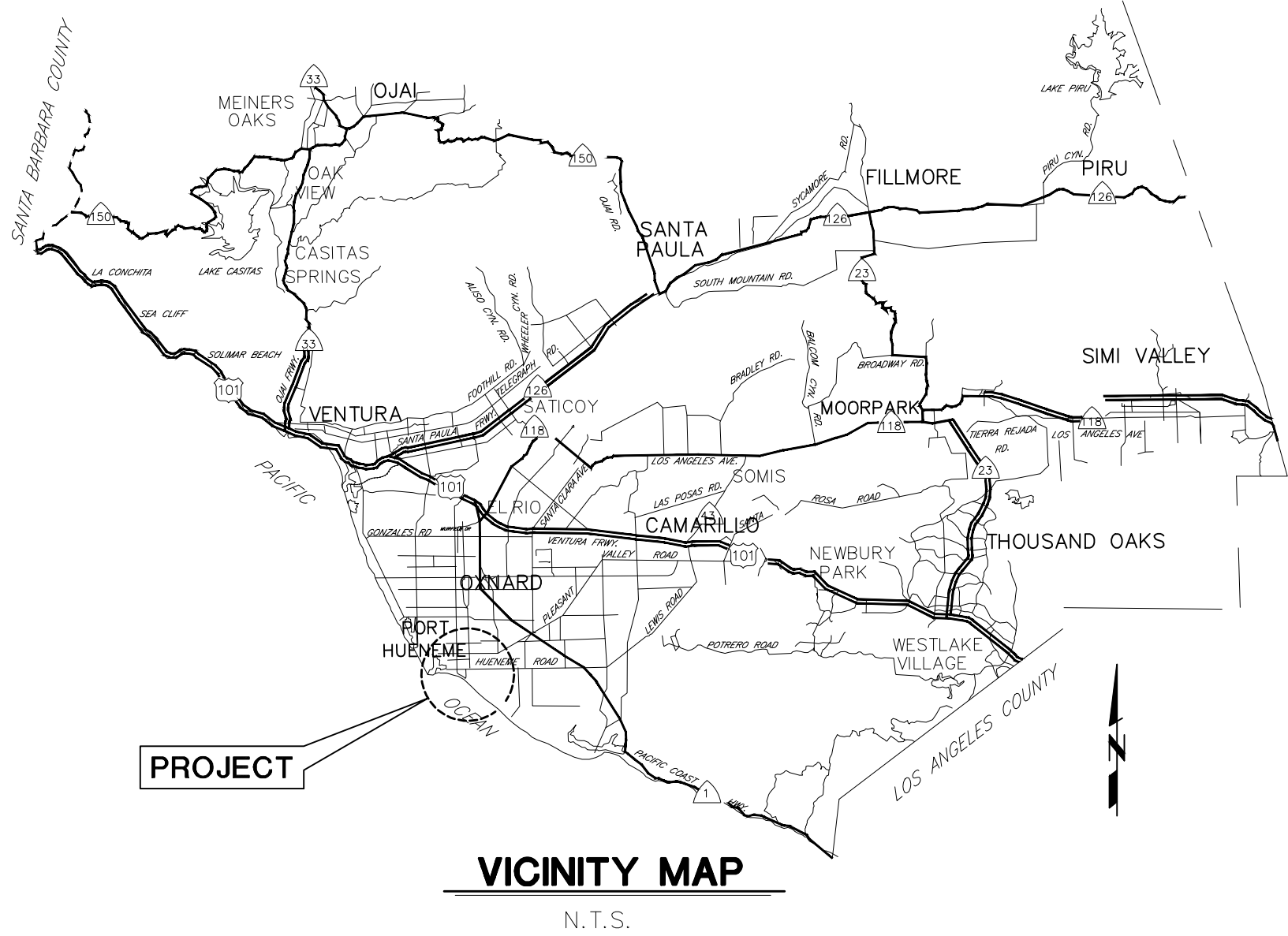


VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE
IN THE CITY OF OXNARD



GENERAL NOTES

- ELEVATIONS SHOWN ARE IN US FEET, NGVD 1929, SCRP 1980
- STATIONS SHOWN ON DRAWINGS ARE ALONG CENTERLINE OF CONSTRUCTION.
- EGL AND HGL ARE BASED ON THE DESIGN DATA HEREON AND ARE SHOWN FOR FUTURE REFERENCE BY THE DISTRICT ONLY.
- NUMBERS IN $\bigcirc$ INDICATE BID ITEMS UNDER WHICH PAYMENT WILL BE MADE.
- LETTERS AND NUMBERS IN $\ominus$ INDICATE THE DETAIL CALL-OUT AND SHEET ON WHICH REFERENCE DETAIL IS SHOWN.
- NUMBERS IN $\triangle$ REFER TO NOTES ON THE SAME SHEET UNLESS OTHERWISE NOTED.
- TREES DESIGNATED BY $\otimes$ SHALL BE REMOVED. ALL OTHER TREES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. TREES ARE SHOWN AS KNOWN TO EXIST AT TIME OF SURVEY, IN SEPTEMBER 2009.
- TOPOGRAPHY AND CROSS SECTIONS FOR THIS PROJECT WERE TAKEN FROM SURVEYS PERFORMED IN SEPTEMBER 2009 AND NOVEMBER 2013.
- SOIL TEST BORINGS AND CPTS FOR THE PROJECT WERE MADE IN SEPTMEBER 2012, AND THEIR LOCATION IS MARKED BY THE SYMBOL $\oplus$ FOR BORINGS AND $\blacktriangledown$ FOR CPTS. SUBSURFACE SOIL INVESTIGATION RESULTS ARE FURNISHED FOR INFORMATION ONLY, IN ACCORDANCE WITH SUBSECTION 2-7 OF THE STANDARD SPECIFICATIONS, AND NO WARRANTY IS MADE THEREFOR.
- ALL EXISTING IMPROVEMENTS SHALL REMAIN AND SHALL BE PROTECTED IN-PLACE UNLESS OTHERWISE NOTED. ANY DAMAGED IMPROVEMENTS SHALL BE REPLACED IN KIND TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
- SYMBOL $\triangle$ INDICATES THE LOCATION OF THE HORIZONTAL AND VERTICAL CONTROL POINTS.
- UTILITIES ARE SHOWN AS KNOWN TO EXIST AT TIME OF SURVEY. UTILITIES MAY HAVE BEEN OMITTED, MISPLACED, AND/OR RELOCATED. CONTRACTOR SHALL EXERCISE CARE AND SHALL PROTECT ALL UTILITIES IN-PLACE UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL NOTIFY UTILITY OWNERS A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK IN AREAS AFFECTING THEIR FACILITIES:

SOUTHERN CALIFORNIA EDISON POWER	TEL. NO. (805) 654-7215
SOUTHERN CALIFORNIA EDISON STREET LIGHTS	TEL. NO. (805) 654-7323
CITY OF OXNARD PUBLIC WORKS WATER/SAN	TEL. NO. (805) 385-8052
CITY OF OXNARD PUBLIC WORKS TRAFFIC	TEL. NO. (805) 200-5258
SOUTHERN CALIFORNIA GAS COMPANY	TEL. NO. (818) 701-2539
CITY OF PORT HUENEME	TEL. NO. (805) 986-6658
FRONTIER CABLE	TEL. NO. (805) 443-7550

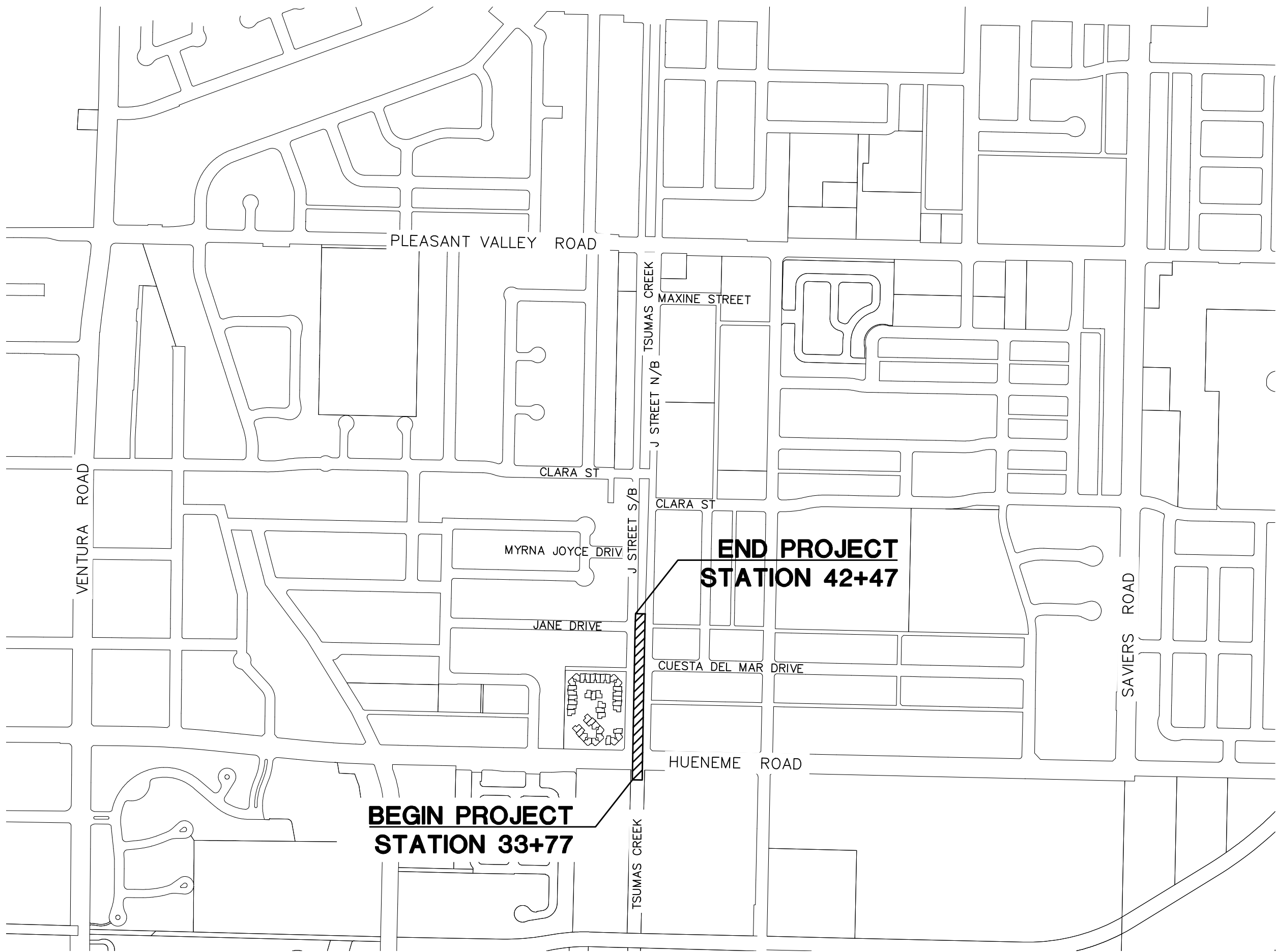
SKYLAR GRAYBILL
JIM OSBORNE
ASITHA WITHANAGE
PETE WESSEL
MARICRUZ DE LA TORRE
CHARLES CABLE
DALE QUOLAS

UNDERGROUND SERVICE ALERT

1-800-422-4133
CALL USA/SC
FOR UNDERGROUND LOCATION
2 WORKING DAYS BEFORE YOU DIG

HYDROLOGY

Q50 (CFS)	Q100 (CFS)
1,311	1480



REFERENCE DOCUMENTS

VENTURA COUNTY WATERSHED PROTECTION DRAWINGS
Y-2-0008, Y-2-0150, Y-2-3705
REDWOOD TRUNK SEWER
DRAWING NOS.
G-4, C-1, C-2, C-3
C-11, C-45, C-71, C-72

CITY OF OXNARD
STORM ATLAS
DRAWING NOS: M-34

GAS 2002
DRAWING NOS.:
VCO 1482-1

ADELPHIA — OXNARD MUGU
NODE: 749-009

SOUTHERN CALIFORNIA EDISON
CONSTRUCTION MAP 103+00
ORMOND BEACH TO PORT HUENEME
DRAWING NOS:
5107969-8, SHEET M

VERIZON
WIRE CENTER
0749 MUGU
DRAWING NO:
F1101B

INDEX TO SHEETS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	SITE MAP AND SOIL BORINGS
3.	PLAN AND PROFILE
4.	RC TRIPLE BOX CULVERT DETAILS
5.	RCB CULVERT WINDOW DETAILS
6.	RC TRANSITION STRUCTURE DETAILS
7.	UNDERGROUND UTILITY DETAILS
8.	MISCELLANEOUS DETAILS —
9.	MISCELLANEOUS DETAILS —2
10.	SIDE DRAINS PLAN AND PROFILE
11.	SUBDRAIN DETAILS
12.	FENCE DETAILS
13.	STREET IMPROVEMENTS GENERAL NOTES AND DETAILS
14.	STREET IMPROVEMENTS TYPICAL SECTIONS
15.	STREET IMPROVEMENT PLAN
16.	STREET IMPROVEMENTS DETAILS — CURB AND PAVEMENT ELEVATIONS
17.	TRAFFIC SIGNAL MODIFICATION PLAN
18.	STAGE CONSTRUCTION TRAFFIC CONTROL PLAN — GENERAL NOTES
19.	STAGE CONSTRUCTION TRAFFIC CONTROL PLAN — STAGE 1
20.	STAGE CONSTRUCTION TRAFFIC CONTROL PLAN — STAGE 2
21.	STAGE CONSTRUCTION TRAFFIC CONTROL PLAN — STAGE 3
22.	STAGE CONSTRUCTION TRAFFIC CONTROL PLAN — STAGE 4
23.	SIGNING AND STRIPING PLAN
24.	CROSS SECTIONS STA 33+50 TO 37+00
25.	CROSS SECTIONS STA 37+50 TO 41+00
26.	CROSS SECTIONS STA 41+50 TO 42+40, WALL LOCATION DETAILS, AND RETAINING WALL DETAILS
27.	HORIZONTAL AND VERTICAL CONTROL
28.	TEMPORARY TRAFFIC SIGNAL PLANS — PHASE 1
29.	TEMPORARY TRAFFIC SIGNAL PLANS — PHASE 2
30.	TEMPORARY TRAFFIC SIGNAL PLANS — PHASE 3

INDEX OF STANDARD PLANS

USED BY REFERENCE

CITY OF OXNARD STANDARD PLATES (COSP)
116 COMMERCIAL & INDUSTRIAL DRIVEWAYS
302 VALVE ANCHOR
303 VALVE BOX INSTALLATION-REPLACED 10-6-14
307 BLOWOFF INSTALLATION
308 COMBINATION AIR-VACUUM VALVE INSTALLATION
313 RELOCATION OF WATER MAIN & FIRE HYDRANT LATERALS CONDITION II
320 THRUST BLOCKING
501 CURB OPENING CATCH BASIN
506 DETAIL OF CATCH BASIN OPENING
507 CATCH BASIN REINFORCEMENT
508 MONOLITHIC CATCH BASIN CONNECTION
509 LOCAL DEPRESSION FOR SIDE OPENING CATCH BASIN
510 CATCH BASIN MANHOLE FRAME & COVER
512 CONCRETE COLLAR
515 MANHOLE NO. 3IN CONCRETE BOX STORM DRAIN
516 CONCRETE RINGS, REDUCER FOR MANHOLE SHAFT
517 MANHOLE FRAME & COVER
525 JUNCTION STRUCTURE NO.5
602 STANDARD TRENCH BACKFILL REQUIREMENT
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)
600-3 CHAINLINK FENCE AND GATES
610-3 REINFORCED RETAINING WALL TYPE 1
615-4 REINFORCED RETAINING WALL TYPE 6
617-3 REINFORCED RETAINING WALL DETAILS



PROJECT SITE PLAN

500 0 500 1000
SCALE OF FEET

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO.
WP21-01
PROJ. NO.
82323

TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE
GENERAL PLAN

SHEET 1
OF 30
DRAWING SET NO:
WP-2-386

PLOT DATE: 8/26/20

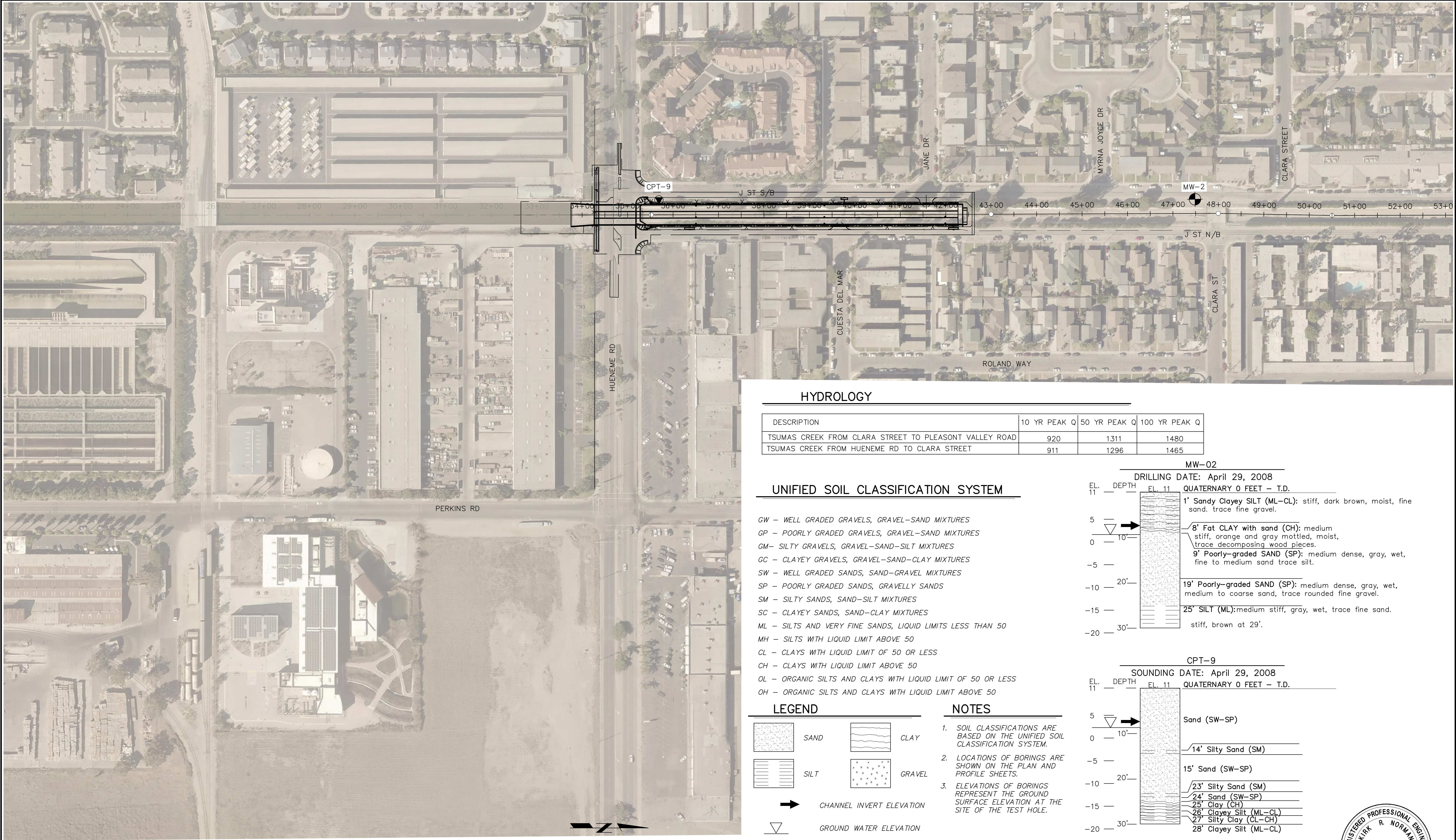
SAVE DATE: 8/20/20 125936

K:\PROJECTS\ZONE2\TŠUMAS\CHUMASH\CREEK\82323_TŠUMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\J STREET 2 - SHT 1.DWG

D				
C				
B				
A				
△	REVISION	DESCRIPTION	APP.	DATE

CITY OF OXNARD PUBLIC WORKS CAPITAL PROJECTS MANAGEMENT DIVISION
APPROVED: _____ CITY ENGINEER, R.C.E. EXP. EXP_DATE _____

WATERSHED DEPUTY DIRECTOR	DATE
WATERSHED DIRECTOR	DATE
AGENCY DIRECTOR	DATE



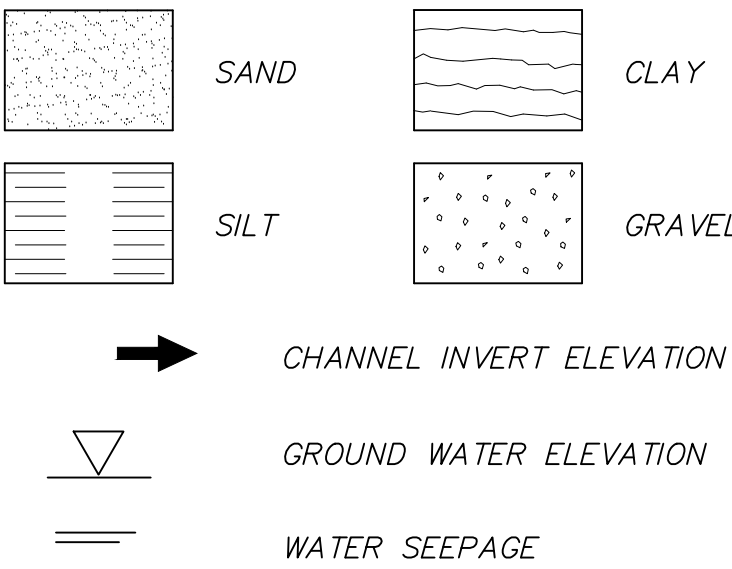
HYDROLOGY

DESCRIPTION	10 YR PEAK Q	50 YR PEAK Q	100 YR PEAK Q
TŠUMAS CREEK FROM CLARA STREET TO PLEASONT VALLEY ROAD	920	1311	1480
TŠUMAS CREEK FROM HUENEME RD TO CLARA STREET	911	1296	1465

UNIFIED SOIL CLASSIFICATION SYSTEM

- GW – WELL GRADED GRAVELS, GRAVEL–SAND MIXTURES
GP – POORLY GRADED GRAVELS, GRAVEL–SAND MIXTURES
GM– SILTY GRAVELS, GRAVEL–SAND–SILT MIXTURES
GC – CLAYEY GRAVELS, GRAVEL–SAND–CLAY MIXTURES
SW – WELL GRADED SANDS, SAND–GRAVEL MIXTURES
SP – POORLY GRADED SANDS, GRAVELLY SANDS
SM – SILTY SANDS, SAND–SILT MIXTURES
SC – CLAYEY SANDS, SAND–CLAY MIXTURES
ML – SILTS AND VERY FINE SANDS, LIQUID LIMITS LESS THAN 50
MH – SILTS WITH LIQUID LIMIT ABOVE 50
CL – CLAYS WITH LIQUID LIMIT OF 50 OR LESS
CH – CLAYS WITH LIQUID LIMIT ABOVE 50
OL – ORGANIC SILTS AND CLAYS WITH LIQUID LIMIT OF 50 OR LESS
OH – ORGANIC SILTS AND CLAYS WITH LIQUID LIMIT ABOVE 50

LEGEND



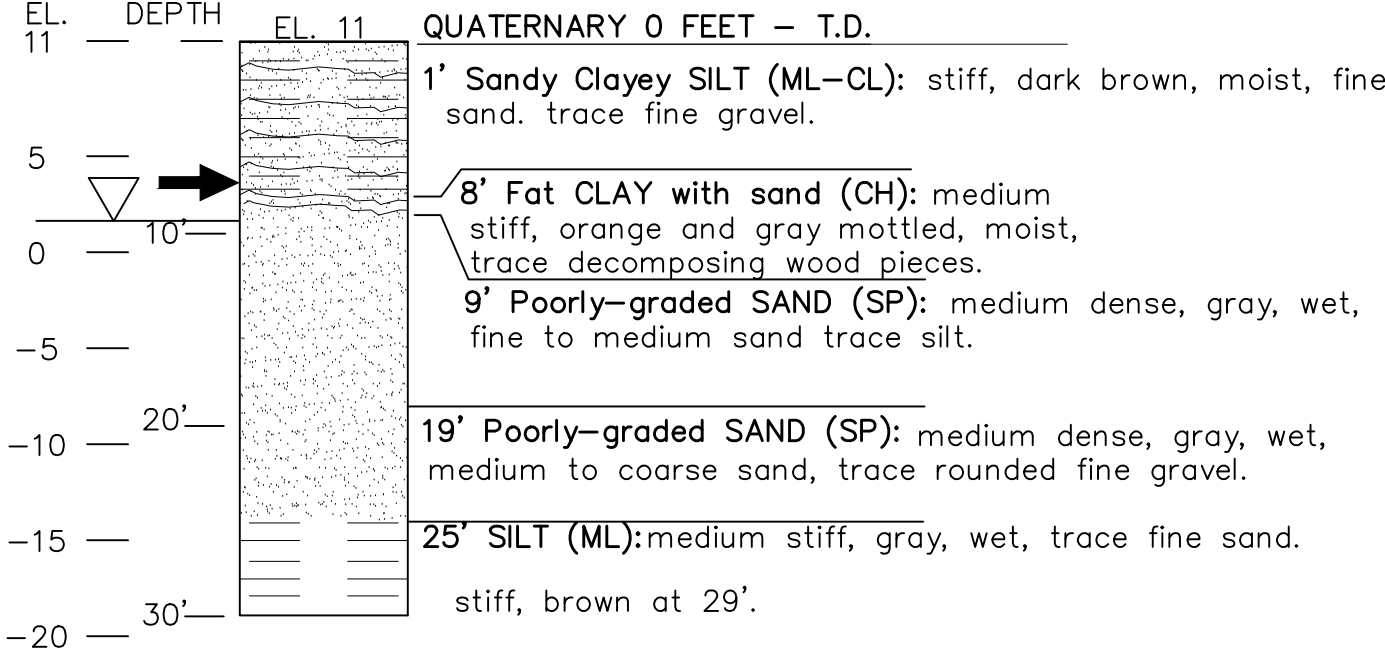
NOTES

- SOIL CLASSIFICATIONS ARE BASED ON THE UNIFIED SOIL CLASSIFICATION SYSTEM.
- LOCATIONS OF BORINGS ARE SHOWN ON THE PLAN AND PROFILE SHEETS.
- ELEVATIONS OF BORINGS REPRESENT THE GROUND SURFACE ELEVATION AT THE SITE OF THE TEST HOLE.

MW-02

DRILLING DATE: April 29, 2008

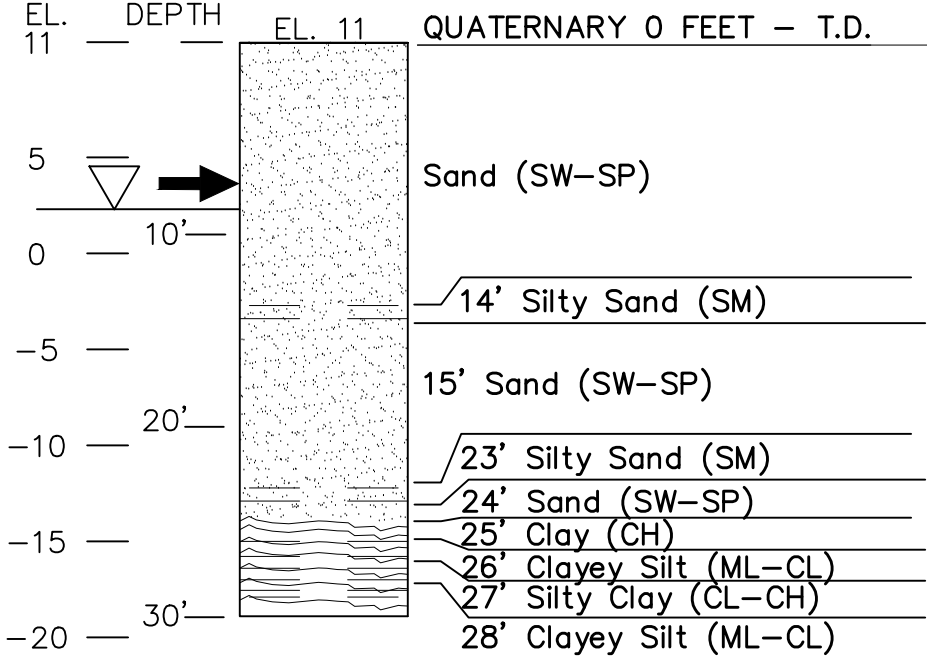
QUATERNARY 0 FEET – T.D.



CPT-9

SOUNDING DATE: April 29, 2008

QUATERNARY 0 FEET – T.D.



SAVE DATE: 8/11/20 DOKTOROV, NATALIYA K:\PROJECTS\ZONE2\TŠUMAS(CHUMASH)\CREEK\82323 TŠUMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DRAWINGS\FINAL_PLANS\2 SITE MAP - HV CONTROL AND SOIL BORINGS.DWG

				J MUELLER	<i>Kirk Norman</i>	8/26/2020	VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION	SPEC. NO.	TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS HUENEME ROAD TO UPSTREAM OF JANE DRIVE SITE MAP AND SOIL BORINGS	SHEET 2
C				DESIGNED	WATERSHED PROJECT MANAGER	DATE		WP21-01		OF 30
B				JM / ND						
A				DRAWN	WATERSHED DEPUTY DIRECTOR	DATE		PROJ. NO.		DRAWING SET NO.
△	REVISION	DESCRIPTION	APP.	DATE	K NORMAN			82323		WP-2-386
				CHECKED	WATERSHED DIRECTOR	DATE				

LEGEND:

STRUCTURAL NOTE

STRUCTURAL NOTES:

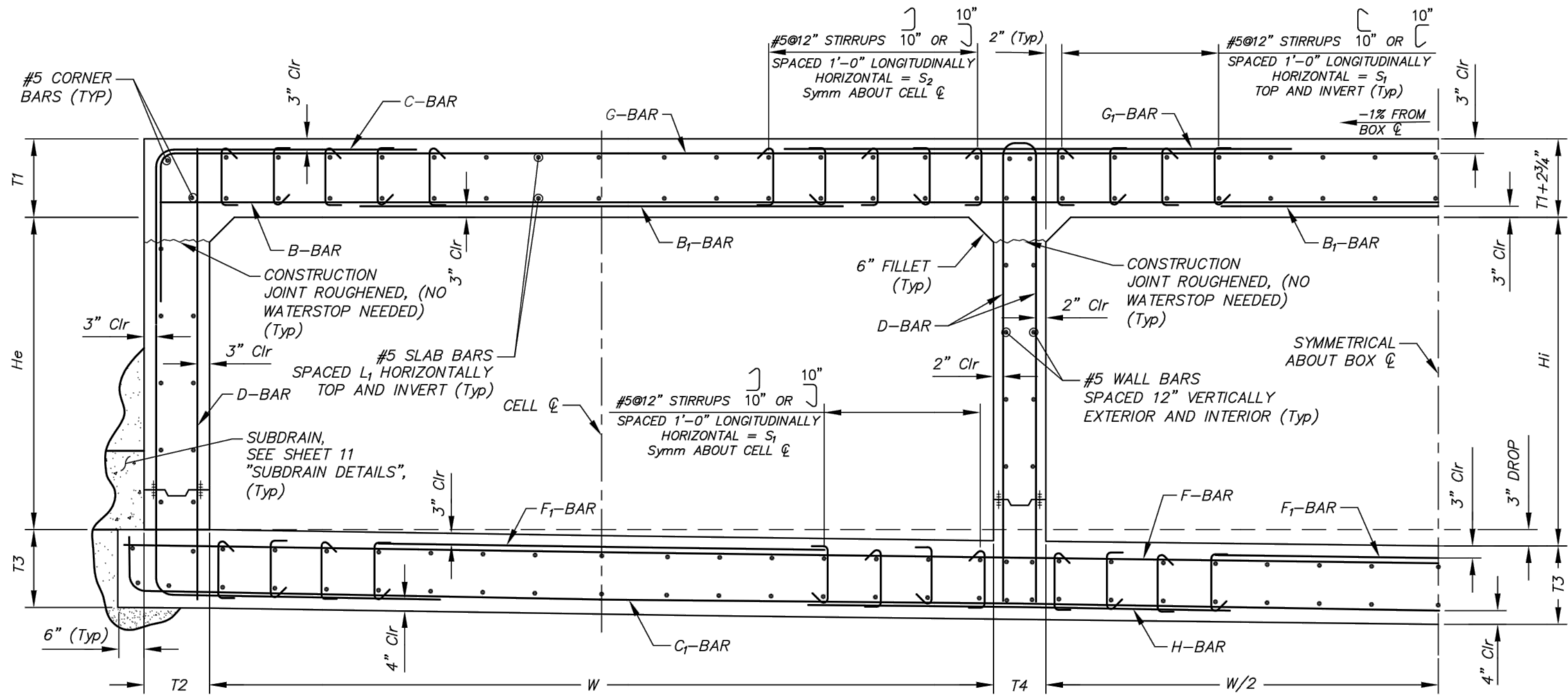
- CONCRETE CONSTRUCTION SHALL CONFORM TO STANDARD SPECIFICATIONS AND PROJECT SPECIAL PROVISIONS.
- DIMENSIONS FROM FACE OF CONCRETE TO REINFORCING BARS ARE TO THE NEAREST EDGE OF THE BAR AND SHALL BE THREE INCHES (3" CLEAR) UNLESS OTHERWISE SHOWN.
- THE RC BOX CONDUIT DIMENSIONS SHALL BE MEASURED IN A HORIZONTAL AND VERTICAL DIRECTION ABOUT THE CENTERLINE OF THE STRUCTURE. OFFSET DIMENSIONS SHALL BE AT RIGHT ANGLES FROM THE CENTERLINE.
- REINFORCING DETAILS SHALL CONFORM TO THE LATEST EDITION OF ACI 318.
- TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED AS SHOWN. KEYWAYS (IN BOTH SLABS AND WALLS) SHALL BE PLACED AT THE END OF EACH POUR, SPACING SHALL NOT EXCEED 50 FEET NOR BE LESS THAN 10 FEET MEASURE ALONG THE CENTERLINE OF CONSTRUCTION.
- PROVIDE A 1 1/2 INCH WIDE BY 3/4 INCH DEEP TRIANGULAR FORMED GROOVE IN THE INSIDE FACE OF THE WALLS, THE BOTTOM OF THE TOP SLAB AND THE TOP OF THE BOTTOM SLAB AT THE TRANSVERSE CONSTRUCTION JOINT.
- LONGITUDINAL REINFORCING BARS SHALL BE CONTINUOUS AND EXTEND THROUGH ALL CONSTRUCTION JOINTS, UNLESS OTHERWISE SHOWN.
- AT THE BEGINNING AND END OF ALL POURS, A CURTAIN OF REINFORCEMENT COMPOSED OF B, B₁, C, C₁, D, F, G, G₁ AND H BARS SHALL BE PLACED THREE INCHES FROM THE TRANSVERSE CONSTRUCTION JOINT
- TWO LONGITUDINAL BARS SHALL BE PLACED AT EACH CORNER LOCATION AS SHOWN ON THE DETAIL. THE REMAINING LONGITUDINAL BARS SHALL BE EQUALLY SPACED BETWEEN THE CORNER BARS WITH A MAXIMUM SPACING OF 18 INCHES IN EACH FACE OF THE SLABS AND WALLS, AND NEED NOT CORRESPOND TO THE NUMBER OR LOCATION SHOWN ON THE DETAIL. SEE THE TABLE FOR LONGITUDINAL BAR TOTALS.
- TYPE 'E' JOINT SEALANT SHALL BE INSTALLED IN 1 1/2 INCH WIDE BY 3/4 INCH DEEP FORMED GROOVE IN THE TOP OF THE TOP SLAB. SAND BLAST THE SIDES OF THE GROOVE AND PROVIDE A NON-BONDING AGENT IN THE BOTTOM OF THE GROOVE BEFORE INSTALLATION OF THE JOINT SEALANT.
- EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE ROUNDED OR BEVELED.
- CONSTRUCTION JOINTS SHALL HAVE A 6" PVC WATERSTOP, AS MANUFACTURED BY "SIKA / GREENSTREAK" (MODEL NO. 783 - FLAT RIBBED) OR AN APPROVED EQUAL. THE WATERSTOP SHALL BE TIED TO THE OUTSIDE OF THE REINFORCING STEEL AT THE TOP AND BOTTOM WITH ONE PIECE OF WIRE AT APPROXIMATELY 1'-0" SPACING, PUNCHING SHALL NOT BE ALLOWED. THE WATERSTOP SHALL BE CONTINUOUS FOR EACH WALL SECTION.
- ALL LAP SPLICES SHALL CONFORM TO THE LATEST EDITION OF ACI 318. LONGITUDINAL STEEL SHALL BE LAPPED 24 BAR DIAMETERS AT SPLICES. TRANSVERSE STEEL SHALL BE LAPPED USING THE "LAP SCHEDULE" TABLE ON SHEET 5.
- FOR ADDITIONAL REINFORCING AROUND WINDOW OPENINGS SEE "RCB CULVERT WINDOW DETAIL" ON SHEET 5.
- TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE PLACED WITHIN 30 INCHES OF MANHOLE OR JUNCTION STRUCTURE OPENINGS, OR SIDE INLETS UNLESS OTHERWISE SHOWN. JOINTS IN WALLS AND SLABS SHALL BE IN THE SAME PLANE, NO STAGGERING OF JOINTS WILL BE PERMITTED. ALL TRANSVERSE CONSTRUCTION JOINTS SHALL BE NORMAL OR RADIAL TO THE CENTERLINE CONSTRUCTION UNLESS OTHERWISE SHOWN.

REINFORCING STEEL NOTES:

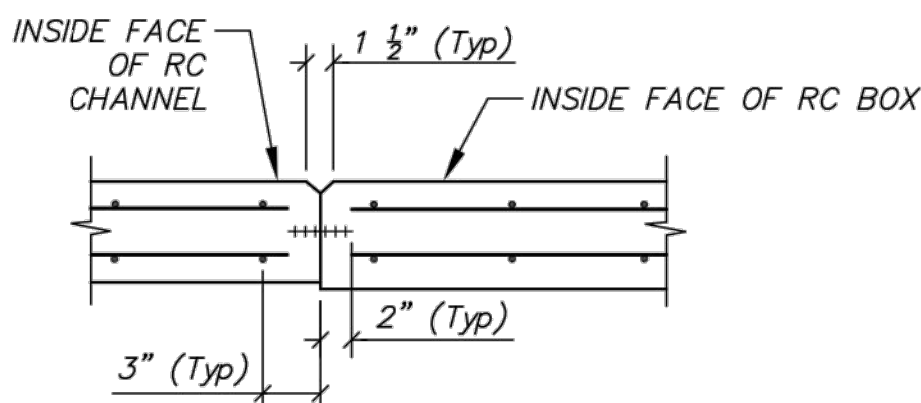
- REINFORCING STEEL CONSTRUCTION SHALL CONFORM TO STANDARD SPECIFICATIONS AND PROJECT SPECIAL PROVISIONS.

DESIGN CRITERIA:

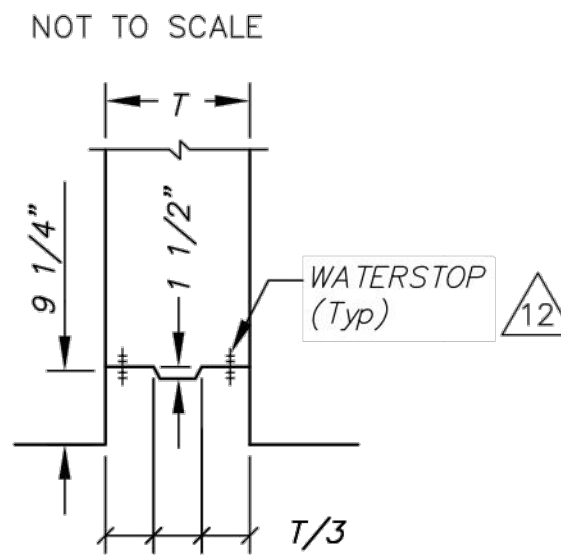
- DESIGN CODES AND REFERENCES:
UNITED STATES ARMY CORPS OF ENGINEERS (USACE) EM 2104
ACI 318-14
AASHTO LRFD 8TH BDS (w/ CALTRANS AMMENDMENTS)
- LIVE LOADING:
SECTION 1:
AASHTO HIGHWAY (PARALLEL AND PERPENDICULAR)
DESIGN TRUCK, DESIGN TANDEM, AND DESIGN LANE
CALTRANS AMMENDMENTS:
PERMIT TRUCK
SECTION 2:
AASHTO MAINTENANCE ACCESS (PARALLEL AND PERPENDICULAR)
HS15-44
- SOIL DESIGN PARAMETERS:
ALLOWABLE SOIL BEARING = 1,500 psf
MODULUS OF SUBGRADE REACTION = 175 pci
- LATERAL SOIL PRESSURE:
AT-REST (Drained) = 60 pcf
AT-REST (Undrained) = 90 pcf
WEIGHT = 130 pcf
- SEISMIC DESIGN DATA:
OBE:
DYNAMIC LATERAL LOAD = 22.5H²
PGA = 0.62g
MCE:
DYNAMIC LATERAL LOAD = 24H²
PGA = 0.70g
- WATER TABLE DESIGN DATA:
FREQUENT FLOOD:
WATER TABLE (Above Invert $\bar{\ell}$) = 4.5 ft
INFREQUENT FLOOD:
WATER TABLE (Below FS) = 0 ft



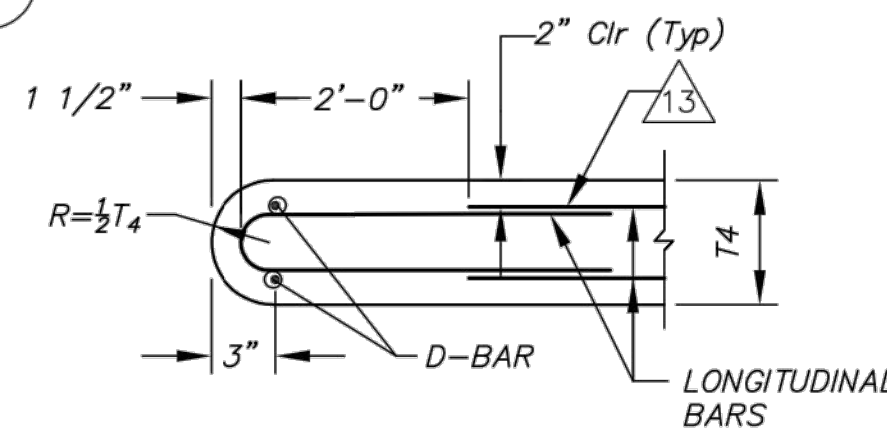
RC TRIPLE BOX CULVERT - TYPICAL SECTION



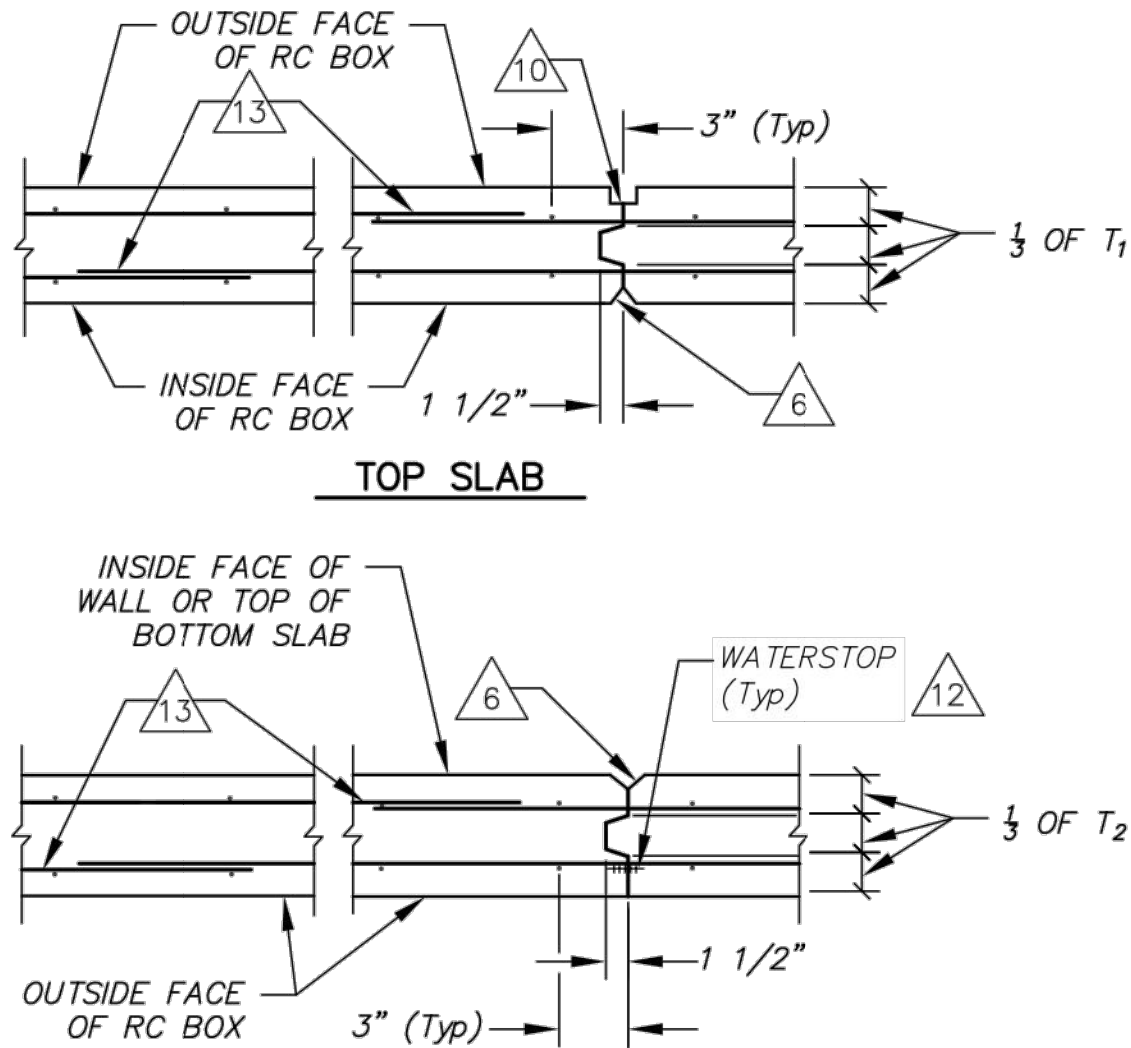
WALLS AND BOTTOM SLAB JOINING RC OPEN CHANNEL



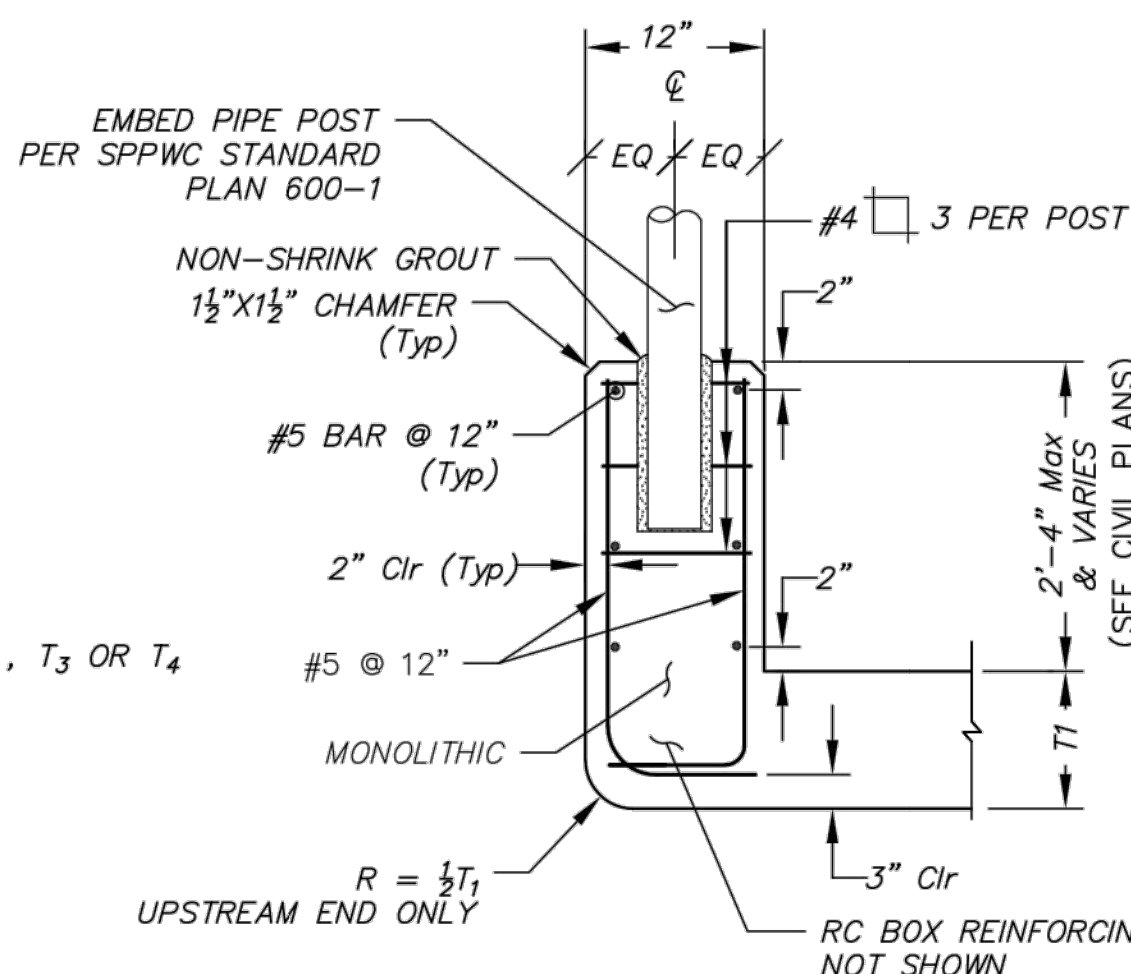
CONSTRUCTION JOINT DETAIL



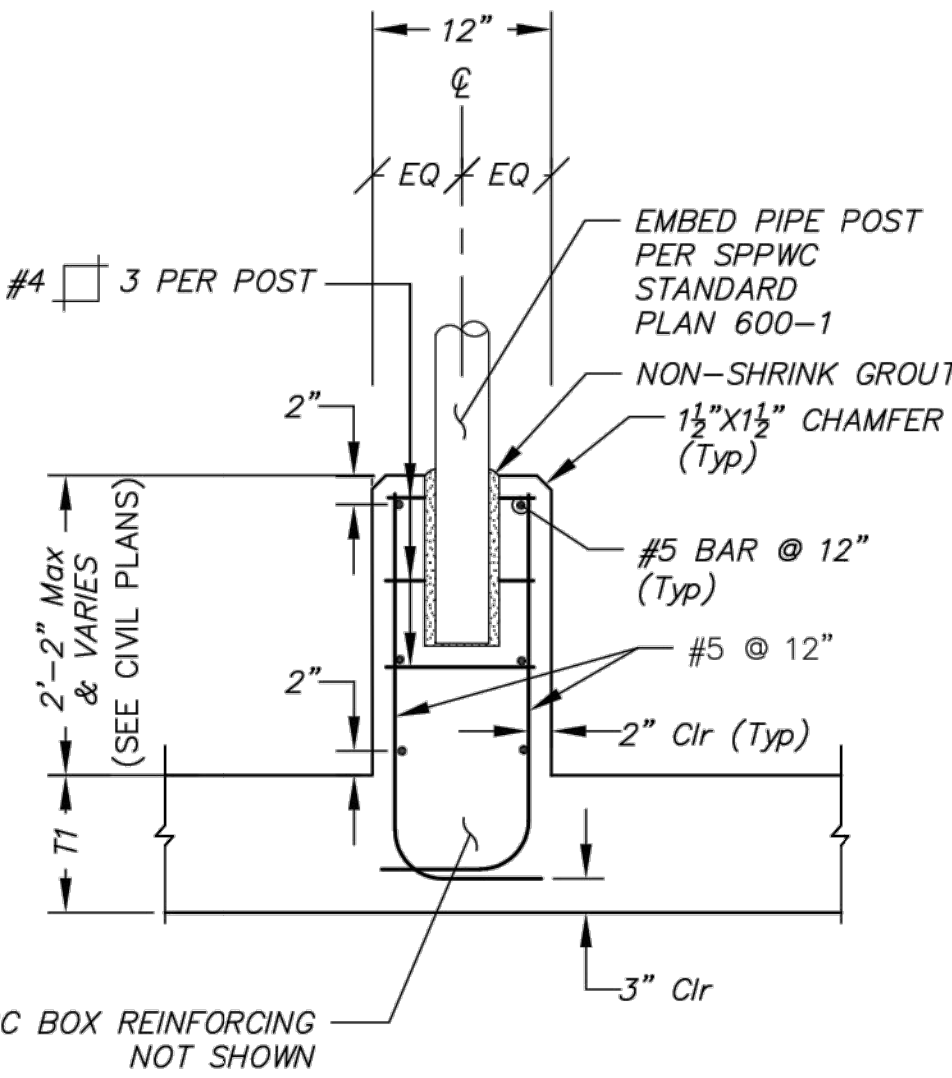
INTERNAL WALL END DETAIL



TRANSVERSE CONSTRUCTION JOINT DETAILS



PARAPET - HEADWALL DETAIL 1



PARAPET - HEADWALL DETAIL 2

RC TRIPLE BOX CULVERT TABLE			
SECTION	1	2	
LIVE LOAD	HL-93 & P15	HS15-44	
BEGIN STATION	34+26.00	35+42.00	
END STATION	35+42.00	42+27.00	
WIDTH	W	13'-6"	13'-6"
He (Exterior Walls)	6'-3"	6'-3"	
Hi ($\bar{\ell}$ Box)	6'-6"	6'-6"	
THICKNESS (INCHES)	TOP SLAB	T ₁	18"
	SIDE WALL	T ₂	15"
	BOTTOM SLAB	T ₃	17"
	INTERNAL WALL	T ₄	12"
B BAR	BAR NO. & SPACING	#6@12	#6@12
	LENGTH	44'-6"	44'-6"
B ₁ BAR	BAR NO. & SPACING	#6@12	#5@12
	LENGTH (from $\bar{\ell}$ of Interior Cell, Each way)	4'-9"	2'-9"
C BAR	BAR NO. & SPACING	#6@12	#6@12
	LENGTH (from $\bar{\ell}$ of Exterior Cell, Each way)	5'-6"	4'-3"
C ₁ BAR	BAR NO. & SPACING	#6@12	#6@12
	LENGTH (from $\bar{\ell}$ of Interior Cell, Each way)	4'-0"	2'-6"
D BAR	BAR NO. & SPACING	#6@12	#6@12
	LENGTH (from $\bar{\ell}$ of Exterior Cell, Each way)	4'-0"	2'-6"
F BAR	BAR NO. & SPACING	#6@12	#6@12
	LENGTH (from $\bar{\ell}$ of Interior Cell, Each way)	8'-9"	8'-7"
F ₁ BAR	BAR NO. & SPACING	#6@12	#6@12
	LENGTH (from $\bar{\ell}$ of Exterior Cell, Each way)	4'-0"	2'-6"
G BAR	BAR NO. & SPACING	#6@12	#6@12
	LENGTH (from $\bar{\ell}$ of Interior Cell, Each way)	4'-0"	2'-6"
G ₁ BAR	BAR NO. & SPACING	#6@12	#6@12
	LENGTH (from $\bar{\ell}$ of Exterior Cell, Each way)	4'-0"	2'-6"
H BAR	BAR NO. & SPACING	#6@12	#6@12
	LENGTH (from $\bar{\ell}$ of Interior Cell, Each way)	4'-0"	2'-6"
H ₁ BAR	BAR NO. & SPACING	#6@12	#6@12
	LENGTH (from $\bar{\ell}$ of Exterior Cell, Each way)	4'-0"	2'-6"
S ₁ STIRRUP SPACING		3'-0"	2'-0"
S ₂ STIRRUP SPACING		4'-0"	2'-0"
L ₁ Longitudinal Spacing		10"	12"
NUMBER OF #5 LONGITUDINAL BARS	TOP SLAB	114	90
	BOTTOM SLAB	118	92
	SIDE WALLS (EA)	14	14
	INTERNAL WALLS (EA)	14	14
TOTAL #5 LONGITUDINAL BARS		288	238
CONCRETE QUANTITY (CY/LF)		6.2	5.9
STEEL QUANTITY (LBS/LF)		991	858



PLT DATE: 8/26/20

SAVE DATE: 8/26/20 DOKTOROV, NATALIYA K:\PROJECTS\ZONE2\TSUMAS\CHUMASH\CREEK\82323_TSUMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\STRUCTURAL_DETAILS.DWG
SAVE DATE: 7/30/20 CSTELEA H:\PDATA\169808\CADD\STRUCT\DLV\169808-RCB-TYPICAL SECTION.DWG

REVISION	DESCRIPTION	APP.	DATE
D			
C			
B			
A			

A. LOZANO	DESIGNED	8/26/2020
A. LOZANO	DRAWN	
C. STELEA	CHECKED	

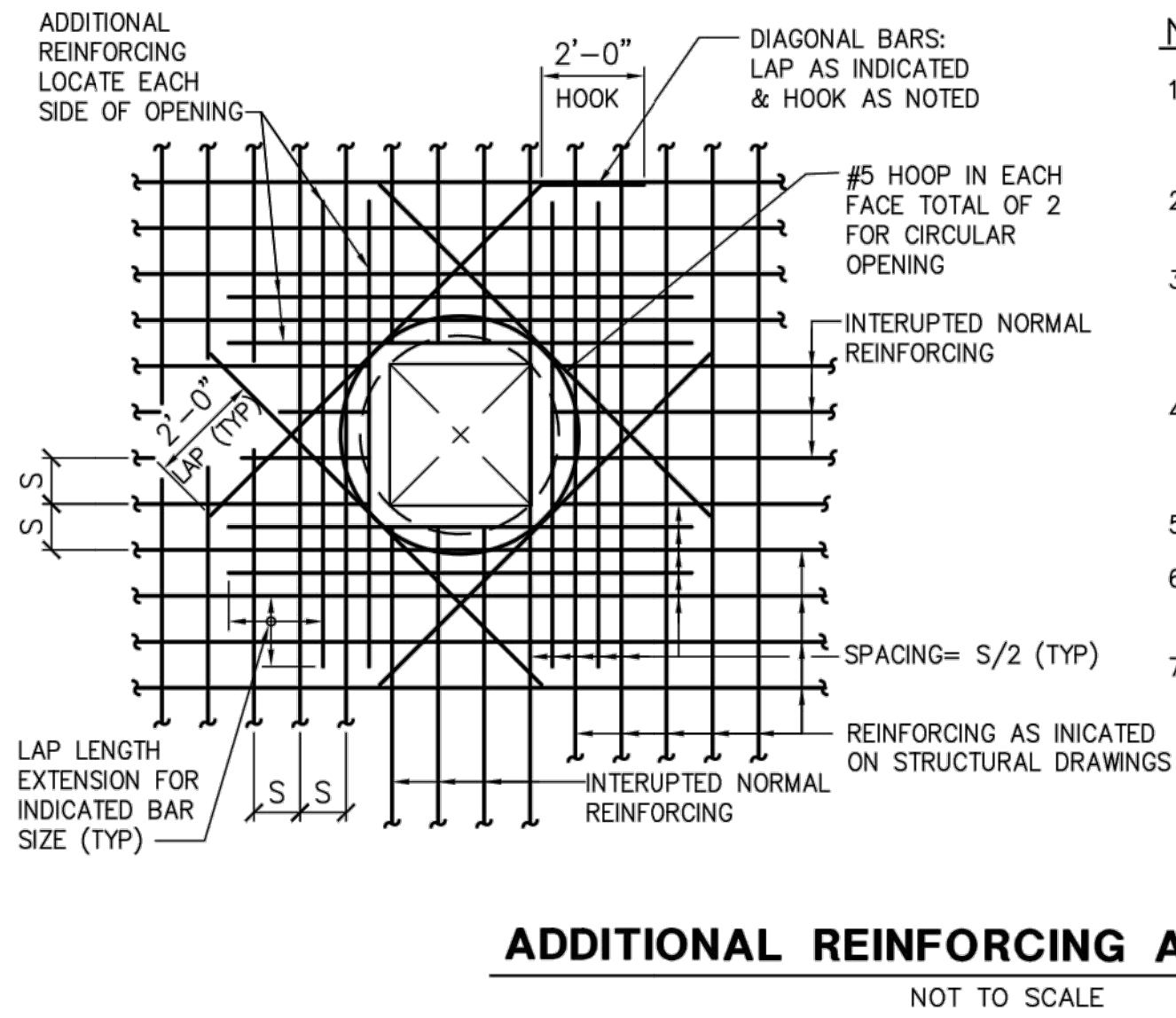
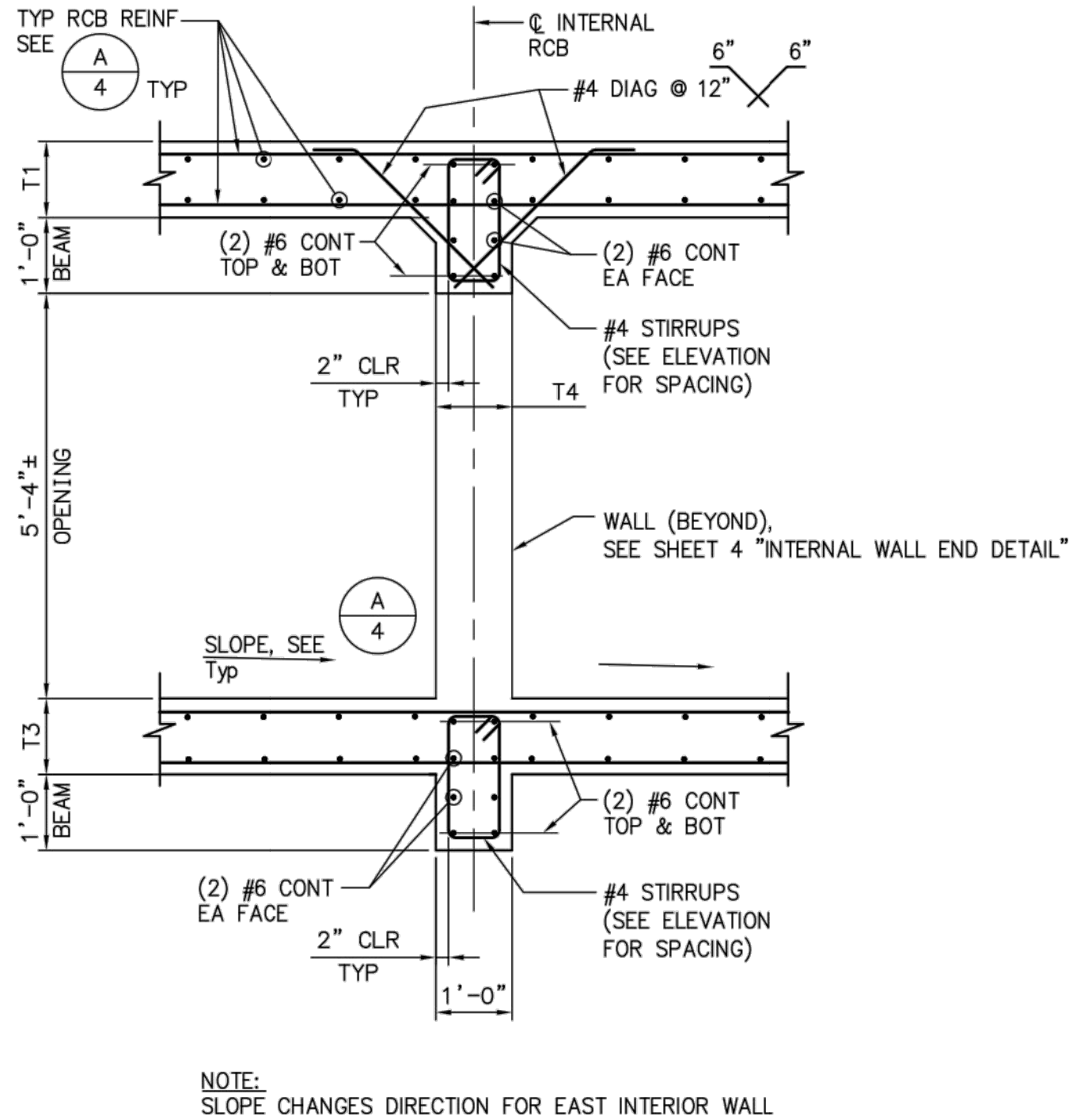
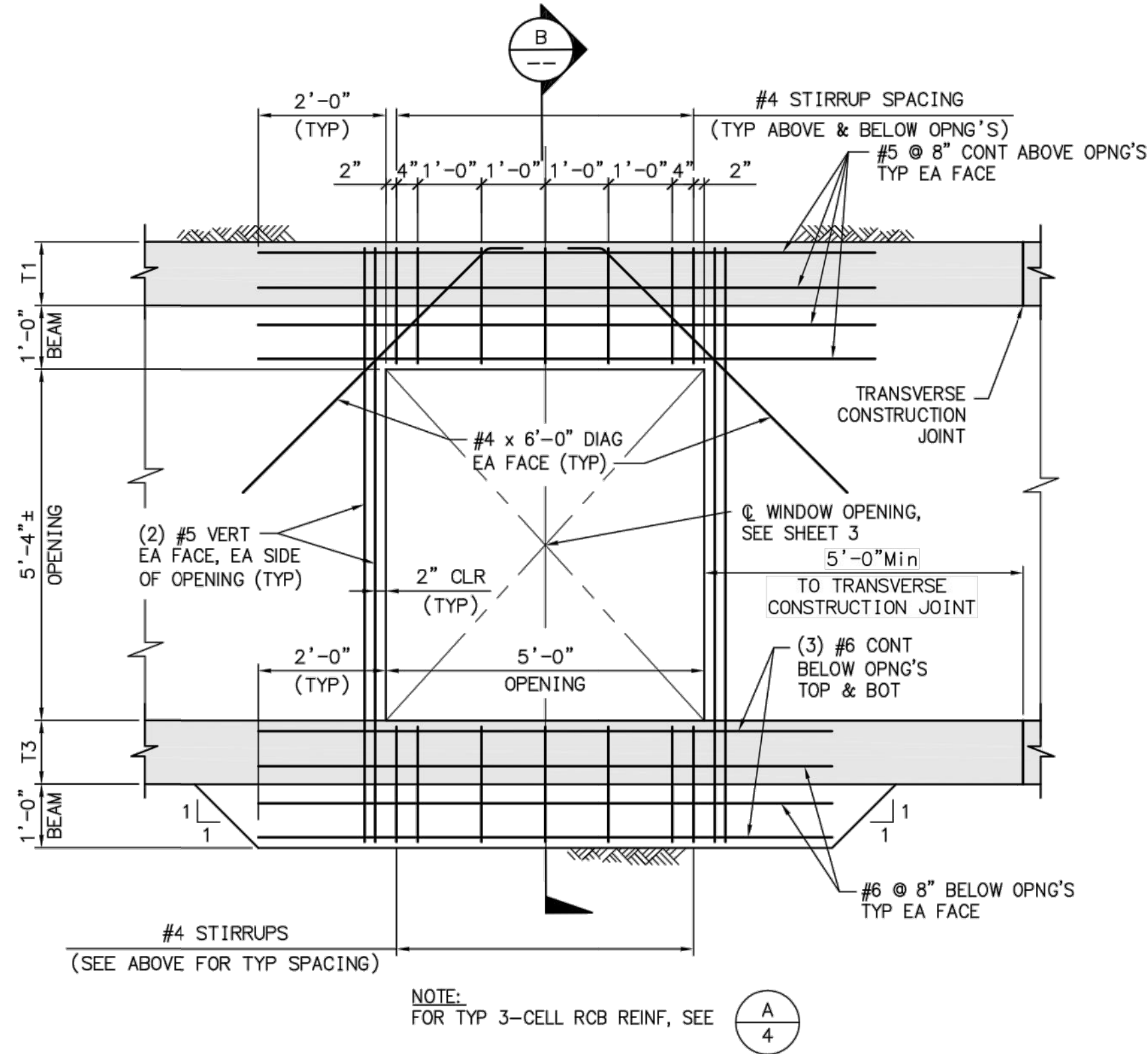
Watershed Project Manager	DATE
Watershed Deputy Director	DATE
Watershed Director	DATE

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO.
WP21-01
PROJ. NO.
82323

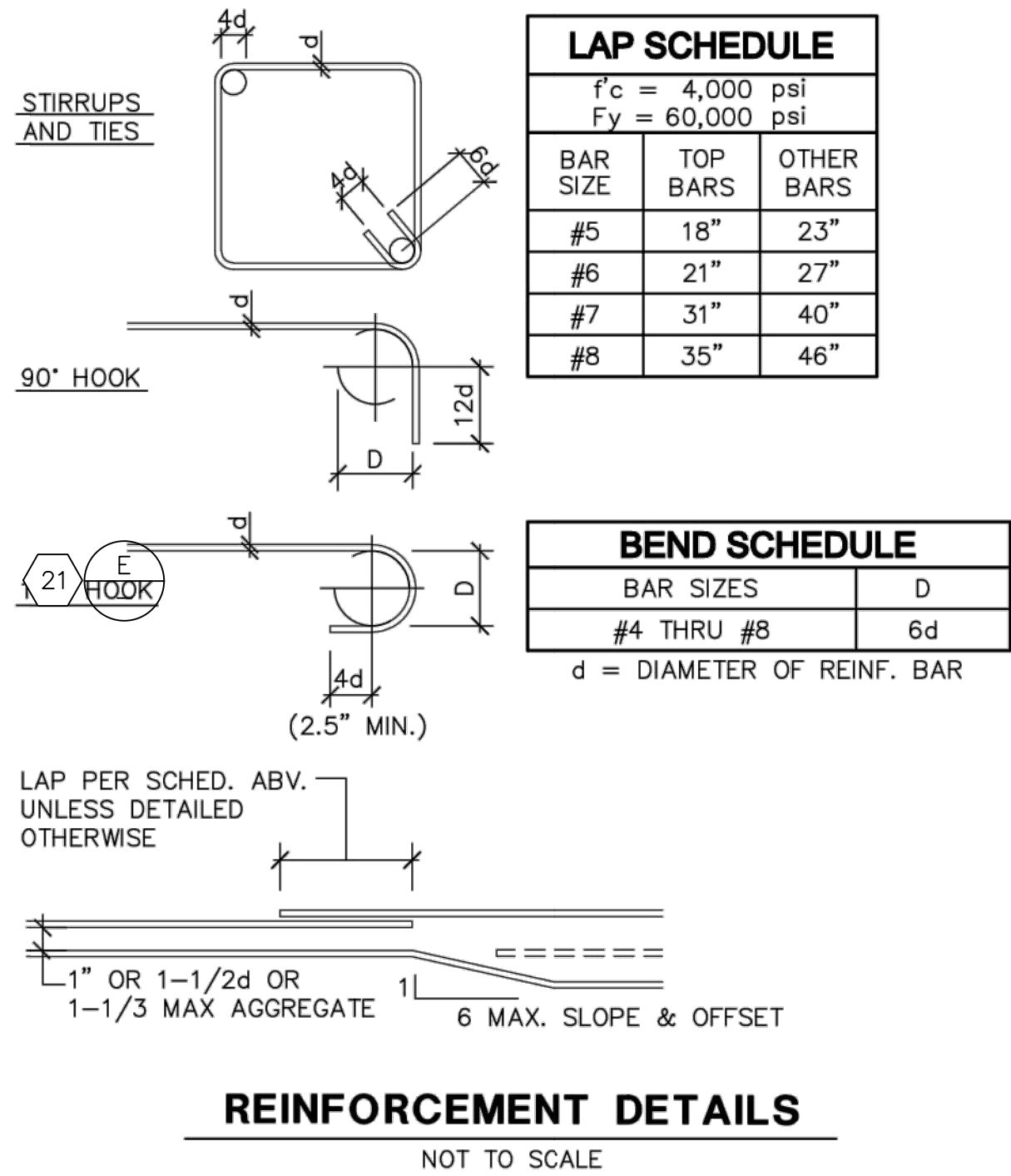
TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUEENEME ROAD TO UPSTREAM OF JANE DRIVE
RC TRIPLE BOX CULVERT DETAILS

SHEET	4
OF	27
DRAWING NO.	WPD-2-386



- NOTES:**
- NUMBER OF ADDITIONAL REINFORCING BARS EACH SIDE OF OPENING SHALL EQUAL 1/2 THE NUMBER OF INTERRUPTED BARS IN EACH LAYER OF REINFORCING.
 - SIZE OF ADDITIONAL REINFORCING BARS TO EQUAL SIZE OF INTERRUPTED REINFORCING BARS.
 - PROVIDE STANDARD HOOK ON BARS IF LAP LENGTH EXTENSION CANNOT BE OBTAINED OR AT JOINTS OR OTHER OBSTRUCTIONS. PLACE ADDITIONAL BARS IN SAME PLANES AS INTERRUPTED REINFORCING.
 - UNLESS NOTED OTHERWISE, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT. LOCATE DIAGONAL IN EACH LAYER OF REINFORCING.
 - PLACE DIAGONAL BARS INSIDE INDICATED REINFORCING.
 - SPECIAL OPENING CONDITIONS SHALL BE AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
 - ALL REINFORCING TO CLEAR OPENING OR FLANGE COLLARS BY 3".

CONCRETE QUANTITY REDUCTION (CY/WINDOW)	.62
STEEL WEIGHT INCREASE (LB/WINDOW)	237

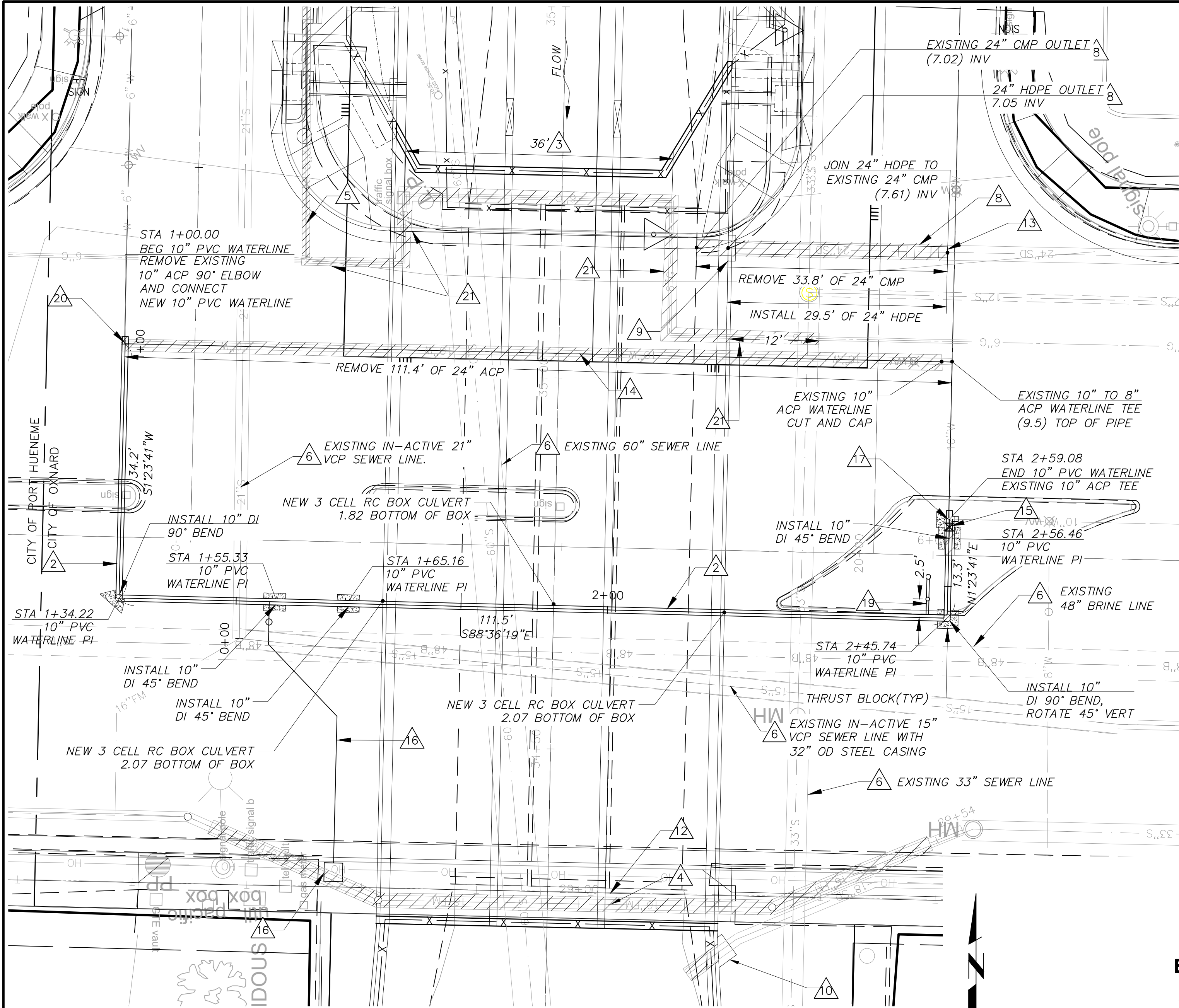


ROOT DATE: 8/28/20

SAVE DATE: 8/26/20 DOKTOROV, NATALIYA K:\PROJECTS\ZONE2\TSUMAS\CHUMASH\CREEK\B2323_TSUMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\STRUCTURAL DETAILS.DWG
SAVE DATE: 7/28/20 CSTELEA H:\PDATA\169808\CADD\STRUCT\DLV\169808-RCB-WINDOW DETAIL.DWG

D				RECOMMENDED: _____ DATE _____	A. LOZANO DESIGNED	8/26/2020 DATE	SPEC. NO. WP21-01	TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS HUENEME ROAD TO UPSTREAM OF JANE DRIVE RCB CULVERT WINDOW DETAILS	SHEET 5 OF 27
C					A. LOZANO DRAWN	WATERSHED DEPUTY DIRECTOR	PROJ. NO. 82323		DRAWING NO. WPD-2-386
B				APPROVED: _____ DATE _____	C. STELEA CHECKED	WATERSHED DIRECTOR			
A				PORT OF HUENEME, OXNARD HARBOR DISTRICT					
Δ	REVISION	DESCRIPTION	APP.	DATE					

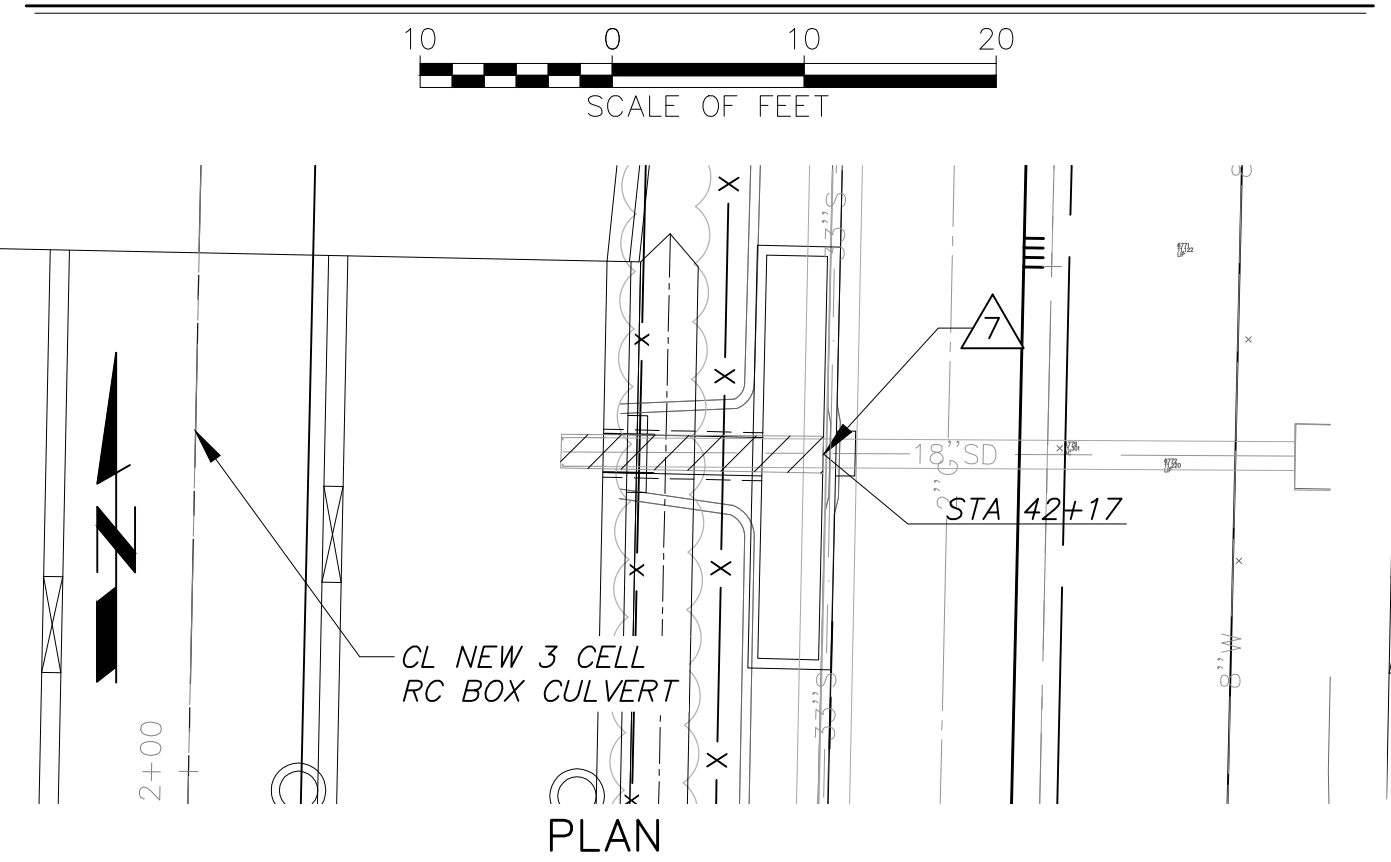




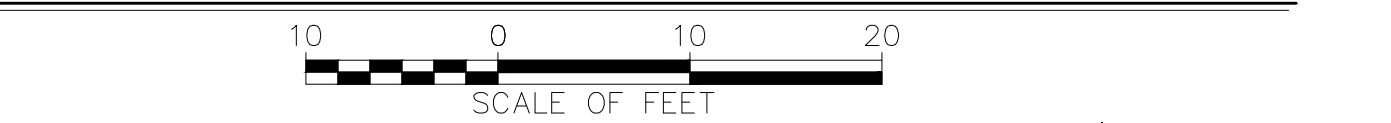
NOTES:

- ALL UNDERGROUND UTILITY LOCATIONS TO BE VERIFIED BY POTHOLING. MATCH JOIN LOCATIONS TO EXISTING ELEVATIONS.
- INSTALL NEW 10" PVC DR 14 PRESSURE CLASS 200 WATER LINE UNDER NEW CONCRETE BOX CULVERT AND 33" VCP SS AS SHOWN PER CITY OF OXNARD STANDARD PLAN(COSP) PLATE 313, THRUST BLOCKING PER COSP PLATE 320. WORK TO BE DONE IN STAGE 2. TRENCH PER DETAIL.
- REMOVE APPROXIMATELY 36' OF EXISTING/ABANDONED 6" GAS LINE.
- REMOVE EXISTING 16" DIP SS FORCE MAIN PER PLAN. ABANDON REMAINDER IN PLACE. WORK TO BE DONE IN STAGE 1.
- REMOVE INTERFERING PORTIONS OF EXISTING ABANDONED 2" GAS LINE.
- PROTECT IN PLACE PER PLAN.
- REMOVE INTERFERING PORTION OF 18" CSP. SEE SHEET 10 FOR CONNECTION DETAILS.
- REMOVE 24" CMP AND REPLACE WITH 24" HDPE TO LIMITS SHOWN ON PLANS AND PER DETAIL. WORK TO BE DONE IN STAGE 3.
- CONSTRUCT 24" PIPE TO RCB JUNCTION STRUCTURE PER COSP PLATE 525, A = 90°; CASE 1, S PER DETAIL.
- REMOVE INTERFERING PORTION OF 18" RCP. CONSTRUCT 18" PIPE TO RCB JUNCTION STRUCTURE PER COSP PLATE 525, A = 57°; CASE 2, S PER PLAN.
- REMOVE INTERFERING 15" CSP. SEE SHEET 10 FOR CONNECTION TO NEW CATCH BASIN DETAILS.
- EXISTING CABLE/TELEPHONE TO BE RELOCATED BY OTHERS.
- INSTALL 24" RC COLLAR PER COSP PLATE 512. WORK TO BE DONE IN STAGE 3.
- REMOVE EXISTING 10" ACP WATERLINE. WORK TO BE DONE IN STAGE 3.
- INSTALL 10" R.S. GATE VALVE AND NECESSARY FITTINGS PER COSP PLATES 302 AND 303. WORK TO BE DONE IN STAGE 2.
- INSTALL COMBINATION AIR-VACUUM VALVE PER PLAN AND PER COSP PLATE 308. WORK TO BE DONE IN STAGE 1 AND 2.
- REPLACE EXISTING 10" ACP TEE WITH 10" DUCTILE IRON(DI) TEE. REMOVE INTERFERING 10" ACP WATERLINE AND PLUG.
- INSTALL STEEL CASING AND EXTENDED CRADLE PER DETAIL.
- INSTALL 4" BLOW-OFF VALVE PER COSP PLATE 307.
- REMOVE EXISTING 10" ACP ELBOW. CONNECT NEW 10" PVC WATERLINE TO EXISTING 10" ACP WATERLINE.
- EXISTING 6" GAS LINE REMOVED BY OTHERS.

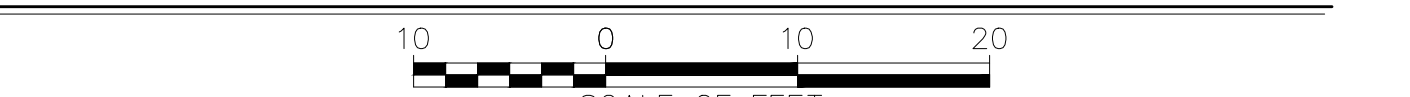
EXISTING 18" CMP REMOVAL AT NEW 3 CELL RC BOX CULVERT STATION 39+77, S/B J STREET



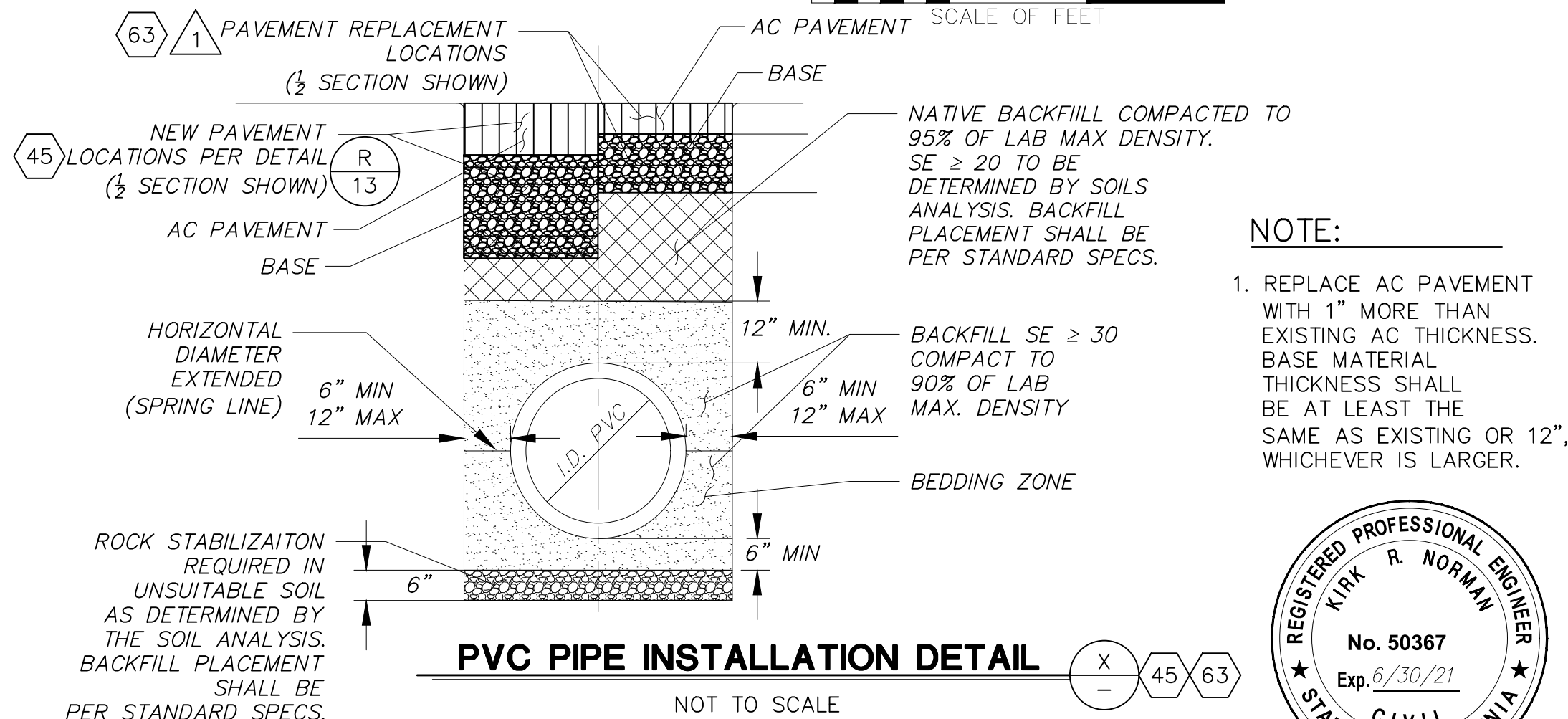
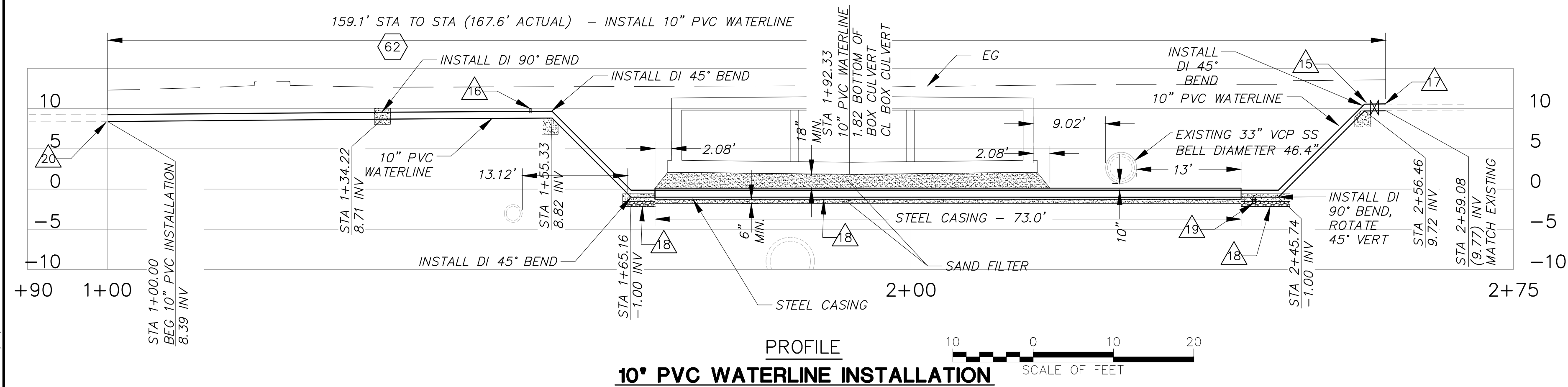
EXISTING 18" CMP REMOVAL AT NEW 3 CELL RC BOX CULVERT STATION 42+17, N/B J STREET



EXISTING 18" CMP REMOVAL AT NEW 3 CELL RC BOX CULVERT STATION 36+37, N/B J STREET



HUENEME RD AND NORTH AND SOUTH BOUND J STREET INTERSECTION - UNDERGROUND UTILITIES

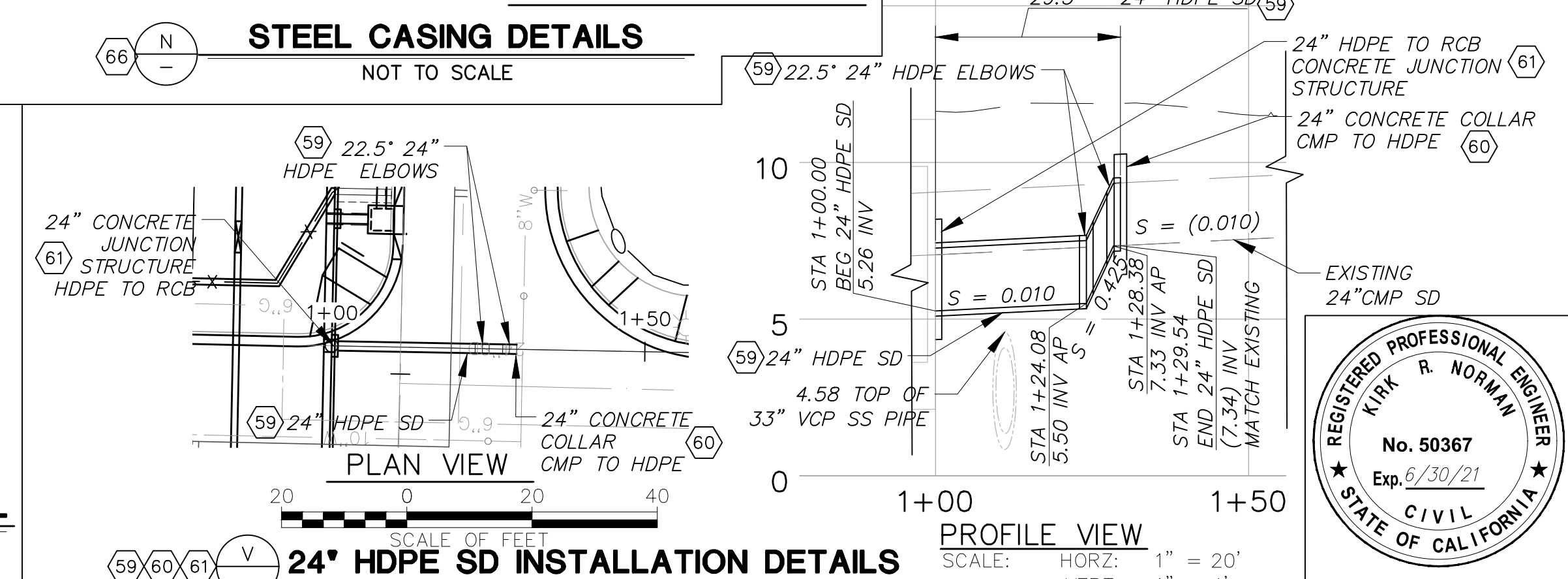
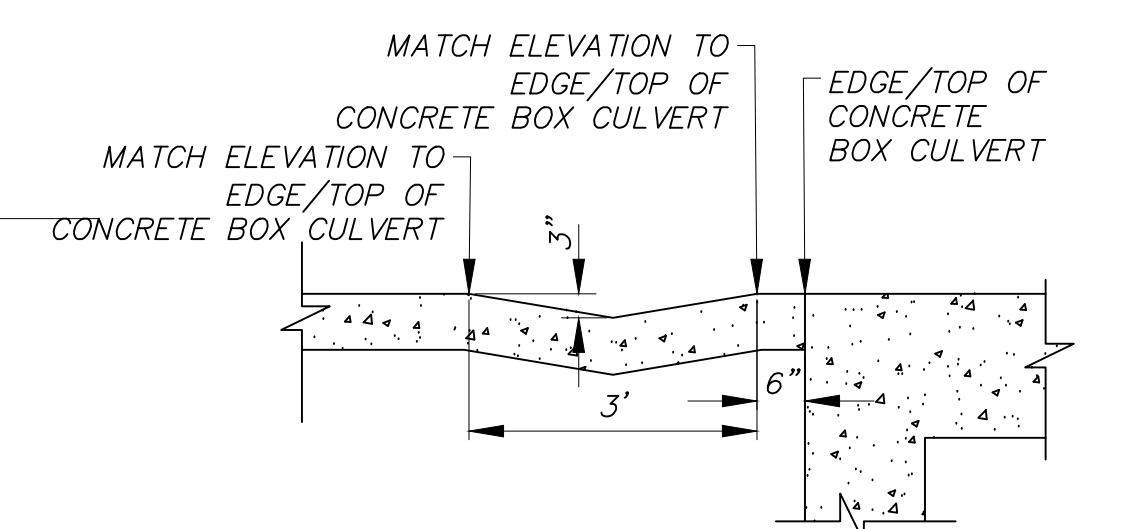
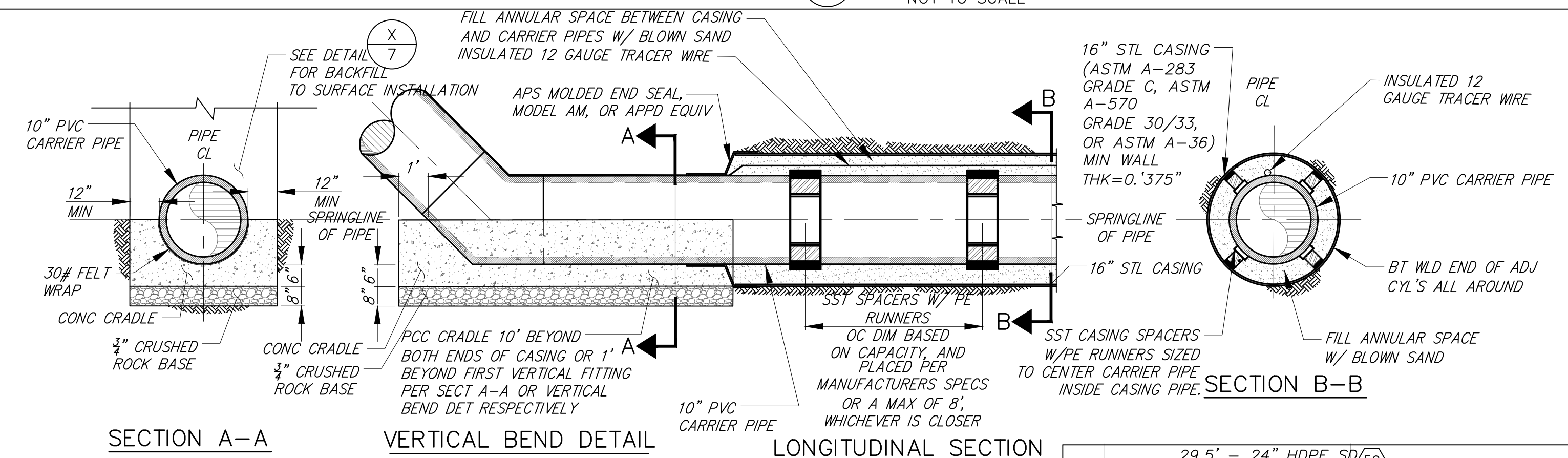
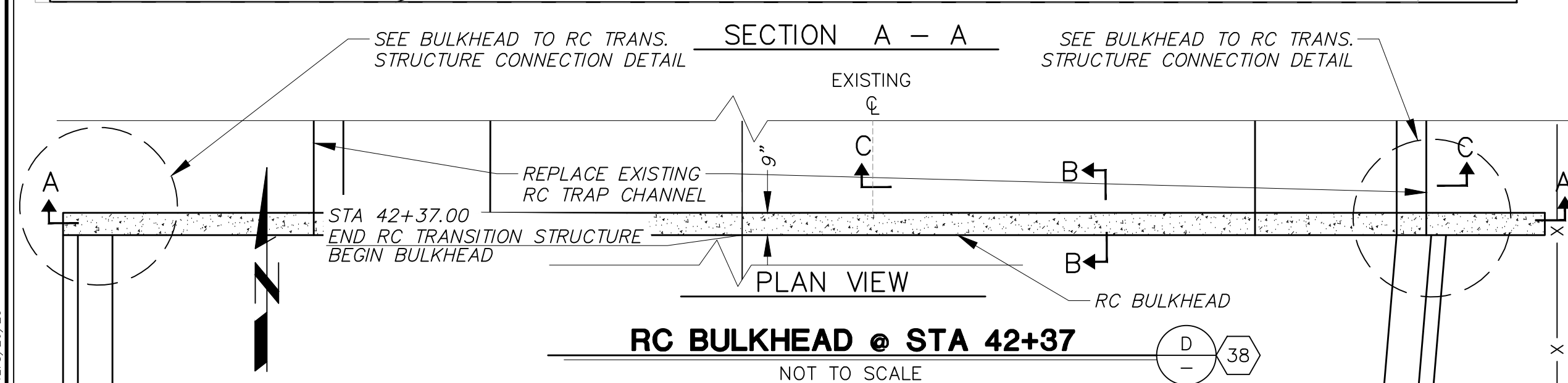
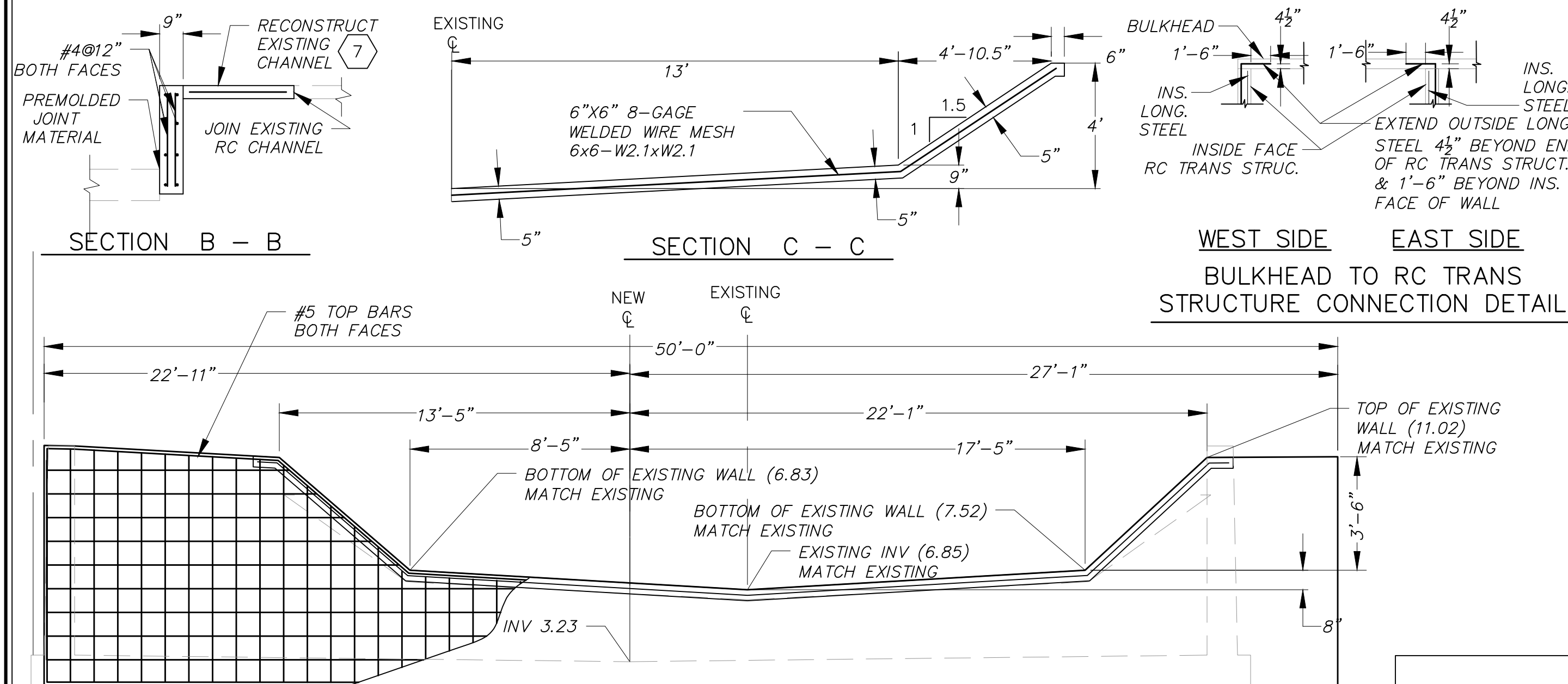
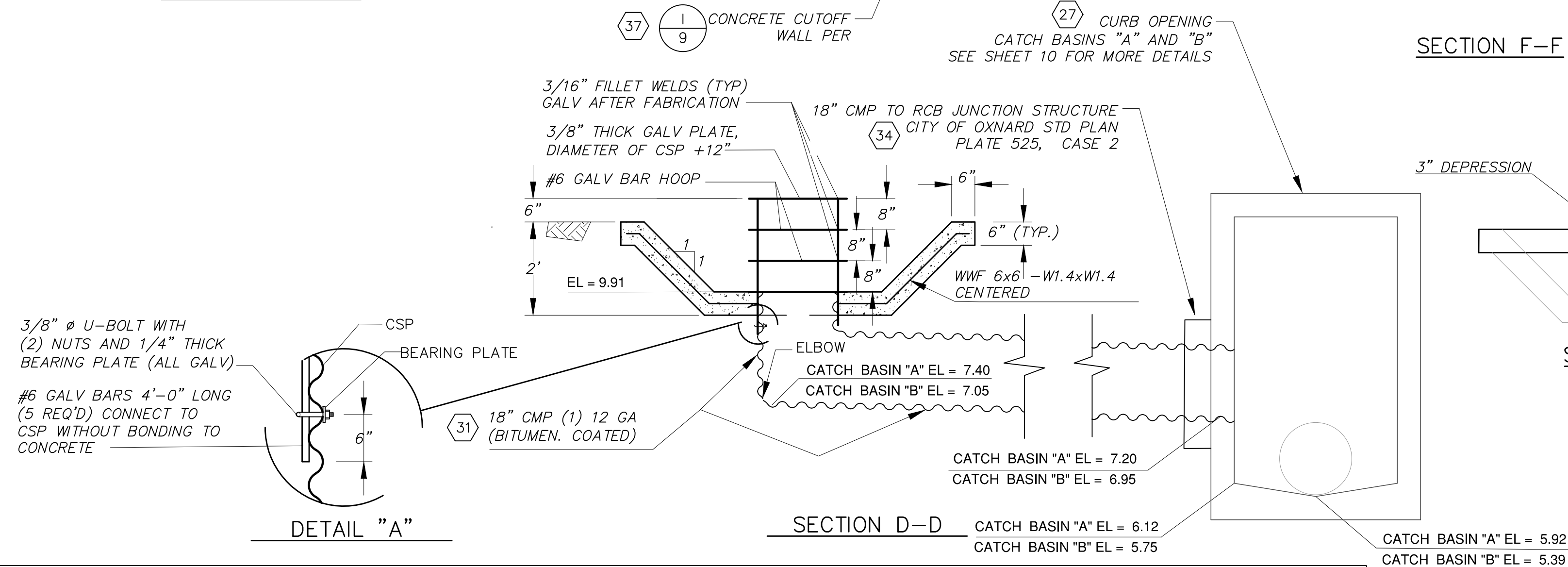
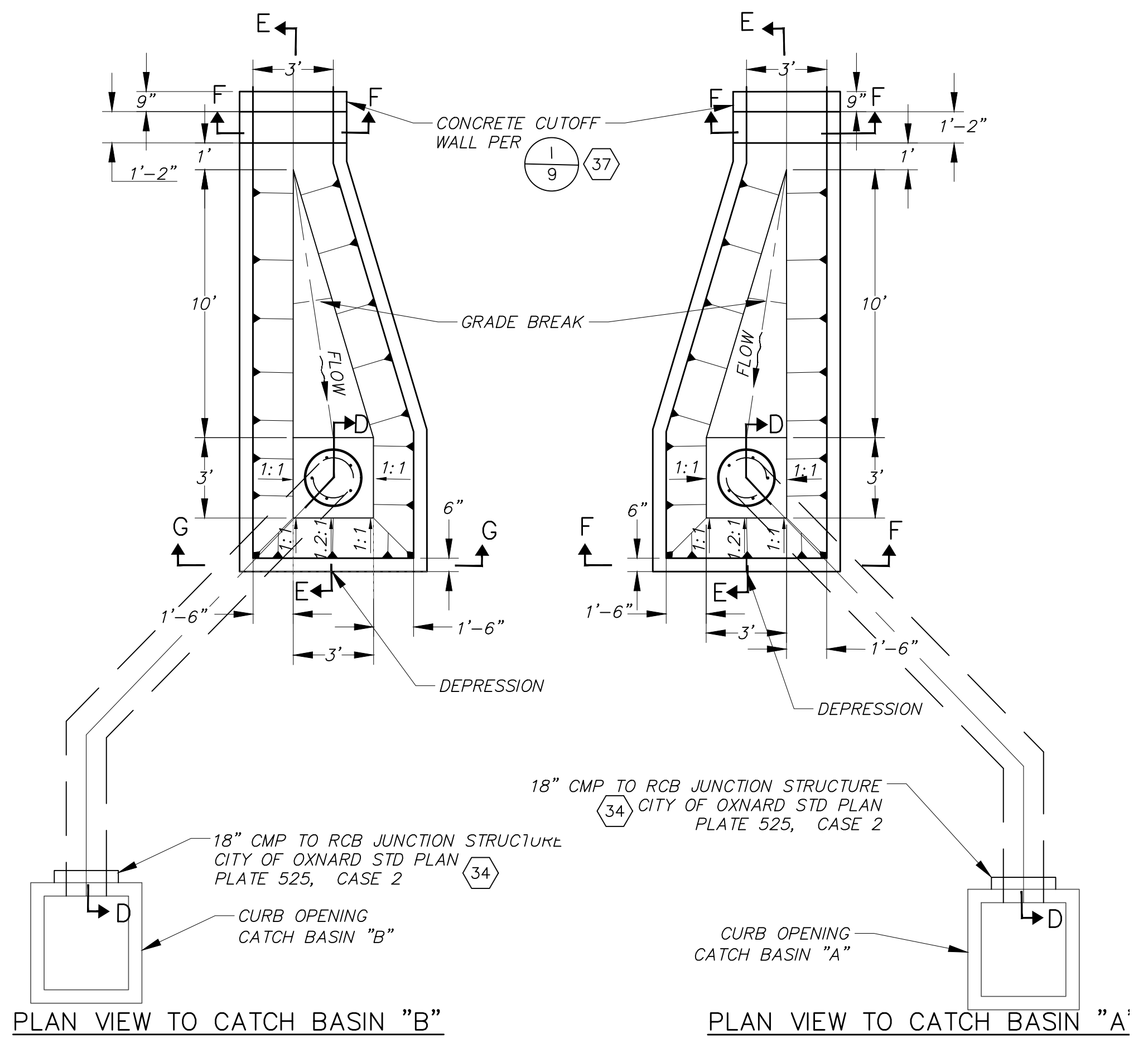
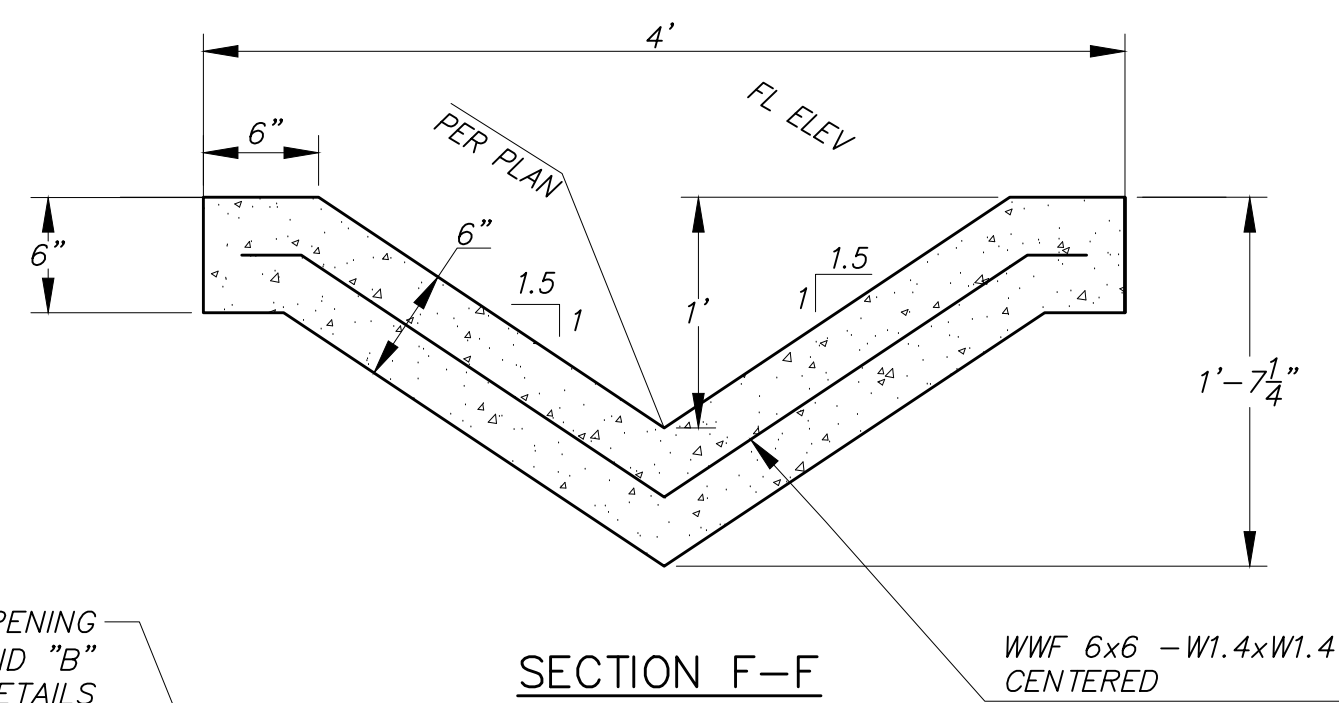


NOTE:

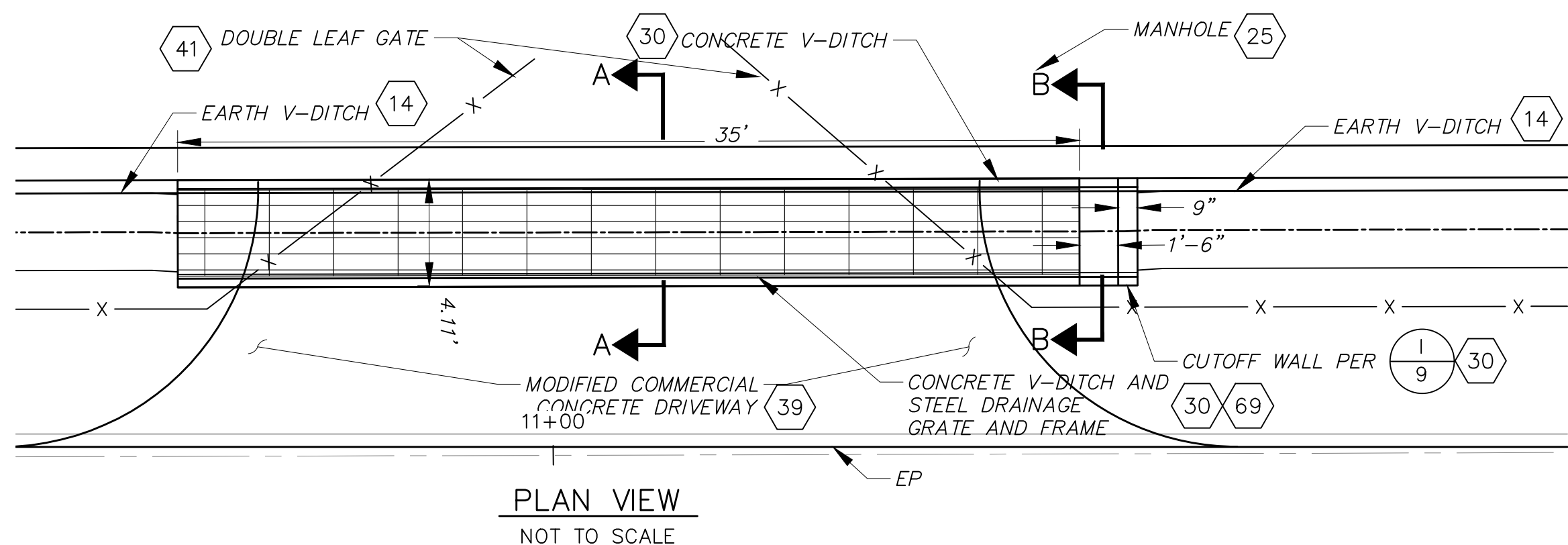
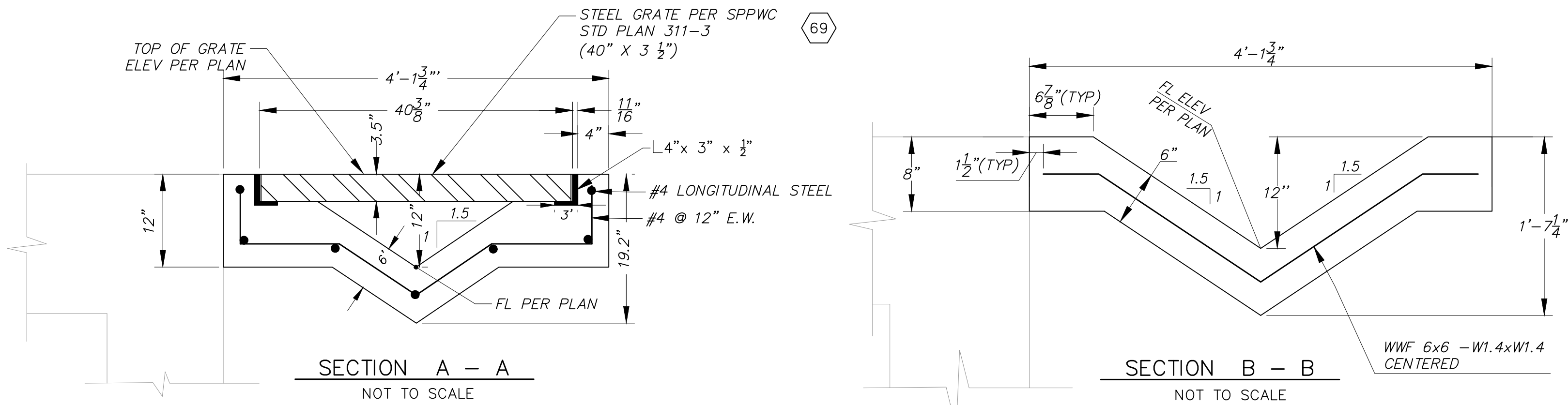
- REPLACE AC PAVEMENT WITH 1" MORE THAN EXISTING AC THICKNESS. BASE MATERIAL THICKNESS SHALL BE AT LEAST THE SAME AS EXISTING OR 12", WHICHEVER IS LARGER.



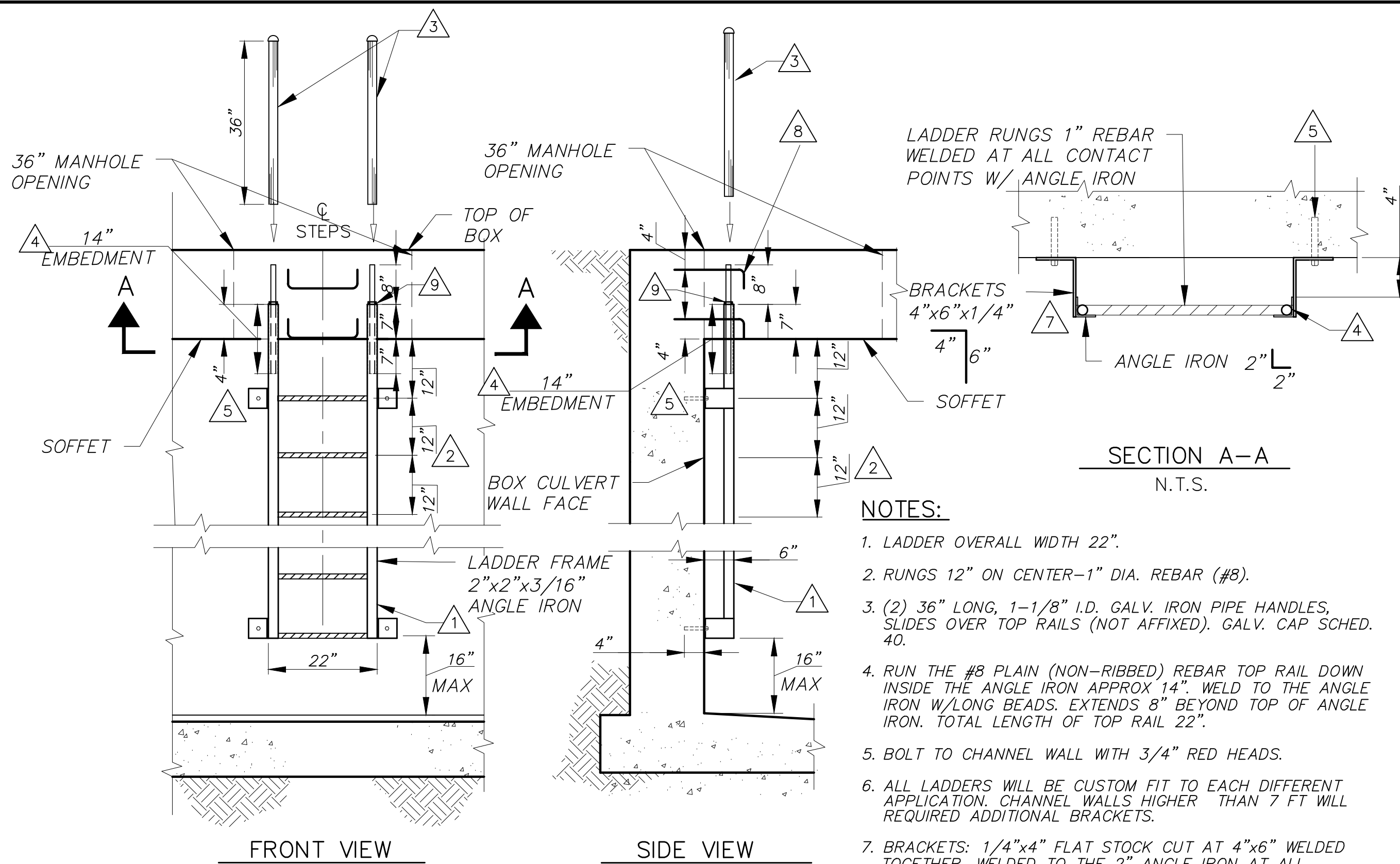
D				JM	8/26/2020	VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION	SPEC. NO. WP21-01 PROJ. NO. 82323	TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS HUENEME ROAD TO UPSTREAM OF JANE DRIVE UNDERGROUND UTILITY DETAILS	SHEET 7 OF 30 DRAWING SET NO. WP-2-386
C				DESIGNED	DATE				
B				JM/ND					
A				DRAWN	DATE				
REVISION	DESCRIPTION	APP.	DATE	CHECKED	DATE				



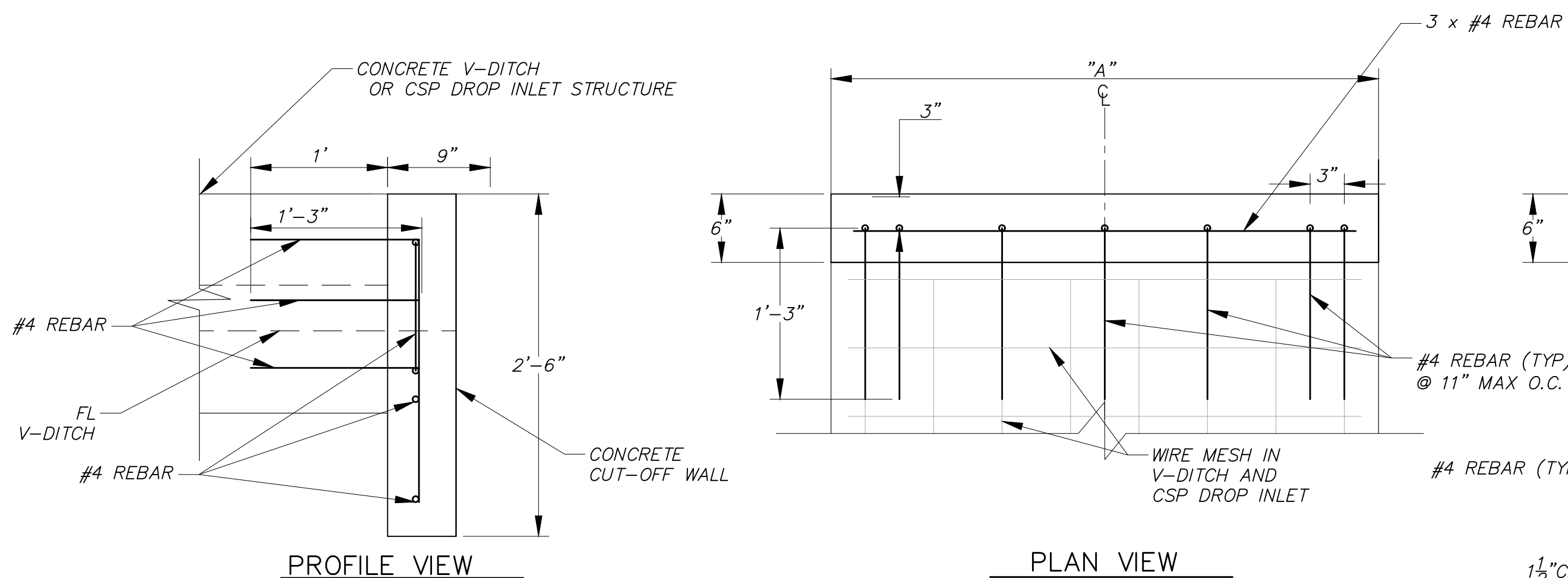
SAVE DATE: 8/20/20 DOKTOROV, NATALIYA R:\PROJECTS\ZONE2\TŠUMAŠ\CHUMASH\CRKFK\82323 TŠUMAŠ CRKFK HUENEME RD JANE DRIVE\DESIGN\DESIGN\DRAWINGS\FINAL PLANS\MISCELLANEOUS DETAILS.DWG				VERT: 1" = 4'	
D				J M	8/26/2020
C				DESIGNED	DATE
B				J M	
A				DRAWN	DATE
△	REVISION	DESCRIPTION	APP.	K NORMAN	DATE
				CHECKED	DATE
				 WATERSHED PROJECT MANAGER WATERSHED DEPUTY DIRECTOR WATERSHED DIRECTOR	
				VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION	
				SPEC. NO. WP21-01 PROJ. NO. 82323	
				TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS HUENEME ROAD TO UPSTREAM OF JANE DRIVE MISCELLANEOUS DETAILS -1	
				SHEET 8 OF 30 DRAWING SET NO. WP-2-386	



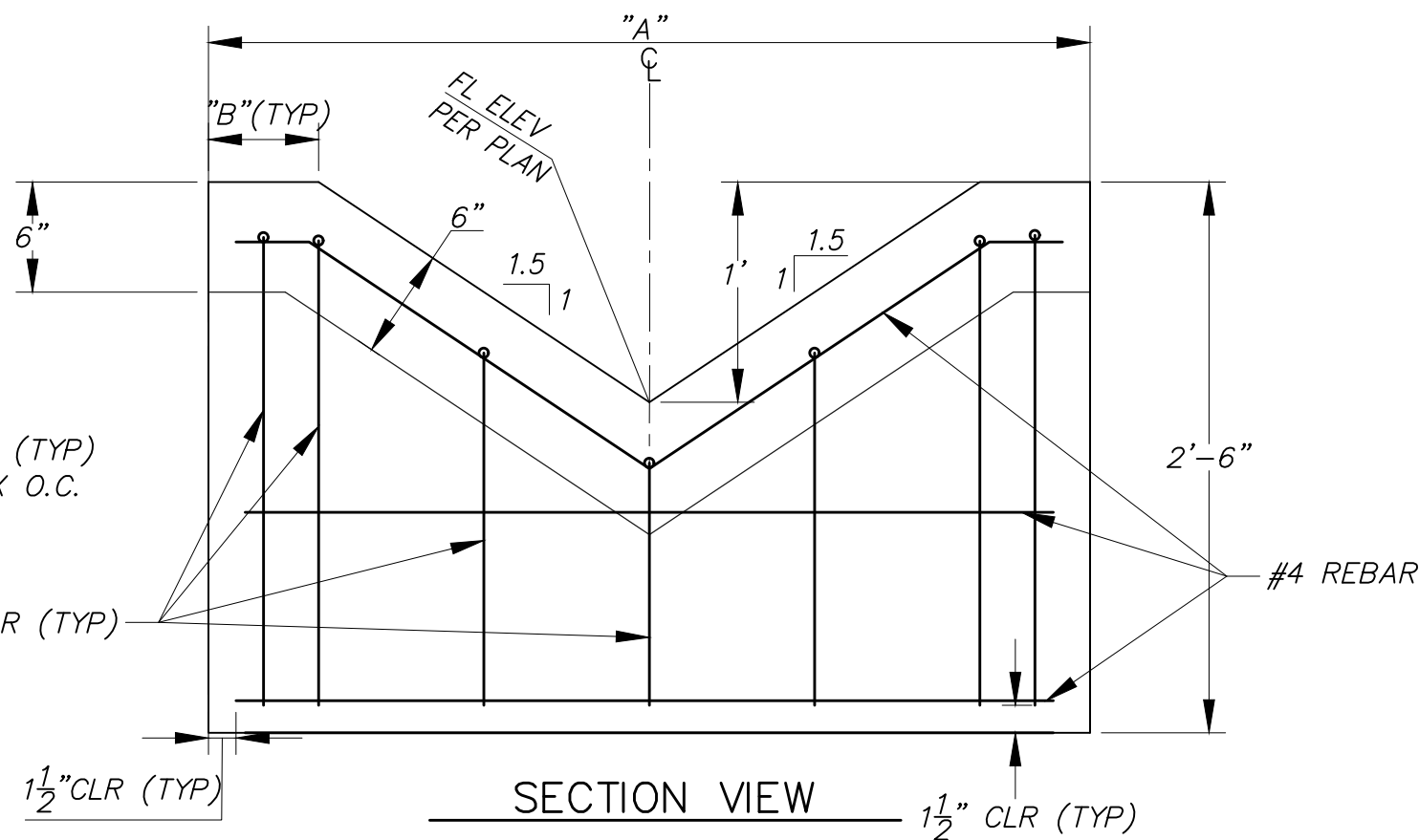
CONCRETE V-DITCH WITH GRATE (H, 30, 69)



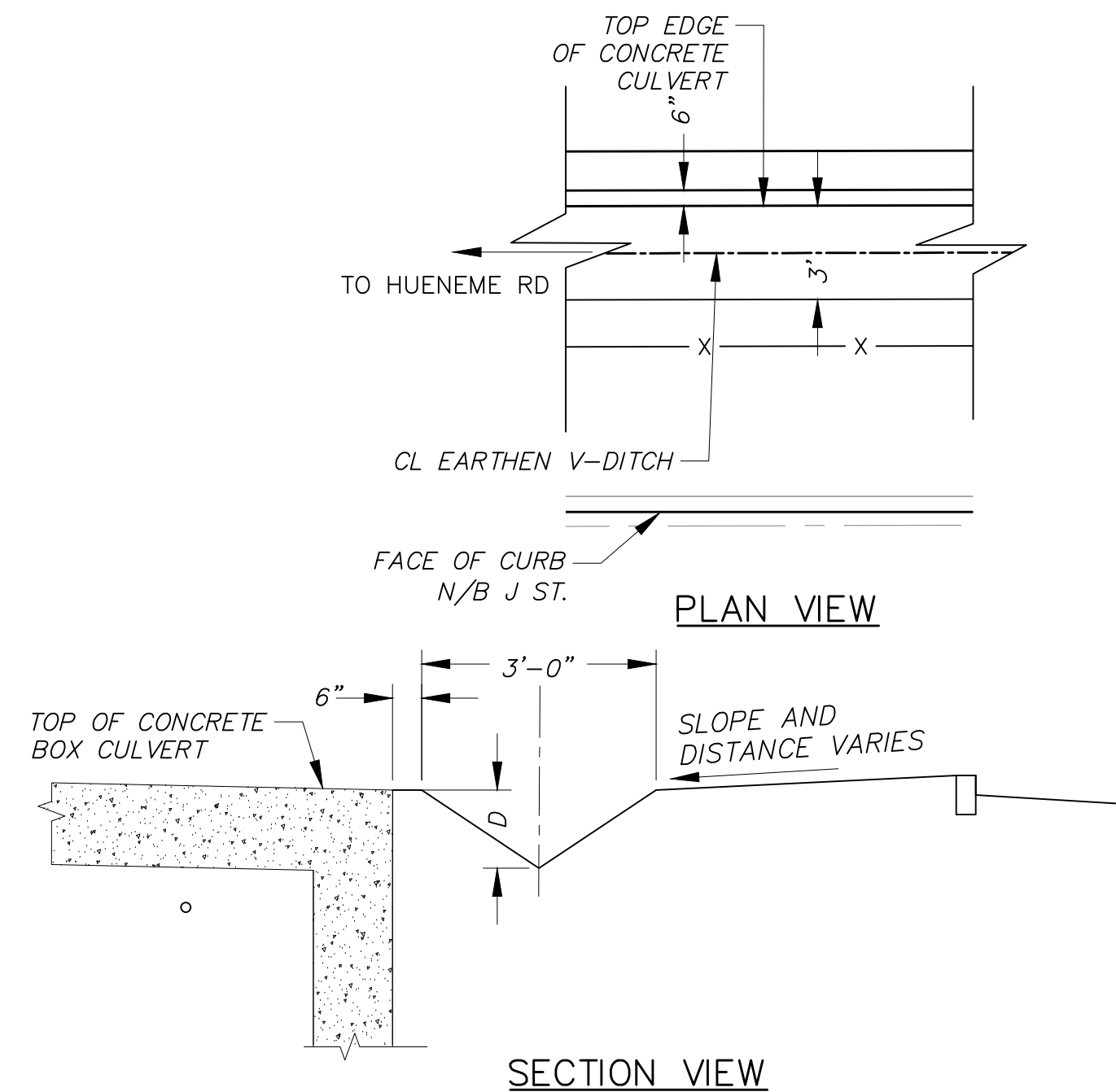
LADDER DETAILS (C, 26)
NOT TO SCALE



CUT-OFF WALL CONCRETE V-DITCH AND CMP DROP INLET STRUCTURE (1, 30, 37)
NOT TO SCALE



- NOTES:**
1. A = 4.11' FOR V-DITCH WITH GRATE
= 4' FOR CSP DROP INLET.
 2. B = 6'-7/8" FOR V-DITCH WITH GRATE
= 6" FOR THE CSP DROP INLET.



EARTHEN V-DITCH DETAIL (F, 14)
NOT TO SCALE

- NOTES:**
1. THIS IS LOOKING UPSTREAM ON THE EAST SIDE.
 2. "D" CALLED OUT IN PLAN VIEW ON SHEET 3.
 3. MIRROR DIMENSIONS FOR THE V-DITCH ON THE WEST SIDE.

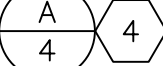
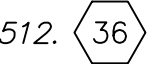
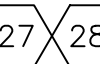
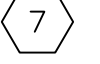
PLT DATE: 8/26/20

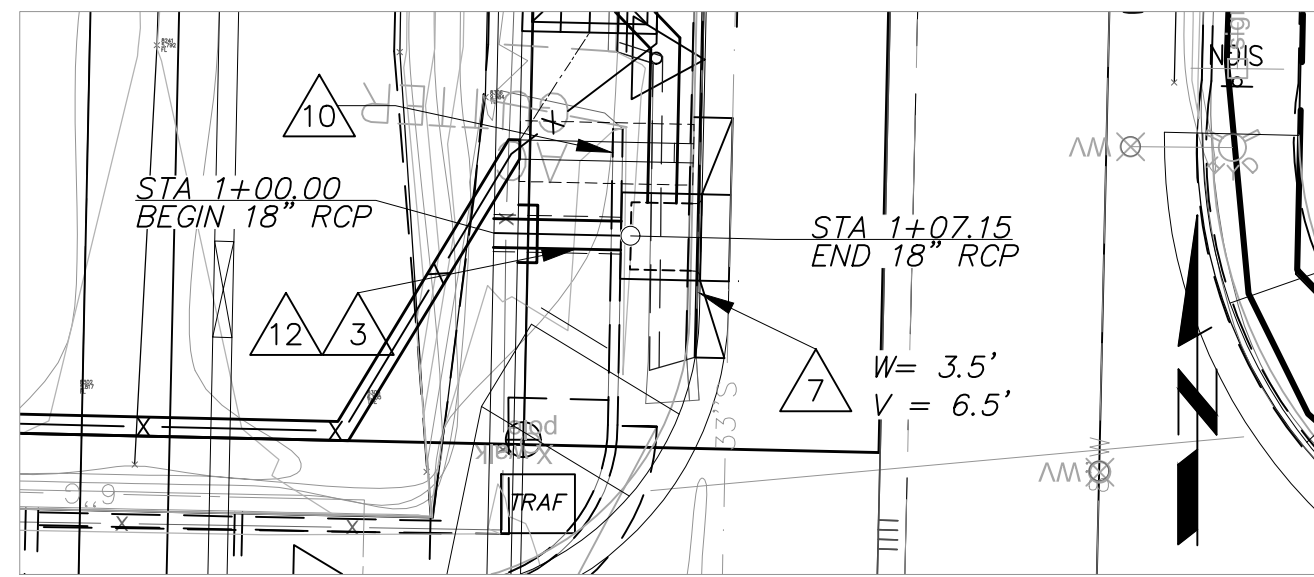
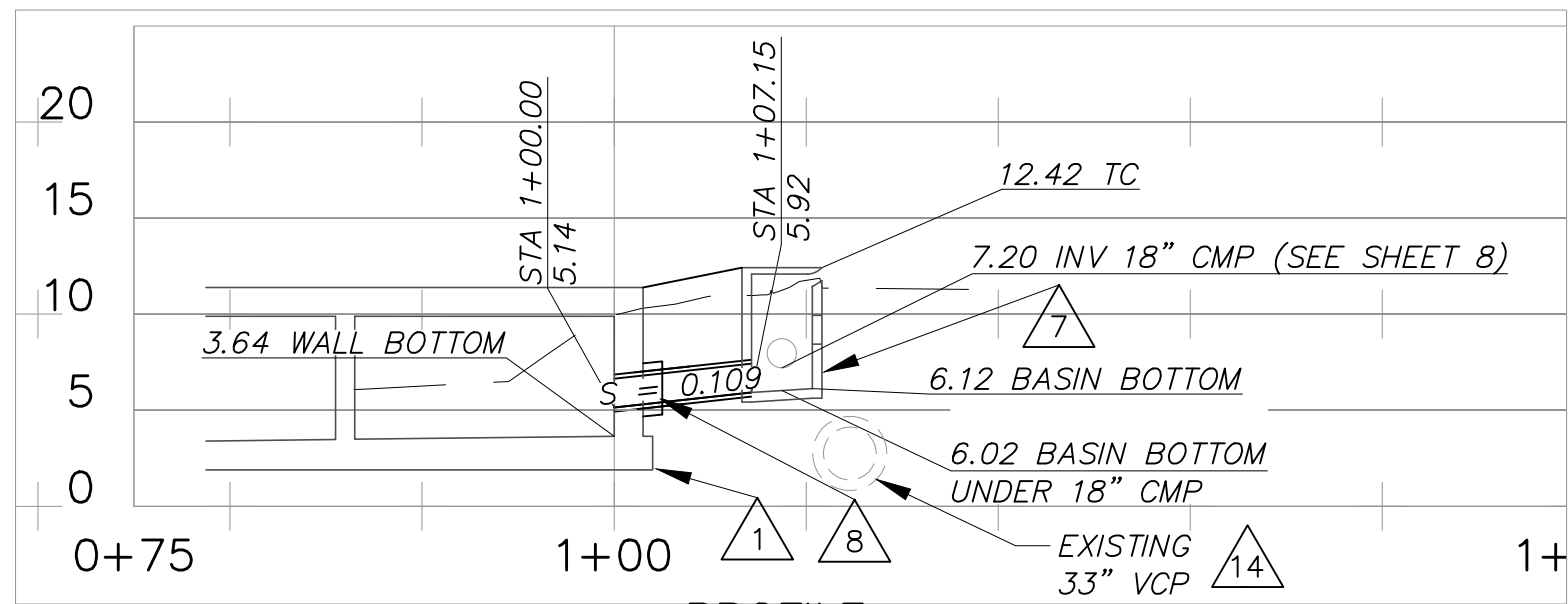
SAVE DATE: 8/20/20 DOKTOROV, NATALIYA K:\PROJECTS\ZONE2\TSUMAS\CHUMASH\CREEK\82323-TSUMAS_CREEK-HUENEME_RD-JANE_DR\DESIGN\DRAWINGS\FINAL_PLANS\MISCELLANEOUS_DETAILS.DWG

D				JM	8/26/2020	VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION	SPEC. NO.	TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS HUENEME ROAD TO UPSTREAM OF JANE DRIVE MISCELLANEOUS DETAILS- 2	SHEET 9 OF 30 DRAWING SET NO. WP-2-386
C				DESIGNED	DATE		WP21-01		
B				JM / ND			PROJ. NO.		
A				DRAWN			82323		
Δ	REVISION	DESCRIPTION	APP.	DATE	CHECKED	DATE			

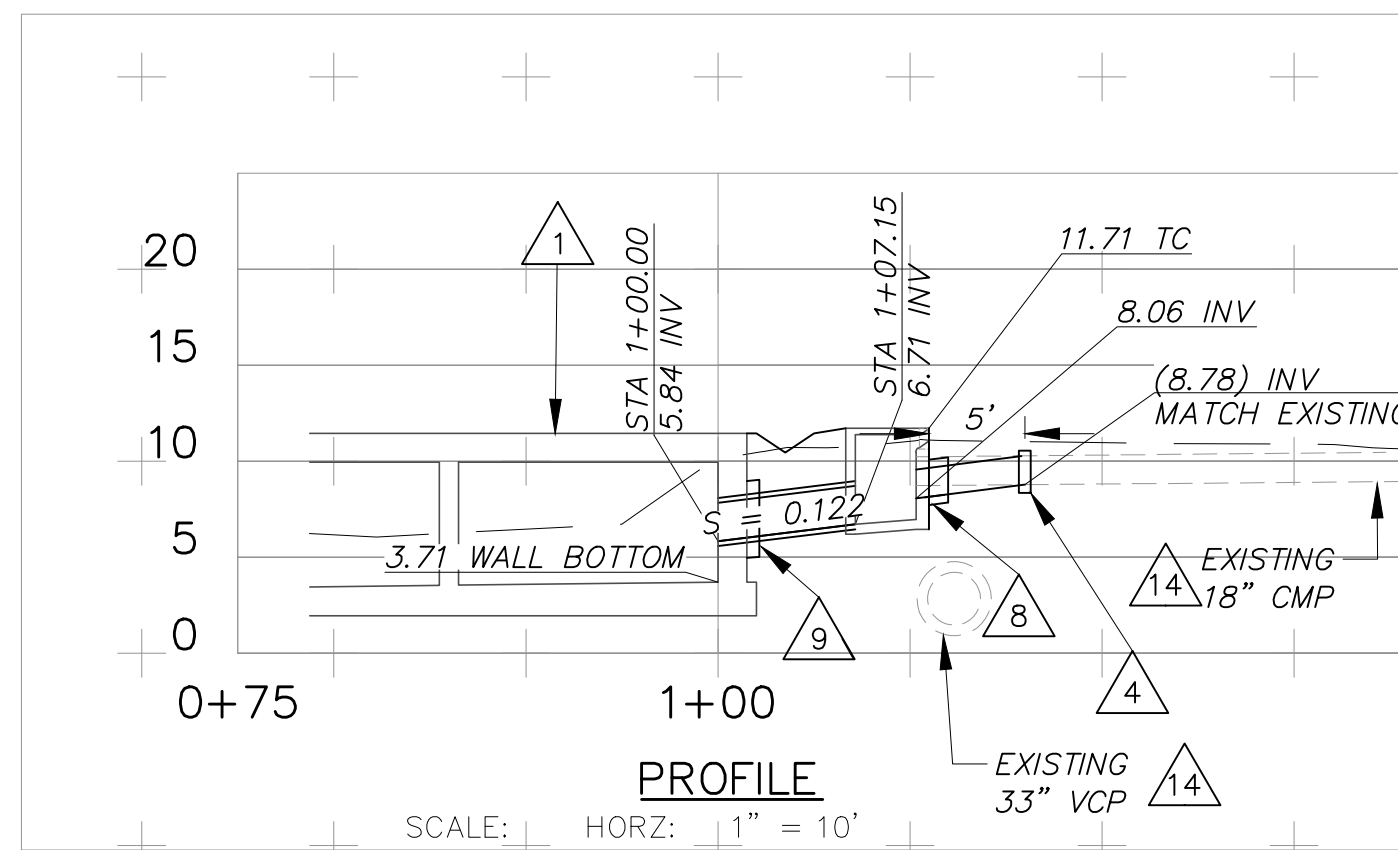


NOTES:

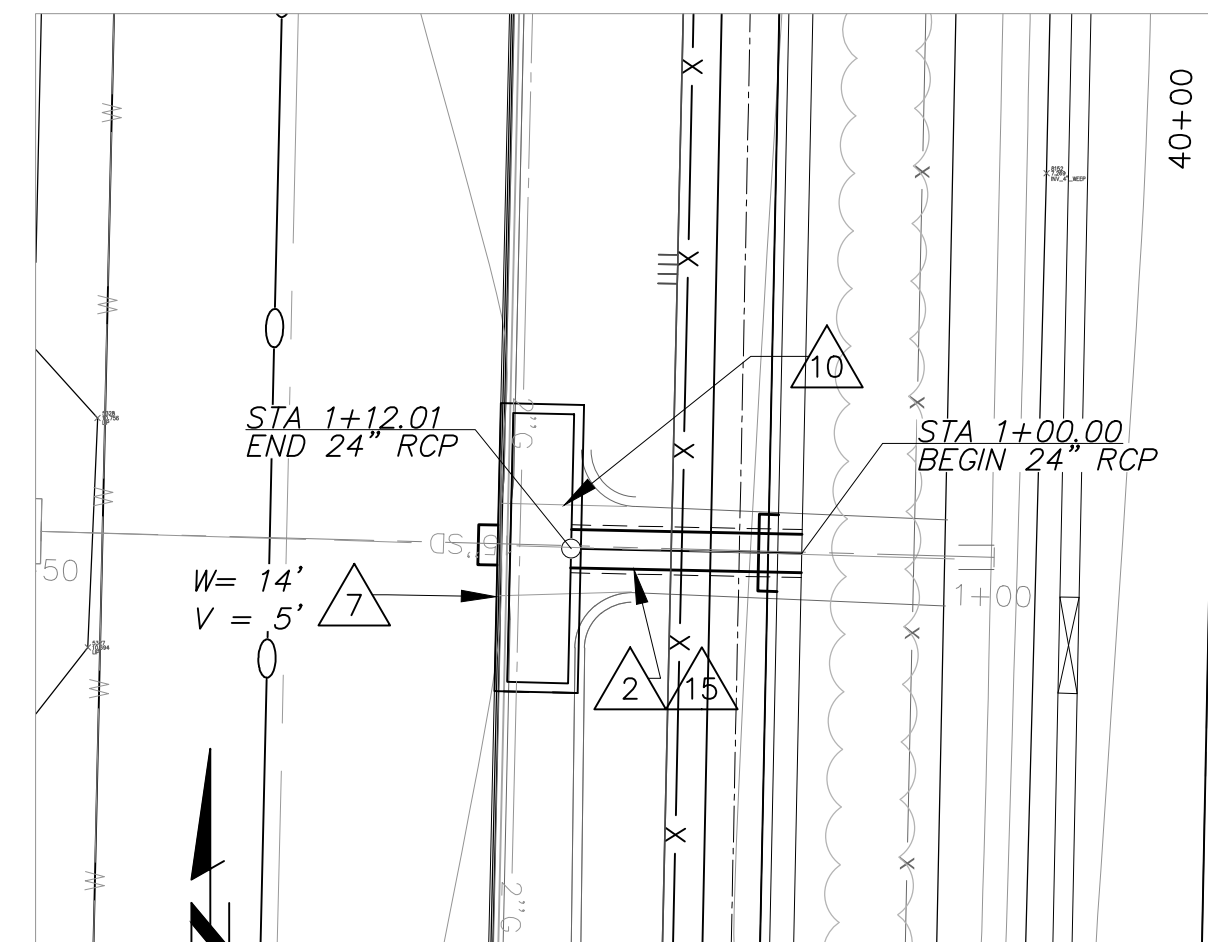
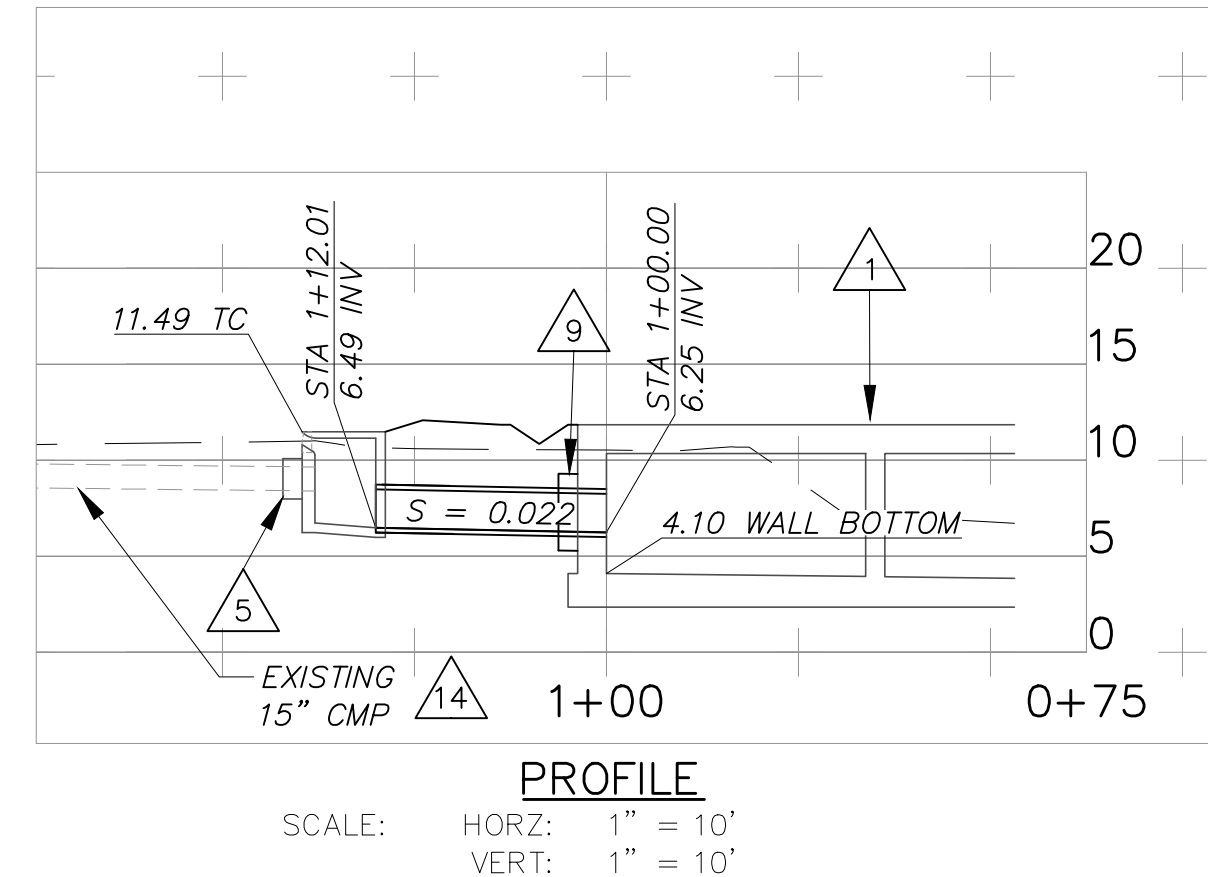
1. CONSTRUCT RC TRIPLE BOX PER DETAIL  
2. INSTALL 24" RCP (D-1000) PER PLAN AND PROFILE. 
3. INSTALL 18" RCP (D-1000) PER PLAN AND PROFILE. 
4. CONSTRUCT CMP TO CMP COLLAR PER CITY OF STANDRAD PLATE 512. 
5. CONSTRUCT 15" PIPE TO RCB JUNCTION STRUCTURE PER CITY OF OXNARD STANDARD PLATE 524, A = 90°; C = 18". 
6. INSTALL 5' WIDE CULVERT WINDOW PER DETAIL  
7. INSTALL CURB OPENING CATCH BASIN PER CITY OF OXNARD STANDARD PLAN PLATE #501, W = PER PLAN, V PER PLAN. FLOOR OF BASIN SHALL BE SLOPED 12:1 MIN. IN ALL DIRECTIONS TO THE OUTLET PIPE UNLESS OTHERWISE NOTED.   
8. CONSTRUCT 18" PIPE TO RCB JUNCTION STRUCTURE PER CITY OF OXNARD STANDARD PLATE 524, A = 90°; C = 2'-3". 
9. CONSTRUCT 24" PIPE TO RCB JUNCTION STRUCTURE PER CITY OF OXNARD STANDARD PLATE 524, A = 90°; C = 2'-3". 
10. REMOVE EXISTING CONCRETE OVERSIDE DRAIN 
11. INSTALL 18" CMP PER PLAN AND PROFILE. 
12. TRENCH AND BACKFILL PER DETAIL  
13. TRENCH AND BACKFILL PER DETAIL  
14. PROTECT IN PLACE. 
15. TRENCH AND BACK FILL PER DETAIL.  



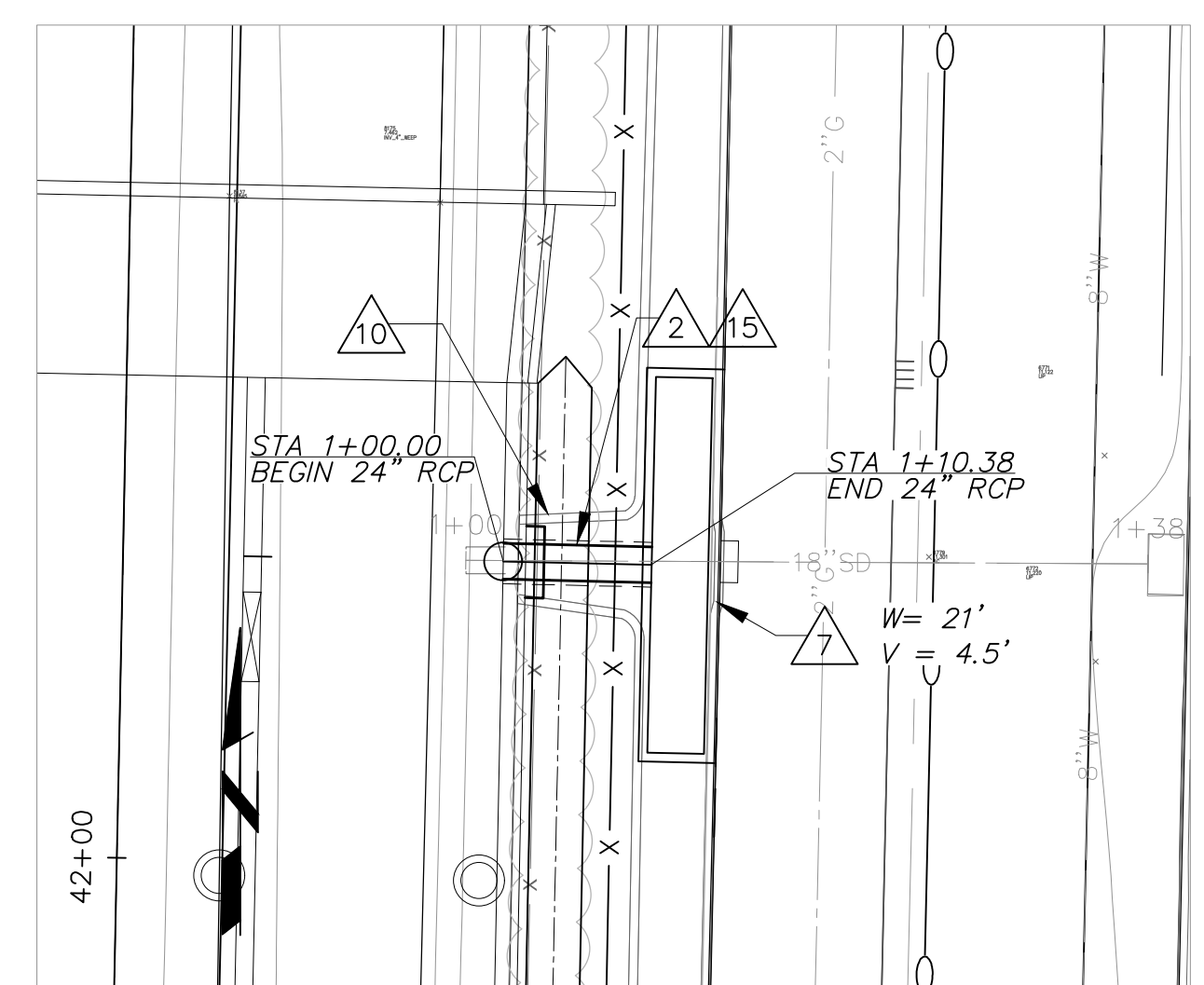
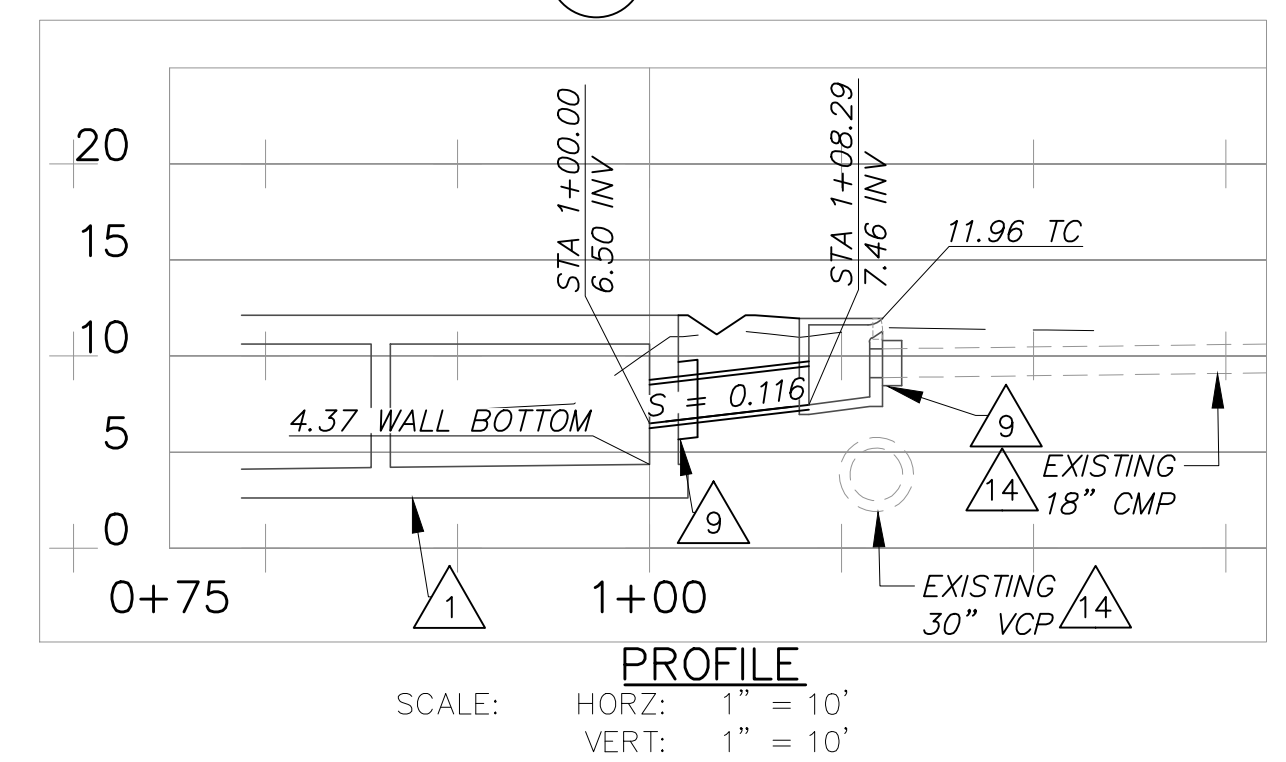
CURB OPENING CATCH BASIN A 



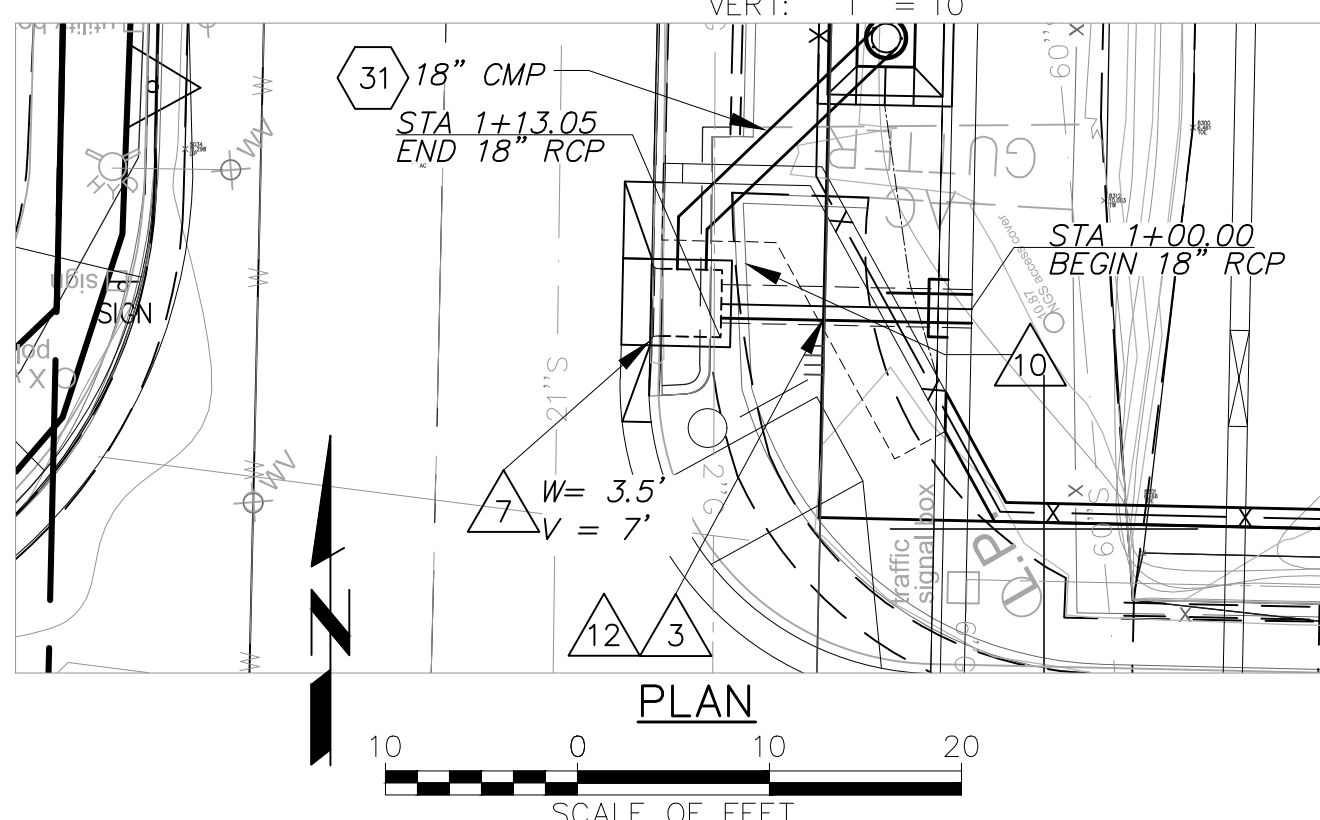
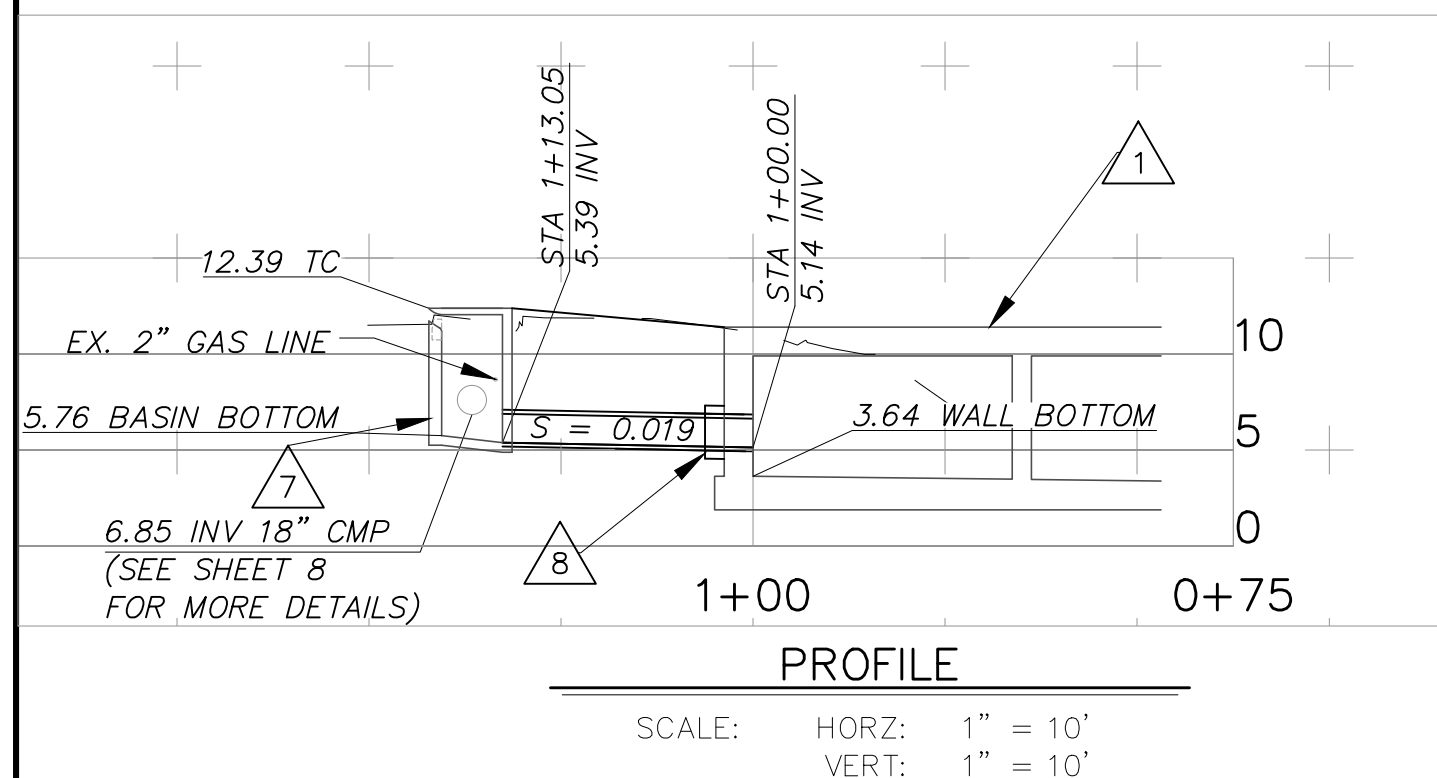
CURB OPENING CATCH BASIN #1 

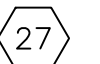


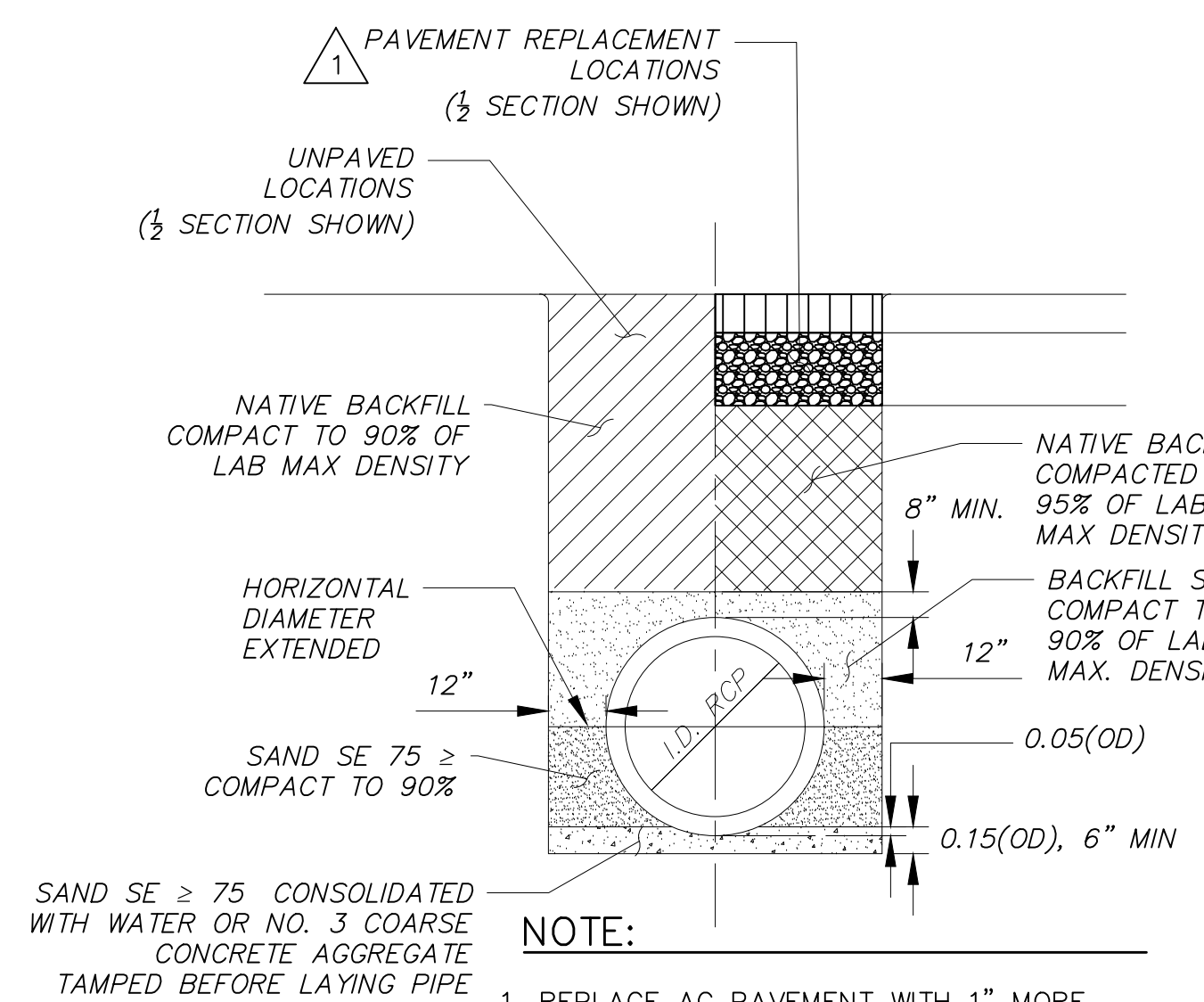
CURB OPENING CATCH BASIN #2

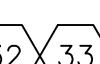


CURB OPENING CATCH BASIN #3

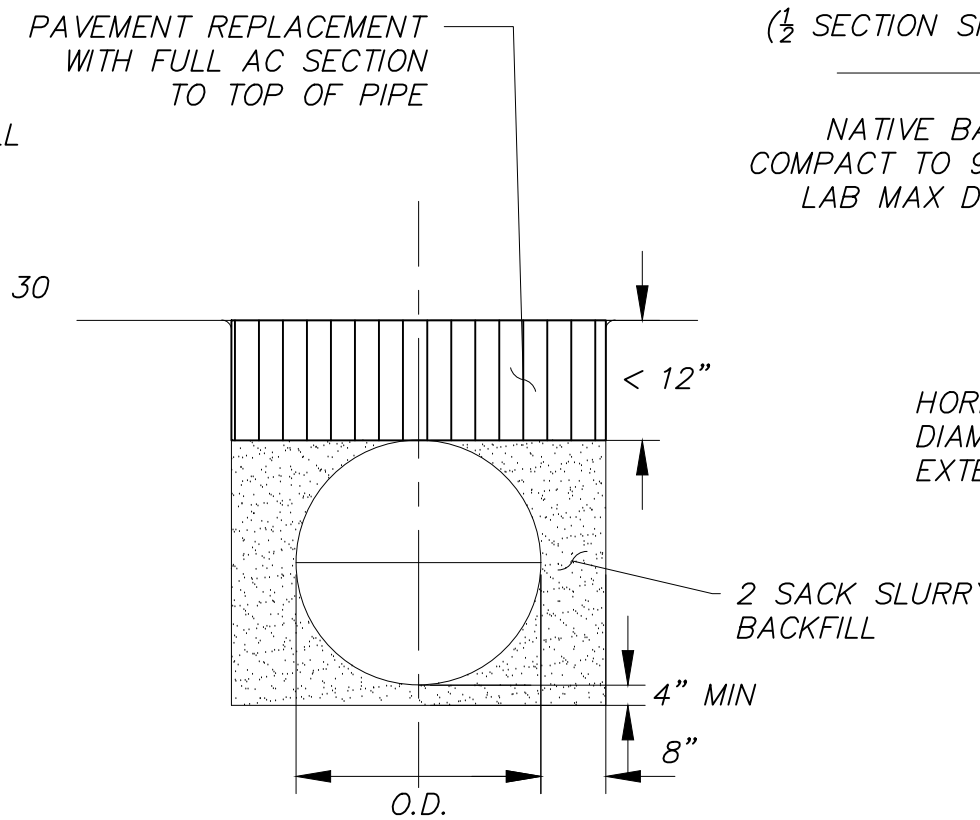


CURB OPENING CATCH BASIN B 



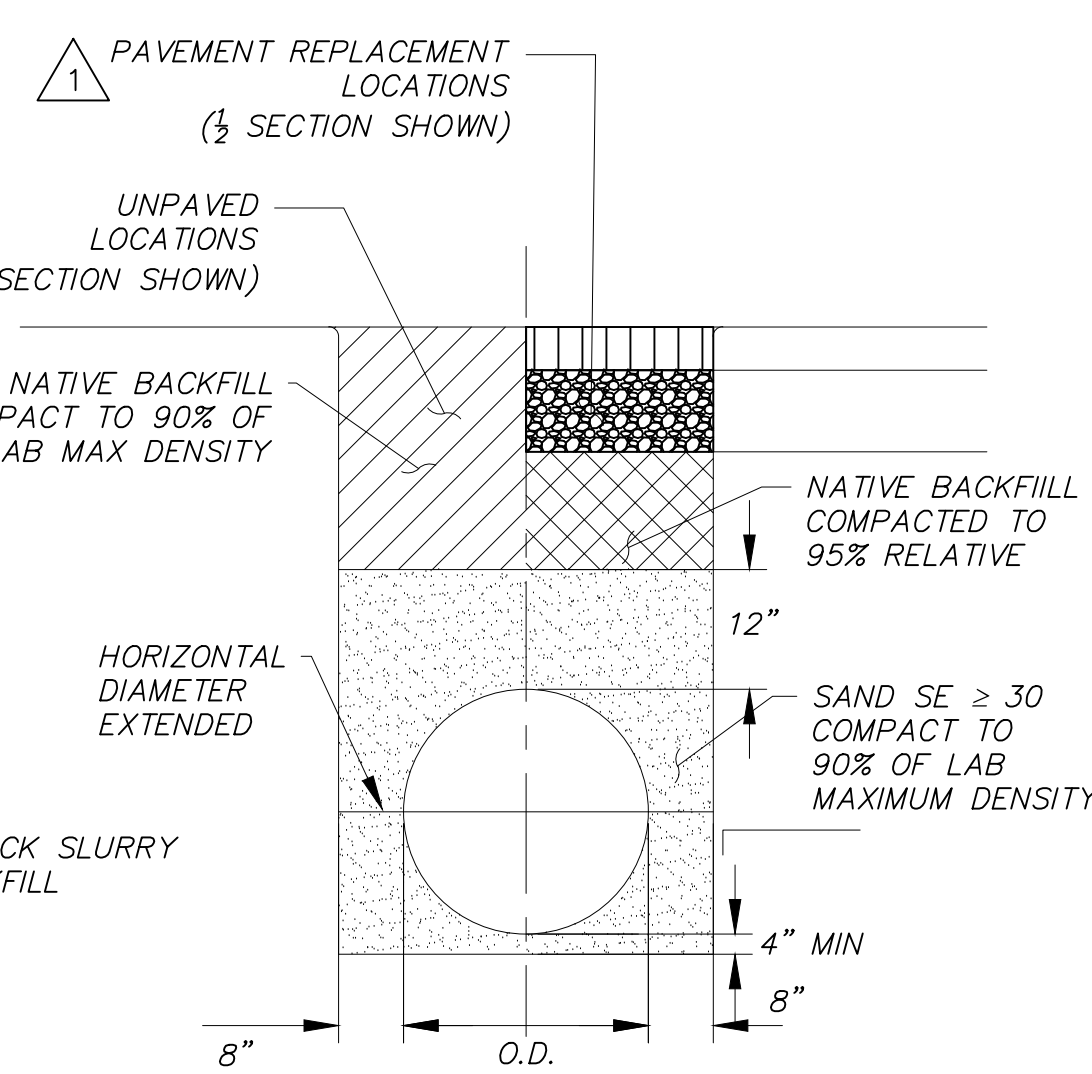
RC PIPE INSTALLATION DETAIL   

NOT TO SCALE



C.M. PIPE SPECIAL CONDITION INSTALLATION DETAIL  

NOT TO SCALE



C.M. PIPE INSTALLATION DETAIL  

NOT TO SCALE



REVISION	DESCRIPTION	APP.	DATE
D			
C			
B			
A			

JM	DESIGNED	8/26/2020
JM / ND	WATERSHED PROJECT MANAGER	DATE
K NORMAN	DRAWN	DATE
	CHECKED	DATE

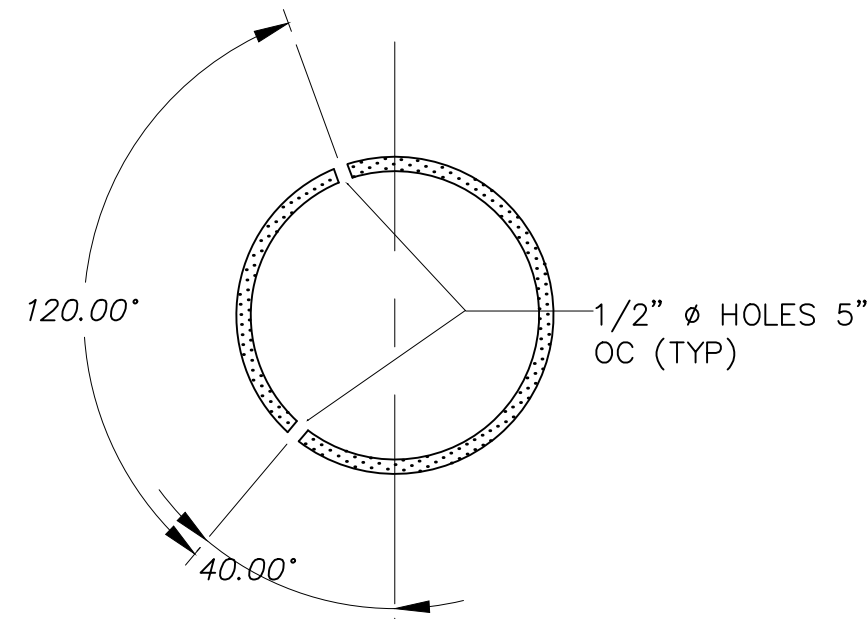
VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO.	WP21-01
PROJ. NO.	82323

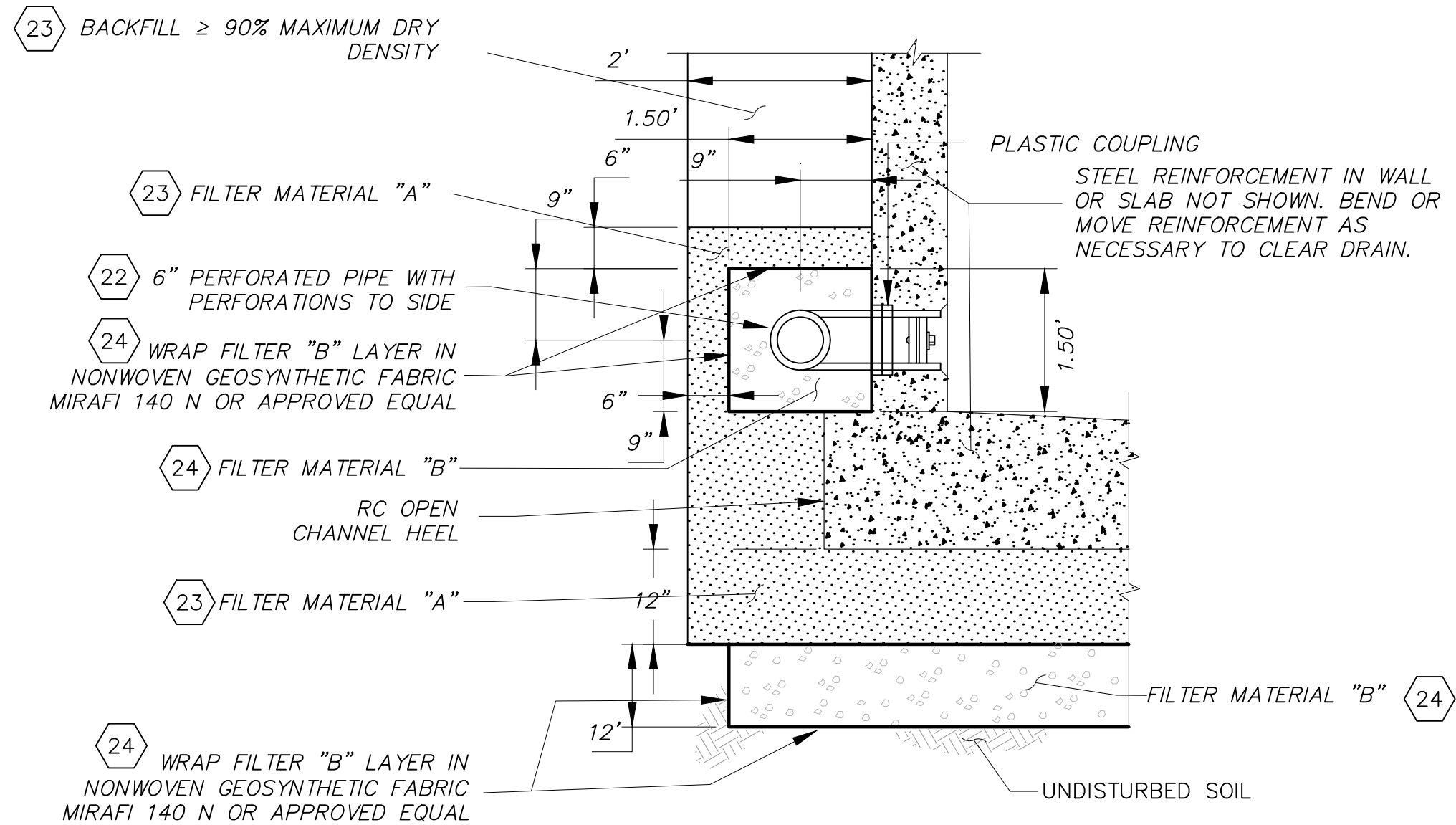
TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE

SIDE DRAINS PLAN AND PROFILE

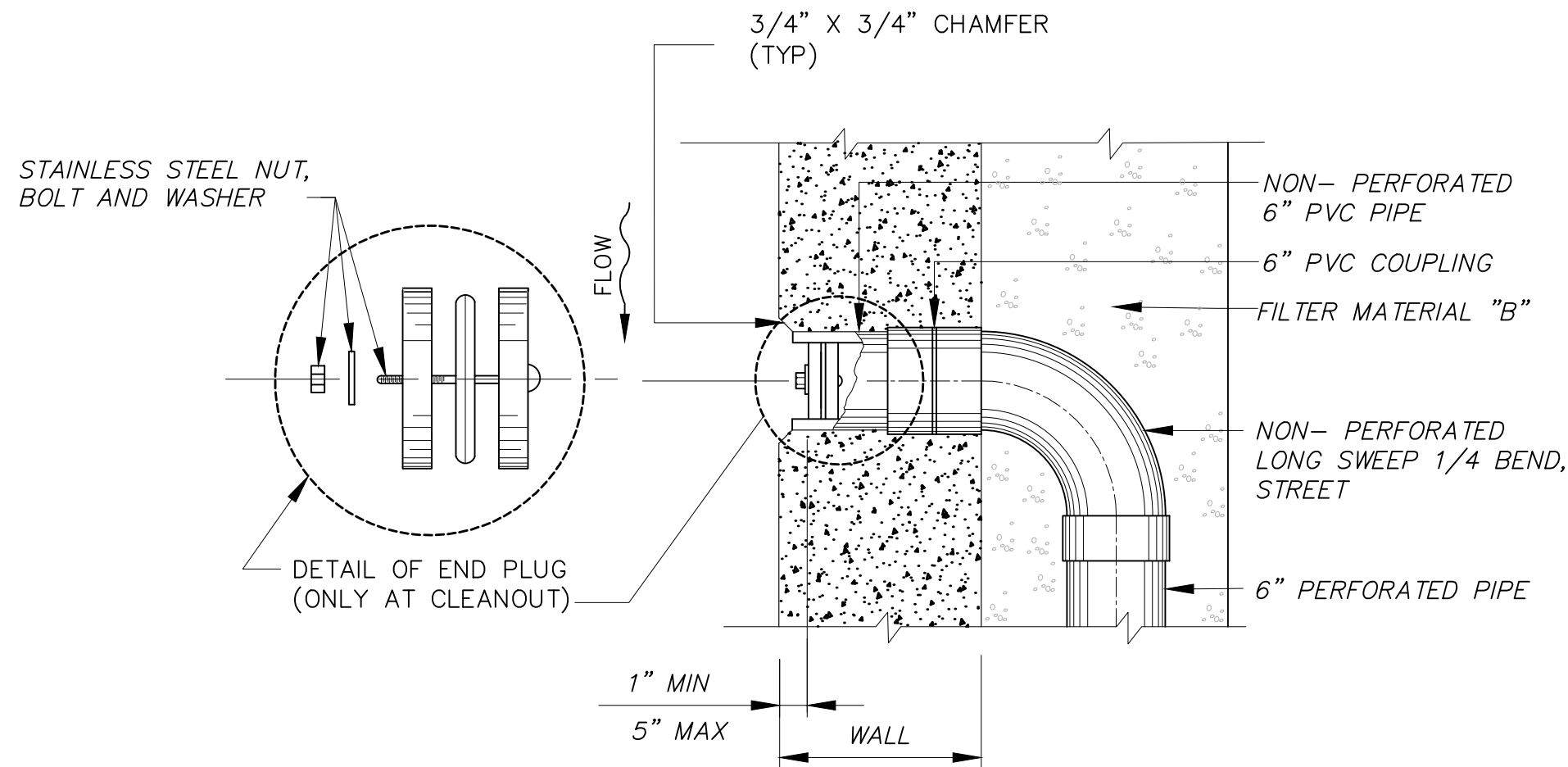
SHEET	10
OF	30
DRAWING SET NO.	WP-2-386



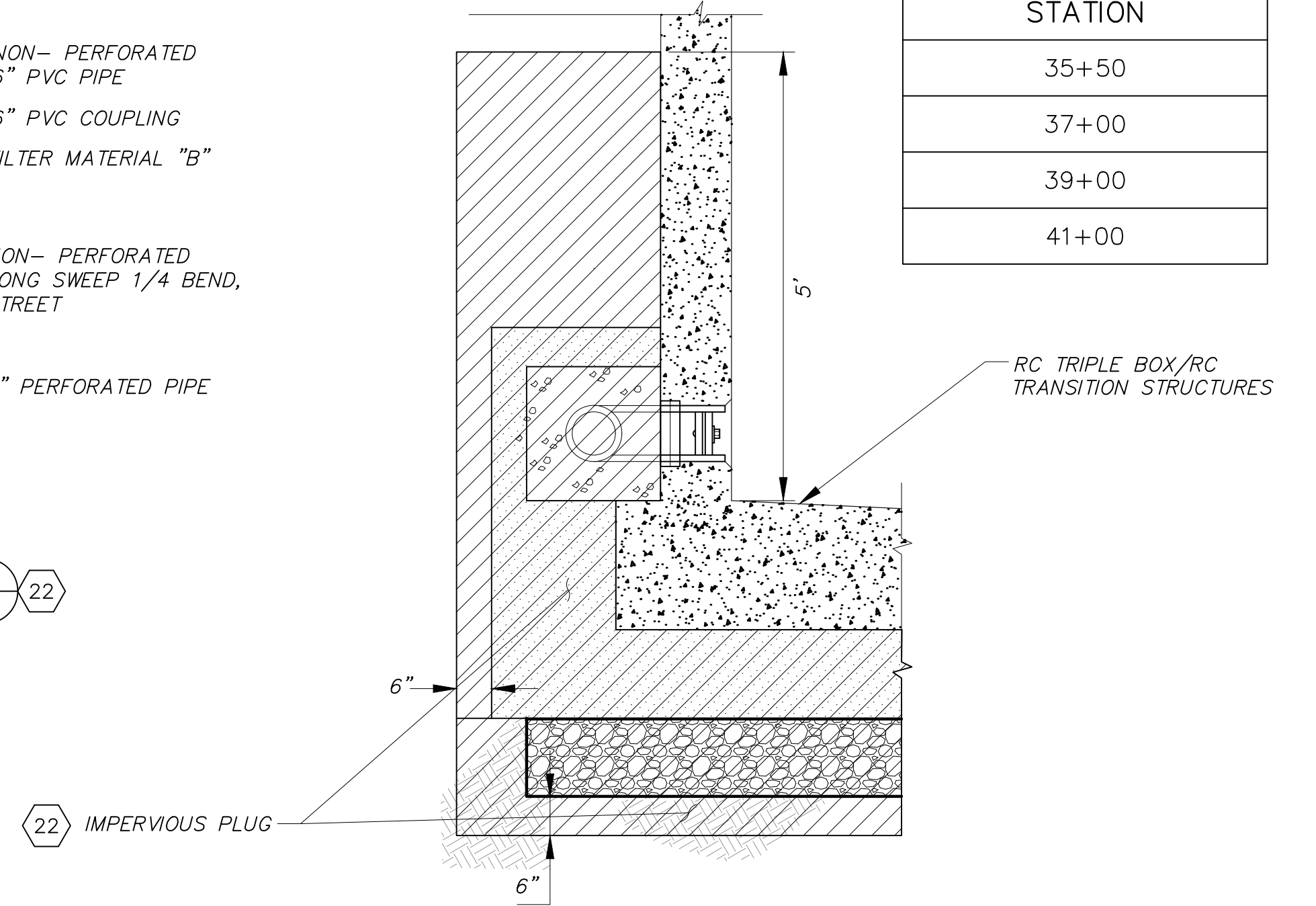
PERFORATED PIPE DETAIL (L1 - 22)



SECTION A-A
1"=2"



CLEANOUT AND INLET END DETAIL (L2 - 22)

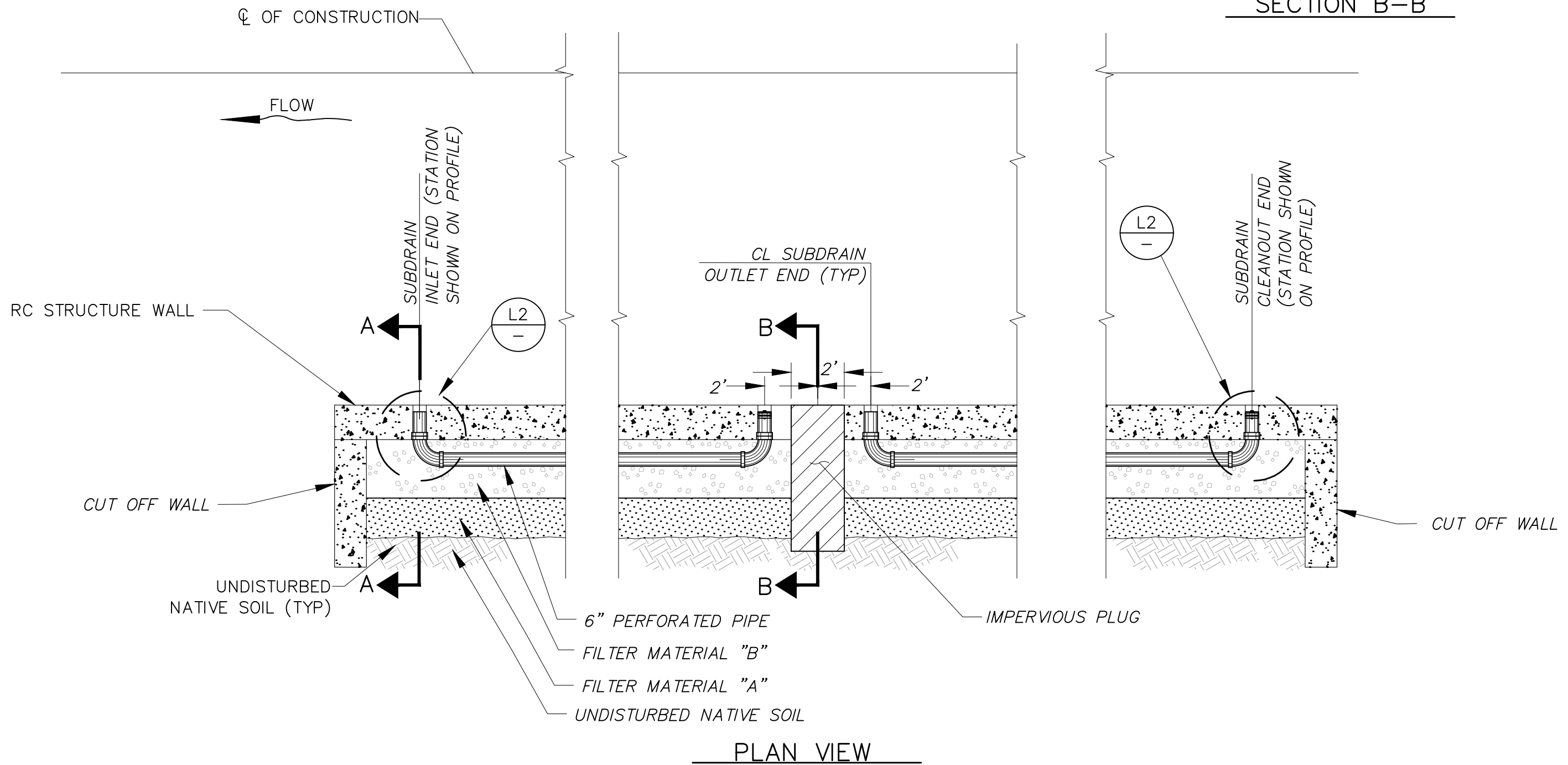


SECTION B-B

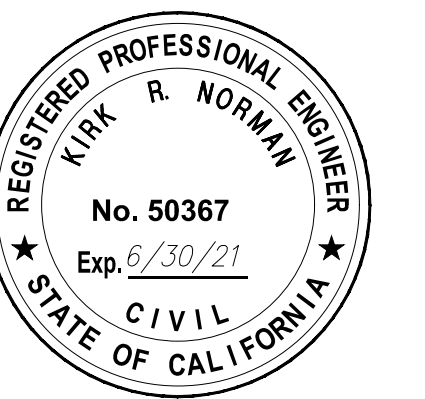
NOTES FOR SUBDRAIN SYSTEM

- SUBDRAINS SHALL BE INSTALLED ALONG EACH WALL IN OPEN AND RC BOX REACHES.
- SUBDRAIN CLEANOUT SHALL BE PLACED AT DESIGNATED LOCATIONS AS SHOWN ON PLAN AND PROFILE SHEETS AND ELSEWHERE AT INTERVALS OF NOT MORE THAN 200 FEET UNLESS OTHERWISE SHOWN.
- ALL PIPE SHALL BE PERFORATED AND SHALL BE POLYVINYL CHLORIDE (PVC) PLASTIC (SCHEDULE 40). PIPE PERFORATIONS SHALL BE ON 120 DEGREE ARC AND FACE OUTWARD FROM THE WALL. (SEE DETAIL HEREON)
- SUBDRAIN INLETS AND CLEANOUT ENDS SHALL BE LOCATED A MINIMUM OF 2 FEET FROM TRANSVERSE CONSTRUCTION JOINTS.
- SUBDRAIN INLETS SHALL BE SET IN WALL AND NO PART OF IT SHALL PROTRUDE BEYOND THE INSIDE FACE OF CHANNEL WALL.
- UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAR ALL SUBDRAINS OF DIRT, RUBBLE, OR OTHER RESTRICTIONS THAT WOULD PROHIBIT FREE FLOW OF WATER THROUGH THE SUBDRAIN PIPE.
- FILTER B MATERIAL SHALL BE PLACED UP TO PIPE INVERT PRIOR TO INSTALLING PIPE.
- AVOID USE OF HEAVY EQUIPMENT NEAR OR OVER THE SUBDRAIN PIPE.
- IMPERVIOUS PLUG SHALL BE PLACED AGAINST CHANNEL WALL AND HEEL AS SHOWN IN SECTION B-B, EQUALLY SPACED BETWEEN CLEANOUT AND END OF WALL DRAINS.

SUBDRAIN SYSTEM (L - 14 - 22)
NOT TO SCALE



PLAN VIEW



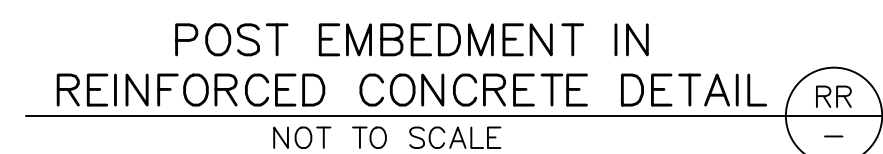
PLOT DATE: 9/21/20

SAVE DATE: 9/23/20 MUELLER, JOHN K:\PROJECTS\ZONE2\TJUMAS\CHUMASH\CREEK\92323_TJUMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DRAWINGS\FINAL PLANS\10 SUBDRAIN DETAILS.DWG

D				J M	9/24/2020	VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION	SPEC. NO.	TJUMAŠ (CHUMASH) CREEK IMPROVEMENTS HUENEME ROAD TO UPSTREAM OF JANE DRIVE	SHEET 11 OF 30
C				JM	9/28/2020		WP21-01		
B				K NORMAN	9/29/2020		PROJ. NO.		
A							82323		
△	REVISION	DESCRIPTION	APP.	DATE	DESIGNED	DATE		SUBDRAIN DETAILS	DRAWING SET NO. WP-2-386

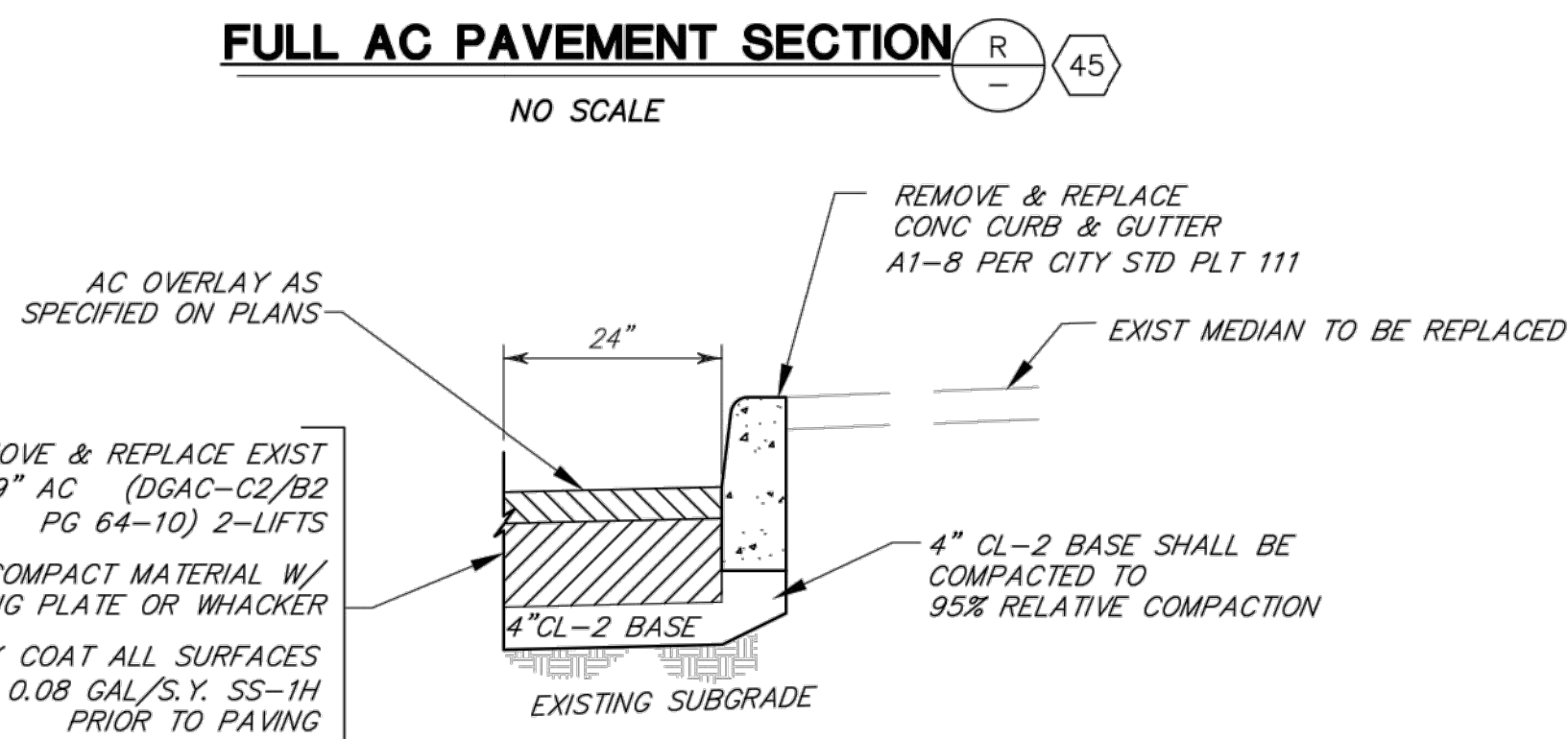
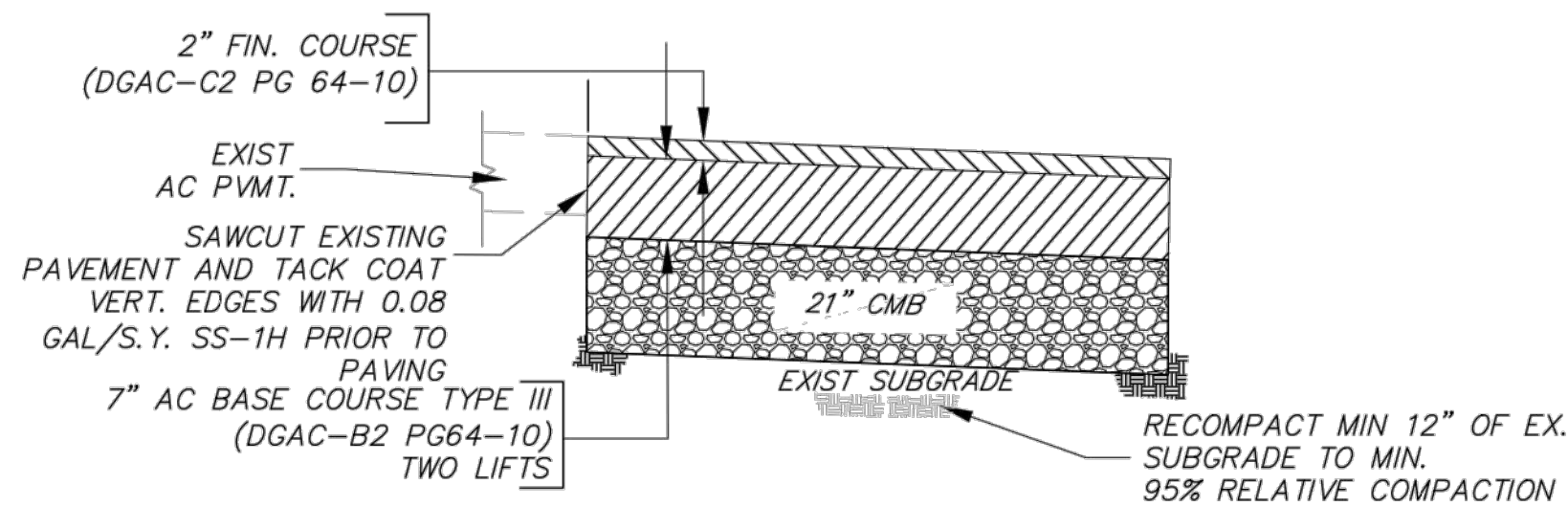


1. FOR CONFIGURATION OF TOP AND BOTTOM EDGE OF CHAIN LINK FABRIC SEE SPECIFICATION.
2. SECURE DRIVE FIT GALVANIZED CAP TO POST WITH 1/4" ROUND HEAD RIVET.
3. INTERMEDIATE AND SLOPE POSTS SHALL BE INSTALLED AT NOT MORE THAN 300' INTERVALS ALONG FENCE LINE AND AT GRADE CHANGES EXCEEDING 5%.
4. SEE POST EMBEDMENT DETAIL SHOWN HEREON FOR POST EMBEDMENT IN CHANNEL WALL.
5. EYE TOPS MAY BE USED FOR LINE POSTS AT LOCATIONS WHERE NO TENSION ROD IS REQUIRED.
6. ALL SURFACES SHALL MEET THE MINIMUM REQUIREMENTS OF COATING AS PER SSPWC 210-3.2 AND TABLE 210-3.2(A).
7. GATE LATCH SHALL BE LOCATED SO THAT THE GATE IS HELD COMPLETELY OFF OF THE ACCESS ROAD AND SHALL ATTACH TO THE GATE BETWEEN 2/3 AND 3/4 OF THE DISTANCE FROM THE SWING GATE POST.
8. THREADED ROD WITH NUT MAYBE USED IN PLACE OF TURN BUCKLE.
9. GATE POSTS SHALL BE CAPPED WITH 6" GALVANIZED STEEL CAP AFTER BEING COMPLETELY FILLED WITH CONCRETE.
10. WELDS SHALL BE SLOT OR FILLET WELDS EQUAL TO THICKNESS OF PIPE. WELD ALL JOINTS ALL AROUND.
11. 4-FT LONG 3/4" GALVANIZED LOCKING CHAIN WELDED AT THE CENTER TO GATE FRAME PIPE AND GALVANIZE THE WELDING AREA.
12. GATE LATCH COMPOSED OF 1/4-INCH GRADE 30 HOT DIP GALVANIZED CHAIN, 8 INCHES IN LENGTH. CHAIN SHALL BE WELDED TO THE SWINGING FACE OF THE GATE FRAME PIPE WITH A 1" X 3 1/2" BRONZE BOLT SNAP ATTACHED TO THE END. THE AREA OF THE WELD SHALL BE GALVANIZED.



1. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF OXNARD STANDARD PLATES AND/OR CONTRACTOR DOCUMENTS, AND SPECIFICATIONS, THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPPWC) LATEST EDITION AND SUPPLEMENT, AND THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) 2018 STANDARD PLANS, WITH THE MOST STRINGENT GOVERNING.
2. AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA – U.S.A. AT 811) AND REQUEST UTILITY OWNERS TO MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR FACILITIES.
3. CITY OWNED UTILITY (WATER, WASTEWATER, STORM DRAIN, SURVEY) MANHOLE VAULTS, VALVE FRAMES AND COVERS, AND METER BOXES SHALL BE SET TO FINISHED GRADE BY THE CONTRACTOR IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR THE CITY OF OXNARD.
4. THE LOCATION OF THE EXISTING UNDERGROUND UTILITIES HAVE BEEN LOCATED IN THE FIELD OR OBTAINED FROM THE BEST AVAILABLE RECORDS. THE CONTRACTOR SHALL ASSUME THE SOLE RESPONSIBILITY FOR CONFIRMING THE EXACT LOCATION OF THESE FACILITIES AND PROTECTING SAME FROM HARM. WHERE UNDERGROUND UTILITIES ARE SHOWN, THE CONTRACTOR SHALL ASSUME EVERY LOT IS SERVED BY A SERVICE CONNECTION FROM EACH UTILITY.
5. DURING ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, OBSERVE, FOLLOW, AND IMPLEMENT ALL THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. ABATE DUST NUISANCE BY CLEANING, SWEEPING, AND SPRINKLING WITH, AND BY USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE ENGINEER THROUGHOUT THE CONSTRUCTION OPERATION.
6. CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS PRIOR TO ORDERING MATERIALS AND COMMENCING WORK.
7. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PERFORMED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
8. ALL DAMAGE CAUSED TO PUBLIC STREETS, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS, STREET FURNISHINGS, AND TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE ENGINEER'S SATISFACTION.
9. ALL DISTURBED MONUMENTS SHALL BE RESET IN ACCORDANCE WITH CITY STANDARD PLATE 609.
10. WHERE JOINING EXISTING PAVEMENT, SAWCUT TO SOUND PAVEMENT AND/OR OVERLAY AS REQUIRED TO PROVIDE PROPER CROSS SLOPE AND GRADE AS DIRECTOR BY THE CITY INSPECTOR. REPLACE ANY UNSOUND PAVEMENT.
11. SAWCUTTING OF EXISTING PAVEMENT SHALL BE TO A CLEAN STRAIGHT EDGE AS DIRECTED BY THE CITY INSPECTOR.
12. PAVEMENT REMOVAL AND REPLACEMENT SHALL BE IN CONFORMANCE WITH THE CITY OF OXNARD STANDARDS AND SPECIFICATIONS. COMPACTION EFFORTS SHALL NOT DISTURB ADJACENT STREET STRUCTURAL SECTION AND EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SUCH DAMAGE.
13. ALL STREET SIGNS REMOVED FOR CONSTRUCTION SHALL BE SALVAGED AND REINSTALLED AT THE LOCATIONS SPECIFIED BY THE INSPECTOR.

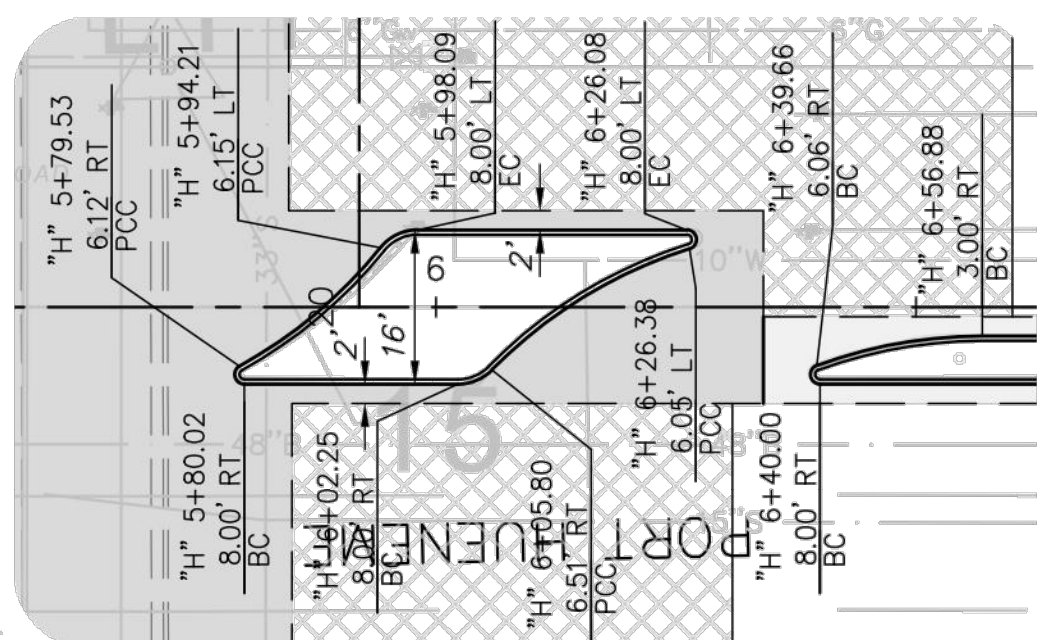
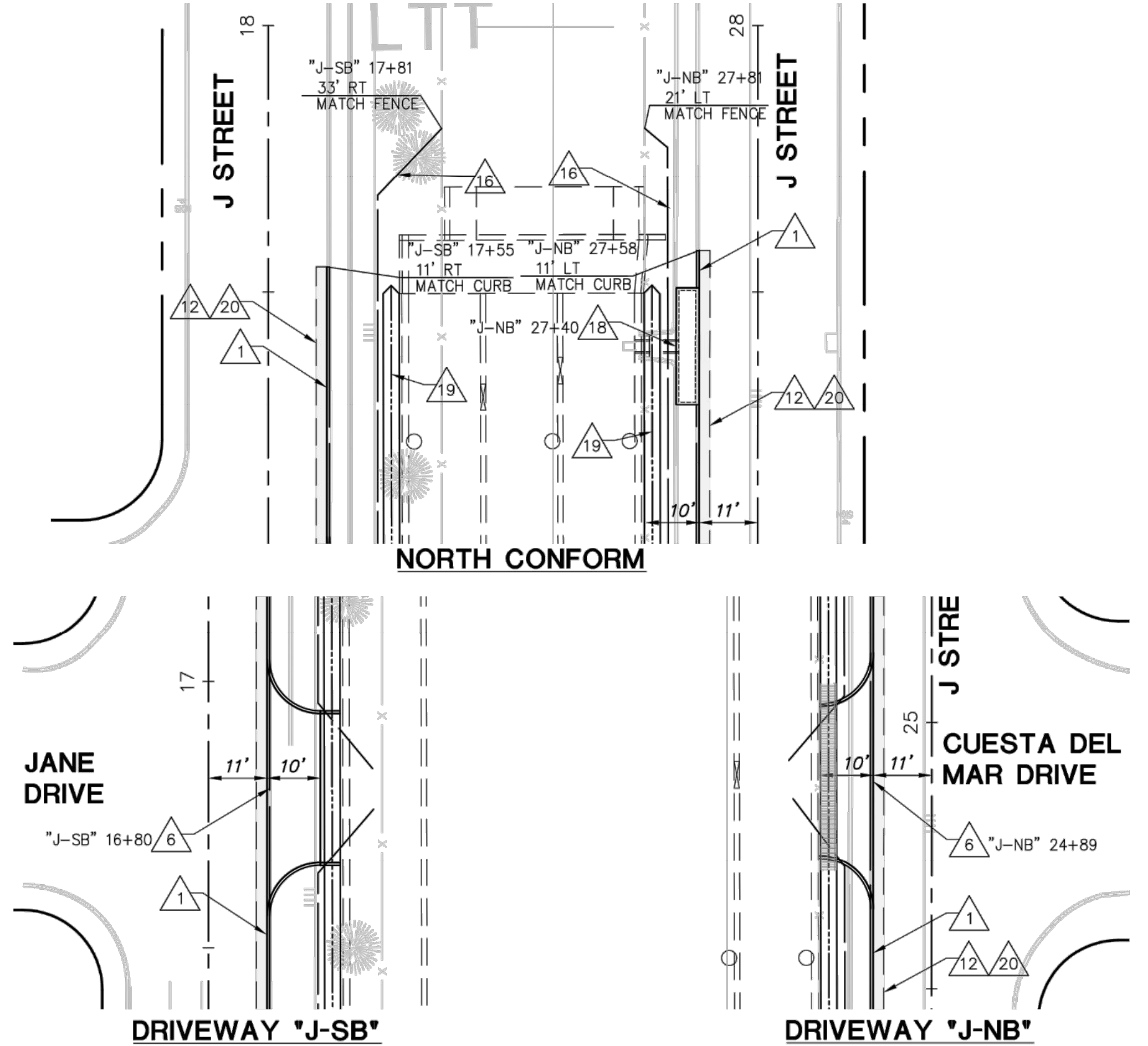
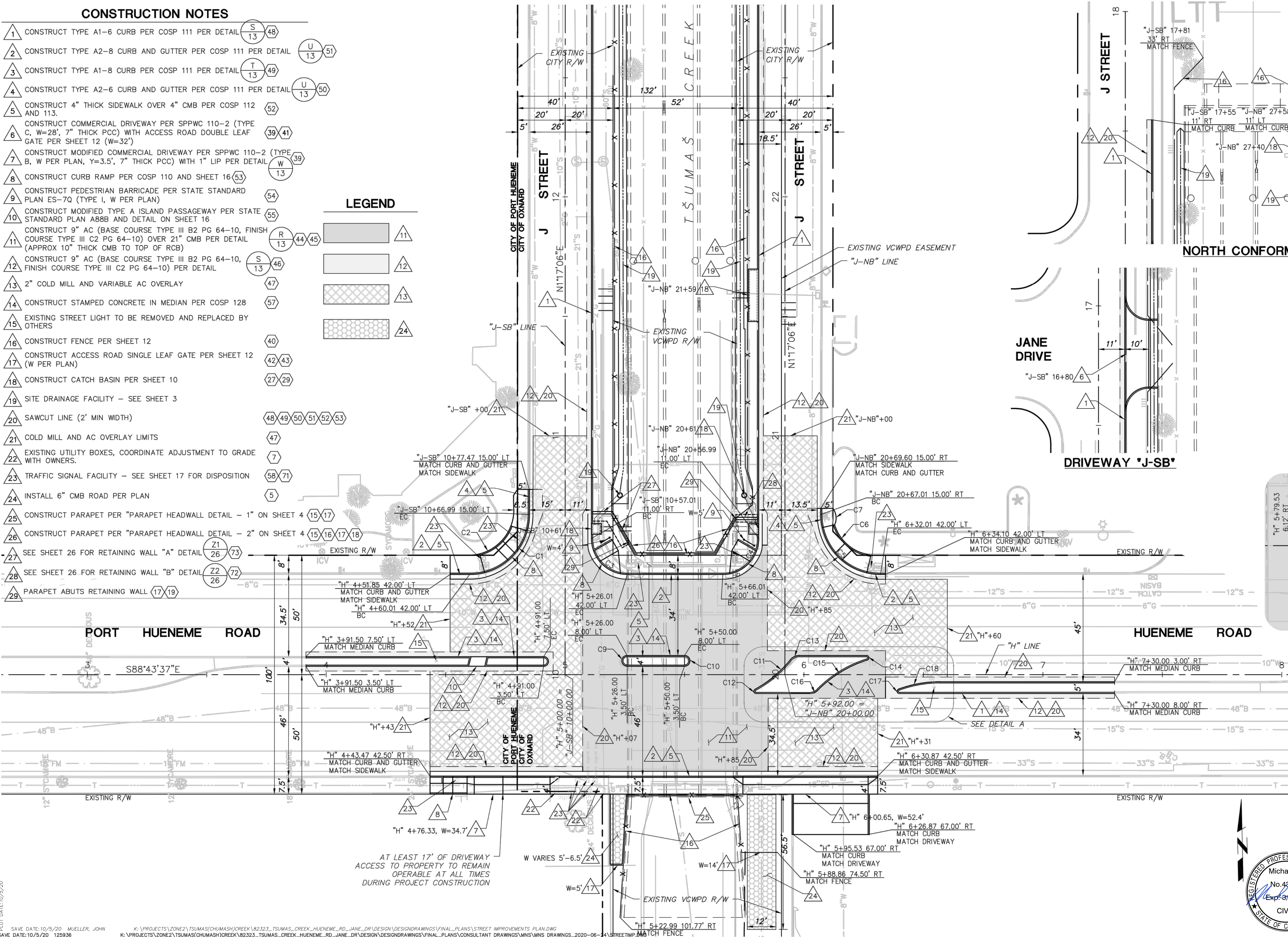
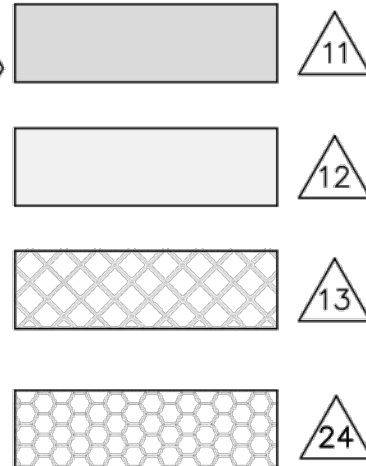
AC	ASPHALT CONCRETE
BC	BEGIN HORIZONTAL CURVE
C-C	CENTER-TO-CENTER
C	CENTERLINE
CMB	CRUSHED MISCELLANEOUS BASE
COSP	CITY OF OXNARD STANDARD PLATE
EC	END HORIZONTAL CURVE
EX	EXISTING
FL	FLOWLINE
FS	FINISHED SURFACE
GB	GRADE BREAK
"H"	HUENEME ROAD, PORT HUENEME ROAD
INV	INVERT
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
O/C	ON CENTER
PCC	POINT OF COMPOUND CURVATURE, PORTLAND CEMENT CONCRETE
R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
R/W	RIGHT-OF-WAY
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
STA	STATION
TC	TOP OF CURB
TG	TOP OF GRATE
TYP	TYPICAL
VCWPD	VENTURA COUNTY WATERSHED PROTECTION DISTRICT



CONSTRUCTION NOTES

- 1 CONSTRUCT TYPE A1-6 CURB PER COSP 111 PER DETAIL (S 13) (48)
- 2 CONSTRUCT TYPE A2-8 CURB AND GUTTER PER COSP 111 PER DETAIL (U 13) (51)
- 3 CONSTRUCT TYPE A1-8 CURB PER COSP 111 PER DETAIL (T 13) (49)
- 4 CONSTRUCT TYPE A2-6 CURB AND GUTTER PER COSP 111 PER DETAIL (U 13) (50)
- 5 CONSTRUCT 4" THICK SIDEWALK OVER 4" CMB PER COSP 112 AND 113. (52)
- 6 CONSTRUCT COMMERCIAL DRIVEWAY PER SPPWC 110-2 (TYPE C, W=28', 7" THICK PCC) WITH ACCESS ROAD DOUBLE LEAF GATE PER SHEET 12 (W=32'). (39) (41)
- 7 CONSTRUCT MODIFIED COMMERCIAL DRIVEWAY PER SPPWC 110-2 (TYPE B, W PER PLAN, Y=3.5', 7" THICK PCC) WITH 1" LIP PER DETAIL (W 13) (39)
- 8 CONSTRUCT CURB RAMP PER COSP 110 AND SHEET 16 (53)
- 9 CONSTRUCT PEDESTRIAN BARRICADE PER STATE STANDARD PLAN ES-7Q (TYPE I, W PER PLAN) (54)
- 10 CONSTRUCT MODIFIED TYPE A ISLAND PASSAGEWAY PER STATE STANDARD PLAN A88B AND DETAIL ON SHEET 16 (55)
- 11 CONSTRUCT 9" AC (BASE COURSE TYPE III B2 PG 64-10, FINISH COURSE TYPE III C2 PG 64-10) OVER 21" CMB PER DETAIL (APPROX 10" THICK CMB TO TOP OF RCB) (R 13) (44) (45)
- 12 CONSTRUCT 9" AC (BASE COURSE TYPE III B2 PG 64-10, FINISH COURSE TYPE III C2 PG 64-10) PER DETAIL (S 13) (46)
- 13 2" COLD MILL AND VARIABLE AC OVERLAY (47)
- 14 CONSTRUCT STAMPED CONCRETE IN MEDIAN PER COSP 128 (57)
- 15 EXISTING STREET LIGHT TO BE REMOVED AND REPLACED BY OTHERS (24)
- 16 CONSTRUCT FENCE PER SHEET 12 (40)
- 17 CONSTRUCT ACCESS ROAD SINGLE LEAF GATE PER SHEET 12 (W PER PLAN) (42) (43)
- 18 CONSTRUCT CATCH BASIN PER SHEET 10 (27) (29)
- 19 SITE DRAINAGE FACILITY - SEE SHEET 3
- 20 SAWCUT LINE (2' MIN WIDTH) (48) (49) (50) (51) (52) (53)
- 21 COLD MILL AND AC OVERLAY LIMITS (47)
- 22 EXISTING UTILITY BOXES, COORDINATE ADJUSTMENT TO GRADE WITH OWNERS. (7)
- 23 TRAFFIC SIGNAL FACILITY - SEE SHEET 17 FOR DISPOSITION (58) (71)
- 24 INSTALL 6" CMB ROAD PER PLAN (5)
- 25 CONSTRUCT PARAPET PER "PARAPET HEADWALL DETAIL - 1" ON SHEET 4 (15) (17)
- 26 CONSTRUCT PARAPET PER "PARAPET HEADWALL DETAIL - 2" ON SHEET 4 (15) (16) (17) (18)
- 27 SEE SHEET 26 FOR RETAINING WALL "A" DETAIL (Z1 26) (73)
- 28 SEE SHEET 26 FOR RETAINING WALL "B" DETAIL (Z2 26) (72)
- 29 PARAPET ABUTS RETAINING WALL (17) (19)

LEGEND



DETAIL A

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
C6	22.91	18.00	72°56'18"
C8	6.28	2.00	180°00'00"
C9	7.07	2.25	180°00'00"
C10	7.07	2.25	180°00'00"
C11	19.25	50.00	22°03'35"
C12	2.64	1.00	151°07'08"
C13	4.45	5.00	50°56'26"
C14	2.84	1.00	162°32'36"
C15	24.34	50.00	27°53'43"
C16	3.96	5.00	45°21'08"
C17	2.79	1.00	159°50'49"
C18	17.59	50.00	20°09'11"



SAVE DATE: 10/5/20 125936

K:\PROJECTS\ZONE2\TUMAS\CHUMASH\CRK\82323_TUMAS_CREEK_HUENEME_RD_JANE_DRIVE\DESIGN\DESIGN\DRAWINGS\FINAL_PLANS\STREET IMPROVEMENTS PLAN.DWG
K:\PROJECTS\ZONE2\TUMAS\CHUMASH\CRK\82323_TUMAS_CREEK_HUENEME_RD_JANE_DRIVE\DESIGN\DESIGN\DRAWINGS\FINAL_PLANS\CONSULTANT DRAWINGS\MNS\DRAWINGS_2020-06-14\STREET IMPROVEMENTS PLAN.DWG

REVISION	DESCRIPTION	APP.	DATE
D			
C			
B			
A			



4580 E. Thousand Oaks Blvd.
Suite 101
Westlake Village, CA 91362
Phone: 805-648-4840
www.mnsengineers.com

MICHAEL IP
DESIGNED
SAM POTTS
DRAWN
ROBERT WILCOX
CHECKED

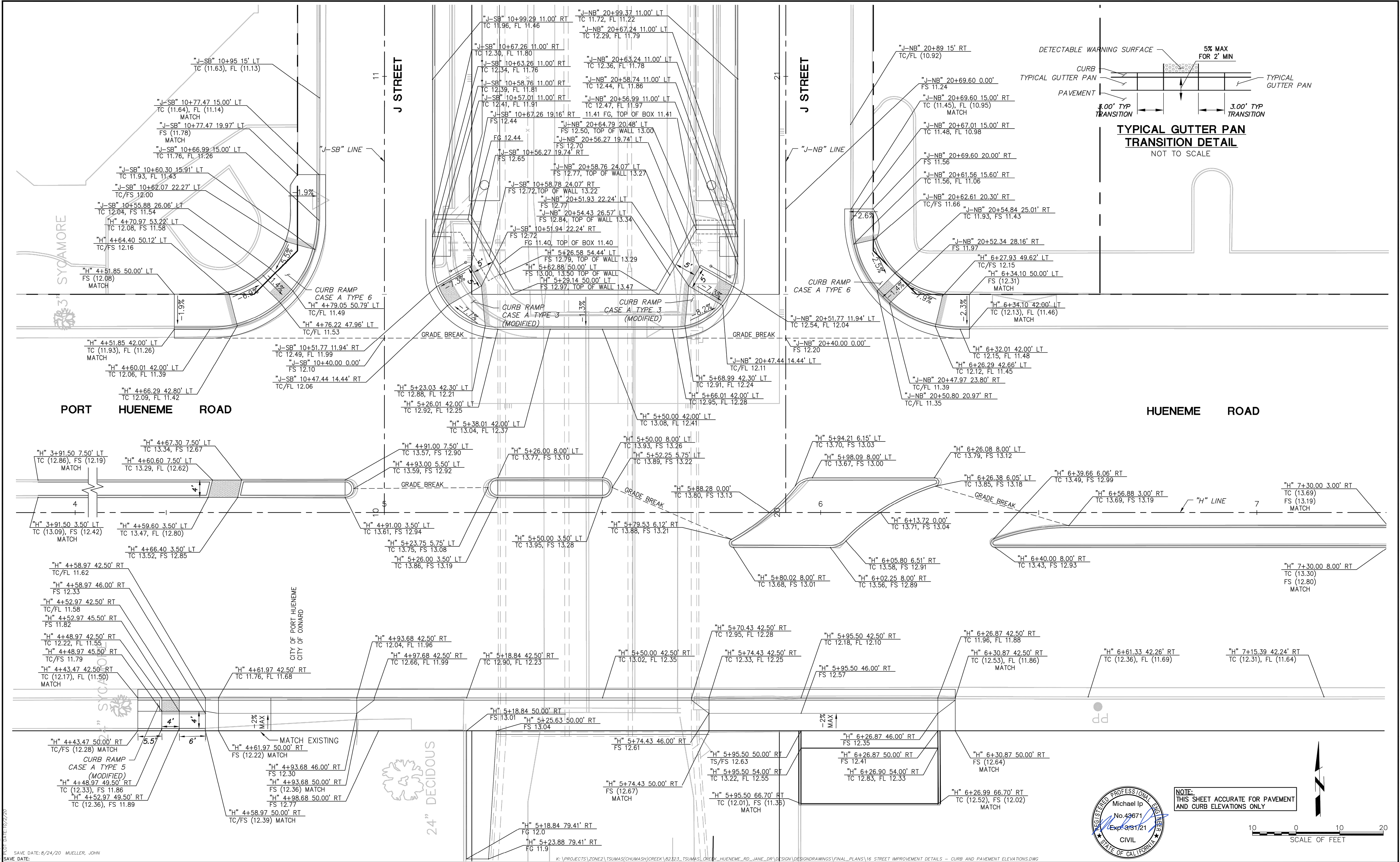
10/05/2020
DATE
10/7/20
DATE
10/7/20
DATE

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO.
WP21-01
PROJ. NO.
82323

TŪMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE
STREET IMPROVEMENT PLAN

SHEET 15
OF 30
DRAWING NO.
WP-2-386



PLOT DATE: 8/24/20
PROJECT DATE: 8/24/20

SAVE DATE: 8/24/20
SAVE DATE: 8/24/20

D	REVISION	DESCRIPTION	APP.	DATE
C				
B				
A				

MNS
ENGINEERS IN C
ENGINEERING | SURVEYING
CONSTRUCTION MANAGEMENT

4580 E. Thousand Oaks Blvd.
Suite 101
Westlake Village, CA 91362
Phone: 805-648-4840
www.mnsengineers.com

MICHAEL IP
DESIGNED

SAM POTTS
DRAWN

ROBERT WILCOX
CHECKED

John R. ...
PROJECT MANAGER

Robert ...
DEPUTY DIRECTOR

10/05/2020
DATE

10/7/20
DATE

10/7/20
DATE

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO.
WP21-01

PROJ. NO.
82323

TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE
STREET IMPROVEMENT DETAILS -
CURB AND PAVEMENT ELEVATIONS

SHEET **16**
OF **30**

DRAWING NO.
WP-2-386

POLE AND EQUIPMENT SCHEDULE

POLE	STANDARDS					VEH. SIGNAL MTG.		PED. SIG.	P.P.B.		POLE LOC.			H.P.S.V.	MAST ARM MOUNTED INTERNALLY ILLUMINATED	COMMENTS
	YEAR STD.	TYPE	HEIGHT	SIGNAL M.A.	LUMIN. M.A.	MAST ARM	POLE	MTG.	Ø	QUAD	E	B	C	Luminare		
A	1988	18-2-80 (E)	17'	25'	-	MAS	SV-2-T (E)	-	-	-	EXISTING			-	J STREET (E)	10
B	1988	1-A (RL)	10'	-	-	-	TV-2-T	SP-1-T	4	2	AS SHOWN			-	-	-
C	1988	1-A (RL)	10'	-	-	-	TV-1-T (N)	SP-1-T (N)	-	-	3'	-	6.5'	-	-	-
CD	2018	PPB-POST (N)	4'-7"	-	-	-	-	-	4/6	2/3	-	M.C.	7'	-	-	-
D	2018	1-A (N)	10'	-	-	-	TV-1-T	SP-1-T	-	-	-	4'	5'	-	-	-
E	2018	23-3-100 (N)	17'	35'	-	MAS	-	-	-	-	2.5'	-	2.5'	-	J STREET RL	-
F	2018	1-A (N)	10'	-	-	-	TV-1-T	TP-1-T	6	1	-	1.5'	3'	-	-	-
G	1988	1-A (RL)	7'	-	-	-	-	TP-1-T	6	4	-	-1'	7.5'	-	-	9
H	1988	1-A (E)	10'	-	-	-	TV-2-T (E)	SP-1-T (E)	6	1	EXISTING			-	-	10

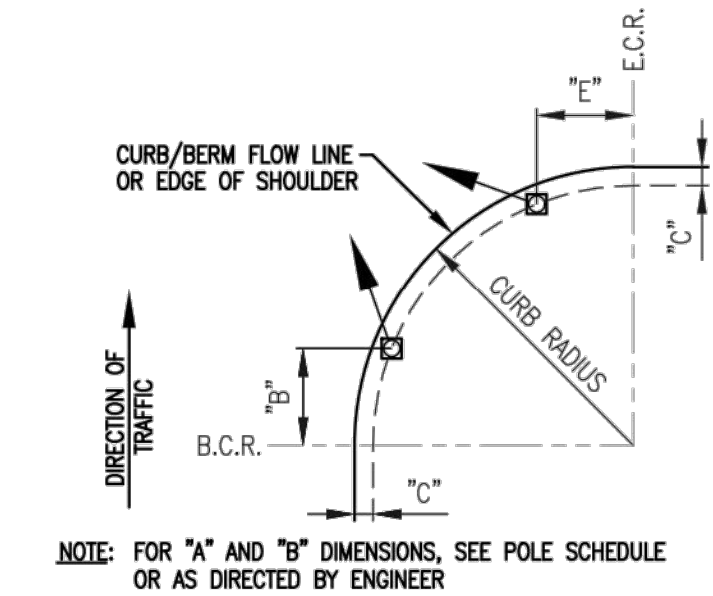
ALL EQUIPMENT IS NEW, UNLESS NOTED (N)=NEW, (RL)=RELOCATED, (E)=EXISTING
EXACT POLE LOCATIONS DETERMINED BY FIELD ENGINEER; POT HOLE FOUNDATIONS PRIOR TO ORDERING POLES.

GENERAL TRAFFIC SIGNAL NOTES:

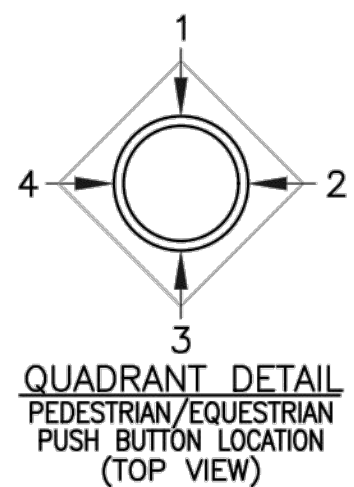
- ALL TRAFFIC SIGNAL WORK, EQUIPMENT AND MATERIALS SHALL CONFORM TO THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS, AS MOST RECENTLY REVISED AND THE CITY OF OXNARD TRAFFIC SIGNAL SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE MADE BY A SEARCH OF THE RECORDS. HOWEVER, NO GUARANTEE IS MADE REGARDING THEIR EXISTENCE OR THAT THE LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITY LINES INCLUDING THOSE NOT SHOWN OR THOSE NOT OF RECORD. CALL "UNDERGROUND SERVICE ALERT" 811 PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REALIGNMENT OF ANY UNDERGROUND UTILITIES DAMAGED BY HIS OPERATIONS.
- A MINIMUM OF TWO WORKING DAYS BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 811 TO REQUEST UTILITY OWNERS TO MARK OR OTHERWISE INDICATE THE LOCATION AND DEPTH OF ALL SUBSURFACE FACILITIES THAT HAVE BEEN MARKED BY THEIR RESPECTIVE OWNERS AND THAT MAY BE AFFECTED BY THE CONTRACTOR OPERATIONS. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND UTILITIES DAMAGED BY HIS OPERATION.
- THE CONTRACTOR SHALL VERIFY WITH THE CITY TRAFFIC ENGINEER THE PRECISE FIELD LOCATIONS FOR ALL TRAFFIC SIGNAL EQUIPMENT PRIOR TO INSTALLATION.
- ALL NEW PULL BOXES SHALL BE NO. 6 UNLESS OTHERWISE SPECIFIED.
- CONDUITS SHALL BE 4" HDPE SCHEDULE 80, UNLESS OTHERWISE SPECIFIED. ALL INTERCONNECT CONDUITS SHALL BE 4" MINIMUM, UNLESS APPROVED BY THE CITY, AND SHALL HAVE A SWEEP OF 45 DEGREES OR LESS INTO ALL PULL BOXES.
- ALL SIGNAL HEADS SHALL BE 12" POLYCARBONITE. ALL BACKPLATES SHALL BE METAL.
- ALL VEHICLE INDICATIONS SHALL BE LED PER CITY STANDARDS.
- ALL PEDESTRIAN INDICATIONS SHALL BE COUNTDOWN LED PER CITY STANDARDS.
- LUMINAIRES SHALL BE LED.
- CONTRACTOR SHALL COORDINATE TRAFFIC SIGNAL WORK WITH OTHER CONTRACTOR(S) DURING DEMOLITION AND CONSTRUCTION OF STREET IMPROVEMENTS.
- SERVICE POWER SOURCE AT EDISON VAULT. ARRANGE WITH EDISON SERVICE PLANNER; BRIAN DEPPEN (805) 654-7215.
- CONTRACTOR SHALL COORDINATE SIGNAL TURN ON WITH THE CITY TRAFFIC ENGINEER.
- LOOPING SIGNAL CONDUCTORS UP AND DOWN POLES SHALL NOT BE PERMITTED. SPLICES ARE ALLOWED IN PULL BOXES ONLY.
- ALL PEDESTRIAN PUSH BUTTONS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.
- ALL SIGNAL EQUIPMENT SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET FOR PHASE IDENTIFICATION.
- ALL NEW SIGNAL CABLES SHALL BE CONTINUOUS AND TERMINATED AT THE TERMINAL BLOCKS (SIGNAL POLE AND THE CABINET).
- ALL SIGNS SHALL BE STANDARD SIZE FOR CONVENTIONAL ROADS PER THE LATEST CAL TRANS SIGN SPECIFICATIONS UNLESS OTHERWISE SPECIFIED AND SHALL HAVE MINIMUM 3M HIGH-INTENSITY PRISMATIC RETRO-REFLECTIVE SHEETING.
- DETECTOR LOOPS SHALL BE 6" DIAMETER (TYPE "E"). EACH LOOP ASSIGNMENT SHALL HAVE A SEPARATE LEAD-IN CABLE TO CONTROLLER.
- ALL UNUSED SIGNAL ARM TENONS MUST BE CAPPED.
- ALL CROSSWALK AND LIMIT LINE WORK SHALL BE INSTALLED PRIOR TO SIGNAL TURN ON.
- ANY MODIFICATIONS OF OR CHANGES TO APPROVED PLANS MUST BE APPROVED BY THE CITY TRAFFIC ENGINEER.
- COMMUNICATION (FIBER OPTIC) CONDUIT AND CABLE SHALL BE ISOLATED FROM TRAFFIC SIGNAL SYSTEM.

CONSTRUCTION NOTES:

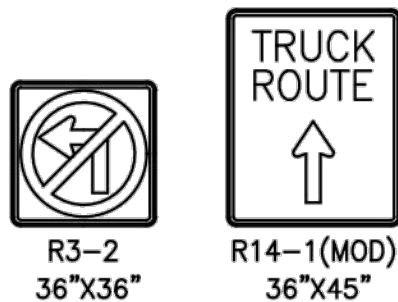
- EXISTING MODEL 170ATC CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT IN A MODEL 332 CABINET.
- EXISTING TYPE III-BF SERVICE WITH 50 AMP METERED SIGNAL CIRCUIT, 15 AMP METERED I.I.S.N.S. CIRCUIT, 30 AMP UNMETERED LIGHTING CIRCUIT.
- REMOVE EXISTING TRAFFIC SIGNAL POLE WITH FOUNDATION, COMPLETE. ALL EXISTING EQUIPMENT AND SIGNS, MINUS PUSH-BUTTON ASSEMBLY, SHALL BE RELOCATED TO THE NEW TRAFFIC SIGNAL POLE (E).
- RELOCATE EXISTING TRAFFIC SIGNAL POLE WITH ALL EXISTING EQUIPMENT AND SIGNS TO NEW LOCATION AS SHOWN PER PLAN. EXISTING PUSH-BUTTON ASSEMBLY SHALL BE REMOVED AND HOLE PLUGGED TO THE APPROVAL OF THE CITY.
- REMOVE TEMPORARY STEEL PLATE AND INSTALL EXISTING TRAFFIC SIGNAL POLE WITH ALL EXISTING EQUIPMENT AND SIGNS TO NEW LOCATION AS SHOWN PER PLAN. EXISTING PUSH-BUTTON ASSEMBLY SHALL BE RELOCATED TO THE OPPOSITE SIDE OF POLE WITH NEW DIRECTIONAL PLAQUE. REMAINING HOLE(S) SHALL BE PLUGGED TO THE APPROVAL OF THE CITY.
- RELOCATE EXISTING TRAFFIC SIGNAL POLE WITH ALL EXISTING EQUIPMENT AND SIGNS TO NEW LOCATION AS SHOWN PER PLAN.
- INSTALL RELOCATED MAST ARM SIGNS AS SHOWN PER PLAN.
- EXISTING 2"C: 2(#6) FOR SERVICE, AND 4(#12).
- CONTRACTOR IS TO ROTATE EXISTING PUSH BUTTON ASSEMBLY TO NEW ORIENTATION. HOLES ARE TO BE PROPERLY SEALED TO THE SATISFACTION OF THE CITY ENGINEER.
- TRAFFIC SIGNAL POLE AND ADJACENT SIGNAL EQUIPMENT SHALL BE ADJUSTED TO GRADE, AS PER THE PROJECT STREET IMPROVEMENT PLANS.
- TO BE ABANDONED. IF APPLIED TO CONDUIT, REMOVE CABLES/CONDUCTORS.
- CONNECT NEW CONDUIT INTO EXISTING PULLBOX. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
- CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
- RELOCATE EQUIPMENT.
- REMOVE AND REUSE EQUIPMENT.
- REMOVE AND SALVAGE EQUIPMENT.



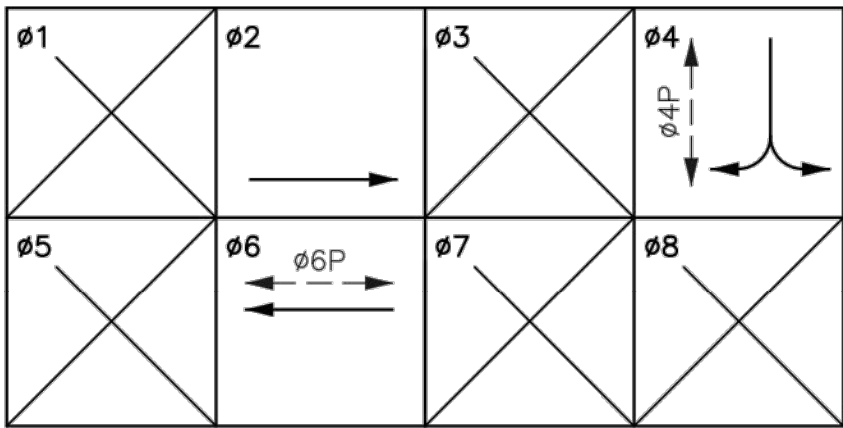
(TYPICAL SIGNAL POLE PLACEMENT, UNLESS SHOWN ON PLANS)
SIGNAL STANDARD PLACEMENT DIMENSIONS
AND EQUIPMENT LOCATIONS



SIGN LEGEND:



EXISTING PHASE DIAGRAM



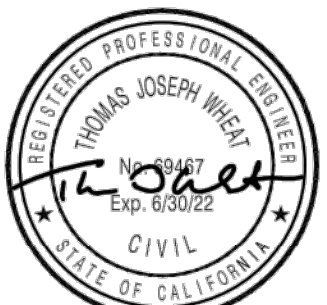
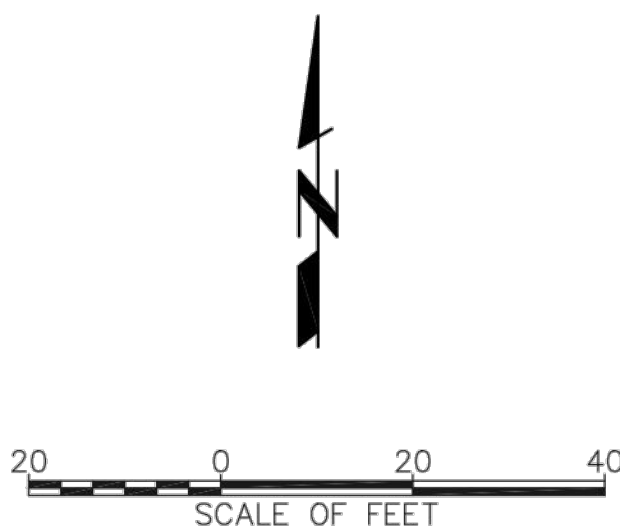
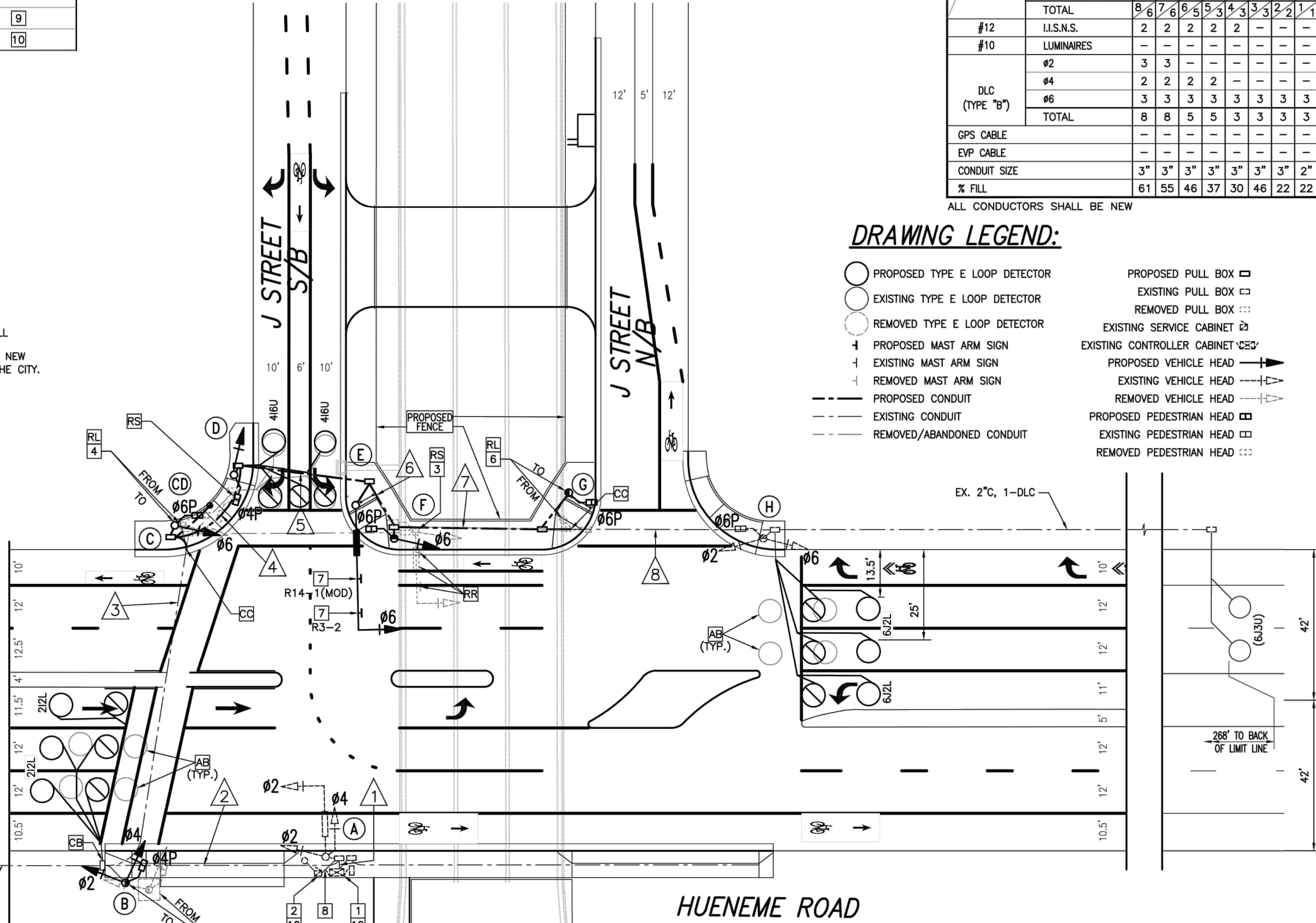
CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	CONDUIT RUN NUMBER							
		(E)	(N)	(N)	(N)	(N)	(N)	(N)	(N)
12 CONDUCTOR	POLE - (A)	1	-	-	-	-	-	-	-
	(B)	1	1	1	-	-	-	-	-
	(C)	1	1	1	-	-	-	-	-
	(D)	2	2	2	-	-	-	-	-
	(E)	1	1	1	-	-	-	-	-
	(F)	1	1	1	1	1	1	1	-
	(G)	1	1	1	1	1	1	1	1
	(H)	1	1	1	1	1	1	1	1
TOTAL		8	6	6	6	5	4	3	2
#12	I.I.S.N.S.	2	2	2	2	2	-	-	-
#10	LUMINAIRES	-	-	-	-	-	-	-	-
DLC (TYPE "B")	ø2	3	3	-	-	-	-	-	-
	ø4	2	2	2	2	-	-	-	-
	ø6	3	3	3	3	3	3	3	3
	TOTAL	8	8	5	5	3	3	3	3
GPS CABLE		-	-	-	-	-	-	-	-
EVP CABLE		-	-	-	-	-	-	-	-
CONDUIT SIZE		3"	3"	3"	3"	3"	3"	3"	2"
% FILL		61	55	46	37	30	46	22	22

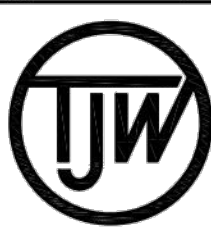
ALL CONDUCTORS SHALL BE NEW

DRAWING LEGEND:

- PROPOSED TYPE E LOOP DETECTOR
- EXISTING TYPE E LOOP DETECTOR
- REMOVED TYPE E LOOP DETECTOR
- PROPOSED MAST ARM SIGN
- EXISTING MAST ARM SIGN
- REMOVED MAST ARM SIGN
- PROPOSED CONDUIT
- EXISTING CONDUIT
- REMOVED/ABANDONED CONDUIT
- PROPOSED PULL BOX
- EXISTING PULL BOX
- REMOVED PULL BOX
- EXISTING SERVICE CABINET
- EXISTING CONTROLLER CABINET
- PROPOSED VEHICLE HEAD
- EXISTING VEHICLE HEAD
- REMOVED VEHICLE HEAD
- PROPOSED PEDESTRIAN HEAD
- EXISTING PEDESTRIAN HEAD
- REMOVED PEDESTRIAN HEAD



REVISION	DESCRIPTION	APP.	DATE
D			
C			
B			
A			



TJW ENGINEERING, INC.
Traffic Engineering &
Transportation Planning Consultants
6 Venture, Suite 225, Irvine, CA 92618
t: (949) 878-3509 f: (949) 878-3593
www.tjwengineering.com

STEVE ZEVALLOS
DESIGNED
STEVE ZEVALLOS
DRAWN
THOMAS WHEAT
CHECKED

Kirk Rasmussen
WATERSHED PROJECT MANAGER
DATE 8/26//2020
WATERSHED DEPUTY DIRECTOR
DATE
WATERSHED DIRECTOR
DATE

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

SPEC. NO.
WP21-01
PROJ. NO.
82323

**TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE**
TRAFFIC SIGNAL MODIFICATION PLAN

SHEET 17
OF 30
DRAWING SET NO.
WP-2-386

TRAFFIC CONTROL GENERAL NOTES

1. THE CITY OF OXNARD AND THE CITY OF PORT HUENEME RESERVE THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL DRAWINGS IN USE WITHIN THEIR JURISDICTION AND TO MAKE ANY NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES REQUESTED BY THE CITY OF OXNARD OR THE CITY OF PORT HUENEME SHALL SUPERCEDE THESE DRAWINGS. FIELD CHANGES, OTHER THAN MINOR ADJUSTMENTS APPROVED BY THE CITY'S INSPECTOR OR OTHER AUTHORIZED AGENT, MUST BE AUTHORIZED IN WRITING BY THE CITY OF OXNARD TRANSPORTATION SERVICES MANAGER OR CITY TRAFFIC ENGINEER. SIGNIFICANT CHANGES WILL BE HANDLED AS EXTRA WORK.
2. ALL WORK TO BE DONE IS SUBJECT TO THE TERMS AND CONDITIONS AND SPECIAL CONDITIONS SET FORTH IN THE CITY-ISSUED ENCROACHMENT PERMIT(S). IN CASE OF CONFLICT BETWEEN THE ENCROACHMENT PERMIT AND THESE TRAFFIC CONTROL DRAWINGS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE TRAFFIC CONTROL DEVICES AS SHOWN HERON, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED TO ENSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK ZONE, AND PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS.
4. ALL TRAFFIC CONTROL DEVICES, STRIPES, MARKING, LEGENDS, AND RAISED PAVEMENT MARKERS AND THEIR PLACEMENT SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD). THE SOUTHERN CALIFORNIA CHAPTER APWA "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH MANUAL) MAY BE REFERRED TO AS A SUPPLEMENT TO THE CALIFORNIA MUTCD .
5. PLAN IMPLEMENTATION AND DEVICE PLACEMENT SHALL BE PERFORMED BY TRAINED PERSONNEL.
6. LOCATION OF SIGNS SHOWN ON THE PLANS ARE APPROXIMATE. ADJUSTMENTS TO LOCATIONS OF SIGNS MAY BE REQUIRED TO SUIT FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON A PUBLIC STREET TO INSTALL AND MAINTAIN CONTROL DEVICES AS SHOWN HEREON, AS WELL AS ANY SUCH ADDITIONAL DEVICES AS MAY BE REQUIRED TO INSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.
6. ALL SIGNS SHALL BE STANDARD SIZE AND REFLECTORIZED AS LISTED IN ACCORDANCE WITH TABLE 6F-1 OF THE CA-MUTCD.
7. UNLESS OTHERWISE SHOWN ON THE PLAN THE COLOR OF CONSTRUCTION SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON ORANGE BACKGROUND.
8. CHANNELIZERS SHALL BE MINIMUM 36" HEIGHT AND INCLUDE HIGH-INTENSITY REFLECTORIZED SHEETING.
9. CONES SHALL BE MINIMUM 28" HEIGHT AND INCLUDE 13" HIGH-INTENSITY REFLECTORIZED SLEEVE.
10. TEMPORARY LANE SEPARATORS SHALL COMPLY WITH SECTION 6F.72 OF THE CA-MUTCD.
11. CONTRACTOR SHALL PROVIDE TYPE B HIGH-INTENSITY FLASHING BEACONS/WARNING LIGHTS ON ALL W20-1 SIGNS AND ON TYPE III BARRICADES NEAR ACTIVE WORK AREAS.
12. USE AND PLACEMENT OF FLASHING ARROW BOARD SIGNS SHALL BE AS SHOWN ON THE PLAN AND AS DIRECTED BY THE ENGINEER. ALL TRAFFIC TRANSITIONS SHALL UTILIZE ARROW BOARDS.
13. CONTRACTOR SHALL POST ADVANCE NOTICE ELECTRONIC PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) ON EACH SIDE OF CONSTRUCTION A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE TO ANY ROAD/LANE CLOSURES PER THESE PLANS AND AS DIRECTED BY THE ENGINEER.
14. TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE OVERNIGHT SHALL BE LIGHTED.
15. CONTRACTOR SHALL NOTIFY CITY OF OXNARD CONSTRUCTION SERVICES AT 805-797-0818 TWO (2) DAYS PRIOR TO START OF WORK.
16. CONTRACTOR SHALL COORDINATE WITH CITY OF OXNARD TRAFFIC ENGINEER FOR SIGNAL OPERATIONS DURING CONSTRUCTION.
17. CONTRACTOR SHALL REPLACE ANY TRAFFIC SIGNAL LOOPS DAMAGED WITHIN SEVENTY-TWO (72) HOURS, PER THE LATEST EDITION OF CALTRANS STANDARD PLANS. LAYOUT OF LOOPS SHALL BE VERIFIED BY THE CITY OF OXNARD TRAFFIC ENGINEER PRIOR TO INSTALLATION.
18. TRAFFIC CONTROL DEVICES SHALL NOT BE PLACED ON PRIVATE PROPERTY.
19. ALL CONFLICTING STRIPING SHALL BE REMOVED USING WET SANDBLAST.

ACCESS AND SAFETY NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS AS APPLICABLE.
2. CONTRACTOR SHALL MAINTAIN VEHICLE ACCESS TO ALL DRIVEWAYS AT ALL TIMES. IF DRIVEWAY CLOSURES ARE REQUIRED, CONTRACTOR SHALL PROVIDE NOTICES OF DRIVEWAY CLOSURE TO PROPERTY OWNERS AT LEAST FIVE (5) WORKING DAYS IN ADVANCE.
3. CONTRACTOR SHALL PROVIDE NOTICES OF STREET CLOSURE TO THE POLICE DEPARTMENT, FIRE DEPARTMENT, AND AFFECTED RESIDENTS AND BUSINESS AT LEAST FIVE (5) WORKING DAYS IN ADVANCE, AND SHALL PROVIDE DOCUMENTATION OF SUCH NOTIFICATION TO THE INSPECTOR PRIOR TO CLOSURE.
4. CONTRACTOR SHALL NOTIFY GOLD COAST TRANSIT AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF ANY TRAFFIC CONTROLS THAT BLOCK BUS ACCESS TO EXISTING BUS STOPS OR THAT REQUIRE BUS ROUTE DETOURS.
5. PAVEMENT REMOVAL, RECONSTRUCTION, AND PAVEMENT OVERLAY SHALL BE SINGLE LANE CLOSURE ON PORT HUENEME ROAD/HUENEME ROAD AS DIRECTED BY THE ENGINEER AND/OR CITY OF OXNARD TRAFFIC ENGINEER.
6. A MINIMUM OF FIVE (5) FEET OF LATERAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE EDGE OF TRAVELED WAY AND ANY OPEN EXCAVATION. TEMPORARY CONCRETE RAILING (TYPE K PER CALTRANS STANDARD PLAN T3A AND T3B) ("K-RAIL") SHALL BE UTILIZED WHEN SHOWN ON THE PLANS.
7. TRENCH PLATING AND SHORING SHALL BE PREPARED AND SIGNED/SEALED BY A CALIFORNIA REGISTERED CIVIL ENGINEER.
8. CONTRACTOR IS RESPONSIBLE FOR ALL SHEETING/SHORING TO PROTECT EXCAVATIONS FROM SLOUGHING, EROSION, AND IMPACT OF ALL LIVE AND DEAD LOADS.
9. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT (ADA) AND CALIFORNIA ACCESSIBILITY GUIDELINES AND MAINTAIN ALL PEDESTRIAN AND DETOUR FACILITIES IN AND ADJACENT TO WORK ZONES TO PROVIDE SAFETY AND FUNCTIONALITY.
10. SIDEWALK CLOSURES SHALL COMPLY WITH THE CA-MUTCD.
11. CONTRACTOR SHALL REGULARLY INSPECT DETOUR PATHWAYS AND TRAFFIC CONTROL DEVICES FOR ADEQUACY OF PEDESTRIAN TRAFFIC HAZARDS.
12. TEMPORARY PATHWAY SURFACES SHALL BE TREATED WITH NON-SLIP MATERIALS/FINISHES AND KEPT FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED MATERIALS, ETC.
13. "NO PARKING" SIGNS SHALL BE PLACED SEVENTY-TWO (72) HOURS IN ADVANCE OF ALL AREAS WHERE TRAFFIC CONTROLS ARE TO BE INSTALLED AND FIFTY (50) FEET BEYOND THOSE TRAFFIC CONTROLS.
14. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS, RESIDENCES, AND BUSINESSES AT ALL TIMES UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENCES AND BUSINESSES AT LEAST 72 HOURS IN ADVANCE PRIOR TO CLOSURE OF A DRIVEWAY OR ACCESS.
15. END TREATMENTS SHALL BE DESIGNED FOR EACH APPLICATION TO STOP OR REDIRECT ERRANT VEHICLES UNDER PRESCRIBED CONDITIONS. END TREATMENTS SHALL BE PERIODICALLY INSPECTED TO VERIFY THAT THEY HAVE NOT BEEN HIT OR DAMAGED. DAMAGED END TREATMENT SHALL BE PROMPTLY REPAIRED OR REPLACED TO MAINTAIN THEIR CRASHWORTHINESS.
16. CONTRACTOR SHALL MAINTAIN PEDESTRIAN CROSSWALK AND SIGNAL OPERATION WITH ACCESSIBILITY THROUGHOUT THE DURATION OF CONSTRUCTION.

SUGGESTED STAGE CONSTRUCTION SEQUENCE

STAGE 1

- REMOVE EXISTING RAISED MEDIANS AND CONSTRUCT TEMPORARY AC
- REMOVE EXISTING STREET LIGHT
- CONSTRUCT ROB AND TRANSITION FROM AT STATION 33+77 (SOUTH CONFORM) TO STATION 34+60 (83 LF)
- CONSTRUCT TEMPORARY PEDESTRIAN FACILITIES ON EASTBOUND HUENEME ROAD

STAGE 2

- CONSTRUCT ROB FROM STATION 34+60 TO STATION 34+94 (34 LF)

STAGE 3

- CONSTRUCT ROB FROM STATION 34+94 TO STATION 35+50 (56 LF)

STAGE 4

- CONSTRUCT ROB AND TRANSITION FROM STATION 35+76 TO STATION 42+38 (NORTH CONFORM)
- CONSTRUCT RAISED MEDIAN, CURBS, SIDEWALKS, CURB RAMPS, PAVEMENT, GRIND AND OVERLAY, TRAFFIC SIGNAL IMPROVEMENTS, AND RESET STREET LIGHT
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR INTERSECTION ROADWAY WORK
- CONTRACTOR SHALL KEEP AT LEAST 12' OF VEHICULAR TRAVELED WAY WIDTH OPEN ON J STREET IN BOTH DIRECTIONS AT ALL TIMES

CONSTRUCTION WORKING HOURS

1. WORKING HOURS AUTHORIZED BY THE CITY OF OXNARD SHALL NOT BE VIOLATED. VIOLATIONS MAY RESULT IN A STOP-WORK ISSUED BY THE CITY INSPECTOR

PLOT DATE: 8/5/20
PLOT DATE: 8/20/20

SAVE DATE: 8/24/20 DOKTOROV, NATALIYA K:\PROJECTS\ZONE2\TSUMAS\CHUMASH\CREEK\82323_TSUMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\TRAFFIC CONTROL GENERAL NOTES.DWG
SAVE DATE: 6/22/20 SPOTTS C:\BOX\PROJECTS\COVEN VENTURA\COVEN.180235.01 TSUMAS CREEK AT HUENEME ROAD\2 ENGINEERING\CAD\2 SHEETS\GENERALNOTES-SC-TTC.DWG

D			
C			
B			
A			
△	REVISION	DESCRIPTION	APP. DATE



4580 E. Thousand Oaks Blvd.
Suite 101
Westlake Village, CA 91362
Phone: 805-848-4840
www.mnsengineers.com

MICHAEL IP
DESIGNED
SAM POTTS
DRAWN
ROBERT WILCOX
CHECKED

<i>Sam Potts</i> WATERSHED PROJECT MANAGER	8/26/2020 DATE
WATERSHED DEPUTY DIRECTOR	DATE
WATERSHED DIRECTOR	DATE

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO. WP21-01
PROJ. NO. 82323

TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE

STAGE CONSTRUCTION TRAFFIC CONTROL PLAN – GENERAL NOTES



SHEET 18
OF 30
DRAWING SET NO.
WP-2-386

8		6' TEMPORARY CHAINLINK FENCE
9		10' SOUND BARRIER/ SECURITY FENCE
10		VEHICULAR TRAFFIC DIRECTION
10		TRAFFIC CONTROL SIGN
10		CHANNELIZER (10' SPACING)
10		TYPE III BARRICADE
10		TEMPORARY RAILING TYPE K
		WORK ZONE
10		PORTABLE CHANGEABLE MESSAGE SIGN
10		FLASHING ARROW BOARD
10		TEMPORARY STRIPING DETAIL NUMBER PER SSP A20
10		TEMPORARY BASIC 12" CROSSWALK MARKING PER SSP A24F
10		REMOVE MEDIAN AND CONSTRUCT TEMPORARY PAVEMENT
10		TEMPORARY LANE SEPARATOR — BOLTED-DOWN RUBBER CURB SYSTEM WITH DELINEATORS



SAVE DATE: 8/11/20 MUELLER, JOHN K: \PROJECTS\ZONE2\TSMAS(CHUMASH)CREEK\82323_TSMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\STAGE CONSTRUCTION AND TRAFFIC HANDLING - STAGE 3.DWG
VE DATE: 8/11/20 125936 K: \PROJECTS\ZONE2\TSMAS(CHUMASH)CREEK\82323_TSMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\CONSULTANT DRAWINGS\MNS\MNS DRAWINGS_2020-06-24\STAGE 1.DWG

D			
C			
B			
A			
△	REVISION	DESCRIPTION	APP. DATE



4580 E. Thousand Oaks Blvd.
Suite 101
Westlake Village, CA 91362
Phone: 805-648-4840
www.mnsengineers.com

MICHAEL IP
DESIGNED
SAM POTTS
DRAWN
ROBERT WILCOX
CHECKED

<i>Heidi R. Roman</i>	8/26//2020
PROJECT MANAGER	DATE
DEPUTY DIRECTOR	DATE
DISTRICT DIRECTOR	DATE

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

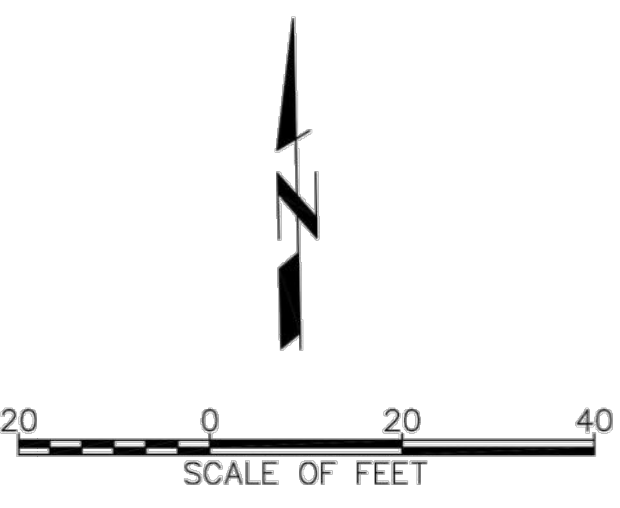
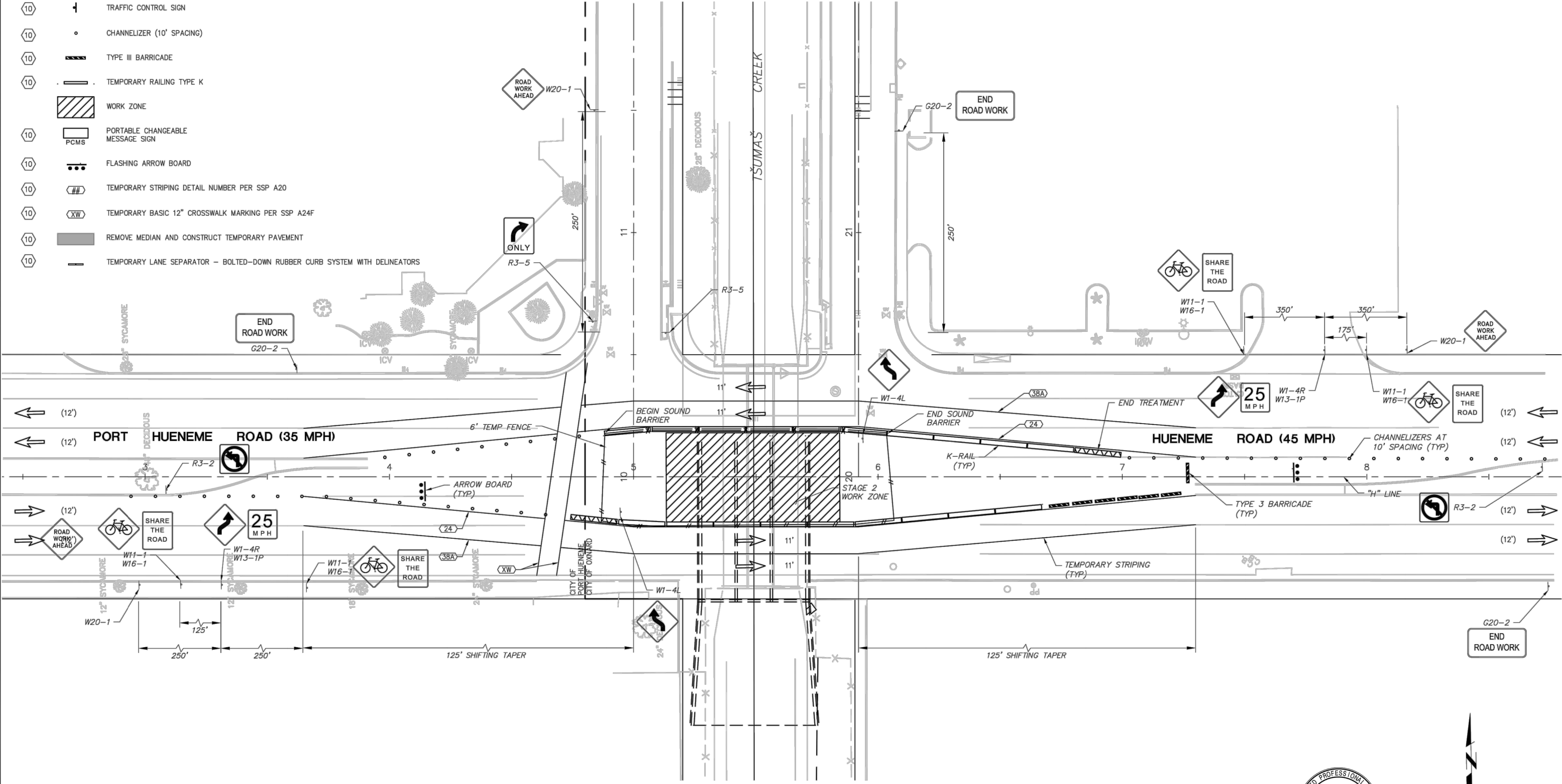
SPEC. NO.	WP21-01
PROJ. NO.	82323

TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE
 STAGE CONSTRUCTION TRAFFIC CONTROL PLAN - STAGE 1

SHEET 19
OF 30
DRAWING-SET NO.
WP-2-386

LEGEND

- 8 6' TEMPORARY CHAINLINK FENCE
- 9 10' SOUND BARRIER/ SECURITY FENCE
- 10 VEHICULAR TRAFFIC DIRECTION
- 10 TRAFFIC CONTROL SIGN
- 10 CHANNELIZER (10' SPACING)
- 10 TYPE III BARRICADE
- 10 TEMPORARY RAILING TYPE K
- WORK ZONE
- 10 PORTABLE CHANGEABLE MESSAGE SIGN
- 10 FLASHING ARROW BOARD
- 10 TEMPORARY STRIPING DETAIL NUMBER PER SSP A20
- 10 TEMPORARY BASIC 12" CROSSWALK MARKING PER SSP A24F
- 10 REMOVE MEDIAN AND CONSTRUCT TEMPORARY PAVEMENT
- 10 TEMPORARY LANE SEPARATOR - BOLTED-DOWN RUBBER CURB SYSTEM WITH DELINEATORS



SAVE DATE: 8/11/20 - MUELLER, JOHN K - PROJECTS\ZONE2\TSUMAS\CHUMASH\CREEK\82323-TSUMAS-CREEK-HUENEME-RO-JANE-DR\DESIGN\DESIGNDRAWINGS\FINAL PLANS\STAGE 2\STAGE 2.DWG

REVISION	DESCRIPTION	APP.	DATE
D			
C			
B			
A			

ENGINEERING | SURVEYING
CONSTRUCTION MANAGEMENT

4580 E. Thousand Oaks Blvd.
Suite 101
Westlake Village, CA 91362
Phone: 805-648-4840
www.mnsengineers.com

MICHAEL IP DESIGNED	8/26/2020 DATE
SAM POTTS DRAWN	
ROBERT WILCOX CHECKED	

PROJECT MANAGER	
DEPUTY DIRECTOR	
DISTRICT DIRECTOR	

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO.	WP21-01
PROJ. NO.	82323

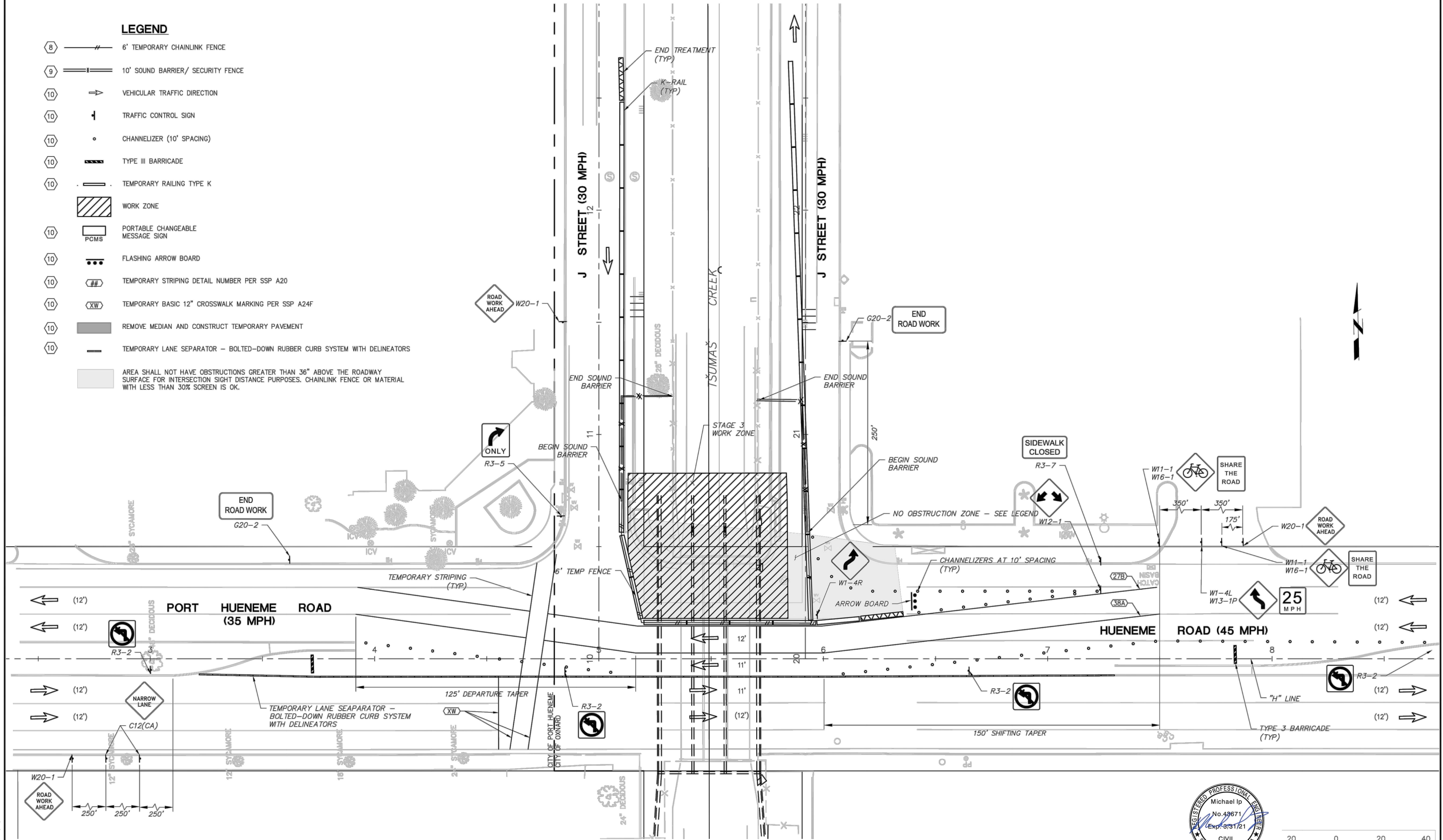
TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE
STAGE CONSTRUCTION TRAFFIC CONTROL PLAN - STAGE 2

SHEET	20
OF	30
DRAWING SET NO.	WP-2-386

LEGEND

- 8 6' TEMPORARY CHAINLINK FENCE
- 9 10' SOUND BARRIER/ SECURITY FENCE
- 10 VEHICULAR TRAFFIC DIRECTION
- 10 TRAFFIC CONTROL SIGN
- 10 CHANNELIZER (10' SPACING)
- 10 TYPE III BARRICADE
- 10 TEMPORARY RAILING TYPE K
- WORK ZONE
- 10 PORTABLE CHANGEABLE MESSAGE SIGN PCMS
- 10 FLASHING ARROW BOARD
- 10 TEMPORARY STRIPING DETAIL NUMBER PER SSP A20
- 10 TEMPORARY BASIC 12" CROSSWALK MARKING PER SSP A24F
- 10 REMOVE MEDIAN AND CONSTRUCT TEMPORARY PAVEMENT
- 10 TEMPORARY LANE SEPARATOR - BOLTED-DOWN RUBBER CURB SYSTEM WITH DELINEATORS

AREA SHALL NOT HAVE OBSTRUCTIONS GREATER THAN 36" ABOVE THE ROADWAY SURFACE FOR INTERSECTION SIGHT DISTANCE PURPOSES. CHAINLINK FENCE OR MATERIAL WITH LESS THAN 30% SCREEN IS OK.



PLT DATE: 8/11/20

SAVE DATE: 8/11/20 MUELLER, JOHN K: \PROJECTS\ZONE2\TšUMAŠ\CHUMASH\CREEK\82323_TšUMAŠ_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\STAGE CONSTRUCTION AND TRAFFIC HANDLING - STAGE 3.DWG
SAVE DATE: 8/11/20 125936 K: \PROJECTS\ZONE2\TšUMAŠ\CHUMASH\CREEK\82323_TšUMAŠ_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\CONSULTANT DRAWINGS\MNS\MNS DRAWINGS_2020-06-24\STAGE 3.DWG

REVISION	DESCRIPTION	APP.	DATE
D			
C			
B			
A			



4580 E. Thousand Oaks Blvd.
Suite 101
Westlake Village, CA 91362
Phone: 805-648-4840
www.mnsengineers.com

MICHAEL IP
DESIGNED
SAM POTTS
DRAWN
ROBERT WILCOX
CHECKED

DEPUTY DIRECTOR
DISTRICT DIRECTOR

8/26/2020
DATE

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO.
WP21-01
PROJ. NO.
82323

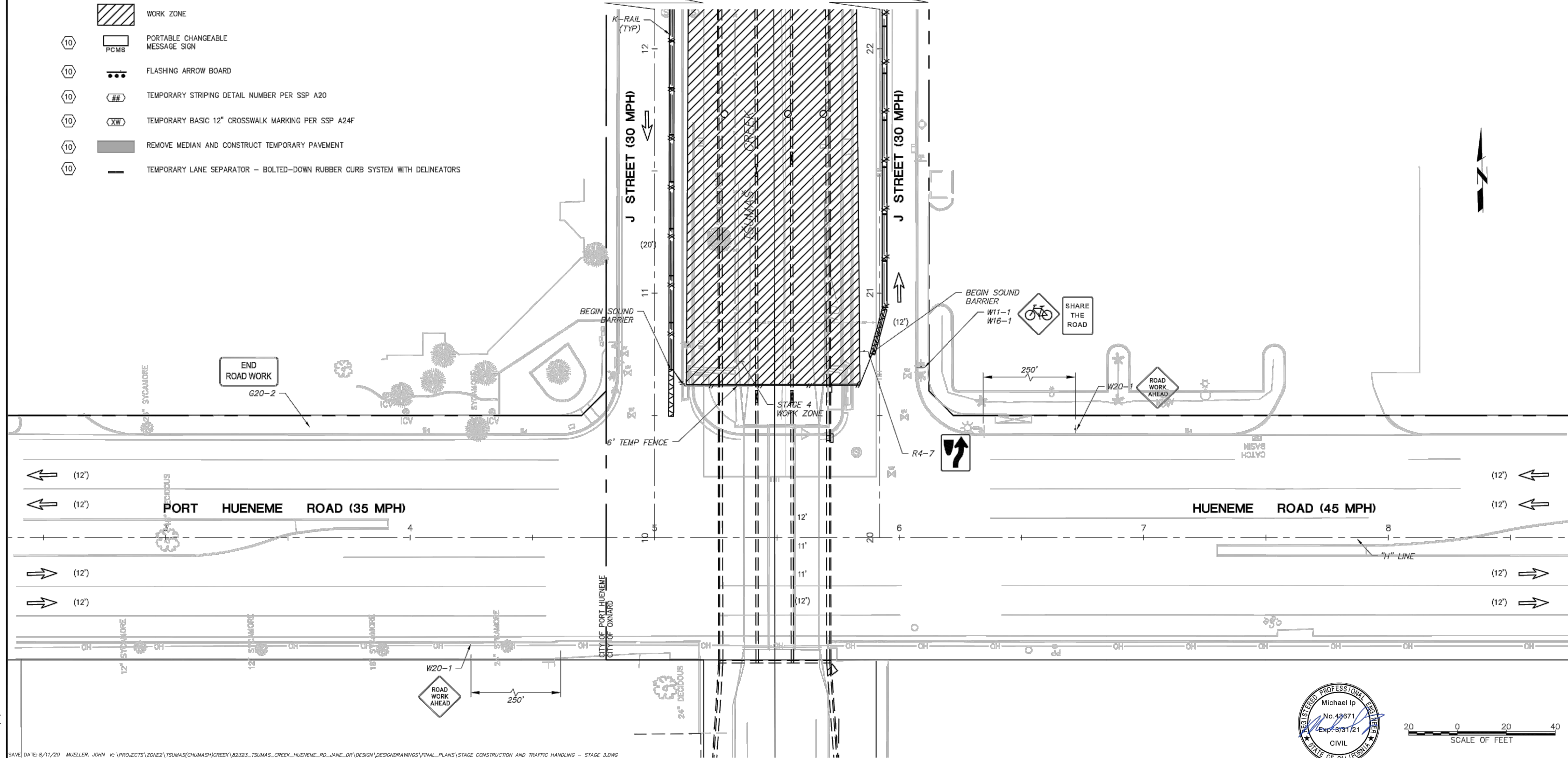
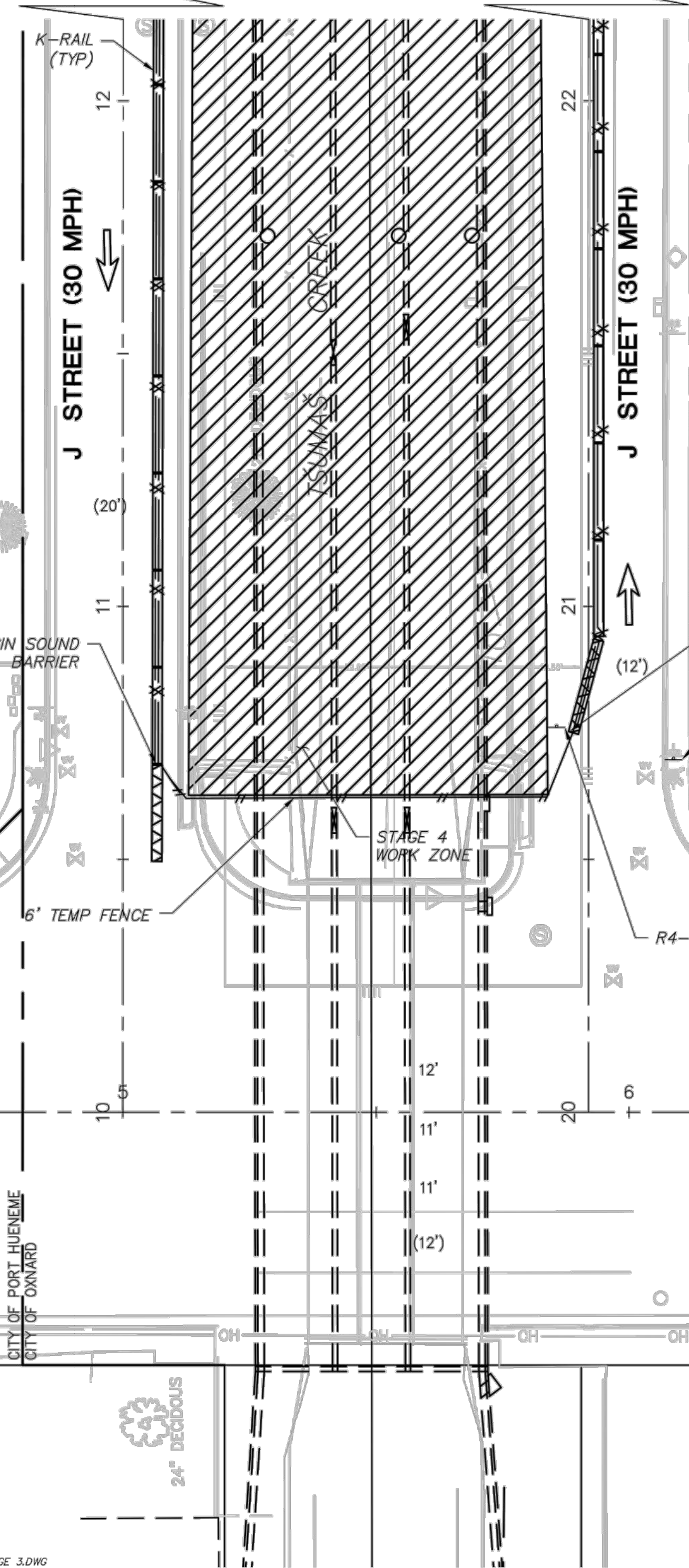
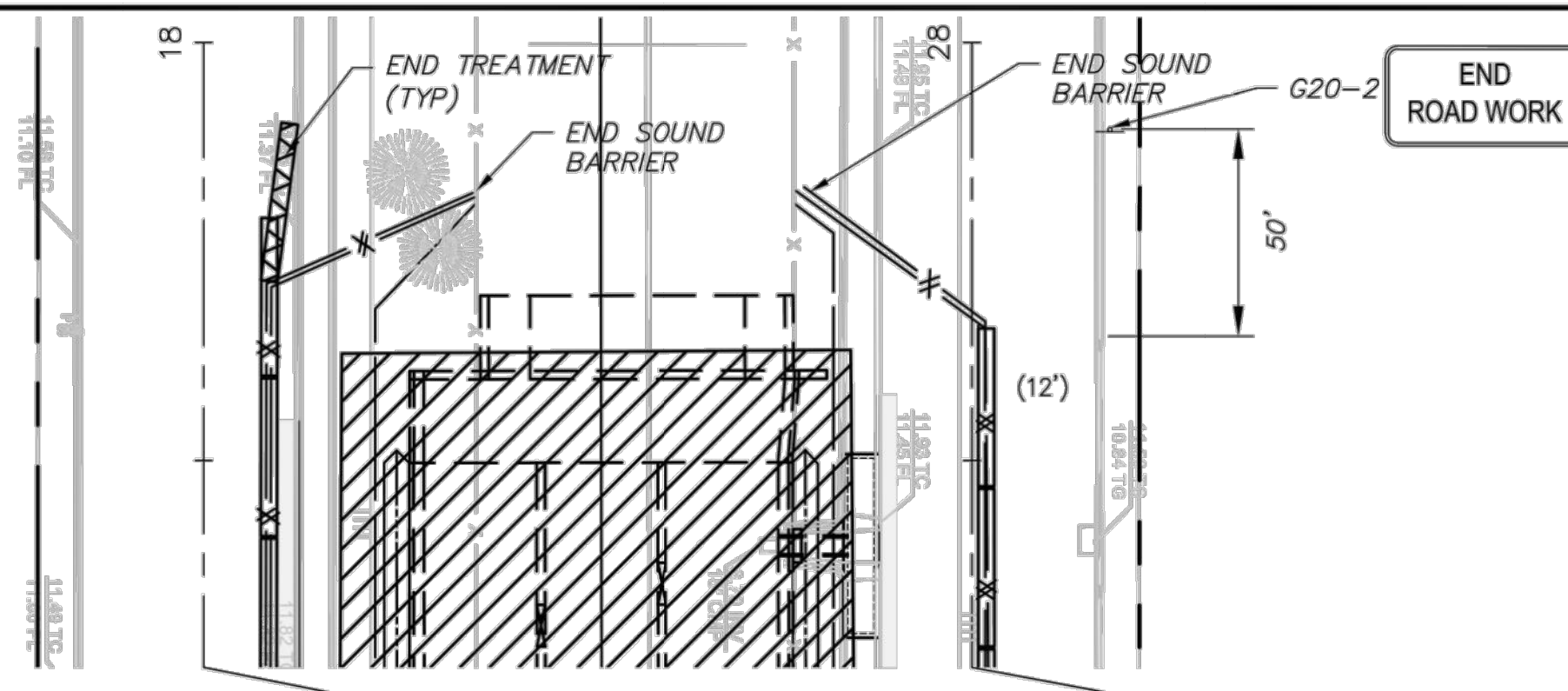
TšUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE
STAGE CONSTRUCTION TRAFFIC CONTROL PLAN - STAGE 3

SHEET 21
OF 30
DRAWING SET NO.
WP-2-386



20 0 20 40
SCALE OF FEET

8		6' TEMPORARY CHAINLINK FENCE
9		10' SOUND BARRIER/ SECURITY FENCE
10		VEHICULAR TRAFFIC DIRECTION
10		TRAFFIC CONTROL SIGN
10		CHANNELIZER (10' SPACING)
10		TYPE III BARRICADE
10		TEMPORARY RAILING TYPE K
		WORK ZONE
10		PORTABLE CHANGEABLE MESSAGE SIGN
10		FLASHING ARROW BOARD
10		TEMPORARY STRIPING DETAIL NUMBER PER SSP A20
10		TEMPORARY BASIC 12" CROSSWALK MARKING PER SSP A24F
10		REMOVE MEDIAN AND CONSTRUCT TEMPORARY PAVEMENT
10		TEMPORARY LANE SEPARATOR - BOLTED-DOWN RUBBER CURB SYSTEM WITH DELINEATORS



PLOT DATE: 8/11/20

SAVE DATE: 8/11/20 MUELLER, JOHN K: \PROJECTS\ZONE2\TSMAS\CHUMASH\CREEK\82323_TSMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\STAGE CONSTRUCTION AND TRAFFIC HANDLING - STAGE 3.DWG
SAVE DATE: 8/11/20 125936 K: \PROJECTS\ZONE2\TSMAS\CHUMASH\CREEK\82323_TSMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\CONSULTANT DRAWINGS\MNS\MNS DRAWINGS_2020-06-24\STAGE 4.DWG

D			
C			
B			
A			
△	REVISION	DESCRIPTION	APP. DATE



4580 E. Thousand Oaks Blvd.
Suite 101
Westlake Village, CA 91362
Phone: 805-648-4840
www.mnsengineers.com

MICHAEL IP
DESIGNED

SAM POTTS
DRAWN

ROBERT WILCOX
CHECKED

Hirk Roman
PROJECT MANAGER

DEPUTY DIRECTOR

DISTRICT DIRECTOR

8/26//2020

DATE _____

DATE _____

1000

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

SPEC. NO.
WP21-01

PROJ. NO.

000000

**TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE**

STAGE CONSTRUCTION TRAFFIC CONTROL PLAN – STAGE 4

SHEET 22

30

OF 50

DRAWING SET |



LEGEND

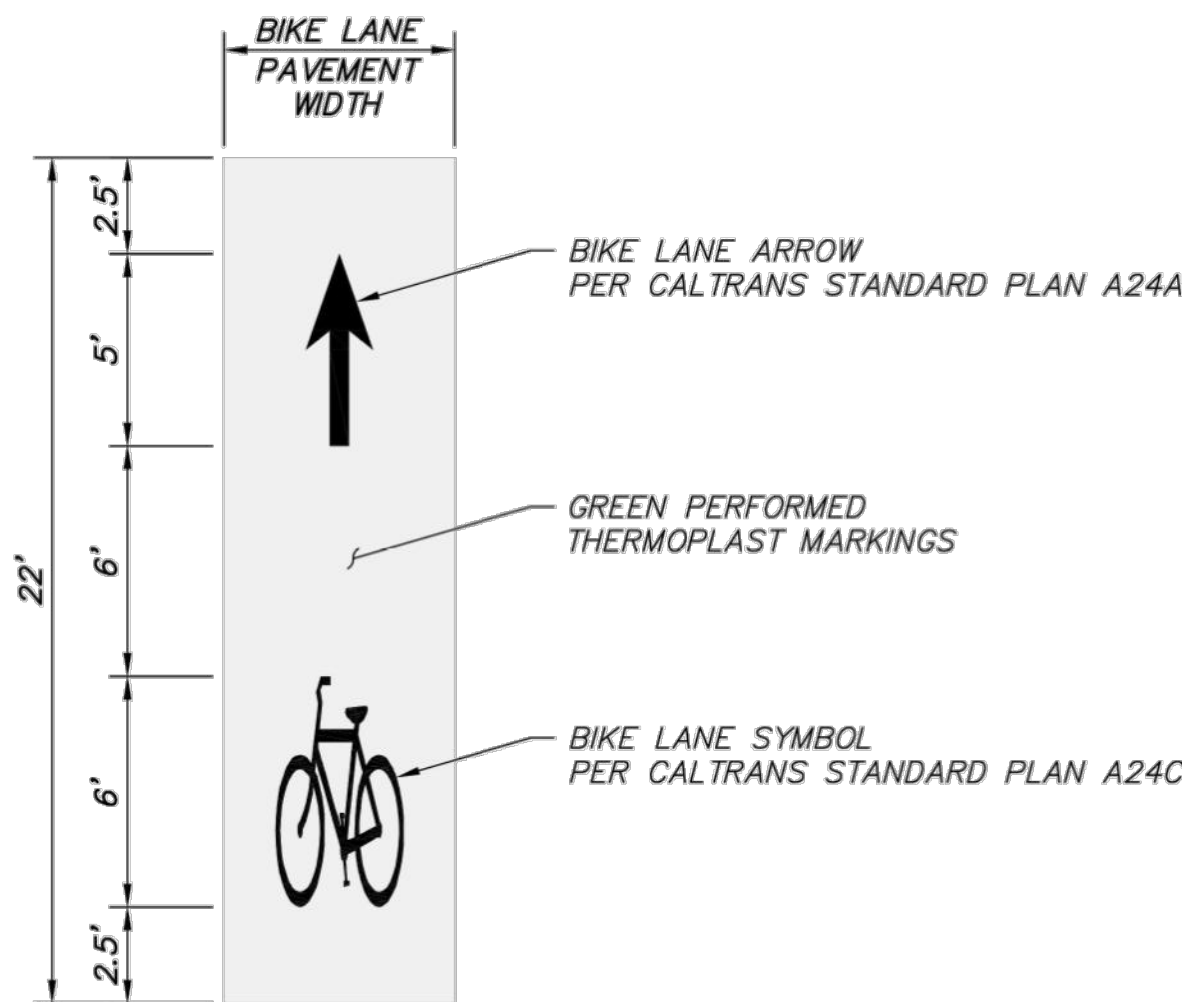
- XX STRIPING DETAIL NUMBER IN CALTRANS STANDARD PLAN A20A THROUGH A20F
- LL PAVEMENT MARKING, 12" WIDE WHITE LIMIT LINE PER CALTRANS STANDARD PLAN A24F
- P ROADSIDE SIGN PER COSP 203 AND COSP 204
- GREEN BIKE LANE MARKING PER DETAIL HEREON
- SHARED ROADWAY BICYCLE MARKING (SHARROW) PER CALTRANS STANDARD PLAN A24C
- TYPE I 10' ARROW PER CALTRANS STANDARD PLAN A24A. DIRECTION SHOWN ON PLAN
- ↪ TYPE IV ARROW PER CALTRANS STANDARD PLAN A24A. DIRECTION SHOWN ON PLAN
- I CHANGE OF STRIPING DETAIL

SIGNAGE CONSTRUCTION NOTES

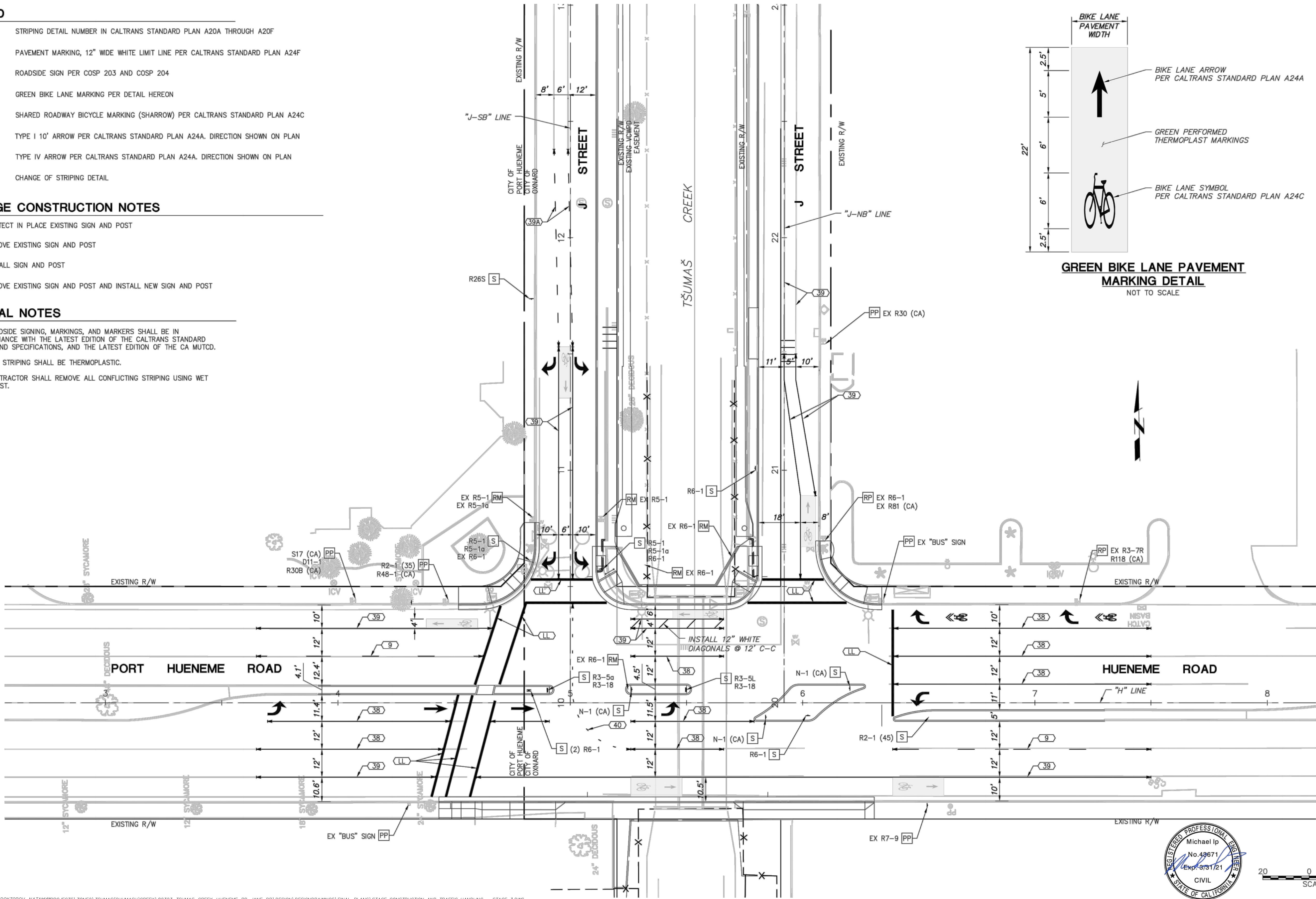
- PP PROTECT IN PLACE EXISTING SIGN AND POST
- RM REMOVE EXISTING SIGN AND POST
- S INSTALL SIGN AND POST
- RP REMOVE EXISTING SIGN AND POST AND INSTALL NEW SIGN AND POST

GENERAL NOTES

- ALL ROADSIDE SIGNING, MARKINGS, AND MARKERS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND THE LATEST EDITION OF THE CA MUTCD.
- ALL NEW STRIPING SHALL BE THERMOPLASTIC.
- THE CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING USING WET SANDBLAST.



GREEN BIKE LANE PAVEMENT MARKING DETAIL
NOT TO SCALE



SAVE DATE: 8/24/20 DOKTOROV, NATALIY@PROJECTS\ZONE2\TŠUMAS\CHUMASH\CREEK\82323_TŠUMAS_CREEK_HUENEME_RD_JANE_DRIVE\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\STAGE CONSTRUCTION AND TRAFFIC HANDLING - STAGE 3.DWG

REVISION	DESCRIPTION	APP.	DATE
D			
C			
B			
A			



4580 E. Thousand Oaks Blvd.
Suite 101
Westlake Village, CA 91362
Phone: 805-648-4840
www.mnsengineers.com

MICHAEL IP
DESIGNED
SAM POTTS
DRAWN
ROBERT WILCOX
CHECKED

8/26/2020
DATE
PROJECT MANAGER
DEPUTY DIRECTOR
DIRECTOR

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

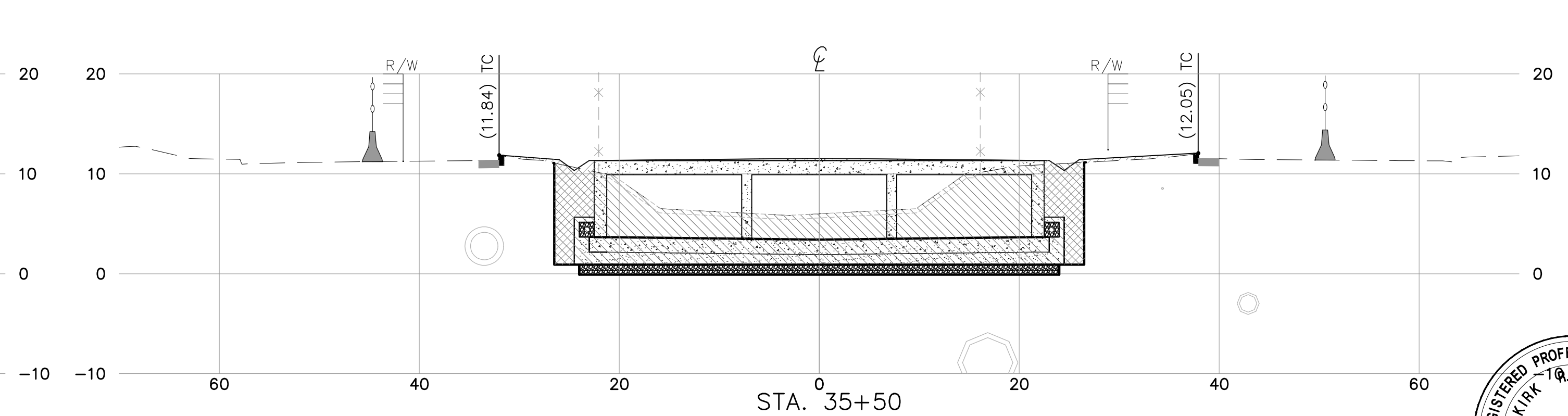
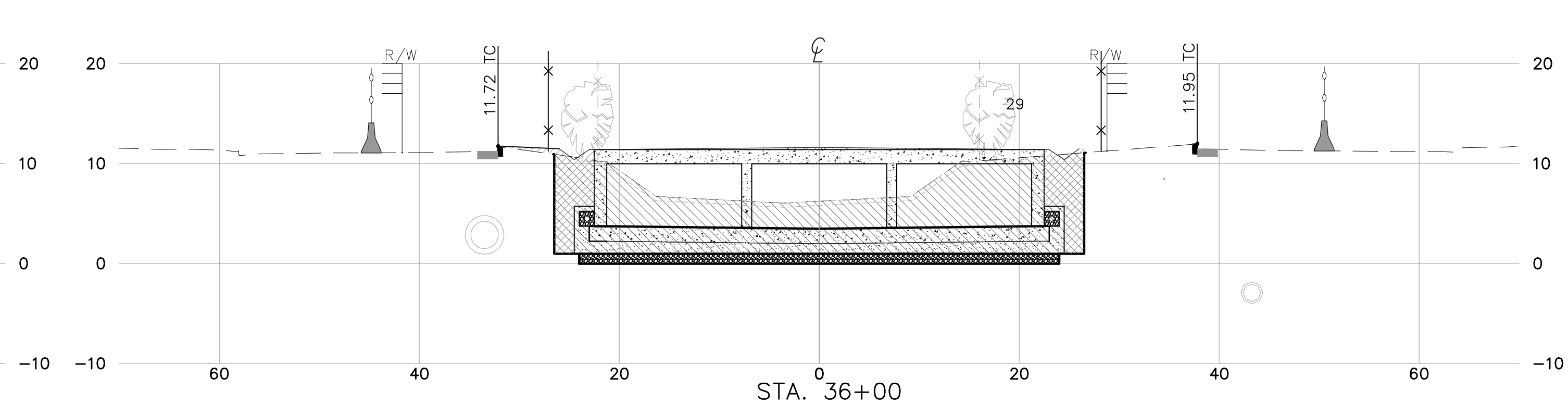
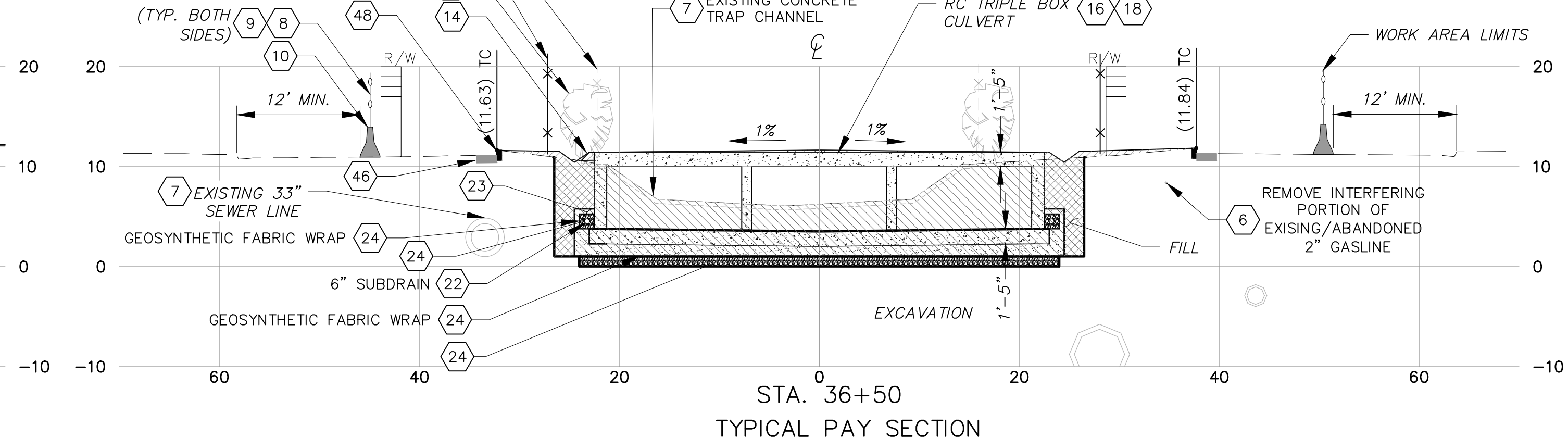
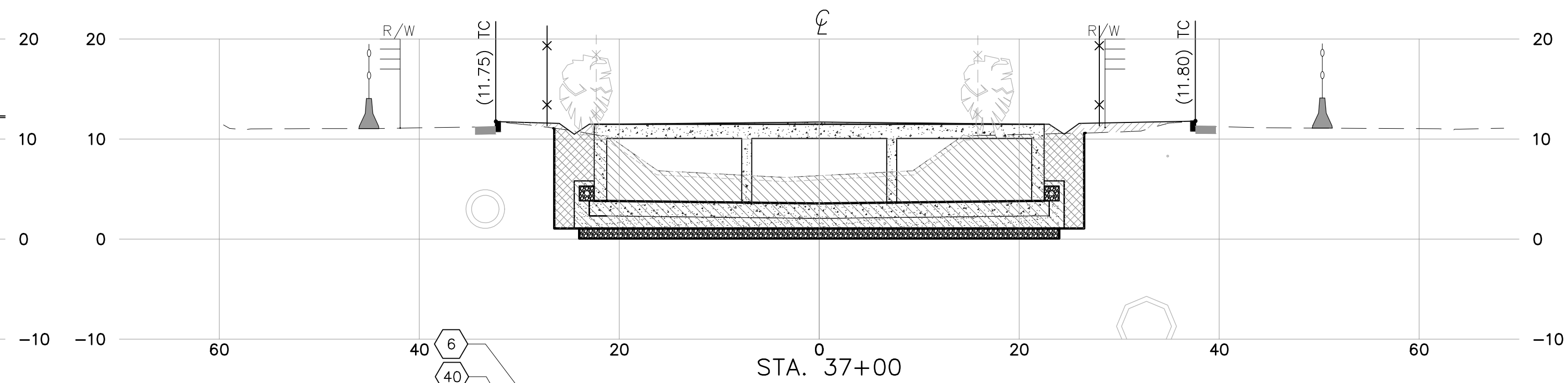
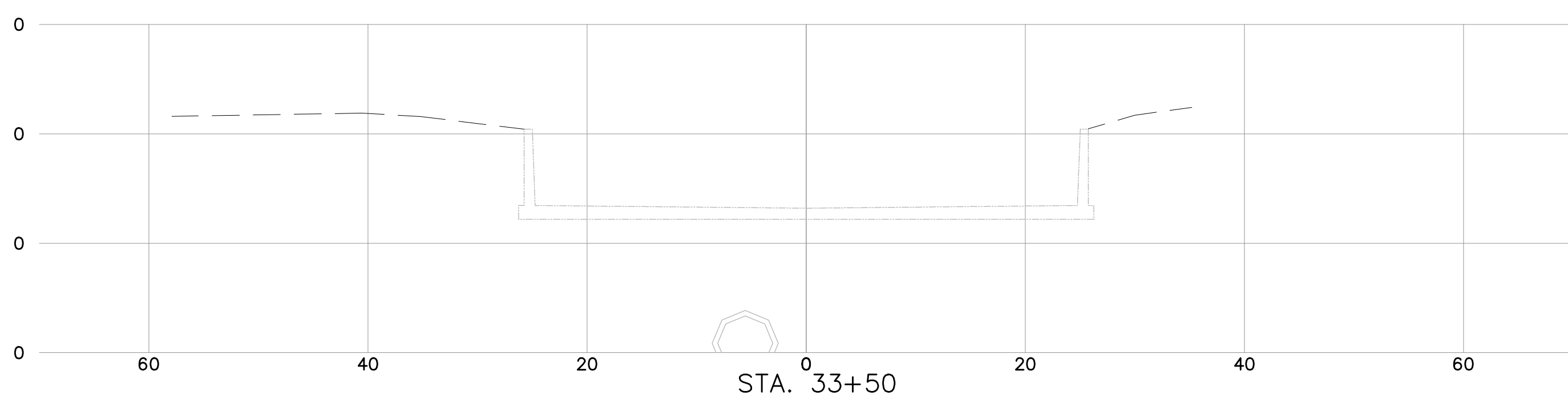
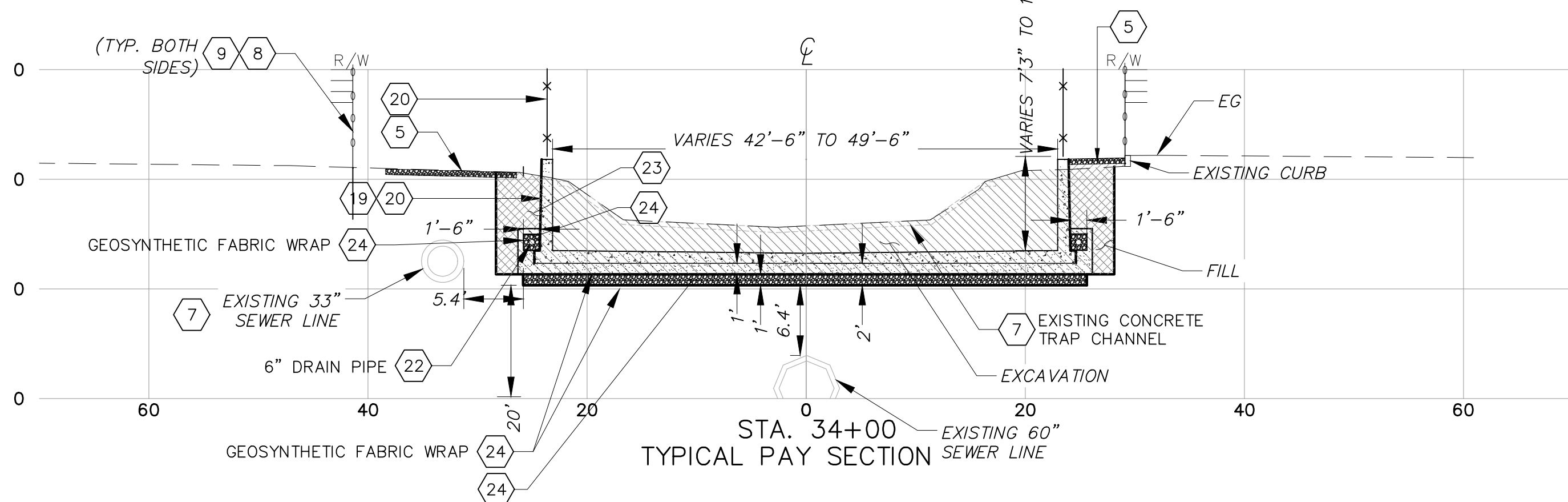
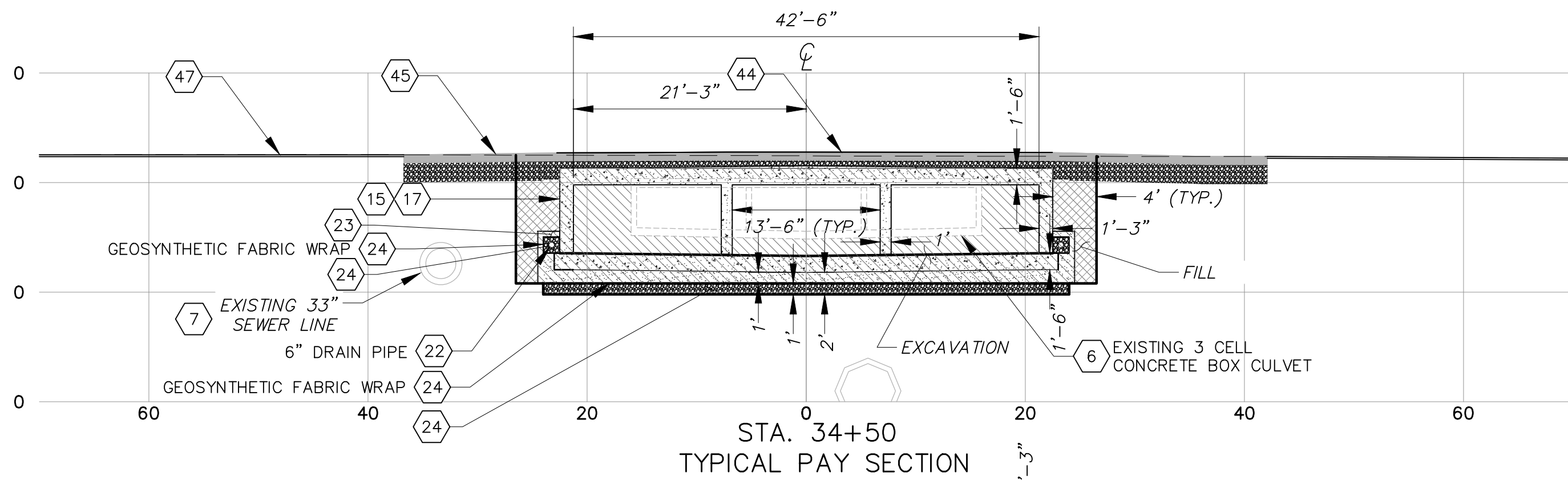
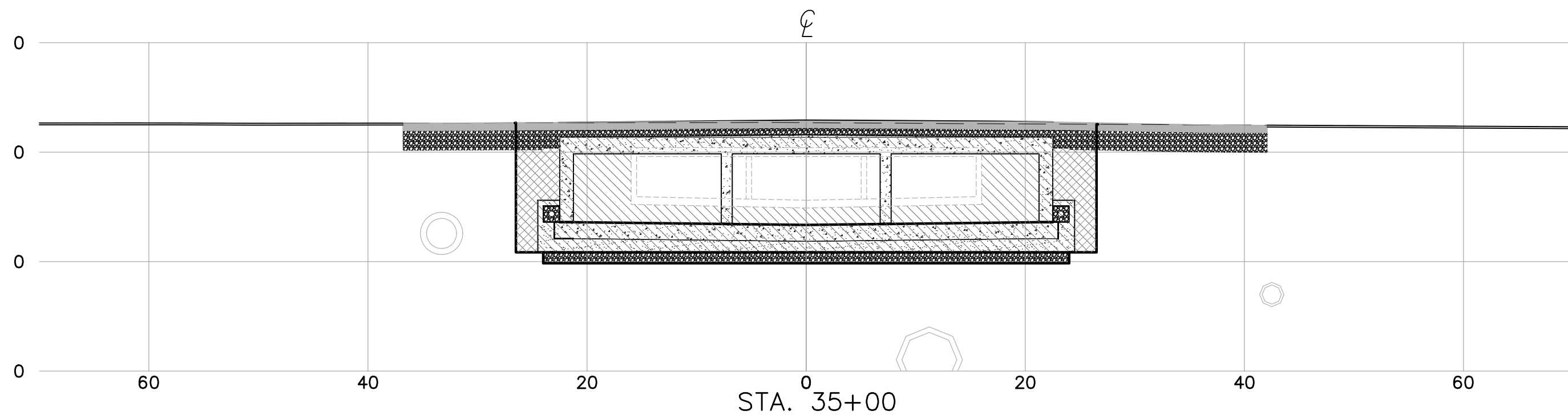
SPEC. NO.
WP21-01
PROJ. NO.
82323

TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE
SIGNING AND STRIPING PLAN

SHEET 23
OF 30
DRAWING SET NO.
WP-2-386

NOTES:

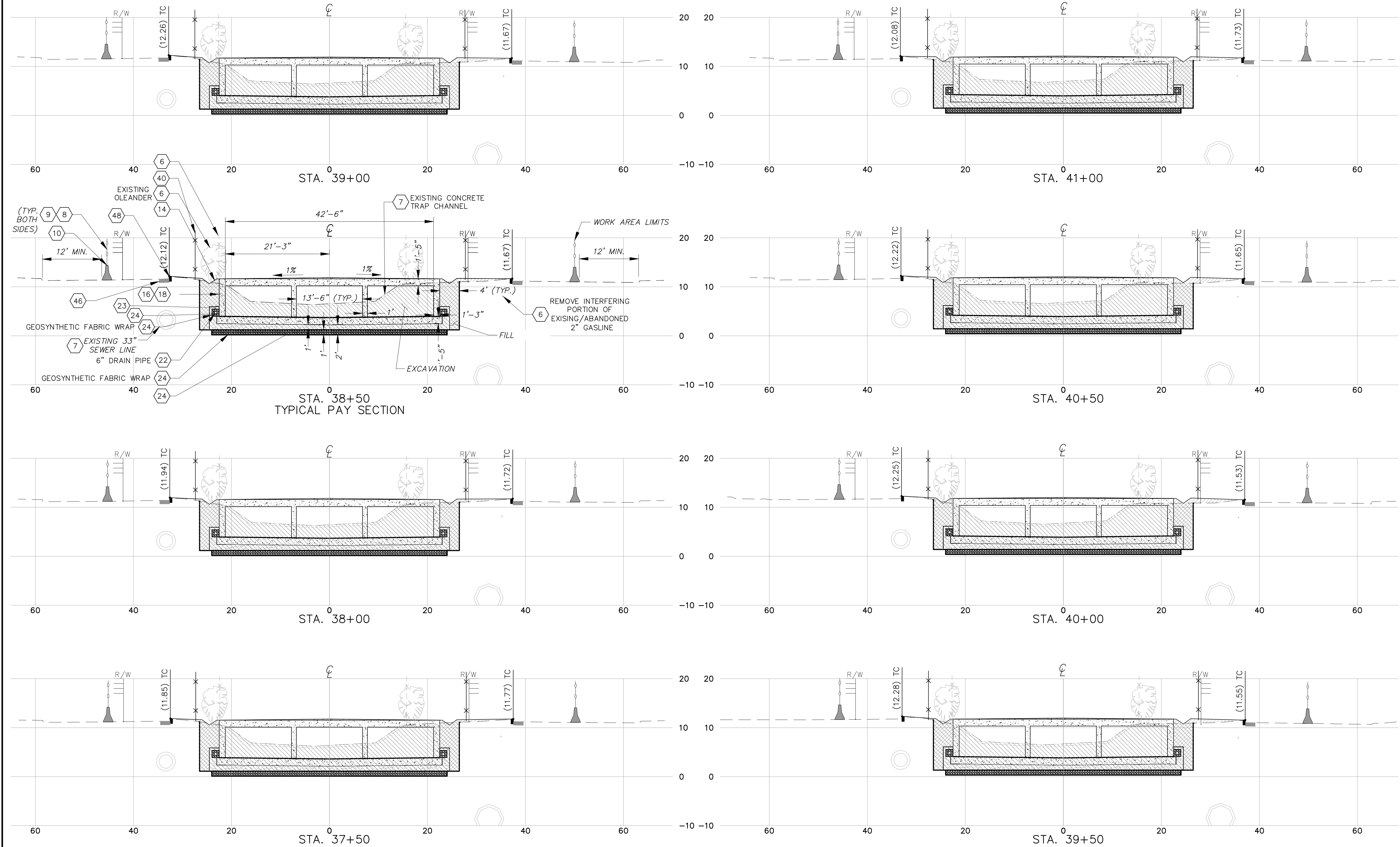
1. ALL SECTION ARE ORIENTED
LOOKING DOWNSTREAM.



SAVE DATE: 9/2/20 MUELLER JOHN K:\PROJECTS\ZONE21\TŠUMAŠ\CHUMASH\CREEK\82323 - TŠUMAŠ CREEK HUENEME RD - JANE DRIVE\DESIGN\DRAWINGS\FINAL PLANS\CROSS SECTIONS STA 37+50 TO 41+00.DWG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----	--

NOTES:

1. ALL SECTION ARE ORIENTED
LOOKING DOWNSTREAM.



PLOT DATE: 9/17/20

SAVE DATE: 9/2/20 MUELLER, JOHN K:\PROJECTS\ZONE2\TUMAS\CHUMASH\CREEK\92323_TUMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL PLANS\CROSS SECTIONS STA 37+50 TO 41+00.DWG

REVISION	DESCRIPTION	APP.	DATE
D			
C			
B			
A			
△			

J MUELLER
DESIGNED
JM / ND
DRAWN
K NORMAN
CHECKED

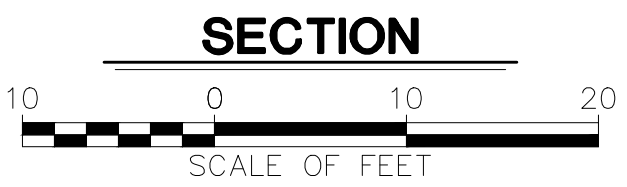
9/24/2020
DATE
9/28/2020
DATE
9/29/2020
DATE
WATERSHED DIRECTOR

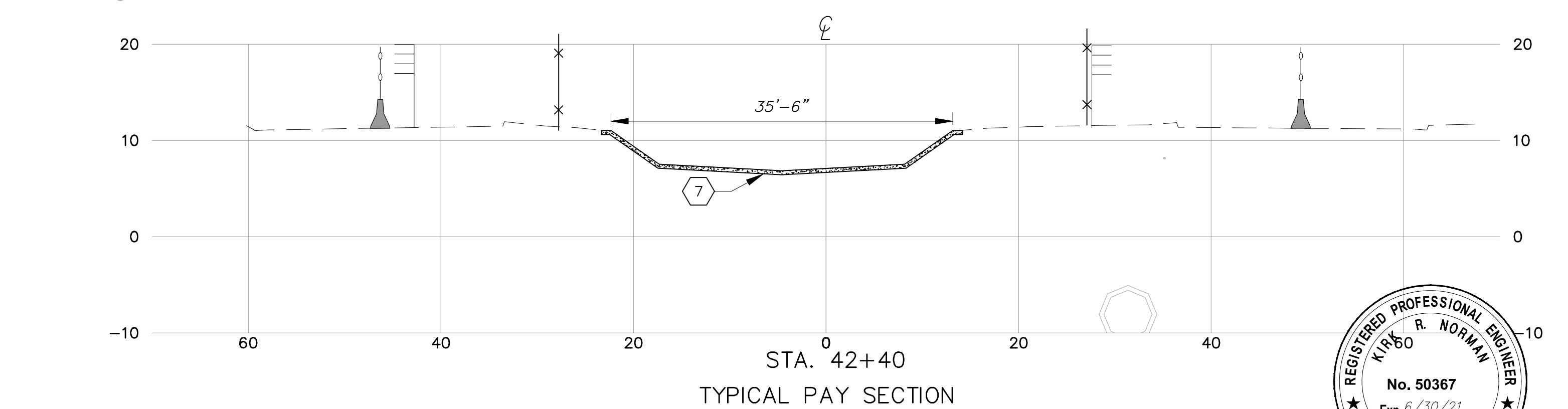
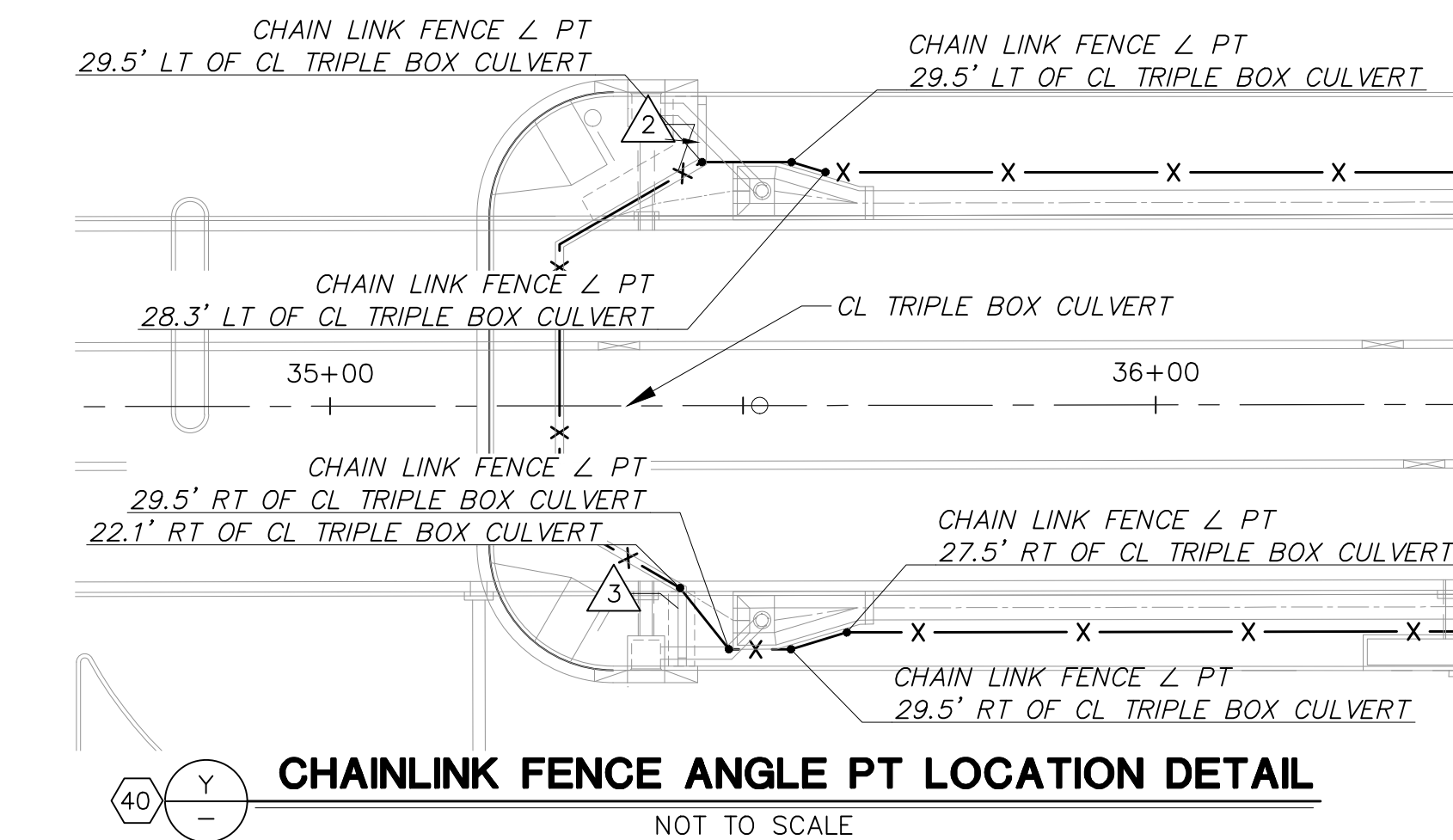
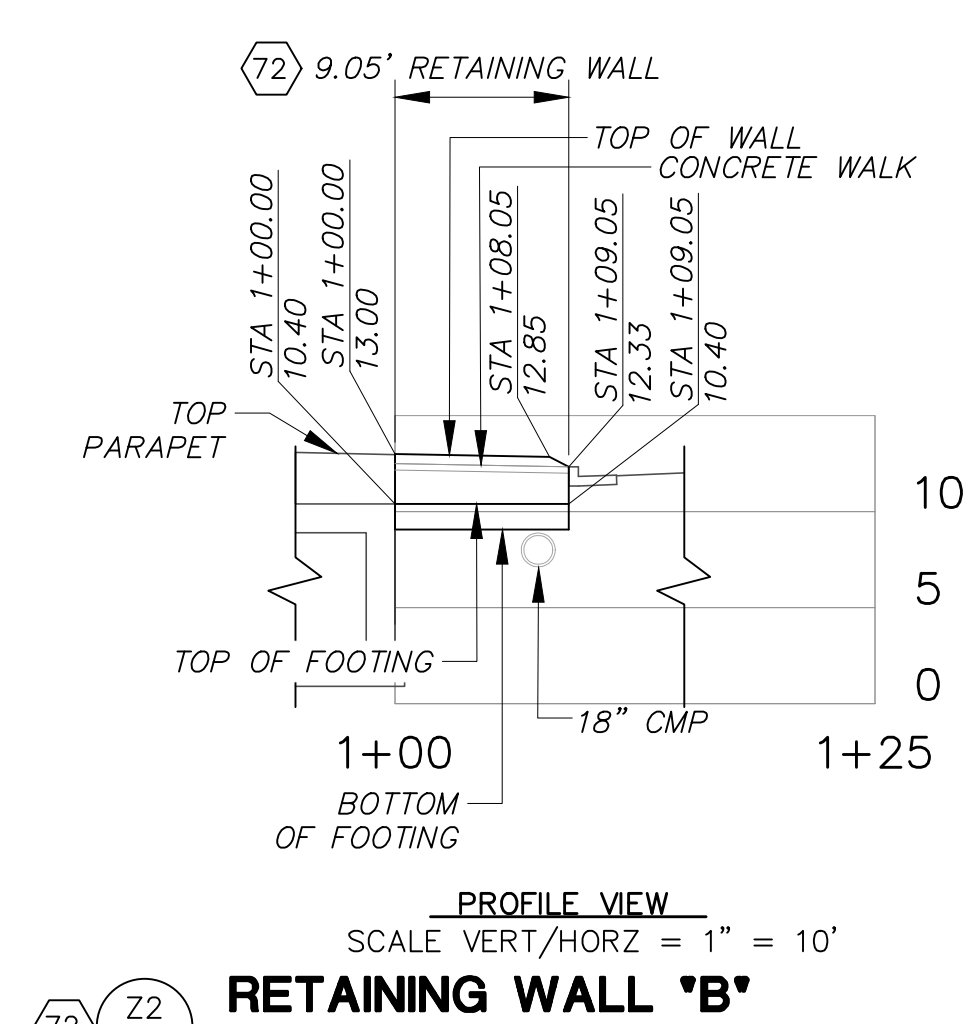
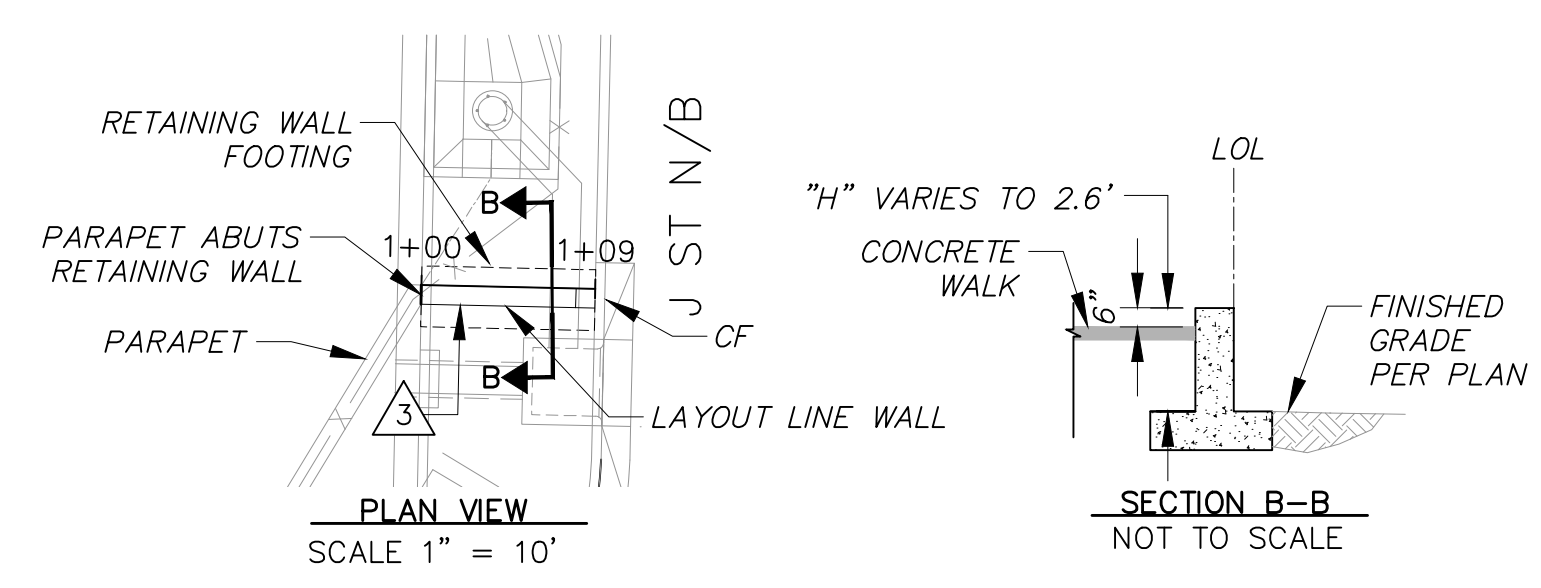
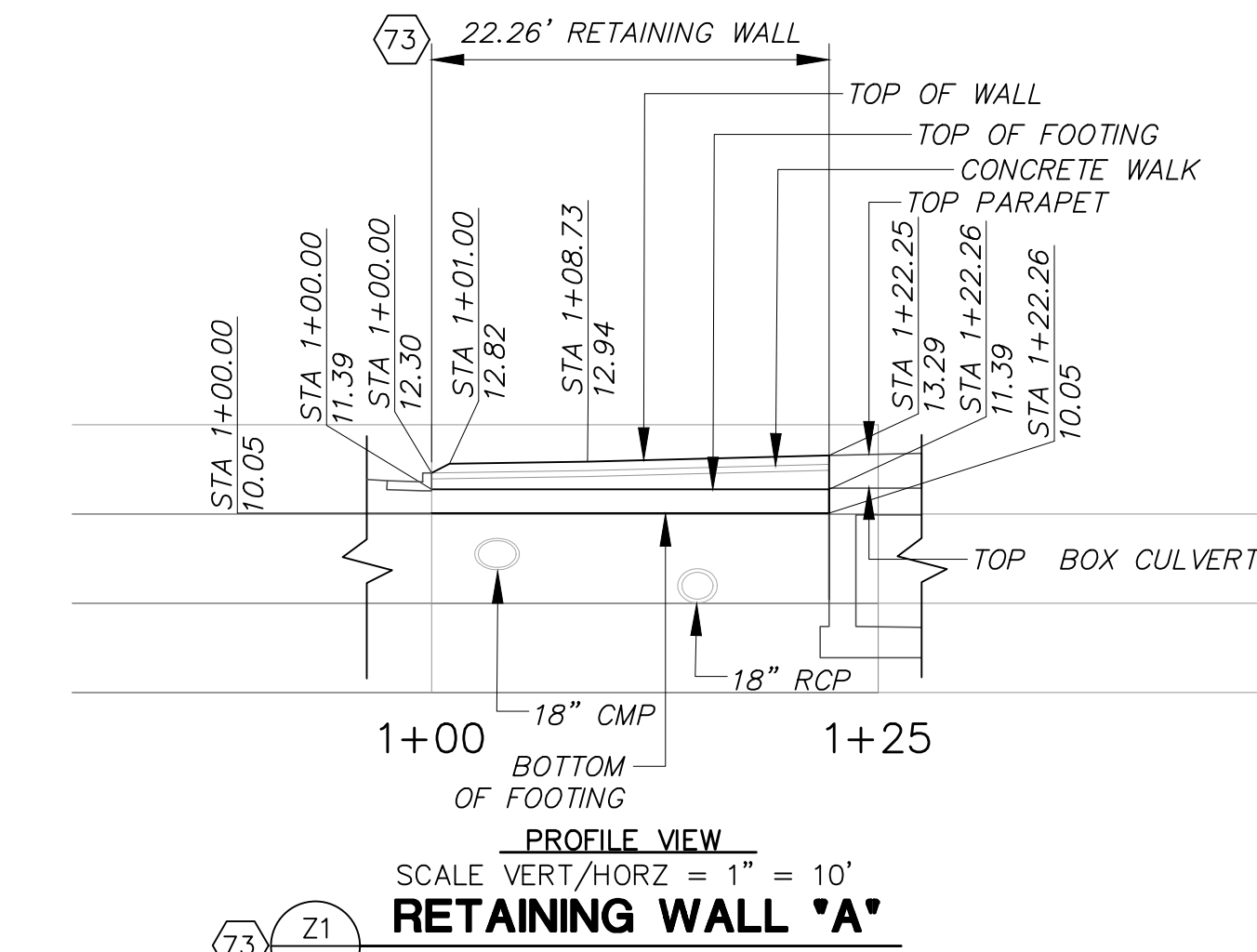
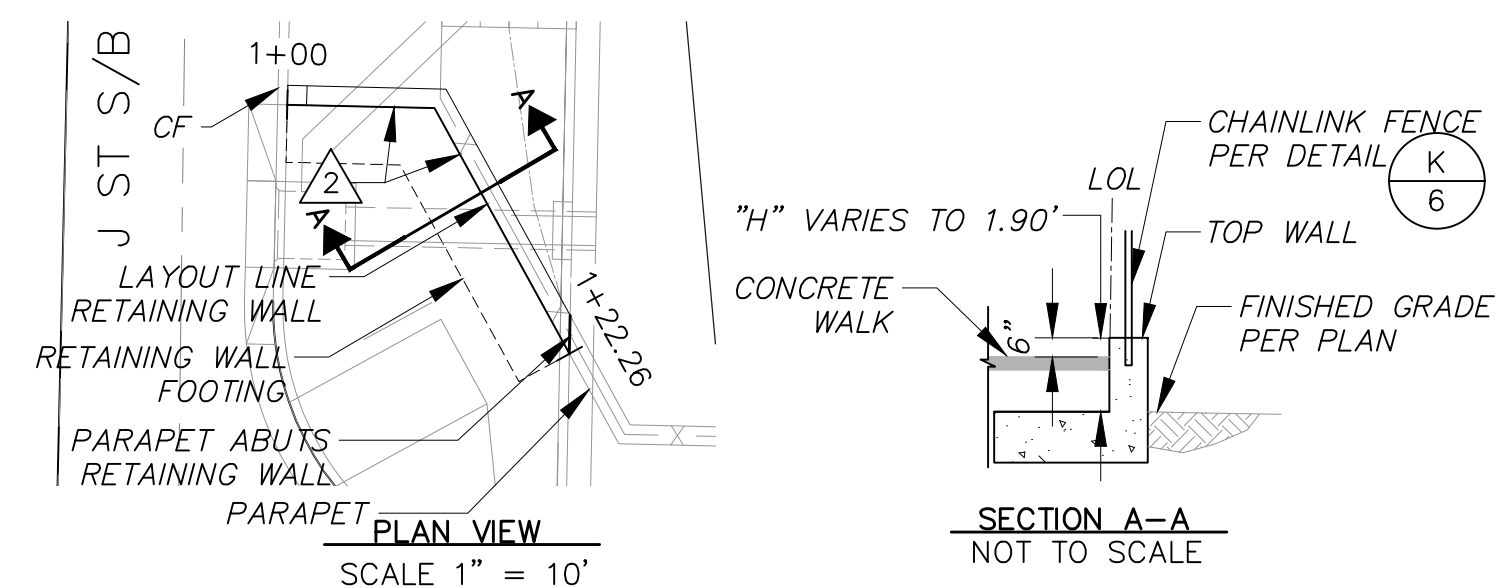
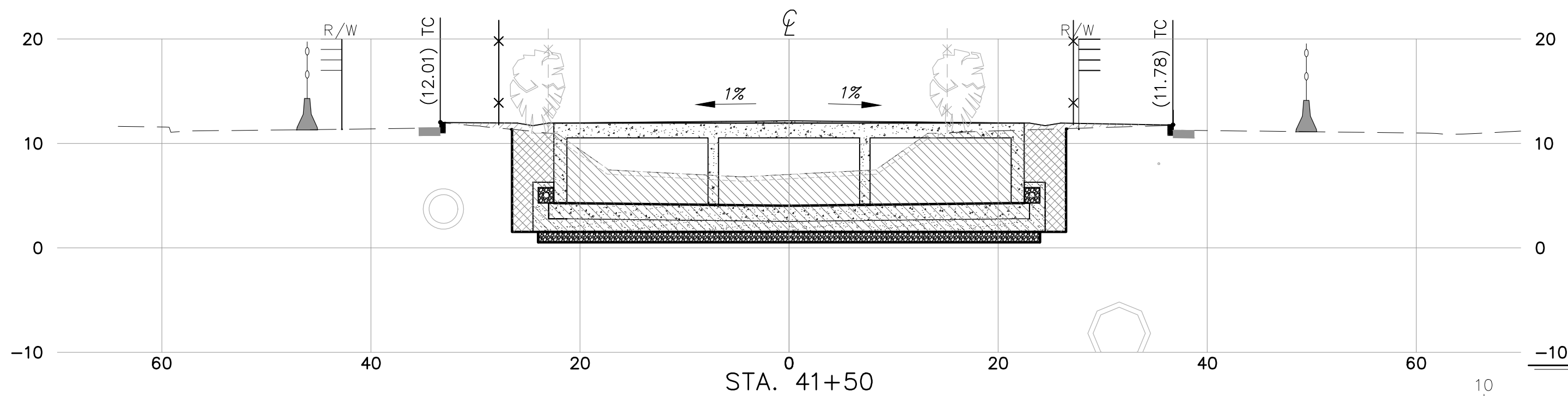
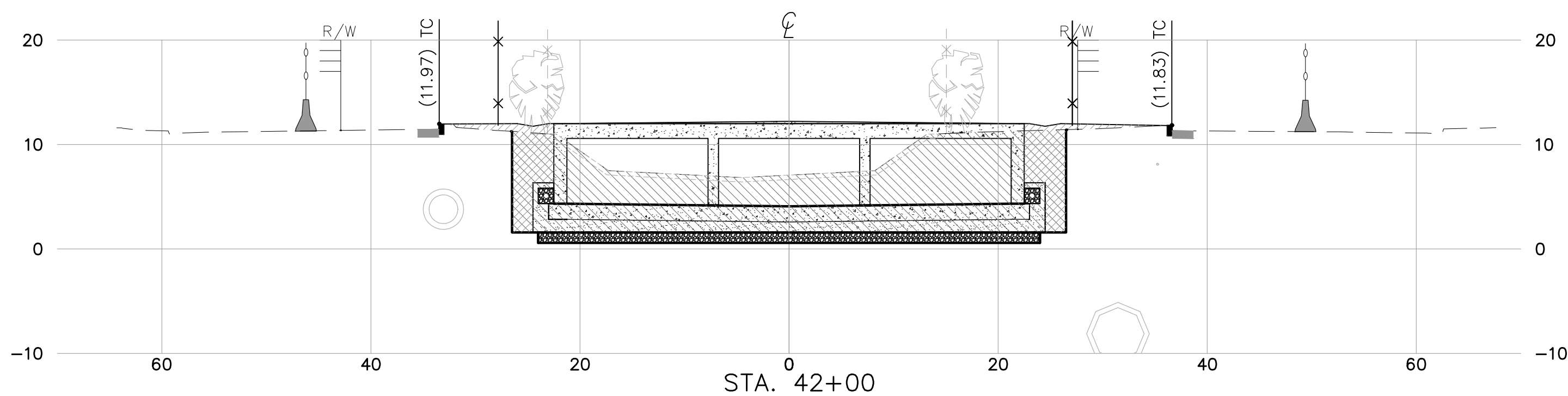
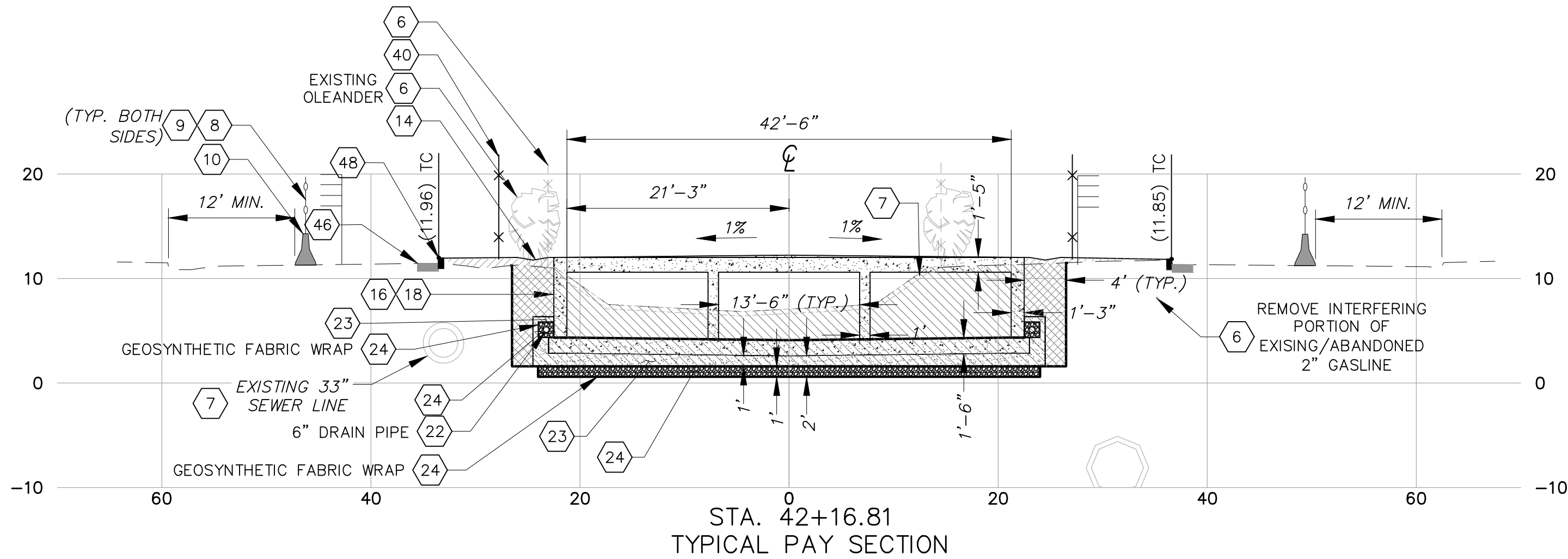
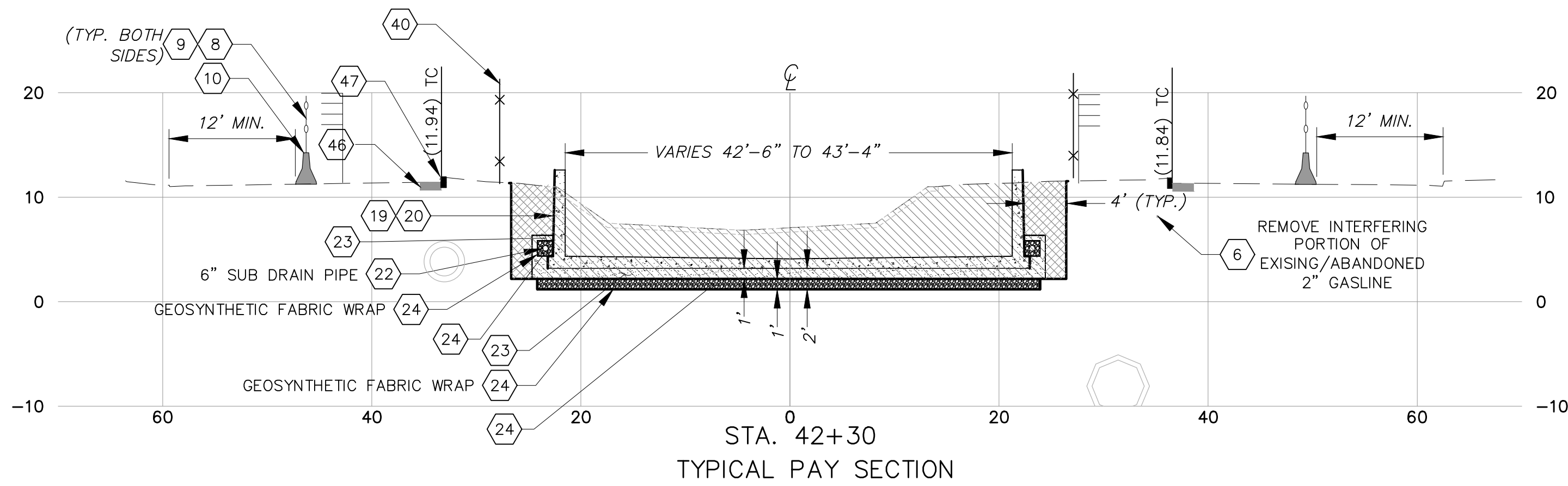
VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO.
WP21-01
PROJ. NO.
82323

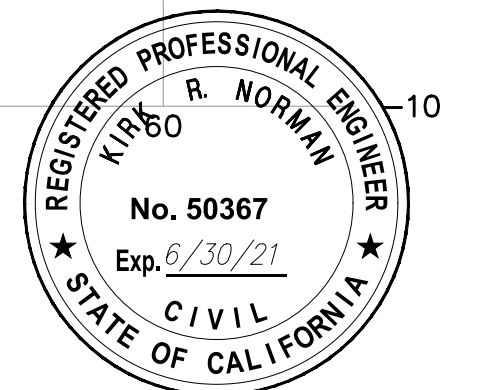
TŪMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE
CROSS SECTIONS STA 37+50 TO 41+00

SHEET 25
OF 30
DRAWING SET NO.
WP-2-386





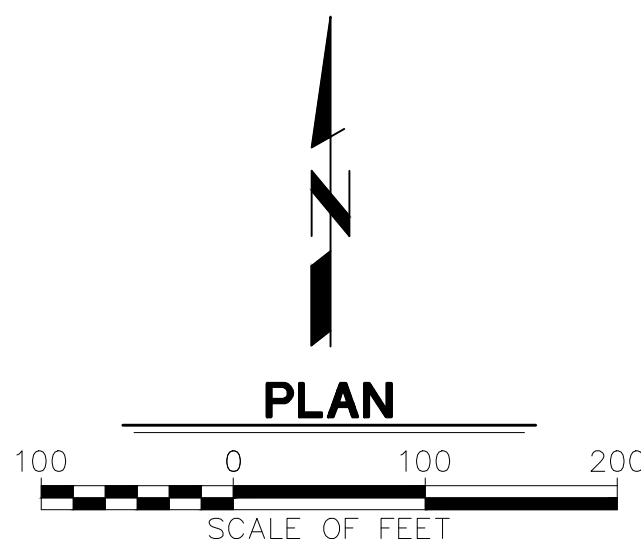
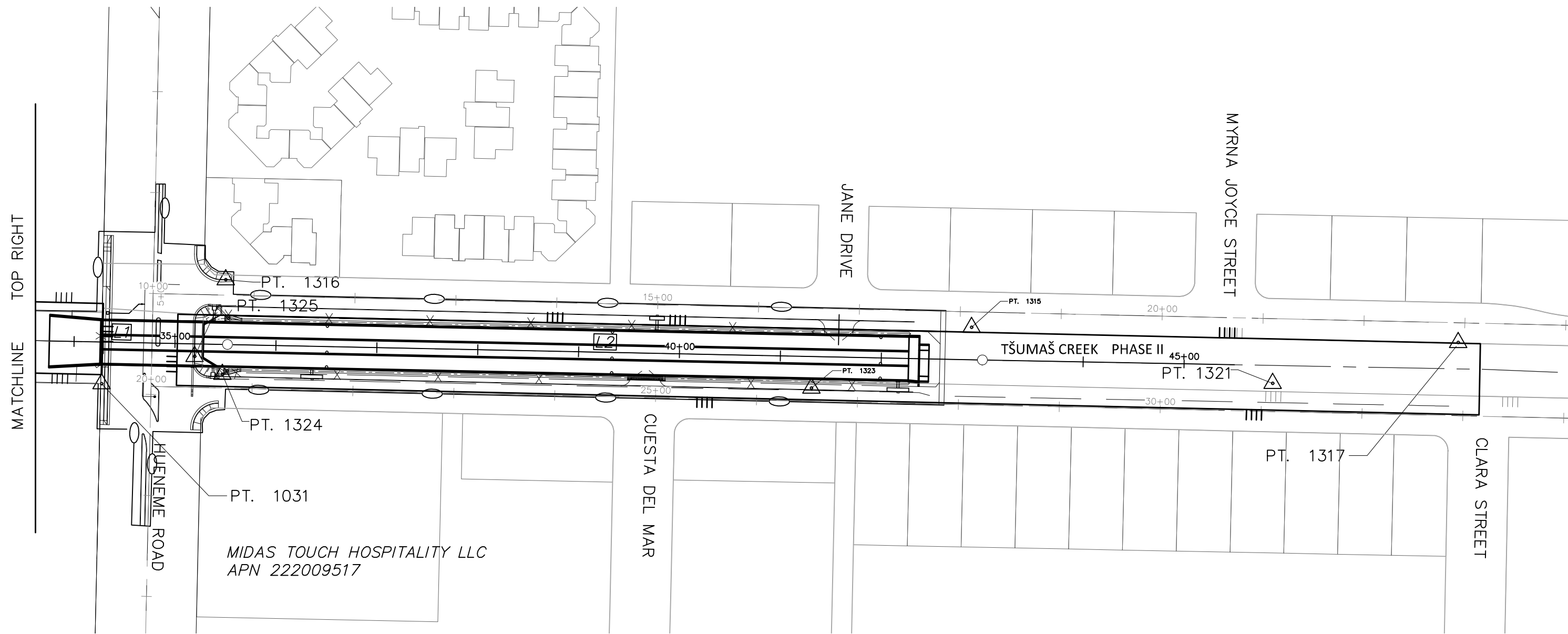
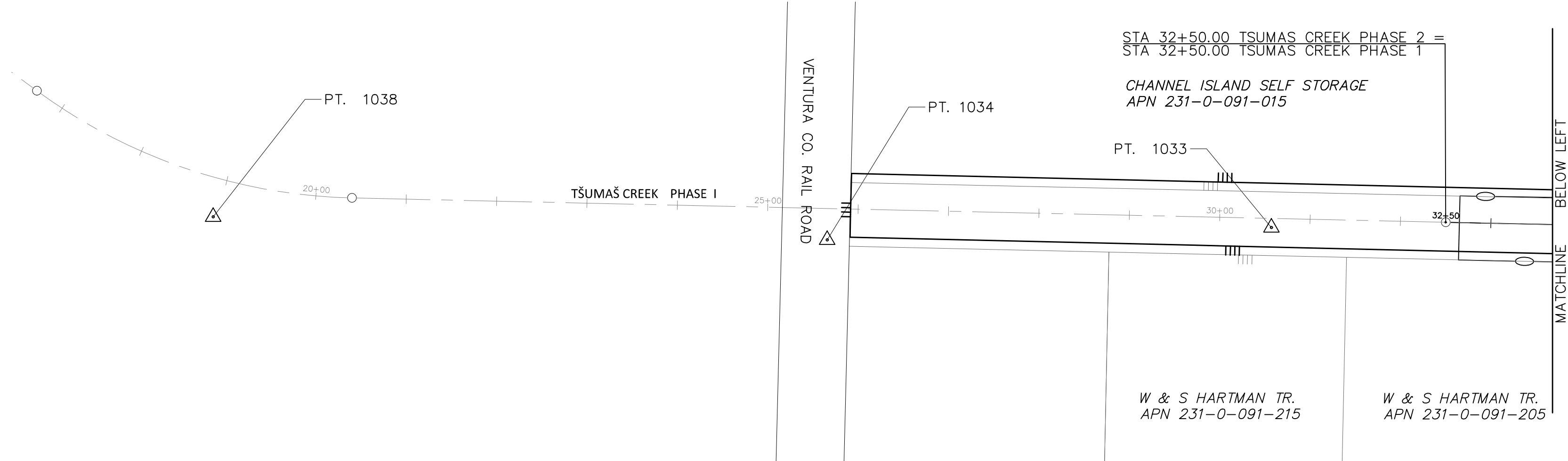
- NOTES:
- ALL CROSS SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
 - CONSTRUCT MODIFIED RETAINING WALL PER SPPWC STANDARD 615-4 TYPE 6, LOAD CASE 1, "H" PER PROFILE AND PER DETAIL (Z1 26)
 - CONSTRUCT MODIFIED RETAINING WALL PER SPPWC STANDARD 610-3 TYPE 1, LOAD CASE 1, "H" PER PROFILE AND PER DETAIL (Z2 26)



PLOT DATE: 9/17/20

SAVE DATE: 9/2/20 MUELLER, JOHN K:\PROJECTS\ZONE2\TJUMAS\CHUMASH\CREEK\92323_TJUMAS_CREEK_HUENEME_RD_JANE_DRIVE\DESIGN\DRAWINGS\FINAL PLANS\CROSS SECTIONS STA 41+50 TO 42+40.DWG

D				J MUELLER	DESIGNED	9/24/2020	VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION	SPEC. NO.	TJUMAŠ (CHUMASH) CREEK IMPROVEMENTS HUENEME ROAD TO UPSTREAM OF JANE DRIVE CROSS SECTIONS STA 41+50 TO 42+40, WALL LOCATION DETAILS, AND RETAINING WALL DETAILS	SHEET 26 OF 30 DRAWING SET NO. WP-2-386
C				JM / ND	DRAWN	9/28/2020		WP21-01		
B				K NORMAN	CHECKED	9/29/2020		PROJ. NO.		
A								82323		
Δ	REVISION	DESCRIPTION	APP.	DATE						



SURVEY CONTROL				
PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1315	238561.88	1641400.68	11.58	LTT
1316	237823.03	1641353.58	11.70	LTT
1317	239044.16	1641415.71	12.42	LTT
1321	238860.22	1641456.20	7.82	LTT
1323	238403.21	1641460.80	12.03	LTT
1324	237819.56	1641447.20	11.44	MAG & SHINER
1325	237792.03	1641429.52	12.32	LTT

HORIZONTAL DATUM: CCS 27, ZONE V (US FEET)
VERTICAL DATUM: NGVD 29, SCRP 1980 (US FEET)
DATE OF SURVEY: NOVEMBER 2013
FIELD BOOK: VCFB 2013-053

SURVEY CONTROL				
PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1031	237699.93	1641456.47	12.65	LTT
1033	237330.01	1641417.28	5.73	LTT
1034	236838.58	1641431.00	10.75	1/2" REBAR
1038	236159.47	1641405.49	11.51	1/2" REBAR

HORIZ. DATUM: NAD. 27 (US FT)
VERT. DATUM: NGVD 1929, SCRP 1980 (US FT)
DATE OF SURVEY: SEPTEMBER 2009
FIELD BOOK: VCFB 2009-034

LINE DATA			
TAG NO.	ALIGNMENT	LENGTH	BEARING
L1	TŠUMAŠ CREEK PHASE 2	302.00'	N1°11'17"E
L2	TŠUMAŠ CREEK PHASE 2	748.00'	N1°10'19"E



D				J M	DESIGNED	8/26//2020	DATE	VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION	SPEC. NO.	TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS HUENEME ROAD TO UPSTREAM OF JANE DRIVE HORIZONTAL AND VERTICAL CONTROL	SHEET 27
C				J M	WATERSHED PROJECT MANAGER		DATE		WP21-01		OF 30
B				K NORMAN	WATERSHED DEPUTY DIRECTOR		DATE		PROJ. NO.		DRAWING SET NO.
A					WATERSHED DIRECTOR		DATE		82323		WP-2-386
Δ	REVISION	DESCRIPTION	APP.	DATE							

POLE AND EQUIPMENT SCHEDULE

SIGN LEGEND:

EXISTING PHASE DIAGRAM

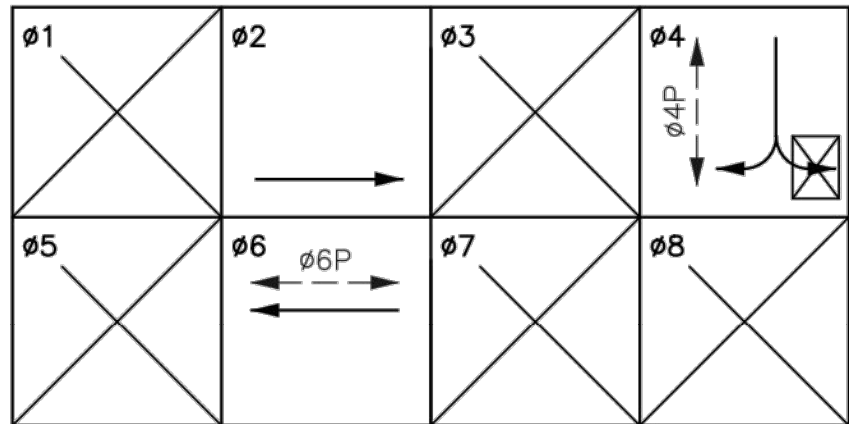
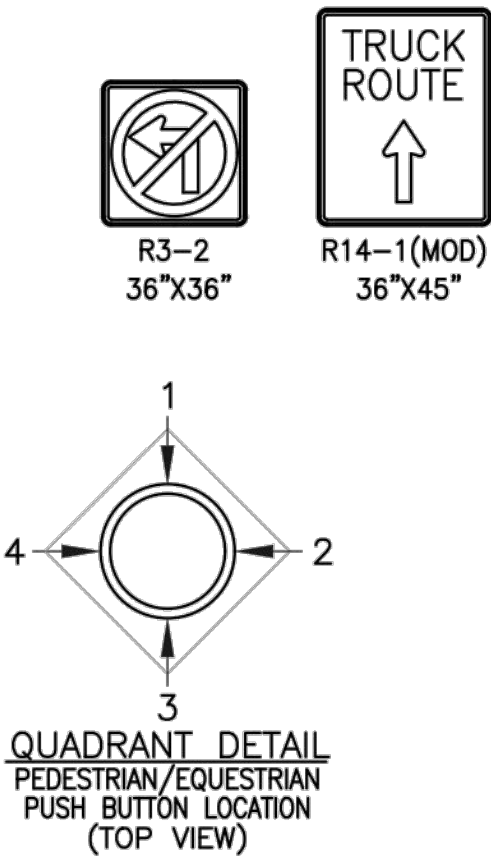
CONDUCTOR SCHEDULE

POLE	STANDARDS					VEH. SIGNAL MTG.		PED. SIG.		P.P.B.		POLE LOC.			H.P.S.V.	MAST ARM MOUNTED INTERNALLY ILLUMINATED	COMMENTS
	YEAR	STD.	TYPE	HEIGHT	SIGNAL M.A.	LUMIN. M.A.	MAST ARM	POLE	MTG.	Ø	QUAD	E	B	C	Luminare		
A	1988	18-2-80	(E)	17'	25'	-	MAS	SV-2-T	-	-	-	EXISTING			-	J STREET	-
AA	*	16-2-100	(T)	18.5'	15'	-	MAS	SV-2-T	-	-	-	AS SHOWN			-	-	-
B	1988	1-A	(T)	10'	-	-	-	TV-2-T	SP-1-T	4	2	EXISTING			-	-	* 13
C	1988	1-A	(E)	7'	-	-	-	TV-1-T	SP-1-T	-	-	EXISTING			-	-	-
D	1988	PPB-POST	(E)	4'-7"	-	-	-	-	-	4/6	2/3	EXISTING			-	-	-
E	1988	18-2-80	(E)	17'	25'	-	MAS	SV-1-T	SP-1-T	-	-	EXISTING			-	J STREET	-
F	1988	1-A	(E)	7'	-	-	-	TV-1-T	TP-1-T	6	1	EXISTING			-	-	-
G	1988	1-A	(E)	10'	-	-	-	-	TP-1-T	6	4	EXISTING			-	-	-

Δ = EXACT TEMPORARY POLE LOCATIONS DETERMINED BY FIELD ENGINEER. (E)=EXISTING POLE (T)=TEMPORARY POLE
* = CONTRACTOR SHALL INSTALL WEIGHTED BLOCKS AT BASE OF POLES PER DETAIL 'A' AND AS REQUIRED PER POLE TYPE.

CONSTRUCTION NOTES:

- EXISTING MODEL 170ATC CONTROLLER ASSEMBLY WITH AUXILIARY EQUIPMENT IN A MODEL 332 CABINET AND ADJACENT TRAFFIC SIGNAL EQUIPMENT ARE TO BE ADJUSTED TO THE PROPOSED GRADE DURING THIS PHASE OF OPERATION.
- FURNISH AND INSTALL ITERS VIDEO DETECTION CAMERA (OR APPROVED EQUAL) ON ADJUSTABLE HEIGHT CAMERA BRACKET PER MANUFACTURER'S SPECIFICATIONS.
- VIDEO DETECTION ZONES SHALL BE MODIFIED TO ACCOMMODATE LANE CONFIGURATION DURING EACH PHASE OF CONSTRUCTION.
- CONTRACTOR TO VERIFY POLE MOUNTED PEDESTRIAN PUSH BUTTON HEIGHT AND LOCATION MEETS ADA REQUIREMENTS.
- DEACTIVATE EXISTING DETECTION LOOPS
- CONTRACTOR SHALL COORDINATE WITH SCE FOR TEMPORARY POINT OF SERVICE.
- SUPPLY TEMPORARY 170ATC (OR ALLOWED OTHER) CONTROLLER HOUSED INSIDE A TYPE 332 CABINET. MOUNT MINIMUM 10' HIGH CONDUIT TO SIDE OF CABINET TO RUN OVERHEAD CABLING. SUPPLY ALL APPURTENANT EQUIPMENT TO ACHIEVE INTENDED OPERATION.
- CONTRACTOR IS TO INSTALL NEW PULL BOX TO INTERCEPT EXISTING TRAFFIC SIGNAL CONDUCTORS AND REROUTE, VIA TEMP CONDUCTOR CABLES, TO TEMPORARY CONTROLLER LOCATION.
- CONTRACTOR IS TO PROVIDE PROPER A.D.A. RAMPING (WITH ASPHALT) OVER TEMPORARY CONDUITS IN AREAS WHERE INTERACTION WITH PEDESTRIANS ARE PREVALENT.
- CONTRACTOR IS TO EXTEND EXISTING CONDUIT BY INSTALLING ADDITIONAL NEW 3' CONDUIT (IN GROUND) TO PROPOSED PULL BOX LOCATION. EXISTING CONDUCTORS SHALL BE PULLED, BUNDLED AND USED FOR THE PROPER OPERATION OF THE INTERSECTION.
- CONTRACTOR IS TO EXTEND EXISTING CONDUIT (IN GROUND) FOR PHASE 2 OPERATION AND ULTIMATE DESIGN.
- CONTRACTOR IS TO INSTALL 2" CONDUIT WITH STUB-OUT AT ULTIMATE POLE LOCATION FOR USE DURING PHASE 2 OPERATION AND ULTIMATE DESIGN.
- CONTRACTOR IS TO TRANSFER EXISTING POLE TO A TEMPORARY STEEL PLATE PER DETAIL-'A' OF THIS SHEET.

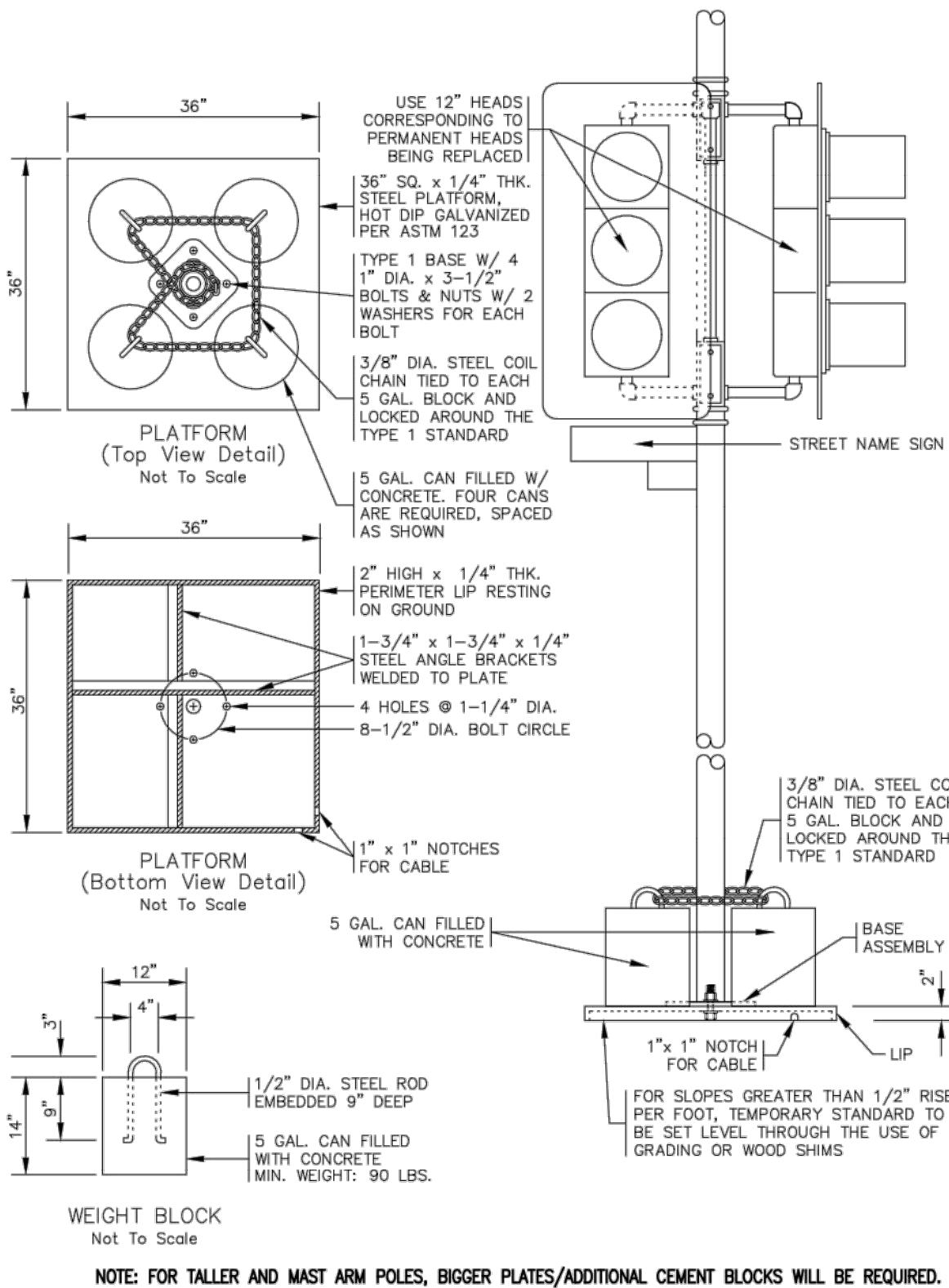


AWG SIZE OR CABLE TYPE	POLE & CIRCUIT	CONDUIT / CABLE NUMBER						
		(N)	(N)	(N)	(E)	(E)	(E)	(E)
12 CONDUCTOR	POLE - (A) #2	-	-	-	-	-	-	-
	(B) - (G)	-	2	1	-	-	-	-
9 CONDUCTOR	TOTAL	-	1	2	1	-	-	-
	#14	-	-	-	-	-	-	-
#12	TRAFFIC CONDUCTORS	-	-	-	17	13	13	13
#10	IISNS	-	2	-	2	2	-	-
#18	SIGNAL COMMON	-	1	-	1	1	1	1
3-#18	VIDEO POWER & CABLE	-	1	-	-	-	-	-
DETECTION CABLE		-	8	-	5	-	-	-
CONDUIT SIZE		-	2"	2"	3"	2"	2"	2"

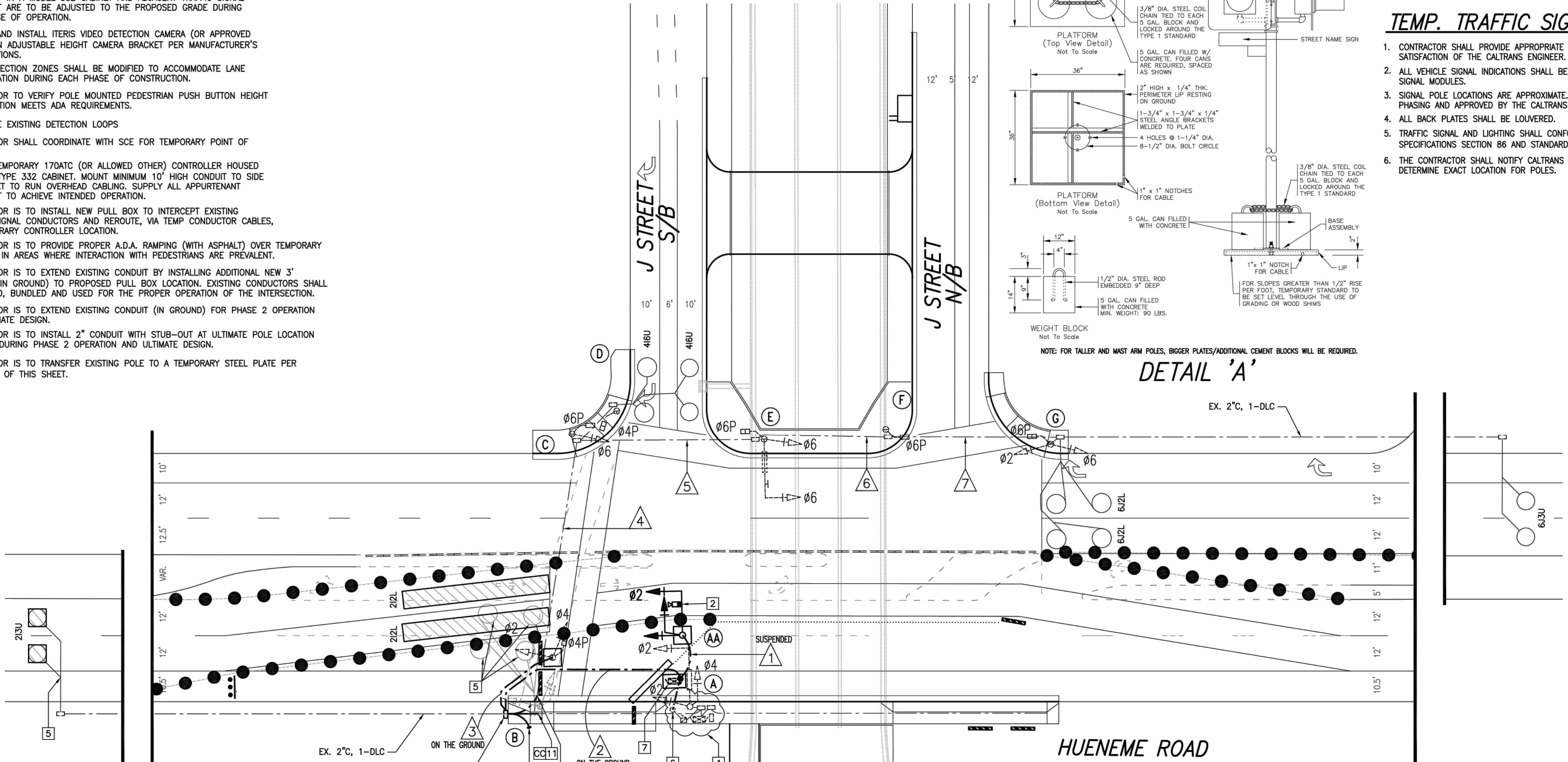
* ALL SUSPENDED SIGNAL CABLE SHALL BE AERIAL MOUNTED AT A MIN. HEIGHT OF 17'.

TEMP. TRAFFIC SIGNAL GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE APPROPRIATE TEMPORARY INTERSECTION LIGHTING TO THE SATISFACTION OF THE CALTRANS ENGINEER.
- ALL VEHICLE SIGNAL INDICATIONS SHALL BE 12-INCH AND SHALL BE INSTALLED WITH "LED" SIGNAL MODULES.
- SIGNAL POLE LOCATIONS ARE APPROXIMATE. LOCATIONS TO BE DETERMINED BY CONSTRUCTION PHASING AND APPROVED BY THE CALTRANS ENGINEER.
- ALL BACK PLATES SHALL BE LOUVERED.
- TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS SECTION 86 AND STANDARD PLANS FOR SIGNAL POLES (LATEST EDITION).
- THE CONTRACTOR SHALL NOTIFY CALTRANS REPRESENTATIVE TO SCHEDULE A FIELD REVIEW TO DETERMINE EXACT LOCATION FOR POLES.



DETAIL 'A'

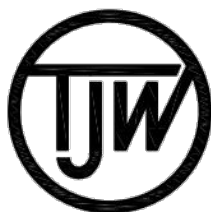


PLOT DATE: 8/21/20

PLOT DATE: 8/26/20

SAVE DATE: 8/24/20 DOKTOROV, NATALIYA K:\PROJECTS\ZONE2\TSMAS\CHUMASH\GREEK\82323_TSMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DESIGNDRAWINGS\FINAL_PLANS\28_30_TEMP TRAFFIC CONTROL.DWG
SAVE DATE: 8/21/20 STEVE ZEVALLOS C:\USERS\STEVE ZEVALLOS\DROPBOX (TJW ENGINEERING INC.)\TJW PROJECTS\MNS PROJECTS\MNS-18-004\MNS18004 TEMPORARY TS B.DWG

D				
C				
B				
A				
Δ	REVISION	DESCRIPTION	APP.	DATE



TJW ENGINEERING, INC.
Traffic Engineering &
Transportation Planning Consultants
6 Venture, Suite 225, Irvine, CA 92618
t: (949) 878-3509 f: (949) 878-3593
www.tjwengineering.com

STEVE ZEVALLOS
DESIGNED
STEVE ZEVALLOS
DRAWN
THOMAS WHEAT
CHECKED

Watershed Project Manager
8/26/2020
DATE
Watershed Deputy Director
DATE
Watershed Director
DATE

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO.
WP21-01
PROJ. NO.
82323

TŠMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE
TEMPORARY TRAFFIC SIGNAL PLANS - PHASE 1



SHEET 28
OF 30
DRAWING SET NO.
WP-2-386

POLE AND EQUIPMENT SCHEDULE

SIGN LEGEND:

EXISTING PHASE DIAGRAM

CONDUCTOR SCHEDULE

POLE	STANDARDS				VEH. SIGNAL MTG.		PED. SIG.	P.P.B.		POLE LOC.			H.P.S.V.	MAST ARM MOUNTED INTERNALLY ILLUMINATED	COMMENTS
	YEAR STD.	TYPE	HEIGHT	SIGNAL M.A.	LUMIN. M.A.	MAST ARM	POLE	MTG.	Ø	QUAD	E	B	C	Luminare	
A	1988	18-2-80 (E)	17'	25'	-	MAS	SV-2-T	-	-	-	-	-	-	J STREET	-
AA	*	16-2-100 (T)	18.5'	15'	-	MAS	SV-2-T	-	-	-	-	-	-	-	5
BB	*	16-2-100 (T)	18.5'	-	-	-	-	-	-	-	-	-	-	AS SHOWN	-
CC	*	16-2-100 (T)	18.5'	-	-	-	-	-	-	-	-	-	-	AS SHOWN	-
B	1988	1-A (T)	10'	-	-	-	TV-2-T	SP-1-T	4	2	-	-	-	EXISTING	*
C	1988	1-A (E)	7'	-	-	-	TV-1-T	SP-1-T	-	-	-	-	-	EXISTING	-
D	1988	PPB-POST (E)	4'-7"	-	-	-	-	-	4/6	2/3	-	-	-	EXISTING	-
E	1988	18-2-80 (E)	17'	25'	-	MAS	SV-1-T	SP-1-T	-	-	-	-	-	J STREET	-
F	1988	1-A (E)	7'	-	-	-	TV-1-T	TP-1-T	6	1	-	-	-	EXISTING	-
G	1988	1-A (E)	10'	-	-	-	-	TP-1-T	6	4	-	-	-	EXISTING	-

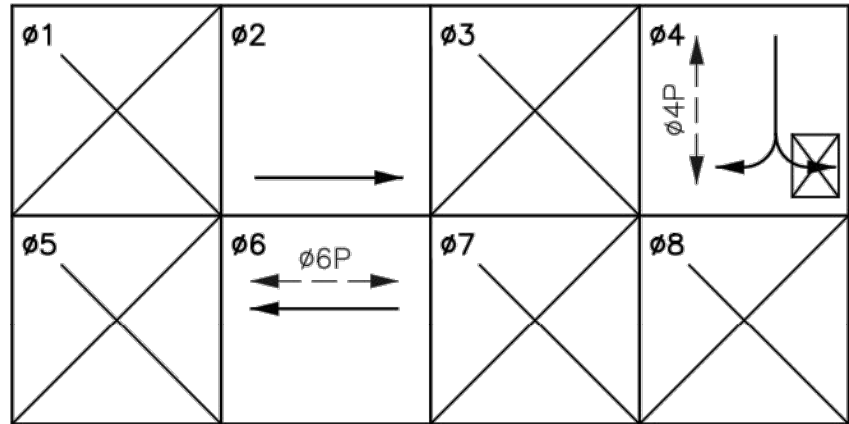
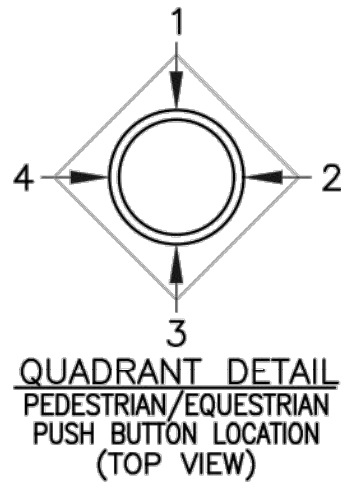
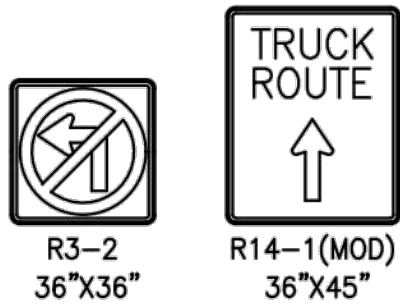
Δ = EXACT TEMPORARY POLE LOCATIONS DETERMINED BY FIELD ENGINEER. (E)=EXISTING POLE (T)=TEMPORARY POLE
* = CONTRACTOR SHALL INSTALL WEIGHTED BLOCKS AT BASE OF POLES PER DETAIL 'A' AND AS REQUIRED PER POLE TYPE.

CONSTRUCTION NOTES:

- EXISTING MODEL 170ATC CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT IN A MODEL 332 CABINET. MOUNT MINIMUM 10' HIGH CONDUIT TO SIDE OF CABINET TO RUN OVERHEAD CABLING. SUPPLY ALL APPURTENANT EQUIPMENT TO ACHIEVE INTENDED OPERATION.
- FURNISH AND INSTALL ITERIS VIDEO DETECTION CAMERA (OR APPROVED EQUAL) ON ADJUSTABLE HEIGHT CAMERA BRACKET PER MANUFACTURER'S SPECIFICATIONS.
- VIDEO DETECTION ZONES SHALL BE MODIFIED TO ACCOMMODATE LANE CONFIGURATION DURING EACH PHASE OF CONSTRUCTION.
- CONTRACTOR TO VERIFY POLE MOUNTED PEDESTRIAN PUSH BUTTON HEIGHT AND LOCATION MEETS ADA REQUIREMENTS.
- REMOVE TEMP SIGNAL POLE.
- DEACTIVATE EXISTING DETECTION LOOPS

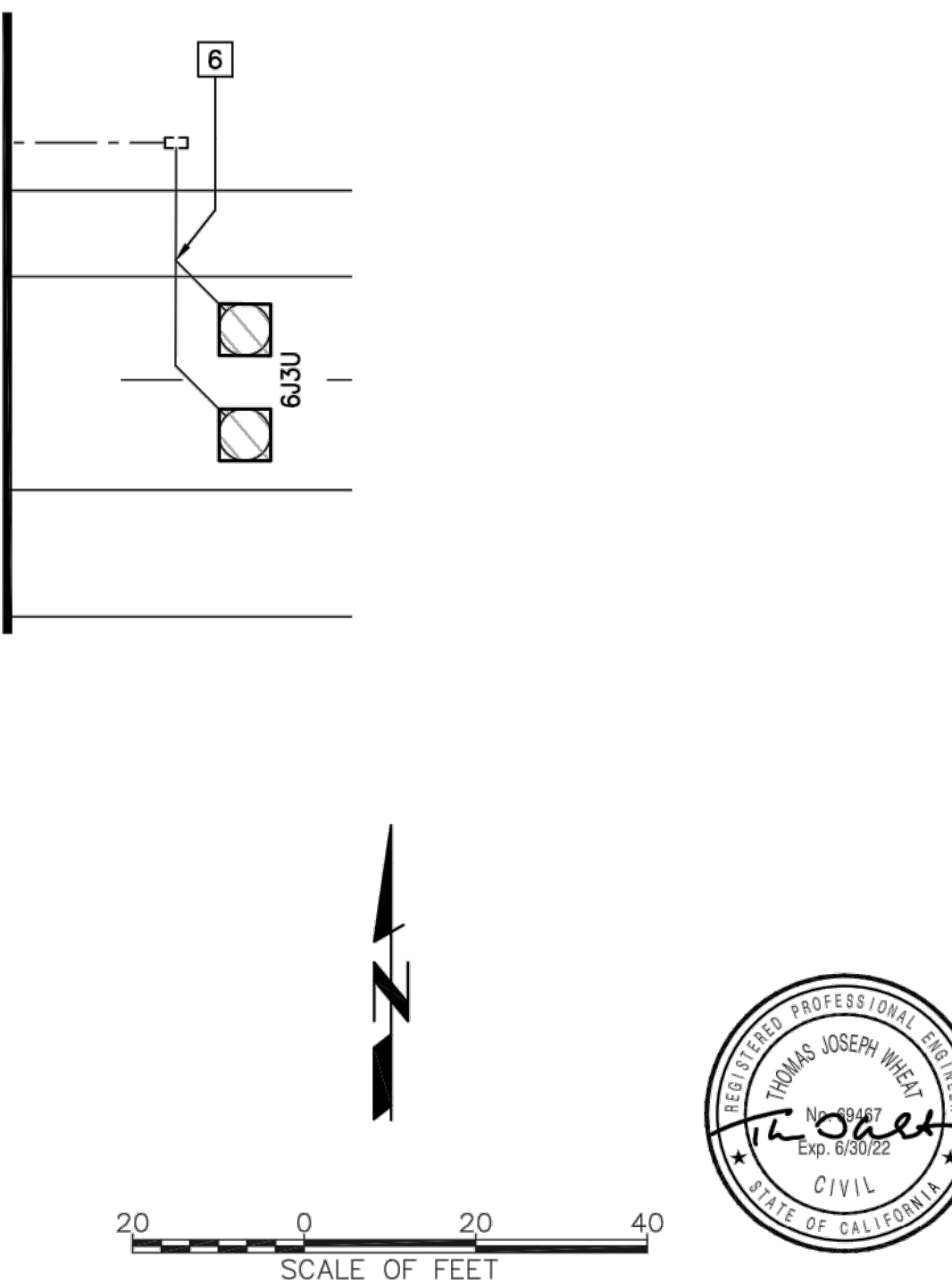
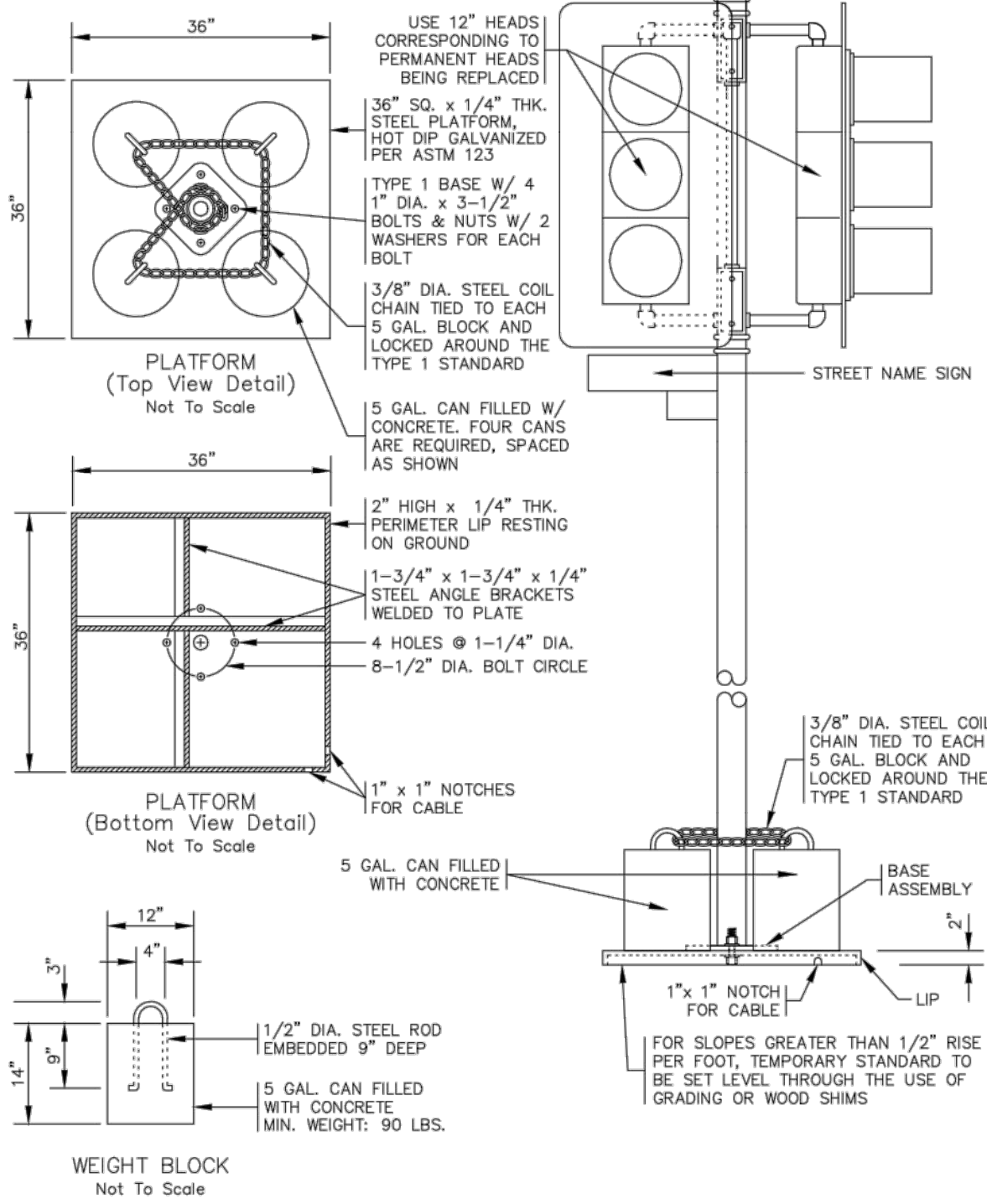
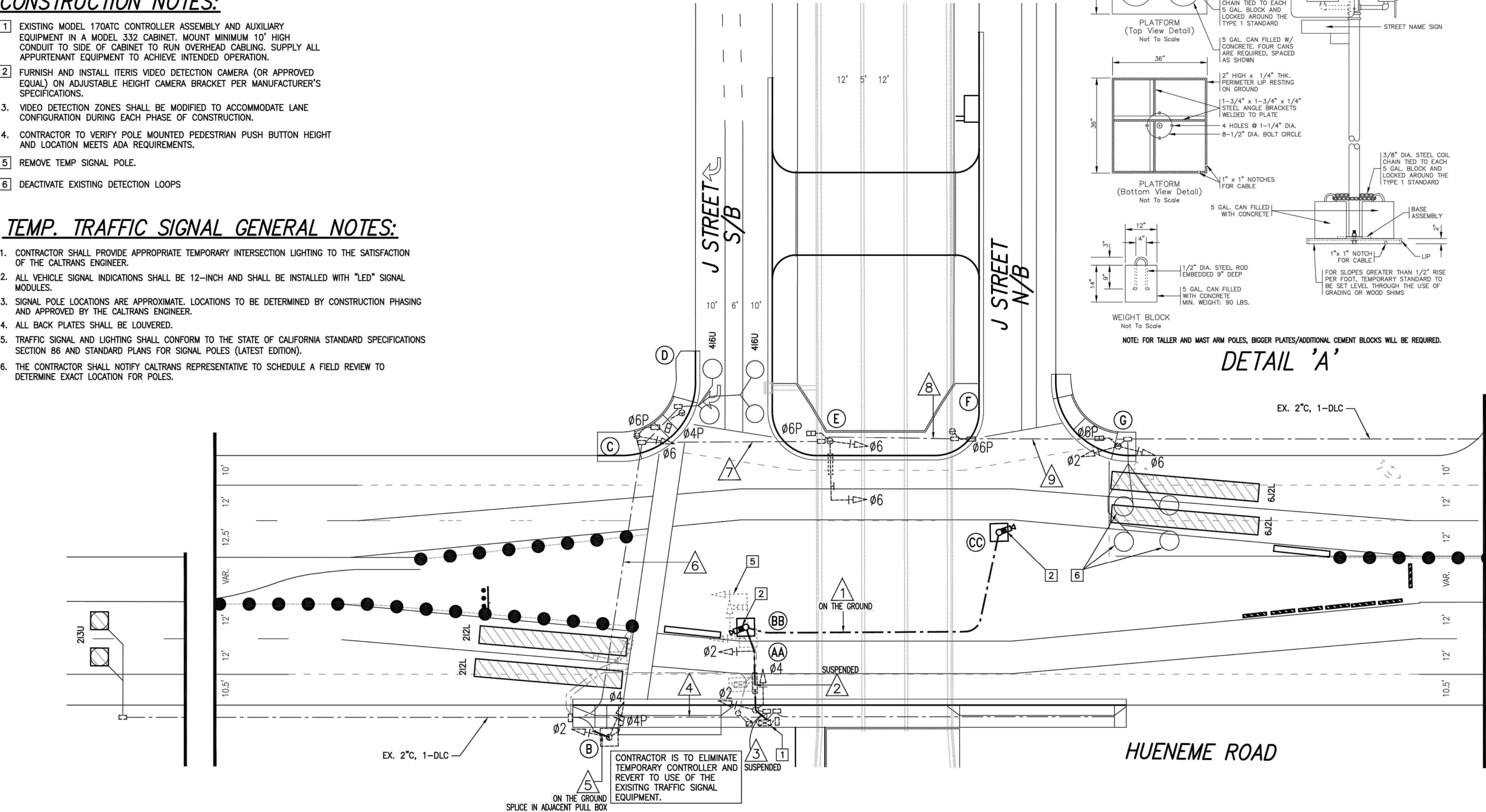
TEMP. TRAFFIC SIGNAL GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE APPROPRIATE TEMPORARY INTERSECTION LIGHTING TO THE SATISFACTION OF THE CALTRANS ENGINEER.
- ALL VEHICLE SIGNAL INDICATIONS SHALL BE 12-INCH AND SHALL BE INSTALLED WITH "LED" SIGNAL MODULES.
- SIGNAL POLE LOCATIONS ARE APPROXIMATE. LOCATIONS TO BE DETERMINED BY CONSTRUCTION PHASING AND APPROVED BY THE CALTRANS ENGINEER.
- ALL BACK PLATES SHALL BE LOUVERED.
- TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS SECTION 86 AND STANDARD PLANS FOR SIGNAL POLES (LATEST EDITION).
- THE CONTRACTOR SHALL NOTIFY CALTRANS REPRESENTATIVE TO SCHEDULE A FIELD REVIEW TO DETERMINE EXACT LOCATION FOR POLES.



AWG SIZE OR CABLE TYPE	POLE & CIRCUIT	CONDUIT / CABLE NUMBER								
		(N)	(N)	(N)	(E)	(N)	(E)	(E)	(E)	(E)
12 CONDUCTOR	POLE - AA	-	-	-	-	-	-	-	-	-
	BB	-	-	-	-	-	-	-	-	-
	CC	-	-	-	-	-	-	-	-	-
9 CONDUCTOR	POLE - B	-	-	-	-	-	-	-	-	-
	BB	-	-	-	-	-	-	-	-	-
	CC	-	-	-	-	-	-	-	-	-
TOTAL		-	-	-	-	1	1	-	-	-
#14	TRAFFIC CONDUCTORS	-	-	-	20	-	17	13	13	13
#12	ISNS	-	-	-	2	-	2	2	-	-
#10	SIGNAL COMMON	-	-	-	1	-	1	1	1	1
3-#18	VIDEO POWER & CABLE	1	2	2	-	-	-	-	-	-
DETECTION CABLE		-	-	-	8	-	5	-	-	-
CONDUIT SIZE		-	-	-	3"	2"	3"	2"	2"	2"

* ALL SUSPENDED SIGNAL CABLE SHALL BE AERIAL MOUNTED AT A MIN. HEIGHT OF 17'.



PLOT DATE: 8/21/20
PLOT DATE: 8/26/20

SAVE DATE: 8/24/20 DOKTOROV, NATALIYA K:\PROJECTS\ZONE2\TSMAS\CHUMASH\CREEK\82323_TSMAS_CREEK_HUENEME_RD_JANE_DR\DESIGN\DRAWINGS\FINAL_PLANS\28_30_TEMP TRAFFIC CONTROL.DWG
SAVE DATE: 8/21/20 STEVE ZEVALLOS C:\USERS\STEVE ZEVALLOS\DROPBOX (TJW ENGINEERING INC.)\TJW PROJECTS\MNS PROJECTS\MNS-18-004\MNS18004 TEMPORARY TS B.DWG

D				
C				
B				
A				
Δ	REVISION	DESCRIPTION	APP.	DATE

TJW ENGINEERING, INC.
Traffic Engineering &
Transportation Planning Consultants
6 Venture, Suite 225, Irvine, CA 92618
t: (949) 878-3509 f: (949) 878-3593
www.tjwengineering.com

STEVE ZEVALLOS	DESIGNED
STEVE ZEVALLOS	DRAWN
THOMAS WHEAT	CHECKED

<i>Mark Roman</i>	8/26//2020
WATERSHED PROJECT MANAGER	DATE
WATERSHED DEPUTY DIRECTOR	DATE
WATERSHED DIRECTOR	DATE

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

SPEC. NO.
WP21-01
PROJ. NO.
82323

**TŠUMAŠ (CHUMASH) CREEK IMPROVEMENTS
HUENEME ROAD TO UPSTREAM OF JANE DRIVE**
TEMPORARY TRAFFIC SIGNAL PLANS - PHASE 2

SHEET	29
OF	30
DRAWING SET NO.	WP-2-386

CONDUCTOR SCHEDULE

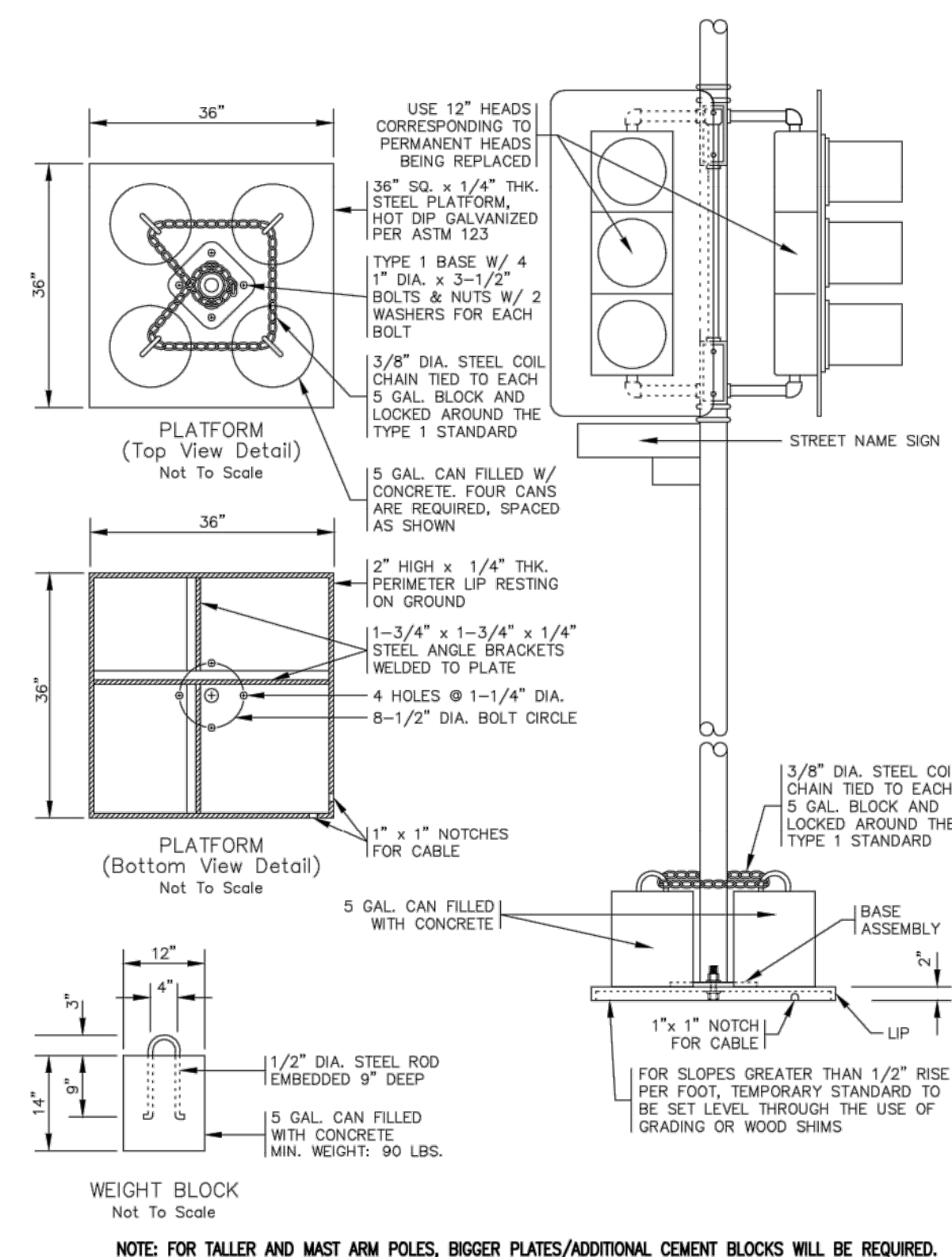
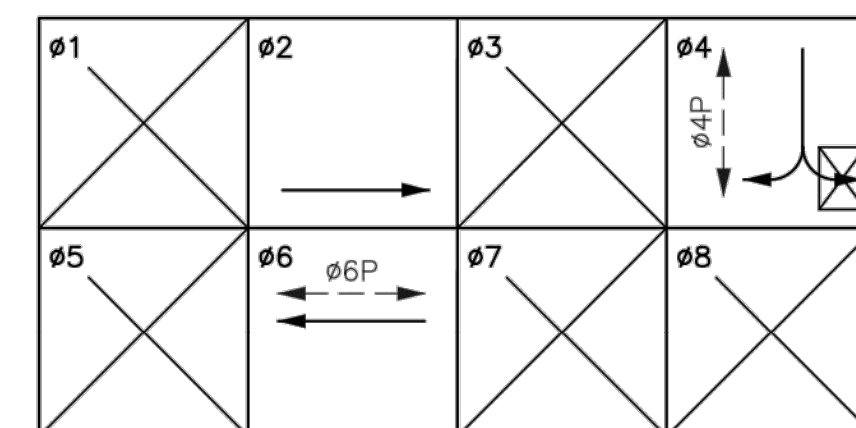
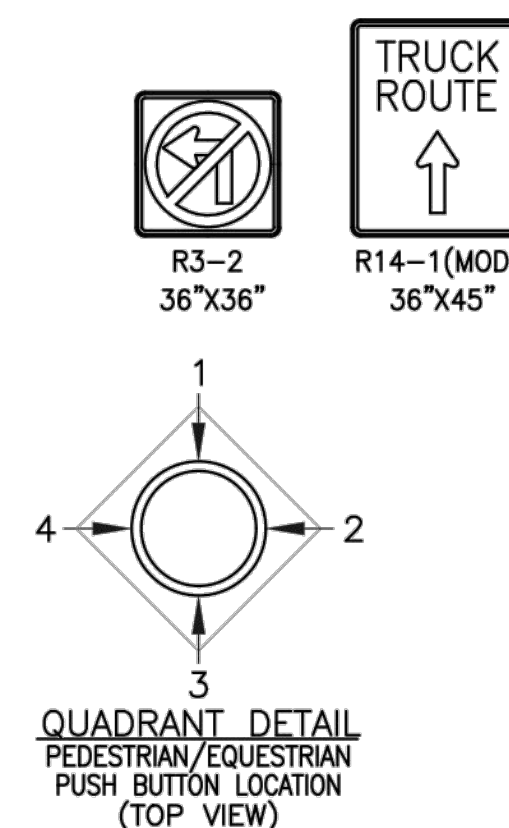
POLE	STANDARDS					VEH. SIGNAL MTG.		PED. SIG.	P.P.B.		POLE LOC.			H.P.S.V.	MAST ARM MOUNTED INTERNALLY ILLUMINATED	COMMENTS
	YEAR STD.	TYPE	HEIGHT	SIGNAL M.A.	LUMIN. M.A.	MAST ARM	POLE	MTG.	ø	QUAD	E	B	C	Luminare		
(A)	1988	18-2-80 (E)	17'	25'	-	MAS	SV-2-T	-	-	-	EXISTING			-	J STREET	-
(AA)	*	16-2-100 (T)	18.5'	15'	-	-	-	-	-	-	EXISTING			-	-	5
(BB)	*	16-2-100 (T)	18.5'	-	-	MAS	SV-1-T	-	-	-	AS SHOWN			-	-	-
(CC)	*	16-2-100 (T)	18.5'	-	-	-	-	-	-	-	AS SHOWN			-	-	-
(DD)	*	16-2-100 (T)	18.5'	-	-	-	-	-	-	-	AS SHOWN			-	-	-
(B)	1988	1-A (T)	10'	-	-	-	TV-2-T	SP-1-T	4	2	EXISTING			-	-	-
(C)	1988	1-A (E)	7'	-	-	-	TV-1-T	SP-1-T	-	-	EXISTING			-	-	-
(D)	1988	PPB-POST (E)	4'-7"	-	-	-	-	-	4/6	2/3	EXISTING			-	-	-
(E)	1988	18-2-80 (E)	17'	25'	-	MAS	SV-1-T	SP-1-T	-	-	EXISTING			-	J STREET	-
(F)	1988	1-A (E)	7'	-	-	-	TV-1-T	TP-1-T	6	1	EXISTING			-	-	-
(G)	1988	1-A (E)	10'	-	-	-	-	TP-1-T	6	4	EXISTING			-	-	-

CONSTRUCTION NOTES:

- 1 EXISTING MODEL 170ATC CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT IN A MODEL 332 CABINET. MOUNT MINIMUM 10' HIGH CONDUIT TO SIDE OF CABINET TO RUN OVERHEAD CABLING. SUPPLY ALL APPURTENANT EQUIPMENT TO ACHIEVE INTENDED OPERATION.
- 2 FURNISH AND INSTALL ITERIS VIDEO DETECTION CAMERA (OR APPROVED EQUAL) ON ADJUSTABLE HEIGHT CAMERA BRACKET PER MANUFACTURER'S SPECIFICATIONS.
3. VIDEO DETECTION ZONES SHALL BE MODIFIED TO ACCOMMODATE LANE CONFIGURATION DURING EACH PHASE OF CONSTRUCTION.
4. CONTRACTOR TO VERIFY POLE MOUNTED PEDESTRIAN PUSH BUTTON HEIGHT AND LOCATION MEETS ADA REQUIREMENTS.
- 5 REMOVE/RELOCATE TEMP SIGNAL POLE.
- 6 REACTIVATE EXISTING DETECTION LOOPS

TEMP. TRAFFIC SIGNAL GENERAL NOTES:

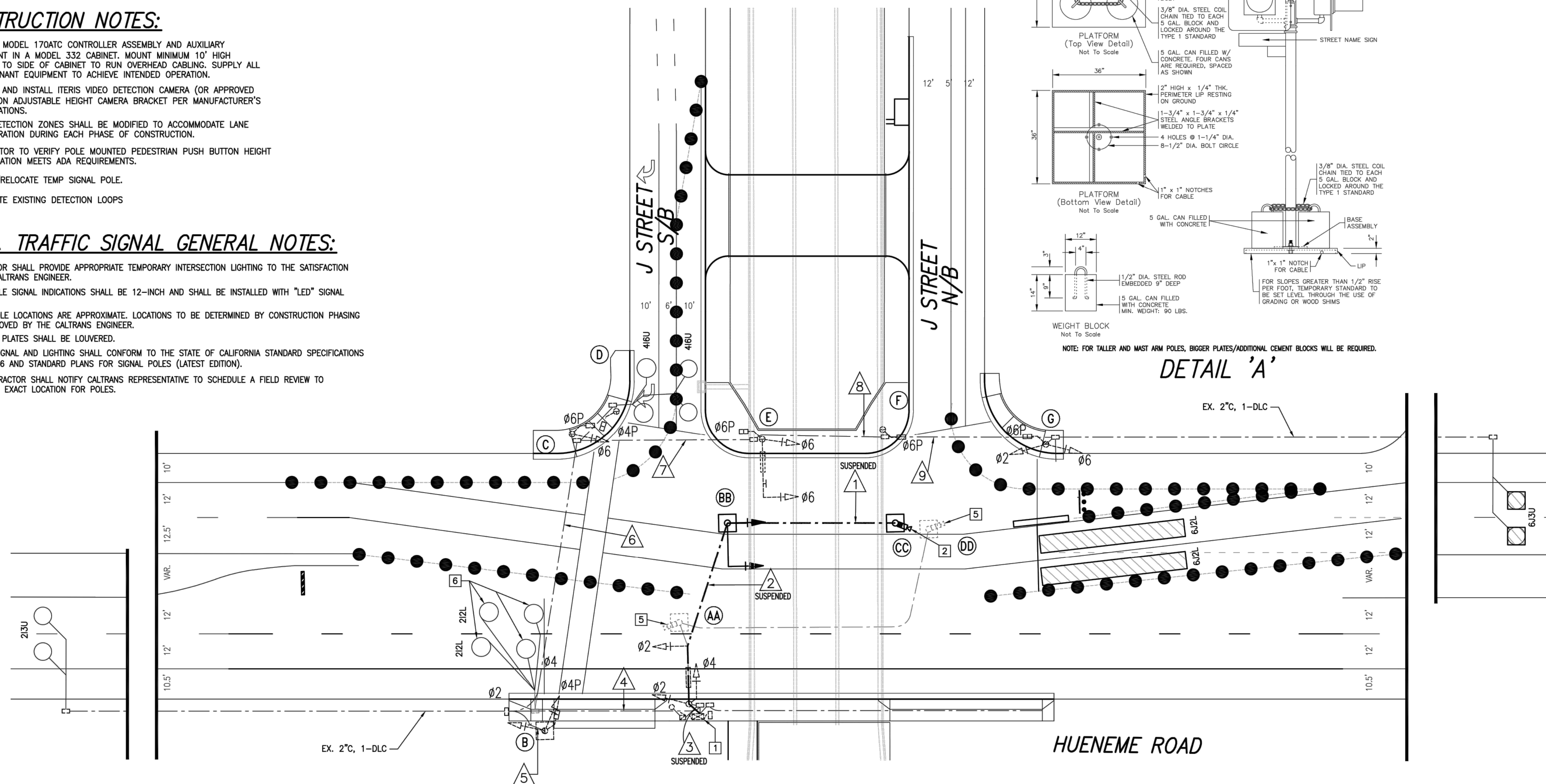
1. CONTRACTOR SHALL PROVIDE APPROPRIATE TEMPORARY INTERSECTION LIGHTING TO THE SATISFACTION OF THE CALTRANS ENGINEER.
2. ALL VEHICLE SIGNAL INDICATIONS SHALL BE 12-INCH AND SHALL BE INSTALLED WITH "LED" SIGNAL MODULES.
3. SIGNAL POLE LOCATIONS ARE APPROXIMATE. LOCATIONS TO BE DETERMINED BY CONSTRUCTION PHASING AND APPROVED BY THE CALTRANS ENGINEER.
4. ALL BACK PLATES SHALL BE LOUVERED.
5. TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS SECTION 86 AND STANDARD PLANS FOR SIGNAL POLES (LATEST EDITION).
6. THE CONTRACTOR SHALL NOTIFY CALTRANS REPRESENTATIVE TO SCHEDULE A FIELD REVIEW TO DETERMINE EXACT LOCATION FOR POLES.



DETAIL 'A'

CONDUCTOR SCHEDULE										
AWG SIZE OR CABLE TYPE	POLE & CIRCUIT	CONDUIT / CABLE NUMBER								
		(N)	(N)	(N)	(E)	(N)	(E)	(E)	(E)	(E)
12 CONDUCTOR	POLE - (A)	1	2	3	4	5	6	7	8	9
	(B)	-	-	-	-	-	-	-	-	-
	(C)	-	-	-	-	-	-	-	-	-
	(D)	-	-	-	-	-	-	-	-	-
9 CONDUCTOR	(E)	-	-	-	-	1	-	-	-	-
	TOTAL	-	-	-	-	1	1	-	-	-
#14	TRAFFIC CONDUCTORS	-	-	-	20	-	17	13	13	13
#12	HSNS	-	-	-	2	-	2	2	-	-
#10	SIGNAL COMMON	-	-	-	1	-	1	1	1	1
3-#18	VIDEO POWER & CABLE	1	1	1	-	-	-	-	-	-
DETECTION CABLE		1	1	1	-	-	-	-	-	-
CONDUIT SIZE		-	-	-	3"	2"	3"	2"	2"	2"

* ALL SUSPENDED SIGNAL CABLE SHALL BE AERIAL MOUNTED AT A MIN. HEIGHT OF 17'.



A horizontal scale bar labeled "SCALE OF FEET". It has markings at 20, 0, 20, and 40 feet. The segment from 0 to 20 feet is divided into four equal parts, each representing 5 feet.

