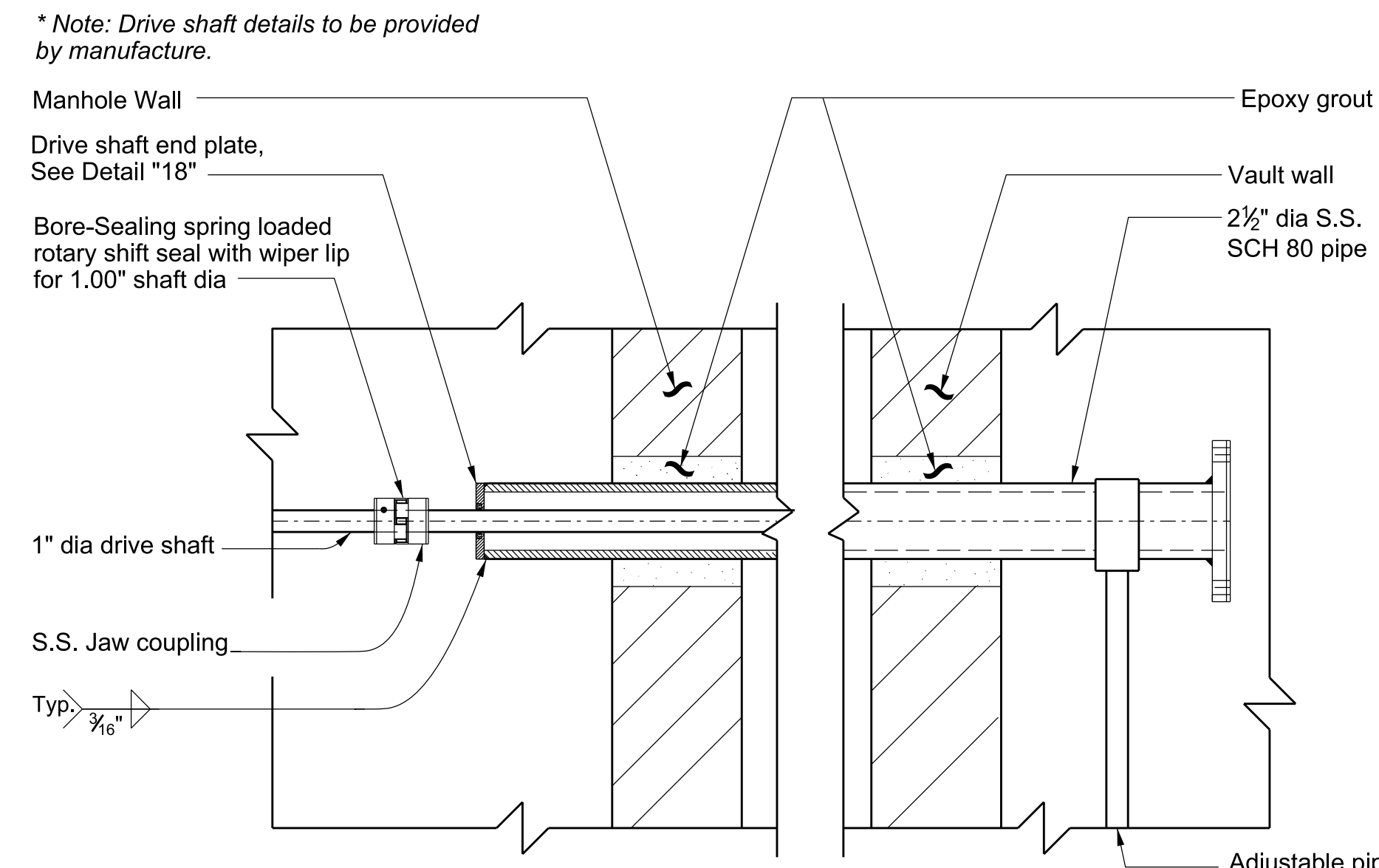
DATE	MK	DESCRIPTION



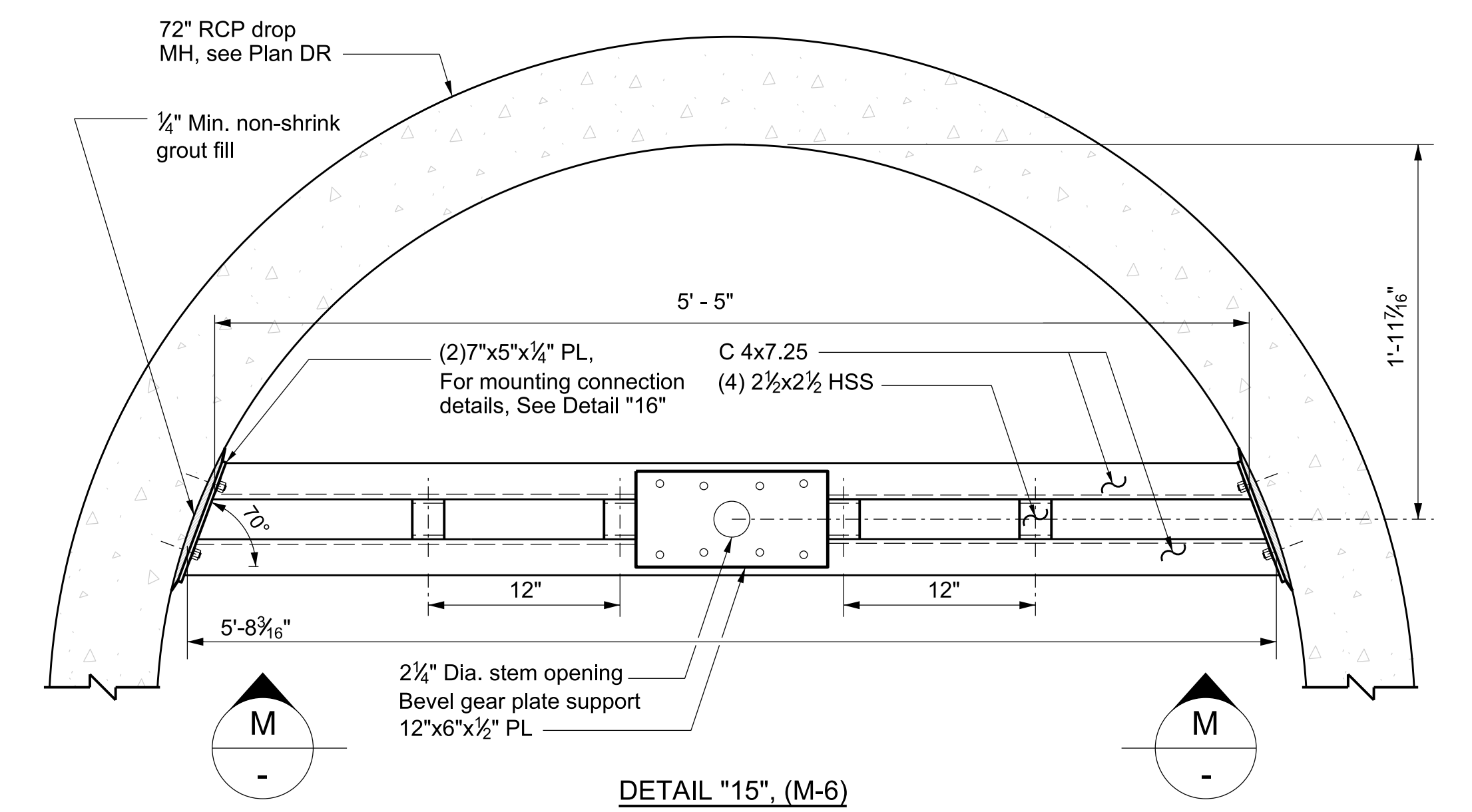
LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
DETAILS SHEET 1
 PROJECT ID NO. WMU000010
 LACFCD INDEX NO.116 - D27 SHEET 7 OF 10



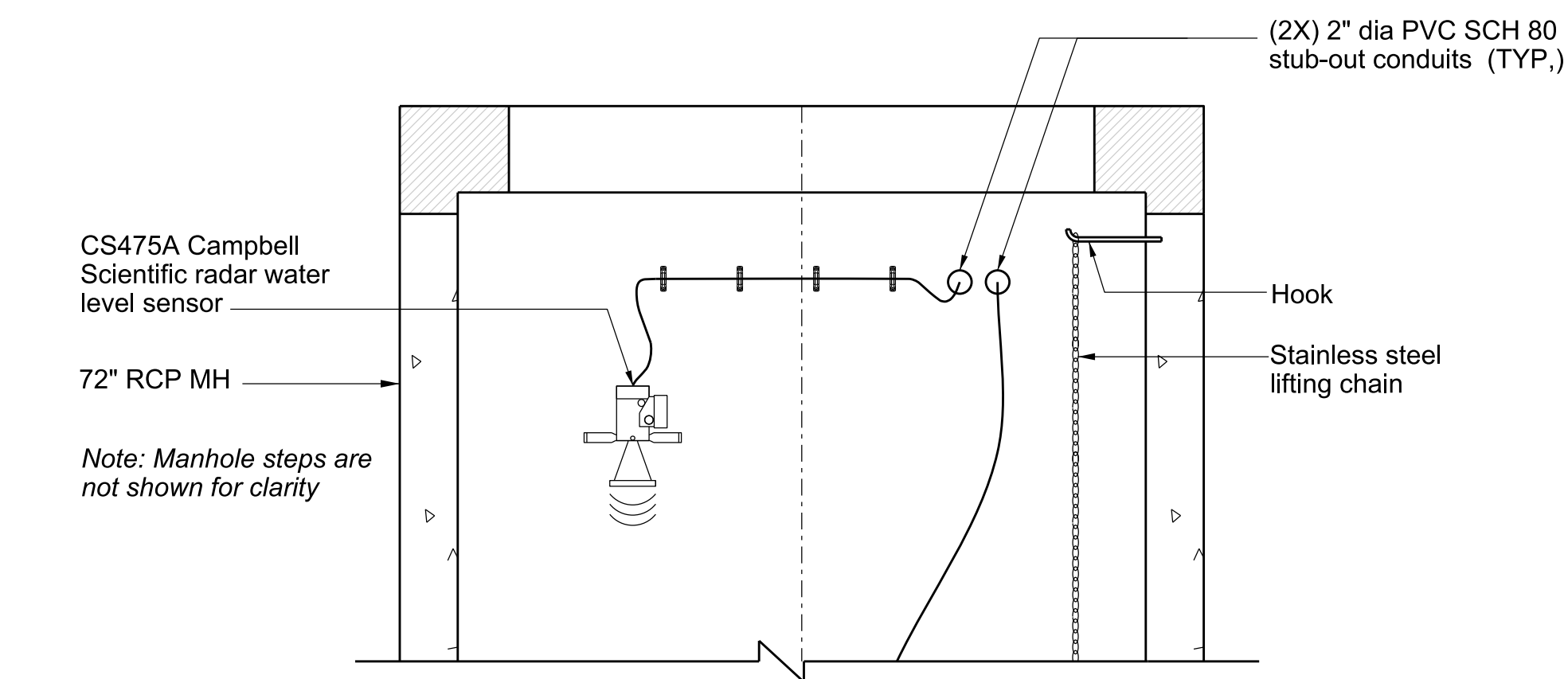
DETAIL "14", (M-1 & M-4)
MONTEBELLO & COOLIDGE WAY, SENSORY INSTALLATION
 SCALE: 3/4" = 1'-0"



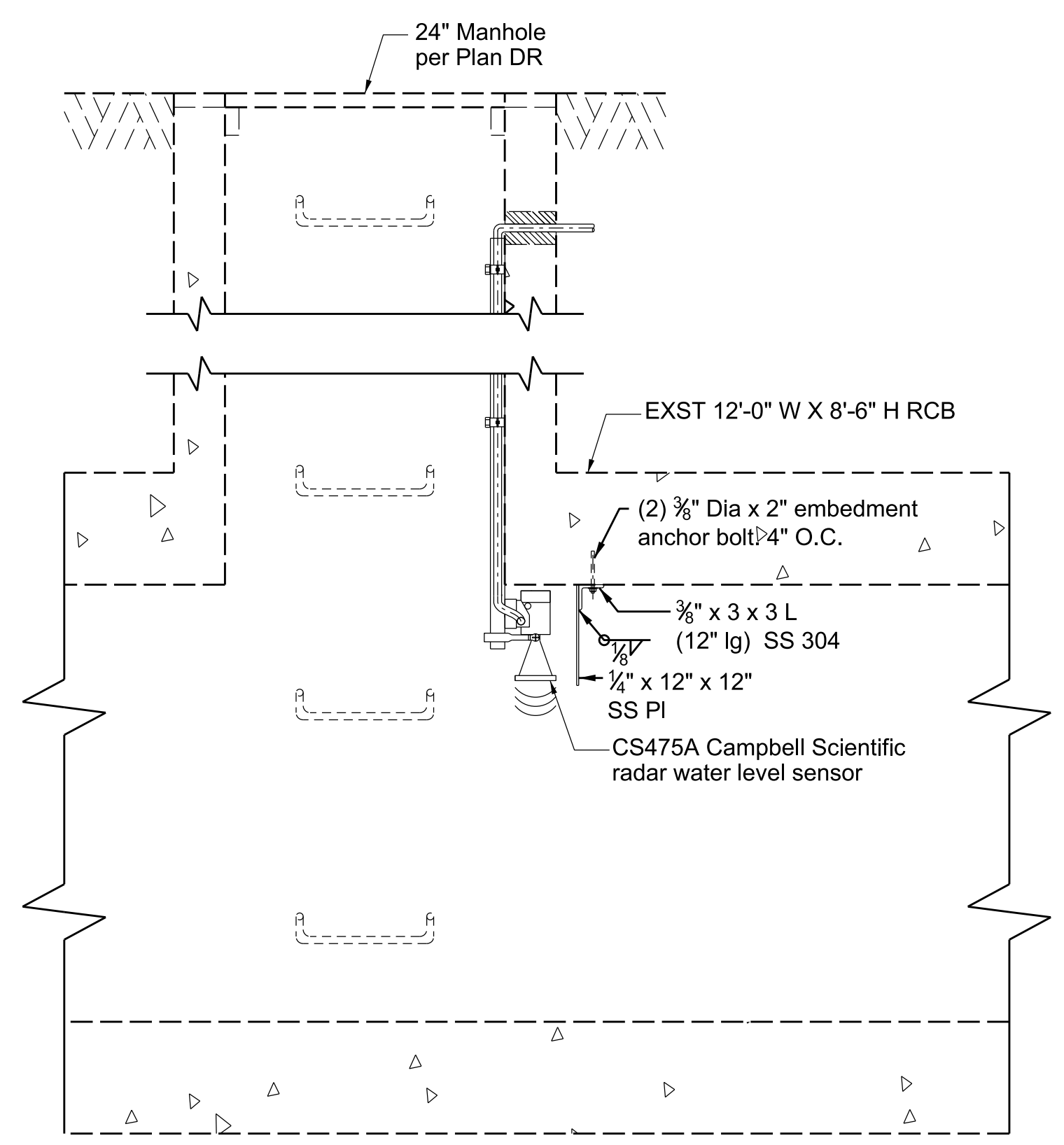
DETAIL "17", (M-6)
TYPICAL DRIVE SHAFT COVER AND WALL PENETRATION DETAILS
 NOT TO SCALE



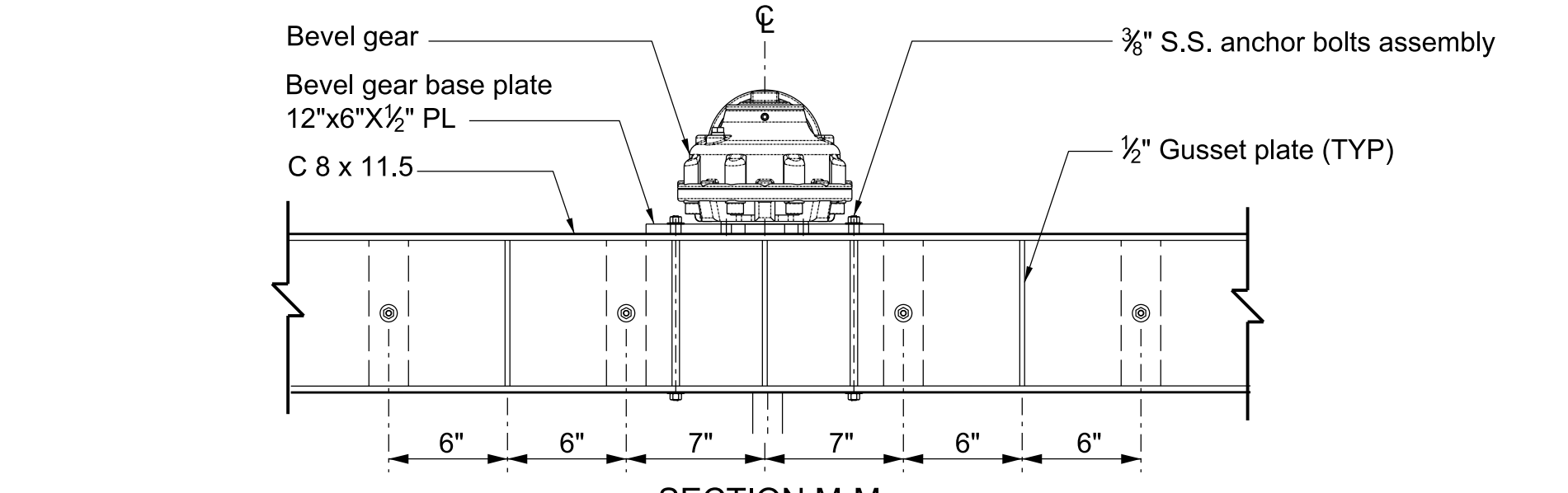
DETAIL "15", (M-6)
BEVEL GEAR SUPPORT
 SCALE: 1 1/2" = 1'-0"



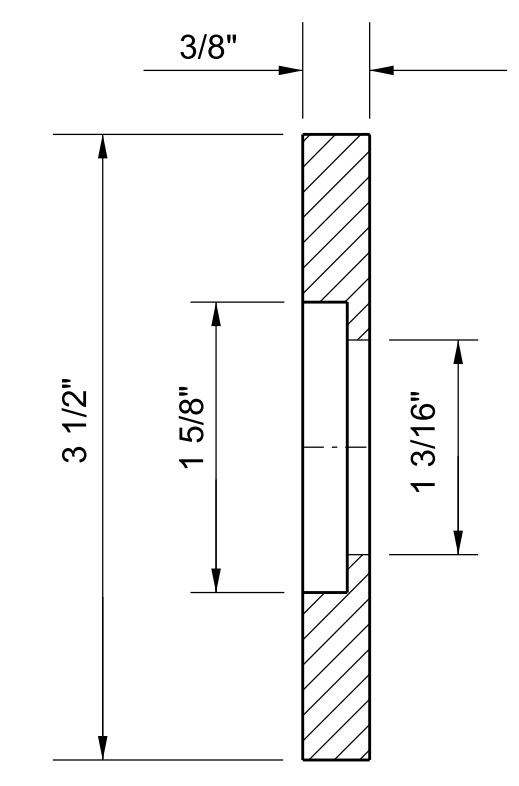
SECTION S-S
TYPICAL NON-CONTACT FLOW SENSOR AND RADAR WATER LEVEL SENSOR INSTALLATION
 SCALE: 3/4" = 1'-0"



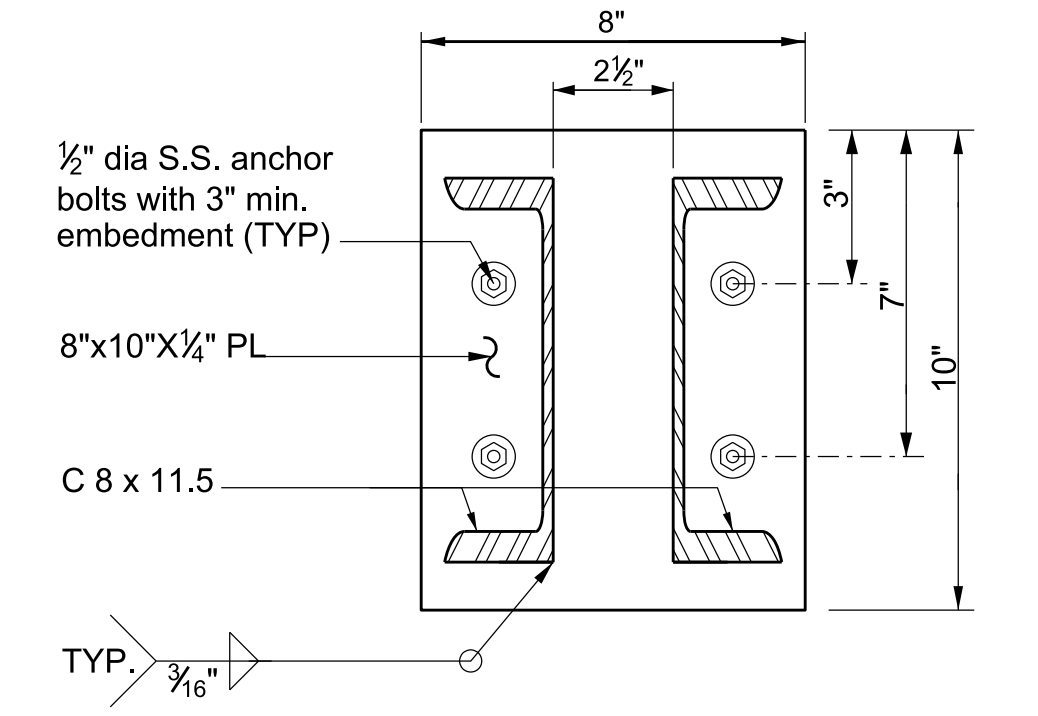
SECTION X-X, (M-2)
OLYMPIC BOULEVARD SENSOR INSTALLATION
 NOT TO SCALE



SECTION M-M
BEVEL GEAR SUPPORT
 SCALE: 1 1/2" = 1'-0"



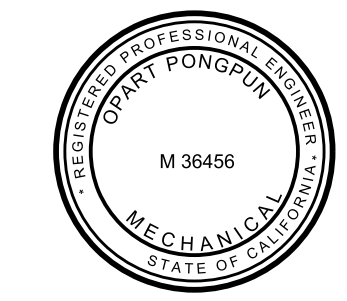
DETAIL "18"
DRIVE SHAFT COVER END PLATE
 NOT TO SCALE



DETAIL "16"
BEVEL GEAR SUPPORT MOUNTING
 SCALE: 3" = 1'-0"

DRAFTER: Shadis A. L. Javier A.
 DESIGNER: Shadis A. L. Javier A.
 CHECKER: OPART P.
 CADD PROJECT FILE NAME:

DATE	MK	DESCRIPTION

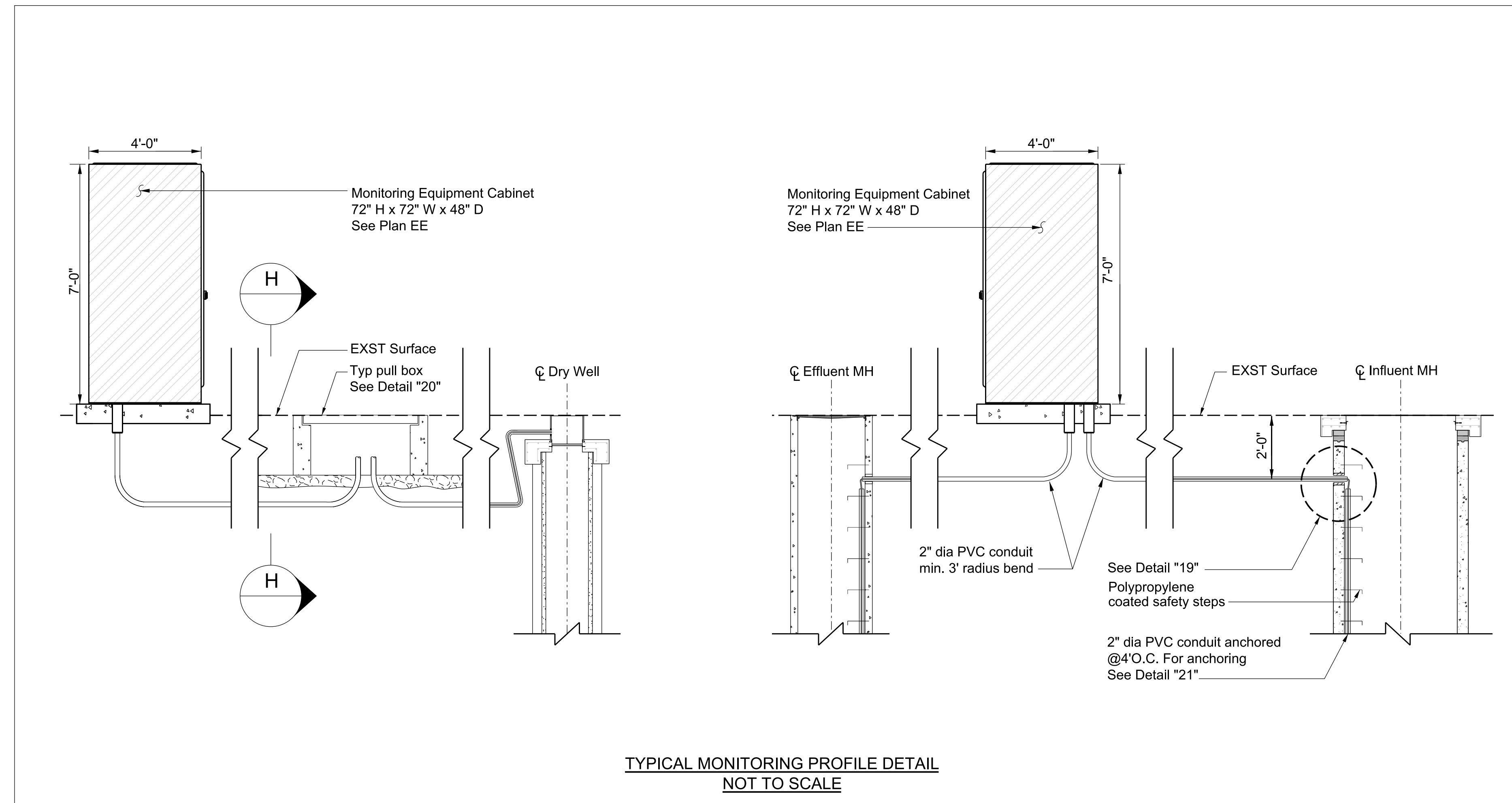


LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
DETAILS SHEET 2
 PROJECT ID NO. WMU000010
 LACFCD INDEX NO.116 - D27 SHEET 8 OF 10

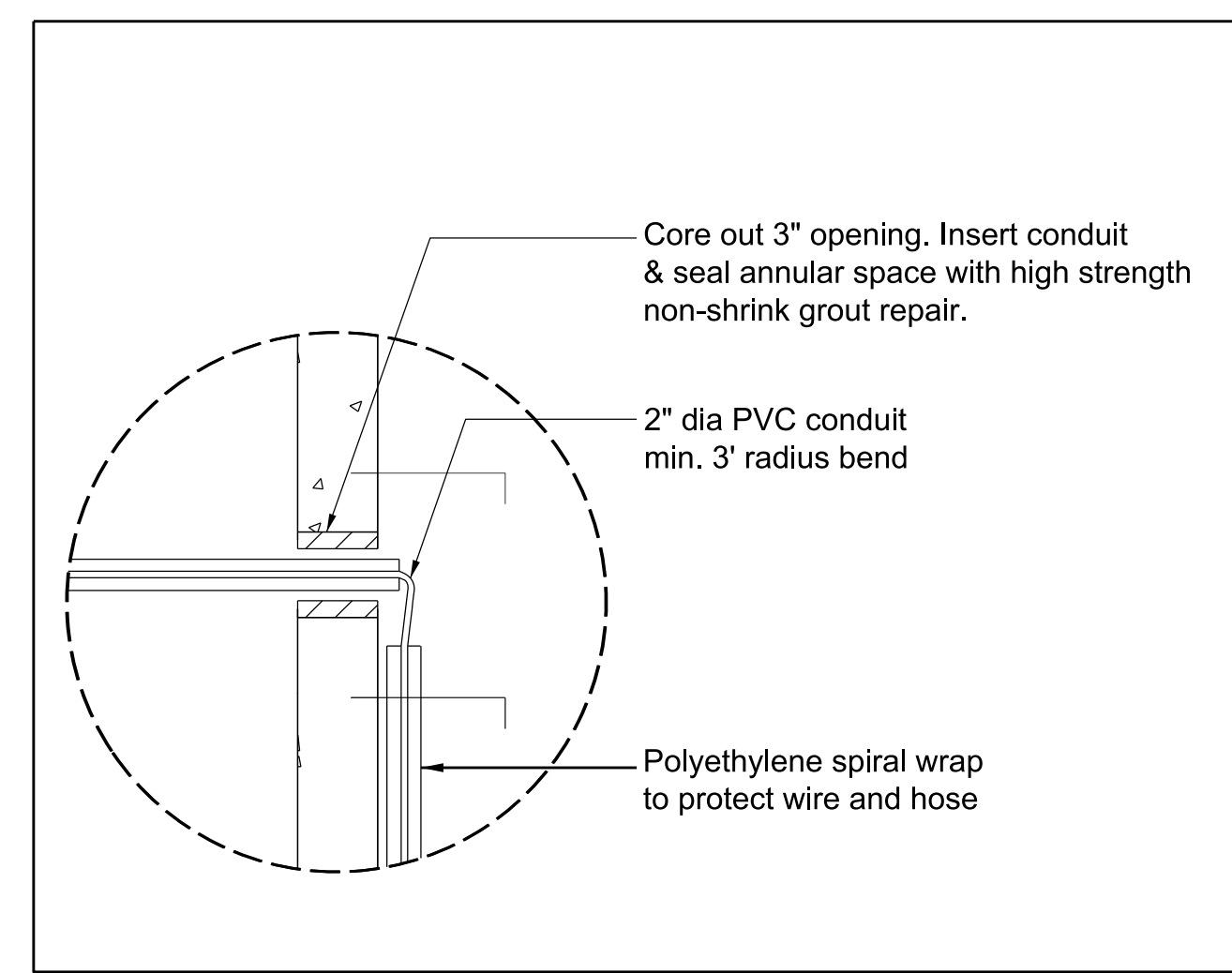
WATER QUALITY MONITORING WELL EQUIPMENT AND ACCESSORIES

Item no.	Description	Quantity	Model/Part Number	Vendor/Quote Source
1	ISCO 6712FR Refrigerated Sampler (120V, 60Hz)	4	68-6710-072	Teledyne ISCO/MCRT
2	ISCO 750 Low Profile Area Velocity Flow Module (75 FT) and Low Profile Velocity Sensor Measure 10 FT Level Range	4	60-9004-051	Teledyne ISCO/MCRT
3	ISCO 4 Bottle Config Kit for 6712FR	4	60-5304-606	Teledyne ISCO/MCRT
4	ISCO 6712ci Modem (cellular) - CDMA w/ antenna	1	68-6710-148	Teledyne ISCO/MCRT
5	ISCO Sensor Mounting Plate	4	60-3253-077	Teledyne ISCO/MCRT
6	ISCO Stainless Steel Strainer (3/8 inch)	11	69-2903-138	Teledyne ISCO/MCRT
7	ISCO 3/8 inch vinyl suction line - 200 feet, SPA 491.	6	60-5304-491	Teledyne ISCO/MCRT
8	ISCO Tubing Coupler, 3/8 inch. One-piece, clamp less coupler made of stainless steel	11	60-3709-002	Teledyne ISCO/MCRT
9	ISCO SPA 1026-12 foot length (cut to length cable; base price + 1.19 per foot)	6	60-5314-026	Teledyne ISCO/MCRT
10	ISCO 6712C Portable Sampler (AC Powered)	7	68-6710-071	Teledyne ISCO/MCRT
11	Model 914 Battery-Backed Power Packs	2	68-3004-130	Teledyne ISCO/MCRT
12	ISCO 12-Bottle Configuration for standard compact base w/ 12 glass 375-mL round bottles and PTFE lined caps, bottle retaining ring, carrier, and two discharge tubes.	5	68-6700-024	Teledyne ISCO/MCRT
13	ISCO 720 Module and submerged probe with 75 FT cable, measures 10 FT Level Range	1	68-6700-068	Teledyne ISCO/MCRT
14	ISCO Model 948 Lead-Acid Battery. Rechargeable, 12VDC, 45amp-hours	5	68-3000-948	Teledyne ISCO/MCRT
15	CR310 Data Logger w/WIFI	3	CR310-WIFI	Campbell Scientific/IEI
16	Radar Water Level Sensor, 114.8 ft Max	3	CS475A-L50-PT	Campbell Scientific/IEI
17	Texas Electronics Rain Gauge 0.01 inch (0.254 mm) Tip w/6 inches Orifice (w/ 25ft cable)	1	TE525-L25-PT	Campbell Scientific/IEI
18	Rain Gage Mounting Kit	1	CM270	Campbell Scientific/IEI
19	Enclosures for battery & data logger ENC16/18 Weather Resistant 16 x 18 inch (can be mounted on a 4-10 inches pole)	3	ENC16/18-ES-SB-PM	Campbell Scientific/IEI
20	RV50 Cell Modem (Verizon US)	2	RV50-NA-V	Campbell Scientific/IEI
21	RV50 Mounting Kit	2	32252	Campbell Scientific/IEI
22	2 dBd 4G/3G Multiband Omnidirectional Antenna with Mounting Hardware	2	32262	Campbell Scientific/IEI
23	Surge Protection Kit, Type N to SMA, 700 to 2700 MHz	2	31317	Campbell Scientific/IEI
24	RG8 Antenna Cable with 2 Type N Male Connectors	2	COAXNTN-L12	Campbell Scientific/IEI
25	20W Solar Panel with Regulator 15 ft cable	1	SP20R-L15-PT-SM	Campbell Scientific/IEI
26	12VDC 12 Ah Sealed Lead Acid Battery w/mount	3	BP12	Campbell Scientific/IEI
27	Power Supply, 24 Vdc	1	29796	Campbell Scientific/IEI
28	12VDC Sealed Lead Acid Battery, 75Ah, 0.197" Diameter Tab with Bolt Hole	5	26111701	Grainger

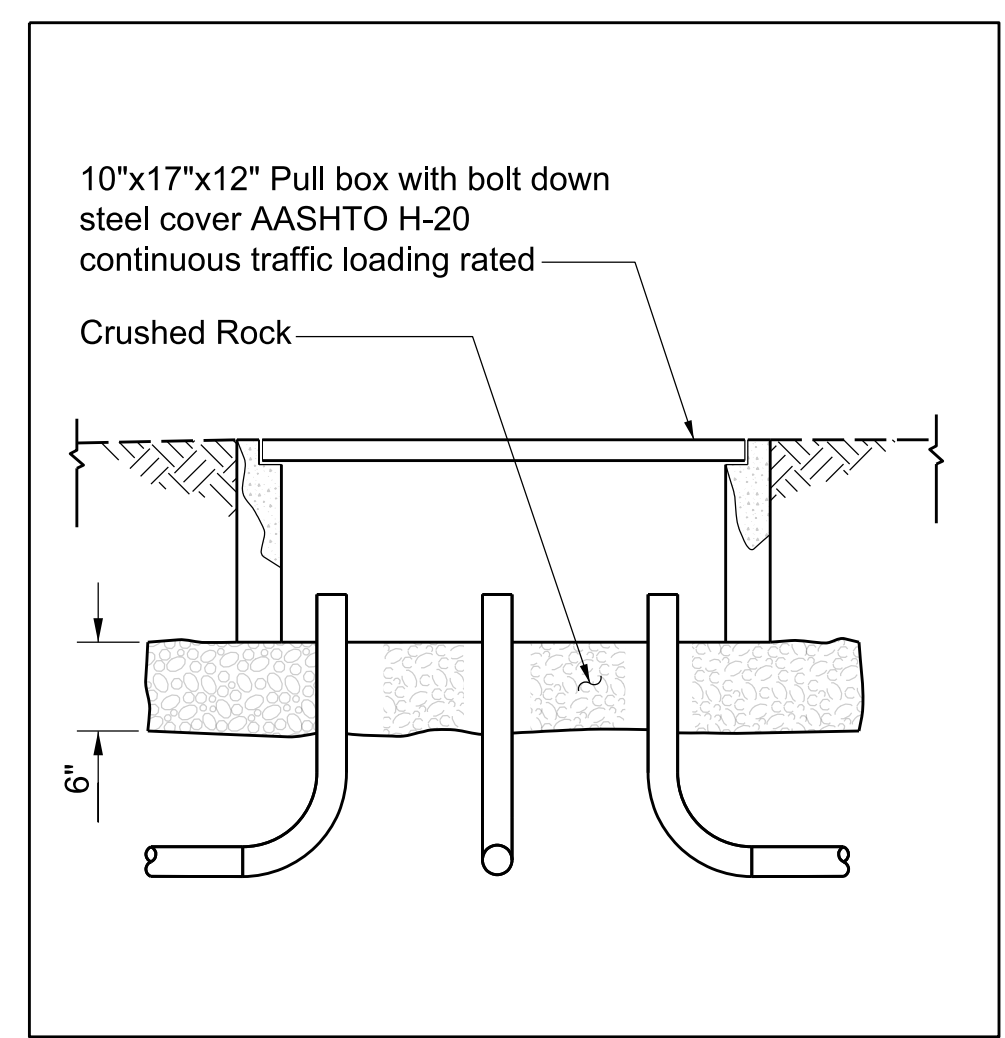
Note: Equipment not shown on mechanical plans are shown on electrical plans



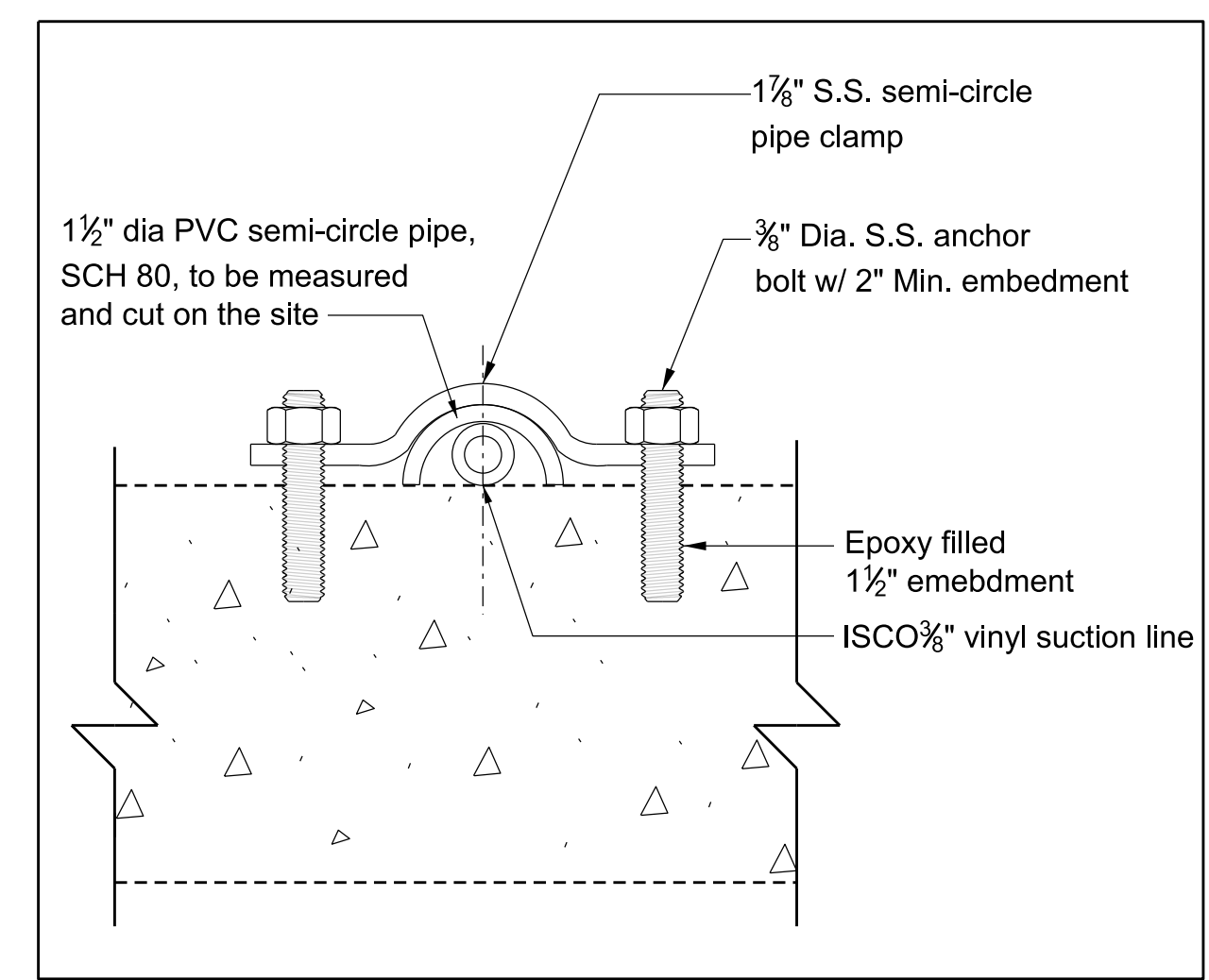
TYPICAL MONITORING PROFILE DETAIL
NOT TO SCALE



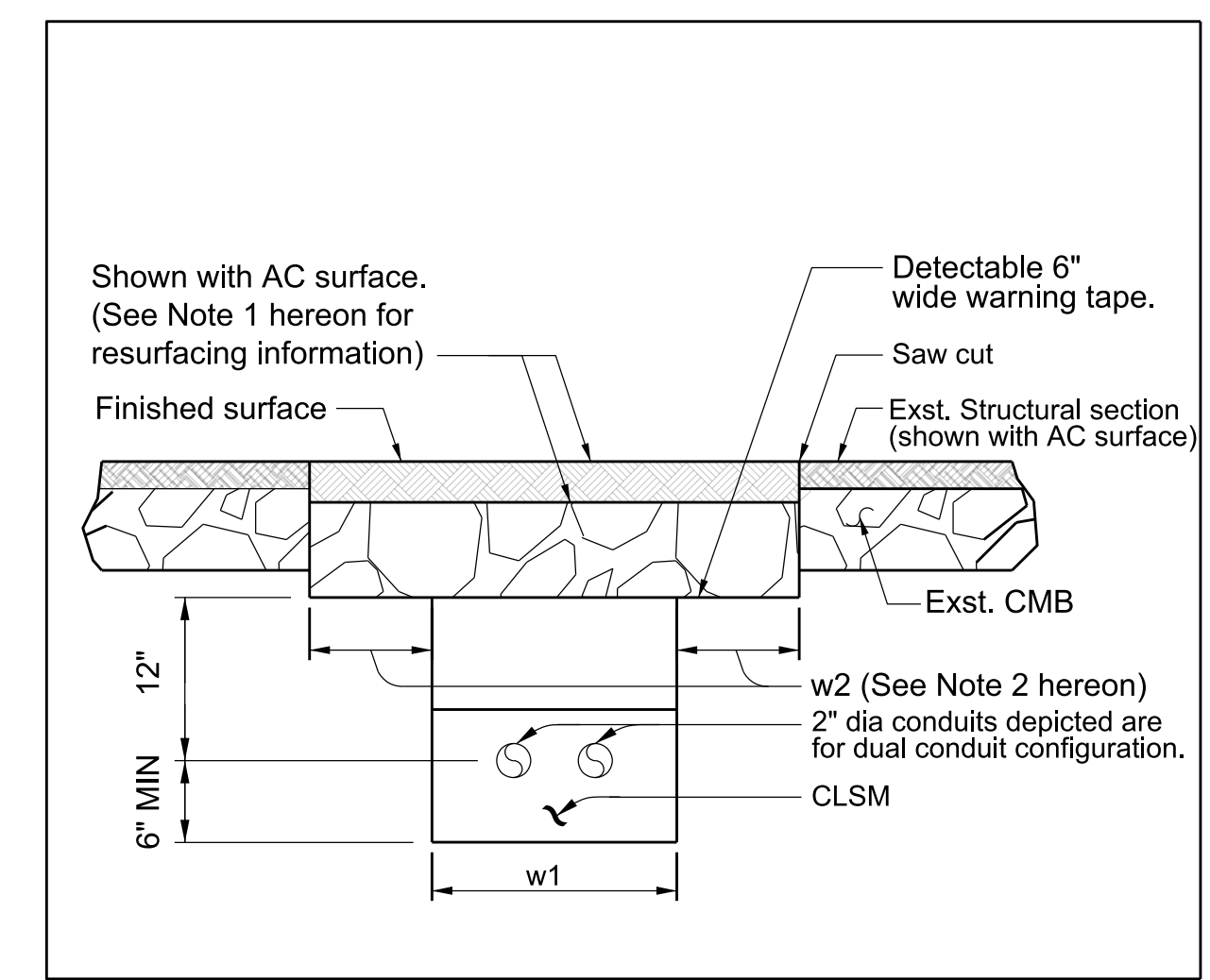
DETAIL "19"
NOT TO SCALE



DETAIL "20"
NOT TO SCALE



DETAIL "21"
TYPICAL CONDUIT ANCHOR
NOT TO SCALE

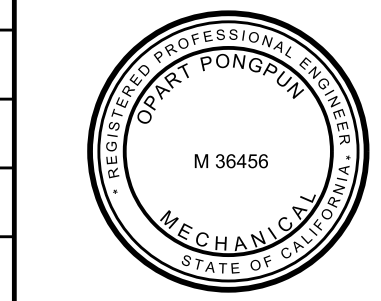


SECTION H-H
TYPICAL TRENCH SECTION
NOT TO SCALE

- Notes:
- For trenches and pull boxes in roadway, replace AC with existing thickness + 1" (C2-PG 64-10 ON B-PG 64-10) and CMB with existing thickness. For trenches and pull boxes in sidewalk, replace concrete with existing thickness. For trenches and pull boxes in park, replace with native fill.
 - w1 shall be 6" for trenches with one or two conduit.
w1 shall be 12" for trenches with three or more conduits.
w2 shall be 0" for all trenches in park or sidewalk.
w2 shall be 12" minimum for all trenches in the roadway.
Conduits will be buried at equal depths for trenches with 1-3 conduits.
Conduits will be placed in two rows for trenches with 4-6 conduits.
Conduits will be placed in three rows (as shown above) for trenches with 7 conduits.

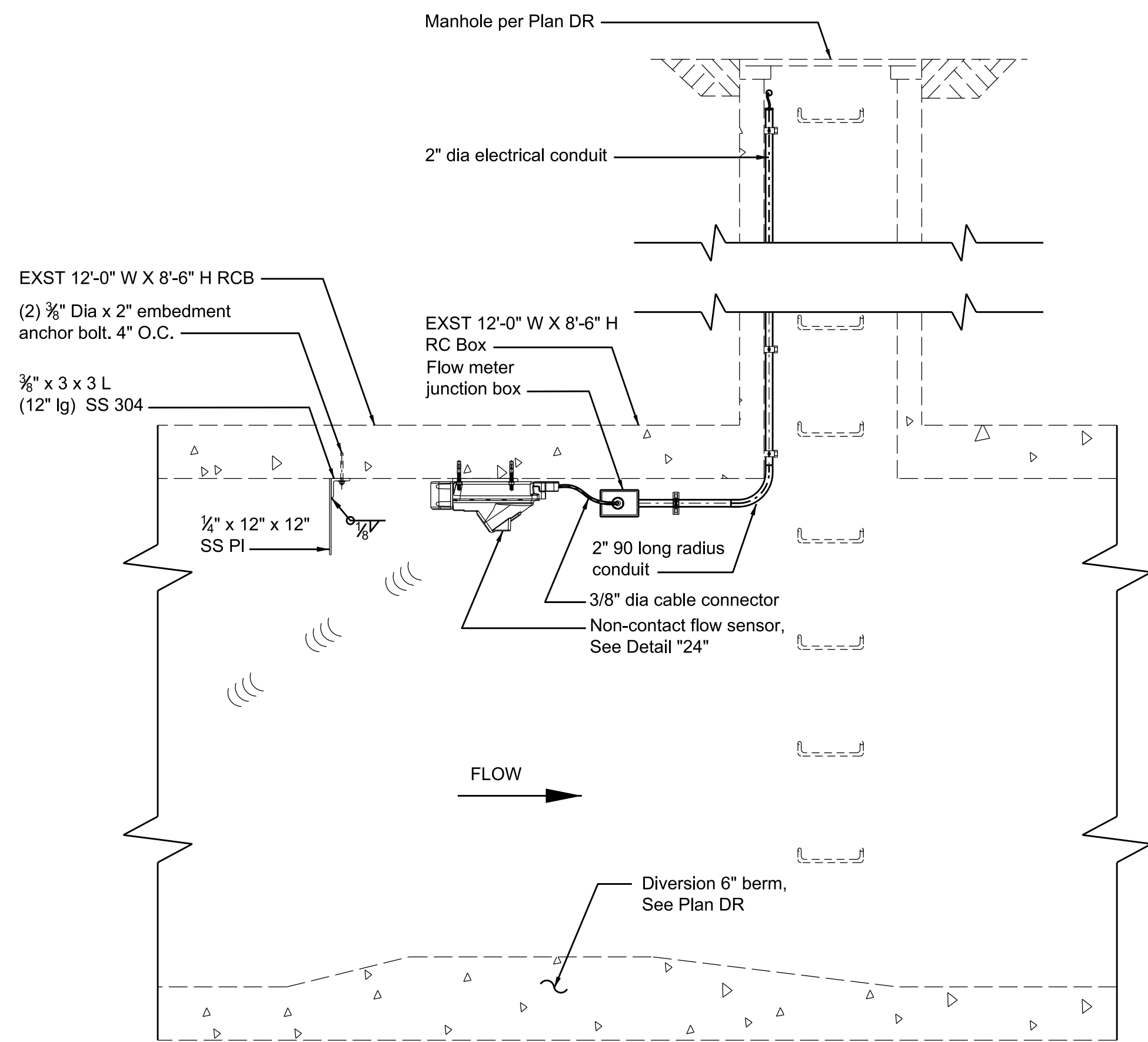
DRAFTER: Shadis A. L. Javier A.
 DESIGNER: Shadis A. L. Javier A.
 CHECKER: OPARTI P.
 CADD PROJECT FILE NAME:

DATE	MK	DESCRIPTION

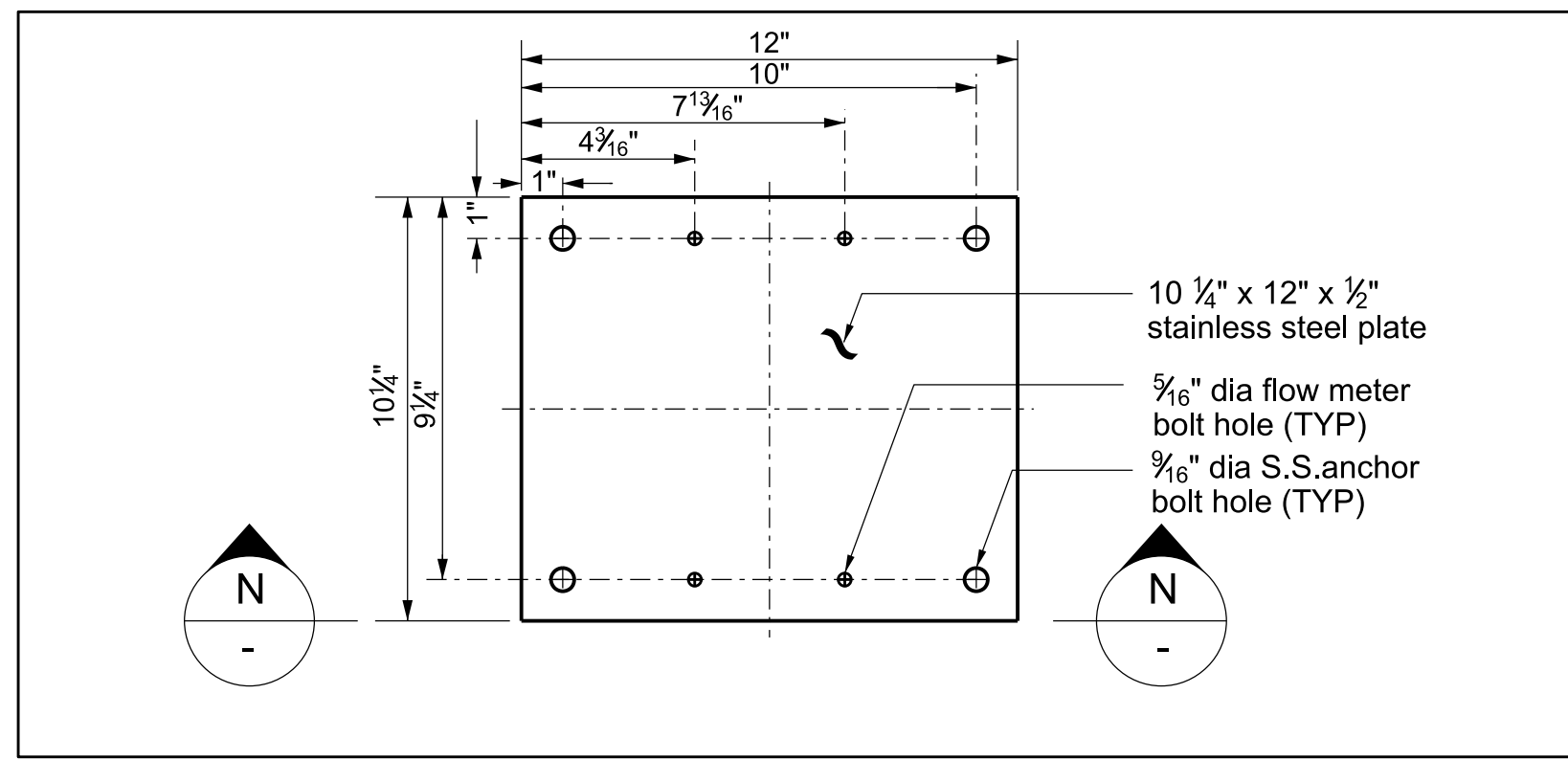


LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
DETAILS SHEET 3
 PROJECT ID NO. WMU000010
 PROJECT ENGINEER: [Signature] DATE: 05/30/19

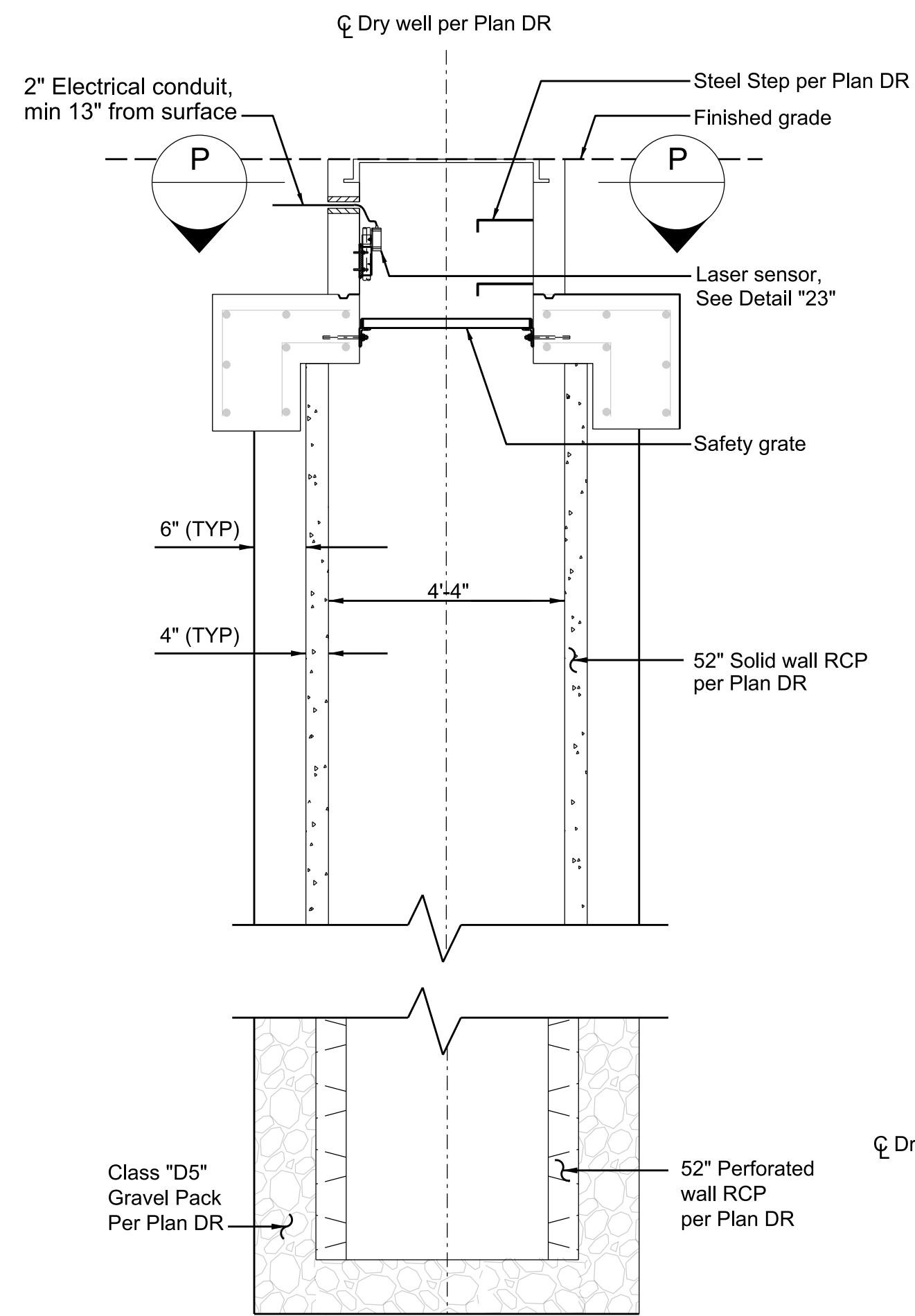
DRAFTER: Shadis A. L. Javier A.
 DESIGNER: Shadis A. L. Javier A.
 CHECKER: OPART P.
 CADD PROJECT FILE NAME:



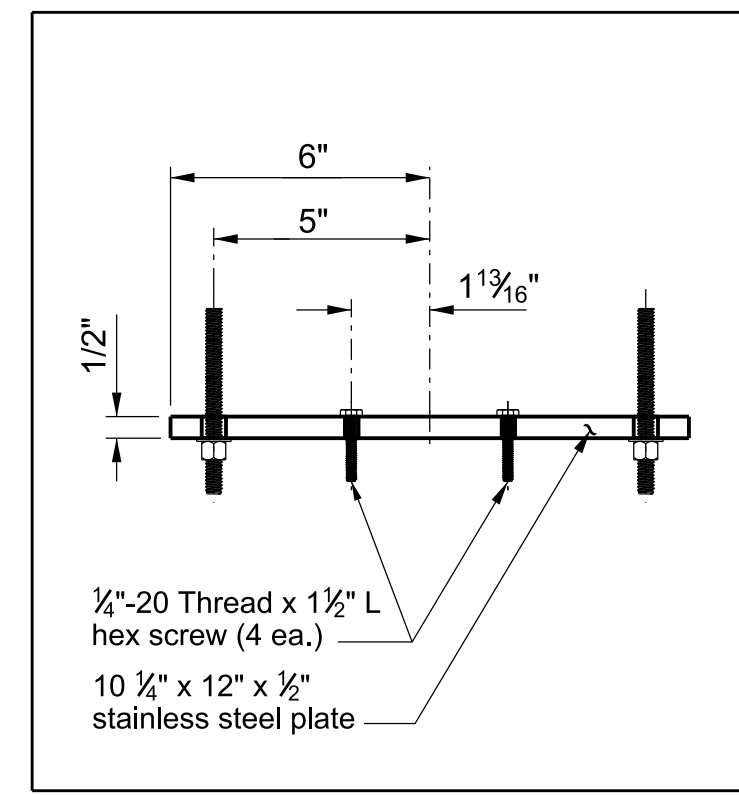
SECTION M-M, (M-2)
TYPICAL TRENCH SECTION
NOT TO SCALE



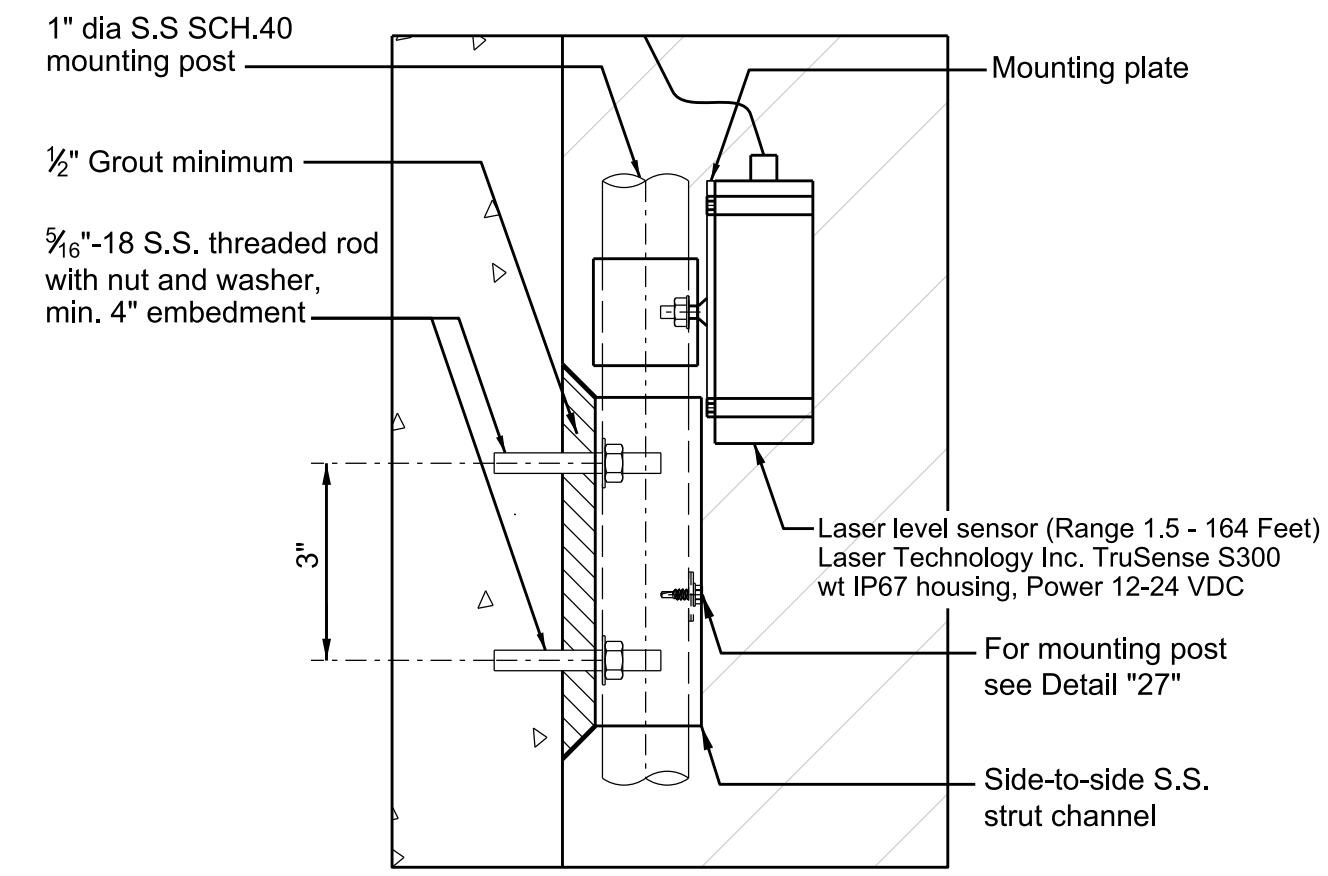
DETAIL "26"
SCALE : 3" = 1'-0"



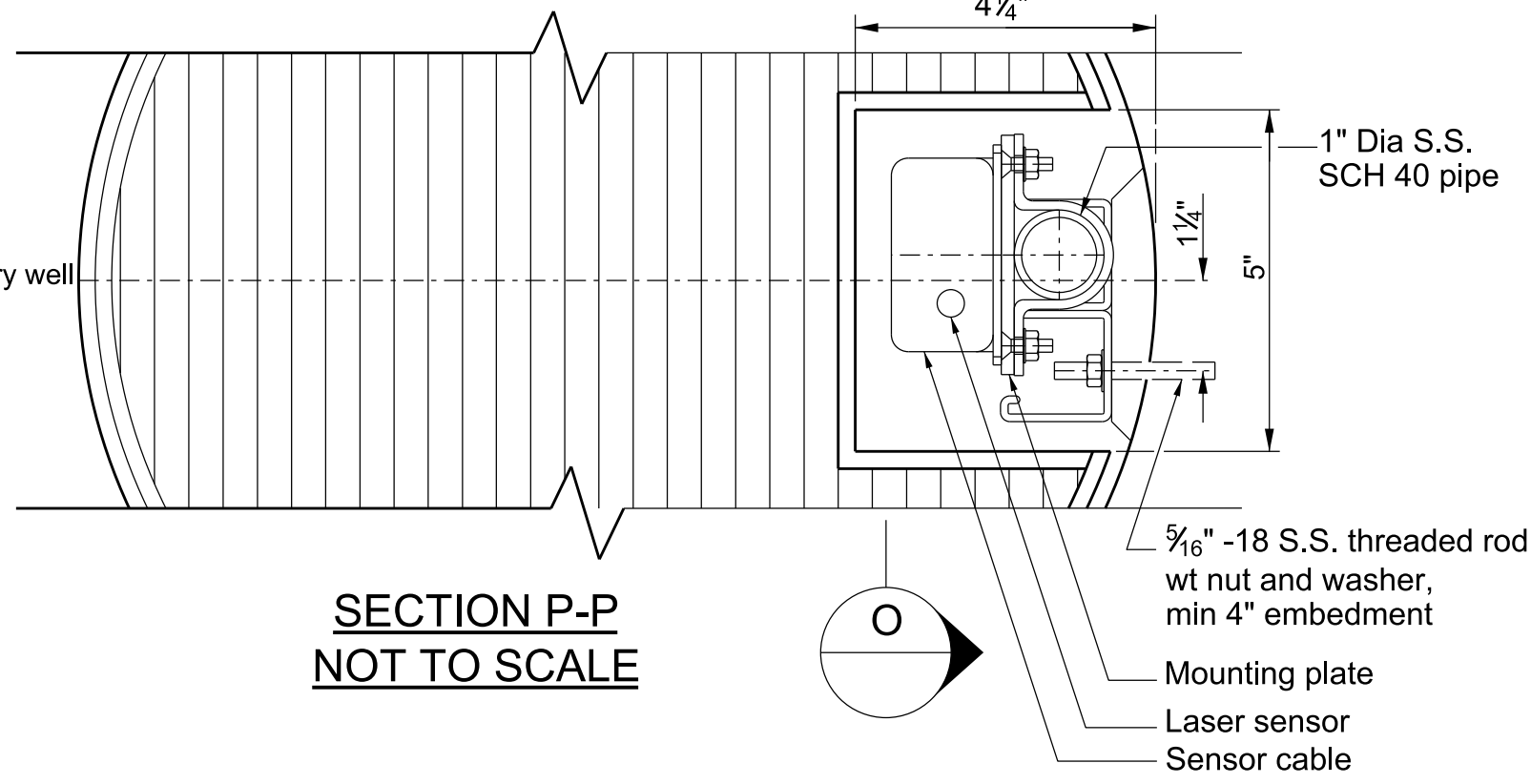
DETAIL "22"
TYPICAL DRY WELL AND
TRANSDUCER INSTALLATIONS
NOT TO SCALE



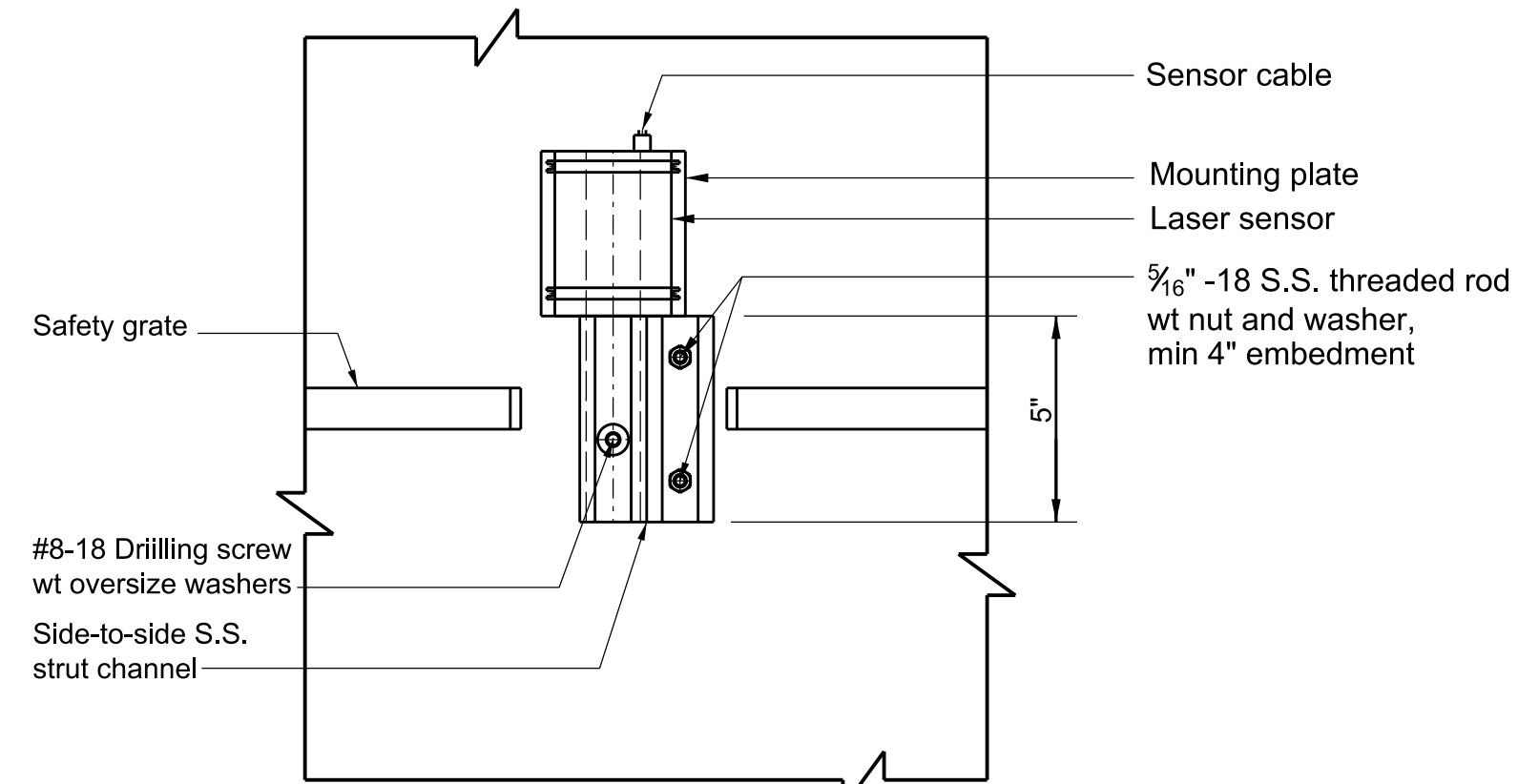
SECTION N-N
SCALE : 3" = 1'-0"



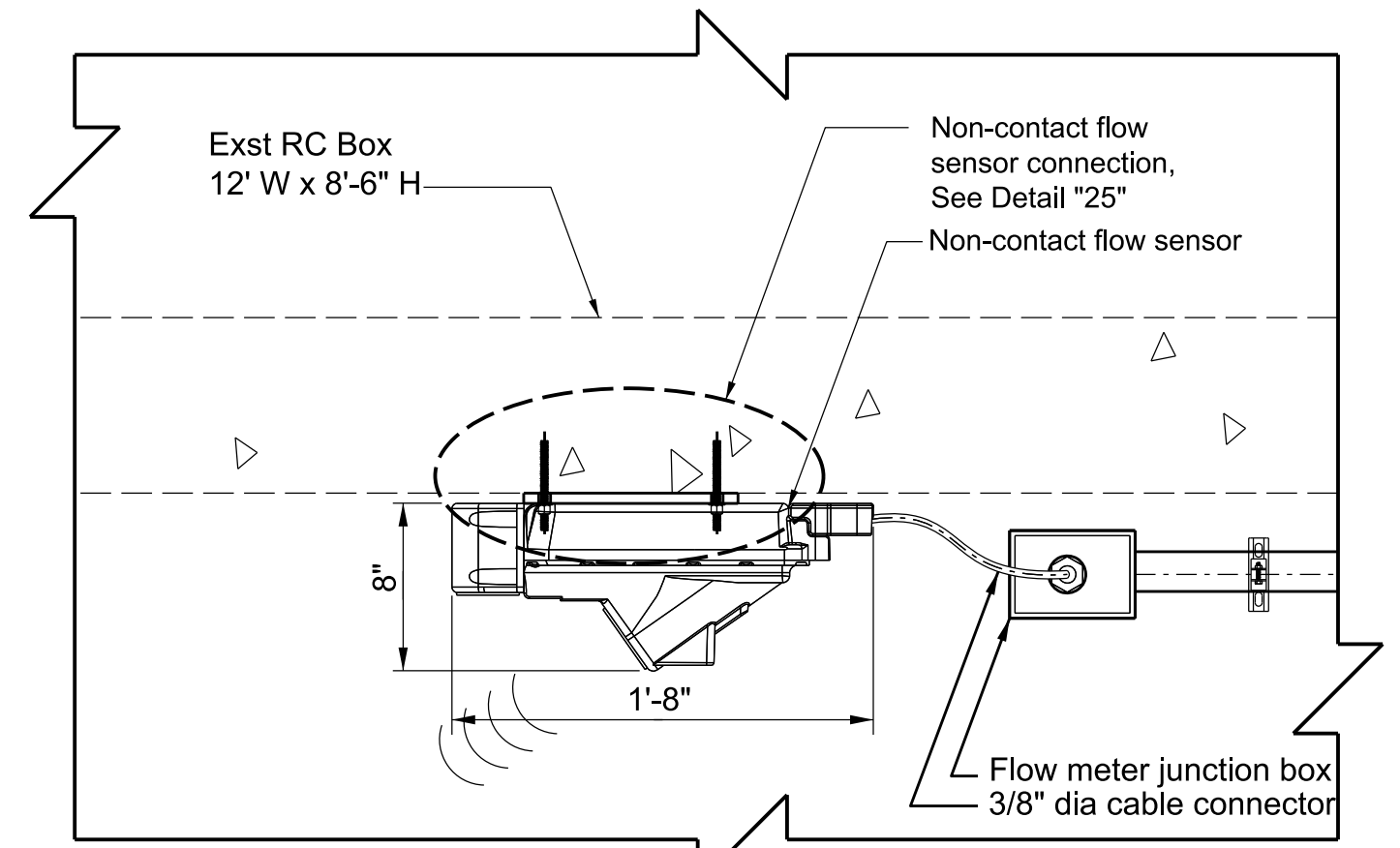
DETAIL "23"
TYPICAL LASER SENSOR
NOT TO SCALE



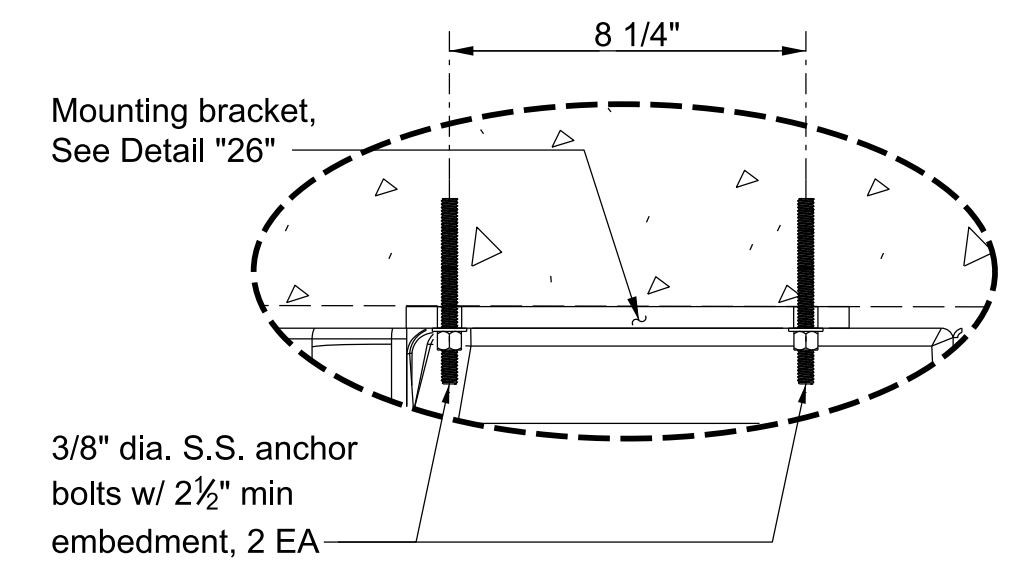
SECTION P-P
NOT TO SCALE



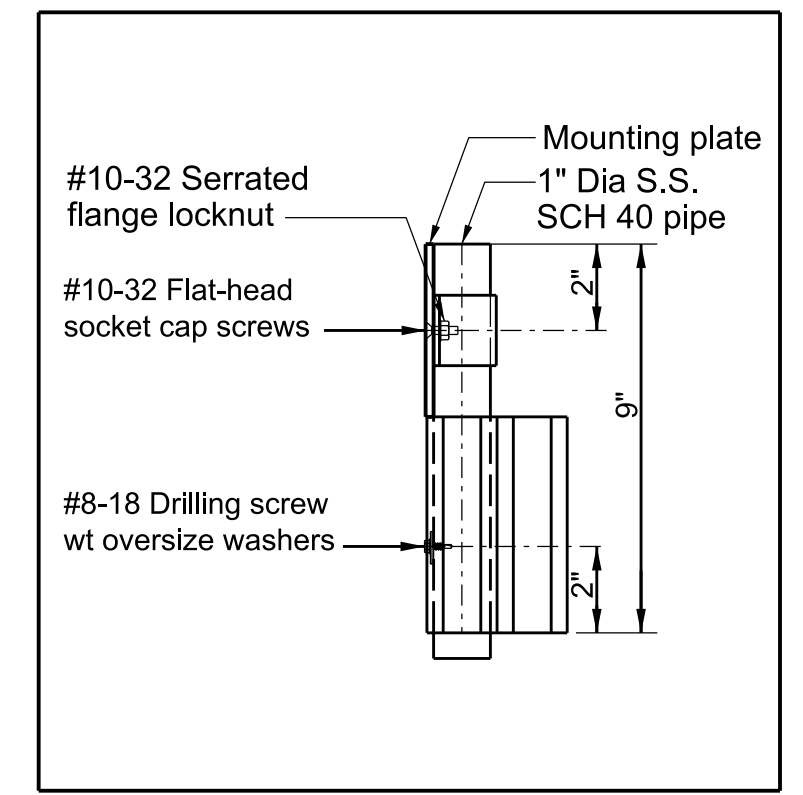
SECTION O-O
SCALE : 3" = 1'-0"



DETAIL "24"
SCALE 1 1/2" = 1'-0"

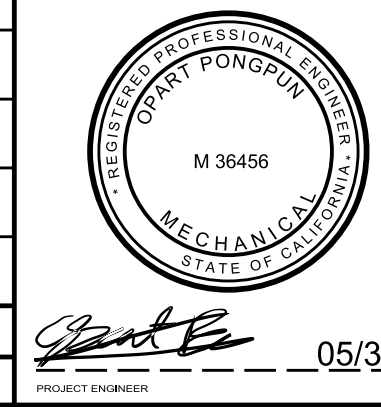


DETAIL "25"
SCALE 3" = 1'-0"

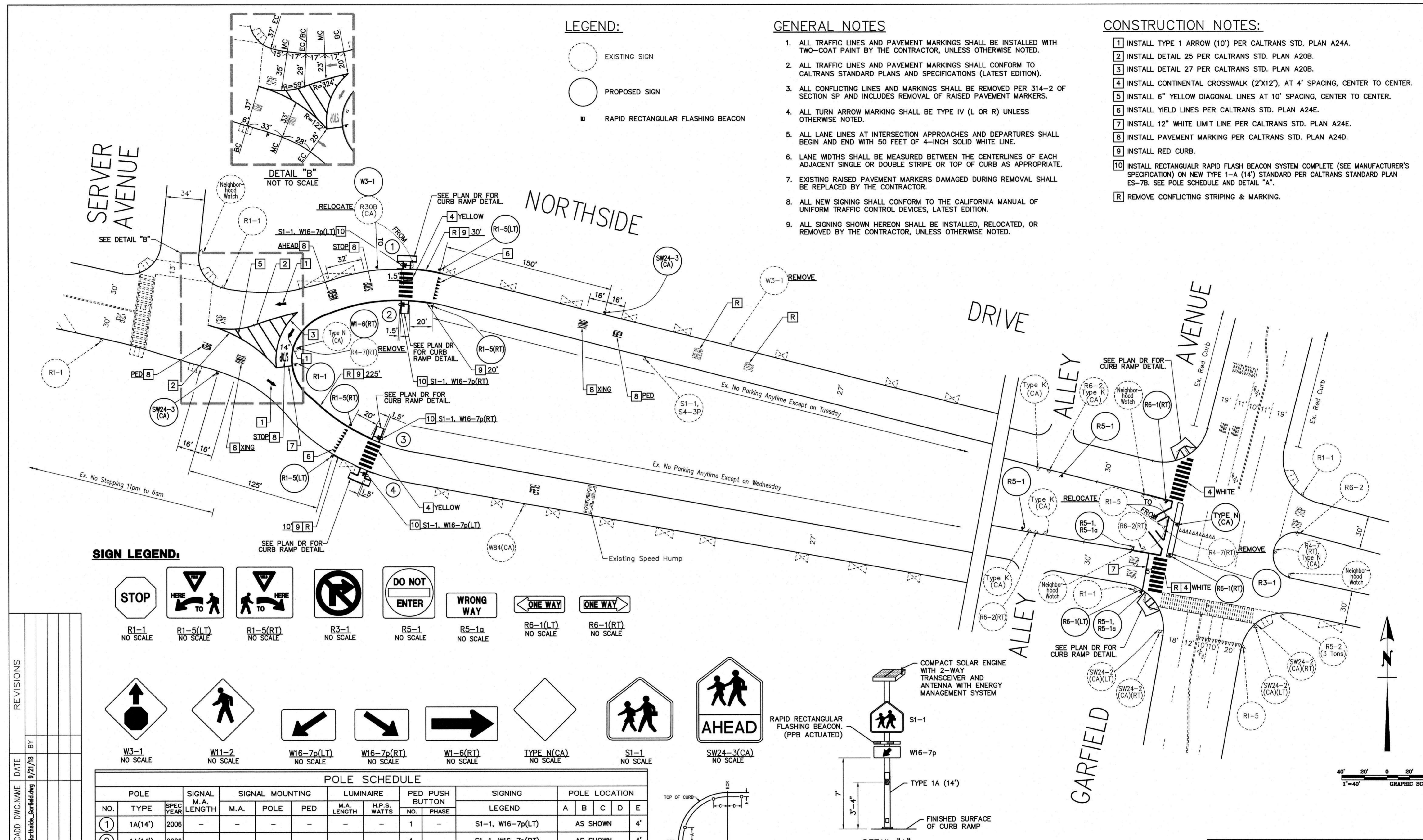


DETAIL "27"
SCALE : 3" = 1'-0"

DATE	MK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS
EAST LOS ANGELES
 SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT
DETAILS SHEET 4
 PROJECT ID NO. WMU000010
 LACFCD INDEX NO.116 - D27 SHEET 10 OF 10



- LEGEND:**
- EXISTING SIGN
 - PROPOSED SIGN
 - RAPID RECTANGULAR FLASHING BEACON

- GENERAL NOTES**
1. ALL TRAFFIC LINES AND PAVEMENT MARKINGS SHALL BE INSTALLED WITH TWO-COAT PAINT BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
 2. ALL TRAFFIC LINES AND PAVEMENT MARKINGS SHALL CONFORM TO CALTRANS STANDARD PLANS AND SPECIFICATIONS (LATEST EDITION).
 3. ALL CONFLICTING LINES AND MARKINGS SHALL BE REMOVED PER 314-2 OF SECTION 5P AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.
 4. ALL TURN ARROW MARKING SHALL BE TYPE IV (L OR R) UNLESS OTHERWISE NOTED.
 5. ALL LANE LINES AT INTERSECTION APPROACHES AND DEPARTURES SHALL BEGIN AND END WITH 50 FEET OF 4-INCH SOLID WHITE LINE.
 6. LANE WIDTHS SHALL BE MEASURED BETWEEN THE CENTERLINES OF EACH ADJACENT SINGLE OR DOUBLE STRIPE OR TOP OF CURB AS APPROPRIATE.
 7. EXISTING RAISED PAVEMENT MARKERS DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE CONTRACTOR.
 8. ALL NEW SIGNING SHALL CONFORM TO THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 9. ALL SIGNING SHOWN HEREON SHALL BE INSTALLED, RELOCATED, OR REMOVED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.

- CONSTRUCTION NOTES:**
- 1 INSTALL TYPE 1 ARROW (10') PER CALTRANS STD. PLAN A24A.
 - 2 INSTALL DETAIL 25 PER CALTRANS STD. PLAN A20B.
 - 3 INSTALL DETAIL 27 PER CALTRANS STD. PLAN A20B.
 - 4 INSTALL CONTINENTAL CROSSWALK (2'X12'), AT 4' SPACING, CENTER TO CENTER.
 - 5 INSTALL 6" YELLOW DIAGONAL LINES AT 10' SPACING, CENTER TO CENTER.
 - 6 INSTALL YIELD LINES PER CALTRANS STD. PLAN A24E.
 - 7 INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD. PLAN A24E.
 - 8 INSTALL PAVEMENT MARKING PER CALTRANS STD. PLAN A24D.
 - 9 INSTALL RED CURB.
 - 10 INSTALL RECTANGULAR RAPID FLASH BEACON SYSTEM COMPLETE (SEE MANUFACTURER'S SPECIFICATION) ON NEW TYPE 1-A (14') STANDARD PER CALTRANS STANDARD PLAN ES-7B. SEE POLE SCHEDULE AND DETAIL "A".
- [R] REMOVE CONFLICTING STRIPING & MARKING.**

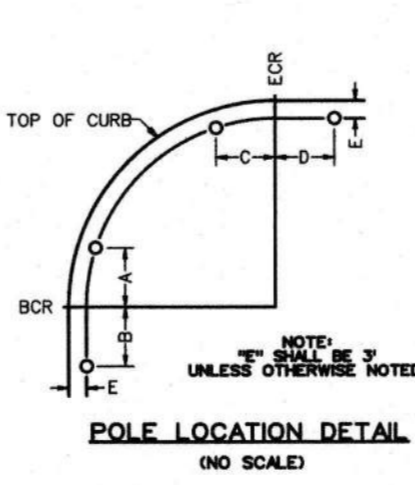
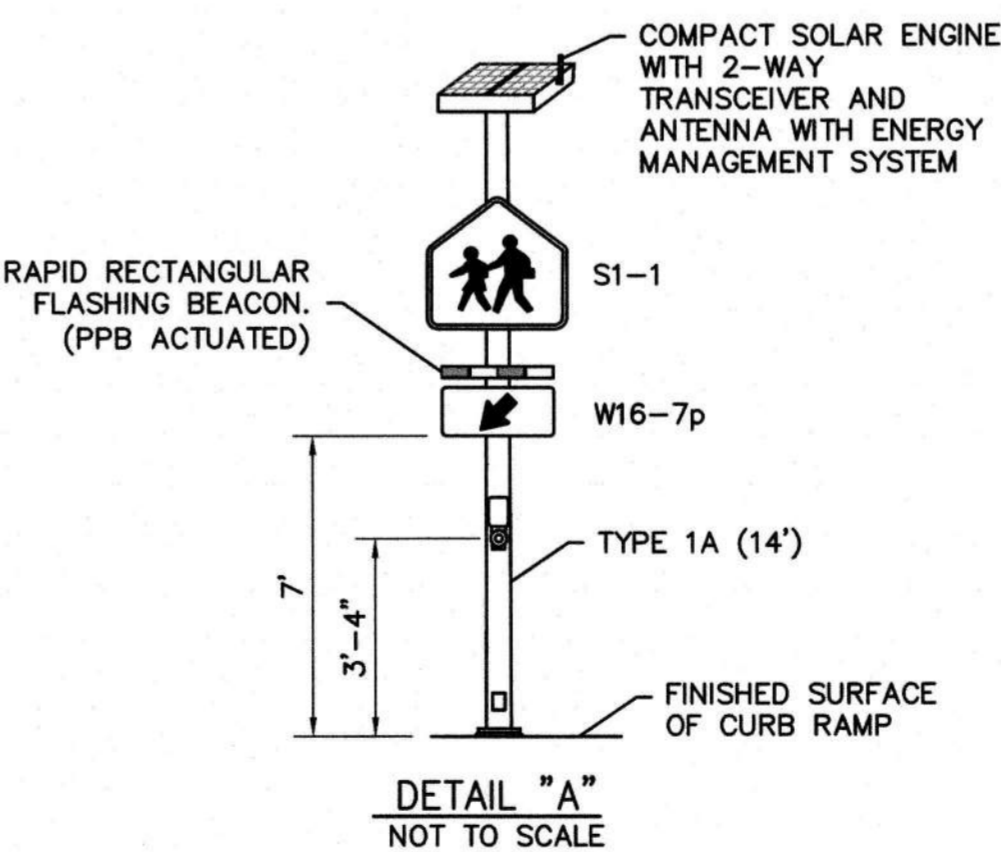
SIGN LEGEND:

POLE SCHEDULE

NO.	POLE TYPE	SPEC. YEAR	SIGNAL M.A. LENGTH	SIGNAL MOUNTING			LUMINAIRE		PED. PUSH BUTTON		SIGNING LEGEND	POLE LOCATION					
				M.A.	POLE	PED.	M.A. LENGTH	H.P.S. WATTS	NO.	PHASE		A	B	C	D	E	
1	1A(14')	2006	-	-	-	-	-	-	1	-	S1-1, W16-7p(LT)	AS SHOWN	4'				
2	1A(14')	2006	-	-	-	-	-	-	1	-	S1-1, W16-7p(RT)	AS SHOWN	4'				
3	1A(14')	2006	-	-	-	-	-	-	1	-	S1-1, W16-7p(RT)	AS SHOWN	4'				
4	1A(14')	2006	-	-	-	-	-	-	1	-	S1-1, W16-7p(LT)	AS SHOWN	4'				

ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.

THIS PLAN IS ACCURATE FOR PROPOSED WORK ONLY



REVISIONS

NO.	DATE	BY	DESCRIPTION
1	9/27/18	Northside_Corfield	Initial Issue

PROJECT CADD DWG-NAME: Northside_Corfield.dwg

DRAWN: L. RIVERA

SPOTTED: A. KAM, T.E.

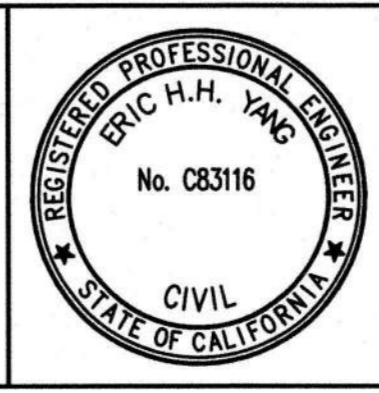
SUPERVISED BY:

REVIEWED BY:

Plan Prepared By: *Eric Yang* 3/7/2019 Date

KOA

1100 Corporate Center Drive, Suite 201
 Monterey Park, California 91754
 Tel: (323) 260-4703 Fax: (323) 260-4705



RECOMMENDED: COUNTY OF LOS ANGELES

BY: *Mark Pestrella* DATE: 5/30/19

APPROVED: MARK PESTRELLA, DIRECTOR OF PUBLIC WORKS

BY: *Eric Yang* DATE: 6-3-19

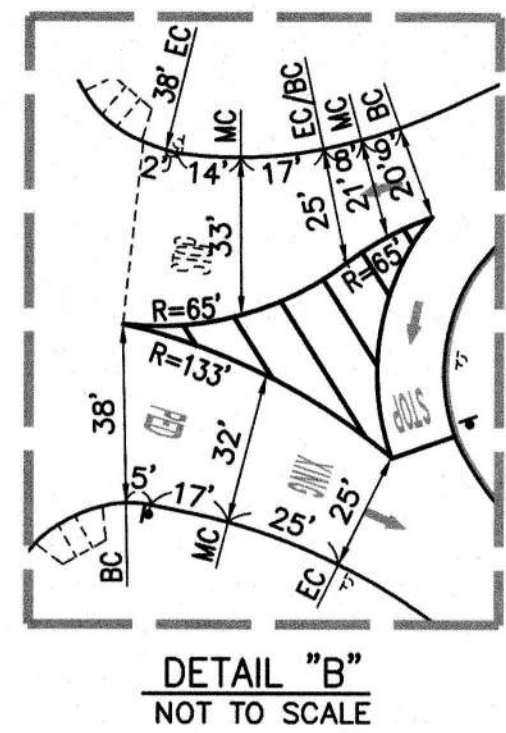
PROJECT ID NO. WMU000010

PCA NO. P97048AC

LOS ANGELES COUNTY
 PUBLIC WORKS
 TRAFFIC AND LIGHTING DIVISION

SIGNING AND STRIPING PLAN
 NORTHSIDE DRIVE
 SERVER AVENUE TO GARFIELD AVENUE

SHT. 1 OF 2 SCALE: 1"= 40'



LEGEND:

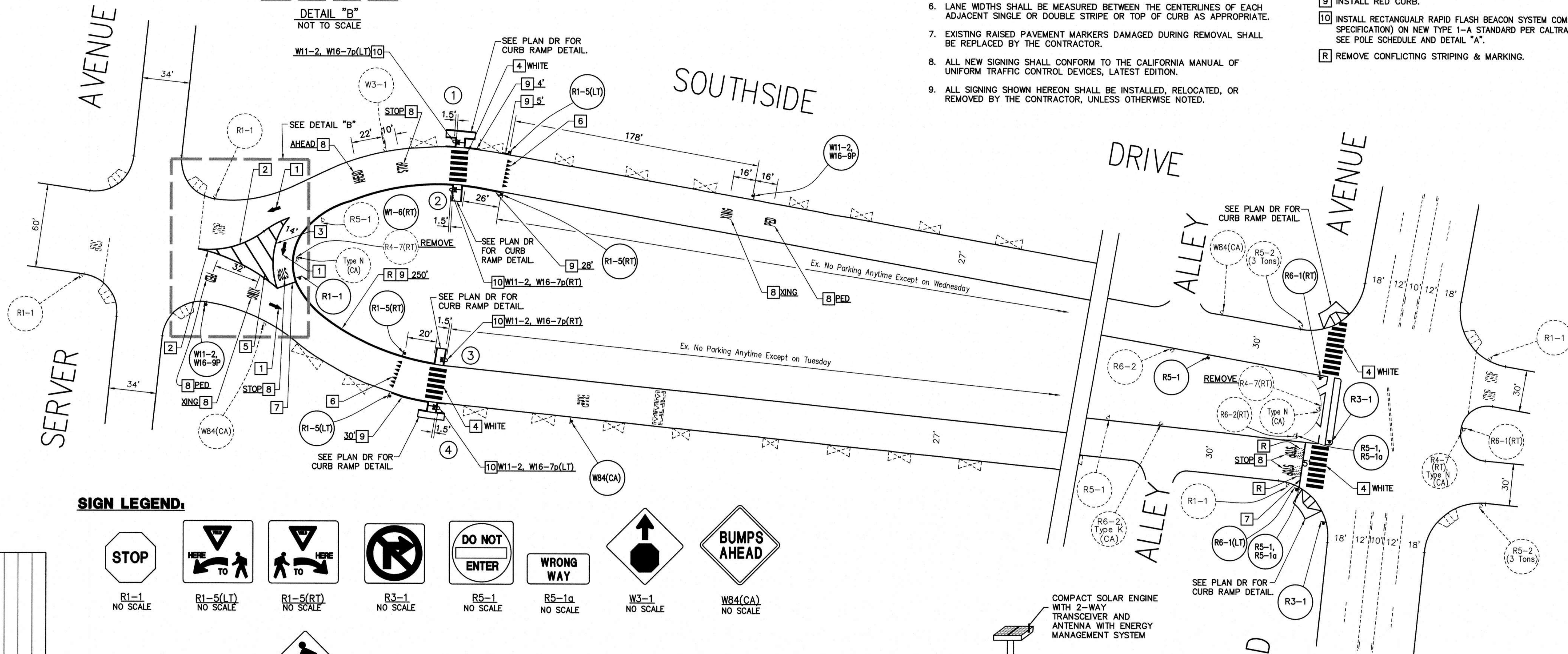
- EXISTING SIGN
- PROPOSED SIGN
- RAPID RECTANGULAR FLASHING BEACON

GENERAL NOTES:

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3. ALL CONFLICTING LINES AND MARKINGS SHALL BE REMOVED PER 314-2 OF SECTION SP AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.
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- 3 INSTALL DETAIL 27 PER CALTRANS STD. PLAN A20B.
- 4 INSTALL CONTINENTAL CROSSWALK (2'X12'), AT 4' SPACING, CENTER TO CENTER.
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- 6 INSTALL YIELD LINES PER CALTRANS STD. PLAN A24E.
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- 8 INSTALL PAVEMENT MARKING PER CALTRANS STD. PLAN A24D.
- 9 INSTALL RED CURB.
- 10 INSTALL RECTANGULAR RAPID FLASH BEACON SYSTEM COMPLETE (SEE MANUFACTURER'S SPECIFICATION) ON NEW TYPE 1-A STANDARD PER CALTRANS STANDARD PLAN ES-7B. SEE POLE SCHEDULE AND DETAIL "A".
- R REMOVE CONFLICTING STRIPING & MARKING.



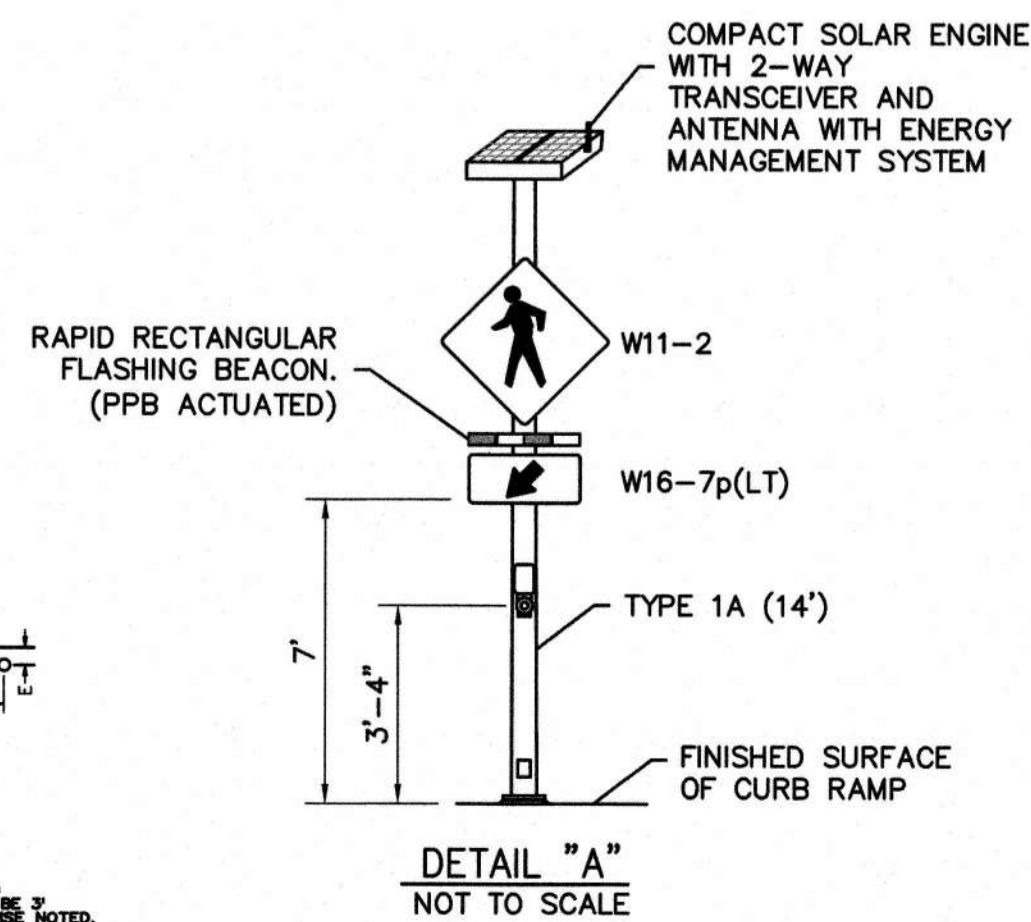
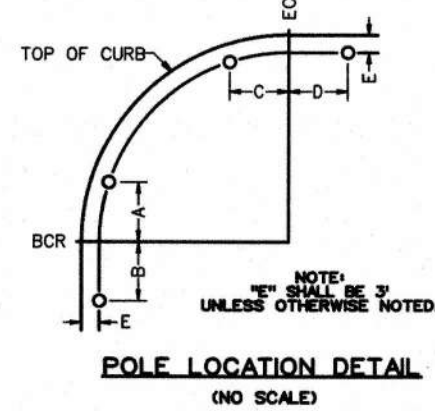
SIGN LEGEND:

R1-1 NO SCALE	R1-5(LT) NO SCALE	R1-5(RT) NO SCALE	R3-1 NO SCALE	R5-1 NO SCALE	R5-1a NO SCALE	W3-1 NO SCALE	W84(CA) NO SCALE
R6-1(LT) NO SCALE	R6-1(RT) NO SCALE	W11-2 NO SCALE	W16-7p(LT) NO SCALE	W16-7p(RT) NO SCALE	W1-6(RT) NO SCALE	W16-9P NO SCALE	

POLE SCHEDULE																		
NO.	POLE TYPE	SPEC YEAR	SIGNAL M.A. LENGTH	SIGNAL MOUNTING			LUMINAIRE		PED PUSH BUTTON		SIGNING LEGEND	POLE LOCATION						
				M.A.	POLE	PED	M.A. LENGTH	H.P.S. WATTS	NO.	PHASE		A	B	C	D	E		
1	1A(14')	2006	-	-	-	-	-	-	1	-	W11-2, W16-7p(LT)	AS SHOWN	4'					
2	1A(14')	2006	-	-	-	-	-	-	1	-	W11-2, W16-7p(RT)	AS SHOWN	4'					
3	1A(14')	2006	-	-	-	-	-	-	1	-	W11-2, W16-7p(RT)	AS SHOWN	4'					
4	1A(14')	2006	-	-	-	-	-	-	1	-	W11-2, W16-7p(LT)	AS SHOWN	4'					

ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.

THIS PLAN IS ACCURATE FOR PROPOSED WORK ONLY



REVISIONS	DATE	BY
	9/21/18	

PROJECT CADD DWG. NAME	Southside Corridor
DATE	9/21/18
BY	
DRAWN	L. RIVERA
CHECKED	
SPOTTED	A. KAM, T.E.
SUPERVISED BY	
REVIEWED BY	

Plan Prepared By: *Eric Yang* 3/7/2019 Date

1100 Corporate Center Drive, Suite 201
Monterey Park, California 91754
Tel: (626) 260-4703 Fax: (626) 260-4705

RECOMMENDED COUNTY OF LOS ANGELES
 BY: *[Signature]* DATE 5/30/19
 APPROVED: MARK PESTRELLA, DIRECTOR OF PUBLIC WORKS
 BY: *[Signature]* DATE 6-3-19
 PROJECT ID NO. WMU0000010
 PCA NO. P97048AC

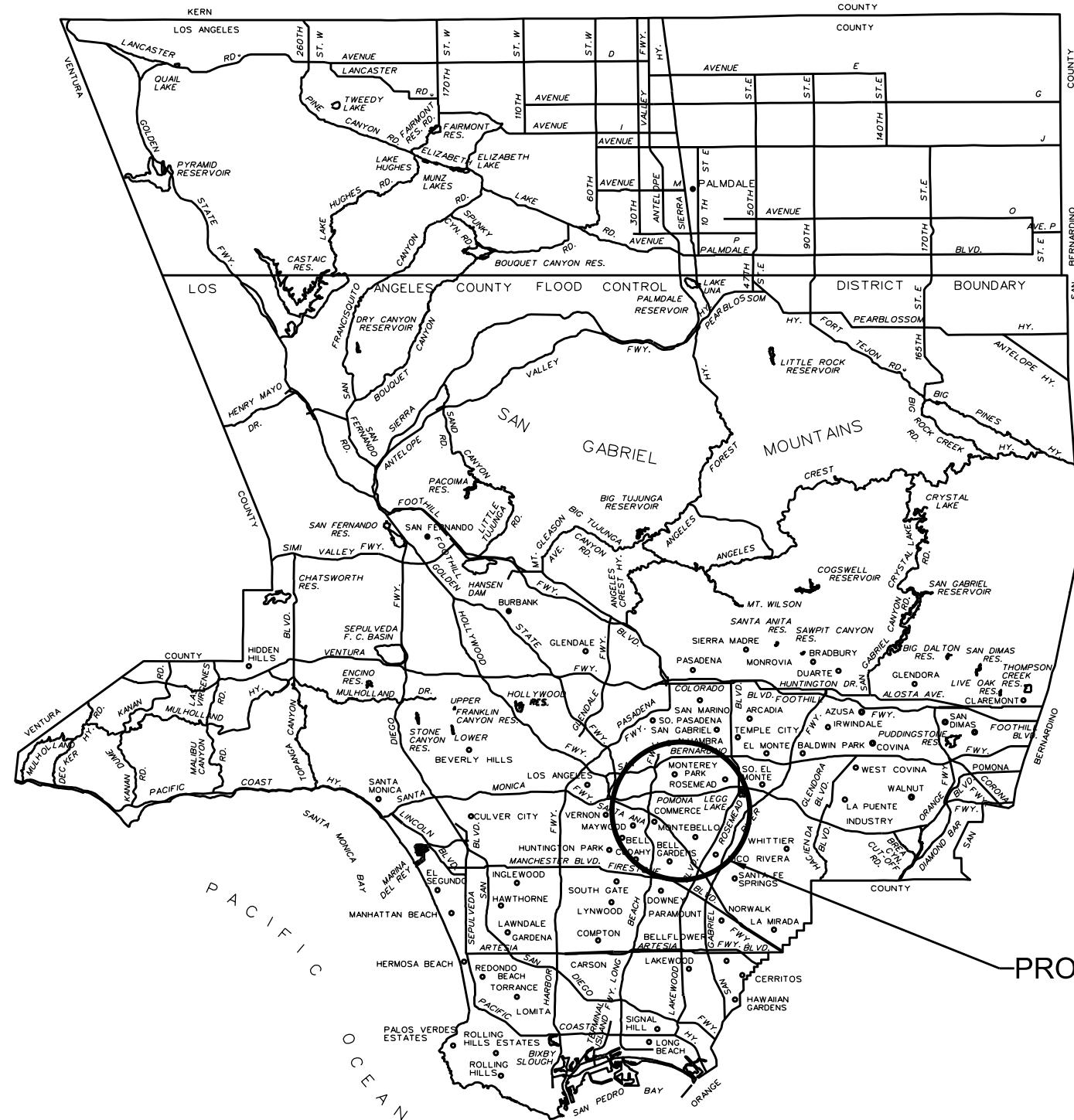
LOS ANGELES COUNTY
 PUBLIC WORKS
 TRAFFIC AND LIGHTING DIVISION

SIGNING AND STRIPING PLAN
 SOUTHSIDE DRIVE
 SERVER AVENUE TO GARFIELD AVENUE

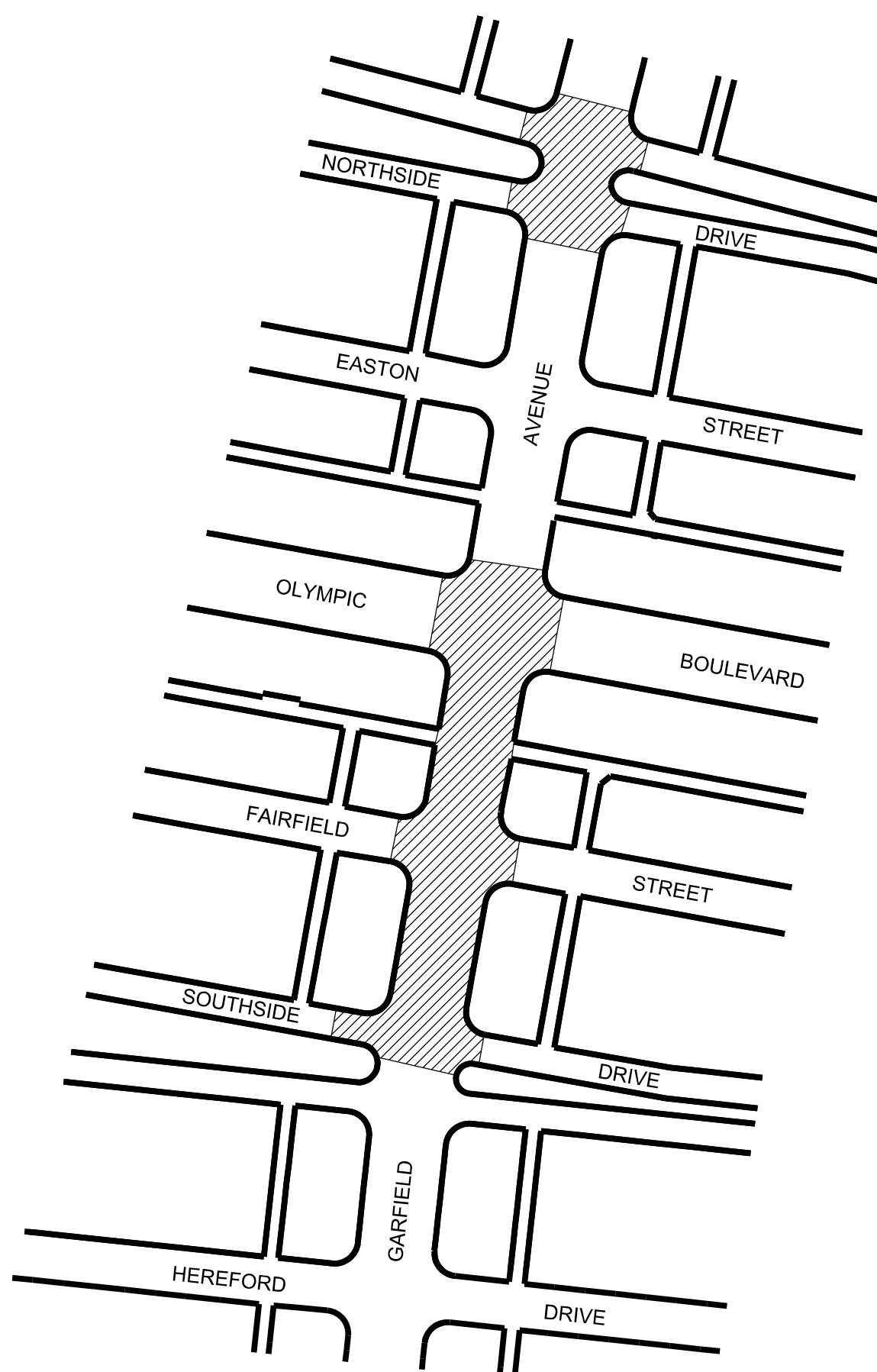
SHT. 2 OF 2 SCALE: 1" = 40'

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT TRAFFIC CONTROL PLAN



VICINITY MAP
N.T.S.



VICINITY MAP
NTS

W1-4(RT) =	W1-6(LT) =	W1-6(RT) =	W4-2(RT) =
W4-2(LT) =	W12-1 =	W20-1 =	W20-3 =
W20-5(RT) =	W20-5(LT) =	R3-1 =	R3-2 =
R3-5(RT) =	R3-7(RT) =	R3-7(LT) =	R4-7a =
R4-8a =	R9-3 =	R9-3bP(RT) =	R9-3bP(LT) =
R11-2 =	R60B(CA) =	C30(CA) =	M4-10 (RT) =
M4-10(LT) =	SC3(CA) =	SIGNING LEGEND	

LEGEND:

	- SIGN ON TYPE III BARRICADE WITH FLASHING BEACON
	- DELINEATOR WITH WHITE REFLECTIVE TAPE
	- TRAFFIC SIGNAL
	- WORK AREA
	- FLASHING ARROW SIGN (FAS)

TRAFFIC CONTROL PLAN GENERAL NOTES:

- ALL SIGNS, DELINEATORS, BARRICADES, ETC. SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS (2018) AND TO THE LATEST STATE OF CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- EACH ADVANCE WARNING SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME CLOSURE. EACH FLAG SHALL BE AT LEAST 16" x 16" IN SIZE AND SHALL BE ORANGE OR FLUORESCENT RED-ORANGE IN COLOR. FLASHING BEACONS SHALL BE PLACED AT THE LOCATIONS INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
- THE AGENCY RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN USE AND TO MAKE THE NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERSEDE THESE PLANS.
- THE CONTRACTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY ANY AFFECTED TRANSIT SERVICES, FIRE, AND POLICE SERVING THE AREA AT LEAST 14 DAYS PRIOR TO EACH CONSTRUCTION PHASE.
- THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SIGNING, BARRICADING, DELINEATORS, CHANGEABLE MESSAGE SIGNS, AND FLASHING ARROW SIGNS AS SHOWN ON THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE IN INSTALLING AND MAINTAINING THE TRAFFIC CONTROL SYSTEMS SHOWN ON THESE PLANS. IN THE EVENT THAT THERE ARE CHANGES IN THESE PLANS THAT NEED TO BE MADE DUE TO CHANGED FIELD CONDITIONS DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE IN MAKING THE NECESSARY CHANGES ON THESE PLANS WHERE APPLICABLE WITH THE APPROVAL OF THE ENGINEER.
- DELINEATORS SHALL BE SPACED AT 20' O.C. WITHIN 300' OF AN INTERSECTION.
- ALL CONFLICTING SIGNS SHALL BE COVERED DURING CONSTRUCTION. COVERS SHALL BE REMOVED AT COMPLETION OF CONSTRUCTION.
- ACCESS TO EXISTING BUSINESSES, RESIDENCES, AND SIDE STREETS SHALL BE PROVIDED.
- TRAFFIC CONTROL SIGNS ON PORTABLE SIGN SUPPORTS SHALL NOT BLOCK ACCESS IN THE TRAVELED WAY OR SIDEWALK AREA.
- COVER TRENCHES WITH STEEL PLATES DURING NON-WORKING HOURS.

CHANGEABLE MESSAGE SIGNS

TWO WEEKS PRIOR	DURING CONSTRUCTION
R O A D W O R K - - - - -	R O A D W O R K A H E A D
- - / - - / - - T O - - / - - / - -	E X P E C T D E L A Y S
E X P E C T D E L A Y S	



SUBMITTED:	C 66741
BY: <i>Jasper Junio</i>	1/22/19
DATE:	
APPROVED:	
BY: <i>[Signature]</i>	5/30/19
DATE:	

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
TRAFFIC AND LIGHTING DIVISION

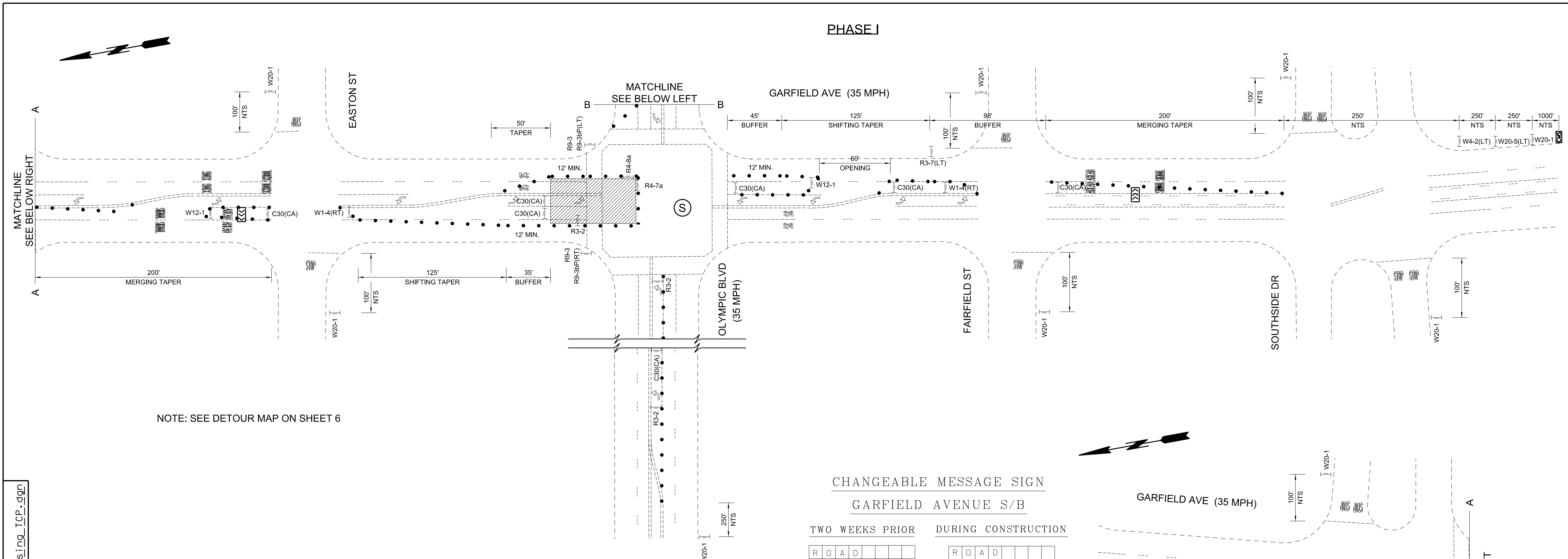
TRAFFIC CONTROL PLAN
EAST LOS ANGELES SUSTAINABLE MEDIAN
STORMWATER CAPTURE PROJECT
PROJECT ID NO. WMU0000010

SCALE: 1"=40' SHEET 1 OF 8

CAD PROJECT FILE NAME: WMU0000010 - ELA_Medion_Repurposing_TCP.dgn
 CHECKER: J. JUNIO
 DESIGNER: S. ROBERTSON
 DRAFTER: S. ROBERTSON

WMU0000010 - ELA SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

PHASE I

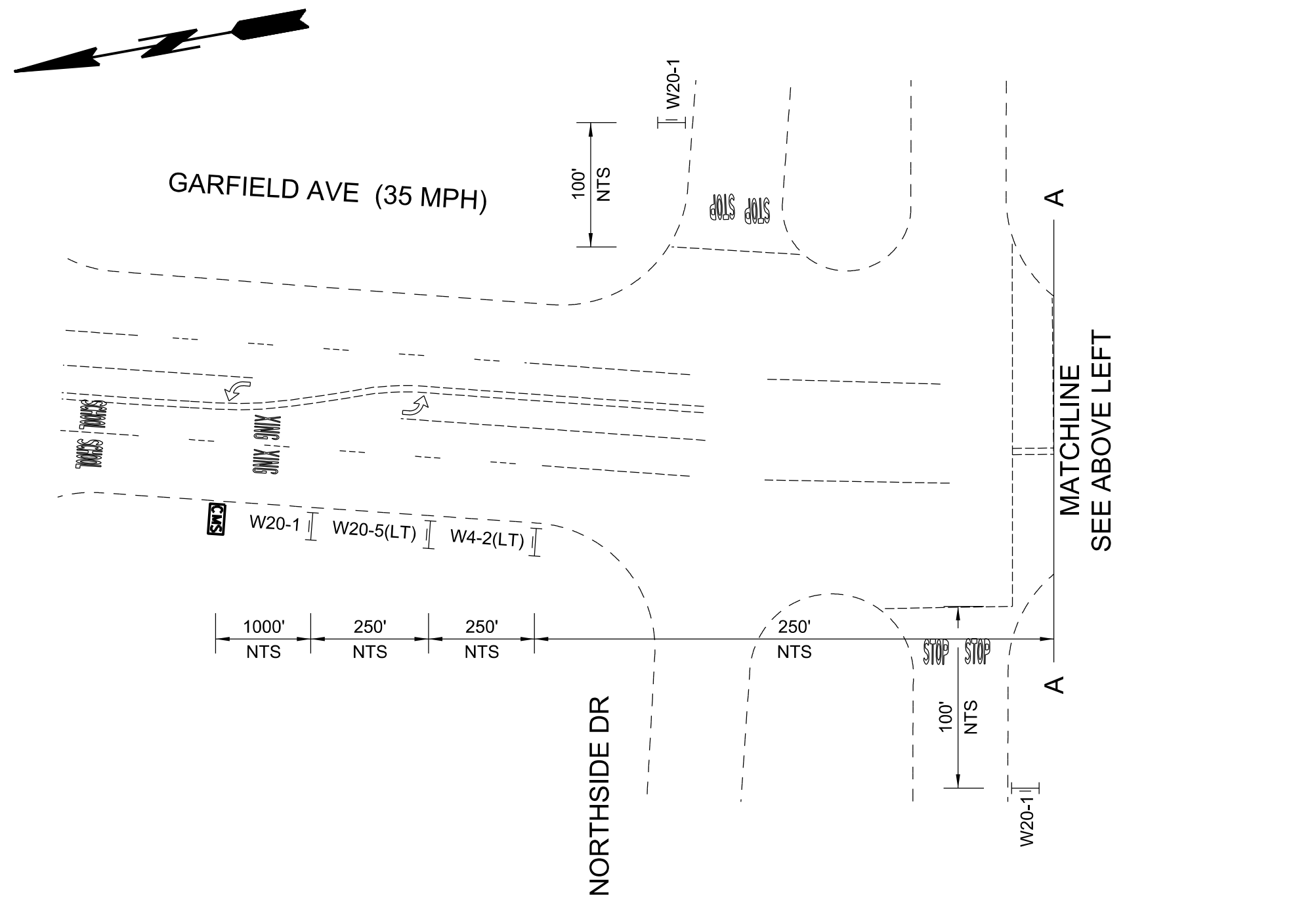


NOTE: SEE DETOUR MAP ON SHEET 6

**CHANGEABLE MESSAGE SIGN
GARFIELD AVENUE S/B**

TWO WEEKS PRIOR	DURING CONSTRUCTION
R O A D	R O A D
W O R K	W O R K
- - - -	A H E A D
- - / - - / - -	N D L E F T
T O	T U R N O N
- - / - - / - -	O L Y M P I C
E X P E C T	U S E
D E L A Y S	W H I T T I E R

- LEGEND:**
- SIGN ON TYPE III BARRICADE WITH FLASHING BEACON
 - DELINEATOR WITH WHITE REFLECTIVE TAPE
 - TRAFFIC SIGNAL
 - WORK AREA
 - FLASHING ARROW SIGN (FAS)



DRAFTER: S. ROBERTSON
 DESIGNER: S. ROBERTSON
 CHECKER: J. JUNIO
 CADD PROJECT FILE NAME: WMU000010 - ELA_Median_Repurposing_ICP.dgn

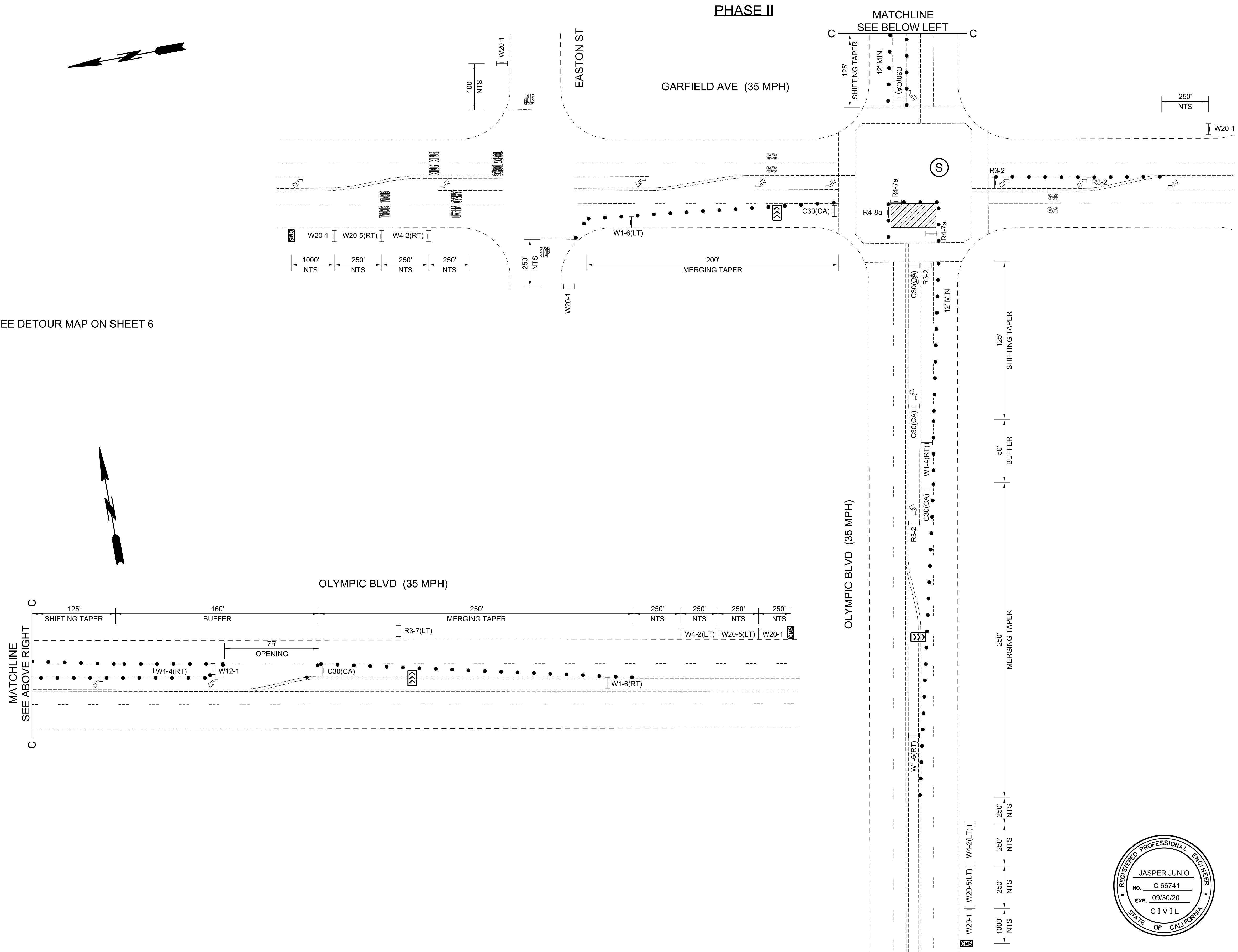


SUBMITTED: C 66741
 BY: *Jasper Junio* 1/22/19 DATE
 APPROVED: *Don Altieri* DATE
 BY: 5/30/19

LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
 TRAFFIC AND LIGHTING DIVISION
TRAFFIC CONTROL PLAN
 EAST LOS ANGELES SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 PROJECT ID NO. WMU0000010
 SCALE: 1"=40' SHEET 2 OF 8

DRAFTER S. ROBERTSON
 DESIGNER S. ROBERTSON
 CHECKER J. JUNIO
 CADD PROJECT FILE NAME WMU000010 - ELA_Median_Repurposing_ICP.dgn

NOTE: SEE DETOUR MAP ON SHEET 6



LEGEND:

	- SIGN ON TYPE III BARRICADE WITH FLASHING BEACON
	- DELINEATOR WITH WHITE REFLECTIVE TAPE
	- TRAFFIC SIGNAL
	- WORK AREA
	- FLASHING ARROW SIGN (FAS)



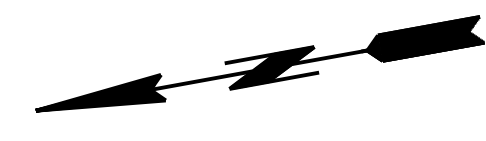
SUBMITTED:	C 66741
BY: <i>Jasper Junio</i>	1/22/19
DATE:	
APPROVED:	
BY: <i>D. [Signature]</i>	5/30/19
DATE:	

LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
 TRAFFIC AND LIGHTING DIVISION

TRAFFIC CONTROL PLAN
 EAST LOS ANGELES SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 PROJECT ID NO. WMU000010

SCALE: 1"=40' SHEET 3 OF 8

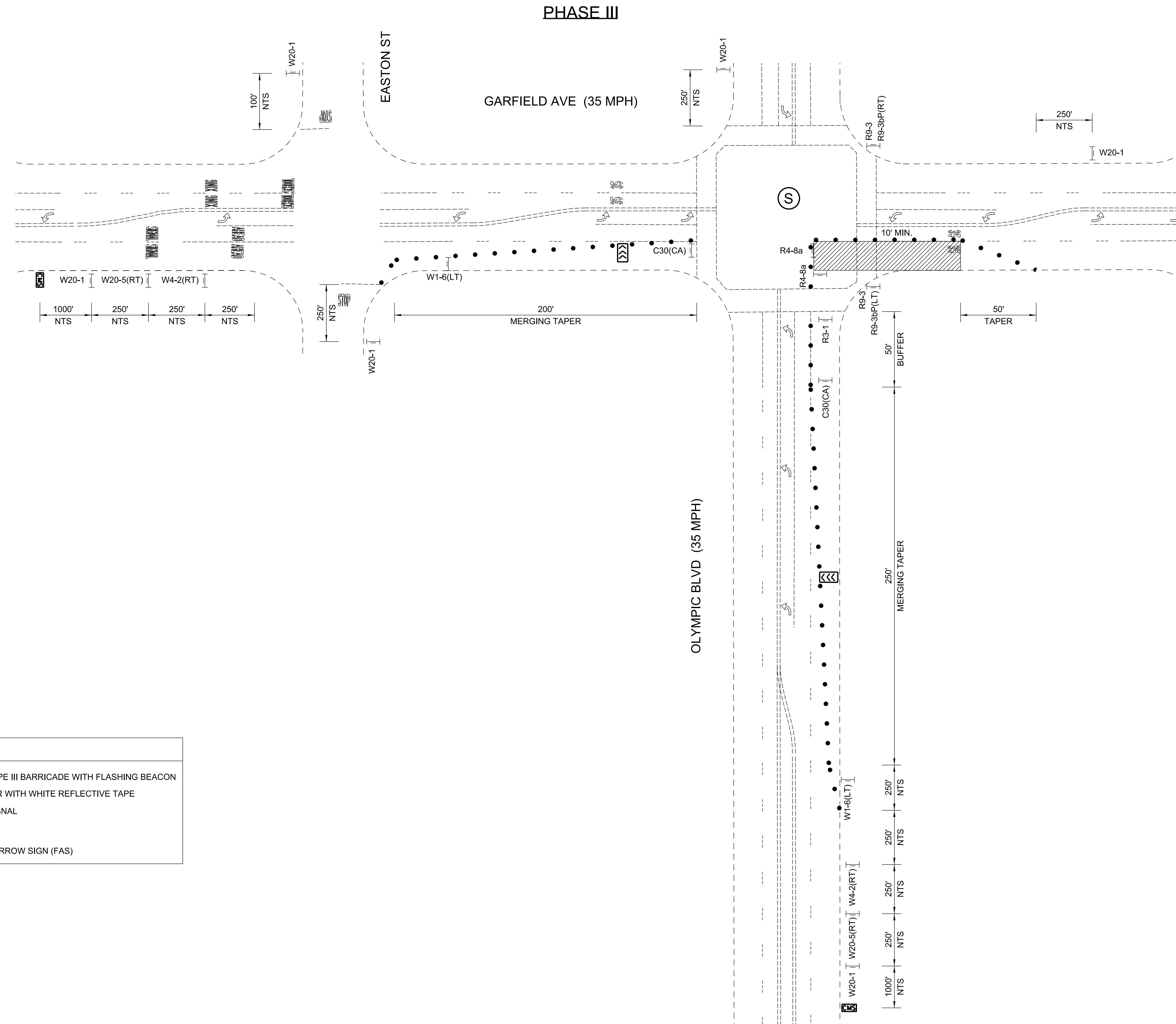
DRAFTER S. ROBERTSON
 DESIGNER S. ROBERTSON
 CHECKER J. JUNIO
 CADD PROJECT FILE NAME WMU000010 - ELA_Median_Repurposing_ICP.dgn



NOTE: SEE DETOUR MAP ON SHEET 6

LEGEND:

	- SIGN ON TYPE III BARRICADE WITH FLASHING BEACON
	- DELINEATOR WITH WHITE REFLECTIVE TAPE
	- TRAFFIC SIGNAL
	- WORK AREA
	- FLASHING ARROW SIGN (FAS)



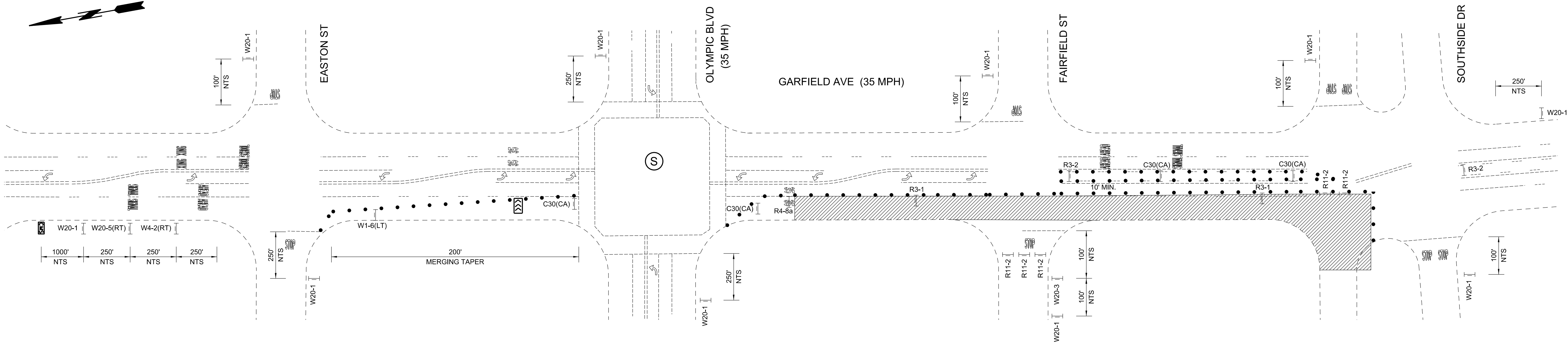
SUBMITTED:	C 66741
BY:	1/22/19
DATE	
APPROVED:	
BY:	5/30/19
DATE	

LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
 TRAFFIC AND LIGHTING DIVISION

TRAFFIC CONTROL PLAN
 EAST LOS ANGELES SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 PROJECT ID NO. WMU0000010

SCALE: 1"=40' SHEET 4 OF 8

PHASE IV



NOTE: FAIRFIELD ST AND SOUTHSIDE DR SHALL NOT BE CLOSED CONCURRENTLY.

LEGEND:

	- SIGN ON TYPE III BARRICADE WITH FLASHING BEACON
	- DELINEATOR WITH WHITE REFLECTIVE TAPE
	- TRAFFIC SIGNAL
	- WORK AREA
	- FLASHING ARROW SIGN (FAS)

DRAFTER: S. ROBERTSON
 DESIGNER: S. ROBERTSON
 CHECKER: J. JUNIO
 CADD PROJECT FILE NAME: WMU000010 - ELA_Median_Repurposing_ICP.dgn



SUBMITTED:	C 66741
BY: <i>Jasper Junio</i>	1/22/19
DATE:	
APPROVED:	
BY: <i>David...</i>	5/30/19
DATE:	

LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
 TRAFFIC AND LIGHTING DIVISION

TRAFFIC CONTROL PLAN
 EAST LOS ANGELES SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 PROJECT ID NO. WMU000010

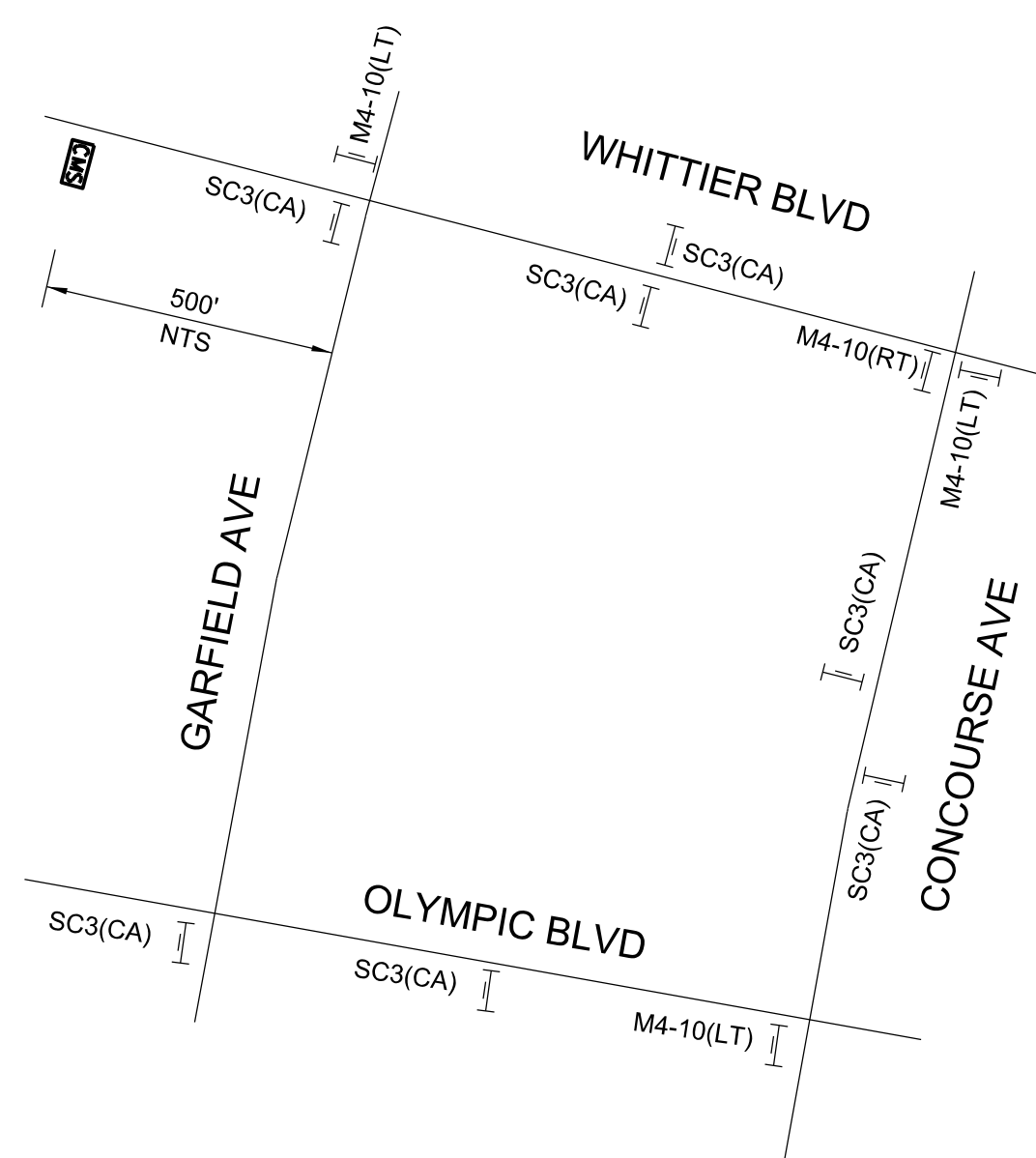
SCALE: 1"=40' SHEET 5 OF 8

CADD PROJECT FILE NAME
 WMU0000010 - ELA_Median_Repurposing_ICP.dgn

CHECKER
 J. JUNIO

DESIGNER
 S. ROBERTSON

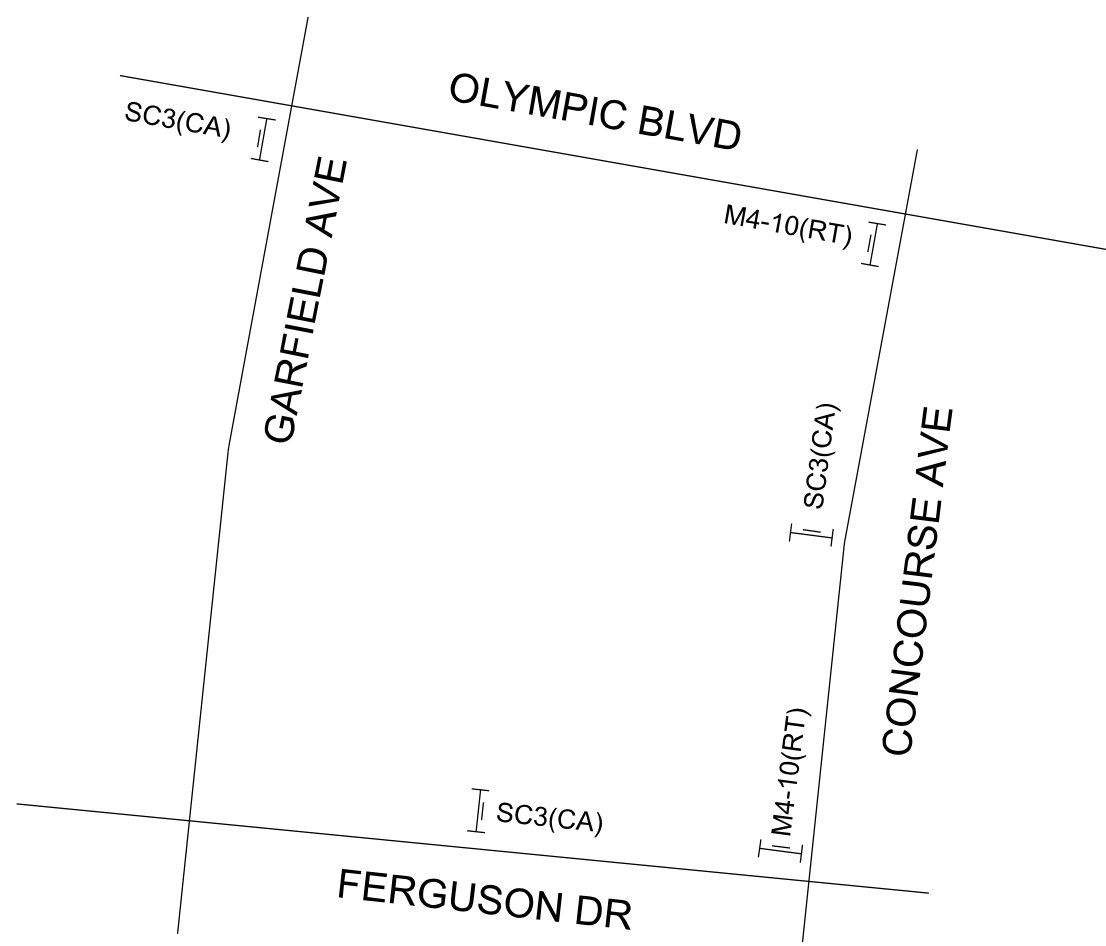
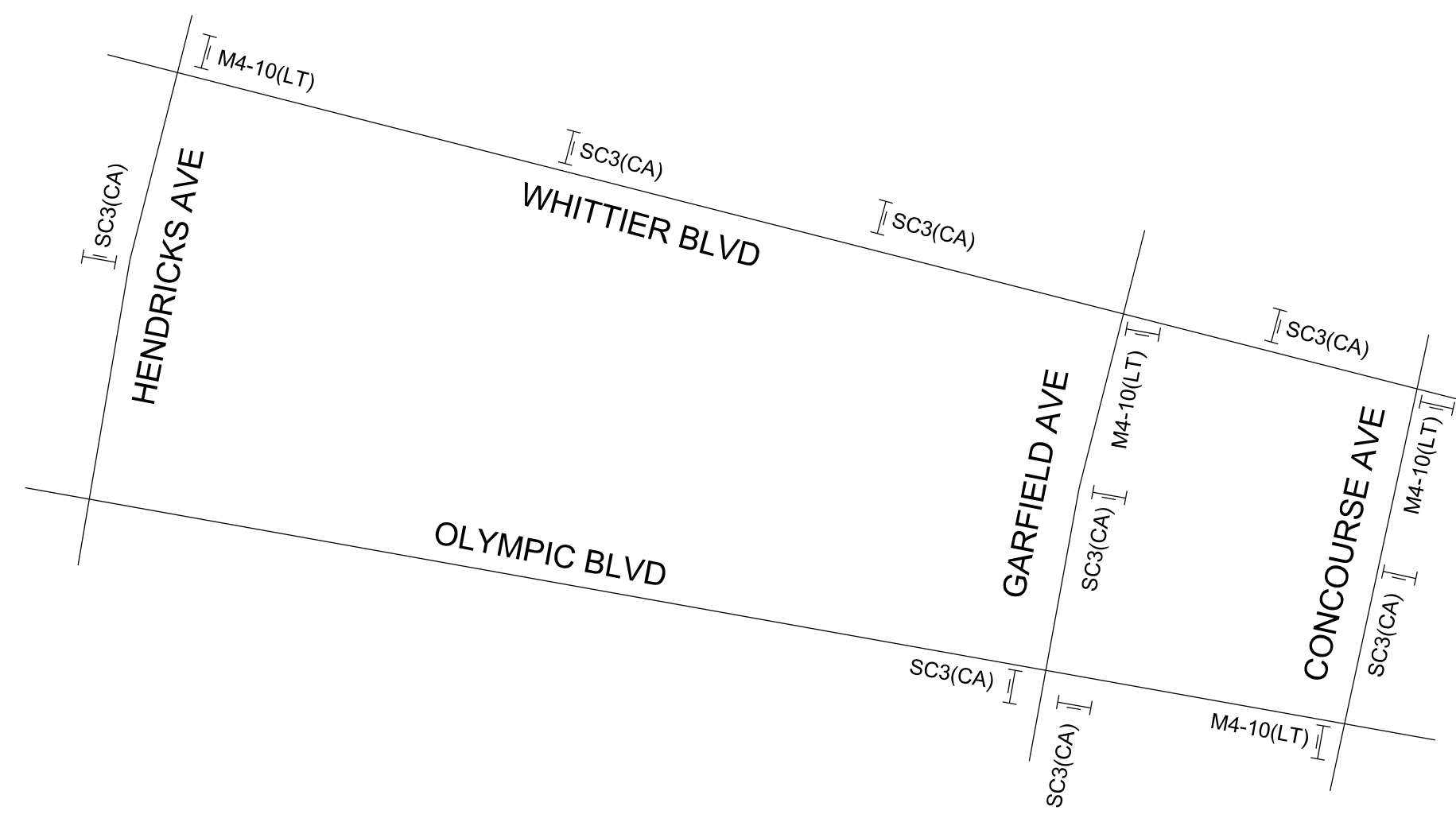
DRAFTER
 S. ROBERTSON



CHANGEABLE MESSAGE SIGN

DURING CONSTRUCTION

R	O	A	D				
W	O	R	K	O	N		
G	A	R	F	I	E	L	D
N	O	L	E	F	T		
T	U	R	N	O	N		
O	L	Y	M	P	I	C	
U	S	E					
W	H	I	T	T	I	E	R



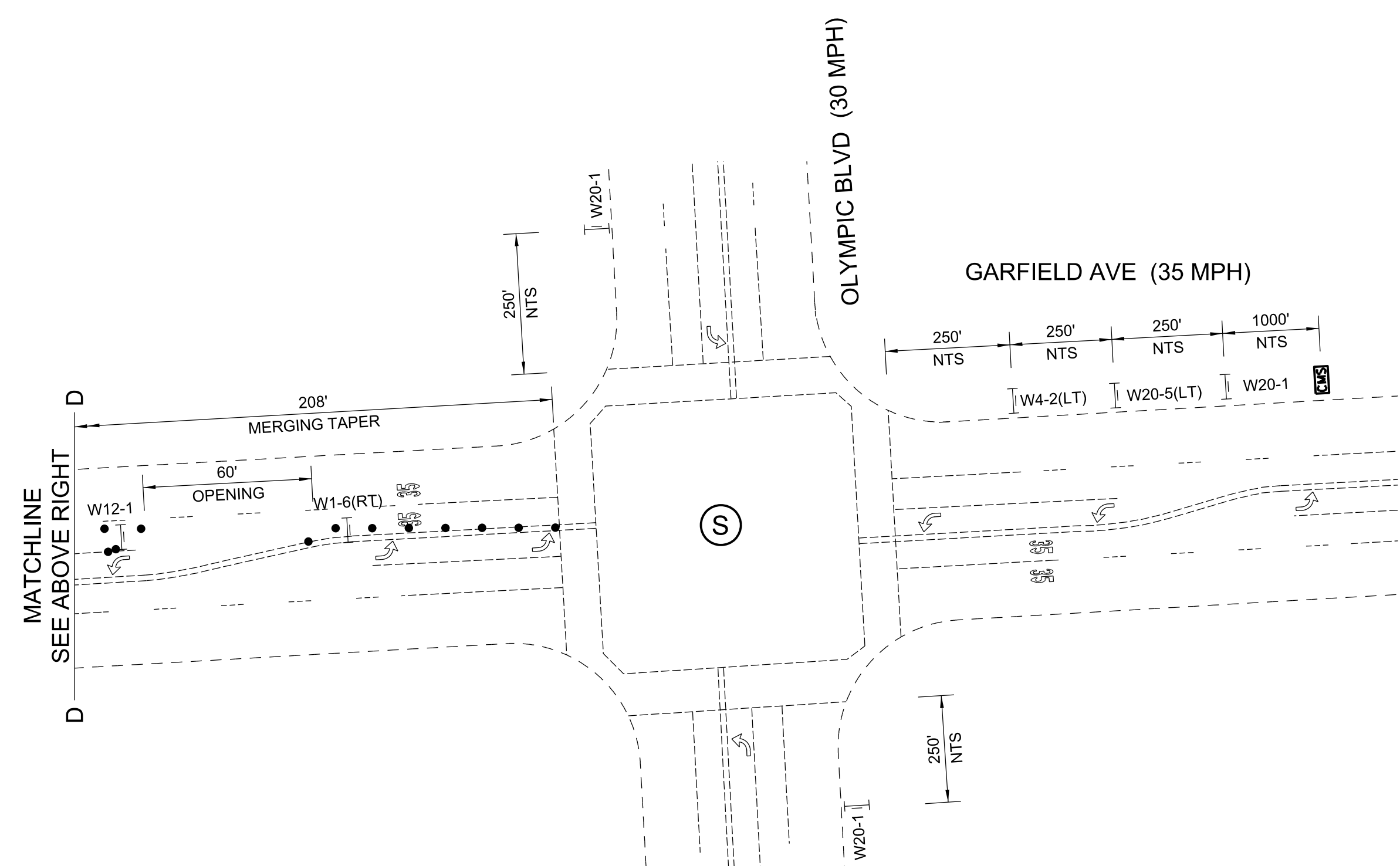
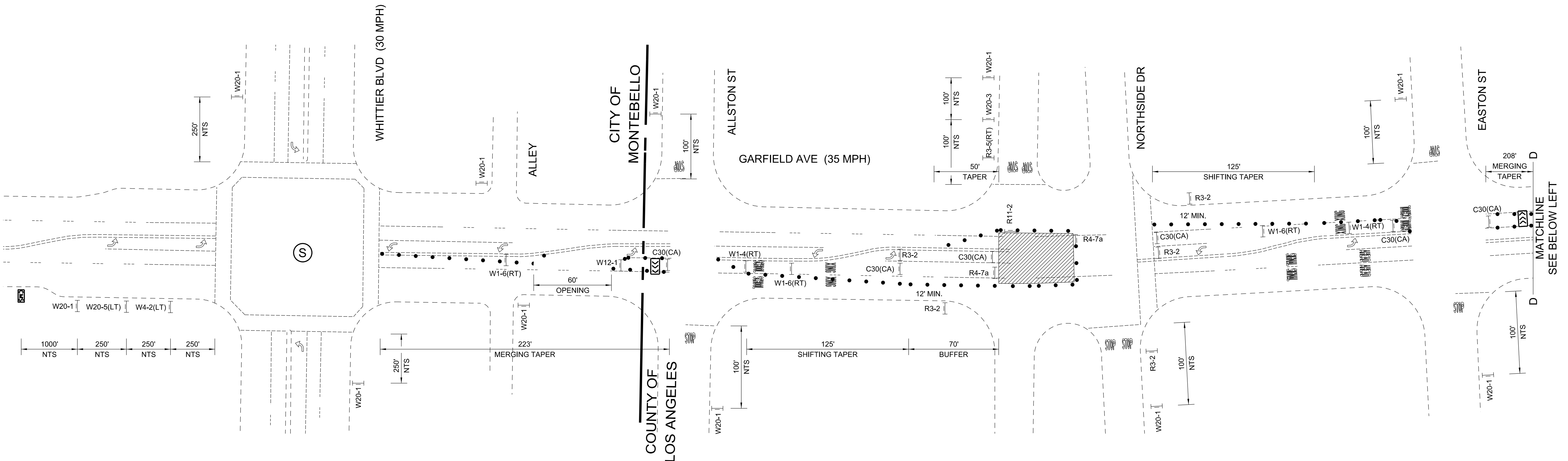
SUBMITTED:	C 66741
BY: <i>Jasper Junio</i>	1/22/19
DATE	
APPROVED:	
BY: <i>[Signature]</i>	5/30/19
DATE	

LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
 TRAFFIC AND LIGHTING DIVISION

TRAFFIC CONTROL PLAN
 EAST LOS ANGELES SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 PROJECT ID NO. WMU0000010

SCALE: 1"=40' SHEET 6 OF 8

PHASE V



LEGEND:

	- SIGN ON TYPE III BARRICADE WITH FLASHING BEACON
	- DELINEATOR WITH WHITE REFLECTIVE TAPE
	- TRAFFIC SIGNAL
	- WORK AREA
	- FLASHING ARROW SIGN (FAS)

DRAFTER: S. ROBERTSON
 DESIGNER: S. ROBERTSON
 CHECKER: J. JUNIO
 CADD PROJECT FILE NAME: WMU000010 - ELA_Median_Repurposing_ICP.dgn



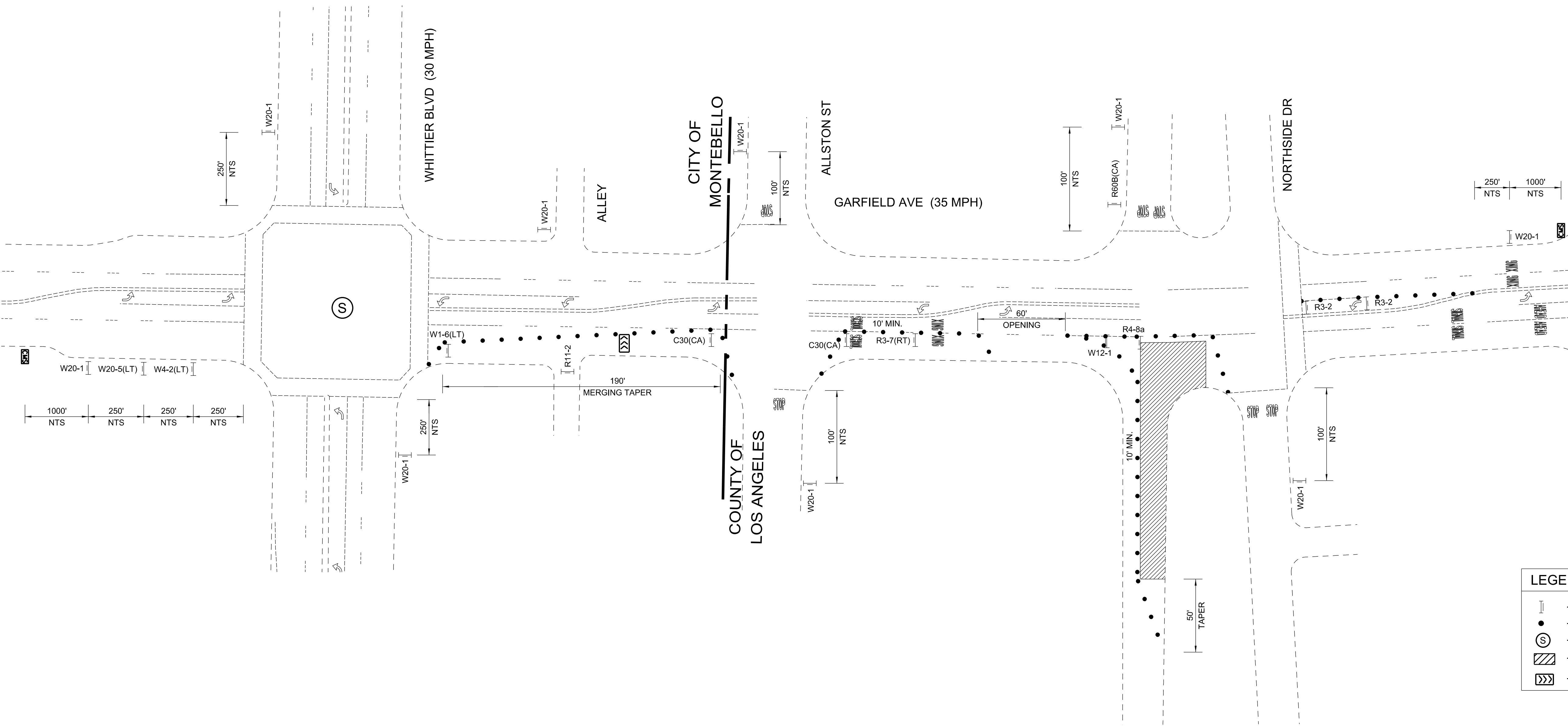
SUBMITTED: C 66741
 BY: *Jasper Junio* 1/22/19
 DATE:
 APPROVED: *Ruban Cruz*
 BY: 1/22/19
 DATE:

LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
 TRAFFIC AND LIGHTING DIVISION

TRAFFIC CONTROL PLAN
 EAST LOS ANGELES SUSTAINABLE MEDIAN
 STORMWATER CAPTURE PROJECT
 PROJECT ID NO. WMU0000010

SCALE: 1"=40' SHEET 7 OF 8

PHASE VI



LEGEND:

	- SIGN ON TYPE III BARRICADE WITH FLASHING BEACON
	- DELINEATOR WITH WHITE REFLECTIVE TAPE
	- TRAFFIC SIGNAL
	- WORK AREA
	- FLASHING ARROW SIGN (FAS)

DRAFTER: S. ROBERTSON
 DESIGNER: S. ROBERTSON
 CHECKER: J. JUNIO
 CADD PROJECT FILE NAME: WMU000010 - ELA_Median_Repurposing_ICP.dgn



SUBMITTED:	C 66741
BY: <i>Jasper Junio</i>	1/22/19
DATE:	
APPROVED:	
BY: <i>Julian Cruz</i>	1/22/19
DATE:	

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS TRAFFIC AND LIGHTING DIVISION	
TRAFFIC CONTROL PLAN EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT PROJECT ID NO. WMU000010	
SCALE: 1"=40'	SHEET 8 OF 8