

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION
ZONE 2
SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2
IN THE CITY OF OXNARD

GENERAL NOTES

- ELEVATIONS SHOWN ARE IN US FEET, NORTH AMERICAN VERTICAL DATUM OF 1988.
- STATIONS SHOWN ON DRAWINGS ARE ALONG CENTERLINE OF STRUCTURE.
- E.G.L. AND H.G.L. 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 X SHALL BE REMOVED. ALL OTHERS SHALL BE PROTECTED, UNLESS OTHERWISE NOTED.
- TOPOGRAPHY AND CROSS SECTIONS FOR THIS PROJECT WERE TAKEN FROM SURVEYS PERFORMED IN 07/2013. CONTRACTOR TO VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION.
- SOIL TEST BORINGS FOR THE PROJECT WERE MADE IN 12/2013, 01/2014, 02/2016, AND 04/2016 AND THEIR LOCATION IS MARKED BY THE SYMBOL \bullet . 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.
- EXISTING IMPROVEMENTS WITHIN THE RIGHT OF WAY AND WORK AREAS SHALL REMAIN AND SHALL BE PROTECTED UNLESS OTHERWISE NOTED. DAMAGED IMPROVEMENTS SHALL BE REPLACED IN KIND TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
- UTILITIES ARE SHOWN AS KNOWN TO EXIST AT TIME OF SURVEY. UTILITIES MAY HAVE BEEN OMITTED, MISPLACED, AND/OR RELOCATED. CONTRACTOR SHALL EXERCISE CARE IN EXCAVATION AND SHALL PROTECT ALL UTILITIES.
- SYMBOL \blacktriangle INDICATES THE LOCATION OF THE HORIZONTAL AND VERTICAL CONTROL POINTS WHICH WILL BE FURNISHED BY THE AGENCY FOR THE CONTRACTOR'S USE.
- CONTRACTOR SHALL NOTIFY UTILITY OWNERS A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK IN AREAS AFFECTING THEIR FACILITIES.

CITY OF OXNARD
VENTURA REGIONAL SANITATION DISTRICT (VRSD)
RIVER RIDGE GOLF COURSE
SOUTHERN CALIFORNIA GAS COMPANY
SOUTHERN CALIFORNIA EDISON COMPANY
UNION PACIFIC RAIL AUTHORITY

TEL. NO. (805) 385-7894 TAI CHAU
TEL. NO. (805) 658-4879 MATT BAUMGARDNER
TEL. NO. (805) 340-8500 JOSH KENNEY
TEL. NO. (818) 707-3902 MARK LAVIN
TEL. NO. (805) 336-5083 LEO TREBELS
TEL. NO. (805) 249-0959 HOOVER SANCHEZ

UNDERGROUND SERVICE ALERT

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

REFERENCE DOCUMENTS

SANTA CLARA RIVER LEVEE FROM
VENTURA ROAD TO S.P.R.R. BRIDGE
STA. 31+50 TO STA. 54+63±
DRAWING NO. Y2-0341

INDEX OF STANDARD PLANS

USED BY REFERENCE

SPPWC STANDARD PLANS:
606-3 HAND RAIL TYPE A

HYDROLOGY DATA

Q 50 = 161397 CFS
Q 100 = 227000 CFS
Q DESIGN = 250000 CFS

GENERAL PLAN

300 150 0 300 600

SCALE: 1"=300'

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2
GENERAL PLAN

INDEX TO SHEETS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	SHEET INDEX
3.	FLOODWALL ALIGNMENT AND SURVEY CONTROL
4.	PLAN AND PROFILE FROM STA 214+05.19 TO STA 223+00.00
5.	PLAN AND PROFILE FROM STA 223+00.00 TO STA 231+00.00
6.	PLAN AND PROFILE FROM STA 231+00.00 TO STA 238+28.95
7.	MISCELLANEOUS RAMP PROFILES
8.	MISCELLANEOUS RAMP PROFILE
9.	FLOODBREAK BARRIER DETAILS
10.	VENTURA ROAD TRANSITION DETAILS
11.	UTILITY PLAN AND DETAILS
12.	EL RIO DRAIN RCB PLAN AND PROFILE
13.	SHEET PILE GENERAL PLAN AND PROFILE
14.	SHEET PILE PROFILE STA 10+00.00 TO STA 15+90.74
15.	SHEET PILE PROFILE STA 15+90.74 TO STA 21+81.47
16.	SHEET PILE PROFILE STA 21+81.47 TO STA 23+14.64
17.	SHEET PILE GENERAL NOTES, WALKER BEAM, AND ANCHOR DETAILS
18.	SHEET PILE ANCHOR DETAILS
19.	SHEET PILE DETAILS NO. 1
20.	SHEET PILE DETAILS NO. 2
21.	SHEET PILE DETAILS NO. 3
22.	SHEET PILE DETAILS NO. 4
23.	SHEET PILE ANCHOR SECTIONS
24.	SHEET PILE ANCHOR SECTION AND SCHEDULE
25.	FLOODWALL PLAN AND PROFILE STA 217+00 TO STA 236+90
26.	FLOODWALL TYPICAL SECTIONS
27.	EL RIO DRAIN - CHANNEL, RCB, AND HEADWALL DETAILS
28.	EL RIO DRAIN - CHANNEL, RCB, AND HEADWALL TYPICAL STRUCTURAL DETAILS
29.	FLOOD GATE FOUNDATION PLAN, SECTIONS AND DETAILS
30.	BANK PROTECTION AND ACCESS ROAD DETAILS
31.	FENCE DETAILS
32.	ADDITIONAL OUTLET AND FLAP GATE DETAILS
33.	CROSS SECTIONS STA 215+00 TO STA 222+00
34.	CROSS SECTIONS STA 224+00 TO STA 234+00
35.	CROSS SECTIONS STA 236+00 TO STA 237+00
36.	LANDSCAPE DEMOLITION PLAN
37.	LANDSCAPE PLAN
38.	PLANTING LEGEND, NOTES, AND DETAILS
39.	IRRIGATION PLAN
40.	IRRIGATION LEGEND, NOTES, AND DETAILS
41.	SIGNING AND STRIPING
42.	STAGE 1 TRAFFIC CONTROL
43.	STAGE 1 TRAFFIC CONTROL
44.	STAGE 2 TRAFFIC CONTROL
45.	STAGE 2 TRAFFIC CONTROL
46.	STAGE 2 TRAFFIC CONTROL
47.	STAGE 3 TRAFFIC CONTROL
48.	STAGE 3 TRAFFIC CONTROL
49.	STAGE 3 TRAFFIC CONTROL
50.	STAGE 4 TRAFFIC CONTROL
51.	STAGE 4 TRAFFIC CONTROL
52.	STAGE 2 DETOUR PLANS
53.	STAGE 3 DETOUR PLANS
54.	SOIL BORING LOGS
55.	FLOOD GATE DETAILS 1 (FLOODBREAK)
56.	FLOOD GATE DETAILS 2 (FLOODBREAK)
57.	FLOOD GATE DETAILS 3 (FLOODBREAK)
58.	FLOOD GATE DETAILS 4 (FLOODBREAK)
59.	FLOOD GATE DETAILS 5 (FLOODBREAK)
60.	FLOOD GATE DETAILS 6 (FLOODBREAK)
61.	CONTROL ROOM ELECTRICAL PLANS
62.	RIGHT OF WAY MAP



DATE: 8/15/24 JENNA CLARK H:\PDATA\136828\CADD\STR\WATER\PLV\BEACH_4\WB28-30-01-TITLE SHEET.DWG

REVISION	DESCRIPTION	APP.	DATE
D			
C			
B			
A			

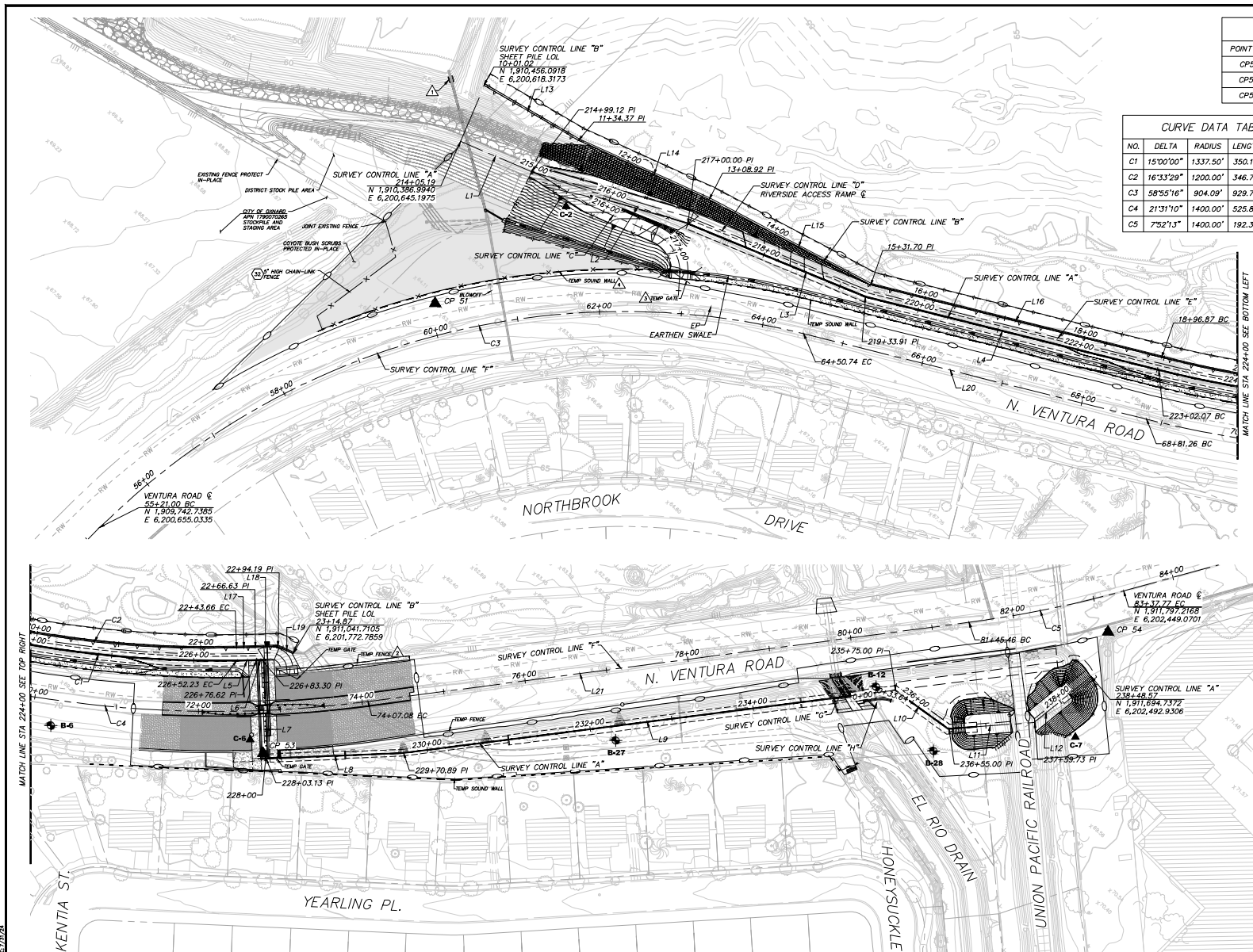
Michael Baker
INTERNATIONAL
3110 Canyon Blvd, Suite 500
Boulder, CO 80501
Phone: (303) 440-2000
mbakerintl.com

8/15/2024
DATE
8/16/2024
DATE
8/16/2024
DATE

SPEC. NO.
WP25-05
PROJ. NO.
82045

SHEET 1
OF 62
DRAWING SET NO.
WPD-2-388

SHEET 2
OF 62
DRAWING NO.
WPD-2-388



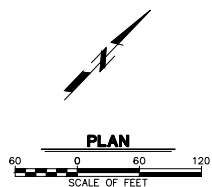
SURVEY CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP51	1910223.3450	6200759.5620	63.750	MAG NAIL
CP53	1910929.0540	6201830.8540	69.762	MAG NAIL
CP54	1911749.0410	6202470.2190	60.994	SCRIBED

CURVE DATA TABLE					STATION	
NO.	DELTA	RADIUS	LENGTH	TANGENT	BC	EC
C1	15°00'00"	1337.50'	350.16'	176.09'	223+02.07	226+52.23
C2	16°33'29"	1200.00'	346.79'	174.61'	18+96.87	22+43.66
C3	58°55'16"	904.09'	929.74'	510.69'	55+21.00	64+50.74
C4	21°31'10"	1400.00'	525.82'	266.04'	68+81.26	74+07.08
C5	7°52'13"	1400.00'	192.31'	96.31'	81+45.46	83+37.77

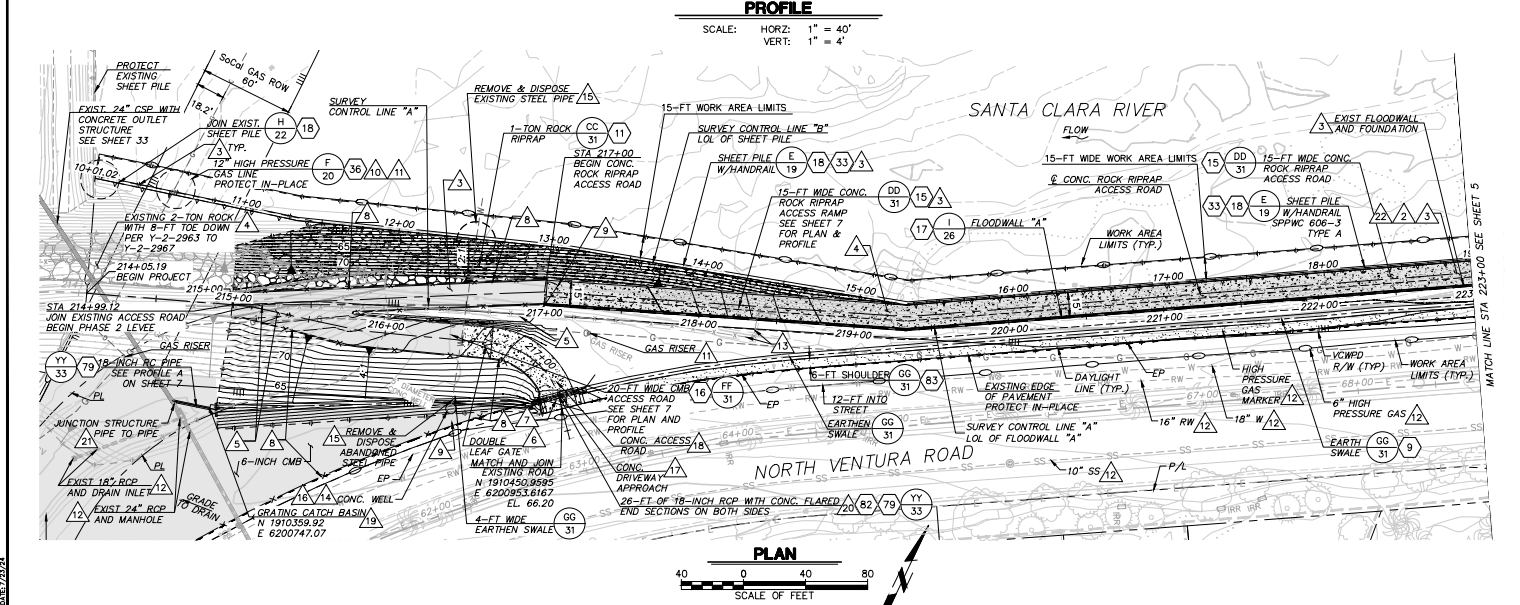
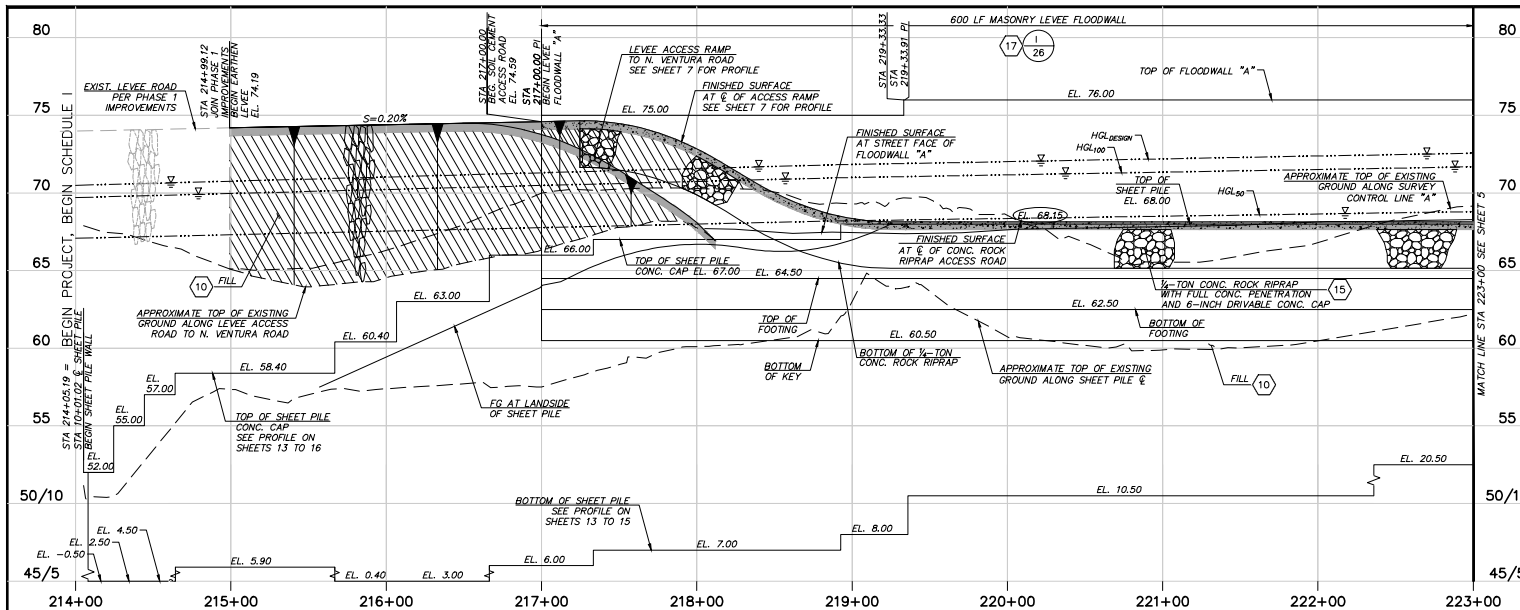
LINE DATA TABLE		
NO.	BEARING	LENGTH
L1	N69°10'14"E	93.93'
L2	N64°37'45"E	200.88'
L3	N68°33'30"E	233.91'
L4	N60°08'16"E	368.17'
L5	N45°08'16"E	24.39'
L6	N43°49'08"E	6.68'
L7	S46°10'52"E	119.83'
L8	N43°49'08"E	167.76'
L9	N38°51'03"E	604.11'
L10	N81°59'41"E	80.00'
L11	N42°06'29"E	104.73'
L12	N70°26'29"E	88.84'
L13	N76°21'46"E	133.35'
L14	N70°30'34"E	174.55'
L15	N74°02'22"E	222.77'
L16	N60°07'11"E	365.17'
L17	N45°09'00"E	22.97'
L18	N43°51'14"E	27.55'
L19	N70°26'01"E	20.68'
L20	N60°08'16"E	430.52'
L21	N38°37'05"E	738.38'

NOTES:

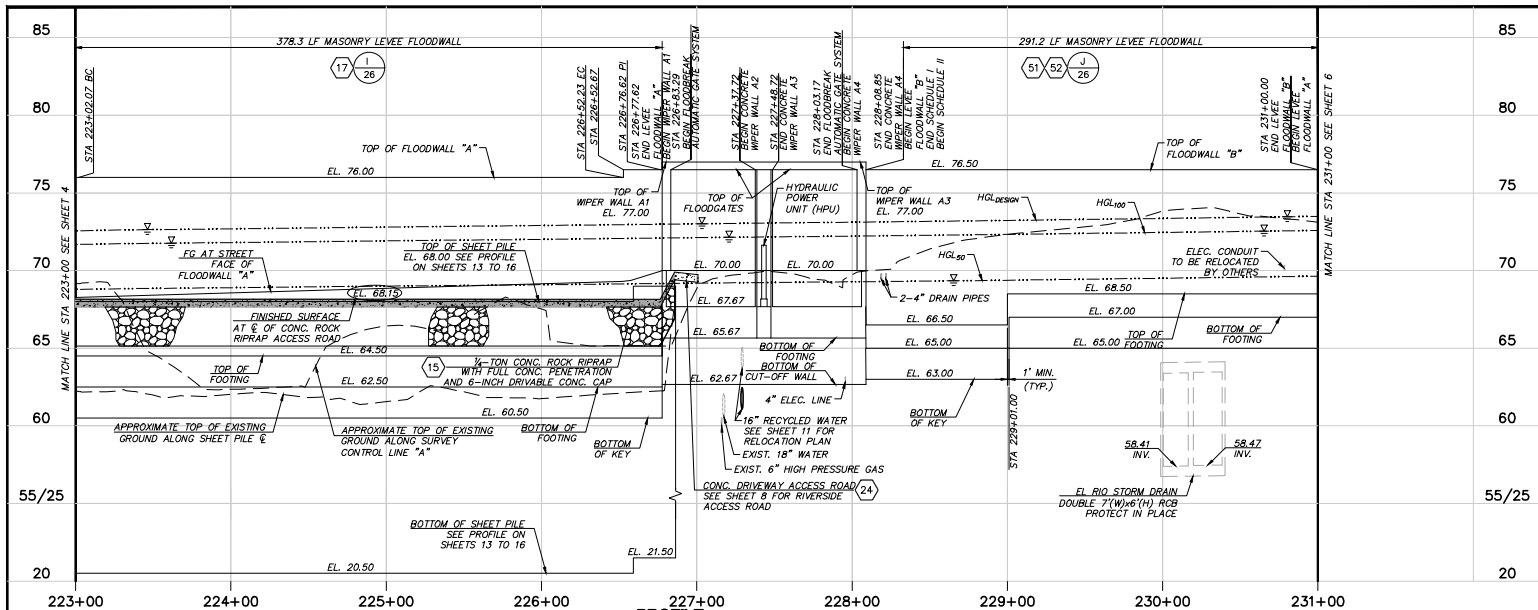
1. CONSTRUCT RC OUTLET STRUCTURE A (22/33/22)
2. CONSTRUCT TEMPORARY CHAIN LINK FENCE (74)
3. CONSTRUCT TEMPORARY CHAIN LINK GATE (87)
4. CONSTRUCT TEMPORARY CONSTRUCTION SOUND BARRIER WALL (88)



DATE: 8/1/2024 DRAWN: [Signature] CHECKED: [Signature] DESIGNED: [Signature] PROJECT: [Signature]		VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION		SPEC. NO.: WP25-05 PROJ. NO.: B2045		SANTA CLARA RIVER LEVEE DOWNSTREAM OF UPRR (SCR-3) - PHASE 2 FLOODWALL ALIGNMENT AND SURVEY CONTROL		SHEET 3 OF 62 DRAWING SET NO. WPD-2-388	
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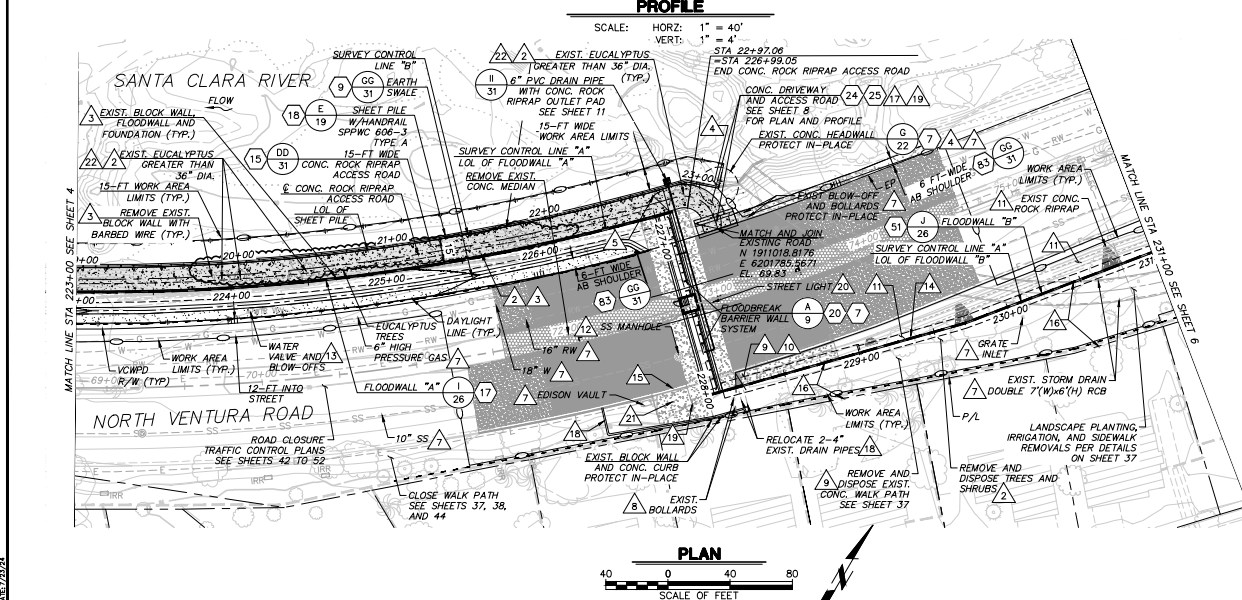


- NOTES:**
- WORK AREA LIMITS SHALL BE STAKED WITH VISIBLE FLAGGING AND ALL ACTIVITIES SHALL BE OPERATED WITHIN THE WORK AREA LIMITS.
 - ALL INTERFERING VEGETATION, TREES, DOWNED TREES, STUMPS, LOGS, BUSHES, SHRUBS, WILLOWS, REEDS, EUCALYPTUS, OLIVES, PALMS, REEDS, ETC. WITHIN THE WORK AREA LIMITS SHALL BE REMOVED TO MINIMUM 3'-FT BELOW GRADE AND DISPOSED OF AT AN APPROVED OFFSITE LOCATION.
 - REMOVE AND DISPOSE OF EXISTING CONCRETE ROCK RIPRAP, BROKEN CONCRETE SLABS, CONCRETE RUBBLE, MASONRY BLOCK WALL, ABANDONED IRRIGATION PIPES, WATER LINES, ELECTRICAL CONDUITS, WOOD AND METAL SCRAP, HOUSEHOLD APPLIANCES, SCRAP CARS, EQUIPMENT PARTS, PLASTIC, TRASH, DEBRIS, ETC. WITHIN THE WORK AREA LIMITS TO AN APPROVED OFFSITE LOCATION.
 - REMOVE, STOCKPILE ON-SITE, AND REINSTALL INTERFERING PORTION OF EXISTING ROCK RIPRAP BANK PROTECTION. ALL INTERFERING ROCK SHALL BE REMOVED PRIOR TO PLACING SHEET PILE (TYPICAL).
 - CONTRACTOR SHALL REMOVE POSTS, RAILS, AND DISPOSE EXISTING CMB, AC AND PMB AT AN APPROVED OFFSITE LOCATION AND SCARIFY THE ACCESS ROAD PRIOR TO PLACING FILL MATERIAL.
 - INSTALL 20'-FT WIDE BY 5'-FT HIGH DOUBLE LEAF CHAIN LINK GATE.
 - EXISTING TRAFFIC SIGNS SHALL BE PROTECTED IN-PLACE OR RE-ESTABLISHED AT THE END OF PROJECT (TYPICAL). AFFECTED DIRECTIONAL SIGNS SHALL BE TEMPORARILY ESTABLISHED DURING CONSTRUCTION.
 - INSTALL 5'-FT HIGH CHAIN LINK FENCE WITH TOP RAIL.
 - INSTALL 15'-FT WIDE BY 5'-FT HIGH SINGLE LEAF CHAIN LINK GATE.
 - CONTRACTOR SHALL NOTIFY THE GAS COMPANY TO COORDINATE THEIR PRESENCE DURING SHEET PILE INSTALLATION OPERATIONS.
 - EXISTING GAS LINE SHALL BE POTHOLED PRIOR TO CONSTRUCTION.
 - PROTECT ALL EXISTING FACILITIES IN-PLACE WITHIN THE WORK AREA LIMITS UNLESS OTHERWISE NOTED ON THE PLANS.
 - REMOVE AND DISPOSE EXISTING CHAIN LINK FENCE AND GATE TO LIMITS SHOWN.
 - CONTRACTOR SHALL EXCAVATE AND REMOVE THE EXISTING 16"-8" DEEP, 5'-FT DIAMETER CONCRETE WELL.
 - CONTRACTOR SHALL CUT THE EXISTING STEEL PIPE 5'-FT BELOW GROUND AND FILL THE REMAINING STEEL PIPE WITH CONCRETE.
 - STEEL PLATE COVERING EXISTING WELL SHALL BE REMOVED AND DELIVERED TO SATCOY MAINTENANCE YARD AT 11201 RIVERBANK DRIVE, VENTURA, CA 93004. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION, LOGISTICS AND DELIVERY OF THE STEEL PLATE.
 - CONSTRUCT 8-INCH THICK CONCRETE DRIVEWAY APPROACH PER SPWPC-110-2 TYPE "A" (W=20'), (Y=5'-8"), (X=4'-0").
 - CONSTRUCT 8-INCH THICK CONCRETE ACCESS ROAD WITH #4 REBAR 12-INCH O.C. EACH WAY WITH EXPANSION JOINT EVERY 10'-FT.
 - INSTALL ALLEY GRATING CATCH BASIN WITH 2 GRATES PER SPWPC-305-3. USE MONOLITHIC CATCH BASIN CONNECTION STEEL REINFORCEMENT PER 308-2, V=4'-INCH, T=8'-INCH, REBAR #4 @ 8'-INCH BOTH WAYS.
 - INSTALL CONCRETE FLARED END SECTIONS PER CALTRANS STANDARD PLAN D94-B, TYPE A.
 - CONSTRUCT PIPE TO PIPE JUNCTION STRUCTURE PER SPWPC 340-2, A=45° B=18° C=30° D1=24° D2=24°.
 - ALL EXISTING EUCALYPTUS TREES, ALONG SOUTH BANK OF SANTA CLARA RIVER FROM STA. 13+00 TO 23+50 SHALL BE REMOVED TO A MINIMUM 3'-FT BELOW GROUND AND DISPOSED OF AT AN APPROVED OFFSITE LOCATION.

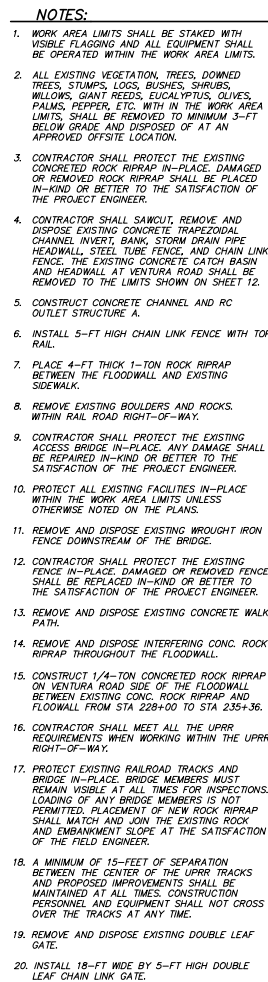


NOTES:

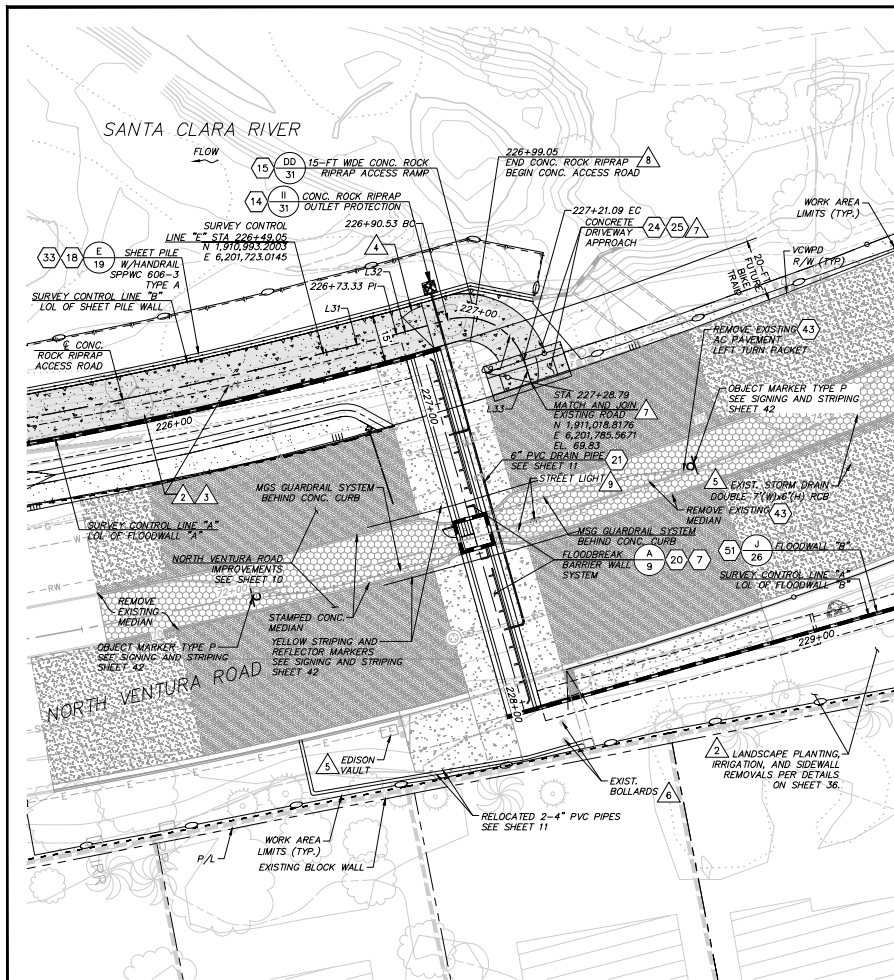
1. WORK AREA LIMITS SHALL BE STAKED WITH VISIBLE FLAGGING AND ALL EQUIPMENT SHALL BE OPERATED WITHIN THE WORK AREA LIMITS.
2. ALL EXISTING VEGETATION INCLUDING BUT NOT LIMITED TO, LIMBS, GRASSES, VINES, TREES, DOWNED TREES, STUMPS, LOGS, BUSHES, SHRUBS, WILLOWS, GIANT REEDS, EUCALYPTUS, OLIVES, PALMS, AND PEPPERS WITHIN THE WORK AREA LIMITS SHALL BE REMOVED TO A MINIMUM 3-FT BELOW GRADE AND DISPOSED OF AT AN APPROVED OFFSITE LOCATION.
3. REMOVE AND DISPOSE OF ALL MATERIALS WITHIN THE WORK AREA LIMITS INCLUDING, BUT NOT LIMITED TO, EXISTING CONCRETE ROCK RIPRAP, BROKEN CONCRETE SLABS, CONCRETE RUBBLE, MASONRY BLOCK WALL, ABANDONED IRRIGATION PIPES, WATER LINES, ELECTRICAL CONDUITS, WOOD AND METAL SCRAP, HOUSEHOLD APPLIANCES, SCRAP CARS, BARR WIRE, EQUIPMENT PARTS, PLASTIC, TRASH, DEBRIS, ETC. WITHIN THE WORK AREA LIMITS TO AN APPROVED OFFSITE LOCATION.
4. REMOVE AND DISPOSE OF INTERFERING PORTIONS OF EXISTING ROCK RIPRAP AND CONC. ROCK RIPRAP BANK PROTECTION. ALL INTERFERING ROCK SHALL BE REMOVED PRIOR TO PLACING SHEET PILE (TYPICAL).
5. INSTALL 15-FT WIDE BY 5-FT HIGH SINGLE LEAF CHAIN LINK GATE.
6. EXISTING HIGH PRESSURE GAS LINE UNDER FLOODWALL GATE AND THE EXISTING HIGH PRESSURE GAS RISER, HAS BEEN RELOCATED OR WILL BE RELOCATED BY THE GAS COMPANY PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COOPERATE AND COORDINATE WITH THE GAS COMPANY.
7. PROTECT ALL EXISTING FACILITIES IN-PLACE WITHIN THE WORK AREA LIMITS UNLESS OTHERWISE NOTED ON THE PLANS. SEE SHEET 11 FOR UTILITY IMPROVEMENTS.
8. REMOVE AND DISPOSE EXISTING BOLLARDS. CONTRACTOR SHALL INSTALL REMOVABLE, STEEL BOLLARDS AT THE SAME LOCATION AFTER COMPLETION OF CONC. WALKWAY.
9. REMOVE AND DISPOSE OF INTERFERING EXISTING CONCRETE SIDEWALK AND WALK PATH, DRIVEWAY, CURB AND GUTTER.
10. CONSTRUCT CONCRETE SIDEWALK AND CONCRETE WALK PATH.
11. REMOVE AND DISPOSE INTERFERING CONC. ROCK RIPRAP.
12. ADJUST SEWER MANHOLE TO FINISHED GRADE. SEE SHEET 10 FOR RIM ELEVATION.
13. ADJUST WATER VALVE AND BLOW-OFFS TO FINISHED GRADE.
14. CONSTRUCT 1/4-TON CONCRETE ROCK RIPRAP ON VENTURA ROAD SIDE OF FLOODWALL BETWEEN EXISTING CONC. ROCK RIPRAP AND FLOODWALL FROM STA 228+00 TO STA 236+90.
15. CONSTRUCT CONCRETE CURB AND GUTTER TO MATCH EXISTING.
16. ALL EXISTING TREES AND LANDSCAPE WITHIN NEW FLOODWALL AND EXISTING BLOCK WALL SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED OFFSITE LOCATION.
17. CONSTRUCT 8" THICK CONCRETE DRIVEWAY PER SPFWC-110-2 TYPE "A" (W=20) (Y=5-8").
18. REMOVE AND DISPOSE OF INTERFERING DRAIN PIPES. INSTALL 4" DRAIN PIPES PER LOCATION SHOWN ON SHEET 11.
19. CONSTRUCT 8" THICK ACCESS DRIVE WITH #4 REBAR 12" O.C. EACH WAY, WITH EXPANSION JOINT EVERY 10-FT.
20. CONTRACTOR SHALL NOTIFY, COORDINATE AND COOPERATE WITH SOUTHERN CALIFORNIA Edison (SCE) EIGHT WEEKS PRIOR TO REMOVAL OF EXISTING STREET LIGHT AND RELOCATE TO STA. 73+00.
21. CONSTRUCT 8-INCH THICK CONCRETE DRIVEWAY PER SPFWC-110-2 TYPE B (W=20), (Y=5-8"), (X=4").
22. ALL EXISTING EUCALYPTUS TREES, ALONG SOUTH BANK OF SANTA CLARA RIVER FROM STA. 13+00 TO STA. 23+50 SHALL BE REMOVED TO A MINIMUM 3-FT BELOW GROUND AND DISPOSED OF AT AN APPROVED OFFSITE LOCATION.



<div> <div>DATE: 8/15/2024</div> <div>PROJECT: 2024-001-SANTALARA RIVER-3 PHASE 2</div> <div>DESIGNER: NZ</div> <div>DRAWN: AL</div> <div>CHECKED: AL</div> <div>DATE: 8/15/2024</div> </div>	<div> <div>DATE: 8/15/2024</div> <div>PROJECT: 2024-001-SANTALARA RIVER-3 PHASE 2</div> <div>DESIGNER: NZ</div> <div>DRAWN: AL</div> <div>CHECKED: AL</div> <div>DATE: 8/15/2024</div> </div>	<div> <div>DATE: 8/15/2024</div> <div>PROJECT: 2024-001-SANTALARA RIVER-3 PHASE 2</div> <div>DESIGNER: NZ</div> <div>DRAWN: AL</div> <div>CHECKED: AL</div> <div>DATE: 8/15/2024</div> </div>	<div> <div>DATE: 8/15/2024</div> <div>PROJECT: 2024-001-SANTALARA RIVER-3 PHASE 2</div> <div>DESIGNER: NZ</div> <div>DRAWN: AL</div> <div>CHECKED: AL</div> <div>DATE: 8/15/2024</div> </div>	<div> <div>DATE: 8/15/2024</div> <div>PROJECT: 2024-001-SANTALARA RIVER-3 PHASE 2</div> <div>DESIGNER: NZ</div> <div>DRAWN: AL</div> <div>CHECKED: AL</div> <div>DATE: 8/15/2024</div> </div>	<div> <div>DATE: 8/15/2024</div> <div>PROJECT: 2024-001-SANTALARA RIVER-3 PHASE 2</div> <div>DESIGNER: NZ</div> <div>DRAWN: AL</div> <div>CHECKED: AL</div> <div>DATE: 8/15/2024</div> </div>	<div> <div>DATE: 8/15/2024</div> <div>PROJECT: 2024-001-SANTALARA RIVER-3 PHASE 2</div> <div>DESIGNER: NZ</div> <div>DRAWN: AL</div> <div>CHECKED: AL</div> <div>DATE: 8/15/2024</div> </div>	<div> <div>DATE: 8/15/2024</div> <div>PROJECT: 2024-001-SANTALARA RIVER-3 PHASE 2</div> <div>DESIGNER: NZ</div> <div>DRAWN: AL</div> <div>CHECKED: AL</div> <div>DATE: 8/15/2024</div> </div>	<div> <div>DATE: 8/15/2024</div> <div>PROJECT: 2024-001-SANTALARA RIVER-3 PHASE 2</div> <div>DESIGNER: NZ</div> <div>DRAWN: AL</div> <div>CHECKED: AL</div> <div>DATE: 8/15/2024</div> </div>	<div> <div>DATE: 8/15/2024</div> <div>PROJECT: 2024-001-SANTALARA RIVER-3 PHASE 2</div> <div>DESIGNER: NZ</div> <div>DRAWN: AL</div> <div>CHECKED: AL</div> <div>DATE: 8/15/2024</div> </div>
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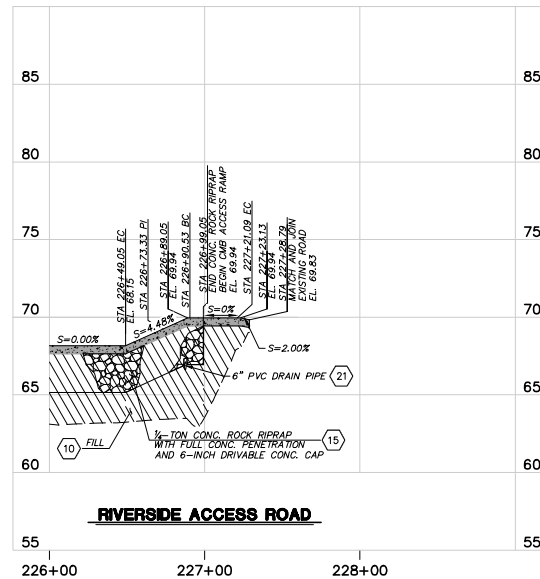


DATE: 7/11/24 10:66:84		K:\PROJECTS\JONES\SANTALARA\REVIEWS\20245_SANTALARA\REVIEWS_2024\PHOTOGRAPH\DESIGN\DRAWINGS\WP_25-05\PLAN\SANTALARA RIVER SCR-3 PHASE 2 06-20-2024\WP25-05.DWG				VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION		SPEC. NO. WP25-05		SANTA CLARA RIVER LEVEE DOWNSTREAM OF UPRR (SCR-3) - PHASE 2		SHEET 6 OF 62	
5 Hudson Center Drive, Suite 500 Santa Ana, CA 92707 Phone: (949) 474-2500 MAA@PWRM.COM		DESIGNED NZ, EC DRAWN AL		8/14/2024 8/15/2024 8/16/2024		8/14/2024 8/15/2024 8/16/2024		PROJ. NO. 82045		PLAN AND PROFILE STA 231+00.00 TO STA 238+28.95		DRAWING NO. WPD-2-388	
INTERNATIONAL 8/1/2024		RCT		8/1/2024		8/1/2024		8/1/2024		8/1/2024		8/1/2024	



**FLOODBREAK WALL LAYOUT
AT NORTH VENTURA ROAD**

SCALE: 1"=20'

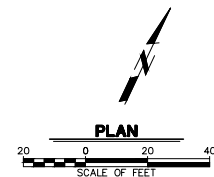


NOTES:

1. WORK AREA LIMITS SHALL BE STAKED WITH VISIBLE FLAGGING AND ALL EQUIPMENT SHALL BE OPERATED WITHIN THE WORK AREA LIMITS.
2. ALL EXISTING VEGETATION, TREES, DOWNED TREES, STUMPS, LOGS, BUSHES, SHRUBS, WILLOWS, REEDS, EUCALYPTUS, OLIVES, PALMS, PEPPER, ETC. WITHIN THE WORK AREA LIMITS SHALL BE REMOVED TO MINIMUM 3'-FT BELOW GRADE AND DISPOSED OF AT AN APPROVED OFFSITE LOCATION.
3. REMOVE AND DISPOSE OF EXISTING ROCK RIPRAP, CONCRETE ROCK RIPRAP, BROKEN CONCRETE SLABS, CONCRETE RUBBLE, MASONRY BLOCK WALL, BARR WIRE FENCE, CHAIN LINK FENCE AND GATE, PIPE RAIL FENCE, CONC. MEDIAN, ABANDONED IRRIGATION PIPES, WATER LINES, ELECTRICAL CONDUITS, WOOD AND METAL SCRAP, HOUSEHOLD APPLIANCES, SCRAP CARS, EQUIPMENT PARTS, PLASTIC, TRASH, DEBRIS ETC. WITHIN THE WORK AREA LIMITS TO AN APPROVED OFFSITE LOCATION.
4. INSTALL 15'-FT WIDE BY 5'-FT HIGH SINGLE LEAF CHAIN LINK FENCE GATE.
5. PROTECT ALL EXISTING FACILITIES IN-PLACE WITHIN THE WORK AREA LIMITS UNLESS OTHERWISE NOTED ON THE PLANS.
6. REMOVE AND DISPOSE EXISTING BOLLARDS. CONTRACTOR SHALL INSTALL REMOVABLE STEEL BOLLARDS AT THE SAME LOCATION AFTER COMPLETION OF CONC. WALKWAY.
7. CONSTRUCT 8" THICK CONCRETE DRIVEWAY APPROACH PER SPFWC-110-2 TYPE 'A' (W=20'), (Y=5'-8").
8. CONSTRUCT 9" THICK CONCRETE ROAD WITH #4 REBAR 12" O.C. EACH WAY, WITH EXPANSION JOINT EVERY 10'-FT.
9. CONTRACTOR SHALL NOTIFY, COORDINATE AND COOPERATE WITH SOUTHERN CALIFORNIA EDISON (SCE) EIGHT WEEKS PRIOR TO REMOVAL OF CONCRETE MEDIAN, SCE WILL DE-ENERGIZE THE EXISTING STREET LIGHT AND RELOCATE TO STA. 73+00.

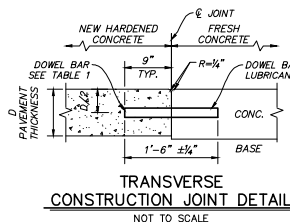
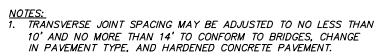
CURVE DATA TABLE				STATION	
NO.	DELTA	RADIUS	LENGTH	TANGENT	
C9	87°32'24"	20.00'	30.56'	19.16'	226+86.56 227+19.20

LINE DATA TABLE		
NO.	BEARING	LENGTH
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L32	N43°49'08"E	17.20'
L33	S48°38'28"E	7.70'

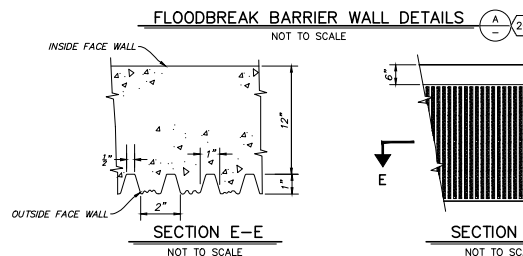


DATE: 8/1/24 10664 PROJECT: ZONE/SANTALARA RIVER/2024/SANTALARA RIVER LEVEE, 2023, PH2/DESIGN/DESIGN/DESIGN/PERCENT PLANS/SANTALARA RIVER SCR-3 PHASE 2 06-20-2024/6628-SP-005/SHEET 8/20		3 Hutton Centre Drive, Suite 500 Santa Ana, CA 92707 Phone: (949) 471-2880 BREAKERINTL.COM		NZ DESIGNED NZ, EC DRAWN AL CHECKED	8/14/2024 DATE 8/15/2024 DATE 8/16/2024 DATE	SPEC. NO. WP25-05 PROJ. NO. 82045	SANTA CLARA RIVER LEVEE DOWNSTREAM OF UPRR (SCR-3) - PHASE 2 MISCELLANEOUS RAMP PROFILE	SHEET 8 OF 62 DRAWING NO. WPD-2-388
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VENTURA ROAD NORTHBOUND GATE	
GATE LENGTH (L) INSIDE IMPER WALL	54'-1"
INSIDE WALL SUPPORT STRUCTURE	53'-9"
GATE HEIGHT (H)	6'-6"
SET DOWN WIDTH (W)	13'-5"
FINISHED GRADE ELEVATION AT HINGE	70.00
TOP OF FOUNDATION ELEVATION	67.67
BOTTOM OF FOUNDATION ELEVATION	65.67



*THE DRILLED HOLE DIAMETER MUST BE $\frac{1}{8}$ " TO $\frac{3}{16}$ "
LARGER THAN THE BAR DIAMETER.



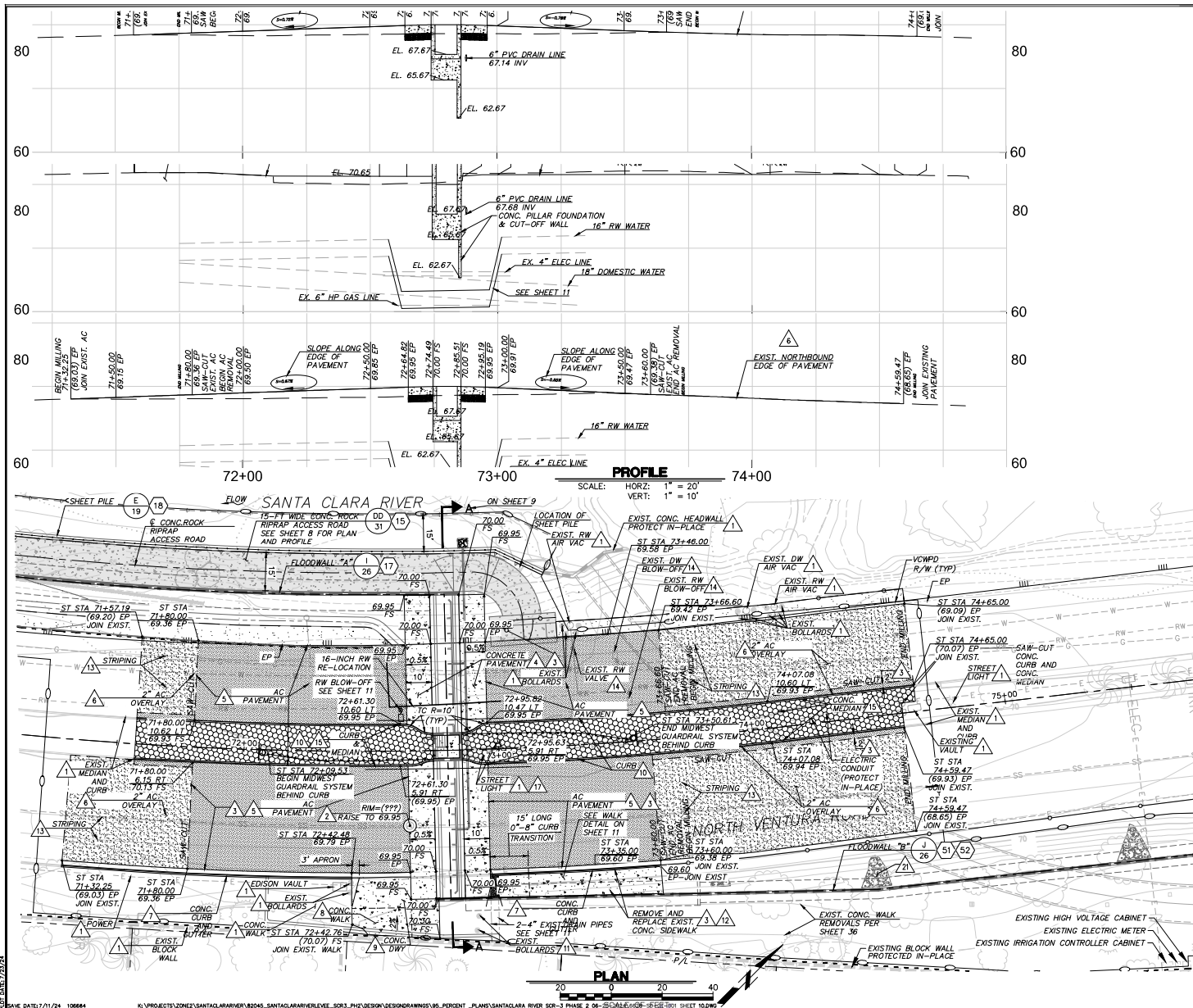
ARCHITECTURAL CONCRETE FINISH FOR OUTER FACE OF THE UTILITY WALLS

D						5 Hutton Centre Drive, Suite 500 Santa Ana, CA 92707 Phone: (949) 473-5695 MBANK@MIDLAND.COM		NZ DESIGNED NZ, EC DRAWN AL		 8/14/2024 DATE	
C								8/15/2024 DATE		 8/16/2024 DATE	
B								8/16/2024 DATE		 8/16/2024 DATE	
A								8/16/2024 DATE		 8/16/2024 DATE	
	REVISION	DESCRIPTION	APP.	DATE	PCF	DATE					

VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SPEC. NO.	WP25-C
PROJ. NO.	82045

SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2
FLOODBREAK BARRIER DETAILS



NOTES:

1. PROTECT ALL EXISTING FACILITIES IN-PLACE WITHIN THE WORK AREA LIMITS UNLESS OTHERWISE NOTED ON THE PLANS. ANY DAMAGE TO THE EXISTING IMPROVEMENTS SHALL BE REPAIRED/REPLACED IN KIND TO THE DISTRICT'S SATISFACTION AT THE CONTRACTOR'S OWN EXPENSE.
2. ADJUST SEWER MANHOLE TO FINISHED GRADE.
3. SAW-CUT, REMOVE AND DISPOSE EXISTING CONCRETE CURB, GUTTER, WALK, DRIVEWAY, AC PAVEMENT AND BASE AND INTERFERING GROUTED RIPRAP.
4. RECOMPACT SUBBASE TO 95% RELATIVE COMPACTION. CONSTRUCT 8" THICK CONCRETE PAVEMENT (560-C-3250) ON 8" AB WITH #4 REBAR 12" O.C. EACH WAY. 16-FT MAX EXPANSION JOINT SPACING. INSTALL TRANSVERSE DOWEL BARS PER DETAIL ON SHEET 9.
5. RECOMPACT BASE TO 95% RELATIVE COMPACTION. MATCH EXISTING AC PAVEMENT THICKNESS PLUS ONE INCH OVER 6-INCH FMB BASE.
6. GRIND EXISTING AC PAVEMENT TO ACHIEVE A MINIMUM OF 2" OVERLAY AND MATCH FINISHED GRADES SHOWN PER PLAN.
7. CONSTRUCT 8" CURB WITH 24" GUTTER PER CITY OF OXNARD STANDARD PLATE 111, TYPE A2-B.
8. CONSTRUCT 8" THICK CONCRETE WALK AND ACCESS DRIVE WITH #4 REBAR 12" O.C. EACH WAY, PER CITY OF OXNARD STANDARD PLATE 112 AND 113.
9. CONSTRUCT 8" THICK CONCRETE DRIVEWAY APPROACH PER SPPWC-110-2 TYPE "B" (W=20'), (Y=3'-8"), (X=4').
10. CONSTRUCT 8" CONCRETE MEDIAN CURB PER CITY OF OXNARD STANDARD PLATE 111, TYPE A1-B.
11. REMOVE AND DISPOSE EXISTING BOLLARDS. CONTRACTOR SHALL INSTALL REMOVABLE STEEL BOLLARDS AT THE SAME LOCATION AFTER COMPLETION OF CONC. WALKWAY.
12. CONSTRUCT 4" THICK CONCRETE SIDEWALK PER CITY OF OXNARD STANDARD PLATE 112 AND 113.
13. REPLACE EXISTING STRIPING IN KIND.
14. ADJUST WATER VALVES AND BLOW-OFFS TO FINISHED GRADE.
15. SAWCUT AND REMOVE INTERFERING PORTIONS OF EXISTING AC, CONC. MEDIAN, AND MEDIAN CONC. CURB. CONSTRUCT CONCRETE MEDIAN TO MATCH EXISTING MEDIAN HEIGHT, PATTERN AND STAMPED CONCRETE COLOR.
16. THE GAS COMPANY WILL RELOCATE THE 6-INCH HIGH PRESSURE GAS LINE AND RISER. CONTRACTOR SHALL NOTIFY, COORDINATE, AND COOPERATE WITH THE GAS COMPANY FOUR WEEKS PRIOR TO EXCAVATION, FOR RELOCATION OF INTERFERING GAS LINE OR GAS RISER.
17. CONTRACTOR SHALL NOTIFY, COORDINATE, AND COOPERATE WITH SOUTHERN CALIFORNIA EDISON (SCE) EIGHT WEEKS PRIOR TO REMOVAL OF CONCRETE MEDIAN, SCE WILL DE-ENERGIZE THE EXISTING STREET LIGHT AND RELOCATE TO STA 73+00.00. CONTRACTOR SHALL REMOVE THE EXISTING STREETLIGHT CONCRETE FOOTING AND CONSTRUCT A NEW FOOTING AT NEW LOCATION.
18. CONTRACTOR SHALL VERIFY ALL ELEVATIONS AT TIE-POINTS AND RE-LOCATIONS WHERE NEW STREET IMPROVEMENT MEET THE EXISTING. PROVIDING SMOOTH TRANSITIONS AND POSITIVE DRAINAGE. IF THE EXISTING GRADE IS DIFFERENT THAN SHOWN HEREON CONTRACTOR SHALL NOTIFY THE ENGINEER, AND SHALL NOT BEGIN WORK UNTIL THE CHANGED CONDITIONS HAVE BEEN INVESTIGATED AND REVISED.
19. CONTRACTOR SHALL COORDINATE LIMITS OF WORK WITH THE CITY OF OXNARD, CITY WILL REMOVE INTERFERING PORTIONS OF WATER SERVICE (VALVE BOX, VALVE, BFP AND PIPING) AS REQUIRED.
20. CONTRACTOR SHALL PLACE FINAL PAVEMENT LIFT ON THE NEW AND OVERLAY AREAS AT THE SAME TIME.
21. REMOVE AND DISPOSE INTERFERING CONCRETE ROCK RIPRAP, AND PLACE NEW CONCRETE RIPRAP BETWEEN REMAINING RIPRAP AND NEW FLOODWALL.

DATE: 7/1/24 10664

K:\PROJECTS\ZONE\SANTALARA\WATER\2024\SANTALARA\WATER\LEV_2024\PH2\DESIGN\DESIGN\DRAWINGS\05_PERCENT_PLANS\SANTALARA RIVER SCR-3 PHASE 2 06-SCALE\608-16-16-100 SHEET 10.DWG

D	REVISION	DESCRIPTION	APP.	DATE
C				
B				
A				

International
 3111 Hutton Centre Drive, Suite 500
 Santa Ana, CA 92707
 Phone: (949) 471-3880
 FAX: (949) 471-3881
 www.international.com

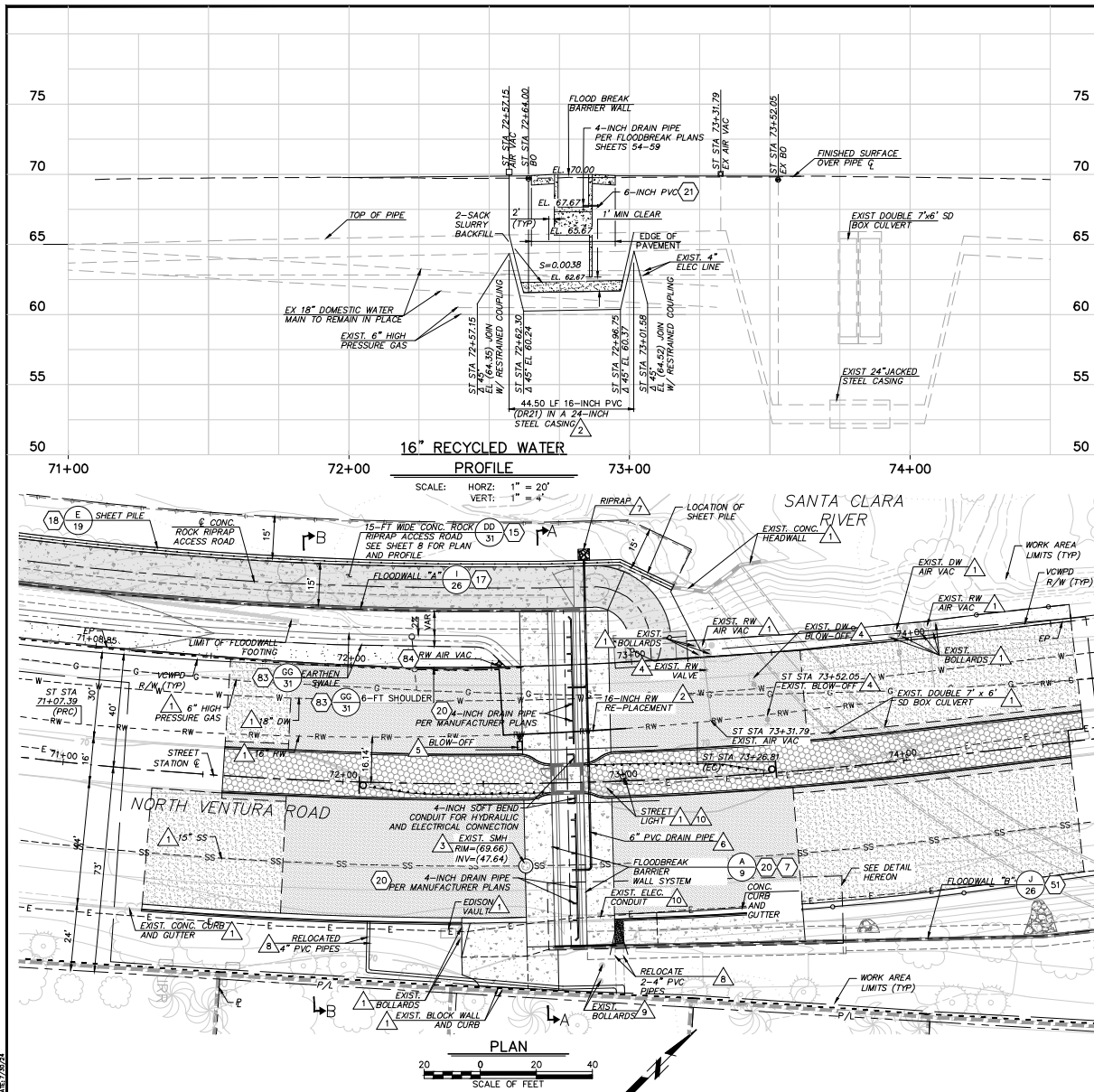
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**VENTURA COUNTY
 PUBLIC WORKS AGENCY
 WATERSHED PROTECTION**

SPEC. NO.
 WP25-05
 PROJ. NO.
 82045

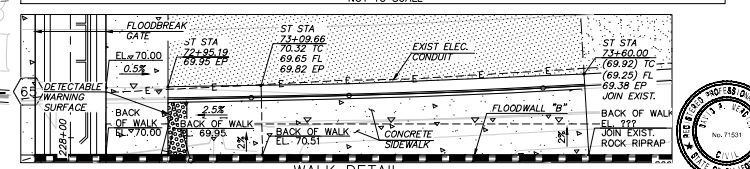
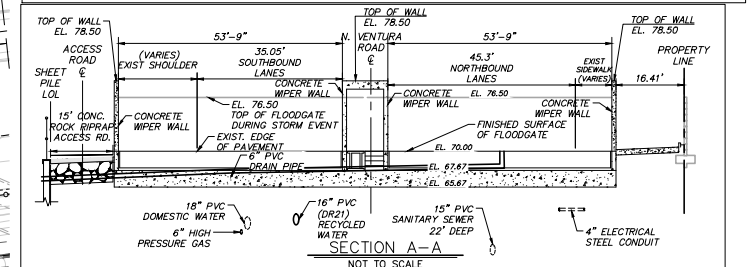
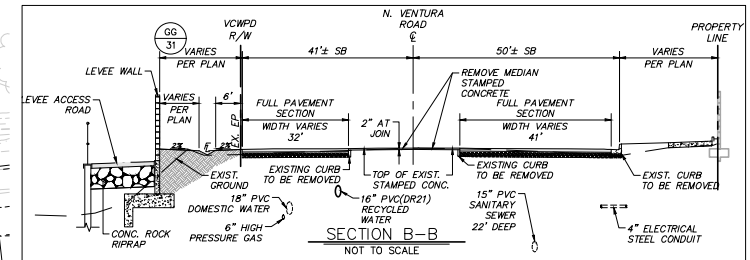
**SANTA CLARA RIVER LEVEE
 DOWNSTREAM OF UPRR (SCR-3) - PHASE 2**
 VENTURA ROAD TRANSITION DETAILS

SHEET 10
 OF 62
 DRAWING NO.
 WPD-2-388

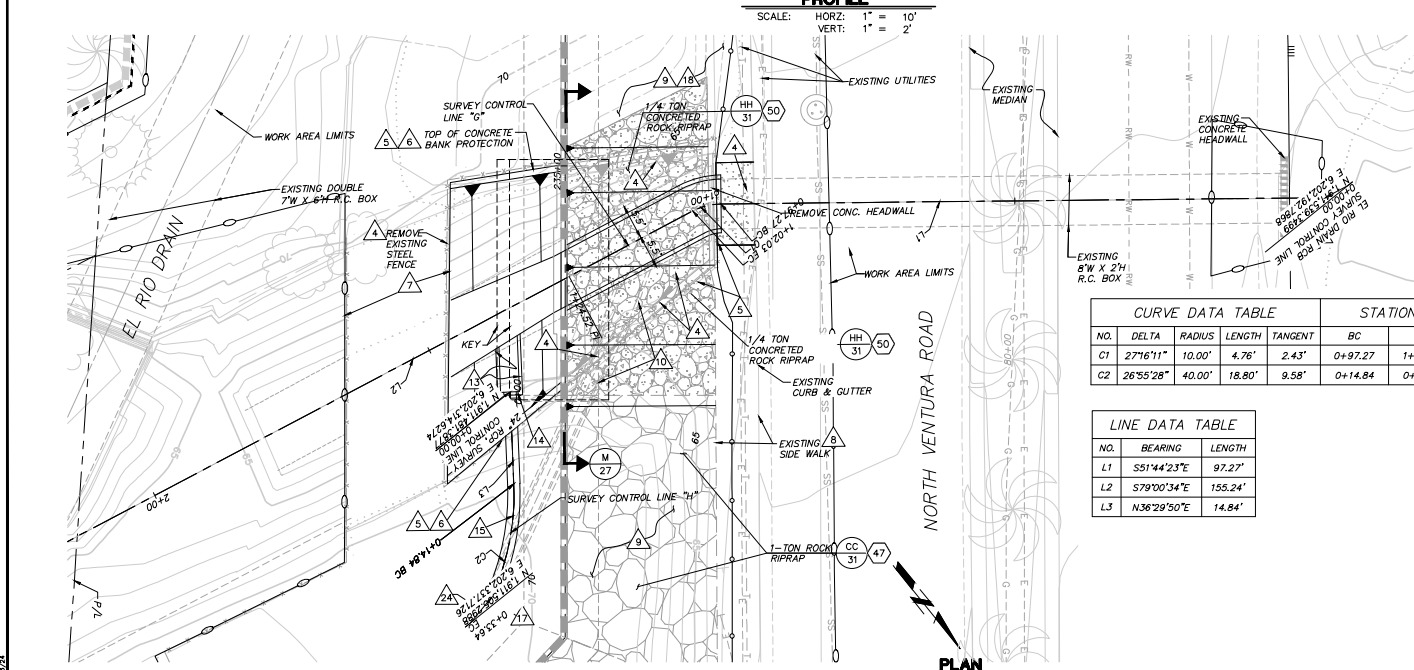
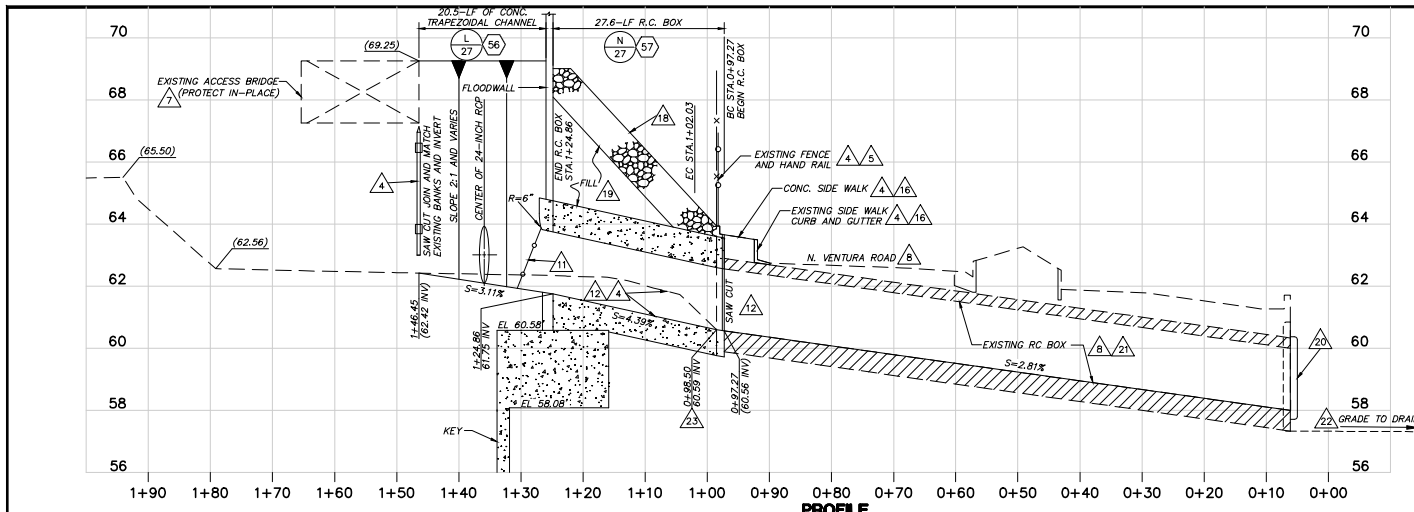


NOTES:

- EXISTING IMPROVEMENTS AND UTILITIES WITHIN THE WORK AREA LIMITS SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. DAMAGED IMPROVEMENTS SHALL BE REPLACED IN KIND TO ITS ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE PROJECT ENGINEER AT CONTRACTOR'S EXPENSE.
- INSTALL 16-INCH PVC (DR 21) RECYCLED WATER LINE PER CITY OF OXNARD SPECIFICATIONS AND TRENCH BACKFILL STANDARD PLATE 602. ALSO PIPELINE TO BE BACKFILLED WITH 2-SACK CEMENT SLURRY PER PROFILE HEREON. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF OXNARD PRIOR TO CONSTRUCTION.
- ADJUST SEWER MANHOLE TO FINISHED GRADE.
- ADJUST WATER VALVES AND BLOW-OFFS TO FINISHED GRADE.
- INSTALL BLOW-OFF ASSEMBLY PER CITY OF OXNARD STANDARD PLATE 307.
- INSTALL 6" PVC DRAIN PIPE PER FLOODBREAK ROADWAY GATE SPECIFICATIONS AND DETAILS. ELEVATIONS PER DETAIL ON SHEET 9.
- CONSTRUCT 4-FT BY 4-FT 1/4-TON CONC. ROCK RIPRAP APRON.
- RELOCATE 4" PVC DRAIN PIPES PER LOCATION SHOWN ON PLAN. CONTRACTOR SHALL VERIFY THE LOCATION AND INVERT ELEVATION OF THE PIPES AT THE CONCRETE CURB ADJACENT TO THE EXISTING PROPERTY LINE WALL. CUT THE EXISTING SIDEWALK OR BORE UNDER. BORE THROUGH EXISTING CONCRETE CURB.
- REMOVE AND DISPOSE EXISTING BOLLARDS. CONTRACTOR SHALL INSTALL REMOVABLE STEEL BOLLARDS AT THE SAME LOCATION AFTER COMPLETION OF CONC. WALKWAY.
- CONTRACTOR SHALL NOTIFY, COORDINATE AND COOPERATE WITH SOUTHERN CALIFORNIA EDISON (SCE) EIGHT WEEKS PRIOR TO REMOVAL OF CONCRETE MEDIAN. SCE WILL DE-ENERGIZE THE EXISTING STREET LIGHT, AND RELOCATE TO STA 73+00.00.
- THE GAS COMPANY HAS RELOCATED THE 6-INCH HIGH PRESSURE GAS LINE AND RISER. CONTRACTOR SHALL NOTIFY, COORDINATE, AND COOPERATE WITH THE GAS COMPANY FOUR WEEKS PRIOR TO EXCAVATION.
- PROVIDE AND INSTALL BLOWOFF PER CITY STANDARD PLATE 703. BLOWOFF PIPE CROSSING WATER LINE TO BE ROUTED UNDER WITH MINIMUM 12" CLEARANCE.
- PROVIDE AND INSTALL AIR VACUUM & AIR RELEASE VALVE PER CITY STANDARD PLATE 702.
- PROVIDE THRUST BLOCK PER DETAIL ON SHEET RW-13.



DATE: 8/15/2024 DRAWING NO.: 82045 SHEET: 11 OF 62 WPD-2-388	PROJECT: VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION PHASE: 2 SHEET: 11 OF 62 WPD-2-388	DESIGNED: [Signature] CHECKED: [Signature] DATE: 8/15/2024	DESIGNED: [Signature] CHECKED: [Signature] DATE: 8/15/2024	DESIGNED: [Signature] CHECKED: [Signature] DATE: 8/15/2024	DESIGNED: [Signature] CHECKED: [Signature] DATE: 8/15/2024	DESIGNED: [Signature] CHECKED: [Signature] DATE: 8/15/2024	DESIGNED: [Signature] CHECKED: [Signature] DATE: 8/15/2024	DESIGNED: [Signature] CHECKED: [Signature] DATE: 8/15/2024	VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION SHEET 11 OF 62 WPD-2-388
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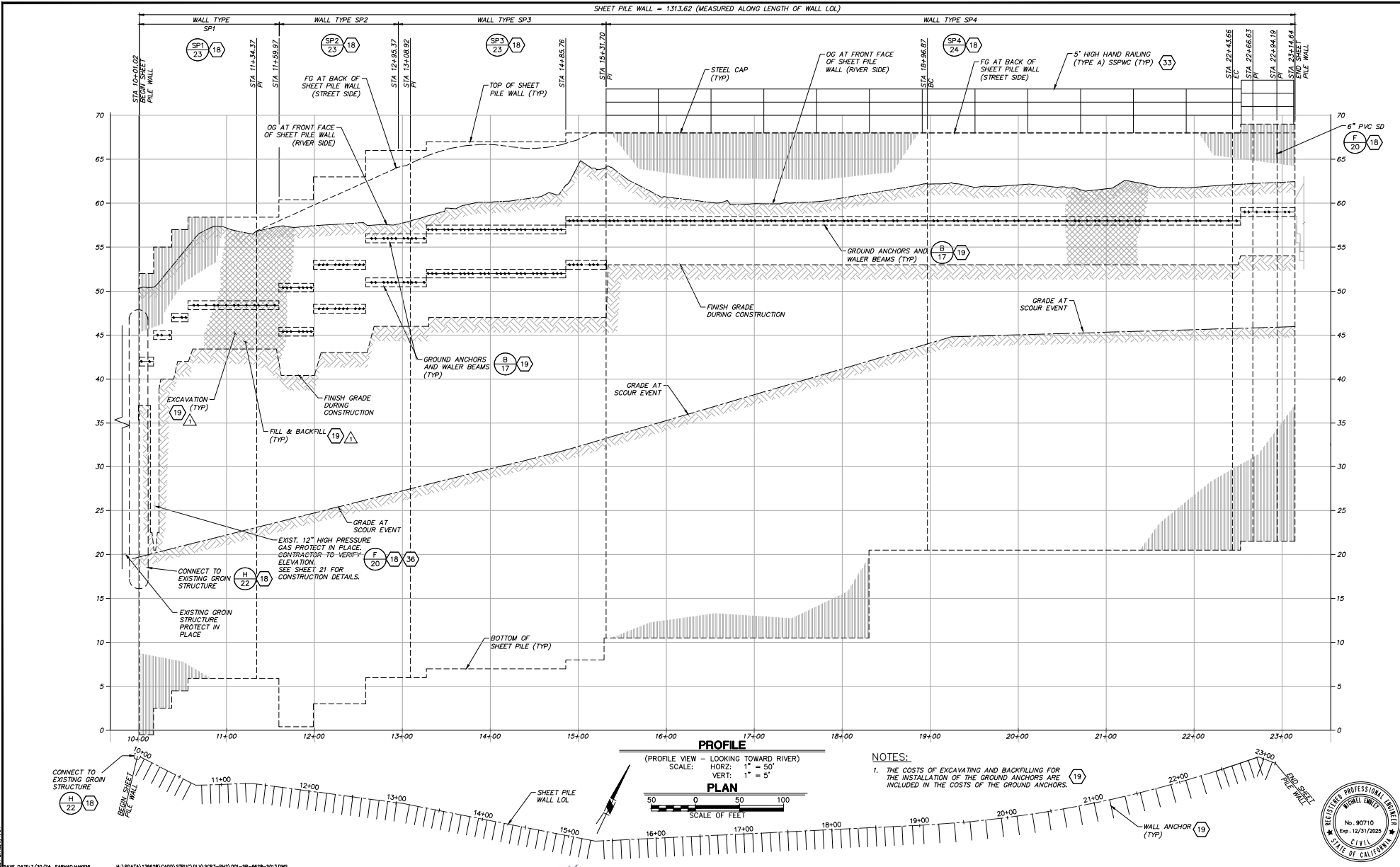


NOTES:

1. WORK AREA LIMITS SHALL BE STAKED WITH VISIBLE FLAGGING AND ALL EQUIPMENT SHALL BE OPERATED WITHIN THE WORK AREA LIMITS.
2. ALL EXISTING VEGETATION, TREES, DOWNED TREES, STUMPS, LOGS, BUSHES, SHRUBS, WILLOWS, REEDS, EUCALYPTUS, OLIVES, PALMS, PEPPER, ETC. WITHIN THE WORK AREA LIMITS SHALL BE REMOVED TO MINIMUM 3-FT BELOW GRADE AND DISPOSED OF AT AN APPROVED OFFSITE LOCATION.
3. CONTRACTOR SHALL NOTIFY THE UTILITY OWNERS AND PROTECT ALL UTILITIES IN-PLACE.
4. CONTRACTOR SHALL SAW-CUT, REMOVE, AND DISPOSE OF THE EXISTING CONCRETE TRAPEZOIDAL CHANNEL INVERT AND BANK, CONC. CATCH BASIN, CONC. HEADWALL, INTERFERING CONC. SIDEWALK, CURB AND GUTTER, STORM DRAIN DOWNSTREAM OF EXISTING BRIDGE, PIPE HEADWALL, STEEL DEBRIS SCREEN FENCE, AND CHAIN LINK FENCE.
5. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING POSTS, RAILS, AND CHAIN LINK FENCE.
6. INSTALL 5-FT HIGH CHAIN LINK FENCE WITH TOP RAIL.
7. CONTRACTOR SHALL PROTECT THE EXISTING ACCESS BRIDGE IN-PLACE, ANY DAMAGE SHALL BE REPAIRED IN-KIND OR BETTER TO THE SATISFACTION OF THE PROJECT ENGINEER, AT CONTRACTOR'S EXPENSE.
8. PROTECT ALL EXISTING FACILITIES IN-PLACE WITHIN THE WORK AREA LIMITS UNLESS OTHERWISE NOTED ON THE PLANS. ANY DAMAGE TO THE EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE PROJECT ENGINEER AT CONTRACTOR'S EXPENSE.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING CONCRETE ROCK RIPRAP INTERFERING WITH CONSTRUCTION OF THE FLOODWALL, R.C. BOX, AND ALL OTHER IMPROVEMENTS.
10. SAW-CUT, REMOVE AND DISPOSE EXISTING HEADWALL AND INTERFERING PORTIONS OF REINFORCED CONCRETE PIPE.
11. INSTALL CATCH BASIN FACE PLATE ASSEMBLY AND PROTECTION BAR PER SPWPC STANDARD PLAN 310-3.
12. CONTRACTOR SHALL SAW-CUT, REMOVE, AND DISPOSE 5-FT OF EXISTING R.C. BOX. THE INVERT SLOPE OF NEW R.C. BOX SHALL BE AN EXTENSION OF THE EXISTING BOX AND PER PROFILE HEREON.
13. CONSTRUCT RC OUTLET STRUCTURE A. 58 XX 33
14. CONSTRUCT RC COLLAR FOR 24-INCH RC PIPE. 58 XX 33
15. CONSTRUCT 24-INCH RC PIPE, ALL PIPE JOINTS SHALL BE MORTARED INSIDE AND OUTSIDE.
16. CONSTRUCT CONCRETE CURB, GUTTER, AND SIDEWALK TO MATCH EXISTING PER CITY OF OXNARD STANDARD INCLUDING 6-INCH CURB AT BACK OF SIDE WALK.
17. SAW-CUT EXISTING RC PIPE OR REMOVE AT EXISTING JOINT. THE ENGINEER SHALL INSPECT THE EXISTING PIPE TO DETERMINE ITS USE. IF DEEMED UNNECESSARY THE CONTRACTOR SHALL PLUG/ABANDON THE REMAINING RC PIPE PER THE DIRECTION OF THE ENGINEER. IF DEEMED NECESSARY THE CONTRACTOR SHALL CLEAN THE RC PIPE TO ALLOW IT TO DRAIN.
18. CONSTRUCT 1/4-TON CONCRETE ROCK RIPRAP PROTECTION.
19. RC BOX SHALL BE BACK FILLED TO MEET THE EXISTING SLOPE GRADES UPSTREAM AND DOWNSTREAM OF EXISTING RC CHANNEL PRIOR TO PLACING CONCRETE ROCK RIPRAP.
20. INSTALL 8-FT W X 2-FT H FLAP GATE AT THE RIVER SIDE FACE OF RC BOX.
21. CONTRACTOR SHALL REMOVE AND DISPOSE EXISTING DEBRIS AND SEDIMENT FROM INSIDE OF THE EXISTING R.C. BOX.
22. CONTRACTOR SHALL GRADE THE CHANNEL IN FRONT OF EXISTING R.C. BOX WITHIN SANTA CLARA RIVER FOR A DISTANCE OF APPROXIMATELY 200 FT TO ALLOW THE EXISTING R.C. BOX TO DRAIN.
23. THE CONTRACTOR SHALL VERIFY THE ELEVATION AND ADJUST IN THE FIELD.
24. CONTRACTOR SHALL SEARCH AND INVESTIGATE THE ORIGIN AND SOURCES OF THE EXISTING 24-INCH RCP AND REPORT BACK TO THE PROJECT MANAGER FOR ADDITIONAL DESIGN PURPOSES.

CURVE DATA TABLE					STATION	
NO.	DELTA	RADIUS	LENGTH	TANGENT	BC	EC
C1	27°16'11"	10.00'	4.76'	2.43'	0+97.27	1+02.03
C2	26°55'28"	40.00'	18.80'	9.58'	0+14.84	0+33.64

LINE DATA TABLE		
NO.	BEARING	LENGTH
L1	S51°44'23"E	97.27'
L2	S79°00'34"E	155.24'
L3	N36°28'50"E	14.84'



DATE: 8/1/2024	DESIGNED: ME/LN	DATE: 8/14/2024	SPEC. NO. WP25-05
DRAWN: CS	CHECKED: CS	DATE: 8/15/2024	PROJ. NO. B2045
DATE: 8/16/2024			

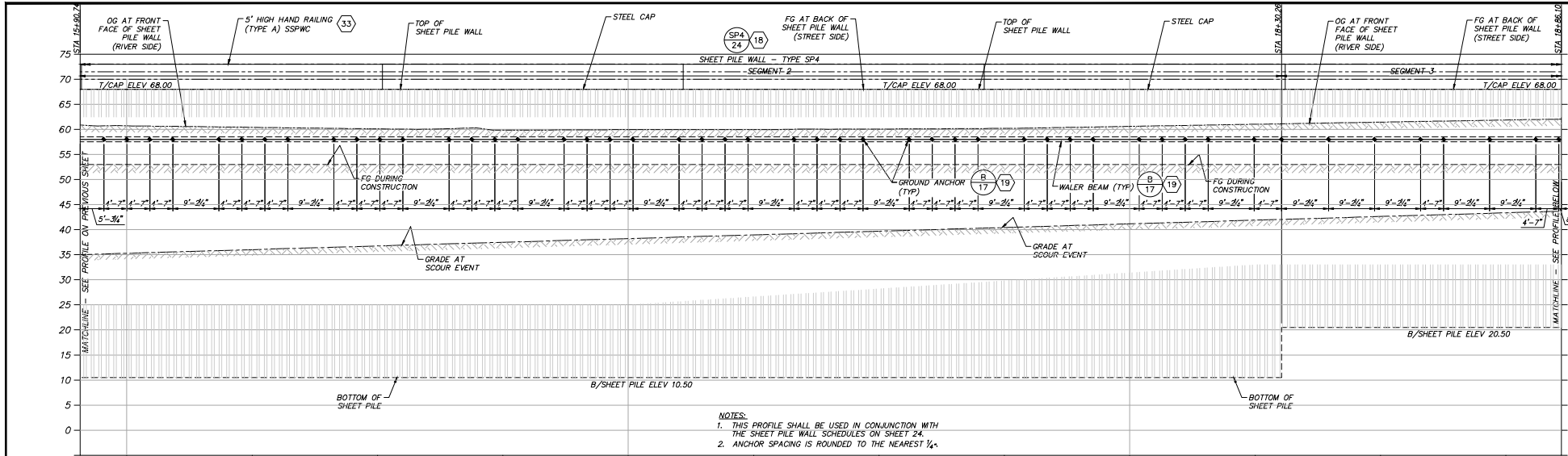
VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION

SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2
SHEET PILE GENERAL PLAN AND PROFILE

SHEET 13
OF 62
DRAWING NO. WPD-2-388

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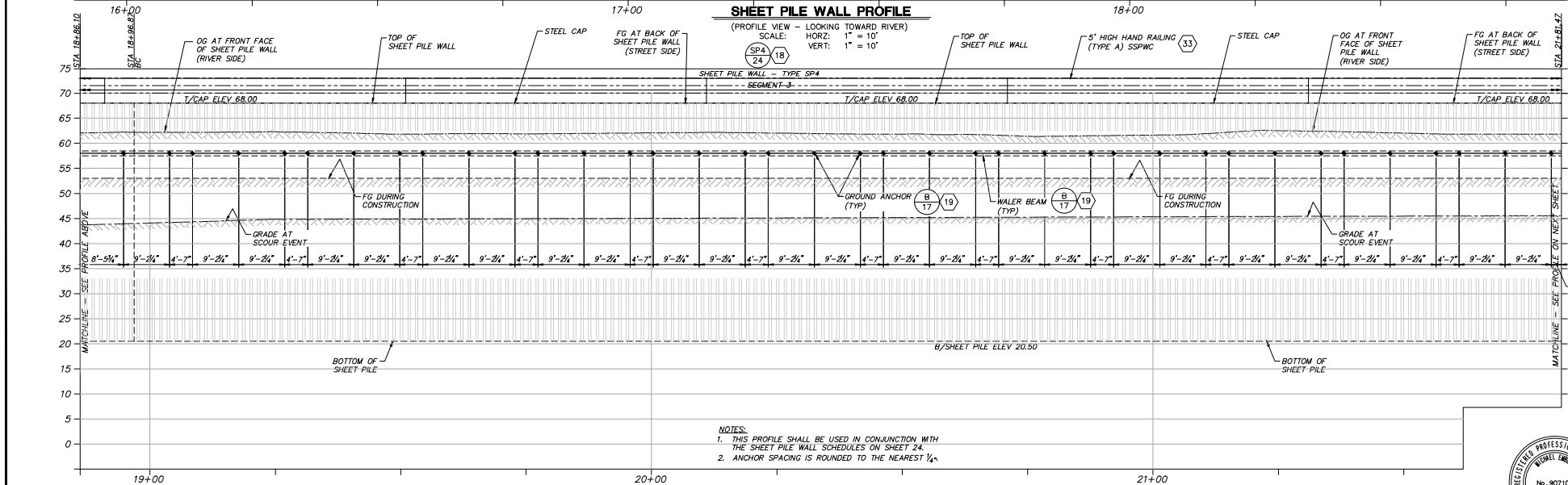
- NOTES:
1. THIS PROFILE SHALL BE USED IN CONJUNCTION WITH THE SHEET PILE WALL SCHEDULES ON SHEET 24.
 2. ANCHOR SPACING IS ROUNDED TO THE NEAREST 1/4".

SHEET PILE WALL PROFILE

(PROFILE VIEW - LOOKING TOWARD RIVER)

SCALE: HORIZ: 1" = 10'

VERT: 1" = 10'



- NOTES:
1. THIS PROFILE SHALL BE USED IN CONJUNCTION WITH THE SHEET PILE WALL SCHEDULES ON SHEET 24.
 2. ANCHOR SPACING IS ROUNDED TO THE NEAREST 1/4".

SHEET PILE WALL PROFILE

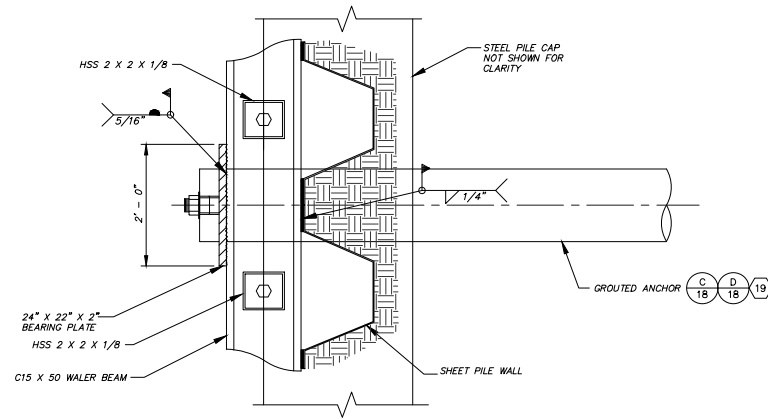
(PROFILE VIEW - LOOKING TOWARD RIVER)

SCALE: HORIZ: 1" = 10'

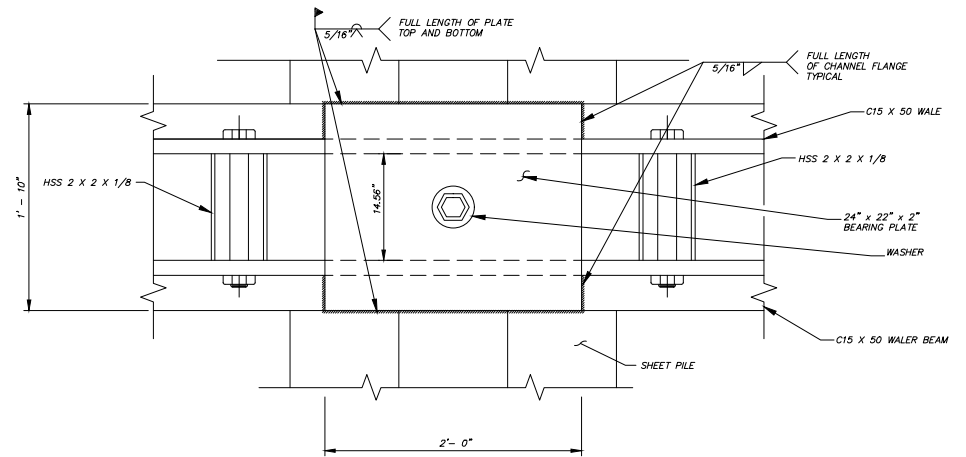
VERT: 1" = 10'

DATE: 7/20/24	DESIGNED: ME/LN	DATE: 8/14/2024	VENTURA COUNTY PUBLIC WORKS AGENCY WATERSHED PROTECTION	SPEC. NO. WP25-05	SANTA CLARA RIVER LEVEE DOWNSTREAM OF UPRR (SCR-3) - PHASE 2	SHEET: 15
REVISION	CHECKED: CS	DATE: 8/15/2024		PROJ. NO. B2045		OF: 62
DESCRIPTION	DATE: 8/16/2024	DATE:		DRAWING NO.		
APP. DATE	DATE	DATE		WPD-2-388		

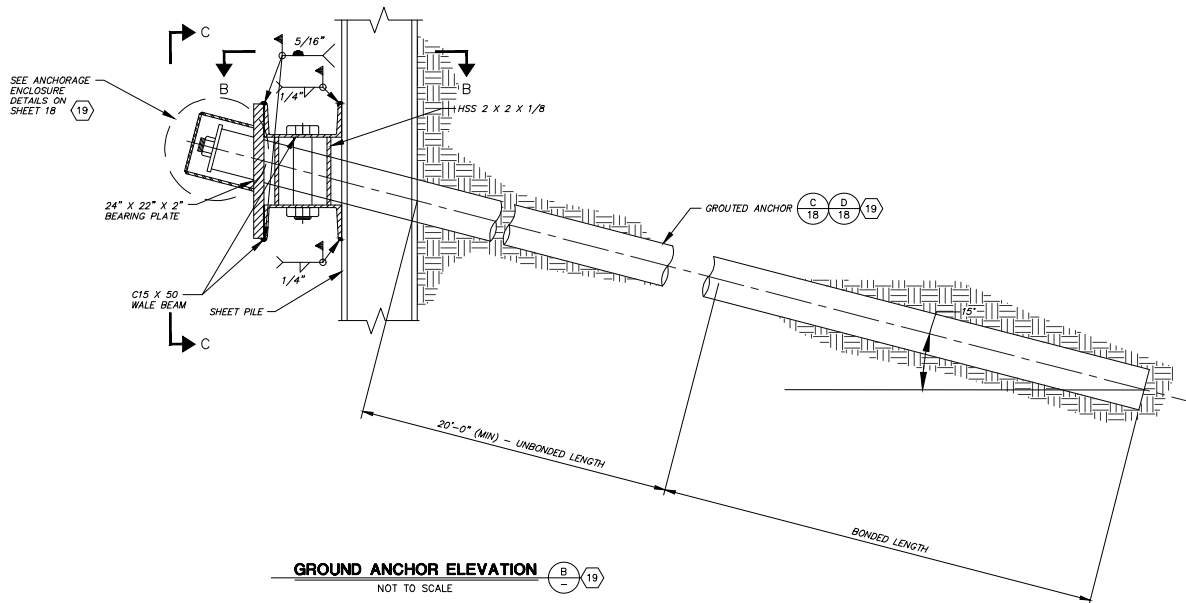




TYPICAL ANCHOR CONNECTION - SECTION B-B
NOT TO SCALE



SECTION C-C
NOT TO SCALE



GROUND ANCHOR ELEVATION
NOT TO SCALE

SHEET PILE GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS AND EXISTING CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. ALL SHEET PILE SECTION NAMES AND STRUCTURAL PROPERTIES ARE REFERENCED FROM SKYLINE STEEL STANDARD SECTIONS:

SKYLINE STEEL, LLC
8 WOODHOLLOW ROAD
PARSIPPANY, NJ 07054
PHONE: 973-428-6100
WWW.SKYLINSTEEL.COM
3. CONTRACTOR SHALL PROVIDE THE REQUIRED SKYLINE STEEL STRUCTURAL SHEETPILE SECTIONS, OR ENGINEER APPROVED EQUAL.
4. ALL SHEET PILE STEEL SHALL BE GRADE 50 OR BETTER.



SAVE DATE: 3/21/24 MAKENZIE.DONNELL H:\PDATA\136628\CAD\STRUCTURE\1303-PHE\05-SP-6628-5017.DWG

REVISION	DESCRIPTION	APP.	DATE
D			
C			
B			
A			

Michael Bailey
INTERNATIONAL
Michael Bailey
R.C.E.
8/1/2024

5 Hutton Centre Drive, Suite 500
Santa Ana, CA 92707
Phone: (949) 471-5555
PBAKERINTL.COM

DESIGNED	ME/LN	8/14/2024
DRAWN	CS	8/15/2024
CHECKED	CS	8/16/2024

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

SPEC. NO.	WP25-05
PROJ. NO.	82045

**SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2**
SHEET PILE GENERAL NOTES, WALE BEAM, AND ANCHOR
DETAILS

SHEET	17
OF	62
DRAWING NO.	WPD-2-388

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GENERAL NOTES

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
4TH EDITION WITH CALIFORNIA AMENDMENTS.

PRESTRESSING STEEL:

BARS = ASTM DESIGNATION: A722 TYPE II (150 KSI)

STRAND TENDONS-ASTM DESIGNATION: A416
(270 KSI LOW RELAXATION STEEL)

FTL = FACTORED TEST LOAD PER ANCHOR (KIPS)

FPV = MINIMUM TENSILE STRENGTH OF PRESTRESSING STEEL

AS = MINIMUM CROSS SECTIONAL AREA OF PRESTRESSING
STEEL IN GROUND ANCHOR (SQUARE INCH)

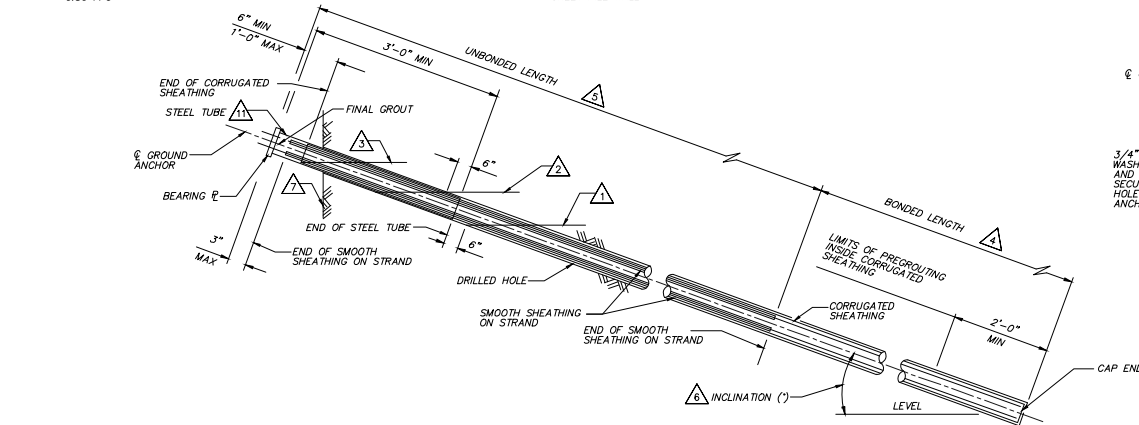
AS(MIN) = $\frac{1.0 \text{ FTL}}{0.75 \text{ FPV}}$ (STRANDS)

AS(MIN) = $\frac{1.0 \text{ FTL}}{0.80 \text{ FPV}}$ (BARS)

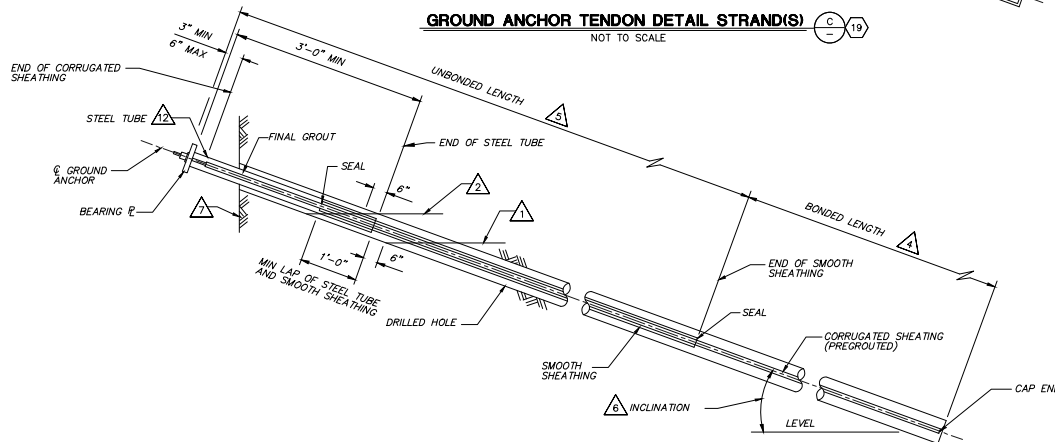
NOTES:

1. LEVEL OF INITIAL GROUTING FOR
DRILLED HOLE 6" IN DIAMETER OR
SMALLER.
2. LEVEL OF SECONDARY GROUTING.
3. LEVEL OF INITIAL GROUTING INSIDE
CORRUGATED SHEATHING.
4. BONDED LENGTH SHALL BE
DETERMINED BY THE CONTRACTOR.
BONDED LENGTH SHALL BE A
MINIMUM OF 20'-0".
5. FOR UNBONDED LENGTH, SEE
SHEET 17 (20 FT MIN.)
6. INCLINATION SHALL BE 15 DEGREES,
SEE SHEET 17.
7. FACE OF WALL EXCAVATION AND
SHEET PILE WALL.

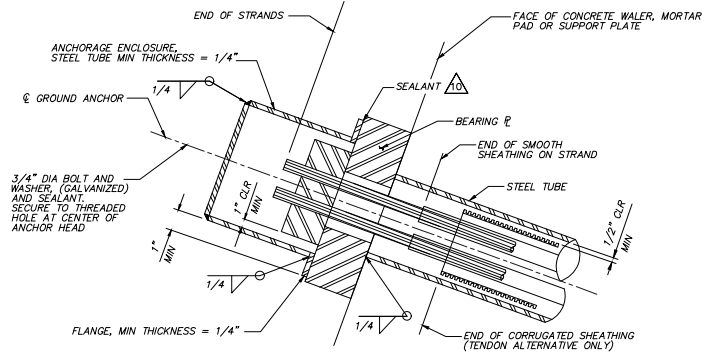
8. ANCHORAGE ENCLOSURE SHALL ONLY BE USED WHEN ANCHOR HEAD ASSEMBLY
IS NOT ENCLOSED IN CONCRETE.
9. ANCHORAGE ENCLOSURE SHALL HAVE PROVISIONS TO ALLOW INJECTING GROUT
AT LOW END AND VENTING AT HIGH END. GALVANIZE AFTER FABRICATION.
10. SILICONE SEALANT TO COVER FULL WIDTH OF FLANGE.
11. STEEL TUBE (MIN THICKNESS = 1/4") WELDED TO BEARING PLATE. GALVANIZE
ASSEMBLY AFTER FABRICATION.
12. STEEL TUBE WELDED TO BEARING PLATE. INSIDE DIAMETER OF STEEL TUBE (MIN
THICKNESS = 1/4") TO BE 1" GREATER THAN OUTSIDE DIAMETER OF SMOOTH SHEATHING.
13. GALVANIZE ASSEMBLY AFTER FABRICATION.
14. FOR OTHER WALL DETAILS, SEE PROJECT PLANS.



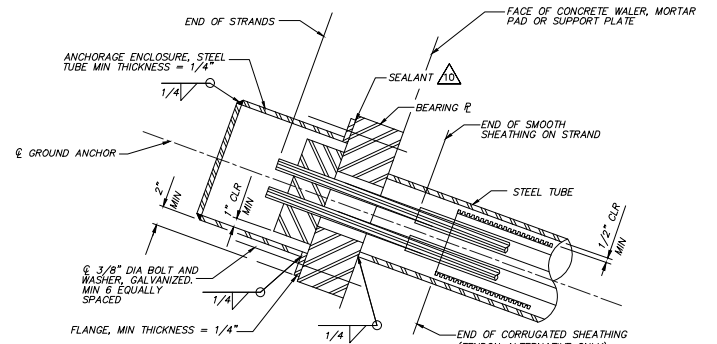
GROUND ANCHOR TENDON DETAIL STRAND(S)
NOT TO SCALE



GROUND ANCHOR TENDON DETAIL BARS
NOT TO SCALE



ANCHORAGE ENCLOSURE DETAILS - ALTERNATIVE X
NOT TO SCALE



ANCHORAGE ENCLOSURE DETAILS - ALTERNATIVE Y
NOT TO SCALE

DATE: 8/1/24
DRAWN: MARENZ, COONELL
IN: P:\DATA\13828\13828\CA\STRUCTURE\13828-SP-002-018.DWG

REVISION	DESCRIPTION	APP.	DATE
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Michael Bailey
INTERNATIONAL
8/1/2024
R.G.E.

DESIGNED	ME/LN	8/14/2024
CHECKED	CS	8/15/2024
DATE	8/16/2024	

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

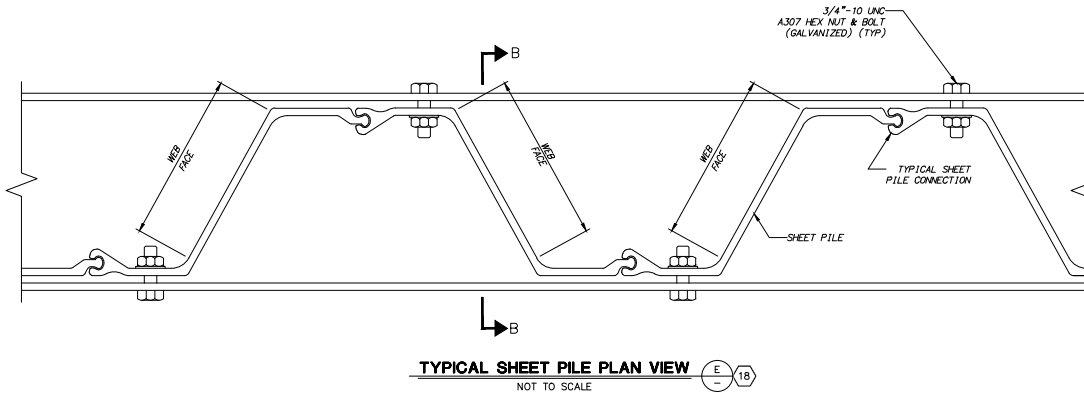
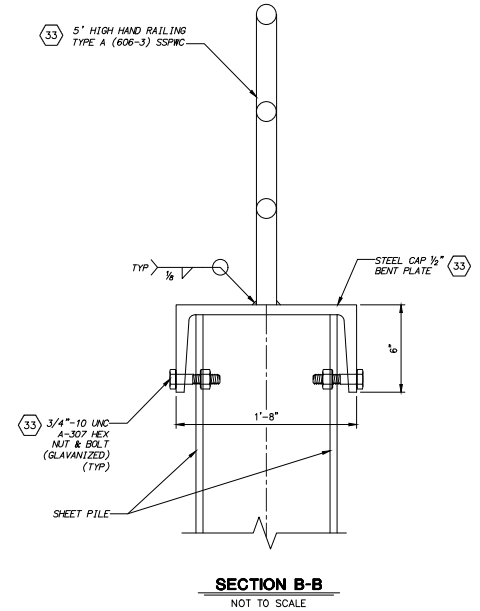
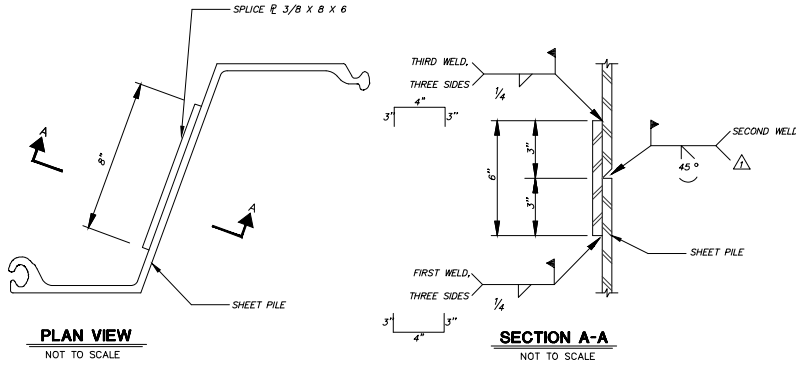
SPEC. NO.	WP25-05
PROJ. NO.	82045

**SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2**
SHEET PILE ANCHOR DETAILS



SHEET	18
OF	62
DRAWING NO.	WPD-2-388

NOTES:
1. GROOVE WELD SHALL EXTEND THE FULL LENGTH OF THE SHEET PILE WEB AND FLANGES EXCLUDING THE INTERLOCKS.



DATE: 8/16/24

SAVE DATE: 8/16/24, MAKE: 8/16/24, H:\PDATA\136628\CAD\STRUCTURE\SP-003-PHE\007-SP-003-018.DWG

REVISION	DESCRIPTION	APP.	DATE
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Michael Bailey
INTERNATIONAL
Michael Bailey
8/1/2024
DATE

ME/LN
DESIGNED CS
DRAWN CS
CHECKED
8/14/2024
DATE
8/15/2024
DATE
8/16/2024
DATE

Michael Bailey
DISTRICT PROJECT MANAGER
8/14/2024
DATE
8/15/2024
DATE
8/16/2024
DATE

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

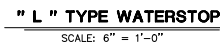
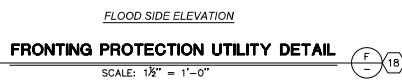
SPEC. NO.
WP25-05
PROJ. NO.
82045

**SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2**
SHEET PILE DETAILS NO. 1

SHEET 19
OF 62
DRAWING NO.
WPD-2-388

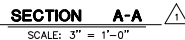


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SECTION THRU SHEETPILE WALL C-C

NOT TO SCALE



1. SET SEAL FOR A MINIMUM OF A 1/4" INITIAL DEFLECTION.
2. THIS DETAIL IS BASED ON THE NEW WALL FACE BEING PERPENDICULAR TO THE PIPE.
3. GAS AND PETROLEUM PIPELINES MAY REQUIRE THAT A 1.5" MINIMUM CONCRETE COATING BE APPLIED BEFORE THE SLEEVE IS INSTALLED.
4. ALL FLANGE MATERIAL ATTACHED TO THE SHEET PILE SHALL BE STEEL.
5. ALL MATERIAL FOR FRONTING PROTECTION SHALL BE ALUMINUM UNLESS OTHERWISE NOTED.
6. ALL STRUCTURAL ALUMINUM PLATES SHALL BE ASTM B 209, TYPE 1061-16.
7. ALL CORROSION-RESISTANT STEEL (C.R.S.) SHALL BE TYPE 316.
8. WELDS SHOWN ARE TYPICAL FOR SIMILAR JOINTS AND ALL WELDS ON WALL SIDE OF FACE PLATE SHALL BE FLUSH WITH BASE METAL.
9. AFTER THE TWO FRAMES ARE LOOSELY CLAMPED TO THE PIPE, THE 1/4" ASSEMBLY SHALL BE PUSHED AGAINST THE WALL, SETTING THE SEALS, THEN TIGHTEN CLAMP PLATES TO CLOSE THE 1/4" GAP.
10. UPON COMPLETION OF THE ASSEMBLY, APPLY A 1/4" ADHESIVE TO THE INSIDE SURFACE (100% OR EQUAL) TO ALL NUT AND BOLT JUNCTURES.



SAVE DATE: 1/17/24		MAKENZIE, O'DONNELL		H:\PDATA\136628\CAD00\STRUCT\DLV\SCR3-PH2\008-SP-6628-SO20.DWG	
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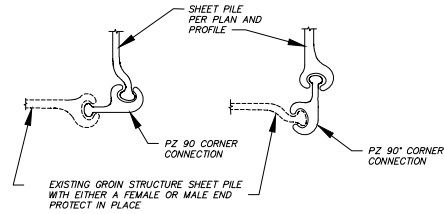
Michael Baker
5 Hutton Centre Drive, Suite 500
Santa Ana, CA 92707
Phone: (949) 472-3505
MBAKERINTL.COM

INTERNATIONAL
Michael Embrey
R.C.F. 8/1/2024
DATE

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

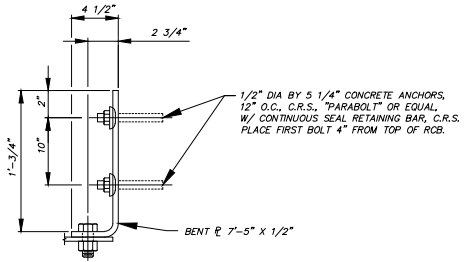
**SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2**
SHEET PILE DETAILS NO. 2

SHEET 20
OF 62
DRAWING NO.
WPD-2-388

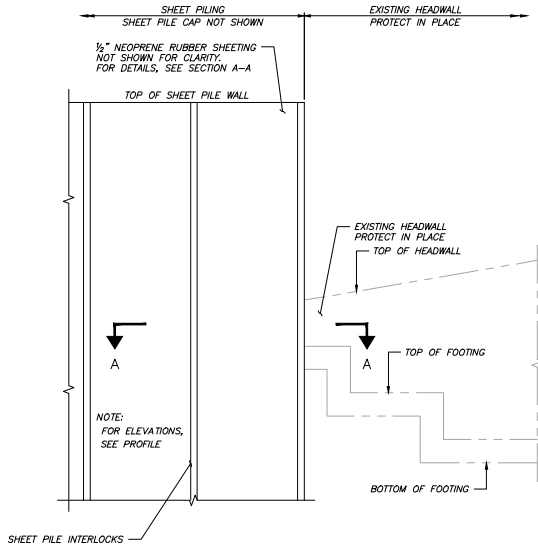


SHEET PILE TO EXISTING GROIN STRUCTURE CONNECTION
NOT TO SCALE

(H) 18

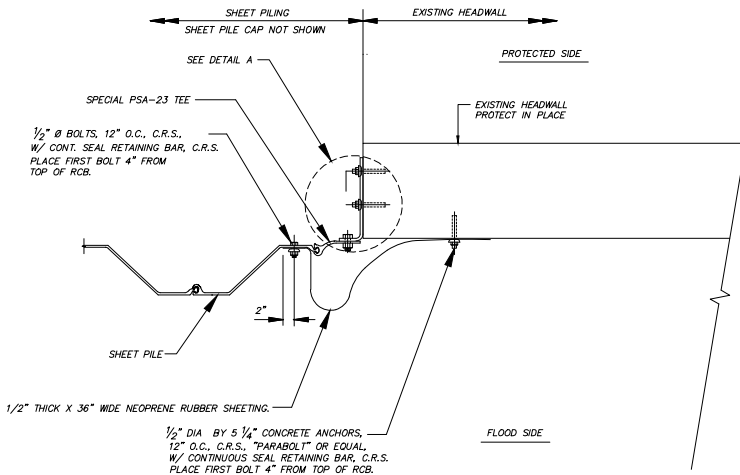


DETAIL A
NOT TO SCALE



SHEET PILE TO EXISTING REINFORCED CONCRETE BOX (RCB) CULVERT
SCALE: 3/8" = 1'-0"

(C) 18



SECTION A-A
NOT TO SCALE



SAVE DATE: 1/11/24 MAKENZIE.DONNELL H:\PDATA\136628\CAD\STRUCTURE\136628-PHE\10-SP-6628-5022.DWG

REVISION	DESCRIPTION	APP.	DATE
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Michael Embrey
INTERNATIONAL
Michael Embrey
R.C.E.
8/1/2024

5 Hutton Centre Drive, Suite 500
Santa Ana, CA 92707
Phone: (949) 471-5555
EMBAKERINTL.COM

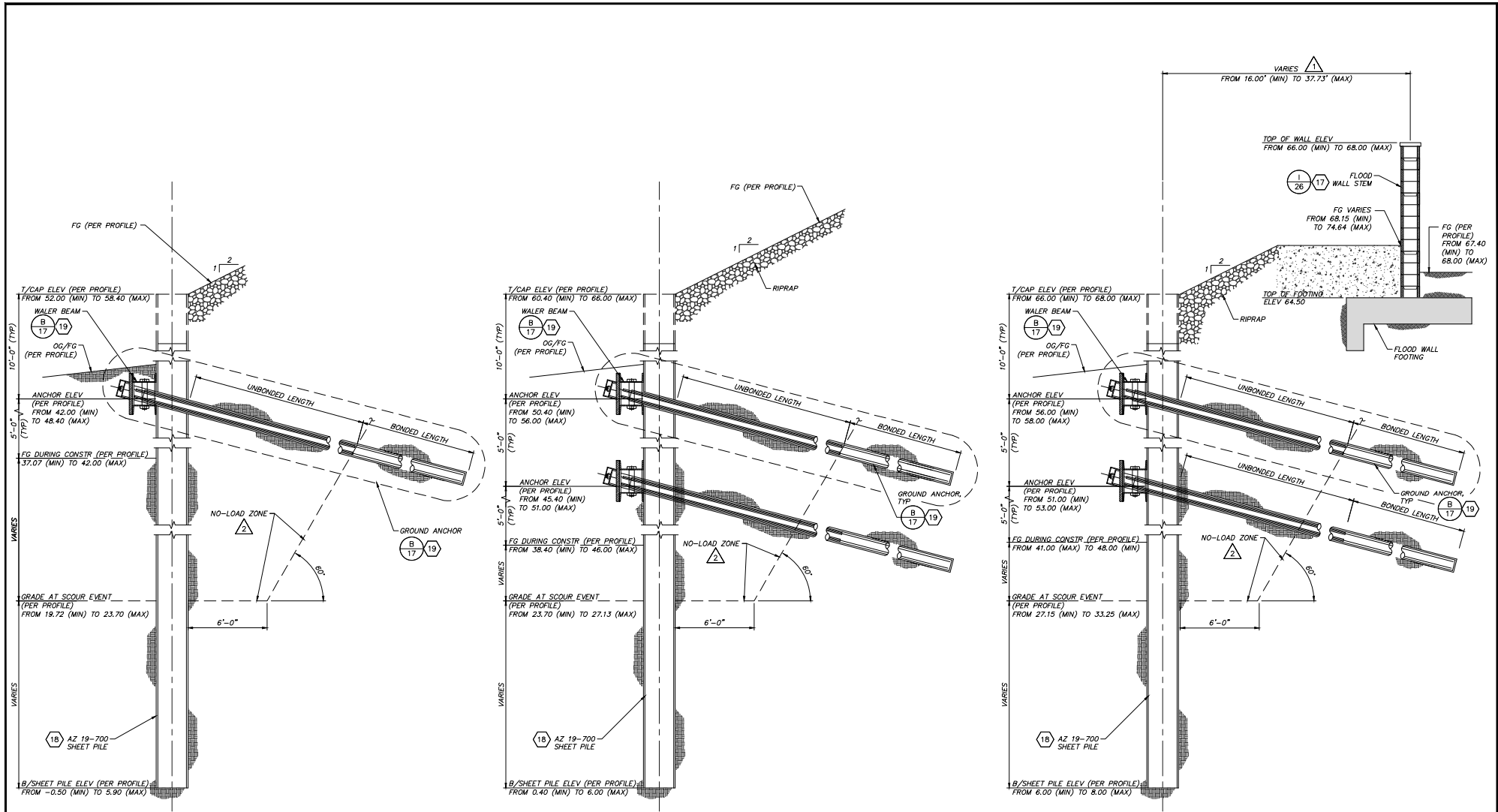
DESIGNED	ME/LN	8/14/2024	DATE
DRAWN	CS	8/15/2024	DATE
CHECKED	CS	8/16/2024	DATE

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

SPEC. NO.	WP25-05
PROJ. NO.	82045

**SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2**
SHEET PILE DETAILS NO. 4

SHEET	22
OF	62
DRAWING NO.	WPD-2-388



TYPE SP1 SHEET PILE WALL- TYPICAL SECTION SP1

LOOKING UPSTREAM
SCALE: 3/8"=1'-0"

TYPE SP2 SHEET PILE WALL- TYPICAL SECTION SP2

LOOKING UPSTREAM
SCALE: 3/8"=1'-0"

TYPE SP3 SHEET PILE WALL- TYPICAL SECTION SP3

LOOKING UPSTREAM
SCALE: 3/8"=1'-0"

NOTES:

- SEE "FLOODWALL PLAN AND PROFILE STA 217+00 TO STA 236+90" AND "SHEET PILE PROFILE STA 10+00.00 TO STA 15+77.16" SHEETS.
- ANCHORS SHALL NOT BE BONDED IN THE NO-LOAD ZONE.



DATE: 8/1/24, DRAWN: MCKENZIE, DOONELL, FILE: P:\DATA\136628\CADD\STRUCTURE\136628-PHE\011-SP-6628-5023.DWG

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Michael Embrey
INTERNATIONAL
Michael Embrey
R.G.E.
8/1/2024

ME/LN
DESIGNED CS
DRAWN CS
CHECKED
DATE 8/14/2024
DATE 8/15/2024
DATE 8/16/2024
DATE

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

SPEC. NO.
WP25-05
PROJ. NO.
B2045

**SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2**
SHEET PILE ANCHOR SECTIONS

SHEET 23
OF 62
DRAWING NO.
WPD-2-388

136628 (136628) CADD/Struct/136628-PHE\011-SP-6628-5023.dwg, Printed: Aug 01, 2024 - 4:04pm

GENERAL NOTES

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
6TH EDITION WITH CALIFORNIA AMENDMENTS.

PRESTRESSING STEEL:
BARS = ASTM DESIGNATION: A722 TYPE II (150 KSI)

STRAND TENDONS-ASTM DESIGNATION: A416
(270 KSI LOW RELAXION STEEL)

FTL = FACTORED TEST LOAD PER ANCHOR (KIPS)

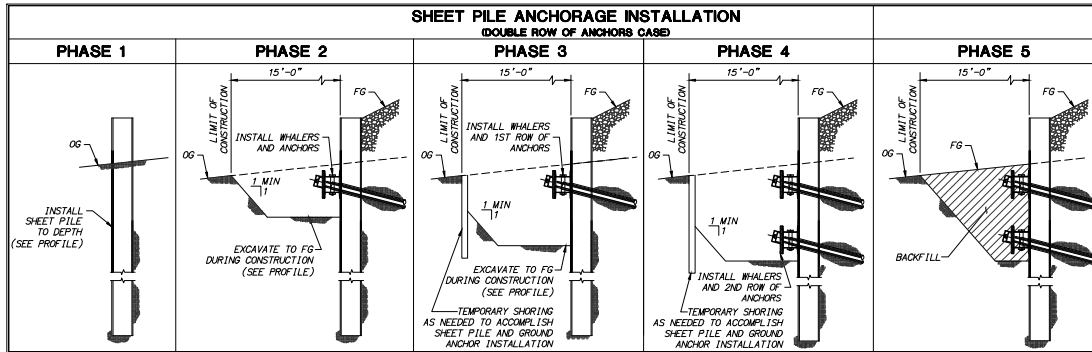
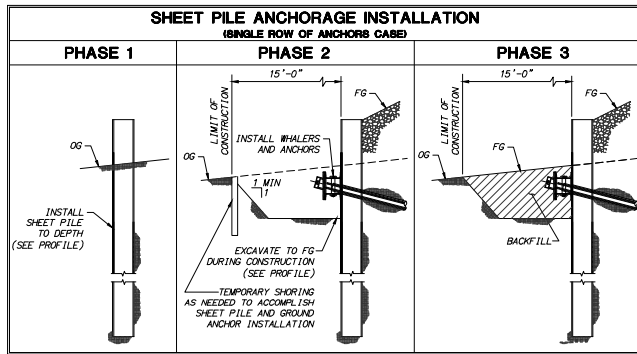
FPU = MINIMUM TENSIL STRENGTH OF PRESTRESSING STEEL

AS = MINIMUM CROSS SECTIONAL AREA OF PRESTRESSING STEEL IN GROUND ANCHOR (SQUARE INCH)

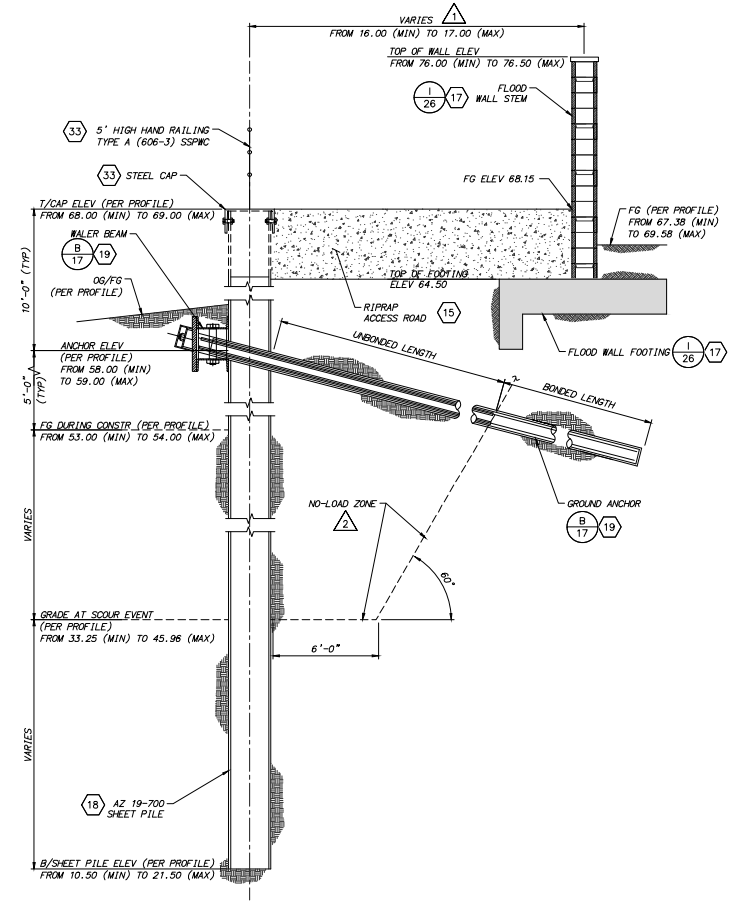
AS(MIN) = 1.0 FTL (STRANDS)
0.75 FPU

AS(MIN) = 1.0 FTL (BARS)
0.80 FPU

Station		Anchor 1						Anchor 2					
Beginning	End	Elevation	FDL	FTL	LL	Lub	Elevation	FDL	FTL	LL	Lub		
10+01.02	10+17.24	42	229	230	153	20	—	—	—	—	—	—	—
10+17.24	10+37.91	45	229	230	153	21	—	—	—	—	—	—	—
10+37.91	10+56.29	47	229	230	153	22	—	—	—	—	—	—	—
10+56.29	11+59.64	48.4	229	230	153	23	—	—	—	—	—	—	—
11+59.64	11+98.68	50.4	134	135	89	23	45.4	181	185	121	20	—	—
11+98.68	12+58.39	53	134	135	89	24	48	217	220	146	21	—	—
12+58.39	12+95.37	56	134	135	89	25	51	217	220	146	22	—	—
12+95.37	13+27.29	56	134	135	89	25	51	217	220	146	22	—	—
13+27.29	14+85.76	57	134	135	89	24	52	217	220	146	22	—	—
14+85.76	15+31.70	58	134	135	89	22	53	181	185	121	20	—	—
15+31.70	18+30.26	58	227	230	152	21	—	—	—	—	—	—	—
18+30.26	22+52.85	58	226	230	151	20	—	—	—	—	—	—	—
22+52.85	23+14.64	59	226	230	151	20	—	—	—	—	—	—	—



ANCHORAGE INSTALLATION - SEQUENCE OF CONSTRUCTION
NO SCALE



NOTES:

- SEE "FLOODWALL PLAN AND PROFILE STA 217+00 TO STA 236+90", "SHEET PILE PROFILE STA 10+00.00 TO STA 15+77.16", AND "SHEET PILE PROFILE STA 15+77.16 TO STA 21+67.89" SHEETS.
- ANCHORS SHALL NOT BE BONDED IN THE NO-LOAD ZONE.

LOOKING UPSTREAM
SCALE: 3/8"=1'-0"



DATE: 8/1/2024

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Michael Embury
INTERNATIONAL
Michael Embury
R.E.

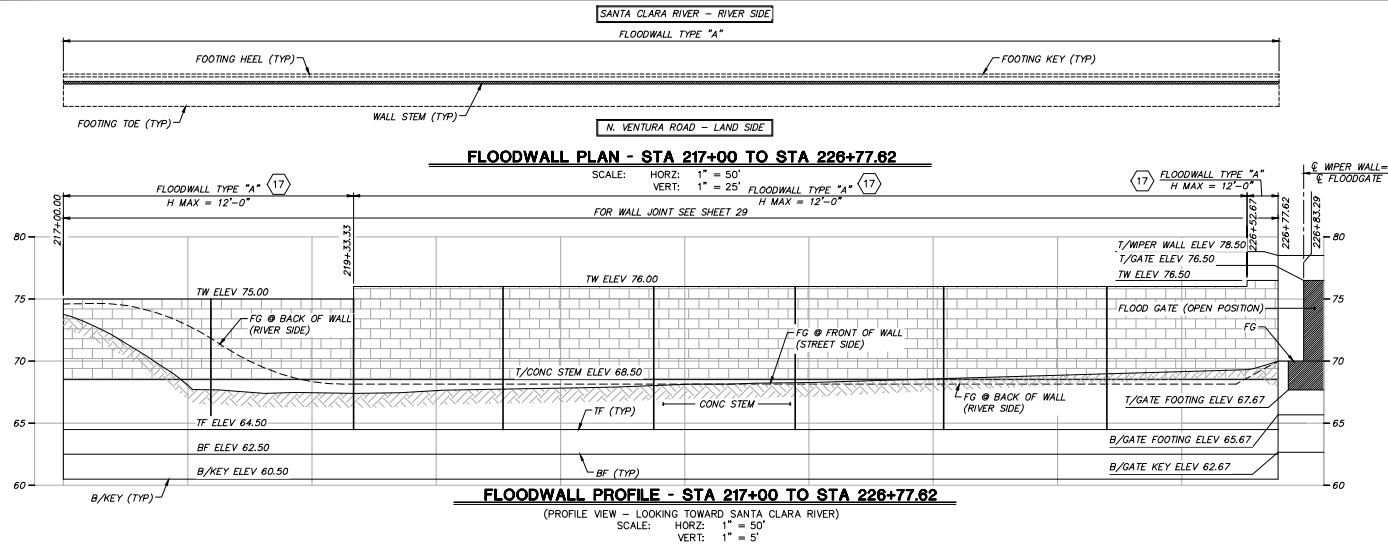
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CHECKED
DATE 8/1/2024

**VENTURA COUNTY
PUBLIC WORKS AGENCY
WATERSHED PROTECTION**

SPEC. NO.
WP25-05
PROJ. NO.
B2045

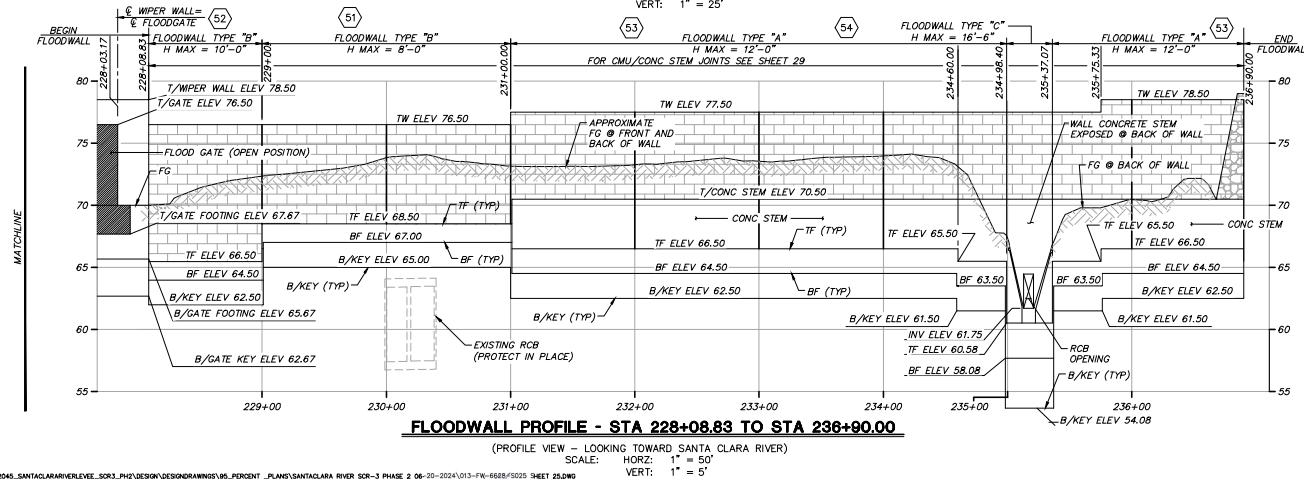
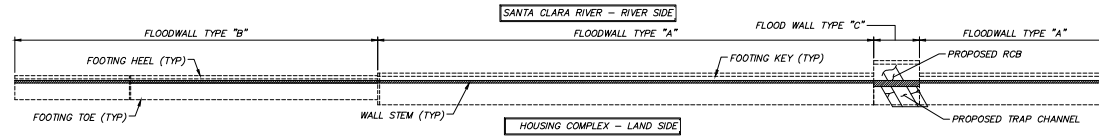
**SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2**
SHEET PILE ANCHOR SECTION AND SCHEDULE

SHEET 24
OF 62
DRAWING NO.
WPD-2-388



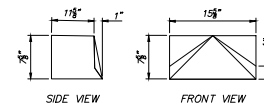
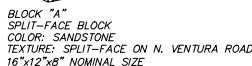
ABBREVIATIONS LEGEND:

T/CONC = TOP OF CONCRETE
T/WIPER = TOP OF WIPER WALL
TW = TOP OF WALL
TF = TOP OF FOOTING
BF = BOTTOM OF FOOTING
B/KEY = BOTTOM OF KEY
FG = FINISHED GRADE
ELEV = ELEVATION



DATE: 7/1/24 10664	I:\PROJECTS\ZONE\SANTALARA\WATER\SDAS_SANTALARA\WATER\SDAS_ZONE3_PHASE2\DESIGN\DRAWINGS\05_PERCENT_PLANS\SANTALARA RIVER SD-3 PHASE 2 06-20-2024\013-FW-6689\5025 SHEET 25.DWG	DESIGNED: CC, AL, CS DRAWN: CC, AL, CS CHECKED: CS	DATE: 8/14/2024 DATE: 8/15/2024 DATE: 8/16/2024	COUNTY OF VENTURA PUBLIC WORKS AGENCY WATERSHED PROTECTION DISTRICT	SPEC. NO.: WP25-05 PROJ. NO.: B2045	SANTA CLARA RIVER LEVEE DOWNSTREAM OF UPRR (SCR-3) - PHASE 2 FLOODWALL PLAN AND PROFILE STA 217+00 TO STA 236+90	SHEET 25 OF 62 DRAWING NO. WPD-2-388
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 BLOCK "B"
COLOR: CHAMPAGNE
TEXTURE: SHADOW FACE ON N. VENTURA ROAD

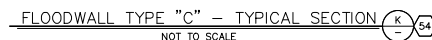
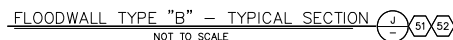
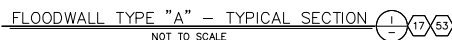


NOT TO SCALE

SPLIT-FACE BLOCK

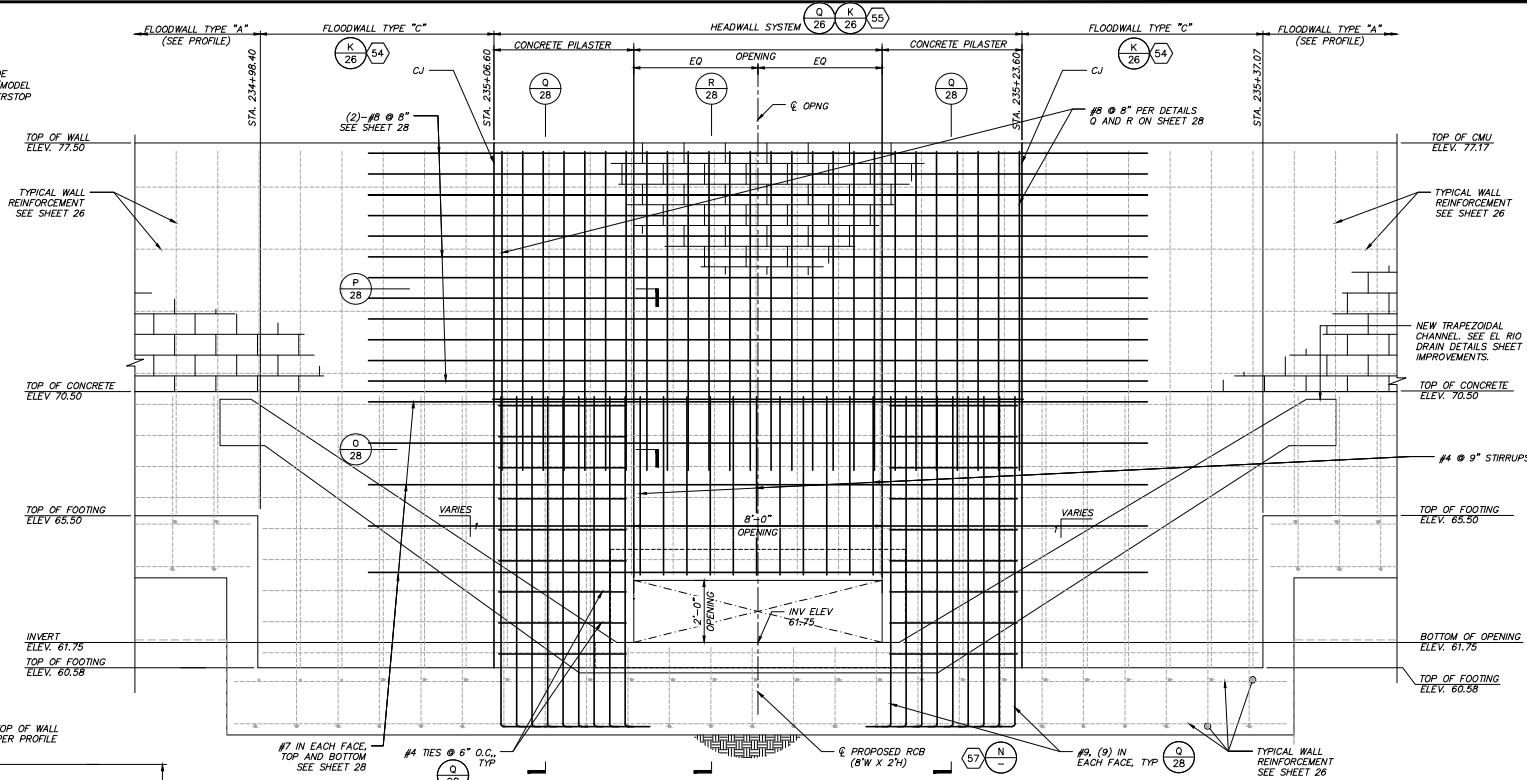
— ONE BLOCK CLEARANCE FROM BOTTOM OF WALL

NOT TO SCALE

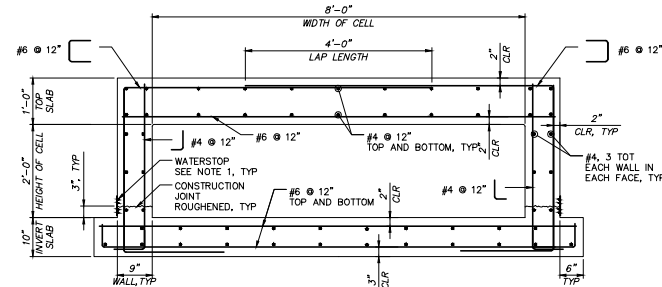


SHEET DATE: 7/20/24 106684 K:\PROJECTS\JOINTS\SANTALARA\RIVER\23045_SANTALARA\NRL\VELOC, SCR3_PHY\DESIGN\DESIGN\WINGS\W5_P00001_PLANS\SANTALARA RIVER SCR-3 PHASE 2 06-20-2024\04-FW-6618-0526 SHEET 26.DWG		COUNTY OF VENTURA PUBLIC WORKS AGENCY WATERSHED PROTECTION DISTRICT		SPEC. NO. WP25-05 PROJ. NO. 82045		SANTA CLARA RIVER LEVEE DOWNSTREAM OF UPRR (SCR-3) - PHASE 2 FLOODWALL TYPICAL SECTIONS		SHEET <u>26</u> OF <u>62</u> DRAWING NO. WPD-2-38	
4 Hutton Center Drive, Suite 500 Santa Ana, CA 92707 Phone: (949) 470-0055 M&AER@NVL.COM		DESIGNED CC, AL, CS CHECKED CC, AL, CS DRAWN CS		8/14/2024 8/15/2024 8/16/2024		26 62 38		26 62 38	
INTERNATIONAL 8/1/2024		RCT		8/1/2024		26		62	
REVISION DESCRIPTION APP. DATE		RCT		8/1/2024		26		62	

NOTES:
1. CONSTRUCTION JOINTS SHALL HAVE A 6" POLYVINYL CHLORIDE WATERSTOP AS MANUFACTURED BY "SIKA / GREENSTREAK" (MODEL NO. 776 - BASE SEAL) OR AN APPROVED EQUAL. THE WATERSTOP SHALL BE CONTINUOUS FOR EACH WALL SECTION.



RCB OPENING ELEVATION
NOT TO SCALE



RCB SECTION
NOT TO SCALE

TRAPEZOIDAL CHANNEL REINFORCING SCHEDULE									
SECTION DATA	B1		B3		B4		B5		
ELEMENT	MAX. DESIGN HEIGHT	T1	T2	BAR NO. & SPACING	VERT. LENGTH	BAR NO. & SPACING	VERT. LENGTH	BAR NO. & SPACING	VERT. LENGTH
#1.7:1 SLOPE TO #1.5:1 SLOPE	11'-4"	1'-6"	1'-0"	#6 @ 12"	CONT	#6 @ 12"	CONT	#6 @ 12"	6'-6"
				#6 @ 12"	CONT	#6 @ 12"	CONT	#6 @ 12"	14'-0"

TRAPEZOIDAL CHANNEL SECTION
NOT TO SCALE

DATE: 8/1/2024 REVISION: 1 DESCRIPTION: 106644		PROJECT: 2024-01-01-001 CLIENT: COUNTY OF VENTURA PROJECT: WATERSHED PROTECTION DISTRICT		DESIGNED: [Signature] CHECKED: [Signature] DATE: 8/1/2024		PROJECT MANAGER: [Signature] DATE: 8/15/2024		SPEC. NO.: WP25-05 PROJ. NO.: B2045		SANTA CLARA RIVER LEVEE DOWNSTREAM OF UPRR (SCR-3) - PHASE 2 EL RIO DRAIN - CHANNEL, RCB, HEADWALL DETAILS		SHEET: 27 OF: 62 DRAWING NO.: WPD-2-388
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GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE PROJECT SPECIFIC SPECIAL PROVISIONS.
2. NO REVISION SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.

FOUNDATION:

1. FOUNDATION EXCAVATIONS SHALL BE VISUALLY OBSERVED BY THE SOIL ENGINEER FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SOILS REPORT PRIOR TO PLACEMENT OF REINFORCING STEEL OR CONCRETE. A CERTIFICATION FOR COMPACTION OF BACKFILL FROM THE GEOTECHNICAL ENGINEER SHALL BE PROVIDED TO THE COUNTY INSPECTOR PRIOR TO FINAL SIGN OFF AND ACCEPTANCE OF FLOODWALL.
2. ALL FOOTINGS SHALL BE EMBEDDED 18" MINIMUM INTO COMPETENT UNDISTURBED NATURAL SOIL OR CERTIFIED COMPACTED FILL, UNLESS NOTED OTHERWISE IN SOILS REPORT.
3. SOILS BENEATH FOOTINGS SHALL BE PREMOISTENED AND COMPACTED TO MINIMUM GEOTECHNICAL REQUIREMENTS PRIOR TO PLACING CONCRETE.
4. BACKFILL SHALL NOT BE PLACED BEHIND THE WALL UNTIL THE GROUT HAS ATTAINED THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH.

CONCRETE:

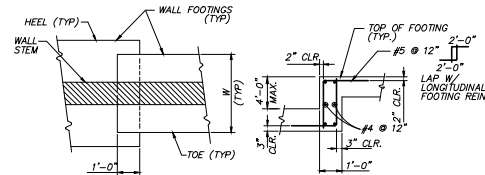
1. CONCRETE SHALL HAVE A MINIMUM 28-DAY ULTIMATE STRENGTH OF 4,000 PSI.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150 AND SHALL BE TYPE II/V.
3. AGGREGATE SHALL CONFORM TO ASTM C-33 FOR NORMAL WEIGHT CONCRETE.
4. READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94.
5. ADMIXTURES SHALL NOT BE USED UNLESS APPROVED BY THE ENGINEER.
6. CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST ACI CODE (ACI 318) AND DETAILING MANUAL (ACI 315) UNLESS OTHERWISE DETAILED OR NOTED ON DRAWINGS.
7. EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE CHAMFERED $\frac{3}{4}" \times \frac{3}{4}"$.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED BARS, CONFORMING TO ASTM A615, LATEST REVISION AND SHALL BE GRADE 60.
3. REINFORCING IS TO BE SECURELY TIED IN PLACE PRIOR TO CASTING CONCRETE OR PLACING GROUT.
4. SUPPORT REINFORCING OFF GRADE WITH DENSE CONCRETE BLOCKS. NO BRICK OR POROUS CONCRETE WILL BE PERMITTED TO SUPPORT REINFORCING.
5. VERTICAL REINFORCEMENT TO BE HELD IN PLACE AT TOP, BOTTOM AND INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.
6. FOR STANDARD HOOKS, LAPS AND BENDS, SEE REINFORCEMENT DETAILS THIS SHEET.

MASONRY:

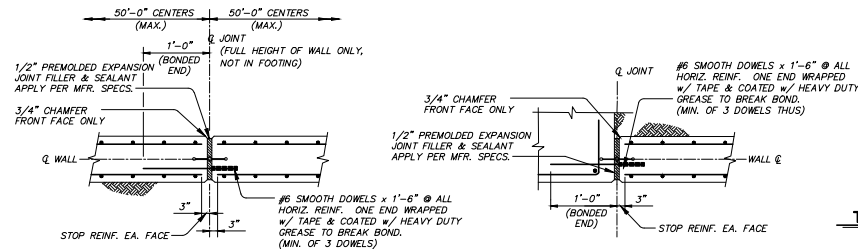
1. CONCRETE MASONRY UNITS (CMU) SHALL BE NORMAL WEIGHT UNITS CONFORMING TO ASTM C90, WITH A MINIMUM COMPRESSIVE STRENGTH f_m OF 1,500 PSI.
2. BLOCKS ARE 12"x8"x16" "SPUT FACE BLOCK". COLOR SHALL BE SELECTED BY THE COUNTY. SPECIALLY SHAPED BLOCKS SHALL BE USED WHERE REQUIRED.
3. CONTRACTOR SHALL SUBMIT SAMPLE OF BLOCKS TO THE COUNTY FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
4. MORTAR SHALL CONFORM TO ASTM C270 AND SHALL BE TYPE S FOR REGULAR STRENGTH MASONRY WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 1,800PSI.
5. GROUT SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,000PSI FOR REGULAR STRENGTH MASONRY.
6. ADDITIVES AND ADMIXTURES TO MORTAR OR GROUT SHALL NOT BE USED UNLESS APPROVED BY THE ENGINEER. THE USE OF FLY ASH IS NOT PERMITTED AS AN ADDITIVE, ADMIXTURE OR CEMENT REPLACEMENT.
7. MASONRY SHALL BE LAID IN RUNNING BONDS AND SHALL BE FULLY GROUTED IN 4' MAXIMUM LIFTS.
8. MASONRY SHALL BE ERECTED TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.
9. PROVIDE CONTROL JOINTS AND EXPANSION JOINTS IN WALLS (NOT FOOTINGS) PER DETAILS SHOWN ON THIS SHEET.
10. SPECIAL INSPECTION FOR BLOCKS AND GROUT IS REQUIRED FOR MASONRY CONSTRUCTION.



PLAN VIEW SECTION

TYPICAL FOOTING STEP DETAIL

NOT TO SCALE

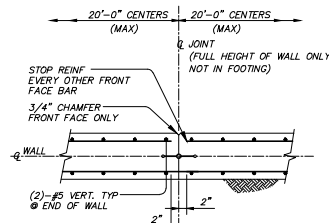


PLAN SECTION - WALL TO WALL

ELEVATION SECTION - TOP SLAB TO WALL

TYPICAL CONCRETE EXPANSION JOINTS

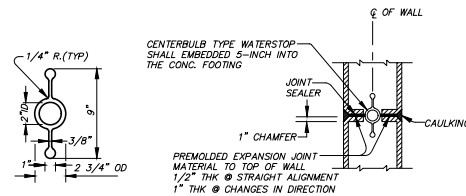
NOT TO SCALE



PLAN SECTION

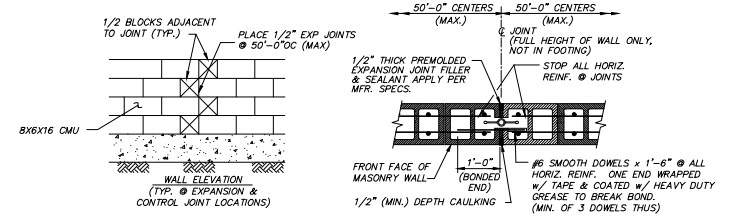
TYPICAL CONCRETE WALL CONTROL JOINT

NOT TO SCALE



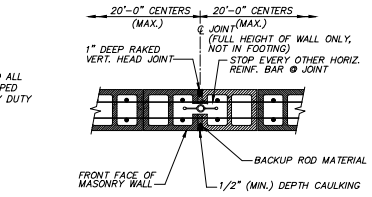
EXPANSION JOINT WATERSTOP DETAIL

NOT TO SCALE



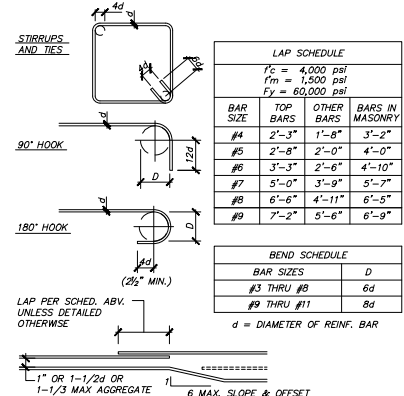
TYPICAL MASONRY WALL EXPANSION JOINT

NOT TO SCALE



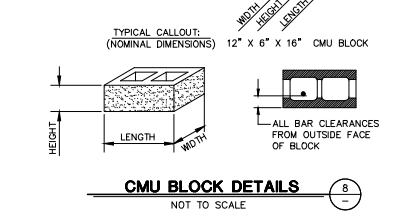
TYPICAL MASONRY WALL CONTROL JOINT

NOT TO SCALE



REINFORCEMENT DETAILS

NOT TO SCALE



CMU BLOCK DETAILS

NOT TO SCALE

DATE: 8/15/24 JENNA CLARK

FILE: P:\DATA\136628\CADD\STRUCT\136628-PHE\07-16-2028-5028.DWG

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INTERNATIONAL
PEAKPERFORM.COM

8/1/2024

R.C.F.

CC, AL, CS

DESIGNED

CC, AL, CS

TRAC

CS

8/14/2024

DATE

8/15/2024

DATE

8/16/2024

DATE

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
WATERSHED PROTECTION DISTRICT

SPEC. NO.

WP25-05

PROJ. NO.

B2045

SANTA CLARA RIVER LEVEE
DOWNSTREAM OF UPRR (SCR-3) - PHASE 2
TYPICAL STRUCTURAL DETAILS

SHEET 29

OF 62

DRAWING NO.

WPD-2-388



