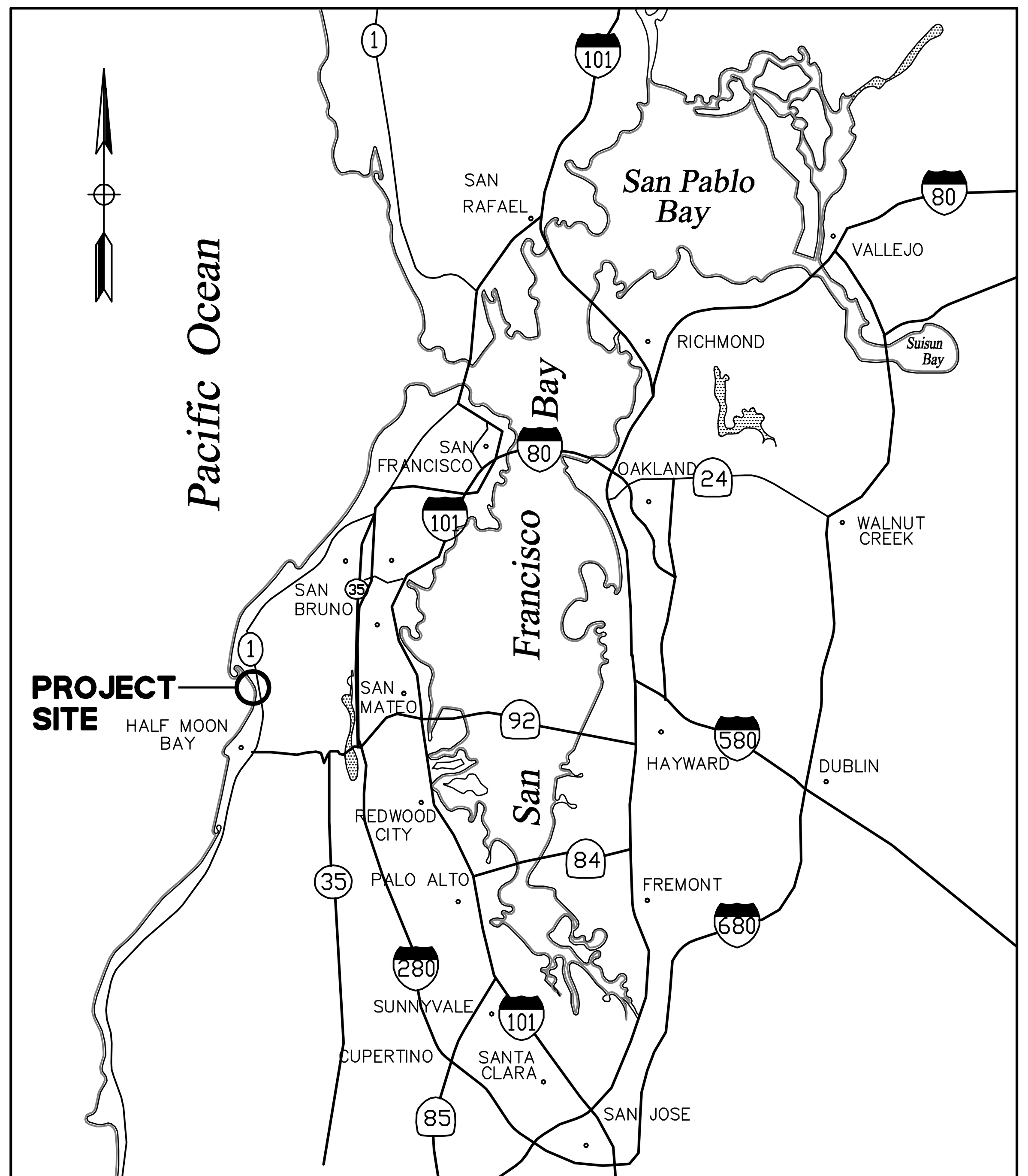
COUNTY OF SAN MATEO
CALIFORNIA

MIDCOAST MULTI-MODAL TRAIL IMPROVEMENTS PROJECT IN SAN MATEO COUNTY TOTAL PROJECT LENGTH, APPROXIMATELY 0.85 MILES

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS 2015

COUNTY PROJECT NO. P29F1

[CALTRANS PROJECT NO. 04-4K0401/04-SM-1-31.2 TO 32.0]



VICINITY MAP
NO SCALE

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA

SHEET INDEX:

LOCATION MAP
NO SCALE

APPROVED DATE:	12/24/2021
CALTRANS DESIGN OVERSIGHT	
ABDOL DEHGHANI	
R.C.E. # 48216 / EXPIRES 06-30-2022	

REGISTERED PROFESSIONAL ENGINEER
ABDOL M DEHGHANI
No. 48216
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA

APPROVED DATE: 12-23-2021

NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:

JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE	DESIGNED BY: BKF (CT)	MIDCOAST MULTI-MODAL TRAIL	SCALE: AS SHOWN
		CHECKED BY: BKF (JM)	TITLE SHEET	DATE: 12/08/2021
		DRAWN BY: BKF (JC)		FILE NO.: 1/4952
		ANN MADER STILLMAN INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	C-0.00
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	0 1 2 3 4	SHEET 1 OF 38

DRAWING NAME: K:\Eng\1\140242\SHEETS\C0.00-TITLE.dwg
PLOT TIME: 12-08-21

PROJECT DESCRIPTION:

THE PROPOSED MIDCOAST MUTIL-MODAL TRAIL IMPROVEMENTS PROJECT SHALL IMPLEMENT AN ASPHALT CONCRETE TRAIL PARALLEL TO HIGHWAY 1 TO PROVIDE AN ACCESSIBLE ROUTE FOR THE NEIGHBORHOODS ON THE NORTH SIDE OF HIGHWAY 1. THE PROJECT WILL INCLUDE CONSTRUCTION OF APPROXIMATELY 4,510 LF (0.85 MILES) OF NEW TRAIL.

PHYSICAL DESCRIPTION OF SITE:
TRAIL ALONG HIGHWAY 1.

LOCATION:
SAN MATEO COUNTY ALONG HIGHWAY 1 BETWEEN CORONADO STREET AND MIRADA ROAD.

UTILITIES:

STORM DRAIN:	COUNTY OF SAN MATEO, CALTRANS
WATER:	COASTSIDE COUNTY WATER DISTRICT
SANITARY SEWER:	SEWER AUTHORITY MID-COASTSIDE
SANITARY SEWER:	GRANADA COMMUNITY SERVICES DISTRICT
GAS/ELECTRIC:	PACIFIC GAS & ELECTRIC

REFERENCES:
GEOTECHNICAL FOUNDATION REPORT PREPARED BY PARIKH CONSULTANTS, INC. TITLED "FOUNDATION REPORT – MID-COAST MULTI-MODAL TRAIL PHASE 2 PEDESTRIAN OVERCROSSING AND RETAINING WALL" AND DATED JANUARY 25, 2018.

EARTHWORK:

1. ESTIMATED EARTHWORK: CUT = 520 CY± (NET)
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EARTHWORK FINAL QUANTITIES.
3. CONTRACTOR SHALL REVIEW AND SUBMIT LEAD COMPLIANCE PLAN (LCP) AS DETAILED IN SECTION 10-5 OF THE SPECIFICATIONS.
4. CONTRACTOR SHALL TEST SOIL AS DESCRIBED IN SECTION 10-5 OF THE SPECIFICATIONS, AND AT THE LOCATIONS AS DESCRIBED ON SHEET C-0.02 OF THESE PLANS.
5. CONTRACTOR MAY REUSE SOILS FOUND TO BE CONTAMINATED AS STRUCTURAL BACKFILL AS DESCRIBED IN SECTION 10-5. WHERE CONTAMINATED SOILS ARE USED AS BACKFILL, THE CONTRACTOR SHALL PROVIDE THE REQUIRED COVER AS DETAILED IN THE TABLE BELOW.
6. NOTE THAT PER THE GEOTECHINICAL REPORT, GROUNDWATER WAS ENCOUNTERED AT A DEPTH 13.5' AND 12.5'. WHERE CONTAMINATED MATERIAL IS PROPOSED TO BE REUSED WITHIN CALTRANS RIGHT-OF-WAY, THE BURIAL LOCATION OF THE CONTAMINATED MATERIAL WILL HAVE TO BE SURVEYED PURSUANT TO THE "2016 DTSC-CALTRANS SOIL MANAGEMENT AGREEMENT FOR AERIALLY DEPOSITED LEAD-CONTAMINATED SOILS".

MINIMUM COVER REQUIREMENTS FOR CONTAMINATED SOIL

	EXTRACTABLE LEAD CONCENTRATION		TOTAL LEAD CONCENTRATION	MINIMUM COVER REQUIREMENT
CASE 1	LESS THAN 5 mg/l CA-WET	AND	LESS THAN 320 mg/kg	NO COVER REQUIREMENT
CASE 2	GREATER THAN 5 mg/l CA-WET AND EQUAL TO OR BELOW 1.5 mg/l DI-WET	OR	GREATER THAN 320 mg/kg BUT EQUAL TO OR BELOW 1600 mg/kg	ONE FOOT OF CLEAN SOIL
CASE 3	GREATER THAN 1.5 mg/l DI-WET BUT EQUAL TO OR BELOW 150 mg/l DI-WET	OR	GREATER THAN 1600 mg/kg BUT EQUAL TO OR BELOW 3200 mg/kg	PAVEMENT STRUCTURE
CASE 4	GREATER THAN 150 mg/l DI-WET	OR	GREATER THAN 3200 mg/kg	SUBJECT TO FULL REGULATION AS HAZARDOUS WASTE

REQUIRED PERMITS:

- COUNTY OF SAN MATEO ENCROACHMENT PERMIT
- CALTRANS ENCROACHMENT PERMIT

EXISTING TOPOGRAPHY

THE EXISTING TOPOGRAPHY IS BASED ON AN AERIAL LIDAR PERFORMED BY UNITED STATES GEOLOGICAL SURVEY DATED JULY 14, 2010, AND TOPOGRAPHIC SURVEY PERFORMED BY BKF ENGINEERS ON MARCH 22, 2017, MAY 17, 2017, MAY 29, 2019, AND JUNE 6, 2019.

PROJECT NOTES:

1. CIVIL ENGINEER	BKF ENGINEERS 255 SHORELINE DRIVE, SUITE 200 REDWOOD CITY, CA 94065 TEL 650.482.6300
2. ENVIRONMENTAL CONSULTANT	PLACEWORKS 1625 SHATTUCK AVE #300 BERKELEY, CA 94709 TEL 510.848.3815
3. STRUCTURAL ENGINEER	CORNERSTONE STRUCTURAL ENGINEERING GROUP 986 WEST ALLUVIAL AVENUE, SUITE 201 FRESNO, CA 93711 TEL 559.320.3200
4. TRANSPORTATION ENGINEER	FEHR & PEERS 332 PINE STREET, 4TH FLOOR SAN FRANCISCO, CA 94104 TEL 415.348.0300
5. GEOTECHNICAL ENGINEER	PARIKH CONSULTANTS, INC. 1497 NORTH MILPITAS BOULEVARD MILPITAS, CA 95035 TEL 408.452.9000
6. COUNTY	COUNTY OF SAN MATEO 555 COUNTY CENTER, 5TH FLOOR REDWOOD CITY, CA 94063 TEL 650.363.4100

7. THE FOLLOWING NOTES ARE ESTABLISHED MERELY TO GUIDE THE CONTRACTOR AS TO THE GENERAL ITEMS OF WORK INVOLVED AND ARE NOT INTENDED TO COVER COMPLETE SCOPE OF WORK. CONTRACTOR SHALL COMPLETE ALL WORK AS PER CONTRACT DOCUMENTS.
8. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR PERSONS AND PROPERTY; THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONJUNCTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
9. ALL MATERIALS, WORK APPURTENANCES SHALL CONFORM WITH THESE PLANS, THE PROJECT SPECIFICATIONS AND THE LATEST ADOPTED VERSION OF SAN MATEO COUNTY STANDARD DETAILS.
10. THE CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE RULES AND REGULATIONS ESTABLISHED BY CAL-OSHA AND OTHER AGENCIES HAVING JURISDICTION OVER THE WORK.
11. THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE COUNTY. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING ROADWAYS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC. AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
13. THE LOCATIONS AND TYPES OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON INFORMATION FURNISHED BY SERVICING AGENCIES AND FIELD SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE POSITION OF AND PROVIDE PROTECTION FOR SUCH UTILITIES AND STRUCTURES, WHETHER SHOWN ON THE PLAN OR NOT.

PROJECT NOTES (CONTINUED):

14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS.
15. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES DONE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.
16. ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT WRITTEN APPROVAL OF THE ENGINEER SHALL BE AT THE CONTRACTOR'S OWN RISK.
17. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN.
18. CONTRACTOR IS ADVISED THAT EXISTING UTILITY LINES IN SOME LOCATIONS MAY BE VERY CLOSE TO TRAIL CONSTRUCTION WORK. CONTRACTOR IS TO SUPPORT THESE UTILITIES DURING CONSTRUCTION, AND ANY REQUIRED OR SPECIAL CONSTRUCTION TECHNIQUES PERFORMED SHALL BE AT NO EXTRA COST TO THE COUNTY. COMPENSATION FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES PAID FOR THE VARIOUS CONTRACT ITEMS OF WORK, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THEREFORE.
19. ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITY CROSSINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTING SAID LINES. CONTACT USA AT (800) 642-2444 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION.
20. CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES WITHIN THE PROJECT LIMITS, CONSISTING OF ROAD RIGHT-OF-WAY, UTILITY EASEMENTS, AND/OR PROJECT CONFORMS, AS SHOWN ON THE PLANS.
21. THE CONTRACTOR SHALL RESTORE ALL DAMAGED, REMOVED OR OTHERWISE DISTURBED WALLS, FENCES, SERVICES, UTILITIES, IMPROVEMENTS OR FEATURES OF WHATEVER NATURE, DUE TO CONTRACTOR'S WORK. SEPARATE PAYMENT FOR RESTORATION OF EXISTING IMPROVEMENTS TO THEIR ORIGINAL CONDITION WILL NOT BE MADE. COMPENSATION FOR THIS TASK SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS CONTRACT ITEMS OF WORK INVOLVED.
22. ALL PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED AT CONTRACTORS EXPENSE BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE COUNTY ENGINEER.
23. THE CONTRACTOR SHALL GIVE THE COUNTY ENGINEER TWO WORKING DAYS ADVANCE NOTICE FOR INSPECTION.
24. VEGETATION AND IMPROVEMENTS SHALL BE REMOVED ONLY WHEN DIRECTED IN WRITING BY THE ENGINEER. NO TREES, VEGETATION, OR IMPROVEMENTS (INCLUDING FENCES) SHALL BE REMOVED WITHOUT PRIOR WRITTEN CONSENT AND APPROVAL OF THE ENGINEER.
25. CONTRACTOR SHALL EXERCISE CARE WHEN EXCAVATING NEAR TREES AND ROOTS OF TREES TO REMAIN. HAND EXCAVATION MAY BE REQUIRED FOR TREES IN CLOSE PROXIMITY TO THE TRAIL.
26. CONTINUOUS DUST CONTROL SHALL BE PROVIDED AS REQUIRED BY SECTION 10 "DUST CONTROL," OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
27. THE CONTRACTOR SHALL FURNISH ALL AFFECTED PROPERTY OWNERS AND/OR RESIDENTS WRITTEN NOTIFICATIONS IN ACCORDANCE WITH SECTION 11, "MOBILIZATION," OF THE SPECIAL PROVISIONS.
28. THE CONTRACTOR SHALL FURNISH AND IMPLEMENT A WATER POLLUTION CONTROL PROGRAM FOR ALL PHASES OF WORK IN ACCORDANCE WITH SECTION 11-1, "WATER POLLUTION CONTROL," OF THE SPECIAL PROVISIONS.
29. THE CONTRACTOR SHALL FURNISH AND IMPLEMENT A TRAFFIC CONTROL PLAN FOR ALL PHASES OF WORK IN ACCORDANCE WITH SECTION 12, "MAINTAINING TRAFFIC," OF THE SPECIAL PROVISIONS. THE CONTRACTOR IS MADE AWARE THAT NO LANE CLOSURES WILL BE ALLOWED. ANY TEMPORARY REMOVAL OF ROADWAY STRIPING DURING CONSTRUCTION SHALL BE REPLACED IN KIND. WORK PERFORMED SHALL CONFORM WITH THE PROVISIONS OF THE CALTRANS ENCROACHMENT PERMIT.
30. NO TRENCHES OR HOLES SHALL BE LEFT OPEN OVERNIGHT, USE STEEL PLATING OR HOT-MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES OVERNIGHT.
31. STAGING AREAS FOR EQUIPMENT AND MATERIALS STORAGE SHALL BE LOCATED IN PUBLIC ROAD RIGHT-OF-WAY WITH SAID LOCATION SUBJECT TO THE APPROVAL OF THE ENGINEER AND/OR CALTRANS.
32. ALL REVISIONS TO THIS PLAN MUST BE REVIEWED AND APPROVED BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND SIGNED BY COUNTY ENGINEER PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.
33. CONTRACTOR SHALL PROTECT AND CLEANOUT ALL EXISTING CULVERT CROSSINGS WITHIN LIMITS OF AC TRAIL CONSTRUCTION.

GENERAL CONSTRUCTION NOTES:

1. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL SUBMIT FOR ACCEPTANCE BY THE ENGINEER A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL BE PREPARED BY A QUALIFIED SWPPP DEVELOPER (QSD) AND IMPLEMENTED BY A QUALIFIED SWPPP PRACTITIONER (QSP) IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT.

IN ACCORDANCE WITH THE NPDES PERMIT COMPLIANCE CHECKLIST FOR THE COUNTY OF SAN MATEO, THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING:

1. STORE, HANDLE AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.
2. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING SOLID WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASHWATER OR SEDIMENTS AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATERCOURSES.
3. USE SEDIMENT CONTROL OR FILTRATION TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
4. AVOID CLEANING, FUELING OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA IN WHICH RUNOFF IS CONTAINED AND TREATED.
5. DELINEATE CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE OR CRITICAL AREAS, BUFFER ZONES, TREES, AND DRAINAGE COURSES WITH FIELD MARKERS.
6. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
7. PERFORM CLEARING AND EARTH MOVING ACTIVITIES ONLY DURING DRY WEATHER.
8. LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
9. LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
10. AVOID TRACKING DIRT OR OTHER MATERIALS OFF-SITE PAVED AREAS AND SIDEWALKS USING DRY SWEEPING METHODS.

CONSTRUCTION RELATED NOISE NOTES:

1. A SIGN SHALL BE POSTED ON CONSTRUCTION ZONE FENCING THAT IS CLEARLY VISIBLE TO SITE PASSERS-BY AND THAT INCLUDES A CONTACT NAME AND TELEPHONE NUMBER OF THE CONSTRUCTION SUPERINTENDENT(S). IF THE SUPERINTENDENT(S) RECEIVES A COMPLAINT, THE SUPERINTENDENT(S) SHALL INVESTIGATE, TAKE APPROPRIATE CORRECTIVE ACTION, AND REPORT THE ACTION TO THE REPORTING PARTY AND TO SAN MATEO COUNTY.
2. ALL INTERNAL COMBUSTION ENGINES ON CONSTRUCTION EQUIPMENT AND TRUCKS SHALL BE FITTED WITH PROPERLY MAINTAINED MUFFLERS, AIR INTAKE SILENCERS, AND ENGINE SHROUDS THAT ARE NO LESS EFFECTIVE THAN AS ORIGINALLY EQUIPPED BY THE MANUFACTURER.
3. STATIONARY CONSTRUCTION EQUIPMENT AND MATERIAL DELIVERY (LOADING/UNLOADING) AREAS SHALL BE LOCATED AS FAR AS PRACTICABLE FROM RESIDENCES.
4. MATERIAL STOCKPILING SHALL BE LOCATED AS FAR AS FEASIBLE FROM NEARBY NOISE-SENSITIVE RECEPTORS.
5. UNNECESSARY ENGINE IDLING SHALL BE CURTAILED TO NO MORE THAN 10 MINUTES, TO THE EXTENT FEASIBLE.
6. 'SMART' BACK-UP ALARMS, WHICH AUTOMATICALLY ADJUST THE ALARM LEVEL BASED ON THE BACKGROUND NOISE LEVEL, SHALL BE EMPLOYED ON ALL TRUCKS AND CONSTRUCTION VEHICLES OR BACK-UP ALARMS SHALL BE DISABLED AND REPLACED WITH HUMAN SPOTTERS.
7. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE HAUL ROUTES ESTABLISHED BY SAN MATEO COUNTY.
8. SEE SECTION 14-8.02B FOR NOISE CONTROL AND MONITORING REQUIREMENTS FOR CONSTRUCTION ADJACENT TO THE EXISTING SCHOOLS, WILKINSON SCHOOL AND EL GRANADA ELEMENTARY SCHOOL.

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

ABBREVIATIONS:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
℄,C/L	CENTERLINE	LG	LIP OF GUTTER
ø	DIAMETER	LT	LEFT
#	NUMBER	LOL	LAYOUT LINE
6"T	6" DIAMETER TREE	LP	LOW POINT
ABUT	ABUTMENT	MAX	MAXIMUM
AC	ASPHALTIC CONCRETE	MB	MAILBOX
ALT	ALTERNATE	MGS	MIDWEST GUARDRAIL SYSTEM
APPROX	APPROXIMATE	MIN	MINIMUM
ATT	AT&T	MH	MANHOLE
AVRV	AUTOMATIC AIR RELEASE AND VACUUM BREAK VALVE	MON	MONUMENT
		(N)	NEW
BC	BEGINNING OF CURVE	NO.	NUMBER
BLDG	BUILDING	NT	NO TAG
BRG	BRIDGE	NTS	NOT TO SCALE
BW	BACK OF WALK	OH, O/H	OVERHEAD
CB	CATCH BASIN	PCC	PORTLAND CEMENT CONCRETE
CCWD	COASTSIDE COUNTY WATER DISTRICT	PG&E	PACIFIC GAS AND ELECTRIC COMPANY
CMP	CORRUGATED METAL PIPE	PH	POTHOLE
CONC	CONCRETE	PL, P/L	PROPERTY LINE
CP	CONCRETE PAD	PR, PROP, P	PROPOSED
CY	CUBIC YARD	PVC	POLYVINYL CHLORIDE
DBL	DOUBLE	RCP	REINFORCED CONCRETE PIPE
DI	DISTANCE	RIM	RIM ELEVATION
DW, D/W, DWY	DRIVEWAY	RSP	ROCK SLOPE PROTECTION
E, ELEC	ELECTRIC	RT	RIGHT
(E), EX, EXIST	EXISTING	R/W, R.O.W.	RIGHT OF WAY
EASE	EASEMENT	RW	RETAINING WALL
EC	END OF CURVE	SAM	SEWER AUTHORITY MID-COASTSIDE
EG	EXISTING GROUND	SD	STORM DRAIN
EL, ELEV	ELEVATION	SDMH	STORM DRAIN MANHOLE
EP	EDGE OF PAVEMENT	SHDLR	SHOULDER
ESA	ENVIRONMENTALLY SENSITIVE AREA	SL	STREETLIGHT
ETW	EDGE OF TRAVELWAY	SS	SANITARY SEWER
FC	FACE OF CURB	SSCO	SANITARY SEWER CLEANOUT
FG	FINISH GRADE	SSD	SEE STRUCTURAL DRAWINGS
FH	FIRE HYDRANT	SLP	SEE LANDSCAPE PLANS
FL	FLOW LINE	SSMH	SANITARY SEWER MANHOLE
FT	FEET, FOOT	STA	STATION
GCSD	GRANADA COMMUNITY SERVICES DISTRICT	STD	STANDARD
HC/HCR	ACCESSIBILITY RAMP	SQFT.	SQUARE FEET
HWY	HIGHWAY	TC	TOP OF CURB
HSS	HOLLOW STRUCTURAL SECTION	T, TEL	TELEPHONE
INV	INVERT	TRANS	TRANSFORMER
JT	JOINT TRENCH	TS	TRAFFIC SIGNAL
LF	LINEAR FOOT	TW	TOP OF WALL
		TYP	TYPICAL
		W	WATER

LEGEND:

	PROPOSED	EXISTING
BOUNDARY		
ELECTRICAL		E
FENCE OR RAILING	—x—x—x—x—x—x—	—x—x—x—x—x—x—
GAS		GAS
JOINT TRENCH		JT
MGS WITH INLINE END TREATMENT		
OVERHEAD TELEPHONE		OH
SANITARY SEWER LINE		SS
TELECOMMUNICATION LINE		T
STORM DRAIN LINE		SD
SWALE		
WATER LINE		W
BLOW OFF		
BOLLARDS		
CURB INLET		
DETECTABLE WARNING SURFACE		
FIRE HYDRANT		
MANHOLE		
OBJECT MARKER		
SOLAR LIGHT BOLLARD		
SPOT ELEVATION		×101
TRAFFIC SIGN/OBJECT MARKER		
VEHICLE SIGNAL HEAD		
VEHICLE SIGNAL HEAD (RELOCATE)		
LUMINAIRE		
LUMINAIRE (RELOCATE)		
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN SIGNAL HEAD (RELOCATE)		
TRAIL SIGN		
TREE		XX"
TREE REMOVAL		
VALVE		
ESA FENCING		

1-800-227-2600 CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
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R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
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ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
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(650) 482-6300

COUNTY OF SAN MATEO
PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
NOTES, ABBREVIATIONS, & LEGEND

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
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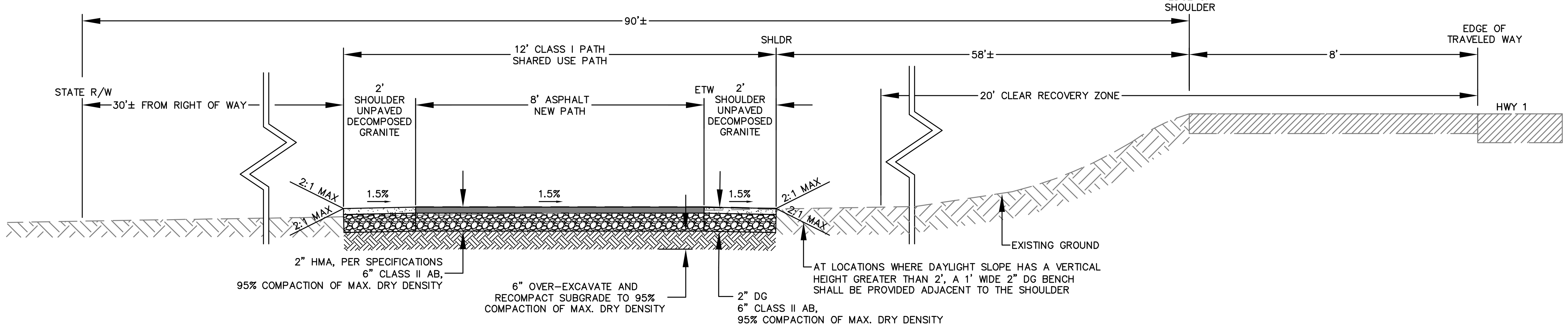
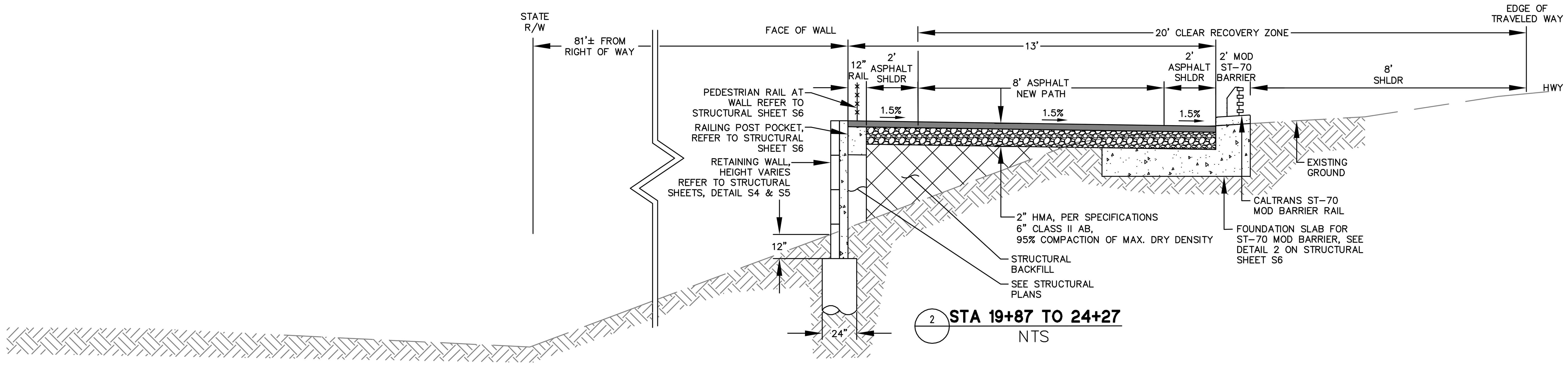
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA



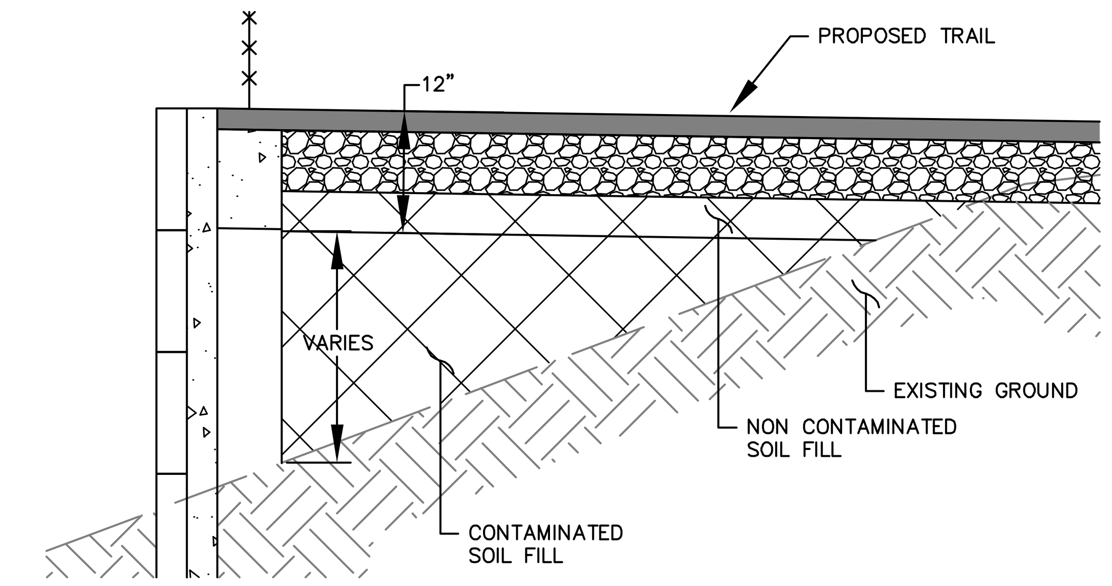
1 STA 1+09 TO 19+87, 24+27 TO 32+51, 32+87 TO 34+95, 35+18 TO 36+64, 36+88 TO 37+74, 38+54 TO 39+01, 39+38 TO 44+43, 44+79 TO 45+93, AND 50+00 TO 54+65 (SCHOOL CONNECTION)

NTS



2 STA 19+87 TO 24+27

NTS



4 CASE 2 STRUCTURAL BACKFILL DETAIL

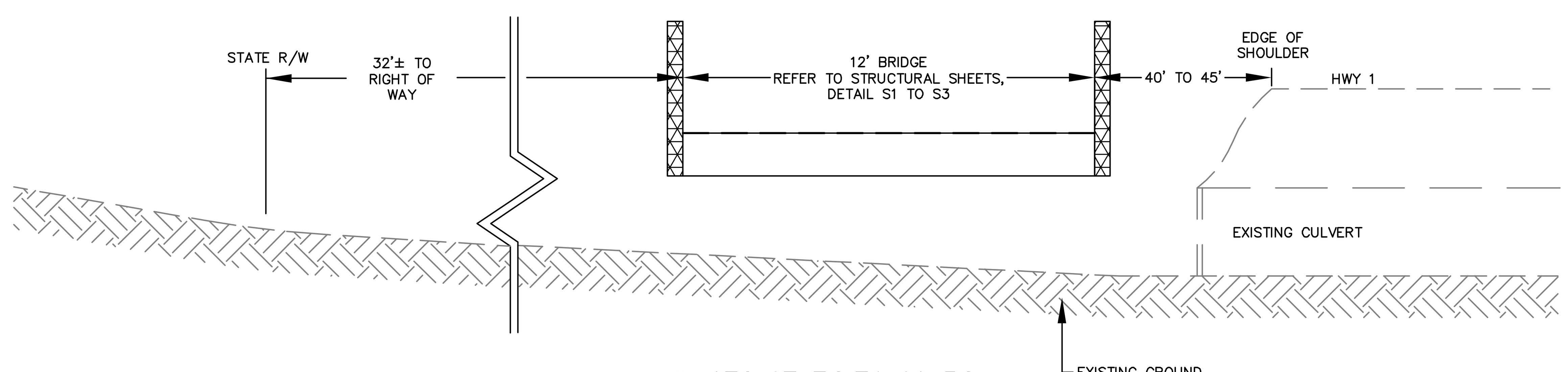
NTS

NOTES

1. FROM STATION 19+45 TO 24+65 THE PROPOSED TRAIL IS WITHIN 10' OF THE EDGE OF THE PAVED SHOULDER. AS SUCH THE CONTRACTOR SHALL PERFORM SOIL TESTING AS DESCRIBED IN THE SPECIFICATIONS.
2. THE CONTRACTOR SHALL PERFORM SOIL TESTING AT A MINIMUM OF FOUR LOCATIONS ALONG THE STATION RANGE SPECIFIED IN NOTE 1.

LEGEND

- EXISTING GROUND
- AGGREGATE BASE
- ASPHALT
- STRUCTURAL BACKFILL
- CONCRETE
- DECOMPOSED GRANITE
- PEDESTRIAN RAILING



3 STA 37+74 TO 38+54

NTS

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

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REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL

TYPICAL CROSS SECTIONS

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

SCALE: NTS
DATE: 12/08/2021
FILE NO.: 1/4952
C-0.02
SHEET 3 OF 38

DRAWING NAME: K:\Eng14\140242\SHEETS\C0.02-CROSS_SECTIONS.dwg
PLOT TIME: 12-08-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	31.2/32.0	1	2

PROFESSIONAL LAND SURVEYOR 12/08/21 DATE

PROFESSIONAL LAND SURVEYOR DAVID C. JUNGMANN No. 9267 Exp. 06/20/22 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.

LINE TABLE			
LINE NO.	LENGTH (FT)	DIRECTION	BEARING
L1	74.74'	S63°28'07"E	S63°28'06.86"E
L2	7.06'	N89°43'01"E	N89°43'00.52"E
L3	5.02'	N26°25'32"E	N26°25'31.65"E
L4	55.76'	S62°44'18"E	S62°44'17.92"E
L5	18.46'	N89°51'40"E	N89°51'39.74"E
L6	658.93'	S62°54'19"E	S62°54'18.77"E
L7	791.00'	S62°44'18"E	S62°44'17.92"E
L8	0.42'	S19°14'34"E	S19°14'34.21"E
L9	4.62'	N77°36'09"E	N77°36'09.33"E
L10	33.40'	S62°46'13"E	S62°46'12.96"E
L11	18.75'	S24°50'00"E	S24°50'00.26"E
L12	440.12'	S62°44'35"E	S62°44'35.35"E
L13	43.45'	N86°33'09"E	N86°33'08.76"E
L14	607.06'	S63°06'18"E	S63°06'18.31"E
L15	42.92'	S68°34'52"E	S68°34'52.06"E

LINE TABLE			
LINE NO.	LENGTH (FT)	DIRECTION	BEARING
L16	39.86'	S42°46'33"E	S42°46'32.61"E
L17	33.39'	S84°08'53"E	S84°08'53.05"E
L18	254.04'	S62°33'38"E	S62°33'37.78"E
L19	29.93'	S39°51'06"E	S39°51'06.46"E
L20	16.44'	S72°17'31"E	S72°17'31.20"E
L21	15.92'	S52°47'20"E	S52°47'19.53"E
L22	87.02'	S64°15'47"E	S64°15'46.60"E
L23	5.02'	N74°05'26"E	N74°05'26.34"E
L24	40.57'	S58°38'26"E	S58°38'25.58"E
L25	29.54'	S35°08'00"E	S35°07'59.53"E
L26	59.73'	S56°59'04"E	S56°59'03.91"E
L27	25.03'	S42°41'24"E	S42°41'23.84"E
L28	141.18'	S46°49'46"E	S46°49'45.84"E
L29	7.52'	S82°45'26"E	S82°45'25.94"E
L30	44.75'	S43°55'56"E	S43°55'56.03"E

LINE TABLE			
LINE NO.	LENGTH (FT)	DIRECTION	BEARING
L31	21.34'	S59°23'30"E	S59°23'29.93"E
L32	80.75'	S42°47'07"E	S42°47'07.35"E
L33	21.60'	S26°13'05"W	S26°13'05.47"W
L34	148.38'	N82°34'50"W	N82°34'49.94"W
L35	148.38'	N42°53'46"W	N42°53'45.91"W
L36	20.47'	N27°15'42"E	N27°15'42.08"E

CURVE TABLE				
CURVE NO.	LENGTH (FT)	RADIUS (FT)	DELTA	BEARING
C1	4.68'	10.00'	026°48'53"	S76°52'33.17"E
C2	5.52'	5.00'	063°17'29"	N58°04'16.09"E
C3	7.93'	5.00'	090°50'10"	S71°50'36.87"W
C4	19.13'	40.00'	027°24'02"	S76°26'19.09"E
C5	38.03'	80.00'	027°14'01"	N76°31'19.52"W
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C7	60.73'	80.00'	043°29'44"	N40°59'26.07"W
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C9	20.75'	30.00'	039°37'38"	N82°35'01.82"W
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CURVE NO.	LENGTH (FT)	RADIUS (FT)	DELTA	BEARING
C16	25.27'	35.00'	041°22'20"	S63°27'42.83"E
C17	30.14'	80.00'	021°35'15"	N73°21'15.42"W
C18	31.71'	80.00'	022°42'31"	N51°12'22.12"W
C19	22.65'	40.00'	032°26'25"	S56°04'18.83"E
C20	17.02'	50.00'	019°30'12"	N62°32'25.37"W
C21	10.01'	50.00'	011°28'27"	S58°31'33.07"E
C22	25.44'	35.00'	041°38'47"	S85°05'10.13"E
C23	16.50'	20.00'	047°16'08"	N82°16'29.62"W
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C29	20.33'	30.00'	038°49'30"	N63°20'40.98"W
C30	13.49'	50.00'	015°27'34"	S51°39'42.98"E

CURVE TABLE				
CURVE NO.	LENGTH (FT)	RADIUS (FT)	DELTA	BEARING
C31	14.49'	50.00'	016°36'23"	N51°05'18.64"W
C32	24.85'	20.00'	071°12'05"	S61°49'07.76"W
C33	76.19'	110.00'	039°41'04"	N62°44'17.92"W
C34	24.85'	20.00'	071°12'05"	N07°17'43.61"W

PROJECT SURVEY CONTROL						
POINT NO.	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1	MAG & WASH CP#1	'MT' 43+97.49	26.7' RT	69.41'	2008449.75	5994739.05
2	MAG & WASH	OUT OF RANGE	OUT OF RANGE	61.35'	2008233.78	5994930.34
3	MAG & WASH CP#3	'MT' 40+94.76	42.0' RT	74.27'	2008640.64	5994506.80
4	MAG & WASH	'MT' 39+93.74	53.3' RT	74.68'	2008705.16	5994406.44
5	MAG & WASH	'MT' 35+58.28	67.7' RT	69.91'	2008889.54	5994054.28
6	MAG & WASH	'MT' 31+71.90	58.3' RT	58.23'	2009065.83	5993718.39
7	MAG & WASH	'MT' 28+67.30	59.7' RT	47.96'	2009202.36	5993446.10
8	MAG & WASH	'MT' 25+69.27	60.2' RT	41.20'	2009336.74	5993180.08
9	MAG & WASH	'MT' 22+61.89	10.3' RT	37.30'	2009474.96	5992917.06
10	MAG & WASH	'MT' 19+02.98	53.1' RT	35.08'	2009647.58	5992572.54
11	MAG & WASH	'MT' 15+52.54	75.5' RT	33.31'	2009782.53	5992305.38
12	MAG & WASH	'MT' 12+64.42	76.4' RT	31.33'	2009913.69	5992048.85
13	MAG & WASH	'MT' 09+12.71	77.3' RT	29.43'	2010074.00	5991735.80
14	MAG & WASH	'MT' 06+21.14	68.7' RT	27.19'	2010214.35	5991480.34
15	MAG & WASH	'MT' 03+28.28	68.3' RT	25.29'	2010348.14	5991219.82
16	MAG & WASH	'MT' 00+00.18	21.7' RT	22.60'	2010494.93	5990944.54
17	MAG & WASH	OUT OF RANGE	OUT OF RANGE	20.81'	2010545.85	5990702.12

NOTES TO CONTRACTOR

1. THIS PLAN REFLECTS MONUMENTATION DESIGNATED BY THE COUNTY OF SAN MATEO LAND SURVEYS AND MAPPING SECTION TO CONTROL CONSTRUCTION SURVEYS ANTICIPATED IN CONNECTION WITH THIS PROJECT.
2. THE CONTRACTOR SHALL EMPLOY OR ENGAGE A PROFESSIONAL LAND SURVEYOR, LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA, COMPETENT TO PRACTICE IN THE ENDEAVOR IN WHICH HE/SHE WILL BE ENGAGED, TO BE IN RESPONSIBLE CHARGE OF ALL SURVEYING AND RELATED LAYOUT WORK WHICH THE CONTRACTOR IS REQUIRED TO PERFORM IN ORDER TO CONSTRUCT THE INTENDED IMPROVEMENTS IN CONFORMANCE WITH DESIGN. (RESPONSIBLE CHARGE REQUIREMENTS PURSUANT TO STATE OF CALIFORNIA CODE OF REGULATIONS, TITLE 16, CHAPTER 5, STATE OF CALIFORNIA, SECTION 404.2 "DEFINITION OF RESPONSIBLE CHARGE FOR LAND SURVEYORS," AND SECTION 415 "PRACTICE WITHIN AREA OF COMPETENCE.")
3. THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE PROFESSIONAL LAND SURVEYOR OR ENGINEER LICENSED TO PRACTICE LAND SURVEYING, INDICATING HIS/HER EMPLOYMENT BY THE CONTRACTOR IN RESPONSIBLE CHARGE. THIS LETTER SHALL BE SIGNED BY AND BEAR THE PROFESSIONAL SEAL OF THE INDIVIDUAL (NOT THE COMPANY) ENGAGED IN THAT CAPACITY. THIS LETTER SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK ALONG WITH A COPY TO THE COUNTY OF SAN MATEO LAND SURVEYOR.
4. THE CONTRACTOR, HAVING ENGAGED OR EMPLOYED A PROFESSIONAL LAND SURVEYOR AND RELATED SUPPORT STAFF, IS RESPONSIBLE FOR SURVEY LAYOUT WORK, DEFINED HEREIN AS CONTRACTORS LINE AND GRADE. LINE AND GRADE POINTS SHALL BE SET FROM THE CONSTRUCTION CONTROL POINTS PROVIDED BY THE COUNTY OF SAN MATEO LAND SURVEYOR (UNDER THE DIRECTION OF THE ENGINEER), AND SHALL ALSO SERVE AS THE CONTRACTOR'S PRESERVATION AND/OR PERPETUATION OF THAT CONTROL. THESE POINTS SHALL BE SET WITH PRECISION AND METHODS COMMENSURATE WITH THE TOLERANCES REQUIRED BY THE INTENDED CONSTRUCTION.
5. THE CONTRACTOR SHALL CHECK AND VERIFY THE INTERNAL INTEGRITY OF THE PROJECT CONTROL AND CONSTRUCTION CONTROL TO ITS OWN SATISFACTION AND SHALL NOTIFY THE ENGINEER OF ANY APPARENT DISCREPANCY PRIOR TO USE FOR LAYOUT OF LINE AND GRADE POINTS.
6. COUNTY OF SAN MATEO MONUMENTS AND CONTROL POINTS ARE TO BE PROTECTED FROM DAMAGE AND PRESERVED BY THE CONTRACTOR. IN THE EVENT THAT ANY MONUMENT OR CONTROL POINT IS TO BE LOST, DESTROYED, OR COVERED BY WORK PERFORMED IN CONJUNCTION WITH THIS CONTRACT, THE CONTRACTOR SHALL PROVIDE NO GREATER THEN 14 DAYS AND A MINIMUM OF TWO WORKING DAYS NOTICE TO THE COUNTY SURVEYOR OFFICE (650–599–1410) PRIOR TO ANY SUCH WORK SO THAT THE MONUMENTS MAY BE REFERENCED OR REPLACED. IN THE EVENT THAT NO NOTICE IS GIVEN AND THE MONUMENTS ARE LOST, ALTERED, OR DESTROYED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL REPLACEMENT COSTS.

SURVEYOR'S NOTES

1. HORIZONTAL COORDINATES SHOWN ON THIS SURVEY CONTROL DIAGRAM ARE BASED UPON THE COUNTY OF SAN MATEO HORIZONTAL DATUM WHICH IS BASED ON NAD83 (2010), CALIFORNIA STATE PLANE ZONE 3, U.S. SURVEY FEET. COMBINED GROUND TO GRID SCALE FACTOR IS 0.999934.
2. HORIZONTAL COORDINATES FOR ALL PROJECT CONTROL ARE THE PRODUCT OF A COMBINED GNSS AND TERRESTRIAL CONTROL SURVEY CONDUCTED BY BKF IN MARCH, 2017. ALL MEASUREMENTS WERE ADJUSTED WITH A WEIGHTED LEAST–SQUARES METHOD UTILIZING STAR*NET PRO (v8). ADJUSTMENT WAS CONSTRAINED TO NAD83 (2010) POSITIONS.
3. ELEVATIONS FOR THIS PROJECT WERE DETERMINED BY DIFFERENTIAL LEVELING AND GNSS MEASUREMENTS PERFORMED BY BKF IN MARCH, 2017. ALL MEASUREMENTS WERE ADJUSTED WITH A WEIGHTED LEAST–SQUARES METHOD UTILIZING STAR*NET PRO (V8). ADJUSTED ELEVATIONS ARE REALIZED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD–88).

COUNTY LAND SURVEYOR'S STATEMENT:

THIS SURVEY CONTROL PLAN HAS BEEN EXAMINED BY ME, OR BY A PROFESSIONAL LAND SURVEYOR UNDER MY DIRECTION, PURSUANT TO SEC. 8726 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. I HEREBY STATE THAT THE INFORMATION SHOWN HEREON HAS BEEN GEOSPATIALLY CORRECTED TO THE SAN MATEO COUNTY CONTROL SYSTEM, THAT THE EXISTING MONUMENTATION SHOWN HEREON IS A SUFFICIENT BASIS FROM WHICH THE CONSTRUCTION LINES AND GRADES CAN BE SET, AND THAT THE MONUMENT DESCRIPTIONS ARE SUFFICIENT TO ALLOW FOR RECOVERY AND IDENTIFICATION BY SOMEONE WHO IS UNFAMILIAR WITH THE AREA. I HAVE ALSO EXAMINED THE ASSOCIATED ELECTRONIC FILES FOR THIS SURVEY CONTROL PLAN AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THESE FILES ACCURATELY REPRESENT THE SAME INFORMATION SHOWN HEREON.

LICENSED LAND SURVEYOR JOHN THOMAS MAY 8570 EXPIRES 03/31/23 STATE OF CALIFORNIA

JOHN THOMAS MAY
ACTING COUNTY SURVEYOR
L.S. No. 8570, EXPIRES 03/31/2023

DATE:

LEGEND:

△ = PRIMARY CONTROL
⌖ = PROJECT SURVEY CONTROLS
0000 POINT NUMBER
00.00 ELEVATION
XXXX DESCRIPTION

BENCHMARK STATEMENT:

THE ELEVATIONS SHOWN ON THIS SURVEY WERE BASED ON NAVD–88.

THE SITE BENCHMARK IS BKF CONTROL POINT NO.1 – A MAG NAIL AND WASHER SET IN THE ASPHALT NEAR THE EDGE OF PAVEMENT ON THE EAST SIDE OF HIGHWAY 1 NORTH OF MIRADA ROAD.

ELEVATION = 69.41

BASIS OF BEARINGS:

THE BEARINGS WERE BASED ON NAD 83, CALIFORNIA COORDINATE SYSTEM OF 1983, EPOCH 2011. DISTANCES SHOWN HEREON ARE GROUND LEVEL DISTANCES. MULTIPLY DISTANCES BY 0.99999714 TO OBTAIN GRID VALUES.

THE BEARING N50°35'00"W AS SHOWN BETWEEN THE TWO MAG NAILS SET ON THE EAST SIDE OF HIGHWAY 1 WAS USED AS THE BASIS OF BEARINGS.

CP # 1 (MAG NAIL)	CP # 3 (MAG NAIL)
N: 2008449.75	N: 2008640.64
E: 5994739.05	E: 5994506.80

APPROVED DATE: 12-23-2021

NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE: 12/23/2021

ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY OF SAN MATEO
R.C.E. # 47882 / EXPIRES 12–31–2021

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA

BKF ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482–6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI–MODAL TRAIL
SURVEY CONTROL PLAN

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

SCALE: 1" = 75'
DATE: 12/08/2021
FILE NO.: 1/4952

PC-1

DRAWING NAME: K:\Eng14\140242\SHEETS\C0.03-Survey_Control_Plan.dwg
PLOT TIME: 12-09-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	1	31.2/32.0	2	2

PROFESSIONAL LAND SURVEYOR 12/08/21 DATE

PROFESSIONAL LAND SURVEYOR DAVID C. JUNGMANN No. 9267 Exp. 06/20/22 CIVIL STATE OF CALIFORNIA

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MATCHLINE SEE PC-1

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NOTES TO CONTRACTOR

1. THIS PLAN REFLECTS MONUMENTATION DESIGNATED BY THE COUNTY OF SAN MATEO LAND SURVEYS AND MAPPING SECTION TO CONTROL CONSTRUCTION SURVEYS ANTICIPATED IN CONNECTION WITH THIS PROJECT.
2. THE CONTRACTOR SHALL EMPLOY OR ENGAGE A PROFESSIONAL LAND SURVEYOR, LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA, COMPETENT TO PRACTICE IN THE ENDEAVOR IN WHICH HE/SHE WILL BE ENGAGED, TO BE IN RESPONSIBLE CHARGE OF ALL SURVEYING AND RELATED LAYOUT WORK WHICH THE CONTRACTOR IS REQUIRED TO PERFORM IN ORDER TO CONSTRUCT THE INTENDED IMPROVEMENTS IN CONFORMANCE WITH DESIGN. (RESPONSIBLE CHARGE REQUIREMENTS PURSUANT TO STATE OF CALIFORNIA CODE OF REGULATIONS, TITLE 16, CHAPTER 5, STATE OF CALIFORNIA, SECTION 404.2 "DEFINITION OF RESPONSIBLE CHARGE FOR LAND SURVEYORS," AND SECTION 415 "PRACTICE WITHIN AREA OF COMPETENCE.")
3. THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE PROFESSIONAL LAND SURVEYOR OR ENGINEER LICENSED TO PRACTICE LAND SURVEYING, INDICATING HIS/HER EMPLOYMENT BY THE CONTRACTOR IN RESPONSIBLE CHARGE. THIS LETTER SHALL BE SIGNED BY AND BEAR THE PROFESSIONAL SEAL OF THE INDIVIDUAL (NOT THE COMPANY) ENGAGED IN THAT CAPACITY. THIS LETTER SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK ALONG WITH A COPY TO THE COUNTY OF SAN MATEO LAND SURVEYOR.
4. THE CONTRACTOR, HAVING ENGAGED OR EMPLOYED A PROFESSIONAL LAND SURVEYOR AND RELATED SUPPORT STAFF, IS RESPONSIBLE FOR SURVEY LAYOUT WORK, DEFINED HEREIN AS CONTRACTORS LINE AND GRADE. LINE AND GRADE POINTS SHALL BE SET FROM THE CONSTRUCTION CONTROL POINTS PROVIDED BY THE COUNTY OF SAN MATEO LAND SURVEYOR (UNDER THE DIRECTION OF THE ENGINEER), AND SHALL ALSO SERVE AS THE CONTRACTOR'S PRESERVATION AND/OR PERPETUATION OF THAT CONTROL. THESE POINTS SHALL BE SET WITH PRECISION AND METHODS COMMENSURATE WITH THE TOLERANCES REQUIRED BY THE INTENDED CONSTRUCTION.
5. THE CONTRACTOR SHALL CHECK AND VERIFY THE INTERNAL INTEGRITY OF THE PROJECT CONTROL AND CONSTRUCTION CONTROL TO ITS OWN SATISFACTION AND SHALL NOTIFY THE ENGINEER OF ANY APPARENT DISCREPANCY PRIOR TO USE FOR LAYOUT OF LINE AND GRADE POINTS.
6. COUNTY OF SAN MATEO MONUMENTS AND CONTROL POINTS ARE TO BE PROTECTED FROM DAMAGE AND PRESERVED BY THE CONTRACTOR. IN THE EVENT THAT ANY MONUMENT OR CONTROL POINT IS TO BE LOST, DESTROYED, OR COVERED BY WORK PERFORMED IN CONJUNCTION WITH THIS CONTRACT, THE CONTRACTOR SHALL PROVIDE NO GREATER THEN 14 DAYS AND A MINIMUM OF TWO WORKING DAYS NOTICE TO THE COUNTY SURVEYOR OFFICE (650-599-1410) PRIOR TO ANY SUCH WORK SO THAT THE MONUMENTS MAY BE REFERENCED OR REPLACED. IN THE EVENT THAT NO NOTICE IS GIVEN AND THE MONUMENTS ARE LOST, ALTERED, OR DESTROYED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL REPLACEMENT COSTS.

SURVEYOR'S NOTES

1. HORIZONTAL COORDINATES SHOWN ON THIS SURVEY CONTROL DIAGRAM ARE BASED UPON THE COUNTY OF SAN MATEO HORIZONTAL DATUM WHICH IS BASED ON NAD83 (2010), CALIFORNIA STATE PLANE ZONE 3, U.S. SURVEY FEET. COMBINED GROUND TO GRID SCALE FACTOR IS 0.999934.
2. HORIZONTAL COORDINATES FOR ALL PROJECT CONTROL ARE THE PRODUCT OF A COMBINED GNSS AND TERRESTRIAL CONTROL SURVEY CONDUCTED BY BKF IN MARCH, 2017. ALL MEASUREMENTS WERE ADJUSTED WITH A WEIGHTED LEAST-SQUARES METHOD UTILIZING STAR*NET PRO (v8). ADJUSTMENT WAS CONSTRAINED TO NAD83 (2010) POSITIONS.
3. ELEVATIONS FOR THIS PROJECT WERE DETERMINED BY DIFFERENTIAL LEVELING AND GNSS MEASUREMENTS PERFORMED BY BKF IN MARCH, 2017. ALL MEASUREMENTS WERE ADJUSTED WITH A WEIGHTED LEAST-SQUARES METHOD UTILIZING STAR*NET PRO (V8). ADJUSTED ELEVATIONS ARE REALIZED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88).

COUNTY LAND SURVEYOR'S STATEMENT:

THIS SURVEY CONTROL PLAN HAS BEEN EXAMINED BY ME, OR BY A PROFESSIONAL LAND SURVEYOR UNDER MY DIRECTION, PURSUANT TO SEC. 8726 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. I HEREBY STATE THAT THE INFORMATION SHOWN HEREON HAS BEEN GEOSPATIALLY CORRECTED TO THE SAN MATEO COUNTY CONTROL SYSTEM, THAT THE EXISTING MONUMENTATION SHOWN HEREON IS A SUFFICIENT BASIS FROM WHICH THE CONSTRUCTION LINES AND GRADES CAN BE SET, AND THAT THE MONUMENT DESCRIPTIONS ARE SUFFICIENT TO ALLOW FOR RECOVERY AND IDENTIFICATION BY SOMEONE WHO IS UNFAMILIAR WITH THE AREA. I HAVE ALSO EXAMINED THE ASSOCIATED ELECTRONIC FILES FOR THIS SURVEY CONTROL PLAN AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THESE FILES ACCURATELY REPRESENT THE SAME INFORMATION SHOWN HEREON.

LICENSED LAND SURVEYOR JOHN THOMAS MAY 8570 EXPIRES 03/31/23 STATE OF CALIFORNIA

JOHN THOMAS MAY
ACTING COUNTY SURVEYOR
L.S. No. 8570, EXPIRES 03/31/2023

DATE:

LEGEND:

- △ = PRIMARY CONTROL
- ⊕ = PROJECT SURVEY CONTROLS

0000 POINT NUMBER
00.00 ELEVATION
XXXX DESCRIPTION

BENCHMARK STATEMENT:

THE ELEVATIONS SHOWN ON THIS SURVEY WERE BASED ON NAVD-88.

THE SITE BENCHMARK IS BKF CONTROL POINT NO.1 – A MAG NAIL AND WASHER SET IN THE ASPHALT NEAR THE EDGE OF PAVEMENT ON THE EAST SIDE OF HIGHWAY 1 NORTH OF MIRADA ROAD.

ELEVATION = 69.41

BASIS OF BEARINGS:

THE BEARINGS WERE BASED ON NAD 83, CALIFORNIA COORDINATE SYSTEM OF 1983, EPOCH 2011. DISTANCES SHOWN HEREON ARE GROUND LEVEL DISTANCES. MULTIPLY DISTANCES BY 0.99999714 TO OBTAIN GRID DISTANCES.

THE BEARING N50°35'00"W AS SHOWN BETWEEN THE TWO MAG NAILS SET ON THE EAST SIDE OF HIGHWAY 1 WAS USED AS THE BASIS OF BEARINGS.

CP # 1 (MAG NAIL)	CP # 3 (MAG NAIL)
N: 2008449.75	N: 2008640.64
E: 5994739.05	E: 5994506.80

PROJECT SURVEY CONTROL						
POINT NO.	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1	MAG & WASH CP#1	'MT' 43+97.49	26.7' RT	69.41'	2008449.75	5994739.05
2	MAG & WASH	OUT OF RANGE	OUT OF RANGE	61.35'	2008233.78	5994930.34
3	MAG & WASH CP#3	'MT' 40+94.76	42.0' RT	74.27'	2008640.64	5994506.80
4	MAG & WASH	'MT' 39+93.74	53.3' RT	74.68'	2008705.16	5994406.44
5	MAG & WASH	'MT' 35+58.28	67.7' RT	69.91'	2008889.54	5994054.28
6	MAG & WASH	'MT' 31+71.90	58.3' RT	58.23'	2009065.83	5993718.39
7	MAG & WASH	'MT' 28+67.30	59.7' RT	47.96'	2009202.36	5993446.10
8	MAG & WASH	'MT' 25+69.27	60.2' RT	41.20'	2009336.74	5993180.08
9	MAG & WASH	'MT' 22+61.89	10.3' RT	37.30'	2009474.96	5992917.06
10	MAG & WASH	'MT' 19+02.98	53.1' RT	35.08'	2009647.58	5992572.54
11	MAG & WASH	'MT' 15+52.54	75.5' RT	33.31'	2009782.53	5992305.38
12	MAG & WASH	'MT' 12+64.42	76.4' RT	31.33'	2009913.69	5992048.85
13	MAG & WASH	'MT' 09+12.71	77.3' RT	29.43'	2010074.00	5991735.80
14	MAG & WASH	'MT' 06+21.14	68.7' RT	27.19'	2010214.35	5991480.34
15	MAG & WASH	'MT' 03+28.28	68.3' RT	25.29'	2010348.14	5991219.82
16	MAG & WASH	'MT' 00+00.18	21.7' RT	22.60'	2010494.93	5990944.54
17	MAG & WASH	OUT OF RANGE	OUT OF RANGE	20.81'	2010545.85	5990702.12

APPROVED DATE: 12-23-2021

NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE: 12/23/2021

ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY OF SAN MATEO
R.C.E. # 47882 / EXPIRES 12-31-2021

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
SURVEY CONTROL PLAN

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

SCALE: 1" = 75'
DATE: 12/08/2021
FILE NO.: 1/4952

PC-2
SHEET 5 OF 38

DRAWING NAME: K:\Eng14\140242\SHEETS\C0.03-Survey_Control_Plan.dwg
PLOT TIME: 12-09-21

APPROVED:
DATE: 12/23/2021
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA

DEMOLITION LEGEND

CLEARING AND GRUBBING
ASPHALT TO BE REMOVED
CONCRETE TO BE REMOVED

GRAPHIC SCALE
20 0 20 40

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
EXISTING CONDITION/DEMOLITION PLAN
STA 00+00 TO STA 13+00

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952
C-100

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA

DEMOLITION LEGEND

- CLEARING AND GRUBBING
- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED

GRAPHIC SCALE
20 0 20 40

APPROVED DATE: 12-23-2021	APPROVED DATE:
NICHOLAS CALDERON, PARKS DIRECTOR	JASON MANSFIELD, PROJECT MANAGER
SMC PARKS DEPARTMENT	BKF ENGINEERS
	R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
EXISTING CONDITION/DEMOLITION PLAN
STA 13+00 TO STA 26+20

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

C-1.01

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
No. C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA

DEMOLITION LEGEND

- CLEARING AND GRUBBING
- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED

GRAPHIC SCALE

20 0 20 40

NOTES:

1. TREES SHOWN TO BE REMOVED OUTSIDE OF PROPOSED IMPROVEMENTS ARE CONTINGENT ON BRIDGE STAGING AND PLACEMENT. CONTRACTOR TO PROVIDE BRIDGE INSTALLATION PLAN THAT DETAILS THE BRIDGE STAGING AREA, BRIDGE MOVEMENT PATH, THE ANTICIPATED TREES TO BE REMOVED, A UTILITY STRUCTURE BUFFER, AND TRAFFIC HANDLING, TO BE APPROVED BY THE COUNTY OF SAN MATEO.
2. LIMITS OF INTERSECTION DEMOLITION: REFERENCE SHEETS C-6.01 AND C6.02, INTERSECTION DETAILS.

APPROVED DATE: 12-23-2021	APPROVED DATE:
NICHOLAS CALDERON, PARKS DIRECTOR	JASON MANSFIELD, PROJECT MANAGER
SMC PARKS DEPARTMENT	BKF ENGINEERS
	R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
EXISTING CONDITION/DEMOLITION PLAN
STA 26+20 TO STA 39+60

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-102

DRAWING NAME: K:\Eng1\140242\SHEETS\C1.XX-EXISTING_CONDITION_DEMO.dwg
PLOT TIME: 12-09-21

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA

DEMOLITION LEGEND

- CLEARING AND GRUBBING
- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED

GRAPHIC SCALE

20 0 20 40

NOTES:

1. LIMITS OF INTERSECTION DEMOLITION: REFERENCE SHEETS C-6.03, INTERSECTION DETAILS.
2. THE CONTRACTOR SHALL NOT USE THE EL GRANADA ELEMENTARY SCHOOL PARKING LOT FOR CONSTRUCTION ACCESS, OR AS A STAGING AREA.

APPROVED DATE: 12-23-2021

NICHOLAS CALDERON, PARKS DIRECTOR

SMC PARKS DEPARTMENT

APPROVED DATE:

JASON MANSFIELD, PROJECT MANAGER

BKF ENGINEERS

R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER JASON CONRAD MANSFIELD No. C 59567 EXP. 12-31-23 CIVIL STATE OF CALIFORNIA

BKF ENGINEERS/SURVEYORS/PLANNERS

255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL

EXISTING CONDITION/DEMOLITION PLAN
STA 39+60 TO 45+93 AND STA 50+10 TO 54+50

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

C-103

DRAWING NAME: K:\Eng\1\140242\SHEETS\C1_XX-EXISTING_CONDITION_DEMO.dwg
PLOT TIME: 12-08-21

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
No. C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA

PLAN
SCALE: 1" =20'

PROFILE
SCALE: HORIZONTAL 1" =20'
VERTICAL 1" = 20'

NOTES:

1. SEE C-0.02 AND C-0.03 FOR SURVEY CONTROL PLAN.
2. REFERENCE IS MADE TO THE SPECIAL PROVISIONS IN SECTION 26, "AGGREGATE BASE (CLASS 2)," OF THE PROJECT SPECIFICATIONS FOR COMPACTION REQUIREMENTS AT THIS LOCATION.

GRAPHIC SCALE
20 0 20 40

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO
PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
PLAN & PROFILE
STA 00+00 TO STA 06+40

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-2.00

DRAWING NAME: K:\Eng14\140242\SHEETS\C2.XX-PLAN_PROFILE.dwg
PLOT TIME: 12-08-21

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA

PLAN
SCALE: 1" =20'

PROFILE
SCALE: HORIZONTAL 1" =20'
VERTICAL 1" = 20'

NOTES:

1. SEE C-0.02 AND C-0.03 FOR SURVEY CONTROL PLAN.

GRAPHIC SCALE
20 0 20 40

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO
PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
PLAN & PROFILE
STA 06+40 TO STA 13+00

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-2.01

ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

PLAN
SCALE: 1" =20'

PROFILE
SCALE: HORIZONTAL 1" =20'
VERTICAL 1" = 20'

NOTES:

1. SEE C-0.02 AND C-0.03 FOR SURVEY CONTROL PLAN.

GRAPHIC SCALE
20 0 20 40

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

JASON CONRAD MANSFIELD No. C 59567 EXP. 12-31-23 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

BKF ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
PLAN & PROFILE
STA 13+00 TO STA 19+60

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-2.02

POTHOLING DATA TABLE								
POTHOLE #	STREET	CUT SIZE	SOIL	UTILITY	UTILITY SIZE	MATERIAL	DEPTH	LOCATION REFERENCE/NOTES
1B	311 MAGELLAN AVE	1' X 2'	CLAY, ROCKS	SANITARY SEWER	10"	ASBESTOS CEMENT	87"	45' NW FROM EDGE OF ASPHALT. 7' NE FROM NO PARKING SIGN
2	311 MAGELLAN AVE	1' X 2'	CLAY, ROCKS	WATER	10"	STEEL	55"	45' NW FROM EDGE OF ASPHALT. 17' NE FROM NO PARKING SIGN
5	CA-1 & MAGELLAN AVE.	1' X 1'	HARD DIRT, CLAY	WATER	10"	STEEL		NO VISUAL, TOO MUCH GROUND WATER. POSSIBLE DEPTH AT 11.5'. POTHOLE IS LOCATED 20' NW FROM STOP SIGN. 15' SW FROM WHITE STOP LINE.
6	CA-1 & MAGELLAN AVE.	1' X 1'	HARD DIRT, CLAY	SANITARY SEWER	10"	ASBESTOS CEMENT	173"	34' NW FROM STOP SIGN. 13' SW FROM WHITE STOP LINE.

NOTES:

1. POTHOLE INFORMATION DETERMINED BY EXARO TECHNOLOGIES CORPORATION ON 5/6/2019, AND 5/7/2019.

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA

PLAN
SCALE: 1" =20'

PROFILE
SCALE: HORIZONTAL 1" =20'
VERTICAL 1" = 20'

NOTES:

1. SEE C-0.02 AND C-0.03 FOR SURVEY CONTROL PLAN.

GRAPHIC SCALE
20 0 20 40

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER JASON CONRAD MANSFIELD No. C 59567 EXP. 12-31-23 CIVIL STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
PLAN & PROFILE
STA 19+60 TO STA 26+20

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-2.03
SHEET 13 OF 38

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

PLAN
SCALE: 1" =20'

PROFILE
SCALE: HORIZONTAL 1" =20'
VERTICAL 1" = 20'

NOTES:

1. SEE C-0.02 AND C-0.03 FOR SURVEY CONTROL PLAN.
2. AREA WITHIN THE ESA FENCING IS DESIGNATED AS ARCHAEOLOGICAL RESOURCE SITE CA-SMA-149 AS IDENTIFIED IN THE ESA ACTION PLAN.
3. CONTRACTOR SHALL REFERENCE MITIGATION MEASURE CULT-1B, AS LISTED UNDER THE AVOIDANCE AND MITIGATION MEASURES INCLUDED IN APPENDIX G OF THE PROJECT SPECIFICATIONS.

GRAPHIC SCALE
20 0 20 40

APPROVED DATE: 12-23-2021	APPROVED DATE:
NICHOLAS CALDERON, PARKS DIRECTOR	JASON MANSFIELD, PROJECT MANAGER
SMC PARKS DEPARTMENT	BKF ENGINEERS
	R.C.E. # 59567 / EXPIRES 12-31-2023

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
PLAN & PROFILE
STA 26+20 TO STA 32+90

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-2.04

POTHOLING DATA TABLE								
POTHOLE #	STREET	CUT SIZE	SOIL	UTILITY	UTILITY SIZE	MATERIAL	DEPTH	LOCATION REFERENCE/NOTES
1A	CA-1 & MIRAMAR DRIVE	1.5' X 1'	ROCKS, CLAY, MUD	FM/SANITARY SEWER	18"	PVC	16.5'	56' NW FROM EDGE OF ROAD. 32' NE FROM GUARD RAIL
3	NW CORNER OF CA-1 & MIRAMAR DRIVE	1' X 2'	CLAY, ROCKS	WATER	10"	STEEL		NO VISUAL, TOO MUCH GROUND WATER. POSSIBLE DEPTH AT 104". POTHOLE IS LOCATED 55' NW FROM EDGE OF ASPHALT. 27' NE FROM GUARD RAIL.
4	SE CORNER OF CA-1 & FURTADO LANE	1' X 2'	HARD DIRT, CLAY	WATER	10"	STEEL		NO VISUAL, TOO MUCH GROUND WATER. POSSIBLE DEPTH AT 13'. POTHOLE IS LOCATED 28' NE FROM GUARD RAIL. 60' SE FROM EDGE OF ASPHALT.

NOTES:

1. POTHOLE 1A INFORMATION DETERMINED BY EXARO TECHNOLOGIES CORPORATION ON 12/14/2018.
2. POTHOLE 3 AND 4 INFORMATION DETERMINED BY EXARO TECHNOLOGIES CORPORATION ON 5/6/2019, AND 5/7/2019.

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

PLAN
SCALE: 1" = 20'

PROFILE
SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 20'

NOTES:

1. SEE C-0.02 AND C-0.03 FOR SURVEY CONTROL PLAN.
2. (E)ABANDONED SEWER LINE IS IN CONFLICT WITH (P)BRIDGE PIERS. CONTRACTOR TO REMOVE SEGMENT OF (E)PIPE AS REQUIRED TO INSTALL PROPOSED IMPROVEMENTS. CONTRACTOR TO COORDINATE REMOVAL OF (E)PIPE WITH COUNTY, ENGINEER, AND SEWER AUTHORITY MID-COASTSIDE.

GRAPHIC SCALE
20 0 20 40

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
PLAN & PROFILE
STA 32+90 TO STA 39+60

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
No. C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA

PLAN
SCALE: 1" =20'

PROFILE
SCALE: HORIZONTAL 1" =20'
VERTICAL 1" = 20'

NOTES:

1. SEE C-0.02 AND C-0.03 FOR SURVEY CONTROL PLAN.

GRAPHIC SCALE
20 0 20 40

K:\Eng14\140242\SHEETS\C2.XX-PLAN_PROFILE.dwg
DRAWING NAME:
PLOT TIME: 12-08-21

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
PLAN & PROFILE
STA 39+60 TO STA 45+93

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

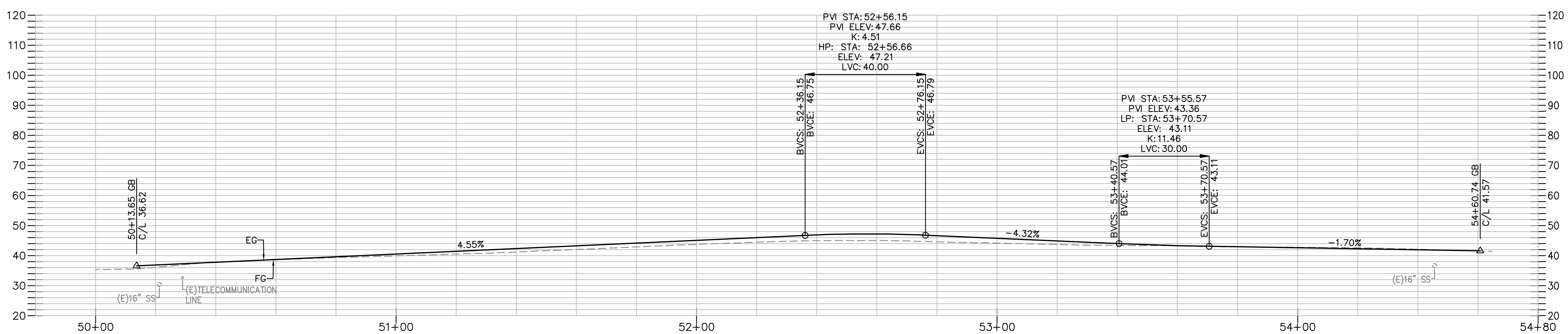
555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-2.06

PLAN
SCALE: 1" =20'



PROFILE
SCALE: HORIZONTAL 1" =20'
VERTICAL 1" = 20'

NOTES:

1. SEE C-0.02 AND C-0.03 FOR SURVEY CONTROL PLAN.
2. THE CONTRACTOR SHALL NOT USE THE EL GRANADA ELEMENTARY SCHOOL PARKING LOT FOR CONSTRUCTION ACCESS, OR AS A STAGING AREA.

GRAPHIC SCALE
20 0 20 40

APPROVED:
DATE: 12/23/2021
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER JASON CONRAD MANSFIELD No. C 59567 EXP. 12-31-23 CIVIL STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
PLAN & PROFILE
STA 50+10 TO STA 54+50

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952
C-2.07
SHEET 17 OF 38

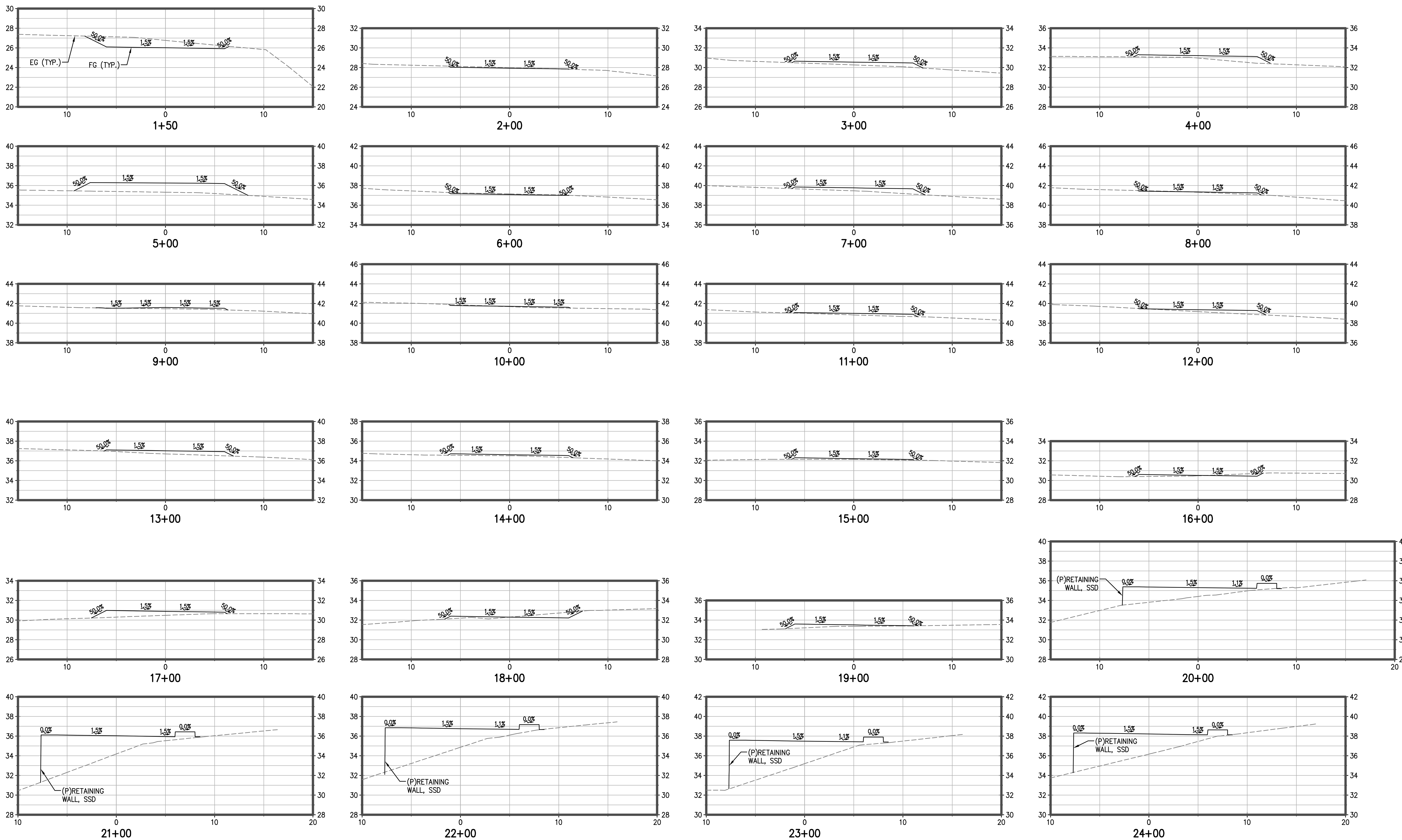
DRAWING NAME: K:\Eng21\142242\SHEETS\C2.XX-PLAN_PROFILE.dwg
PLOT TIME: 12-08-21

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA



SCALE: HORIZONTAL 1" =10'
VERTICAL 1" = 10'

NOTE:

1. CONTRACTOR TO MAINTAIN EXISTING DRAINAGE PATTERNS.

APPROVED DATE: 12-23-2021

NICHOLAS CALDERON, PARKS DIRECTOR

SMC PARKS DEPARTMENT

APPROVED DATE:

JASON MANSFIELD, PROJECT MANAGER

BKF ENGINEERS

R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO
PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL

CROSS SECTIONS

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

C-3.00
SHEET 18 OF 38

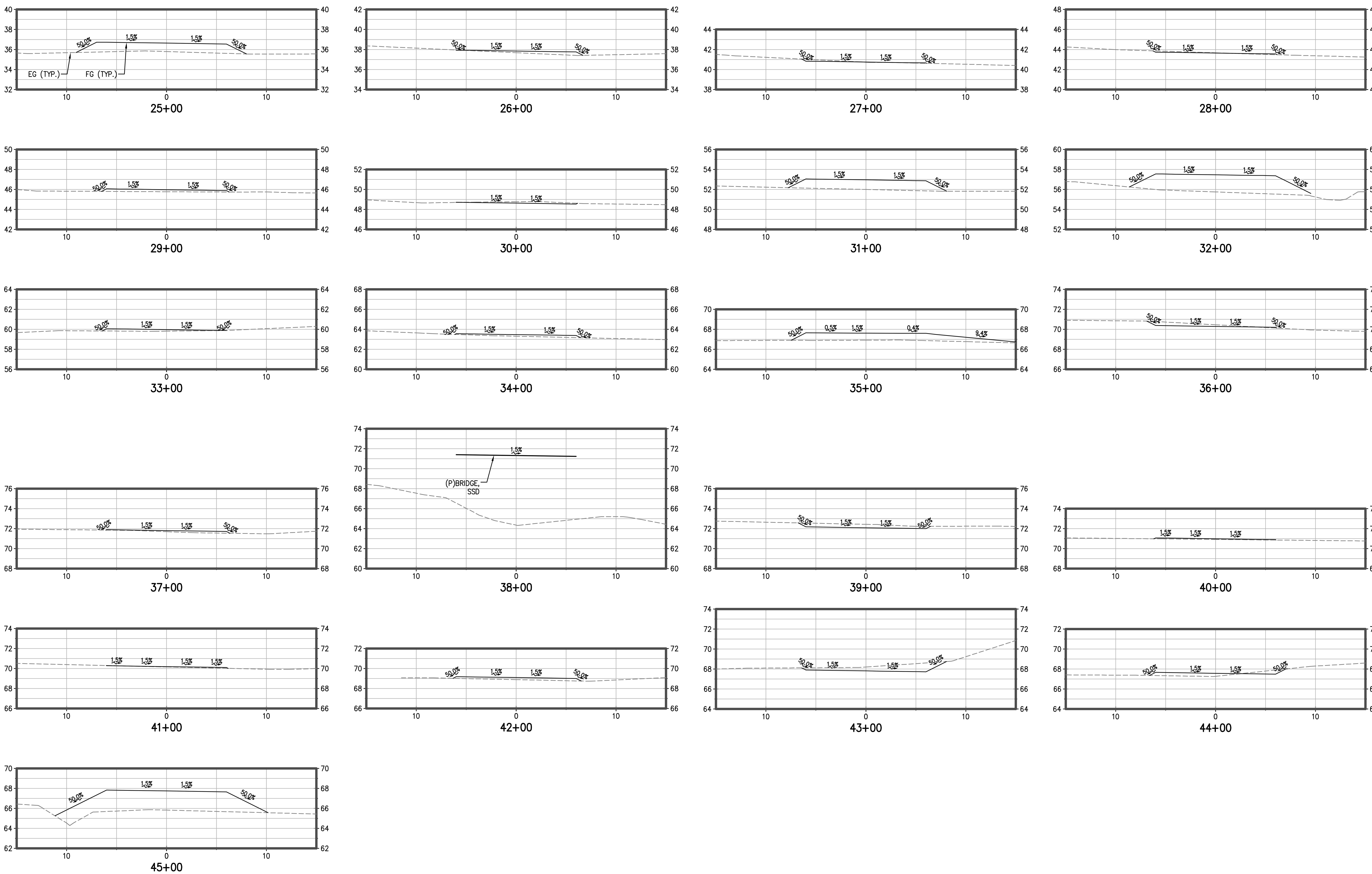
DRAWING NAME: K:\Eng14\140242\SHEETS\C3.00-X-SEC.dwg
PLOT TIME: 12-08-21

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA



NOTE:

1. CONTRACTOR TO MAINTAIN EXISTING DRAINAGE PATTERNS.

SCALE: HORIZONTAL 1" =10'
VERTICAL 1" = 10'

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL

CROSS SECTIONS

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-3.01

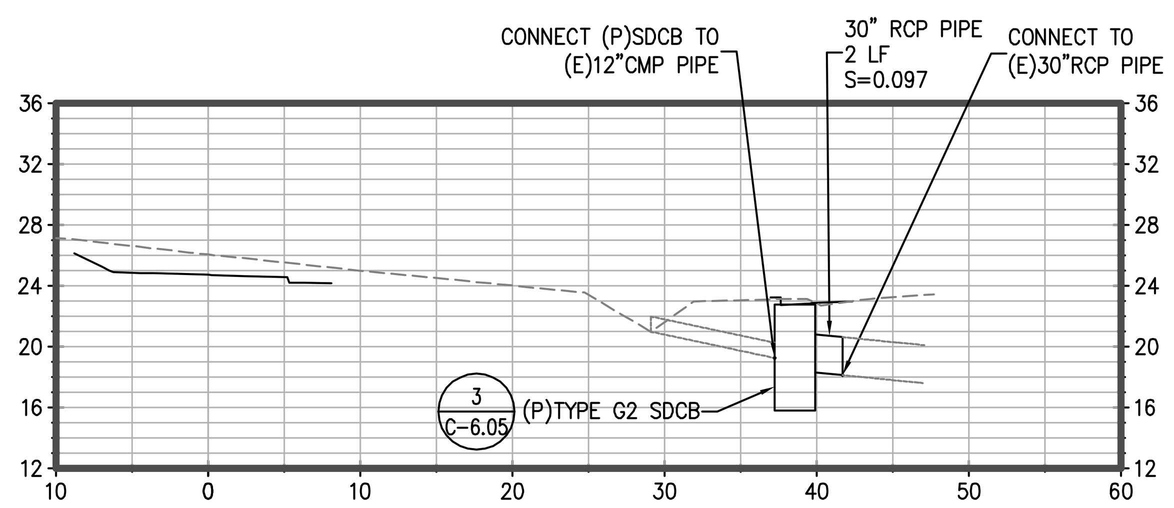
SHEET 19 OF 38

APPROVED:

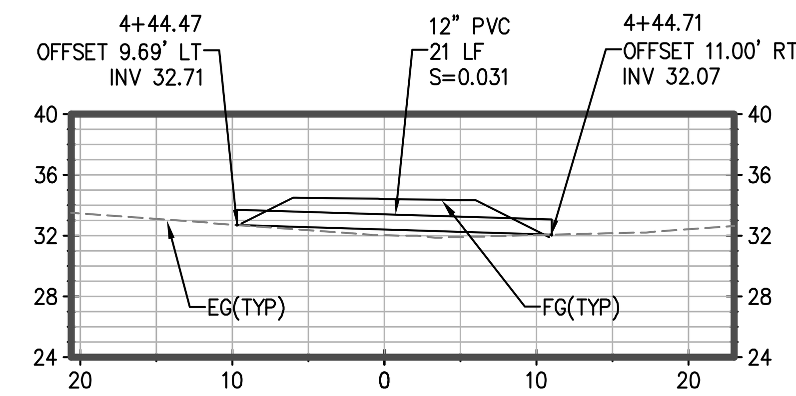
DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

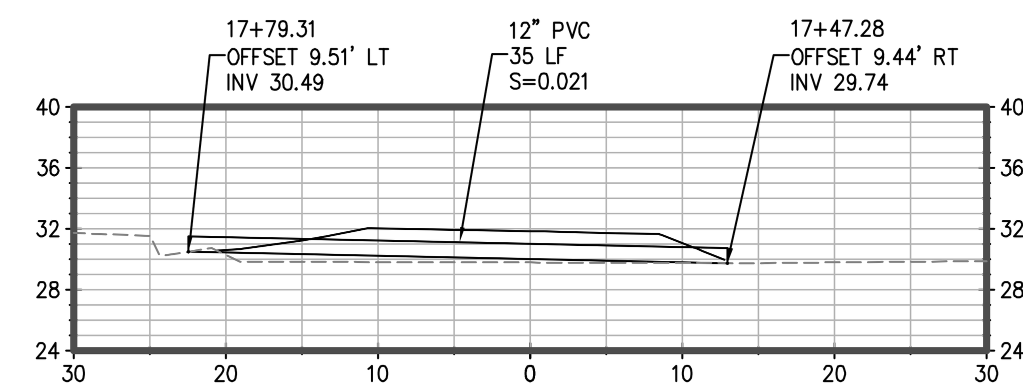
REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA



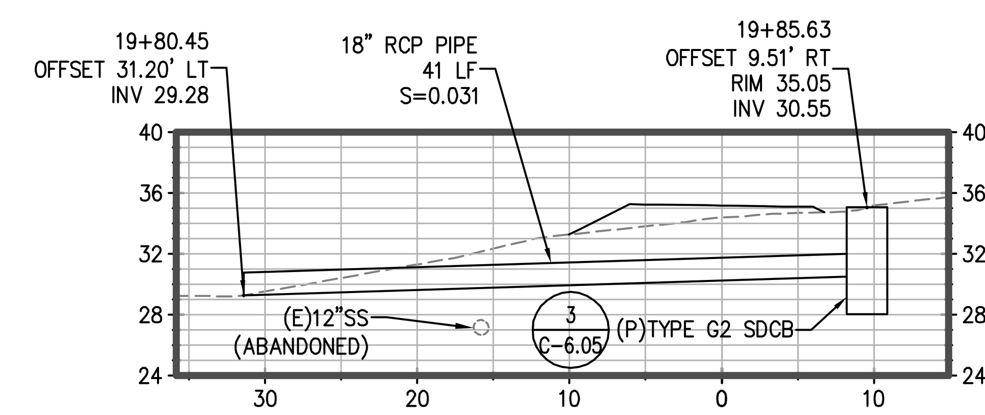
1 SD LINE STA 1+21
NTS



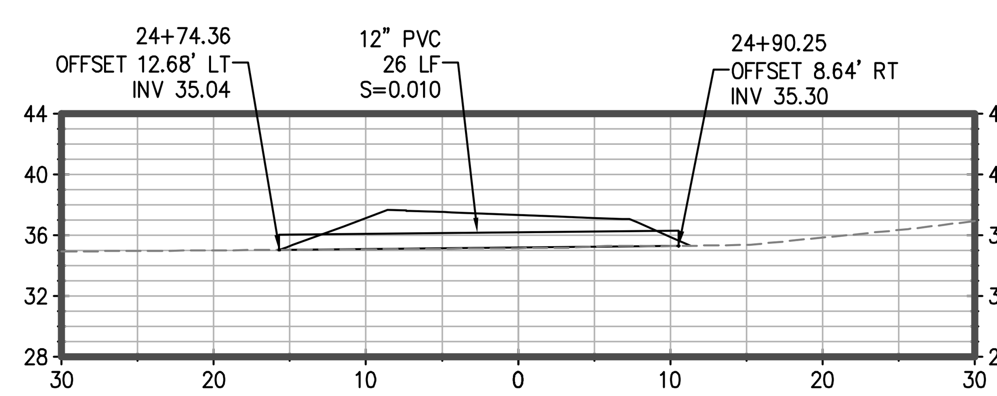
2 SD CULVERT STA 4+45
NTS



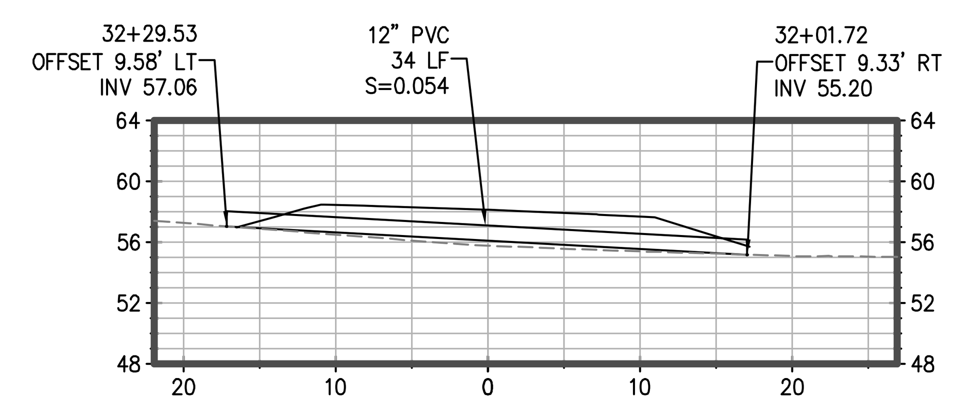
3 SD CULVERT STA 17+56
NTS



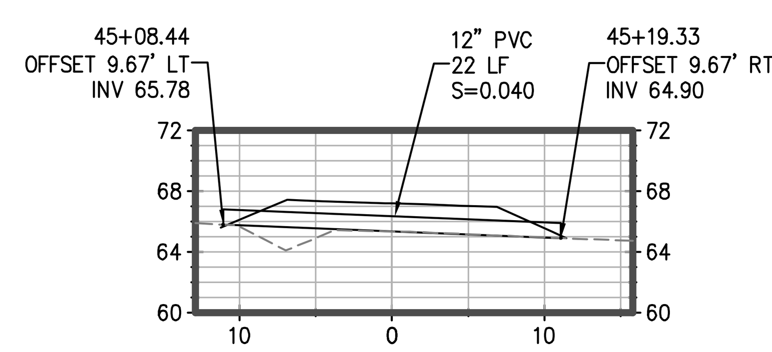
4 SD LINE STA 19+85
NTS



5 SD CULVERT STA 24+84
NTS



6 SD CULVERT STA 32+16
NTS



7 SD CULVERT STA 45+14
NTS

CROSS SECTIONS
SCALE: HORIZONTAL 1" =10'
VERTICAL 1" = 10'

GRAPHIC SCALE
10 0 10 20

DRAWING NAME: K:\Eng14\140242\SHEETS\C3.01-UTILITY-X-SEC.dwg
PLOT TIME: 12-08-21

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER JASON CONRAD MANSFIELD No. C 59567 EXP. 12-31-23 CIVIL STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
STORM DRAIN PROFILES

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-3.02

LEGEND:

AC PAVEMENT (1 / C-0.02)
DG SHOULDER (1 / C-0.02)
CONCRETE (4" CONCRETE/6" CLASS II AB)

APPROVED:
DATE: 12/23/2021
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER · ANN MADER STILLMAN · C 47882 · EXPIRES 12/31/23 · CIVIL · STATE OF CALIFORNIA

DRAWING NAME: K:\Eng19\140242\SHEETS\C4_XX-SIGN_STRIPING.dwg
PLOT TIME: 12-08-21

APPROVED DATE: 12-23-2021	APPROVED DATE:
NICHOLAS CALDERON, PARKS DIRECTOR	JASON MANSFIELD, PROJECT MANAGER
SMC PARKS DEPARTMENT	BKF ENGINEERS
	R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER · JASON CONRAD MANSFIELD · No. C 59567 · EXP. 12-31-23 · CIVIL · STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
SIGNING AND STRIPING PLANS
STA 0+00 TO STA 13+00

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-4.00

LEGEND:

- AC PAVEMENT (1 / C-0.02)
- DG SHOULDER (1 / C-0.02)
- CONCRETE (4" CONCRETE/6" CLASS II AB)

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA

GRAPHIC SCALE
20 0 20 40

APPROVED DATE: 12-23-2021	APPROVED DATE:
NICHOLAS CALDERON, PARKS DIRECTOR	JASON MANSFIELD, PROJECT MANAGER
SMC PARKS DEPARTMENT	BKF ENGINEERS
	R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
SIGNING AND STRIPING PLAN
STA 13+00 TO STA 26+20

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-4.01

DRAWING NAME: K:\Eng14\140242\SHEETS\C4.XX-SIGN_STRIPING.dwg
PLOT TIME: 12-08-21

APPROVED:
DATE: 12/23/2021
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER — ANN MADER STILLMAN — C 47882 — EXPIRES 12/31/23 — CIVIL — STATE OF CALIFORNIA

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER — JASON CONRAD MANSFIELD — No. C 59567 — EXP. 12-31-23 — CIVIL — STATE OF CALIFORNIA

BKF ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
SIGNING AND STRIPING PLAN
STA 26+20 TO STA 39+60

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

C-4.02
SHEET 23 OF 38

LEGEND:

- AC PAVEMENT (1 / C-0.02)
- DG SHOULDER (1 / C-0.02)
- CONCRETE (4" CONCRETE/6" CLASS II AB)

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA

APPROVED DATE: 12-23-2021	APPROVED DATE:
NICHOLAS CALDERON, PARKS DIRECTOR	JASON MANSFIELD, PROJECT MANAGER
SMC PARKS DEPARTMENT	BKF ENGINEERS
	R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER JASON CONRAD MANSFIELD No. C 59567 EXP. 12-31-23 CIVIL STATE OF CALIFORNIA

BKF ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
SIGNING AND STRIPING PLAN
STA 39+60 TO 45+93 AND STA 50+10 TO 54+50

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

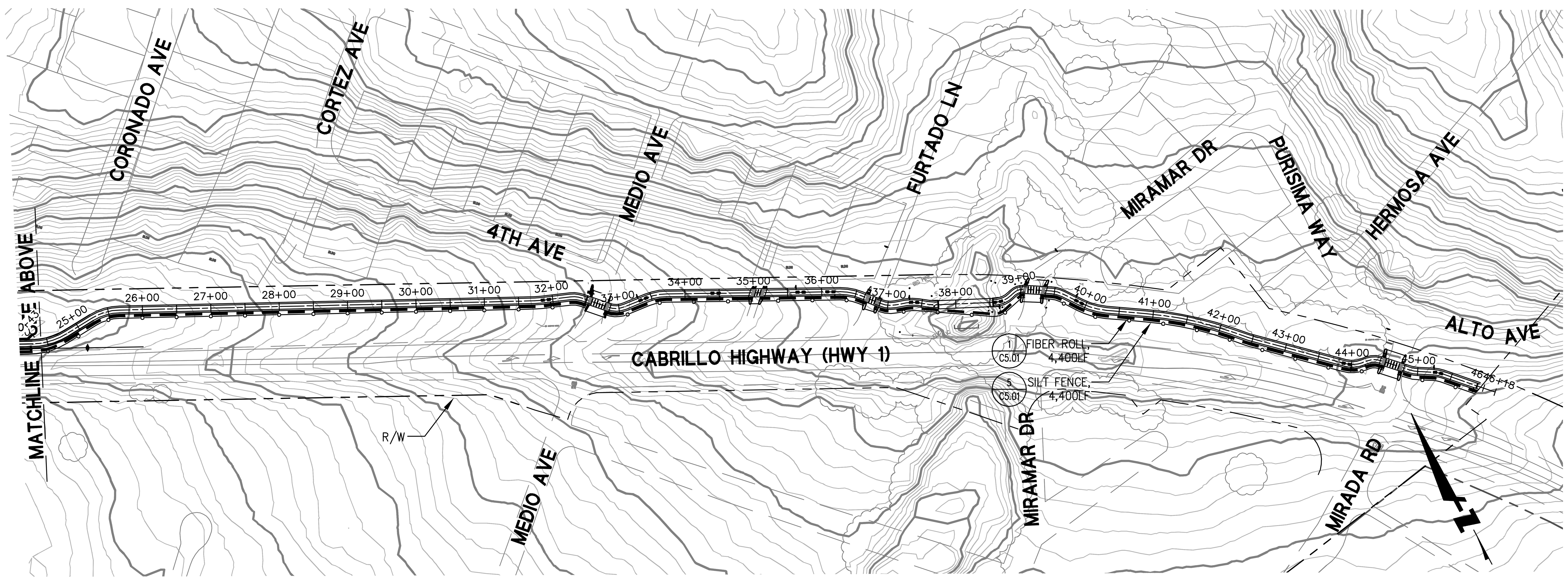
C-4.03

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA



LEGEND:

FIBER ROLL
SILT FENCE

GRAPHIC SCALE
100 0 100 200

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER JASON CONRAD MANSFIELD No. C 59567 EXP. 12-31-23 CIVIL STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL

EROSION CONTROL PLAN

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

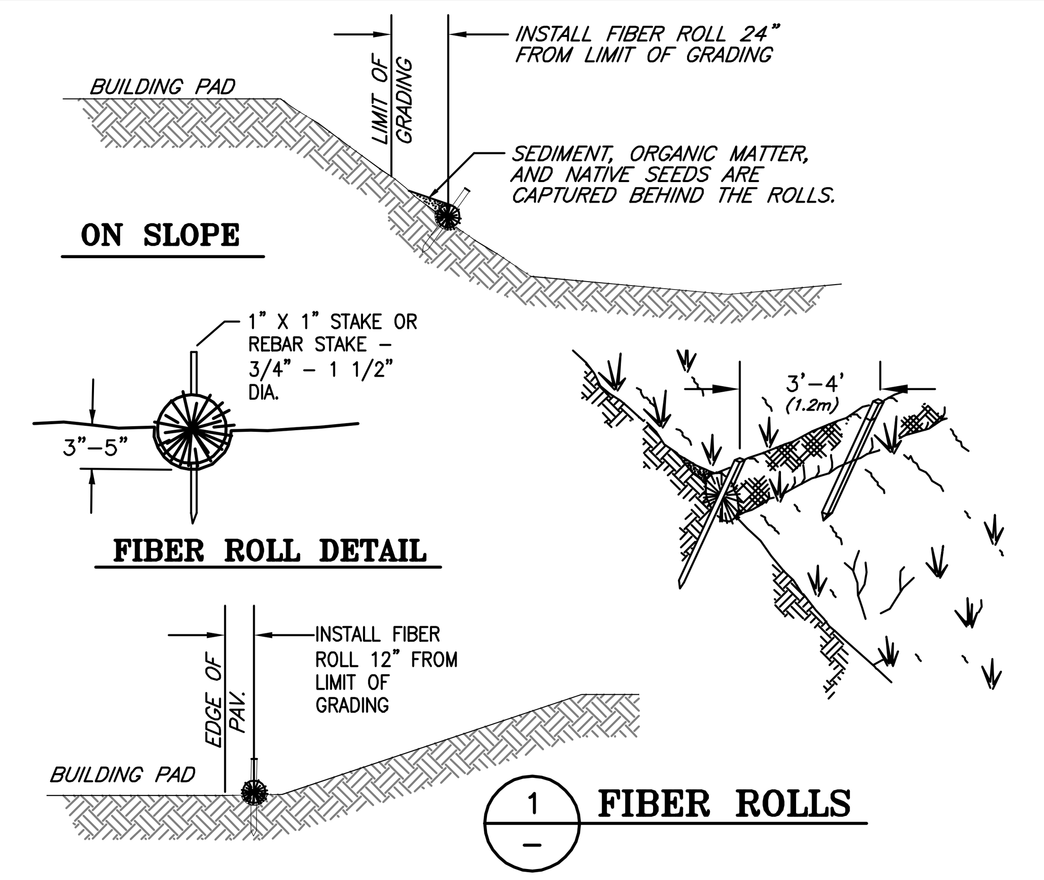
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: 1" = 100'
DATE: 12/08/2021
FILE NO.: 1/4952

C-5.00
SHEET 25 OF 38

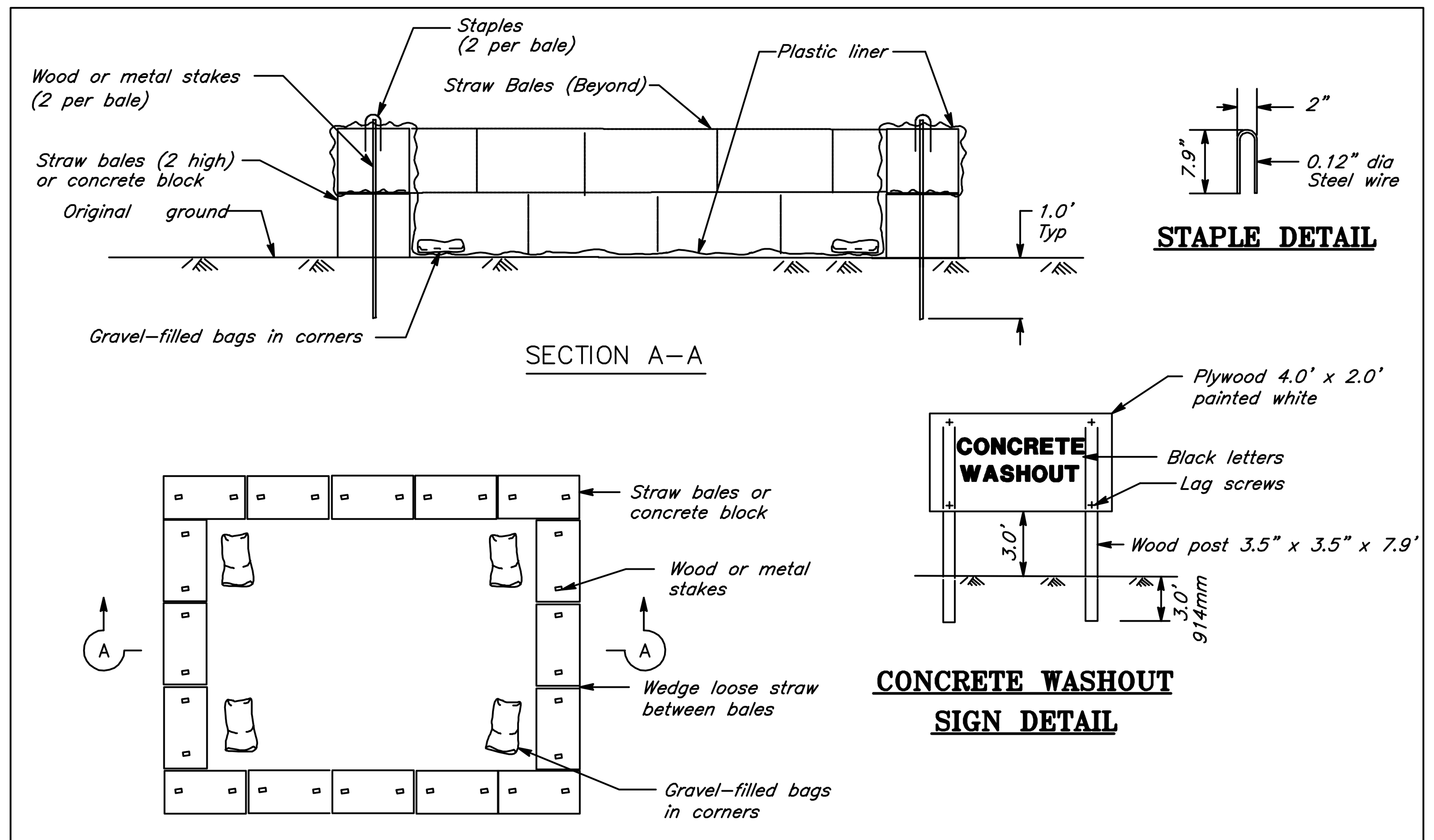
DRAWING NAME: K:\Eng14\140242\SHEETS\C5.XX-EROSION_CONTROL_PLAN.dwg
PLOT TIME: 12-08-21

EROSION CONTROL DETAILS

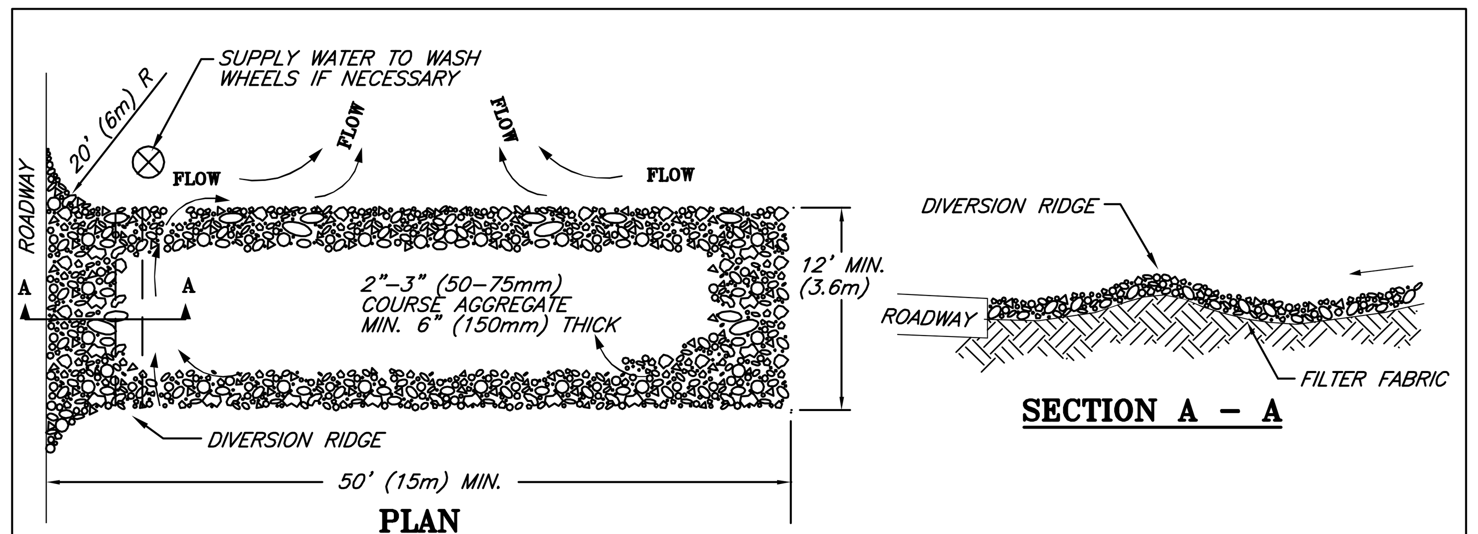


1 – FIBER ROLLS

NOTES:
1. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"–5" (75–125mm) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
2. FIBER ROLLS MUST BE PLACED ALONG SLOPE CONTOURS
3. INSTALL FIBER ROLLS ALONG BACK OF EXISTING CURB WHERE SHOWN ON PLAN.
4. FIBER ROLLS SHALL BE WEED FREE, AND PLASTIC NETTING FREE.

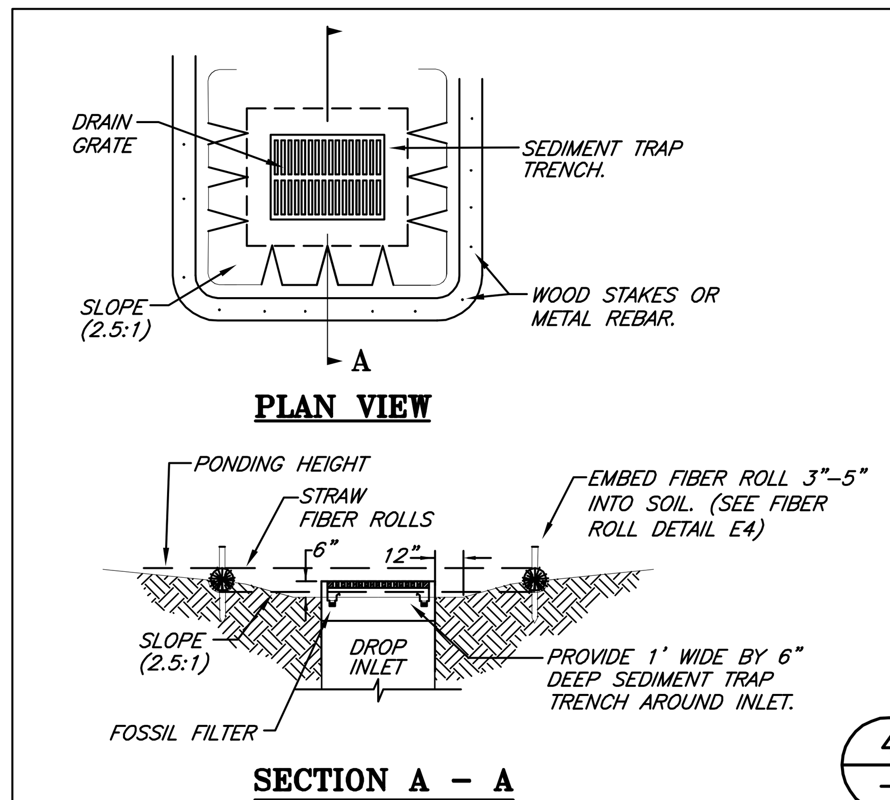


2 – TEMPORARY CONCRETE WASHOUT FACILITY (ABOVE-GRADE)



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

3 – TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT



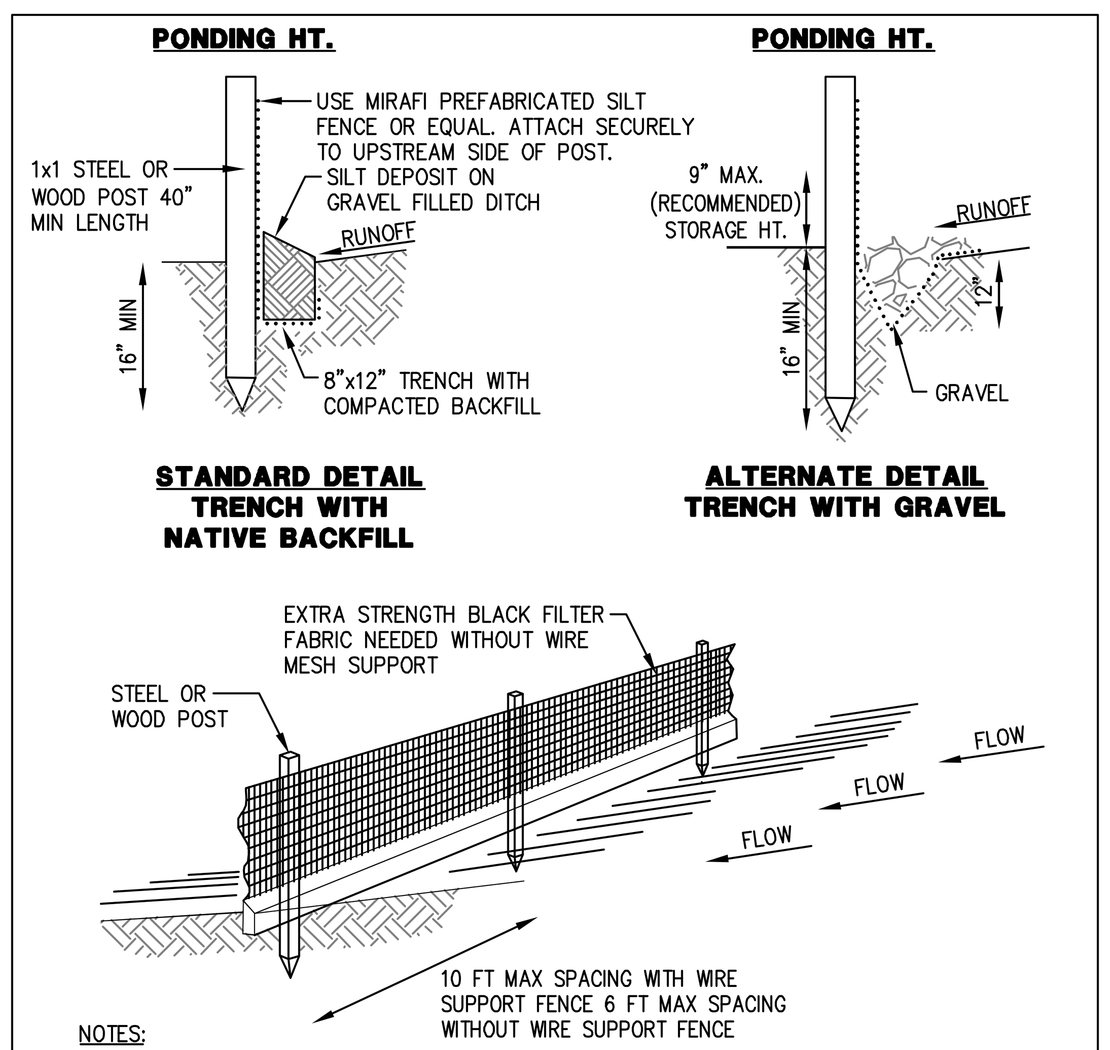
1. PLACE FIBER ROLL AROUND THE INLET CONSISTENT WITH BASIN SEDIMENT BARRIER DETAIL ON THIS SHEET. FIBER ROLLS ARE TUBES MADE FROM STRAW BOUND W/ PLASTIC NETTING. THEY ARE APPROXIMATELY 8" DIA. AND 20–30 FT. LONG.

2. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE FIBER ROLL IN A TRENCH, 3" – 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.

3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE NECESSARY.

4. FOSSIL FILTERS SHALL BE INCORPORATED IN ALL CATCH BASINS AND FIELD INLETS 24" AND LARGER AND SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS. FOSSIL FILTERS ARE AVAILABLE FROM KRISTAR ENTERPRISES INC., 422 LARKFIELD CENTER, SUITE 271, SANTA ROSA, CA 95403, PHONE (800) 579-8819.

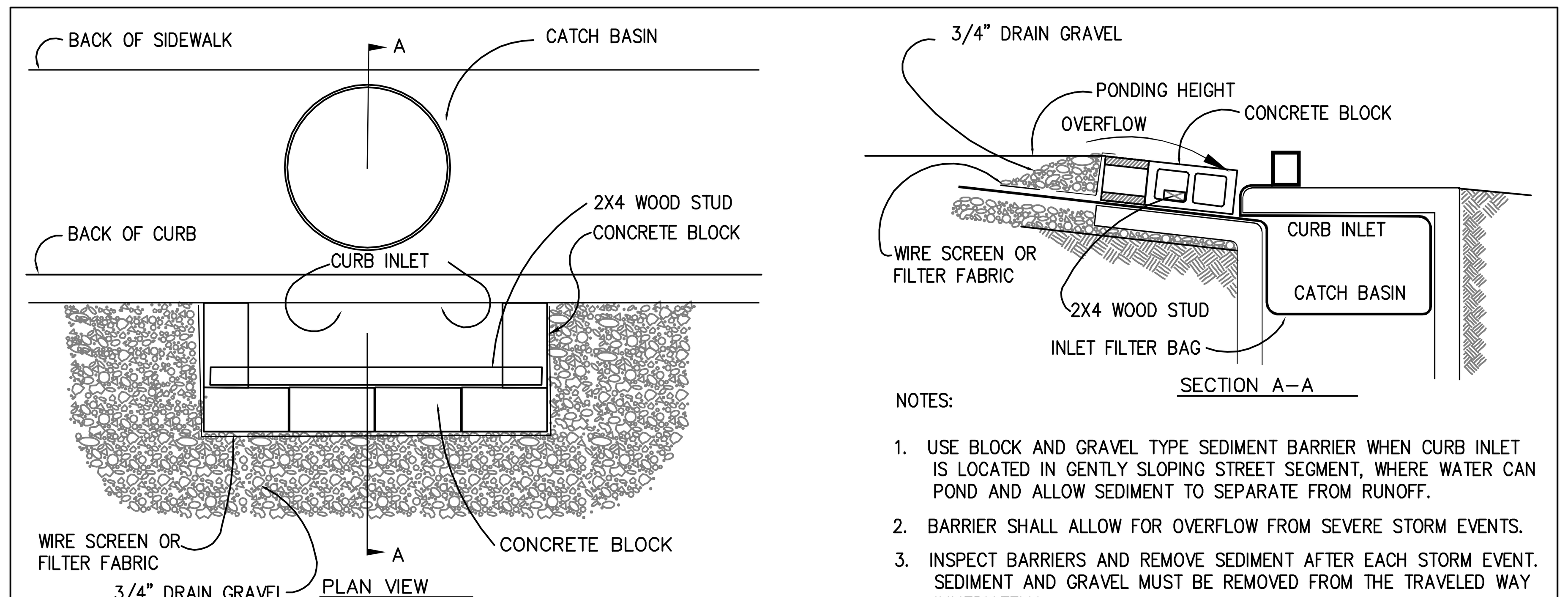
4 – DROP INLET SEDIMENT BARRIER



NOTES:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

5 – SILT FENCE



NOTES:

1. USE BLOCK AND GRAVEL TYPE SEDIMENT BARRIER WHEN CURB INLET IS LOCATED IN GENTLY SLOPING STREET SEGMENT, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BARRIER SHALL ALLOW FOR OVERFLOW FROM SEVERE STORM EVENTS.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
4. MODIFY AS NEEDED FOR INLET CONFIGURATION IN FIELD.

CURB INLET SEDIMENT BARRIER
(TIME FRAME: BETWEEN FINAL PAVING OPERATIONS AND PROJECT COMPLETION)

6 – CURB INLET SEDIMENT BARRIER

URBAN ROADWAY EROSION PREVENTION AND SEDIMENT CONTROL NOTES

1. PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF APPENDIX CHAPTER 33 OF THE CALIFORNIA BUILDING CODE, APPLICABLE SAN MATEO COUNTY REGULATIONS, AND SECTION 20 OF THE CALTRANS STANDARD SPECIFICATIONS.

2. THE APPROVED PLANS SHALL CONFORM WITH THE EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES CONTAINED IN THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS OR AN EQUIVALENT BEST MANAGEMENT PRACTICE:

   STORMWATER MANAGEMENT PLAN BY THE SAN MATEO COUNTYWIDE STORMWATER POLLUTION PREVENTION PROGRAM.
   EROSION AND SEDIMENT CONTROL FIELD MANUAL BY THE SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD.
   MANUAL OF STANDARDS FOR EROSION & SEDIMENT CONTROL MEASURES BY THE ASSOCIATION OF BAY AREA GOVERNMENTS.
   CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL BY CALTRANS.
   STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION.

3. IF DISCREPANCIES OCCUR BETWEEN THESE NOTES, MATERIAL REFERENCED HEREIN OR THE MANUFACTURER'S RECOMMENDATIONS, THEN THE MOST PROTECTIVE SHALL APPLY.

4. THE OWNER IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. CAS000002 WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY DISTURBING LAND EQUAL TO OR GREATER THAN ONE ACRE. CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO CLEARING, GRADING, EXCAVATION, STOCKPILING, AND RECONSTRUCTION OF EXISTING FACILITIES INVOLVING REMOVAL AND REPLACEMENT.

5. PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE.

6. THE OWNER IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION GENERATED FROM THE CONSTRUCTION SITE YEAR ROUND. THE OWNER MUST IMPLEMENT AN EFFECTIVE COMBINATION OF EROSION PREVENTION AND SEDIMENT CONTROL ON ALL DISTURBED AREAS DURING THE RAINY SEASON (OCTOBER 15 – APRIL 15).

7. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER BEFORE FORECASTED STORM EVENTS AND AFTER ACTUAL STORM EVENTS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. STORM EVENTS PRODUCE AT LEAST 1 INCH OF PRECIPITATION IN A 24 HOUR PERIOD. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT HAVE FAILED OR ARE NO LONGER EFFECTIVE SHALL BE PROMPTLY REPLACED. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.

8. CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE MADE TO RESPOND TO FIELD CONDITIONS. CHANGES SHALL BE NOTED ON THE PLAN WHEN MADE.

9. DISCHARGES OF POTENTIAL POLLUTANTS FROM CONSTRUCTION SITES SHALL BE PREVENTED USING SOURCE CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT, TRASH, NUTRIENTS, PATHOGENS, PETROLEUM HYDROCARBONS, METALS, CONCRETE, CEMENT, ASPHALT, LIME, PAINT, STAINS, GLUES, WOOD PRODUCTS, PESTICIDES, HERBICIDES, CHEMICALS, HAZARDOUS WASTE, SANITARY WASTE, VEHICLE OR EQUIPMENT WASH WATER AND CHLORINATED WATER.

10. ENTRANCE(S) TO THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF POTENTIAL POLLUTANTS OFFSITE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE CITY RIGHT-OF-WAY, SUCH AS ROADWAYS AND SIDEWALKS, SHALL BE PROPERLY DISPOSED OF AT THE END OF EACH WORKING DAY OR MORE FREQUENTLY AS NECESSARY.

11. THE OWNER SHALL PROTECT STORM DRAIN INLETS FROM POTENTIAL POLLUTANTS UNTIL DRAINAGE CONVEYANCE SYSTEMS ARE FUNCTIONAL AND CONSTRUCTION HAS BEEN COMPLETED.

12. ENERGY DISSIPATERS SHALL BE INSTALLED AT CONCENTRATED STORM DRAIN RUNOFF LOCATIONS WHICH MAY CONVEY STORM WATER FLOW LEADING TO SOIL EROSION.

13. SOIL AND MATERIAL STOCKPILES SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE.

14. SOLID WASTE, SUCH AS TRASH, DISCARDED BUILDING MATERIALS AND DEBRIS, SHALL BE PLACED IN DESIGNATED COLLECTION AREAS OR CONTAINERS. THE CONSTRUCTION SITE SHALL BE CLEARED OF SOLID WASTE DAILY, OR AS NECESSARY, AND REGULAR REMOVAL AND PROPER DISPOSAL SHALL BE ARRANGED.

15. A CONCRETE WASHOUT AREA, SUCH AS A TEMPORARY PIT, SHALL BE DESIGNATED TO CLEAN CONCRETE TRUCKS AND TOOLS. AT NO TIME SHALL CONCRETE PRODUCTS AND WASTE BE ALLOWED TO ENTER WATERWAYS SUCH AS CREEKS OR STORM DRAINS.

16. PROPER APPLICATION, CLEANING AND STORAGE OF POTENTIALLY HAZARDOUS MATERIALS, SUCH AS PAINTS AND CHEMICALS, SHALL BE CONDUCTED TO PREVENT THE DISCHARGE OF POLLUTANTS.

17. WHEN UTILIZED, TEMPORARY RESTROOMS AND SANITARY FACILITIES SHALL BE LOCATED AND MAINTAINED TO PREVENT THE DISCHARGE OF POLLUTANTS.

18. APPROPRIATE VEHICLE STORAGE, FUELING, MAINTENANCE AND CLEANING AREAS SHALL BE DESIGNATED AND MAINTAINED TO PREVENT DISCHARGE OF POLLUTANTS.

SUPPLEMENTAL EROSION CONTROL NOTES

1. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SEDIMENT STORM RUN- OFF FROM LEAVING THE SITE. FIBER ROLLS AND SAND BAGS SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.

2. AS THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO PUBLICLY AND/OR PRIVATELY OWNED AND MAINTAINED ROADS CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY. EROSION CONTROL MEASURES ARE REQUIRED DURING THE WET SEASON, STARTING OCTOBER 1 OF EACH YEAR. EROSION CONTROL FACILITIES SHALL BE MAINTAINED DAILY UNTIL APRIL 15.

3. THE NAME OF THE PERSON RESPONSIBLE FOR THE DAILY MAINTENANCE OF THESE FACILITIES SHALL BE ON RECORD WITH THE COUNTY OF SAN MATEO ALONG WITH A PHONE NUMBER WHERE THEY CAN BE REACHED 24 HOURS A DAY. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE STORM WATER INTO EXISTING AND PROPOSED STORM DRAIN FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED AND UPDATED EACH YEAR PRIOR TO SEPTEMBER 30 BY THE ENGINEER.

4. AS THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS, AND SUPPLIERS ARE AWARE OF ALL STORM WATER QUALITY MEASURES & IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED CONSTRUCTION WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS AND/OR A PROJECT STOP ORDER.

5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OPERABLE YEAR-ROUND OR UNTIL DISTURBED AREAS ARE STABILIZED.

6. DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT RUNOFF TO ANY STORM DRAIN SYSTEM.

7. AS THE OWNER'S REPRESENTATIVE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT ALL EROSION CONTROL FACILITIES AND REPAIR ANY DAMAGED FACILITIES BY THE END OF THE WORK DAY DURING THE RAINY SEASON.

8. BORROW AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES (TARPS, FIBER ROLLS, SILT FENCES ETC.) TO ENSURE SILT DOES NOT LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM. REFER TO EROSION CONTROL AND SEDIMENT CONTROL FIELD MANUAL, 3RD EDITION, PREPARED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SAN FRANCISCO BAY REGION.

9. ALL DIRT PILES AND HAUL TRUCKS SHALL BE COVERED.

10. DURING PERIODS WHEN STORMS ARE FORECAST –
    A. EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREAS.
    B. ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY.
    C. WHERE STOCKPILING IS NECESSARY, USE A TARPAULIN OR SURROUND THE STOCKPILED MATERIAL WITH STRAW BALES, FIBER ROLL, OR OTHER RUNOFF CONTROLS.
    D. USE INLET CONTROLS (E.G. FILTER MAT) FOR STORM DRAINS ADJACENT TO THE STOCKPILED SOIL.
    E. THOROUGHLY SWEEP ALL PAVED AREAS EXPOSED TO SOIL EXCAVATION AND PLACEMENT.

11. DURING PERIODS WHEN STORMS ARE NOT FORECAST –
    A. PREVENT STOCKPILED MATERIAL FROM ENTERING THE STORM DRAIN SYSTEM
    B. THOROUGHLY REMOVE LOOSE SOIL VIA SWEEPING FOLLOWING REMOVAL OF DIRT.

12. DRAINAGE INLET SEDIMENT BARRIERS SHALL BE INSTALLED AS SOON AS THE STORM DRAINAGE SYSTEM IS INSTALLED.

13. PRIOR TO PAVING, FIBER ROLLS SHALL BE INSTALLED AROUND EACH DROP INLET AND CURB INLET PER DETAIL 1. AFTER PAVING IS COMPLETE AROUND EACH DROP INLET, BLOCK AND GRAVEL SEDIMENT BARRIERS SHALL BE INSTALLED AROUND THE DROP INLETS AND CURB INLETS PER DETAIL 2 UNTIL ALL EXPOSED EARTHEN AREAS HAVE BEEN STABILIZED AND THE ROADWAY FACILITY IS OPERATIONAL.

14. THE LOCATIONS OF THE TEMPORARY CONCRETE WASHOUT FACILITY AND TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT CAN BE DECIDED BY THE CONTRACTOR UPON APPROVAL BY THE COUNTY OF SAN MATEO.

REGISTERED PROFESSIONAL ENGINEER – ANN MADER STILLMAN – No. C 47882 – EXPIRES 12/31/23 – CIVIL – STATE OF CALIFORNIA

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12–31–2023

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12–31–2023

REGISTERED PROFESSIONAL ENGINEER – JASON CONRAD MANSFIELD – No. C 59567 – EXP. 12–31–23 – CIVIL – STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482–6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE	DESIGNED BY: BKF (CT) / CHECKED BY: BKF (JM) / DRAWN BY: BKF (JC)	MIDCOAST MULTI-MODAL TRAIL / EROSION CONTROL DETAILS	SCALE: NO SCALE / DATE: 12/08/2021 / FILE NO: 1/4952
		ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS, COUNTY SAN MATEO	555 COUNTY CENTER, 5th FLOOR, REDWOOD CITY, CALIFORNIA 94063	C-5.01
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	0 1 2 3 4	SHEET 26 OF 38

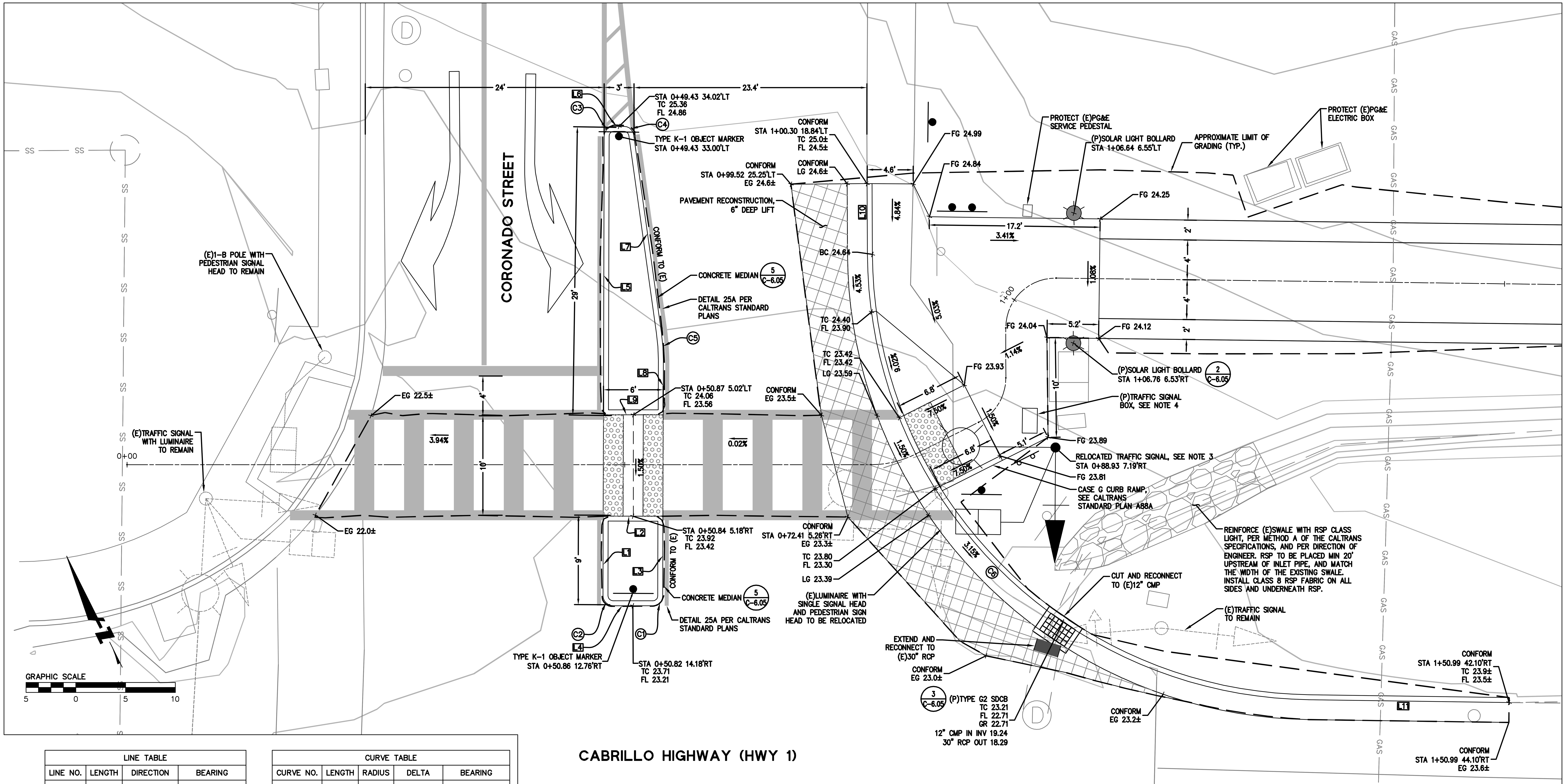
DRAWING NAME: K:\Eng19\140242\SHEETS\C5-XX-EROSION_CONTROL_PLAN.dwg
PLOT TIME: 12-08-21

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA



LINE TABLE			
LINE NO.	LENGTH	DIRECTION	BEARING
L1	8.00	N26°39'42"E	N26°39'42.10"E
L2	6.00	S63°20'18"E	S63°20'17.90"E
L3	8.00	S26°39'42"W	S26°39'42.10"W
L4	4.00	N63°20'18"W	N63°20'17.90"W
L5	28.00	S26°39'42"W	S26°39'42.10"W
L6	0.99	N63°20'18"W	N63°20'17.90"W
L7	20.04	N18°34'17"E	N18°34'16.68"E
L8	5.47	N26°39'42"E	N26°39'42.10"E
L9	6.00	S63°28'07"E	S63°28'06.86"E
L10	7.12	N26°14'39"E	N26°14'38.94"E
L11	20.11	N62°39'04"W	N62°39'03.58"W

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	BEARING
C1	1.57	1.00	090°00'00"	N71°39'42.10"E
C2	1.57	1.00	090°00'00"	S18°20'17.90"E
C3	1.57	1.00	090°00'00"	S71°39'42.10"W
C4	1.43	1.00	081°54'35"	N22°23'00.61"W
C5	2.82	20.00	008°05'25"	N22°36'59.39"E
C6	69.82	45.00	088°53'43"	S18°12'12.32"E

1 CORONADO STREET INTERSECTION
SCALE: 1" = 5'

NOTES:

1. REFER TO SHEET C-2.00 FOR ADDITIONAL PLAN AND PROFILE INFORMATION.
2. REFER TO SIGNING AND STRIPING PLANS SHEET C-4.00 FOR ADDITIONAL INFORMATION.
3. RELOCATED TRAFFIC SIGNAL SHALL HAVE A FOUNDATION PER CALTRANS STANDARD PLAN ES-7A FOR A TYPE 15TS TRAFFIC SIGNAL POLE. CONTRACTOR SHALL CONFIRM BASE PLATES AND BOLTS ON EXISTING TRAFFIC SIGNAL POLE ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGN.
4. CONTRACTOR SHALL PLACE NEW TRAFFIC SIGNAL PULL BOX ON EXISTING CONDUITS IN THE LOCATION OF THE EXISTING SIGNAL PULL BOX AT PROPOSED GRADES. CONTRACTOR TO REMOVE CONDUIT SERVING EXISTING POLE TO BE RELOCATED, PULL SIGNAL WIRES, INSTALL NEW CONDUIT TO NEW POLE LOCATION, AND RECONNECT SIGNAL WIRES TO TRAFFIC SIGNAL POLE.
5. LOCATIONS OF TRAFFIC SIGNAL POLES, AND PULL BOXES ARE APPROXIMATE. ALL EQUIPMENT LOCATIONS SHALL BE APPROVED BY THE COUNTY PRIOR TO INSTALLATION. NEW SIGNAL POLES SHALL BE LOCATED IN THE PRESENCE OF THE ENGINEER PRIOR TO EXCAVATION. POLES SHALL BE PLACED A MINIMUM OF 30" FROM FACE OF CURB, AND A MINIMUM OF 48" OF SIDEWALK CLEARANCE FOR WHEELCHAIR ACCESS AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED.
6. ALL PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED 3.5' ABOVE THE FINISHED GRADE WALKING SURFACE, AND SHALL BE LOCATED A MAXIMUM OF 10" FROM THE ACCESSIBLE PATH OF TRAVEL. PUSH BUTTON FRAME EXTENDER BY POLARA OR APPROVED EQUIVALENT SHALL BE INSTALLED WITH THE APS AS NEEDED.

DRAWING NAME: K:\Eng\t\140242\SHEETS\C6.XX-DETAILS.dwg
PLOT TIME: 12-09-21

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER JASON CONRAD MANSFIELD No. C 59567 EXP. 12-31-23 CIVIL STATE OF CALIFORNIA

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COUNTY OF SAN MATEO PUBLIC WORKS

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DESIGNED BY: BKF (CT)
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MIDCOAST MULTI-MODAL TRAIL

INTERSECTION DETAILS

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

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REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
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EXPIRES 12/31/23
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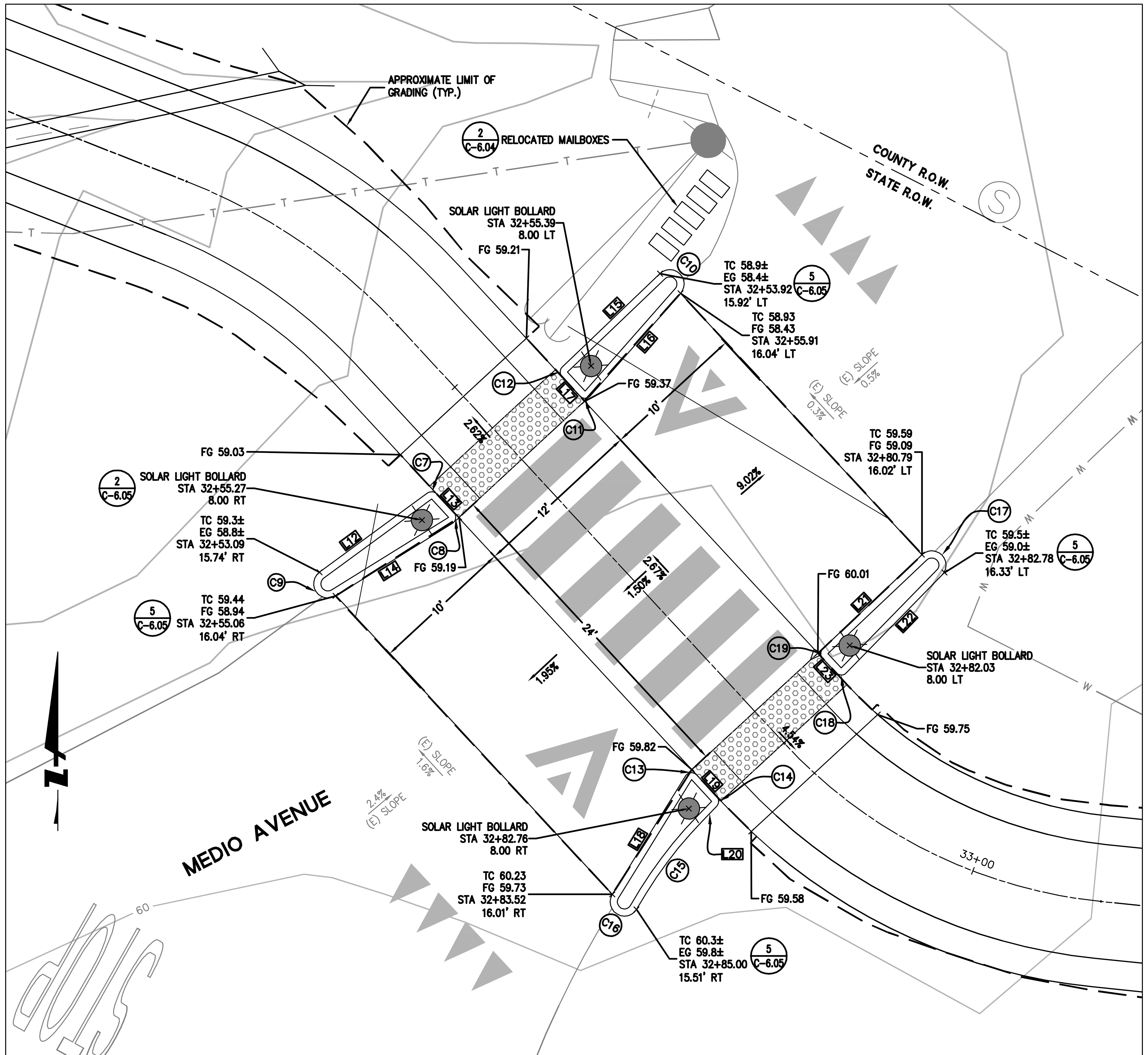

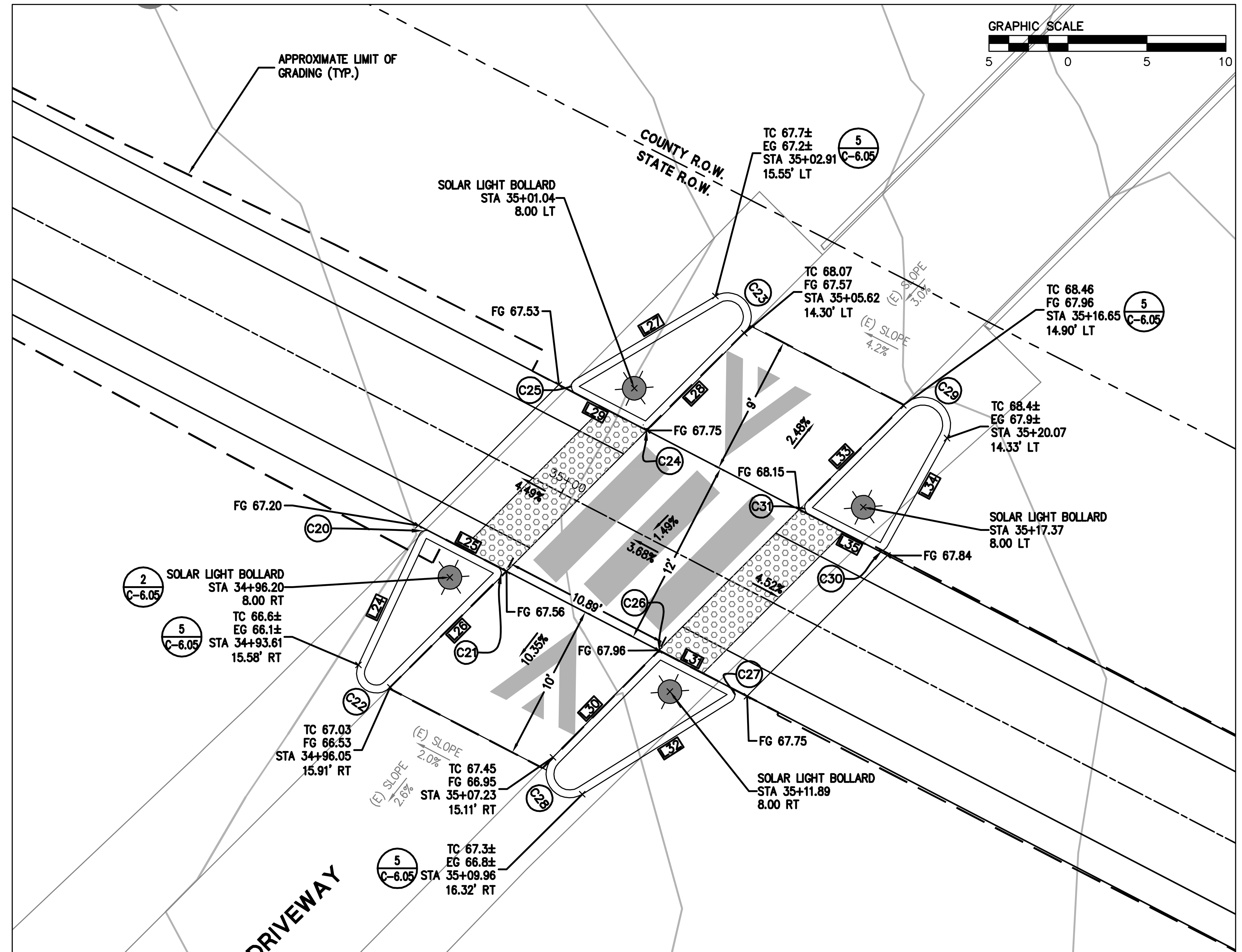

LINE TABLE			
LINE NO.	LENGTH	DIRECTION	BEARING
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L13	1.75	S42°46'33"E	S42°46'32.61"E
L14	9.66	S58°08'34"W	S58°08'34.32"W
L15	9.43	S46°17'48"W	S46°17'48.19"W
L16	9.54	N41°20'29"E	N41°20'29.15"E
L17	1.82	S42°46'33"E	S42°46'32.61"E
L18	9.79	S31°43'19"W	S31°43'19.35"W
L19	2.07	N42°46'28"W	N42°46'28.13"W
L20	1.39	N44°08'35"E	N44°08'34.67"E
L21	9.53	S46°34'13"W	S46°34'13.04"W
L22	9.57	N44°21'09"E	N44°21'09.31"E
L23	1.37	S42°46'33"E	S42°46'32.61"E

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	BEARING
C7	0.73	0.50	083°30'29"	N84°31'47.34"W
C8	0.84	0.50	096°34'33"	N05°30'43.93"E
C9	3.06	1.00	175°34'24"	S34°04'13.87"E
C10	3.06	1.00	175°02'41"	N46°10'51.33"W
C11	0.83	0.50	095°34'28"	N89°26'13.55"E
C12	0.78	0.50	089°04'21"	S01°45'37.79"W
C13	0.86	0.50	098°38'25"	S87°51'48.08"W
C14	0.76	0.50	086°55'03"	N00°41'03.27"E
C15	7.73	30.00	014°45'17"	S36°45'56.09"W
C16	3.18	1.00	182°20'02"	S59°26'41.57"E
C17	3.10	1.00	177°46'56"	N44°32'18.82"W
C18	0.81	0.50	092°52'18"	S89°12'41.65"E
C19	0.78	0.50	089°20'46"	S01°53'50.22"W

1 / – MEDIO AVENUE RAISED CROSSING
SCALE: 1" = 5'

LINE TABLE			
LINE NO.	LENGTH	DIRECTION	BEARING
L24	9.07	S25°00'57"W	S25°00'57.39"W
L25	4.79	N62°33'38"W	N62°33'37.78"W
L26	9.72	N45°05'37"E	N45°05'37.01"E
L27	10.33	N59°14'19"E	N59°14'18.59"E
L28	8.34	S44°57'59"W	S44°57'58.89"W
L29	4.74	N62°33'38"W	N62°33'37.78"W
L30	9.17	S44°42'57"W	S44°42'56.65"W
L31	4.75	N62°33'38"W	N62°33'37.78"W
L32	11.11	N58°04'25"E	N58°04'24.83"E
L33	8.65	S44°54'16"W	S44°54'16.19"W
L34	7.84	N28°56'31"E	N28°56'31.47"E
L35	4.83	S62°33'38"E	S62°33'37.78"E

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	BEARING
C20	0.81	0.50	092°25'25"	S71°13'39.80"W
C21	0.94	0.50	107°39'15"	N08°44'00.39"W
C22	3.49	1.25	159°55'20"	S54°56'42.80"E
C23	4.34	1.50	165°43'40"	N37°53'51.26"W
C24	0.63	0.50	072°28'23"	N81°12'10.55"E
C25	1.06	0.50	121°47'56"	S01°39'39.60"E
C26	0.63	0.50	072°43'26"	S81°04'39.44"W
C27	1.05	0.50	120°38'03"	N02°14'36.48"W
C28	4.36	1.50	166°38'32"	S38°36'19.26"E
C29	5.01	1.75	164°02'15"	N53°04'36.17"W
C30	0.77	0.50	088°29'51"	N73°11'26.84"E
C31	0.94	0.50	107°27'54"	S08°49'40.80"E

2 / – PRIVATE DRIVEWAY RAISED CROSSING
SCALE: 1" = 5'

NOTE:
1. REFER TO SHEET C-2.04 AND C-2.05 FOR ADDITIONAL PLAN AND PROFILE INFORMATION.
2. REFER TO SIGNING AND STRIPING PLAN SHEET C-4.02 FOR ADDITIONAL INFORMATION.

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION | DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
INTERSECTION DETAILS

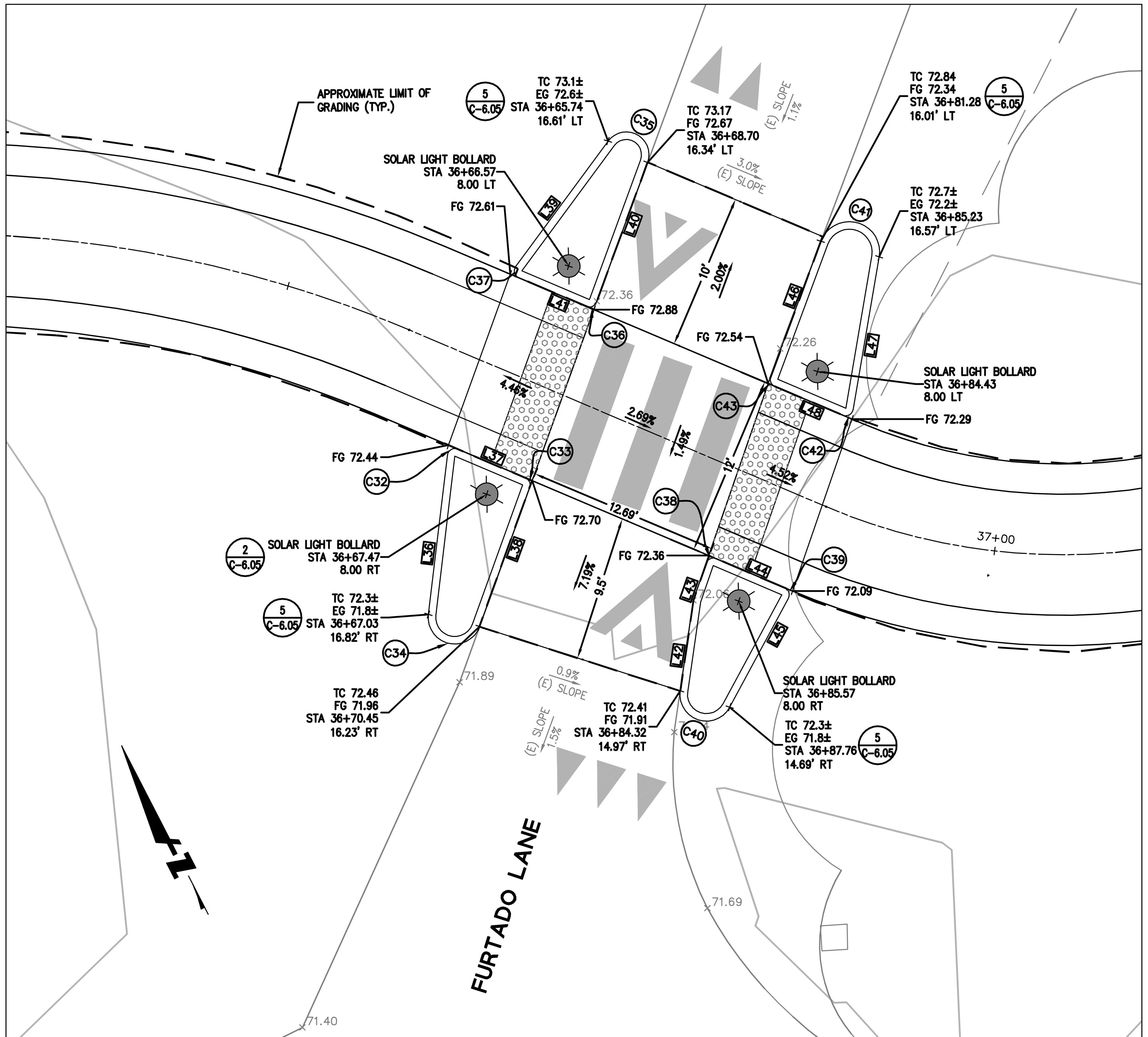
ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: 1" = 5'
DATE: 12/08/2021
FILE NO.: 1/4952
C-6.01
SHEET 28 OF 38

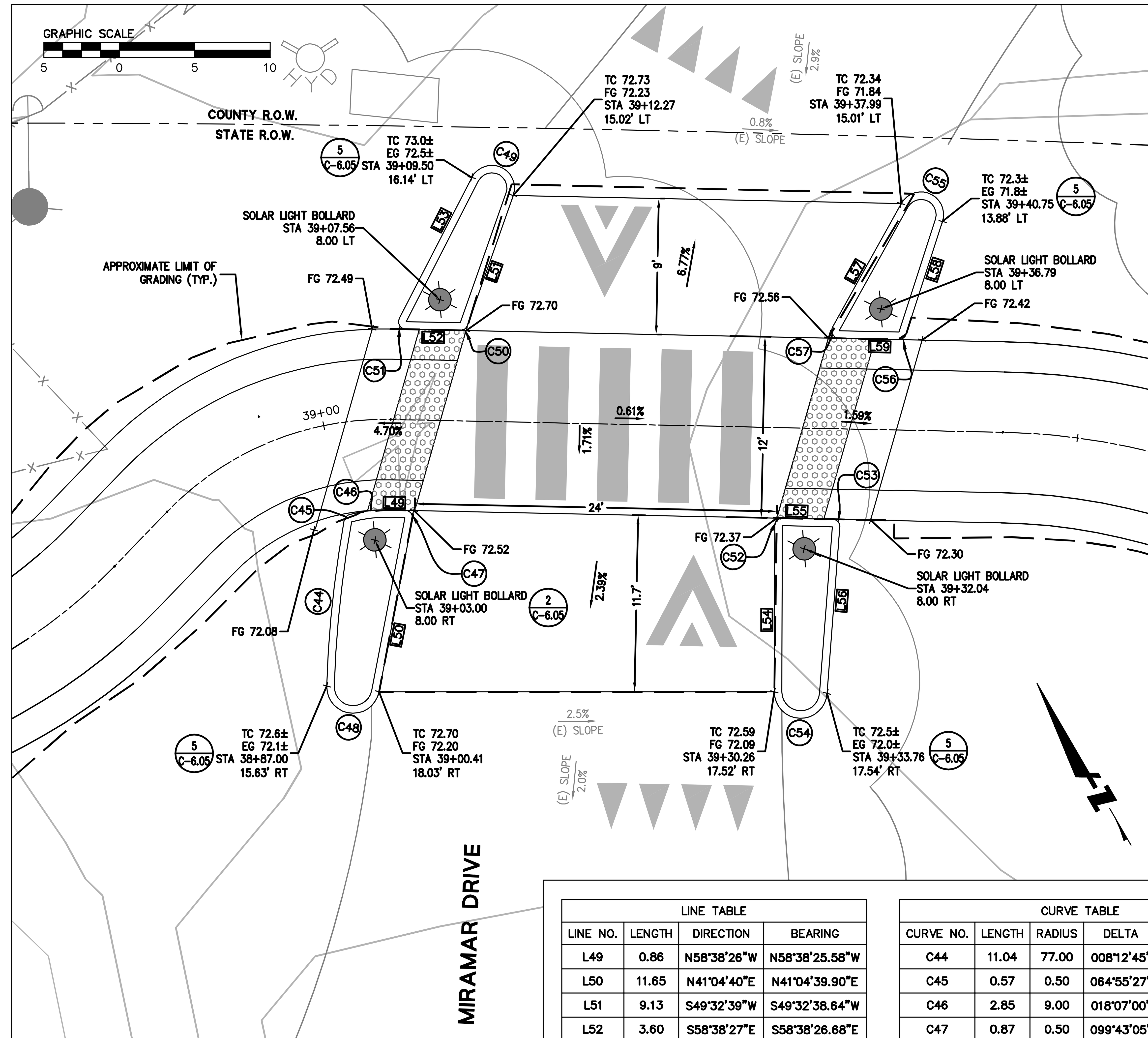
DRAWING NAME: K:\Eng14\140242\SHEETS\C6.XX-DETAILS.dwg
PLOT TIME: 12-09-21



LINE TABLE			
LINE NO.	LENGTH	DIRECTION	BEARING
L36	10.60	S33°57'57"W	S33°57'57.21"W
L37	4.86	N39°51'06"W	N39°51'06.46"W
L38	9.78	N46°58'24"E	N46°58'23.74"E
L39	10.28	S63°32'24"W	S63°32'24.23"W
L40	9.83	N47°17'42"E	N47°17'42.08"E
L41	4.84	S39°51'06"E	S39°51'06.46"E
L42	6.05	S35°25'01"W	S35°25'01.10"W
L43	2.59	S46°13'04"W	S46°13'03.57"W
L44	4.92	N39°51'06"W	N39°51'06.46"W
L45	8.18	N55°29'39"E	N55°29'39.48"E
L46	9.55	N47°35'09"E	N47°35'09.29"E
L47	10.23	S36°49'02"W	S36°49'02.05"W
L48	4.89	N39°51'06"W	N39°51'06.46"W

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	BEARING
C32	0.93	0.50	106°10'56"	S87°03'25.37"W
C33	0.76	0.50	086°49'30"	N03°33'38.64"E
C34	5.10	1.75	166°59'33"	S49°31'49.52"E
C35	4.29	1.50	163°45'18"	N34°34'56.84"W
C36	0.81	0.50	092°51'11"	S86°16'42.19"E
C37	0.90	0.50	103°23'31"	S11°50'38.88"W
C38	0.82	0.50	093°55'50"	N86°49'01.44"W
C39	0.83	0.50	095°20'46"	N07°49'16.51"E
C40	4.88	1.75	159°55'22"	S44°32'39.71"E
C41	5.91	2.00	169°13'53"	N47°47'54.33"W
C42	0.90	0.50	103°19'51"	N88°28'57.79"E
C43	0.76	0.50	087°26'16"	S03°52'01.41"W

1 FURTADO LANE RAISED CROSSING
SCALE: 1" = 5'



LINE TABLE			
LINE NO.	LENGTH	DIRECTION	BEARING
L49	0.86	N58°38'26"W	N58°38'25.58"W
L50	11.65	N41°04'40"E	N41°04'39.90"E
L51	9.13	S49°32'39"W	S49°32'38.64"W
L52	3.60	S58°38'27"E	S58°38'26.68"E
L53	10.48	N57°21'35"E	N57°21'34.77"E
L54	11.02	S30°18'42"W	S30°18'41.95"W
L55	3.33	N58°35'55"W	N58°35'55.03"W
L56	10.94	N34°34'02"E	N34°34'01.54"E
L57	9.37	S59°12'07"W	S59°12'06.53"W
L58	7.86	N48°04'14"E	N48°04'14.10"E
L59	3.96	S58°38'26"E	S58°38'25.58"E

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	BEARING
C44	11.04	77.00	008°12'45"	S36°08'23.56"W
C45	0.57	0.50	064°55'27"	S72°42'06.13"W
C46	2.85	9.00	018°07'00"	N65°55'40.17"W
C47	0.87	0.50	099°43'05"	N08°46'52.84"W
C48	5.22	1.75	170°57'45"	S53°26'27.82"E
C49	4.51	1.50	172°11'11"	N36°32'53.30"W
C50	0.63	0.50	071°48'55"	N85°27'05.98"E
C51	1.01	0.50	116°00'01"	S00°38'25.96"E
C52	0.79	0.50	091°05'23"	S75°51'23.46"W
C53	0.91	0.50	103°42'33"	N06°44'38.70"W
C54	5.41	1.75	177°13'08"	S58°17'51.96"E
C55	4.42	1.50	168°52'08"	N36°21'49.69"W
C56	0.64	0.50	073°17'20"	N84°42'54.26"E
C57	1.03	0.50	117°50'32"	S00°16'50.47"W

2 MIRAMAR DRIVE RAISED CROSSING
SCALE: 1" = 5'

NOTE:
1. REFER TO PLAN SHEET C-2.05 FOR ADDITIONAL PLAN AND PROFILE INFORMATION.
2. REFER TO SIGNING AND STRIPING PLAN SHEETS C-4.02 FOR ADDITIONAL INFORMATION.

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA

APPROVED:
DATE: 12/23/2021
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER JASON CONRAD MANSFIELD No. C 59567 EXP. 12-31-23 CIVIL STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
INTERSECTION DETAILS

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: 1" = 5'
DATE: 12/08/2021
FILE NO.: 1/4952
C-6.02

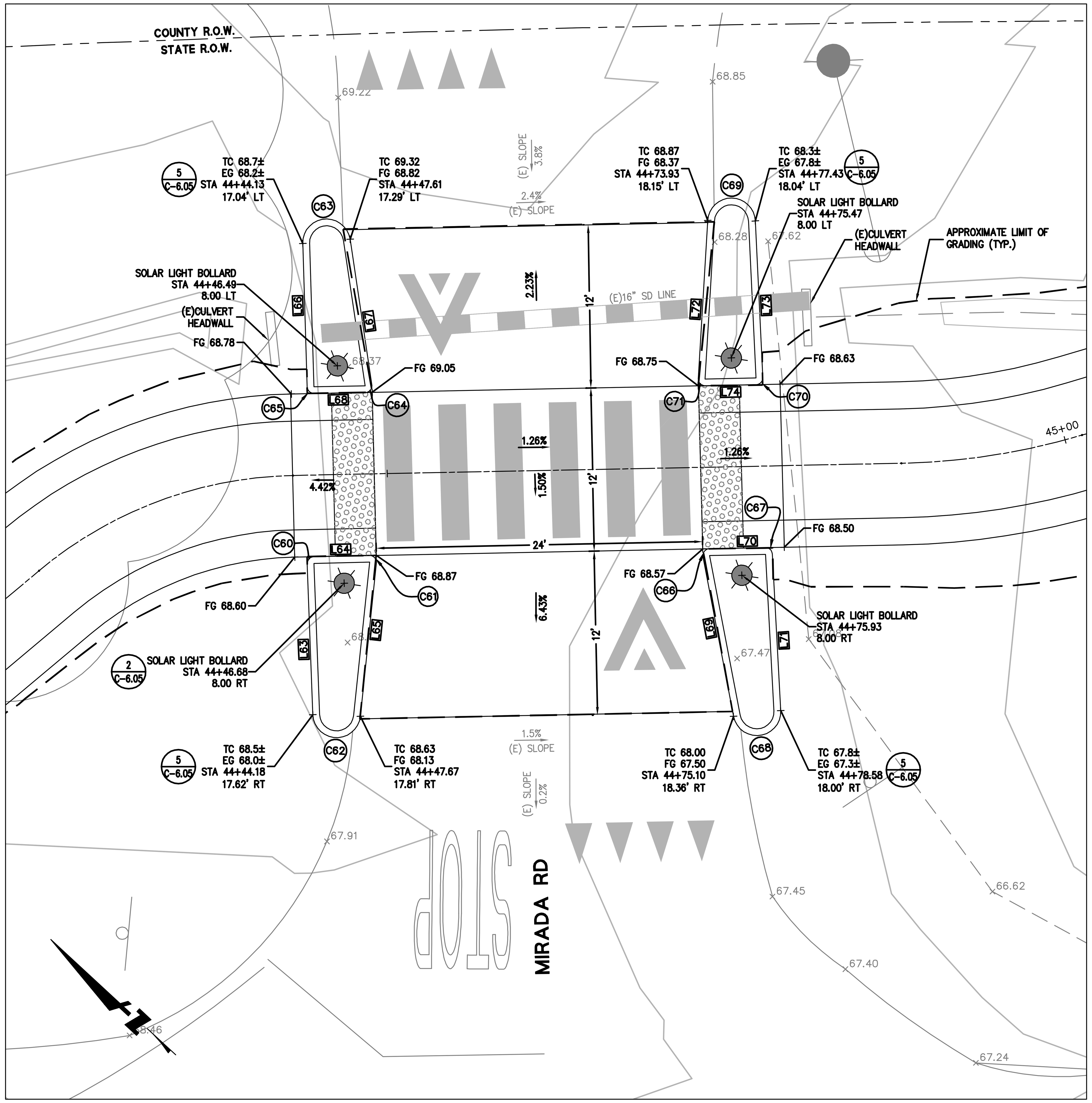
DRAWING NAME: K:\Eng14\140242\SHEETS\C6.XX-DETAILS.dwg
PLOT TIME: 12-09-21

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA



1 MIRADA ROAD RAISED CROSSING
SCALE: 1" = 5'

LINE TABLE			
LINE NO.	LENGTH	DIRECTION	BEARING
L63	11.12	S45°03'56"W	S45°03'55.68"W
L64	4.09	N44°04'11"W	N44°04'11.47"W
L65	11.40	N53°10'57"E	N53°10'56.66"E
L66	10.55	N45°25'54"E	N45°25'53.67"E
L67	10.88	S38°41'35"W	S38°41'35.14"W
L68	3.76	N43°48'06"W	N43°48'06.31"W
L69	11.94	N36°22'26"E	N36°22'26.27"E
L70	4.11	S43°55'56"E	S43°55'56.03"E
L71	11.53	S44°10'18"W	S44°10'18.33"W
L72	11.69	S50°35'30"W	S50°35'29.58"W
L73	11.53	N44°25'31"E	N44°25'31.03"E
L74	3.75	S44°04'51"E	S44°04'51.13"E

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	BEARING
C60	0.79	0.50	090°51'53"	N89°30'07.90"W
C61	0.80	0.50	091°08'12"	N01°45'59.54"E
C62	5.25	1.75	171°52'59"	S40°52'33.83"E
C63	5.29	1.75	173°15'41"	N47°56'15.59"W
C64	0.80	0.50	091°08'12"	S89°22'12.15"E
C65	0.78	0.50	089°14'00"	S00°48'53.68"W
C66	0.87	0.50	099°41'38"	S86°13'15.12"W
C67	0.77	0.50	088°06'14"	N00°07'11.15"E
C68	5.26	1.75	172°12'08"	S49°43'37.70"E
C69	5.33	1.75	174°32'52"	N42°08'04.31"W
C70	0.80	0.50	091°22'23"	S89°46'02.76"E
C71	0.80	0.50	091°08'12"	S01°45'59.54"W

NOTE:
1. REFER TO PLAN SHEET C-2.06 FOR ADDITIONAL PLAN AND PROFILE INFORMATION.
2. REFER TO SIGNING AND STRIPING PLAN SHEET C-4.03 FOR ADDITIONAL INFORMATION.

GRAPHIC SCALE
5 0 5 10

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12-09-21
DRAWING NAME:
PLOT TIME:

APPROVED DATE: 12-23-2021

NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:

JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER
JASON CONRAD MANSFIELD
No. C 59567
EXP. 12-31-23
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO
PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL

INTERSECTION DETAILS

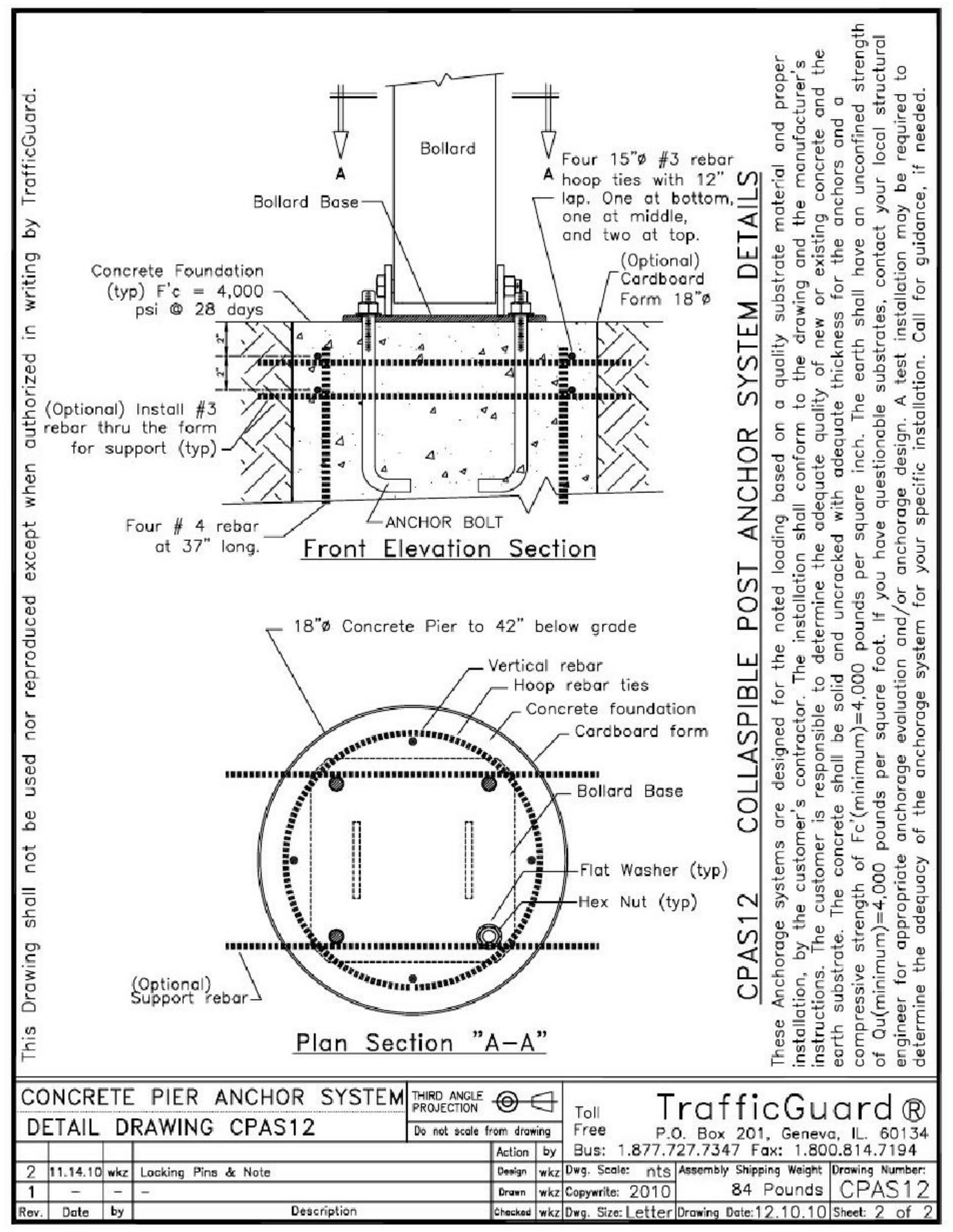
ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

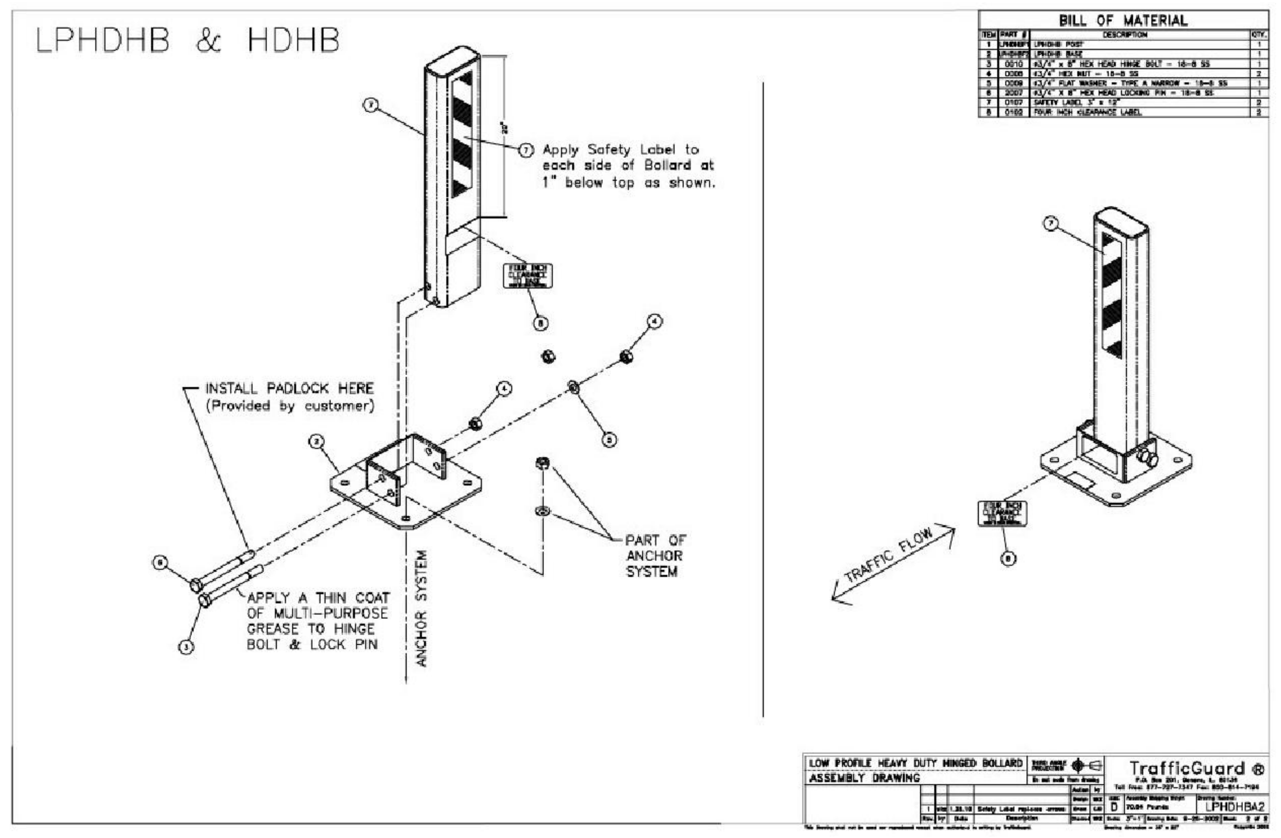
555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

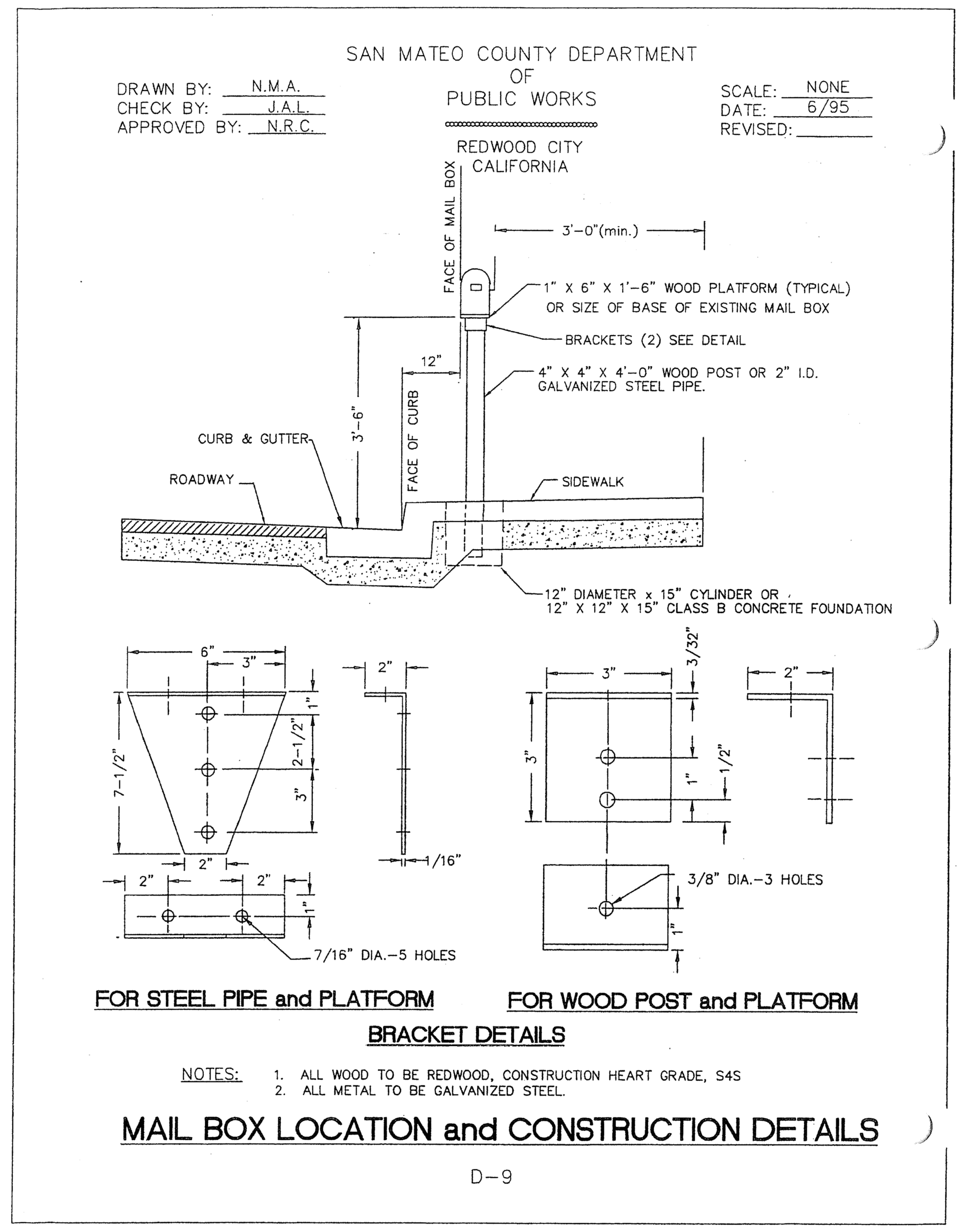
SCALE: 1" = 5'
DATE: 12/08/2021
FILE NO.: 1/4952

C-6.03

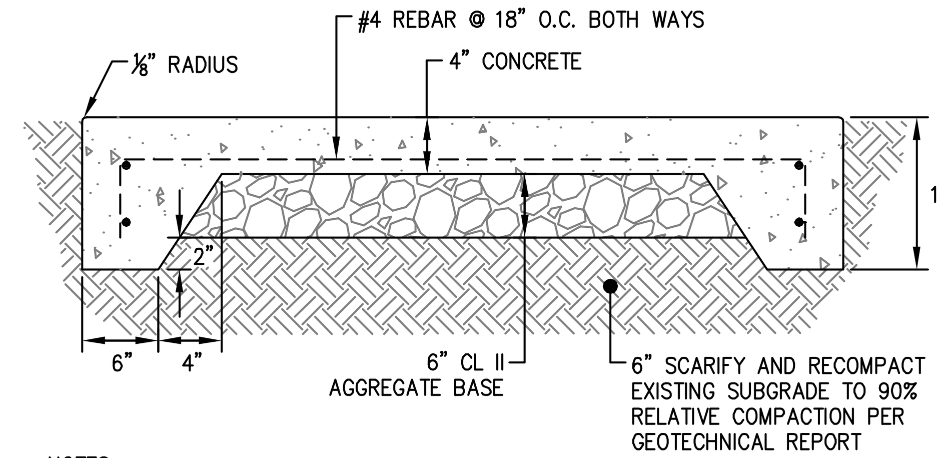




1 FOLD DOWN BOLLARD, TRAFFICGUARD LOW PROFILE HEAVY DUTY HINGED BOLLARD (CONCRETE ANCHOR SYSTEM) DETAIL
NTS



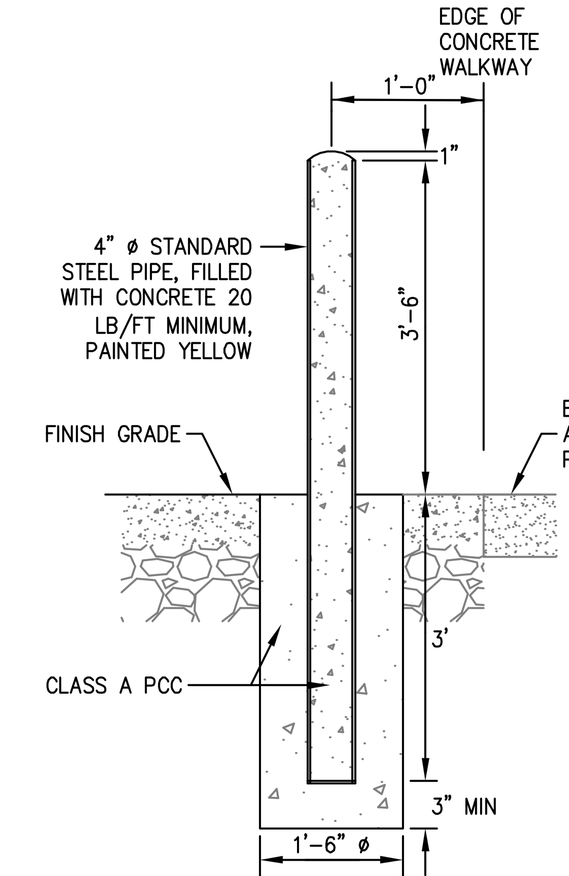
2 SAN MATEO COUNTY STANDARD DETAIL D-9 MAIL BOX LOCATION AND CONSTRUCTION DETAILS
NTS



NOTES:

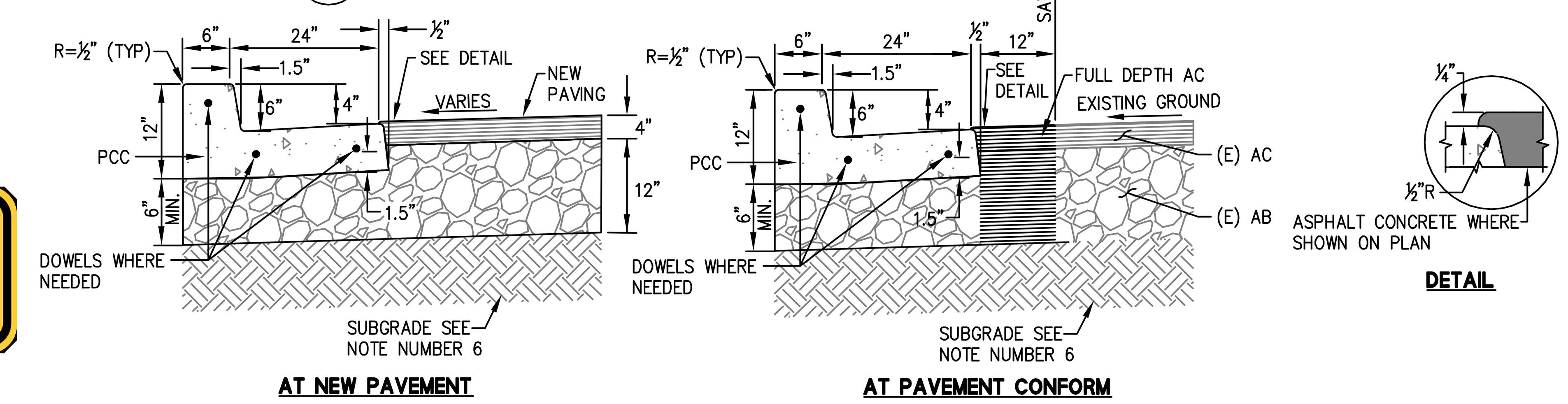
1. PROVIDE EXPANSION JOINT AT ALL VERTICAL SURFACES AND BACKS OF CURB.

10 CONCRETE WALKWAY
NTS



11 BOLLARD
NTS

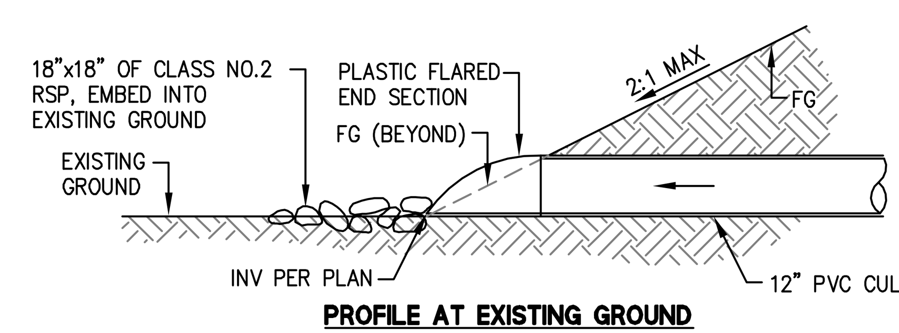
3 TRAIL CROSSING (W11-15, W11-15P, W16-7P, & W16-9P)
NTS



NOTES:

1. USE 1/2" WIDE EXPANSION JOINTS AT EACH END OF CURB RETURNS AND AT 20' CENTERS.
2. USE 1/2" DIAMETER X 24" LONG, SMOOTH CAPPED DOWELS AT EACH EXPANSION JOINT AND AT END OF POURS.
3. SET SCORE MARKS 1 1/2" TO 2" DEEP AT 20' CENTERS.
4. SURFACE FINISH TO BE LIGHT BROOMING.
5. DOWEL NEW CONC. CURB AND GUTTER INTO EXISTING.
6. UPPER 6" OF SUBGRADE TO BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION PER GEOTECHNICAL ENGINEER RECOMMENDATION
7. EXTRUDED CURB TO CONFORM TO CALTRANS STANDARD SPECIFICATION 73-1.05B.

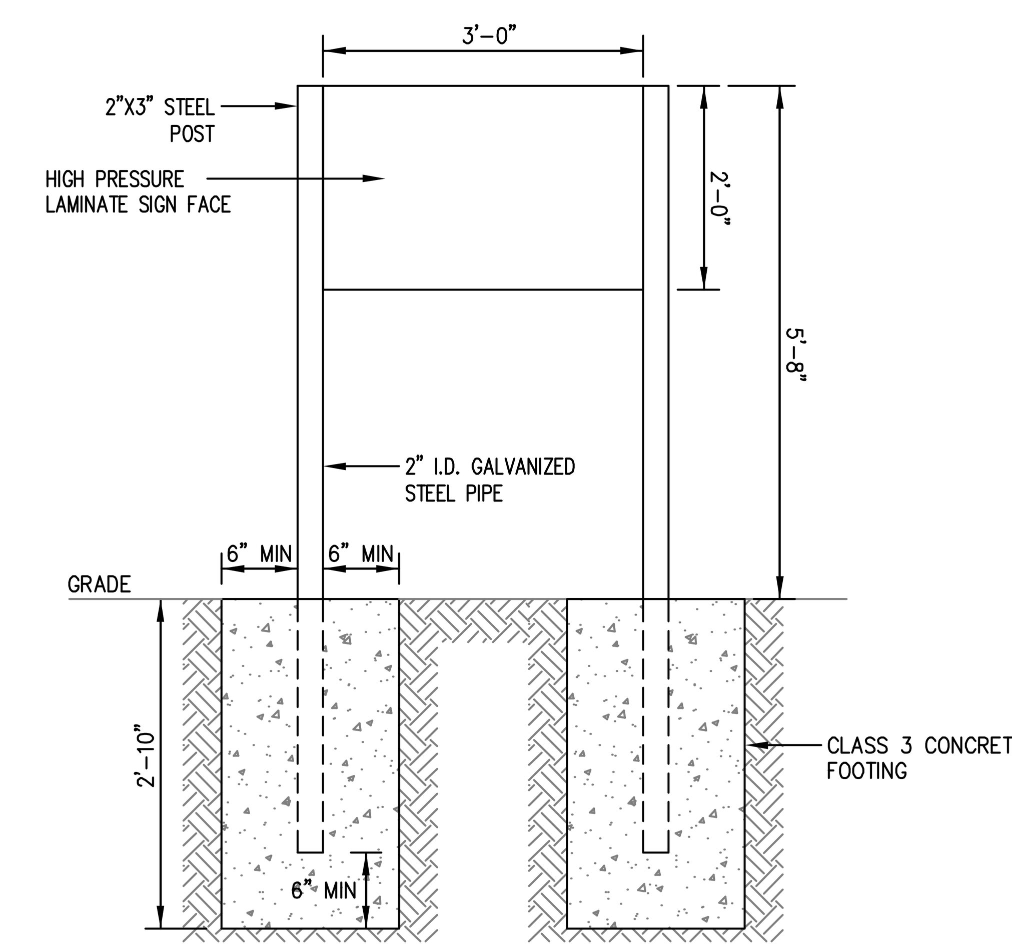
4 CURB AND GUTTER
NTS



NOTES:

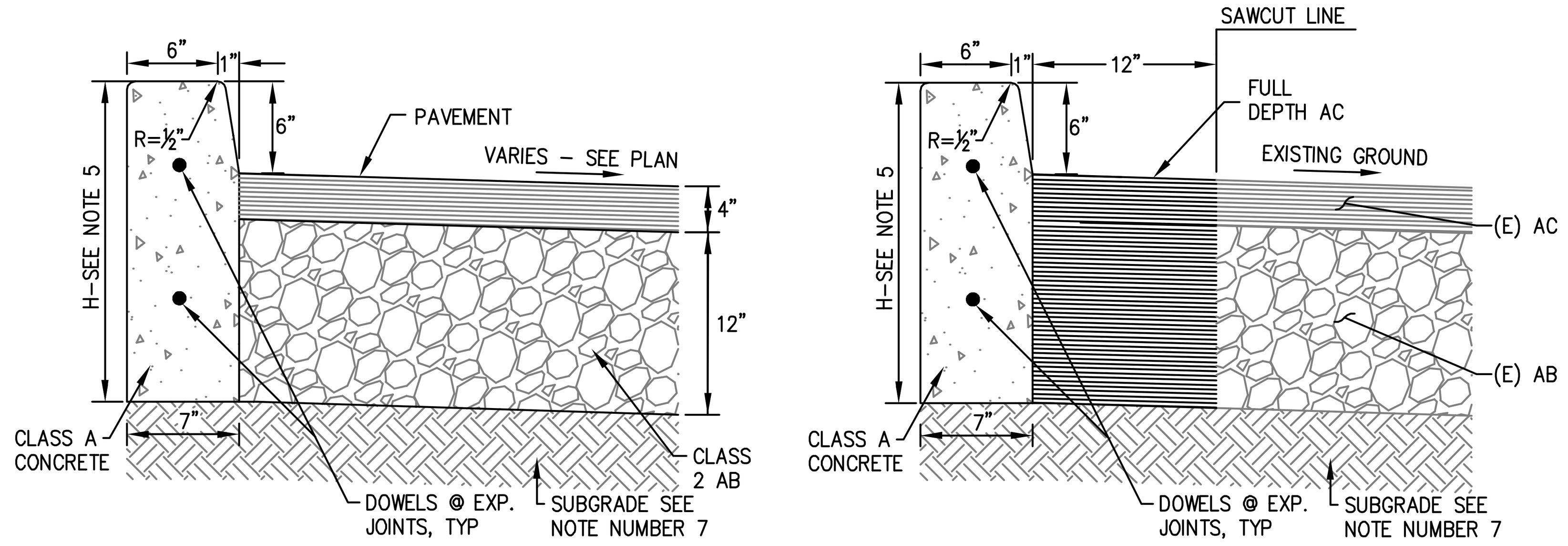
1. ALL HEADWALLS SHALL BE PLASTIC AND CONSTRUCTED IN CONFORMANCE WITH CALTRANS STANDARD PLAN D94A AND SECTION 70-5.02 OF THE CALTRANS STANDARD SPECIFICATIONS, 2015.

7 CULVERT FLARED END SECTION
NTS



NOTE:
1. SIGN POST BY CONTRACTOR, SAN MATEO COUNTY PARKS DEPARTMENT TO PROVIDE SIGN DETAILS AND GRAPHICS

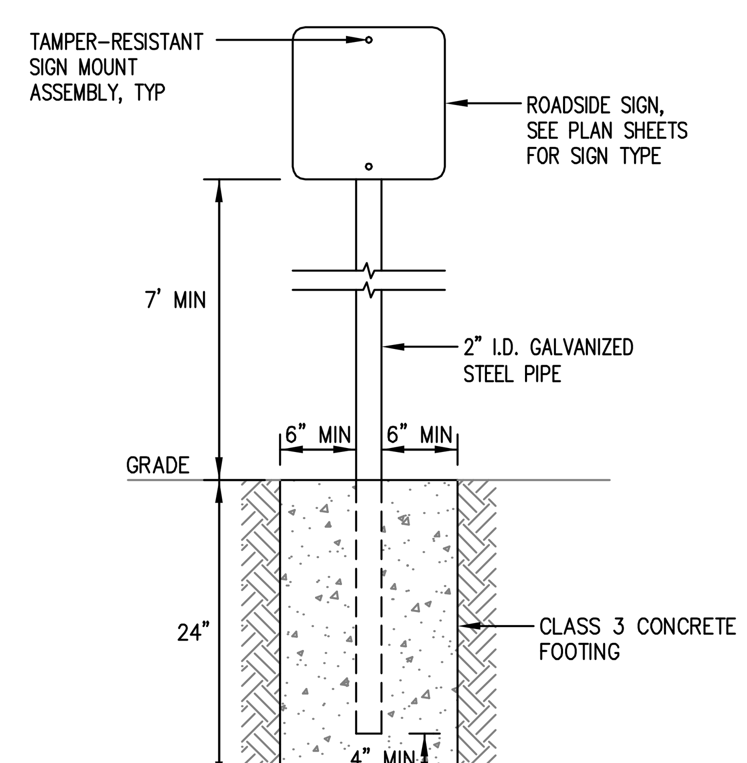
9 TRAILHEAD SIGN
NTS



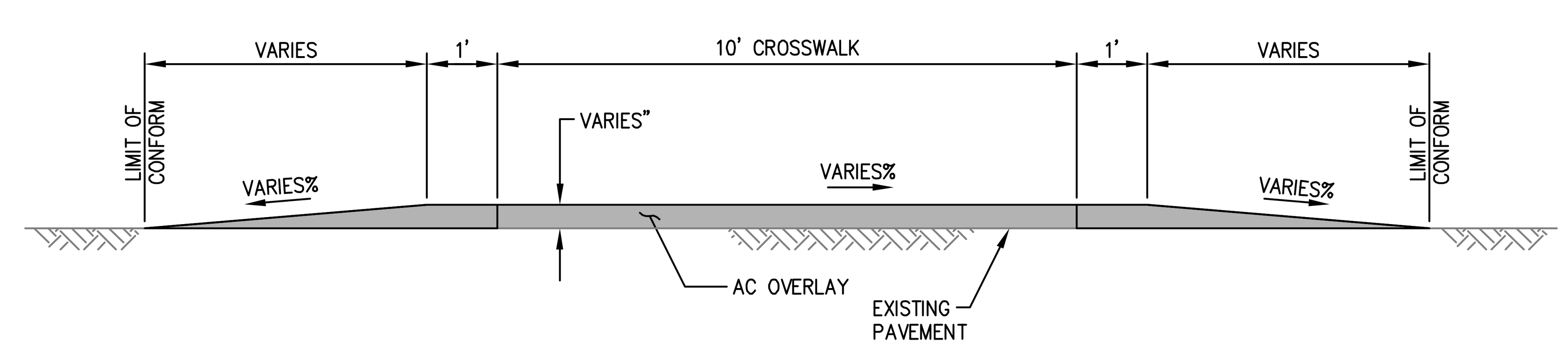
NOTES:

1. RAISED CONCRETE MEDIAN AT THE INTERSECTION OF CORONADO ST AND HWY 1 SHALL BE DELINEATED WITH DETAIL 25A PER CALTRANS STANDARD PLAN.
2. USE 1/2" DIAMETER X 12" LONG, SMOOTH CAPPED DOWELS AT EACH EXPANSION JOINT AND AT END OF POURS.
3. SET SCORE MARKS 1 1/2" TO 2" DEEP AT 20' CENTERS.
4. SURFACE FINISH TO BE LIGHT BROOMING.
5. THE OVERALL HEIGHT OF THE CURB, H, SHALL VARY ACCORDING TO THE DEPTH OF THE PAVEMENT SECTION. THE VERTICAL CURB SHALL EXTEND TO THE BOTTOM OF THE PAVEMENT SECTION, AS SHOWN.
6. DOWEL NEW CONC. CURB AND GUTTER INTO EXISTING.
7. UPPER 6" OF SUBGRADE TO BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION PER GEOTECHNICAL ENGINEER RECOMMENDATION
8. EXTRUDED CURB TO CONFORM TO CALTRANS STANDARD SPECIFICATION 73-1.05B.
9. USE 1/2" WIDE EXPANSION JOINTS AT EACH END OF CURB RETURNS AND AT 20' CENTERS.

5 VERTICAL CURB
NTS



6 ROADSIDE SIGN POST DETAIL
NTS



8 RAISED CROSSWALK DETAIL
NTS

APPROVED:
DATE: 12/23/2021
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/23 CIVIL STATE OF CALIFORNIA

APPROVED DATE: 12-23-2021	APPROVED DATE:
NICHOLAS CALDERON, PARKS DIRECTOR	JASON MANSFIELD, PROJECT MANAGER
SMC PARKS DEPARTMENT	BKF ENGINEERS
	R.C.E. # 59567 / EXPIRES 12-31-2023

REGISTERED PROFESSIONAL ENGINEER JASON CONRAD MANSFIELD No. C 59567 EXP. 12-31-23 CIVIL STATE OF CALIFORNIA

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

MIDCOAST MULTI-MODAL TRAIL
MISCELLANEOUS DETAILS

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

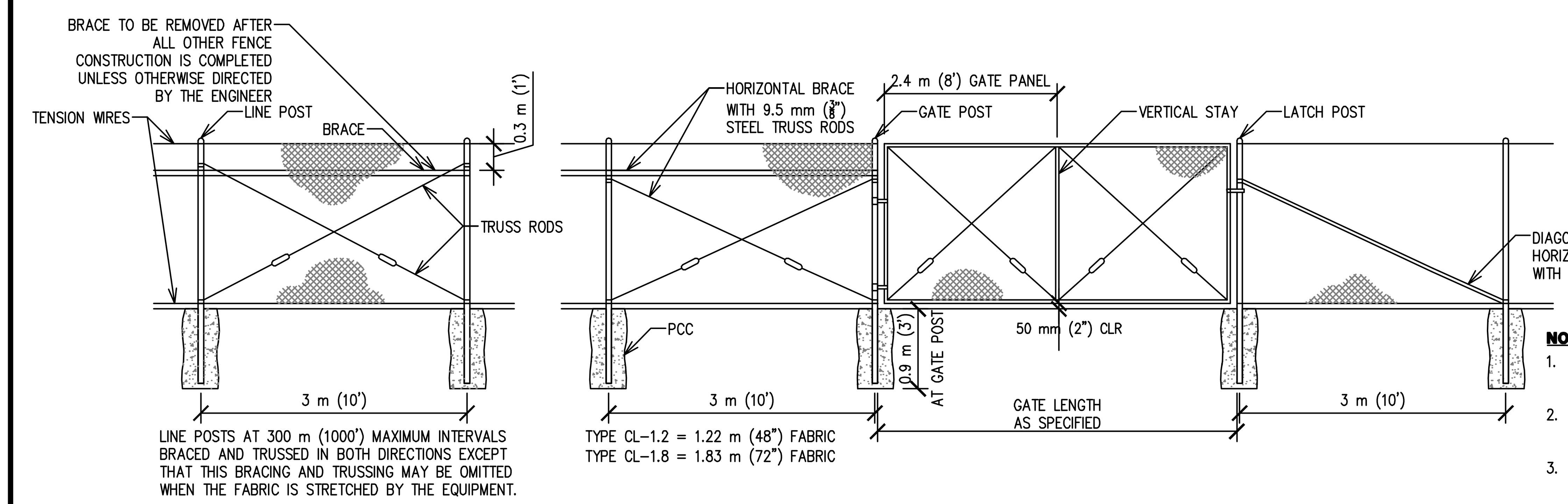
SCALE: AS SHOWN
DATE: 12/08/2021
FILE NO.: 1/4952
C-6.04
SHEET 31 OF 38

DRAWING NAME: K:\Eng14\140242\SHEETS\C6.XX-DETAILS.dwg
PLOT TIME: 12-09-21

TYPICAL MEMBER DIMENSIONS (SEE NOTES)										
FENCE HEIGHT	END, LATCH & CORNER POSTS			END, LATCH & CORNER POSTS			END, LATCH & CORNER POSTS			
	ROUND ID	H	ROLL FORMED	ROUND ID	ROLL FORMED		ROUND ID	H	BRACES	
1.83 m (6') & LESS	40 mm (1½")	48 mm x 41 mm (1⅞" x 1⅝")	48 mm x 41 mm (1⅞" x 1⅝")	50 mm (2")	89 mm x 89 mm (3½" x 3½")	51 mm x 44 mm (2" x 1¾")	32 mm (1¼")	38 mm x 33 mm (1½" x 1 5/16")	41 mm x 32 mm (1⅝" x 1¼")	44 mm x 32 mm (1¾" x 1¼")
OVER 1.83 m (6')	50 mm (2")	57 mm x 51 mm (2¼" x 2")	51 mm x 44 mm (2" x 1¾")	63 mm (2½")	89 mm x 89 mm (3½" x 3½")	63 mm x 63 mm (2½" x 2½")	32 mm (1¼")	38 mm x 33 mm (1½" x 1 5/16")	41 mm x 32 mm (1⅝" x 1¼")	44 mm x 32 mm (1¾" x 1¼")

GATE POST			
FENCE HEIGHT	GATE WIDTHS	NOMINAL ID	MASS PER METER (WEIGHT PER FOOT)
1.83 m (6') AND LESS	UP THRU 1.83 m (6')	65 mm (2½")	7.37 kg (4.95 lbs)
	OVER 1.83 m (6') THRU 3.66 (12')	100 mm (4")	16.06 kg (10.79 lbs)
	OVER 3.66 m (12') THRU 5.49 m (18')	125 mm (5")	21.76 kg (14.62 lbs)
	OVER 5.49 m (18') THRU 7.32 m (24') MAX	150 mm (6")	28.23 kg (18.97 lbs)
OVER 1.83 m (6')	UP THRU 1.83 m (6')	80 mm 3")	11.28 kg (7.58 lbs)
	OVER 1.83 m (6') THRU 3.66 (12')	125 mm (5")	21.76 kg (14.62 lbs)
	OVER 3.66 m (12') THRU 5.49 m (18')	150 mm (6")	28.23 kg (18.97 lbs)
	OVER 5.49 m (18') THRU 7.32 m (24') MAX	200 mm (8")	42.49 kg (28.55 lbs)

ABOVE POST DIMENSIONS AND MASSES ARE MINIMUMS. LARGER SIZES MAY BE USED ON APPROVAL FROM THE ENGINEER.



NOTES:

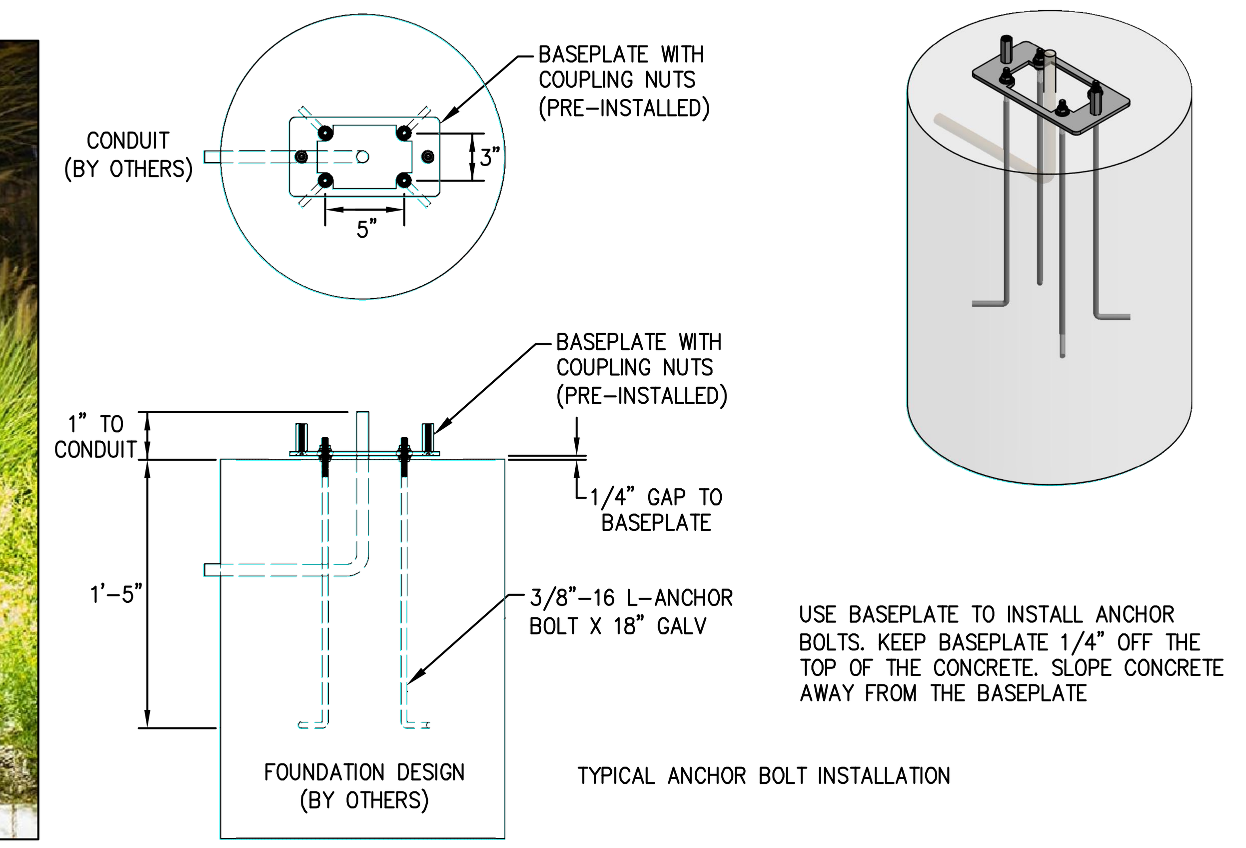
1. THE ABOVE TABLE SHOWS EXAMPLES OF POST AND BRACE SECTIONS WHICH MAY COMPLY WITH THE SPECIFICATIONS.
2. SECTIONS SHOWN IN THE TABLES MUST ALSO COMPLY WITH THE STRENGTH REQUIREMENTS AND OTHER PROVISIONS OF THE SPECIFICATIONS.
3. OTHER SECTIONS WHICH COMPLY WITH THE STRENGTH REQUIREMENTS AND OTHER PROVISIONS OF THE SPECIFICATIONS MAY BE USED ON APPROVAL OF THE ENGINEER.
4. OPTIONS EXERCISED SHALL BE UNIFORM ON ANY ONE PROJECT.
5. OFFSET TO BE 0.60 m (2'-0") AT MONUMENT LOCATIONS, MEASURE AT RIGHT ANGLES TO R.O.W. LINES. TAPER TO ACHIEVE OFFSET TO BE AT LEAST 6 m (20') LONG.
6. DIMENSIONS SHOWN ARE NOMINAL.

1 – CHAIN LINK FENCE
NTS

APPROVED:

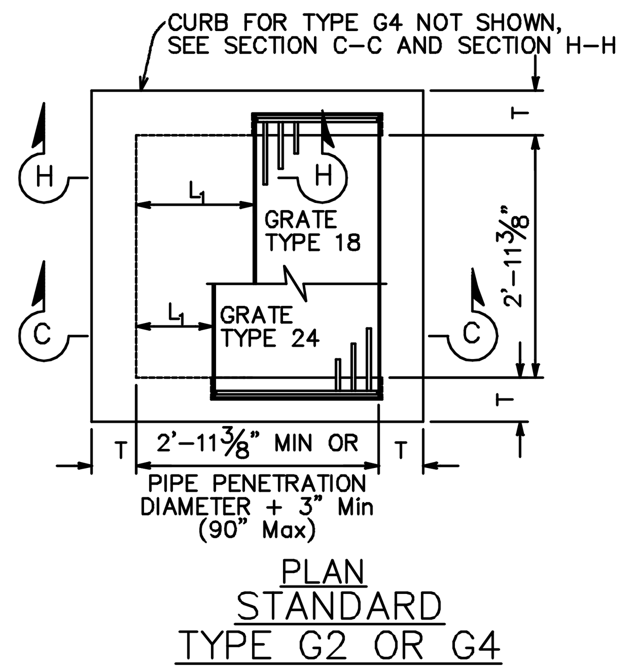
DATE: 12/23/2021

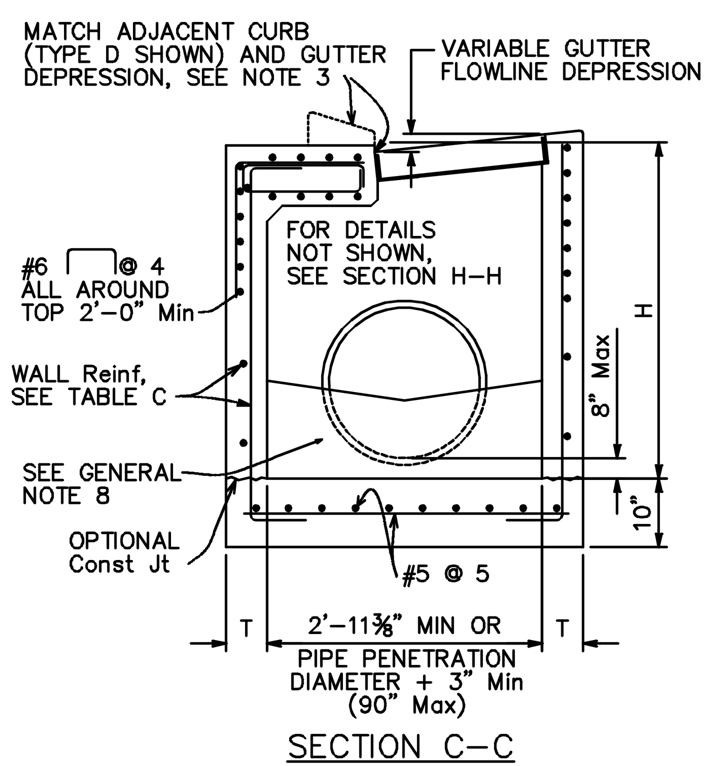
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

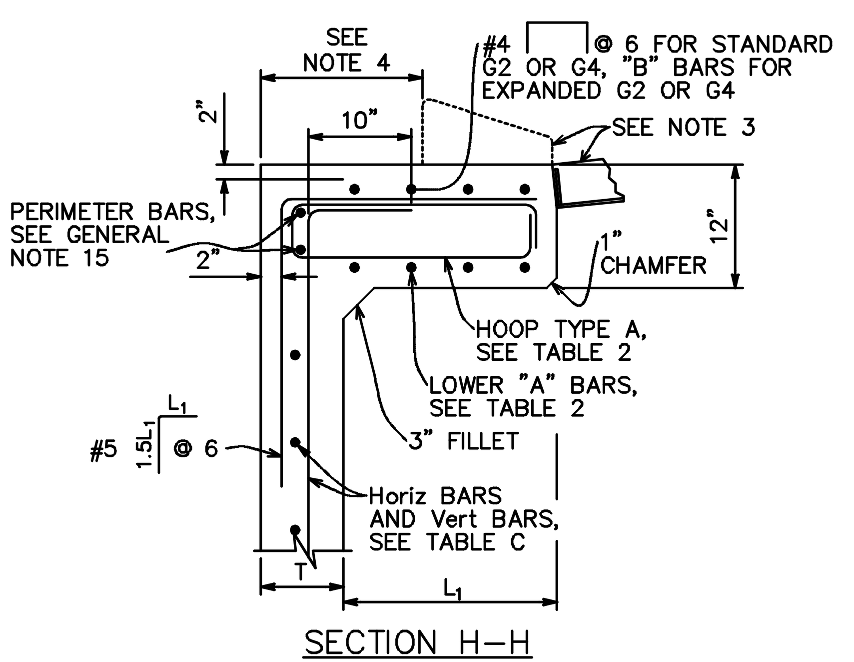


NOTES:
1. SOLAR LIGHT BOLLARD TO BE STRUCTURA, MODEL MAC II SOL OR APPROVED EQUIVALENT HEIGHT: 42" WIDTH: 10"
2. EMBED CONCRETE FOUNDATION WITH ANCHOR BOLT
3. SOLAR LIGHT BOLLARD TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS UNLESS OTHERWISE DIRECTED BY ENGINEER

2 – SOLAR LIGHT BOLLARD
NTS



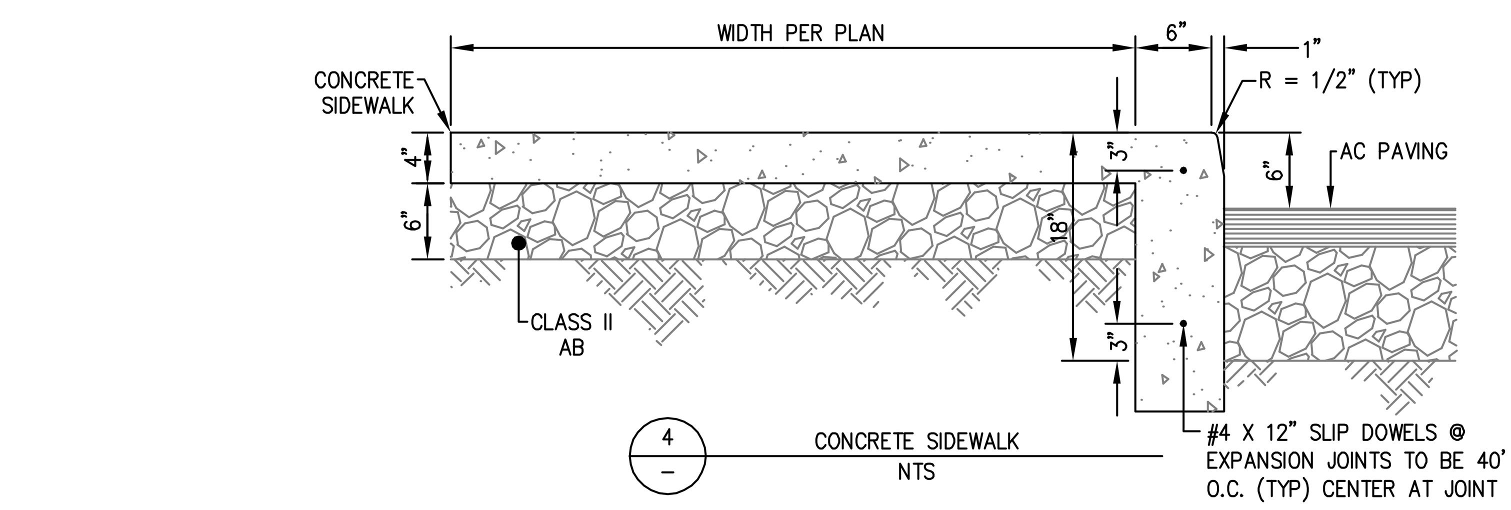




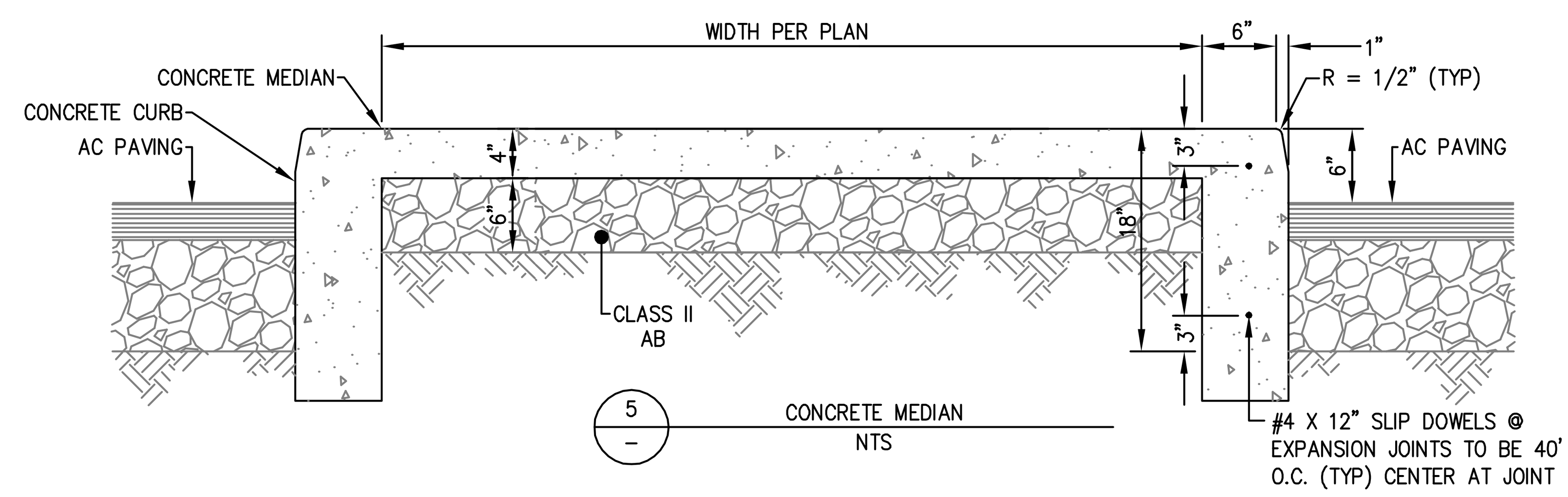
NOTES:
1. SEE CALTRANS 2018 REVISED STANDARD PLAN D72F FOR GENERAL NOTES AND ADDITIONAL DETAILS. SEE CALTRANS 2018 REVISED STANDARD PLAN D72G FOR TABLES, WALL THICKNESS "T", AND QUANTITIES.

3 – STORM DRAIN CATCH BASIN (TYPE G2)
NTS

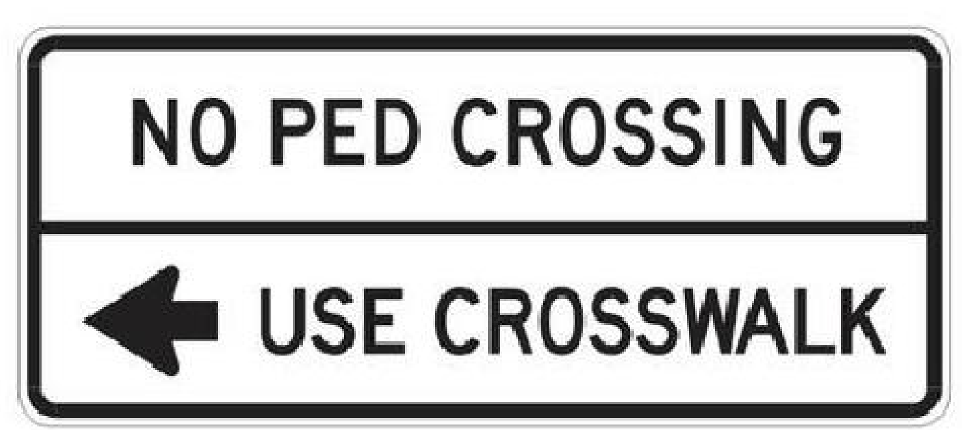
9 – CALTRANS STANDARD DETAILS
DELINEATORS, CHANNELIZERS AND BARRICADES A73C
MIDWEST GUARDRAIL SYSTEM A77L1
MIDWEST GUARDRAIL SYSTEM FOR APPROACH STRUCTURE A77Q1
MIDWEST GUARDRAIL SYSTEM TRANSITION RAILING A77U4
CASE G RAMP A88A
DETECTABLE WARNING SURFACE A88A
ELECTRICAL SYSTEMS (CURB AND SHOULDER TERMINATION, TRENCH, AND HANDHOLE DETAILS)



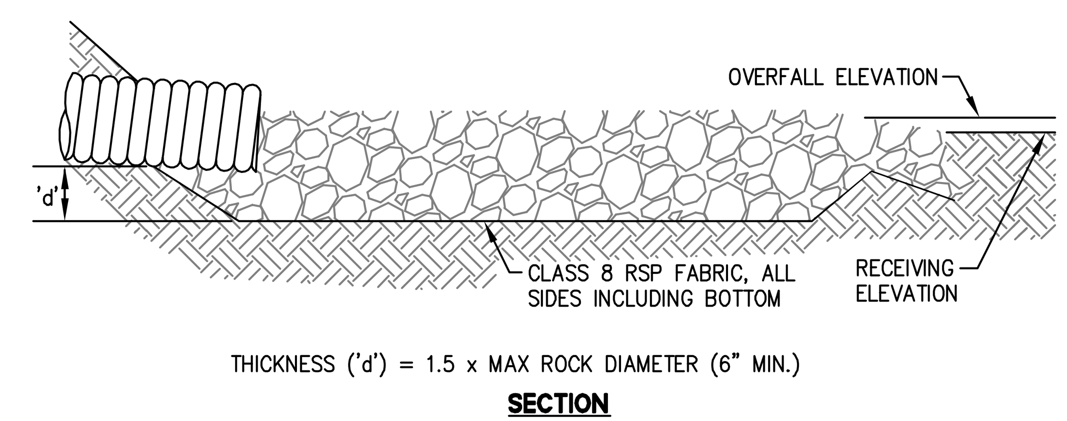
4 – CONCRETE SIDEWALK
NTS

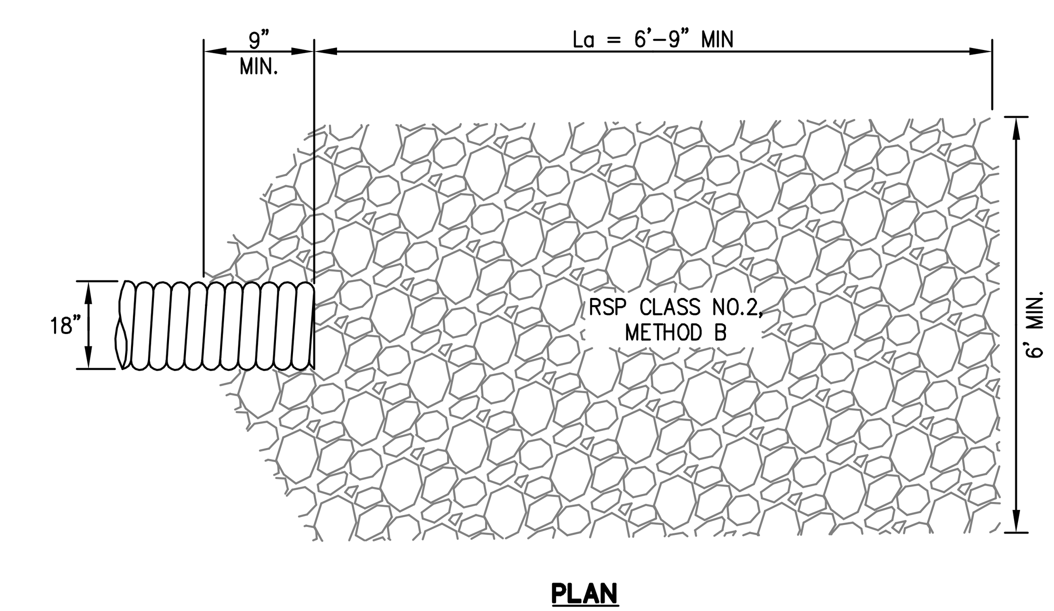


5 – CONCRETE MEDIAN
NTS



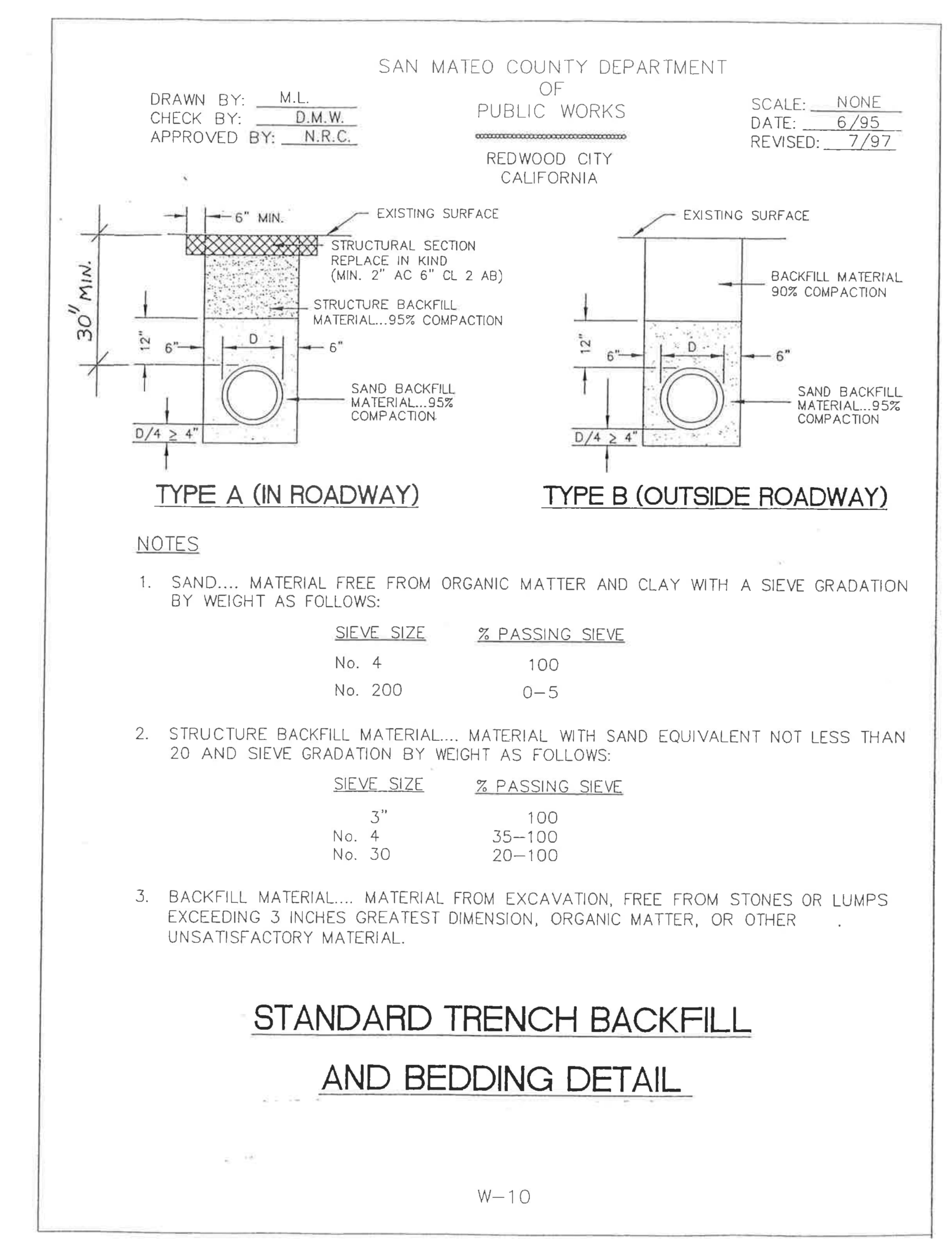
6 – R49 (CA) SIGN
NTS





NOTES:
1. 'La' = LENGTH OF APRON. DISTANCE 'La' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
2. APRON SHALL BE SET AT A ZERO GRADE AND ALIGNED STRAIGHT.
3. FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" THICK (MIN.) GRADED GRAVEL LAYER.

7 – ENERGY DISSIPATOR
NTS



8 – SAN MATEO COUNTY STANDARD DETAIL W-10 STANDARD TRENCH BACKFILL AND BEDDING
NTS

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

APPROVED DATE:
JASON MANSFIELD, PROJECT MANAGER
BKF ENGINEERS
R.C.E. # 59567 / EXPIRES 12-31-2023

BKF
ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: BKF (CT)
CHECKED BY: BKF (JM)
DRAWN BY: BKF (JC)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

MIDCOAST MULTI-MODAL TRAIL
MISCELLANEOUS DETAILS

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

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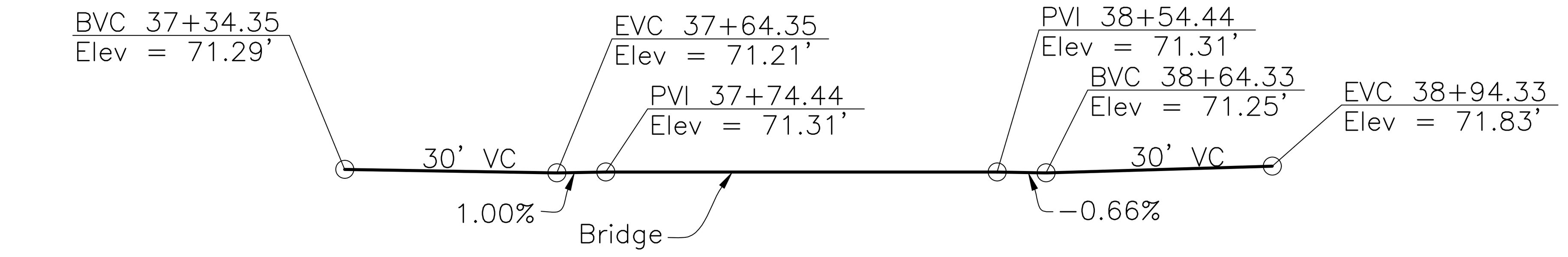
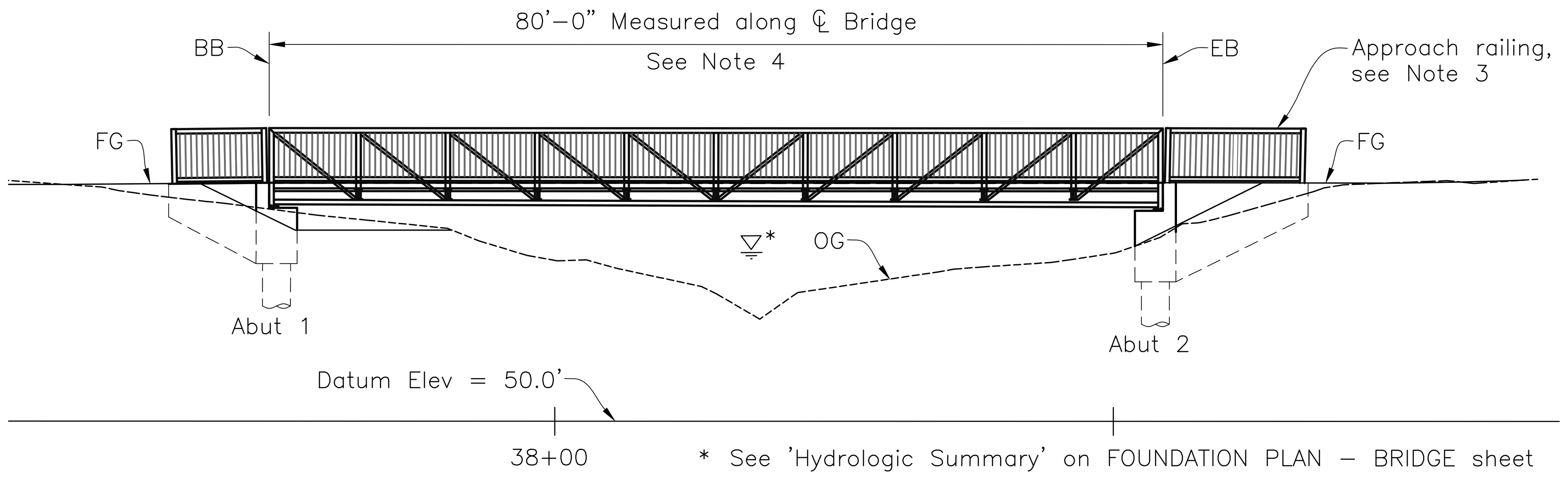
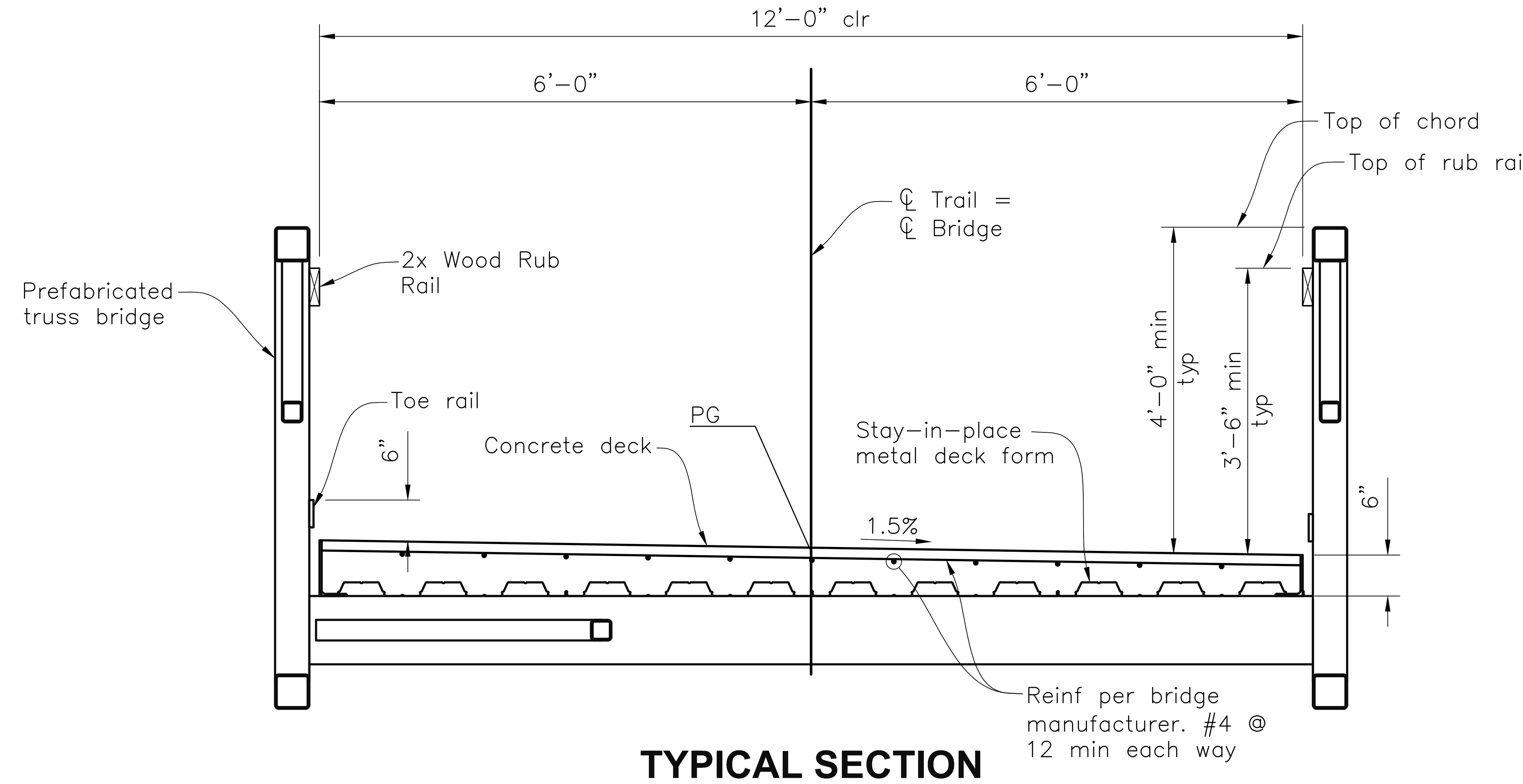
C-6.05



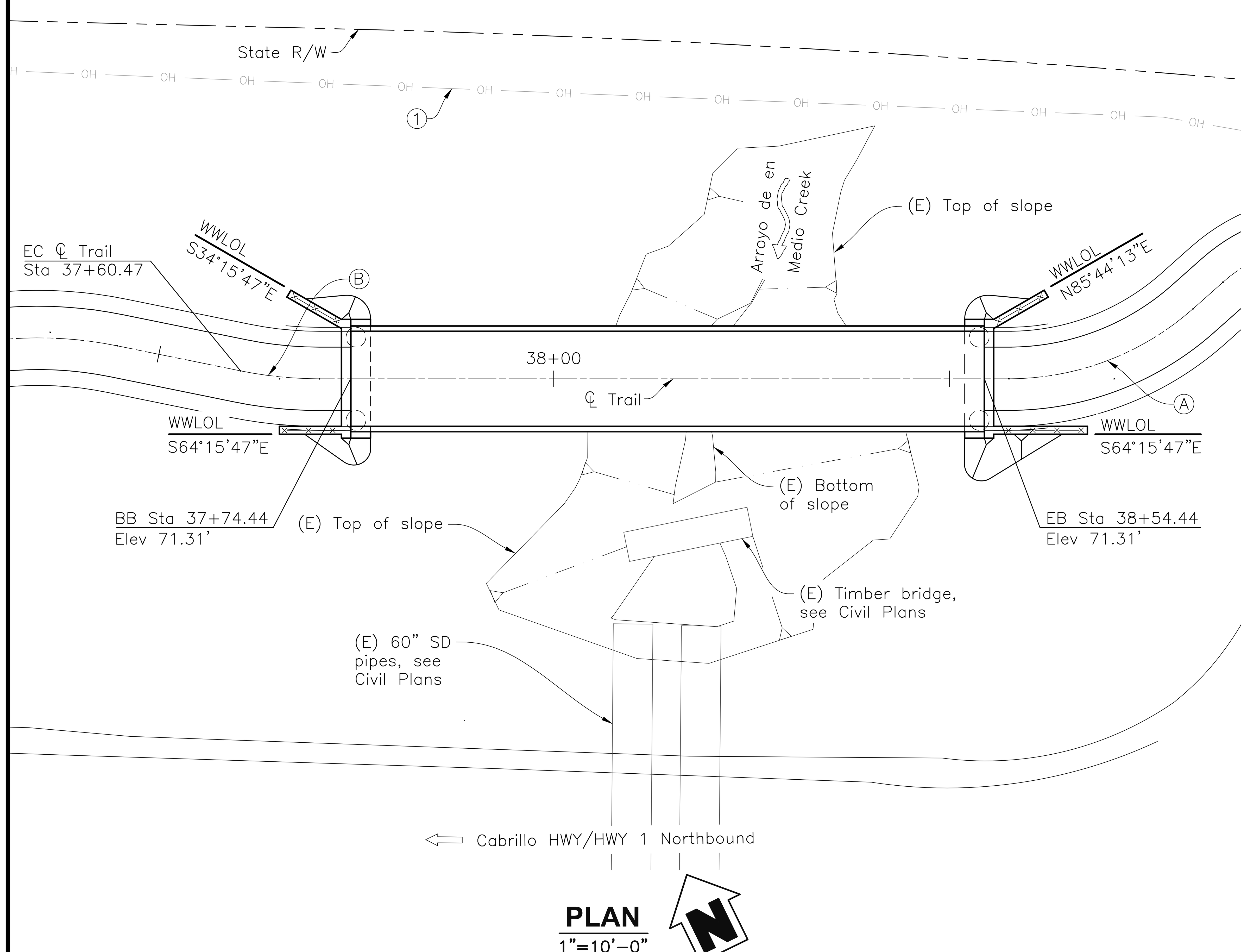
PROFILE GRADE
NOT TO SCALE



ELEVATION
1"=10'-0"



TYPICAL SECTION
3/4"=1'-0"



PLAN
1"=10'-0"

CALTRANS STANDARD PLANS DATED 2015

	A3A	ABBREVIATIONS (SHEET 1 OF 3)
	A3B	ABBREVIATIONS (SHEET 2 OF 3)
	A3C	ABBREVIATIONS (SHEET 3 OF 3)
	A10A	LEGEND - LINES & SYMBOLS (SHEET 1 OF 5)
RSP	A10B	LEGEND - LINES & SYMBOLS (SHEET 2 OF 5)
	A10C	LEGEND - LINES & SYMBOLS (SHEET 3 OF 5)
	A10D	LEGEND - LINES & SYMBOLS (SHEET 4 OF 5)
	A10E	LEGEND - LINES & SYMBOLS (SHEET 5 OF 5)
	A10F	LEGEND - SOIL (SHEET 1 OF 2)
	A10G	LEGEND - SOIL (SHEET 2 OF 2)
RSP	B11-75	CALIFORNIA ST ST-70 BRIDGE RAIL (SHEET 1 OF 4)
RSP	B11-76	CALIFORNIA ST ST-70 BRIDGE RAIL (SHEET 2 OF 4)
RSP	B11-77	CALIFORNIA ST ST-70 BRIDGE RAIL (SHEET 3 OF 4)
RSP	B11-78	CALIFORNIA ST ST-70 BRIDGE RAIL (SHEET 4 OF 4)

LEGEND

- B0-3 / 3-1: Indicates Caltrans standard plan sheet no. / Indicates detail no.
- A / S3: Indicates section letter / Indicates sheet no. shown on
- 1 / S3: Indicates detail no. / Indicates sheet no. shown on
- (1) Existing Overhead Electrical Line, see Civil Plans
- ×—× Indicates approach railing by bridge manufacturer

SHEET INDEX

CURVE DATA

CURVE	R	Δ	L
A	50.00'	11°27'34"	10.00'
B	35.00'	41°38'45"	25.44'

Verify Curve Data with Civil Plans

NOTES

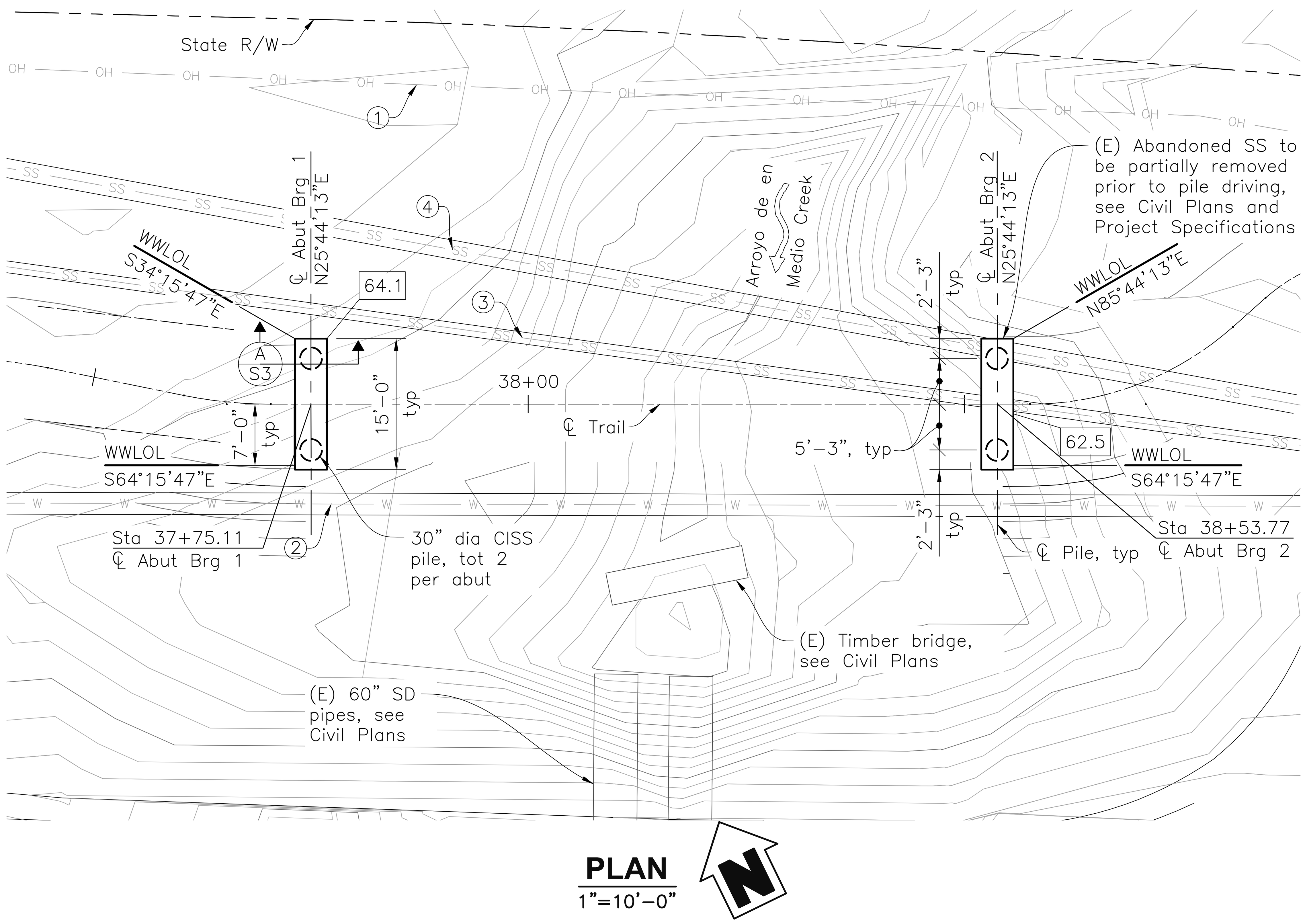
1. These plans shall incorporate the 2015 Caltrans Standard Specifications and 2015 Standard Plans, the 2015 Revised Standard Specifications, and the Project Special Provisions.
2. Bridge abutments designed for the maximum anticipated prefabricated bridge reactions, see "General Notes" on the FOUNDATION PLAN sheet.
3. Approach Railing shall match the aesthetic of the bridge railing system.
4. Prefabricated truss bridge length shall be verified by the Contractor with in-place location of abutments.
5. Contractor shall obtain and comply with all permit requirements established for the project.
6. Surveyor shall verify layout and elevation control.
7. Contractor shall verify all structure dimensions shown on these plans with the bridge supplier. Any discrepancies must be brought to the attention of the Engineer immediately.
8. All steel to be painted per the project special provisions.
9. Utility locations shown are schematic only. Contractor to verify all utilities and Pothole Areas as required by Civil Plans.

APPROVED:

DATE: 12/23/2021

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2021

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA



PLAN

1"=10'-0"

Notes:

1. $\boxed{62.5}$ Indicates bottom of abutment pile cap
2. -5- Indicates contour elevation.
3. ◯ Indicates 30"ø CISS Driven Pile.
4. Utility locations shown are approximate, for utility information and locations see Civil Plans. Pothole area as required by Civil Plans.
5. Right-of-way shown is approximate. See Civil Plans for right-of-way data and limits of work.
6. Contractor shall verify all existing controlling field dimensions before ordering or fabricating any material.
7. Contour interval = 1'.
8. Contours shown indicate existing grading. For finished grade contours, see Civil Plans.

Legend:

① Existing Overhead Electrical Line, see Civil Plans
② Existing Water Line, see Civil Plans
③ Existing Sanitary Sewer Line, see Civil Plans
④ Existing abandoned Sanitary Sewer Line, see Civil Plans

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD Guide Specification for the Design of Pedestrian Bridges, 2nd Edition & AASHTO LRFD Bridge Design Specifications, 6th Edition with Caltrans Amendments

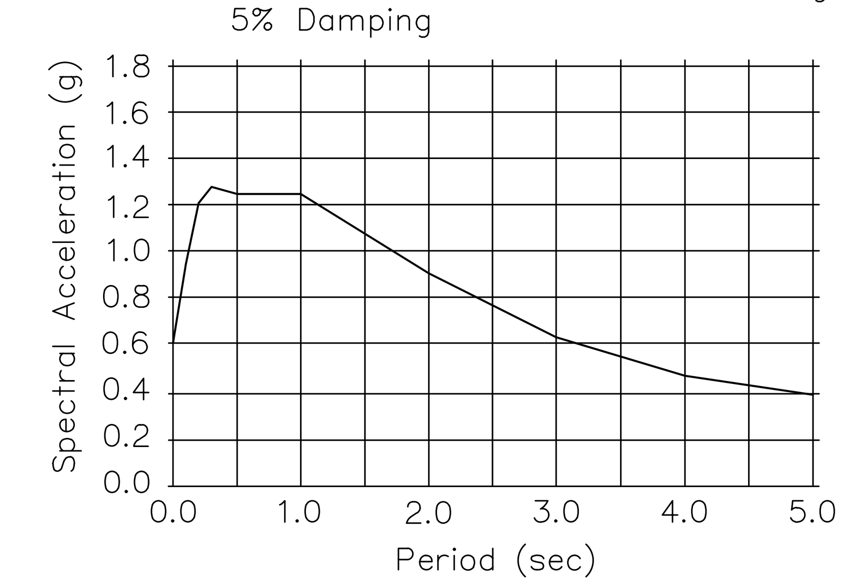
SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.7, dated April 2013. Superstructure members to be designed to remain elastic with an R factor of 1.0 (force equal to 1.0 x peak spectral acceleration) and connections to be designed with an R factor of 0.8 (force equal to 1.25 x peak spectral acceleration) per AASHTO LRFD Specifications.

DEAD LOAD: Bridge Self Weight (including concrete deck)

LIVE LOADING: 90 psf Pedestrian Load & H10 Design Vehicle

WIND LOADING: AASHTO Signs and Luminaires. Wind loads applied at right angles to the longitudinal axis of the structure. Consider wind load in design of lateral load bracing system and in the design of the truss vertical members, floor beams and their connection. For design of top chord, truss verticals, and floor beams, wind loads shall not be less than 50 pounds per lineal foot or a 200 pound point load, whichever produces greater stresses, applied in any direction at any direction at any point along the top chord.

SEISMIC LOADING: V_{s30} = 200 m/s or 660 ft/s
M_M = 8.0
Peak Ground Acceleration = 0.600g
5% Damping



ACCELERATION RESPONSE SPECTRUM

ABUTMENT REACTIONS: Maximum bridge service loading reactions are as follows:

Dead Load	28,250 lb
Vehicular Live Load	10,000 lb
Pedestrian Live Load	21,600 lb

Reactions are per each bearing (2 bearings per abutment)

SOIL CRITERIA FOR DESIGN: Per Foundation Report provided by Parikh, dated 3/18/2020:

Soil Unit Weight = 120 pcf
Active equivalent fluid pressure (undrained) = 80 pcf
Traffic Load (lateral) = 72 psf
Incremental Seismic Earth Pressure = 90 pcf

HYDROLOGIC SUMMARY

Drainage Area: 0.91 mi²

Frequency	Design Flood	Base Flood
	50-yr	100-yr
Discharge	318 cfs	365 cfs
Water surface at Bridge	65.0 ft	65.4 ft

Flood plain data are based upon the Final Hydraulics Report dated June 25, 2020 prepared by BKF Engineers. The accuracy of said information is not warranted by Cornerstone Structural Engineering Group, Inc. and interested or affected parties should make their own investigation.

SCOUR DATA TABLE

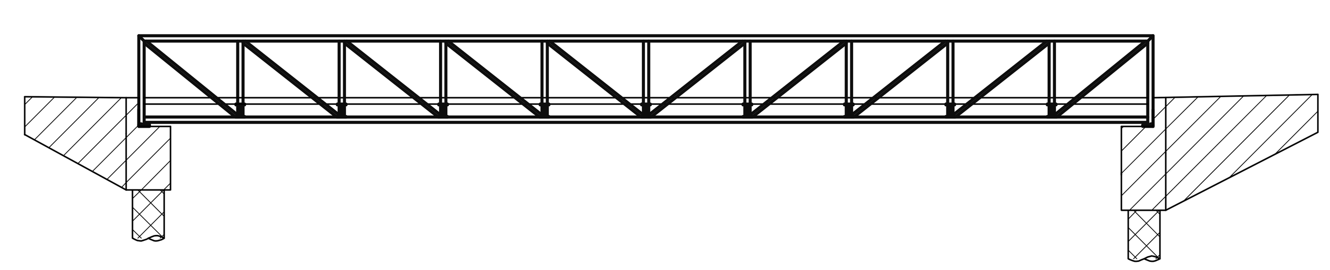
Support Location	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
Abut 1	66.8	0
Abut 2	65.5	0

PILE DATA TABLE

Location	Pile Type	Nominal Resistance		Design Tip Elev (ft)	Specified Tip Elev (ft)	Required Nominal Driving Resistance (Kips)
		Compression	Tension			
Abut 1	30" CISS x 0.625"	160 kips	0 kips	(1) 22.0; (3) 20.5; (4) 27.0	20.5	250
Abut 2	30" CISS x 0.625"	175 kips	0 kips	(1) 18.0; (3) 18.0; (4) 23.0	18.0	250

Notes:

1. Design tip elevation is controlled by the following demands: (1) Compression (2) Tension (3) Lateral (4) Settlement.
2. The specified tip elevations shall not be raised above the design tip elevations for tension, lateral, and tolerable settlement.
3. The nominal driving resistance required is equal to the nominal resistance needed to support the factored load plus driving resistance from the unsuitable penetrated soil layers (very soft, liquifiable, scourable, etc.) if any, which do not contribute to the design resistance.



Indicates Structural Concrete, Bridge (f'c = 4,000 psi at 28 days)
Indicates Structural Concrete, Bridge (f'c = 3,600 psi at 28 days)
Indicates 30" diameter CISS Piling (f'c = 3,600 psi at 28 days)

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

APPROVED DATE: 12-23-2021

NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

DESIGN OVERSIGHT Emil A. Vergara Jr.
2-23-21
SIGN OFF DATE

REGISTERED PROFESSIONAL ENGINEER SHAWN M. CULLERS No. S5561 STRUCTURAL STATE OF CALIFORNIA
2/23/2021

CORNERSTONE structural engineering group

BKF ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: CDI
CHECKED BY: JPJ
DRAWN BY: CDI

MIDCOAST MULTI-MODAL TRAIL
FOUNDATION PLAN - BRIDGE

ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

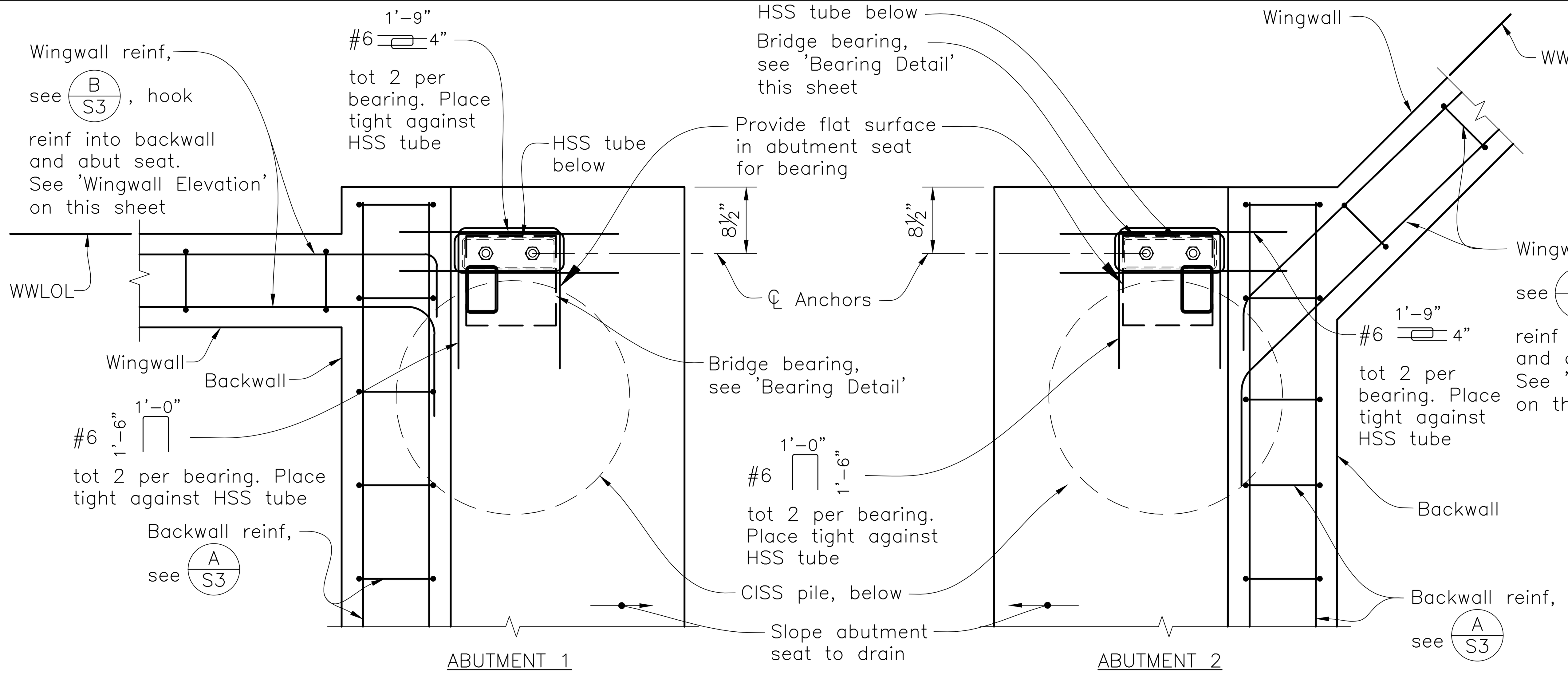
555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

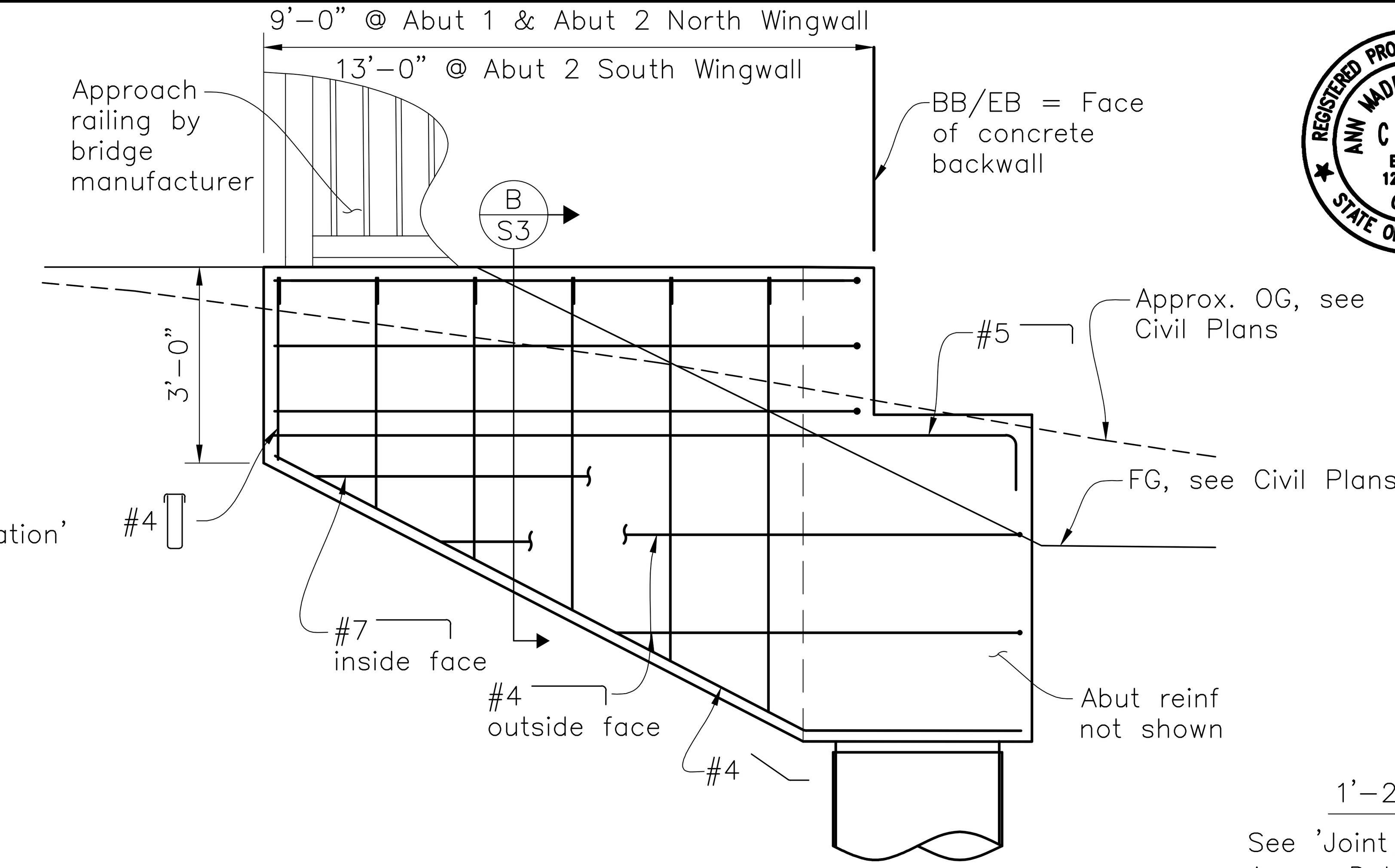
SCALE: AS NOTED
DATE: 12/08/2021
FILE NO.: 1/4952

S2

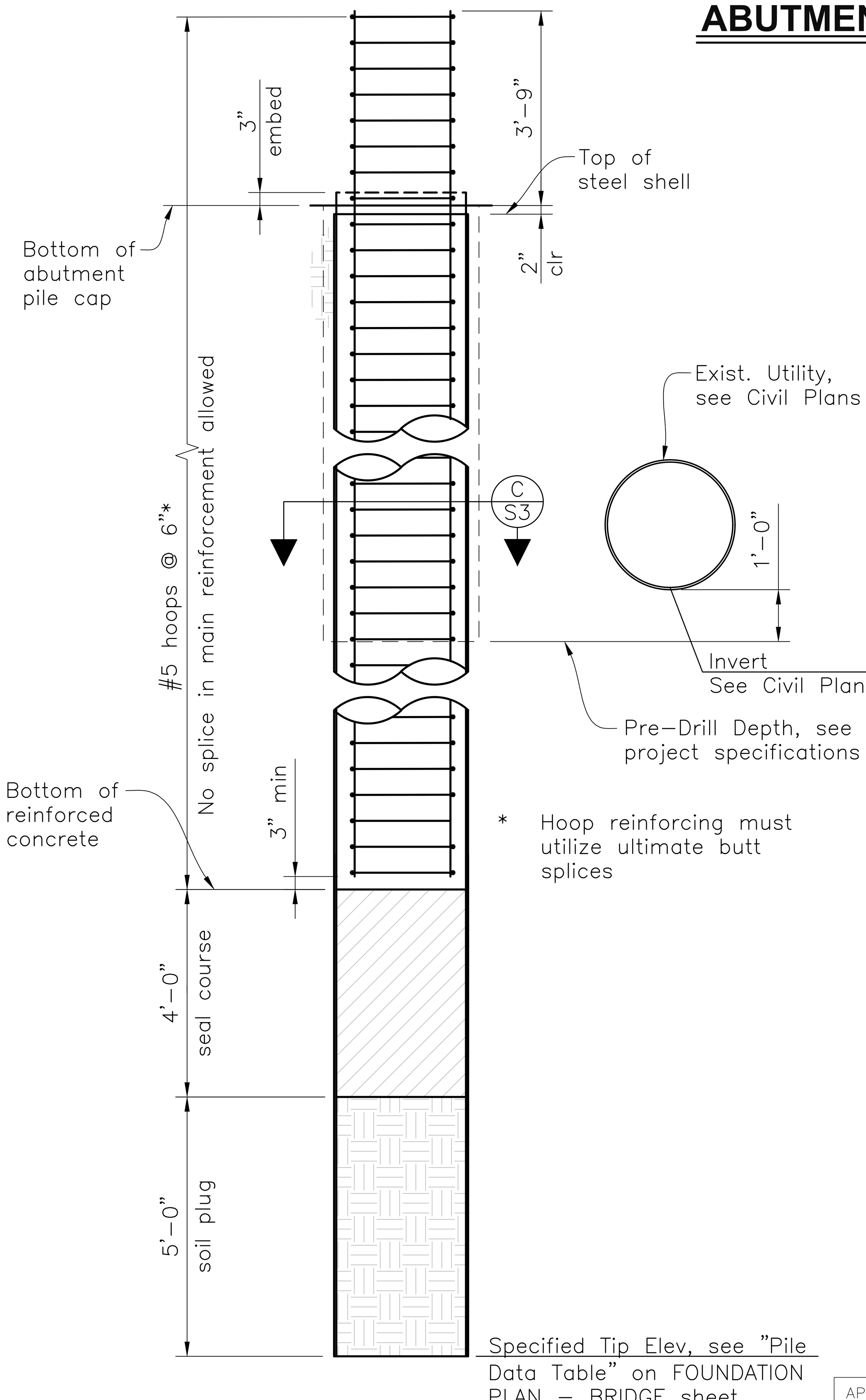
DRAWING NAME: W:\2015\2015033 San Mateo Co. Multi-Modal Trail\S2-Foundation Plan.dwg
PLOT TIME: 02-23-21



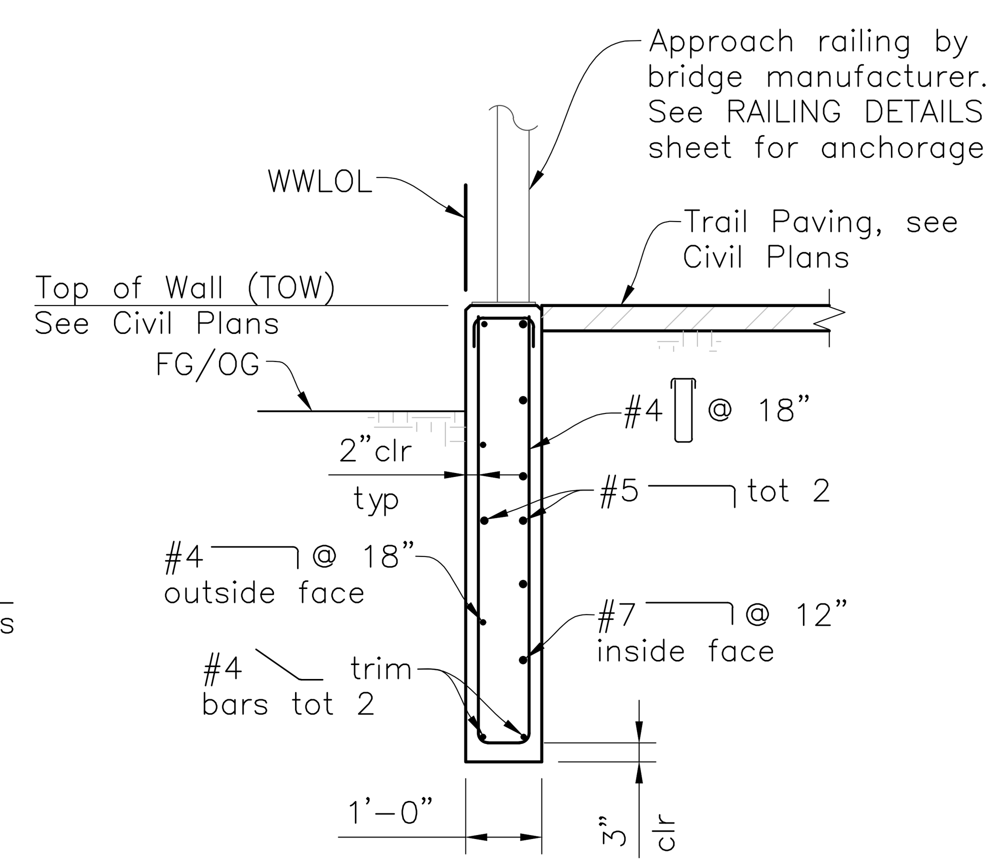
ABUTMENT PARTIAL PLAN
1"=1'-0"



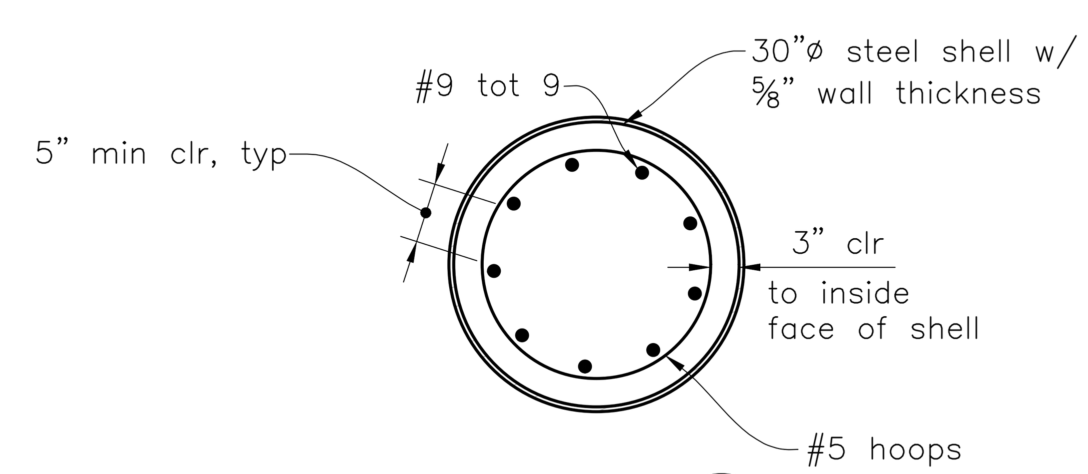
WINGWALL ELEVATION
1/2"=1'-0"



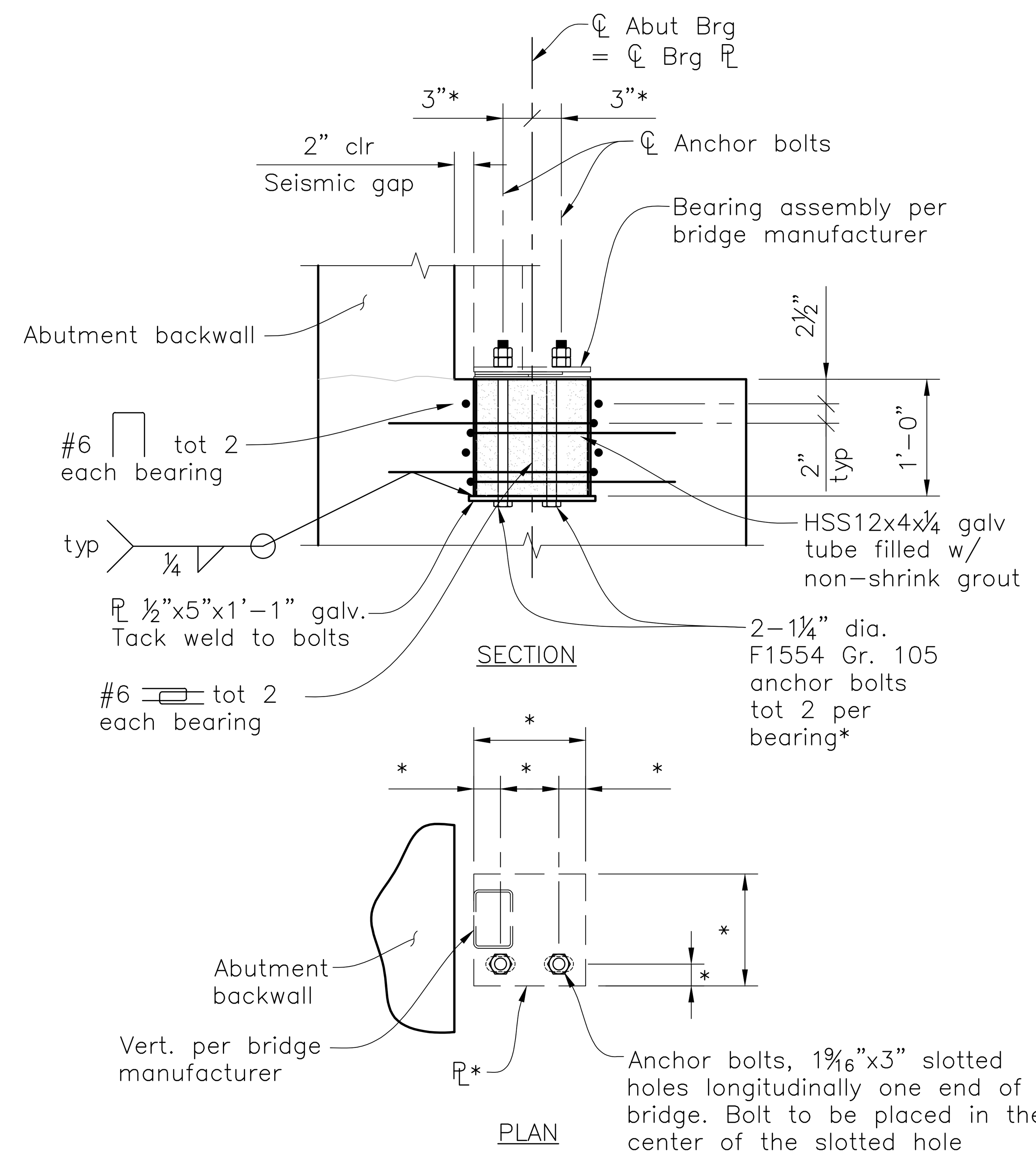
30" DIA CISS PILE ELEVATION
1/2"=1'-0"



SECTION B S3
1/2"=1'-0"

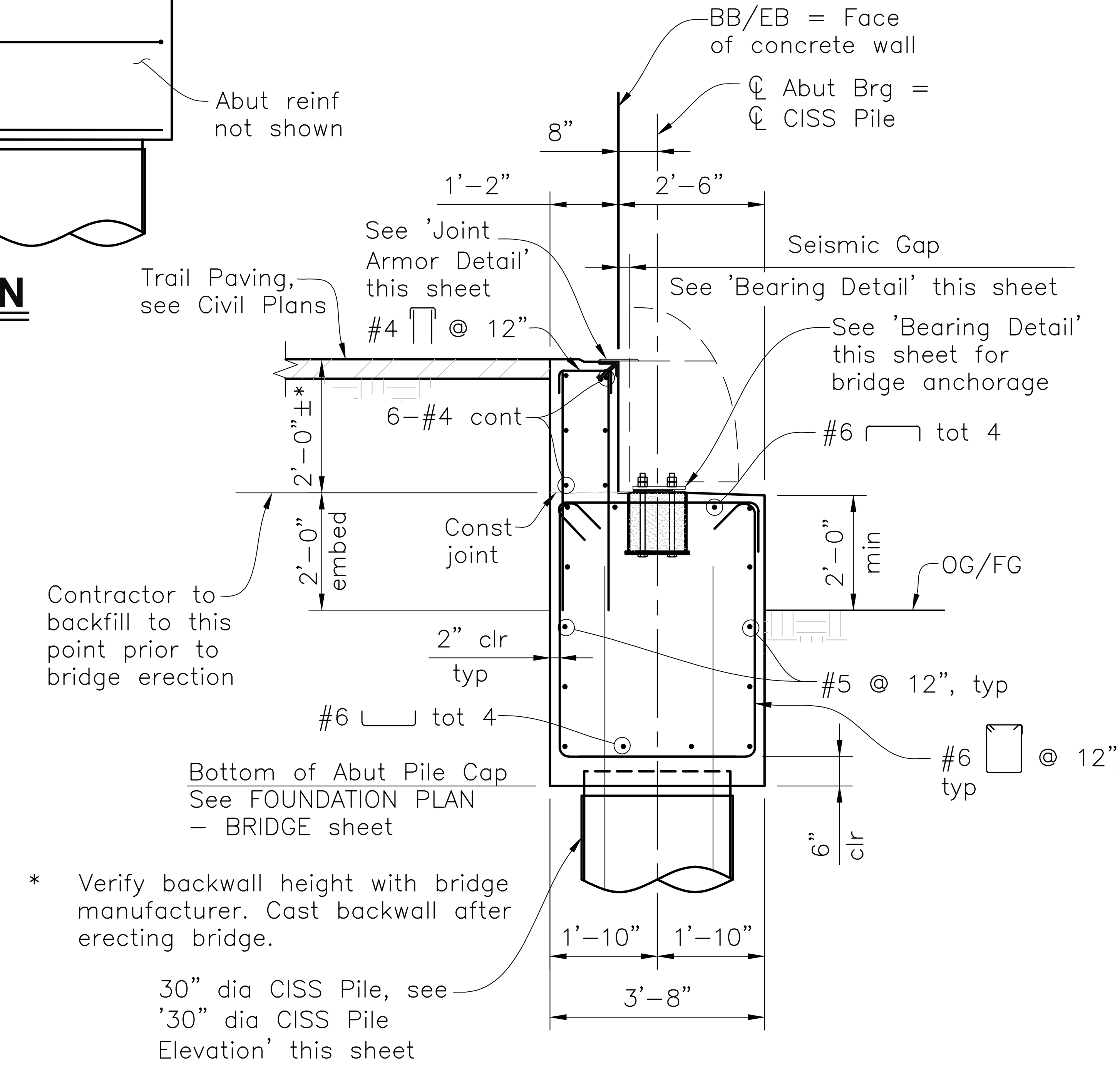


SECTION C S3
3/4"=1'-0"

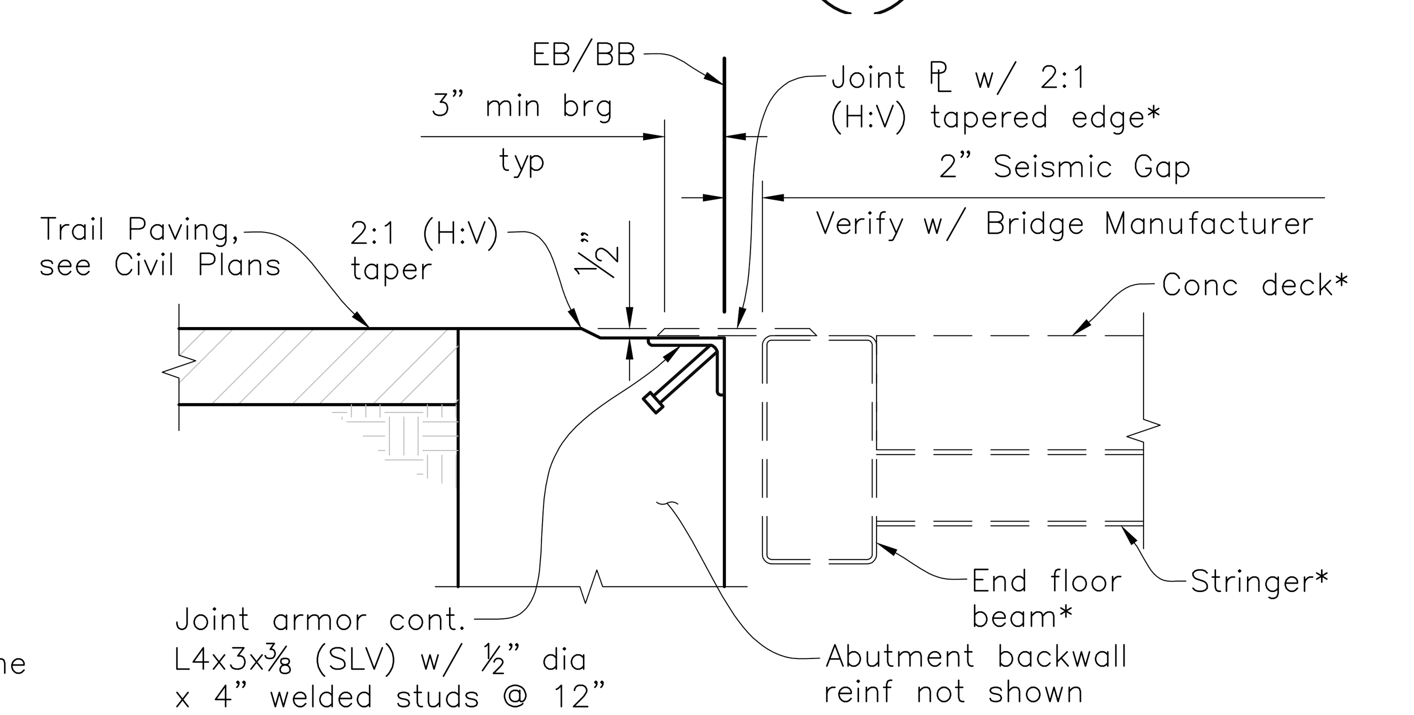


BEARING DETAIL
1"=1'-0"

* Verify with bridge manufacturer



SECTION A S3
1/2"=1'-0"



JOINT ARMOR DETAIL
1 1/2"=1'-0"

* See prefabricated steel truss bridge drawings

APPROVED:
DATE: 12/23/2021
ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2021

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

DESIGN OVERSIGHT Emil A. Vergara Jr.
2-23-21
SIGN OFF DATE

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CORNERSTONE structural engineering group

BkF ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
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COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: CDI
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DRAWN BY: CDI

MIDCOAST MULTI-MODAL TRAIL
ABUTMENT DETAILS

ANN MADER STILLMAN
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COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
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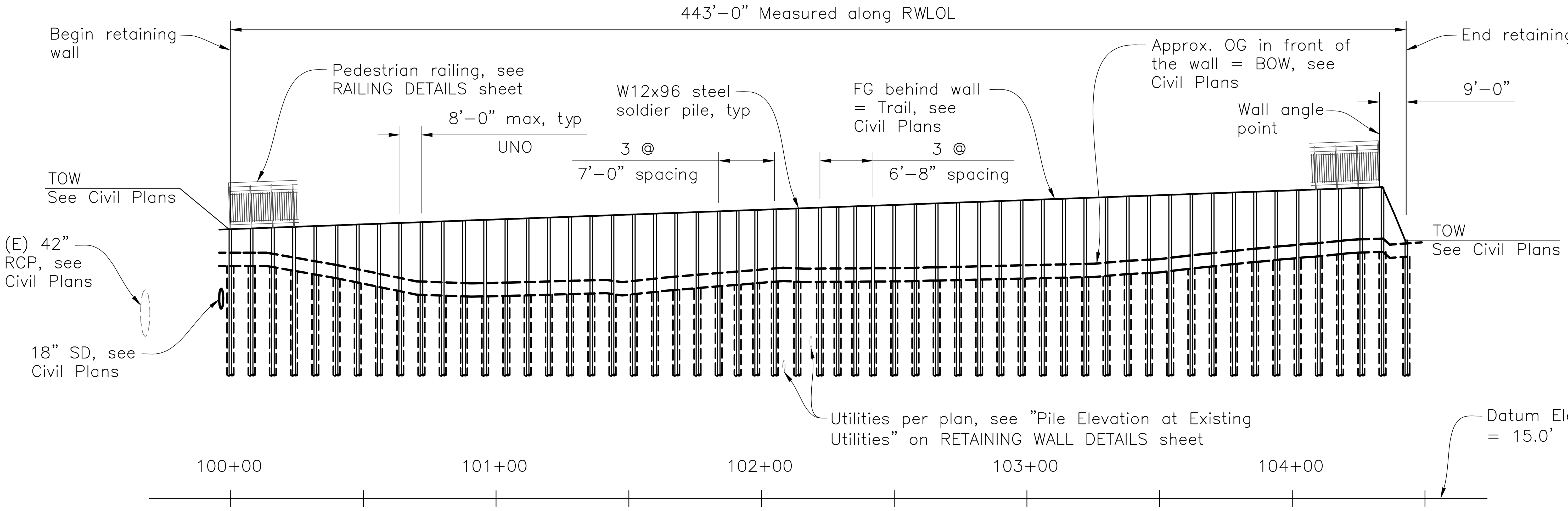
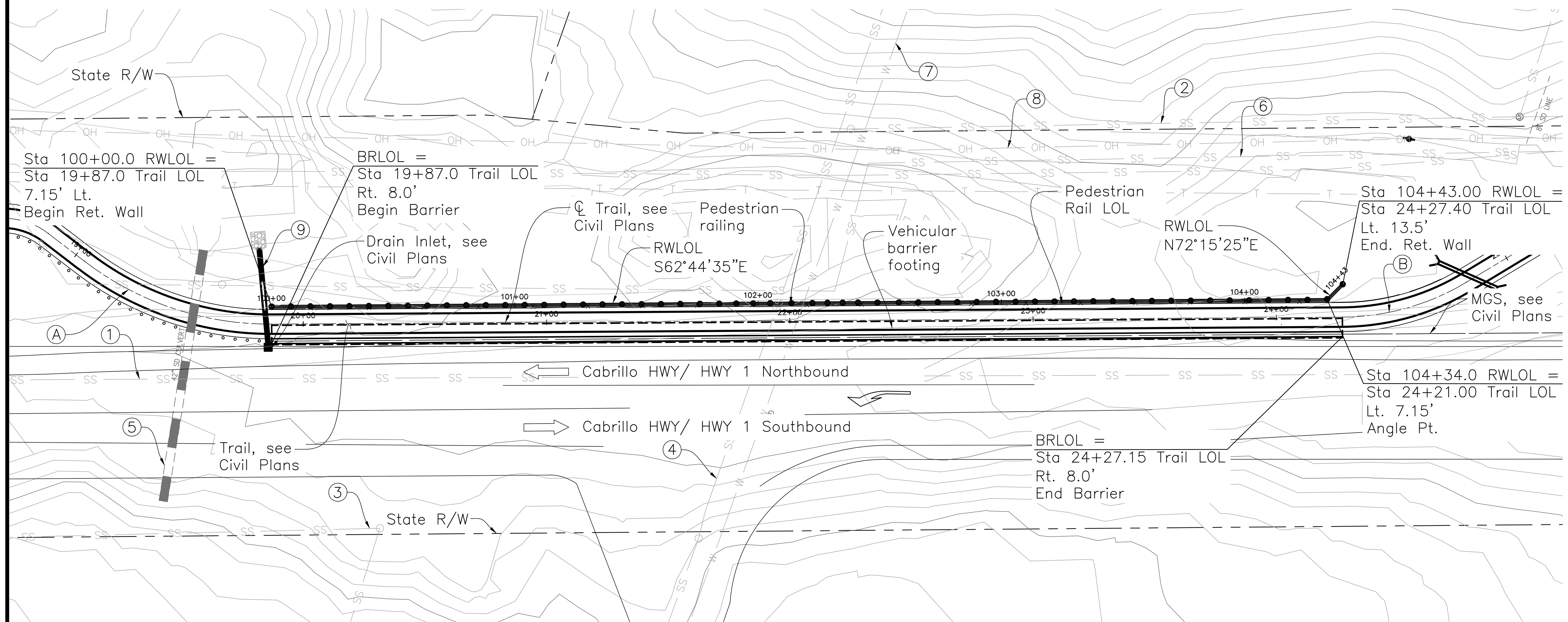
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2021

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA



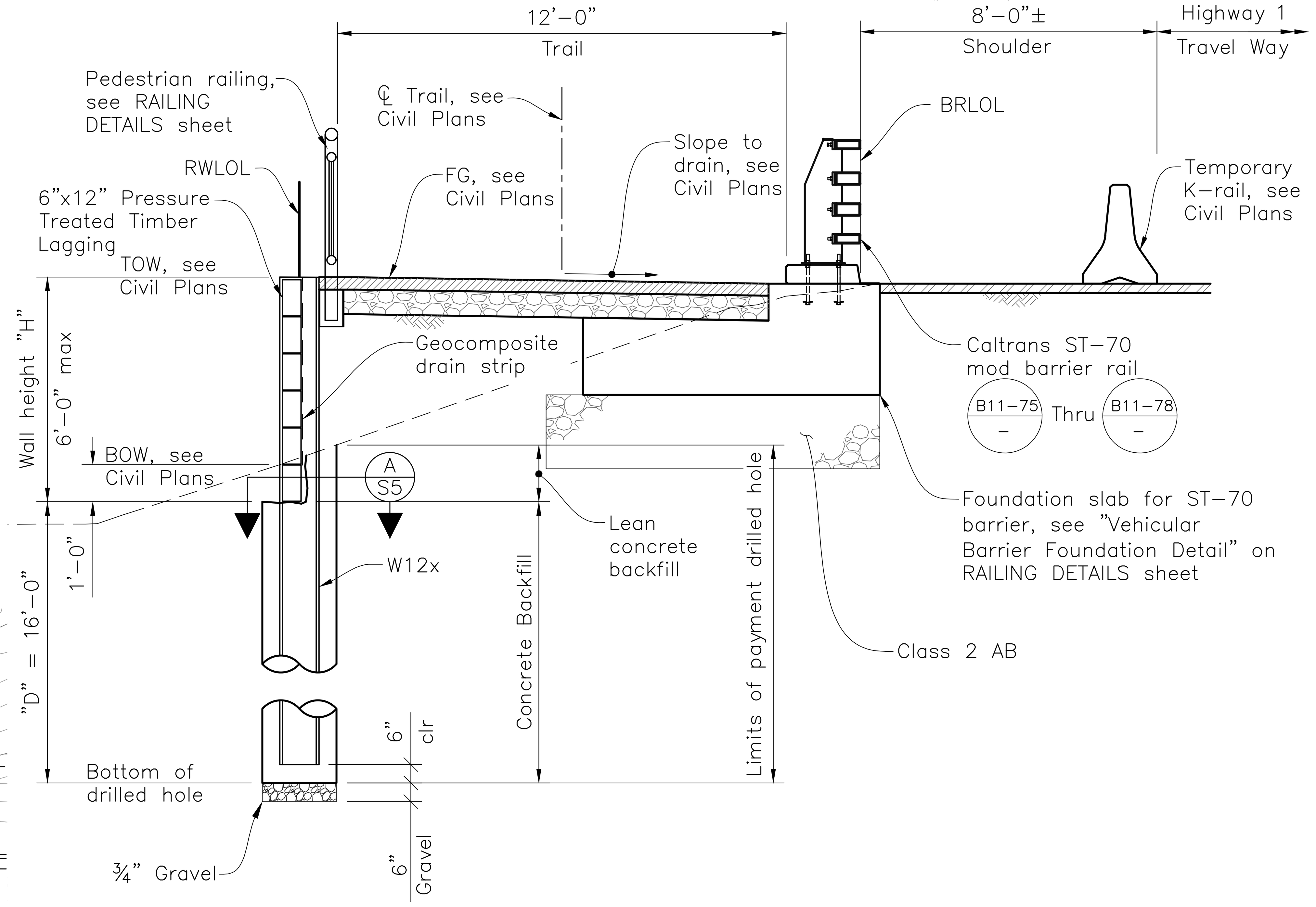
DEVELOPED MIRRORED ELEVATION

Horiz: 1"=30'-0"
Vert: 1"=6'-0"



PLAN

1"=30'-0"



TYPICAL SECTION

3/8"=1'-0"

GENERAL NOTES

DESIGN: AASHTO LRFD Bridge Design Specifications, 6th Edition with Caltrans Amendments

LIVE LOADING: H10 Design Vehicle

SOIL CRITERIA FOR DESIGN: Per Foundation Report provided by Parikh, dated 3/18/2020:

Soldier Pile Wall:

Soil Unit Weight	= 120 pcf (retained soil)
	= 60 pcf (below design grade)
Active equivalent Fluid Pressure (drained)	= 40 pcf
Passive pressure	= 150 pcf (top 5 feet)
	= 270 pcf (below top 5 feet)
Arching factor	= 2 (top 5 feet)
	= 3 (below top 5 feet)
Traffic Load (Lateral)	= 40 psf (from H10 vehicle)
Incremental Seismic Earth Pressure	= 30 pcf

Vehicular Barrier:

Nominal Bearing Capacity	= 5 ksf
Friction Coefficient	= 0.45 (between footing and AB)
Nominal Passive Earth Pressure	= 500 pcf

STEEL SOLDIER PILES: ASTM A572/A, ASTM 572M Grade 50 min, or ASTM A36/A36M

STRUCTURAL TIMBER: Treated Douglas Fir, Grade No. 1 or better Timber to be full sawn.

CONCRETE: f'_c = 4,000 psi

Legend:

1. Existing Sanitary Sewer Line, see Civil Plans
2. Existing Sanitary Sewer Line, see Civil Plans
3. Existing Sanitary Sewer Line, see Civil Plans
4. Existing 10" Sanitary Sewer Line, see Civil Plans
5. Existing 42" RCP, see Civil Plans
6. Existing Sanitary Sewer Line, see Civil Plans
7. Existing 10" Water Line, see Civil Plans
8. Existing Overhead Line, see Civil Plans
9. Proposed 18" Storm drain, see Civil Plans

TOW Top of Wall
BOW Bottom of Wall

Notes:
1. For additional layout & finish grade information see Civil Plans.
2. Contractor to verify all existing conditions in the field and inform the Engineer of any discrepancies with the plans.
3. Contractor to field verify limits of drilled hole.
4. The contractor shall be responsible for maintaining roadway and wall stability during all temporary conditions and construction operations.
5. Utility locations shown are schematic. Contractor to verify all utilities with Civil Plans, and Pothole areas as required on the Civil Plans.
6. Contours shown on plan are existing and proposed, see Civil Plans.

CURVE DATA			
CURVE	R	Δ	L
A	128.50'	37°32'07"	84.18'
B	100.00'	31°04'44"	54.24'

Verify Curve Data with Civil Plans

DESIGN OVERSIGHT Emil A. Vergara Jr.
2-23-21
SIGN OFF DATE

APPROVED DATE: 12-23-2021
NICHOLAS CALDERON, PARKS DIRECTOR
SMC PARKS DEPARTMENT

REGISTERED PROFESSIONAL ENGINEER SHAWN M. CULLERS No. S5561 STRUCTURAL STATE OF CALIFORNIA
2/23/2021

CORNERSTONE structural engineering group

BKF ENGINEERS/SURVEYORS/PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: CDI
CHECKED BY: TLS
DRAWN BY: CDI

MIDCOAST MULTI-MODAL TRAIL
GENERAL PLAN - RETAINING WALL

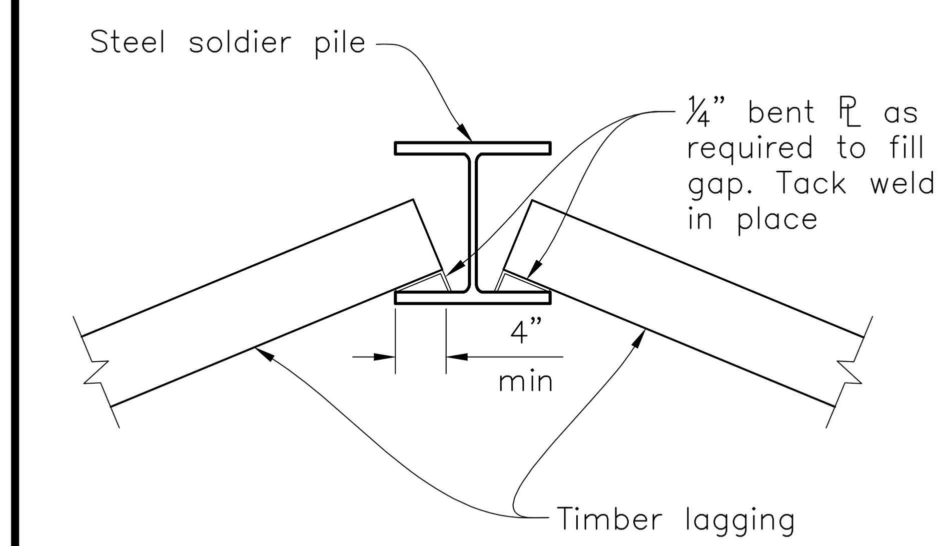
ANN MADER STILLMAN
INTERIM DIRECTOR OF PUBLIC WORKS
COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

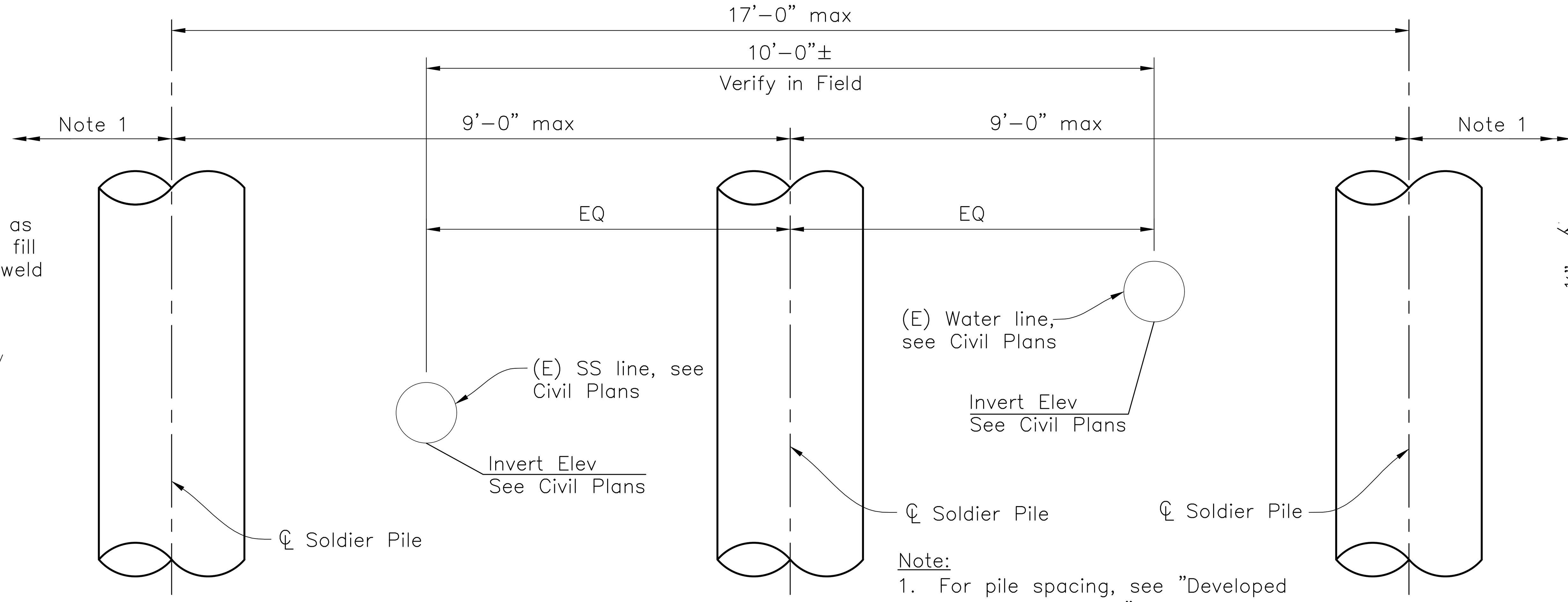
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

SCALE: AS NOTED
DATE: 12/08/2021
FILE NO.: 1/4952
S4

DRAWING NAME: ...General Plan-Ret Wall.dwg
PLOT TIME: 02-23-21

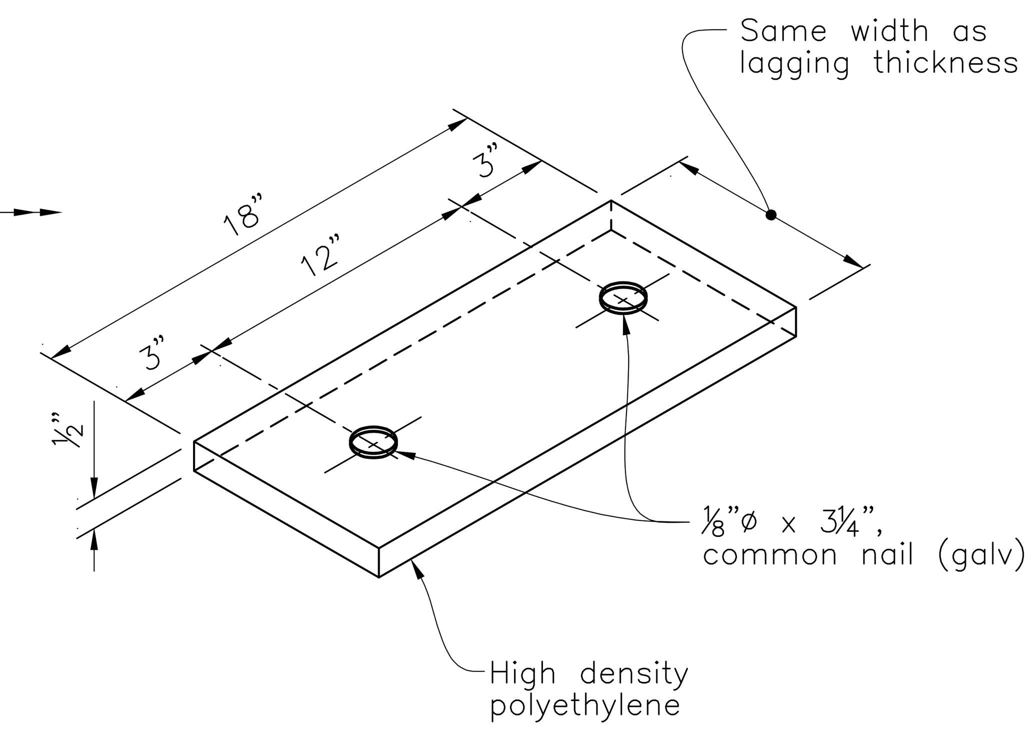


DETAIL 1/S5
1"=1'–0"

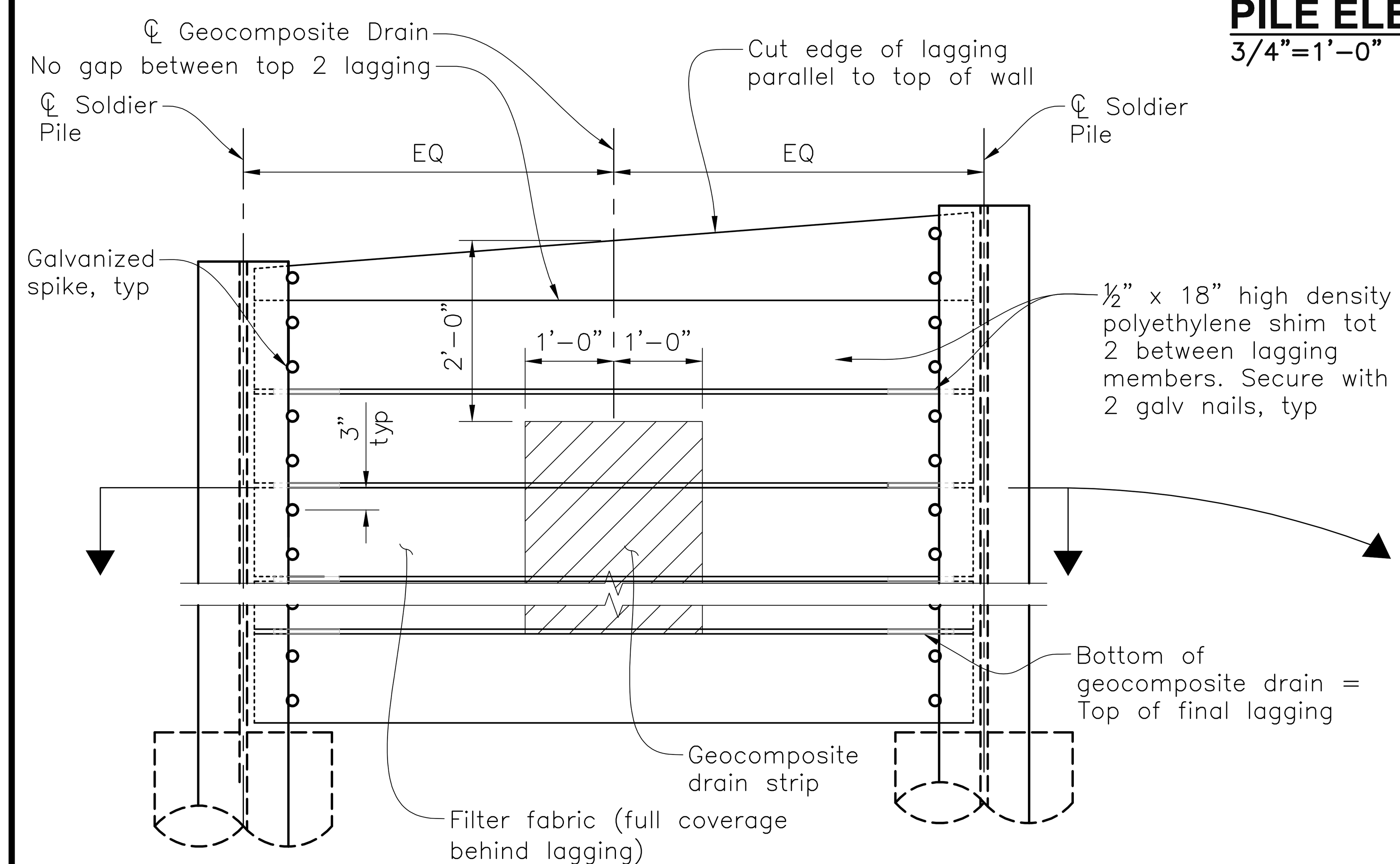


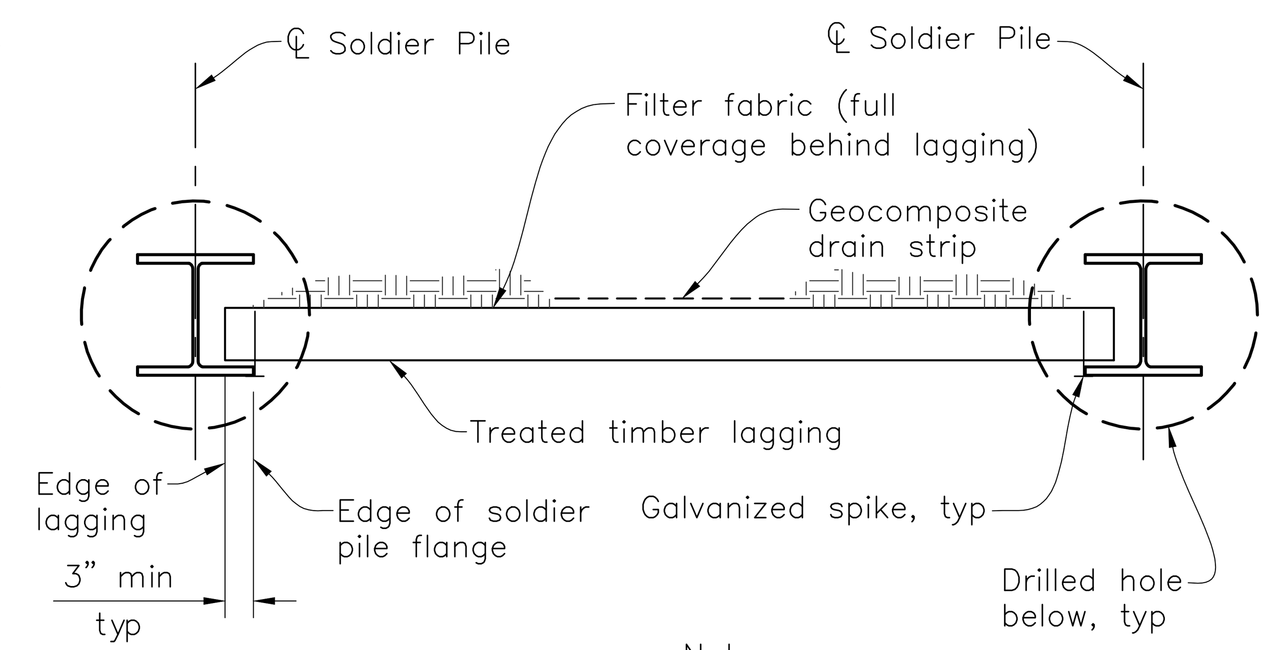
Note:
1. For pile spacing, see "Developed Mirrored Elevation" on GENERAL PLAN – RETAINING WALL sheet.

PILE ELEVATION AT EXISTING UTILITIES
3/4"=1'–0"



SHIM DETAIL
NO SCALE

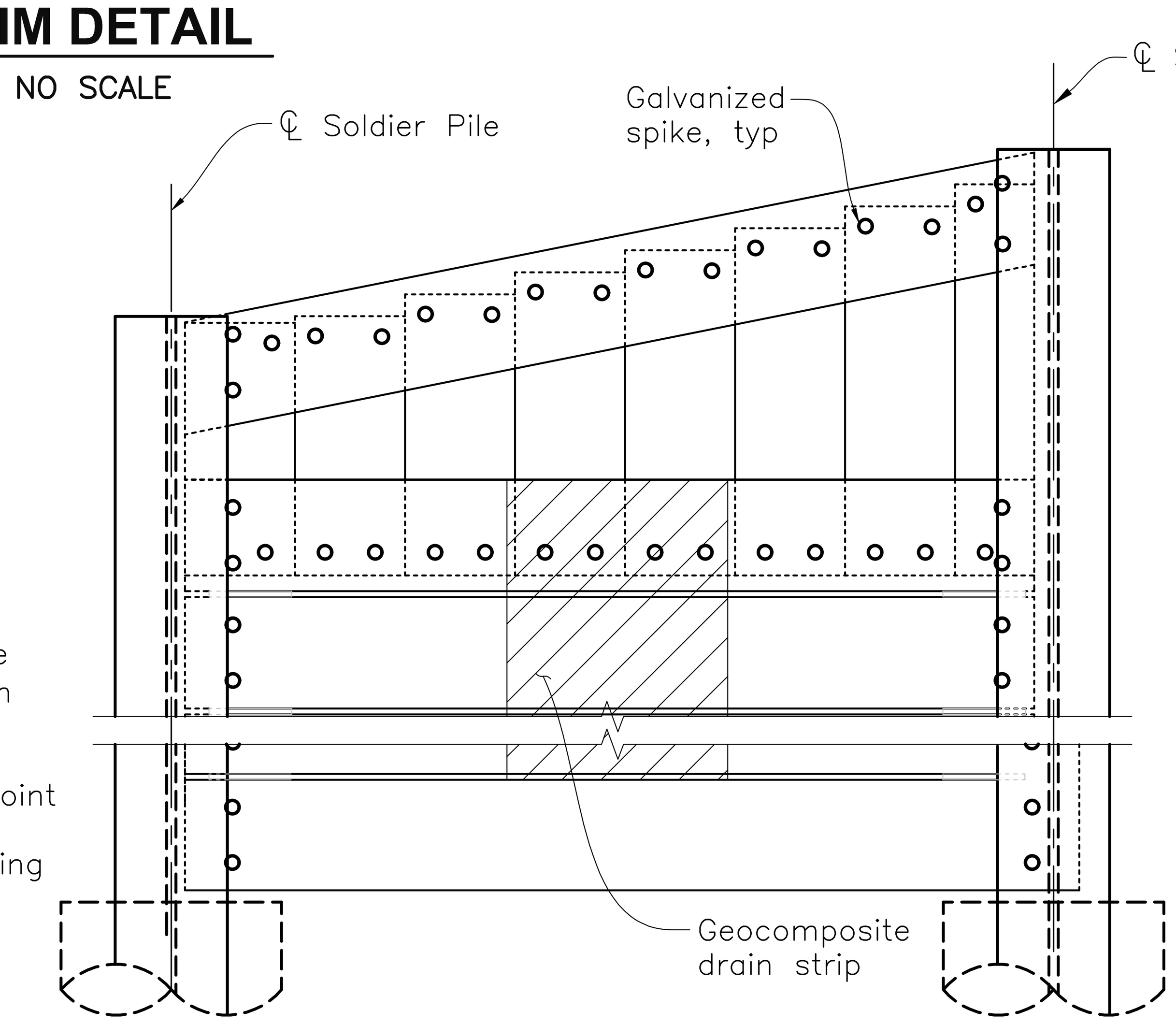




Notes:
1. Clipping of timber lagging corners is not allowed.
2. Use 40d galvanized wire spikes for 6x12 lagging.

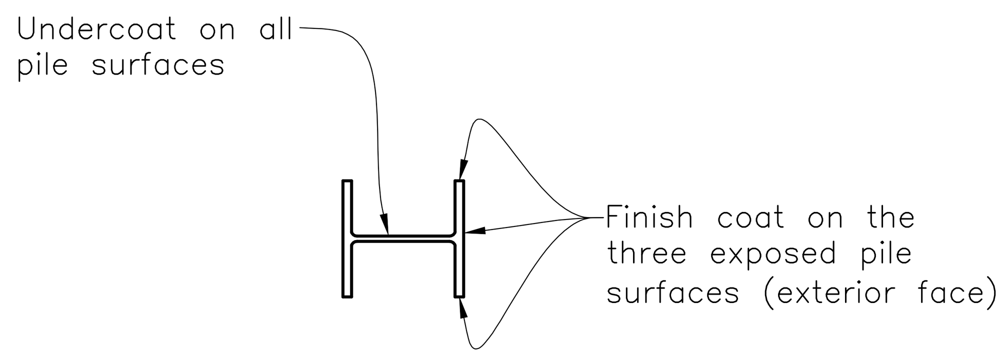
TYPICAL LAGGING DETAILS 2/S5
3/4"=1'–0"

Notes:
1. For details not shown, see 'Typical Lagging Details' on this sheet.
2. Use this detail at angle point to end of retaining wall where steep angle in lagging is required.

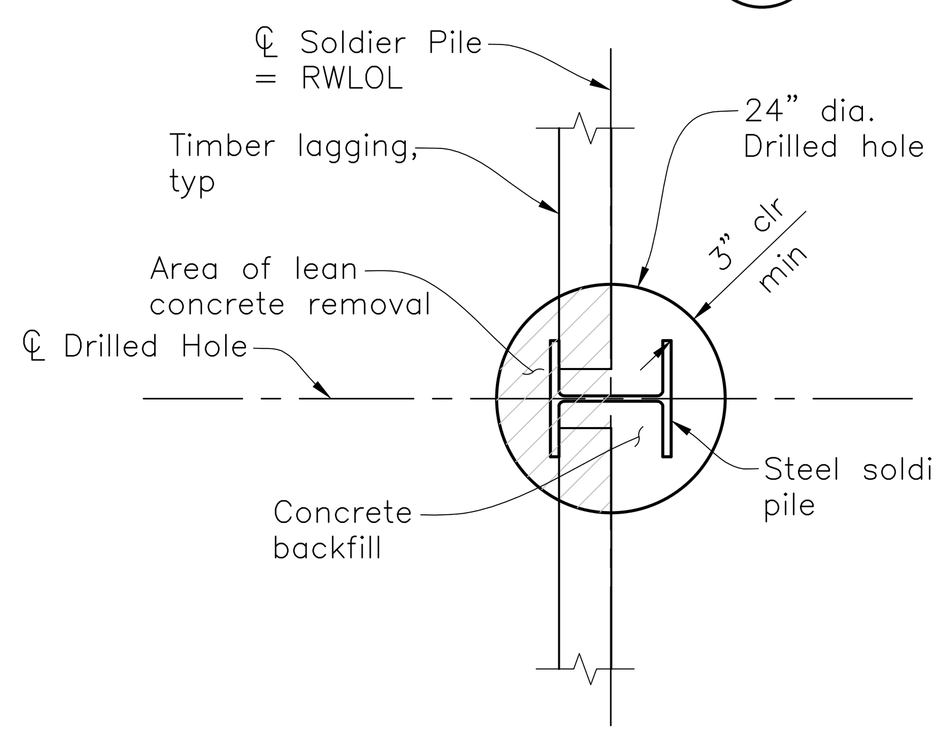


VERTICAL LAGGING DETAILS 3/S5
3/4"=1'–0"

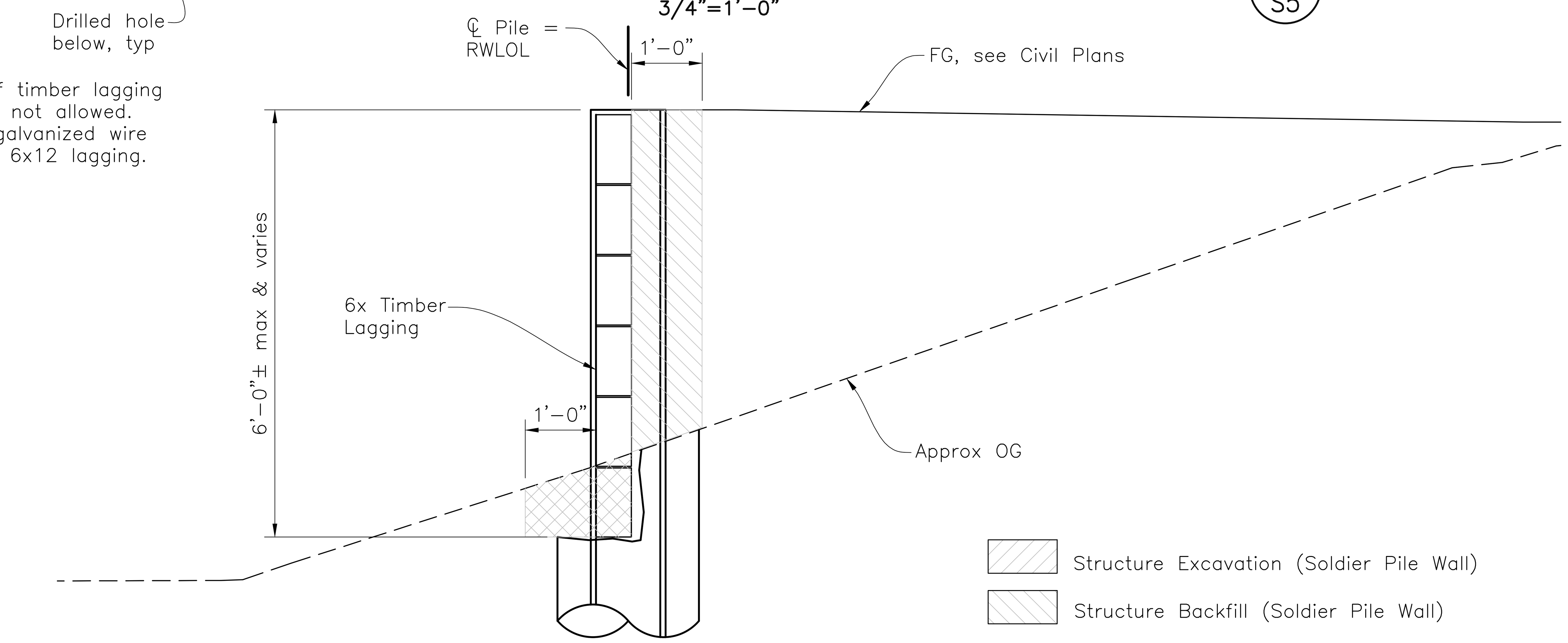
Note:
Ⓐ Clean and paint Steel Soldier Pile from top of pile to 5'–0" min below bottom of lagging



LIMITS OF CLEAN & PAINT STEEL SOILDER PILE
NO SCALE



SECTION A/S5
3/4"=1'–0"



EXCAVATION / BACKFILL DIAGRAM
3/4"=1'–0"

APPROVED:
DATE: 12/23/2021
ANN MADER STILLMAN,
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COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE

DESIGNED BY: CDI
CHECKED BY: JPJ
DRAWN BY: CDI

MIDCOAST MULTI–MODAL TRAIL
RETAINING WALL DETAILS

ANN MADER STILLMAN
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COUNTY SAN MATEO

555 COUNTY CENTER, 5th FLOOR
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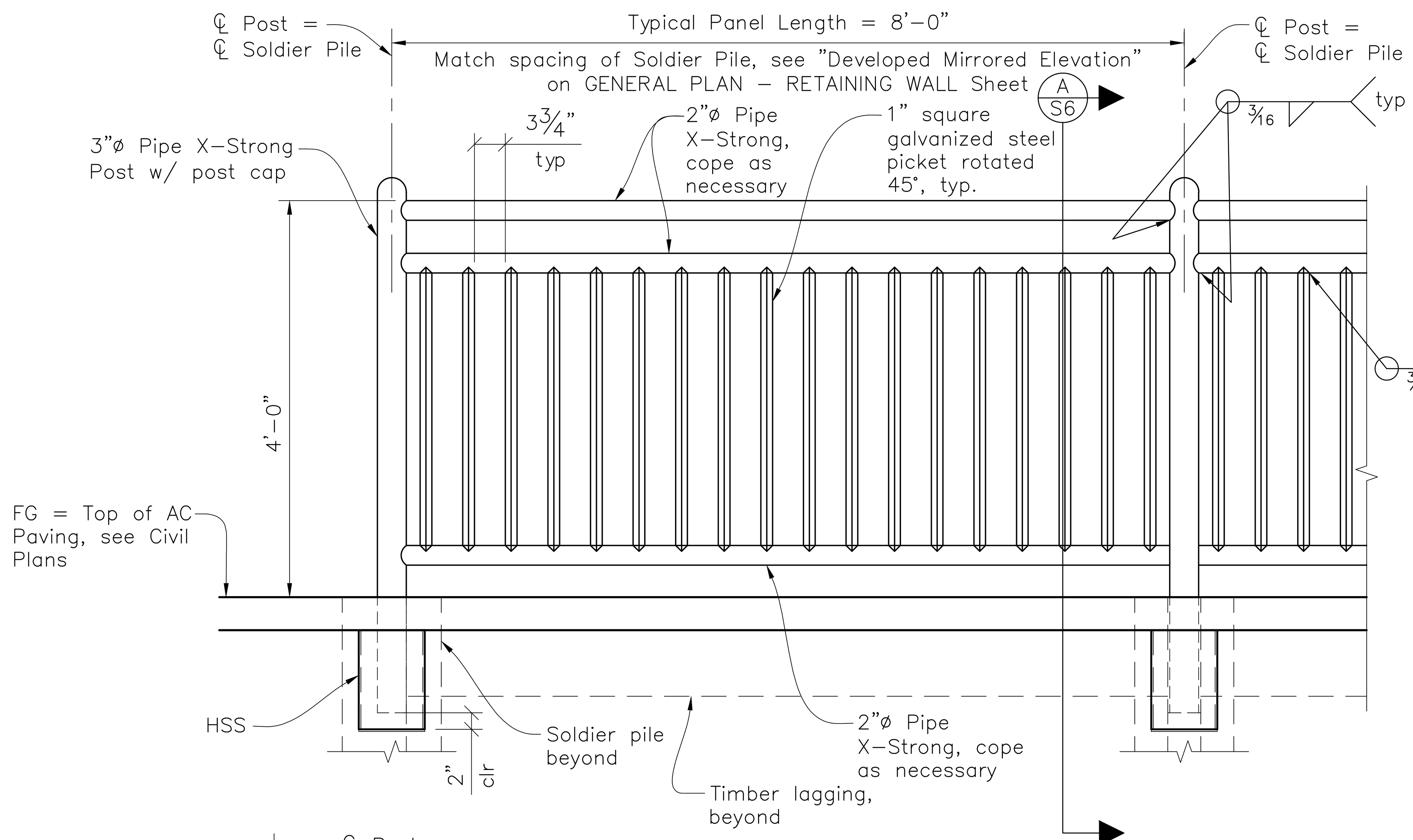
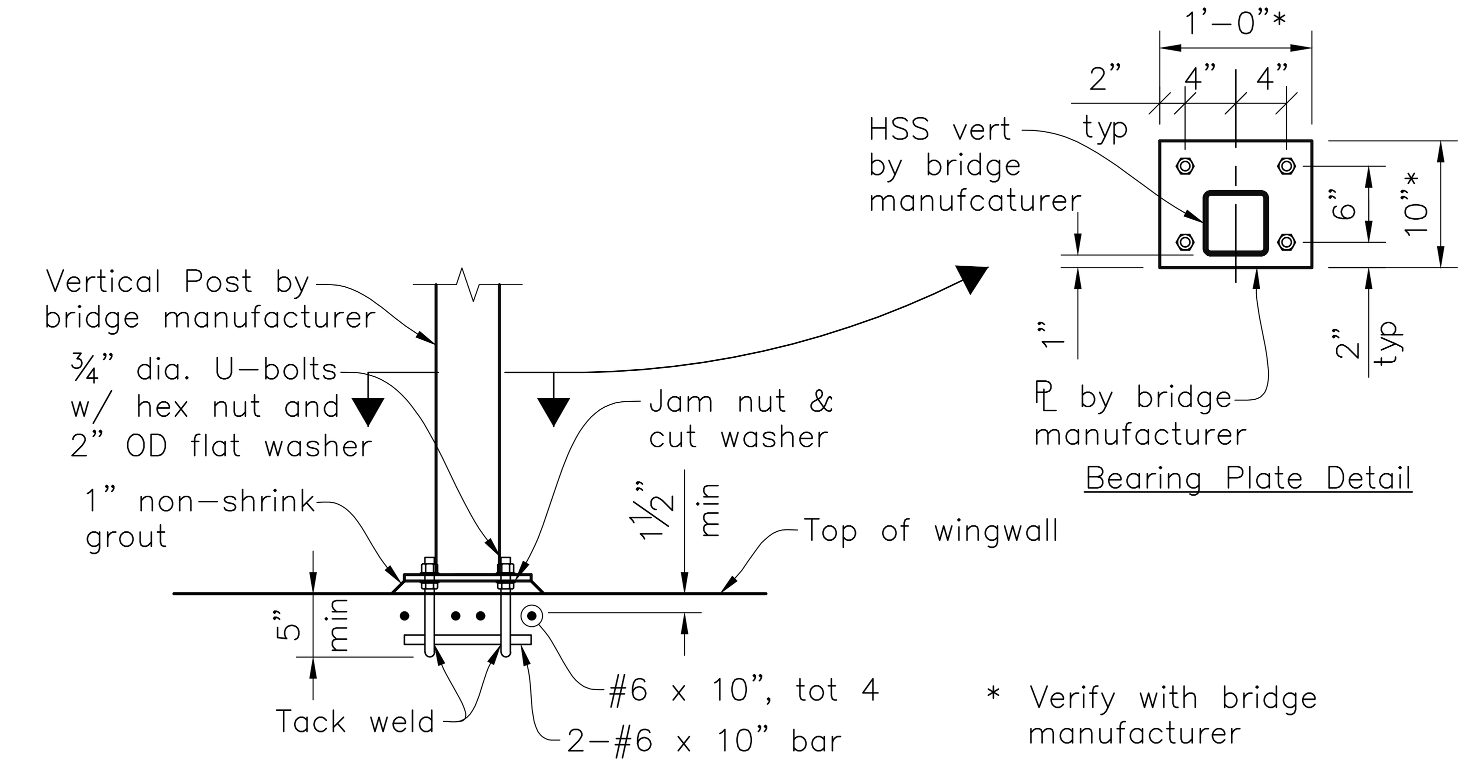
S5
SHEET 37 OF 38



PARTIAL ELEVATION

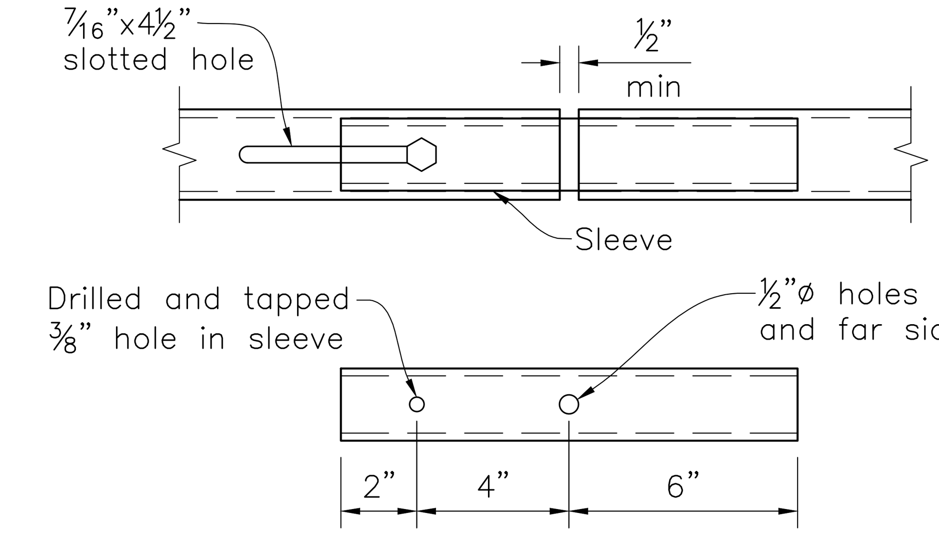
1" = 1'–0"



RAILING ANCHORAGE @ BRIDGE APPROACH

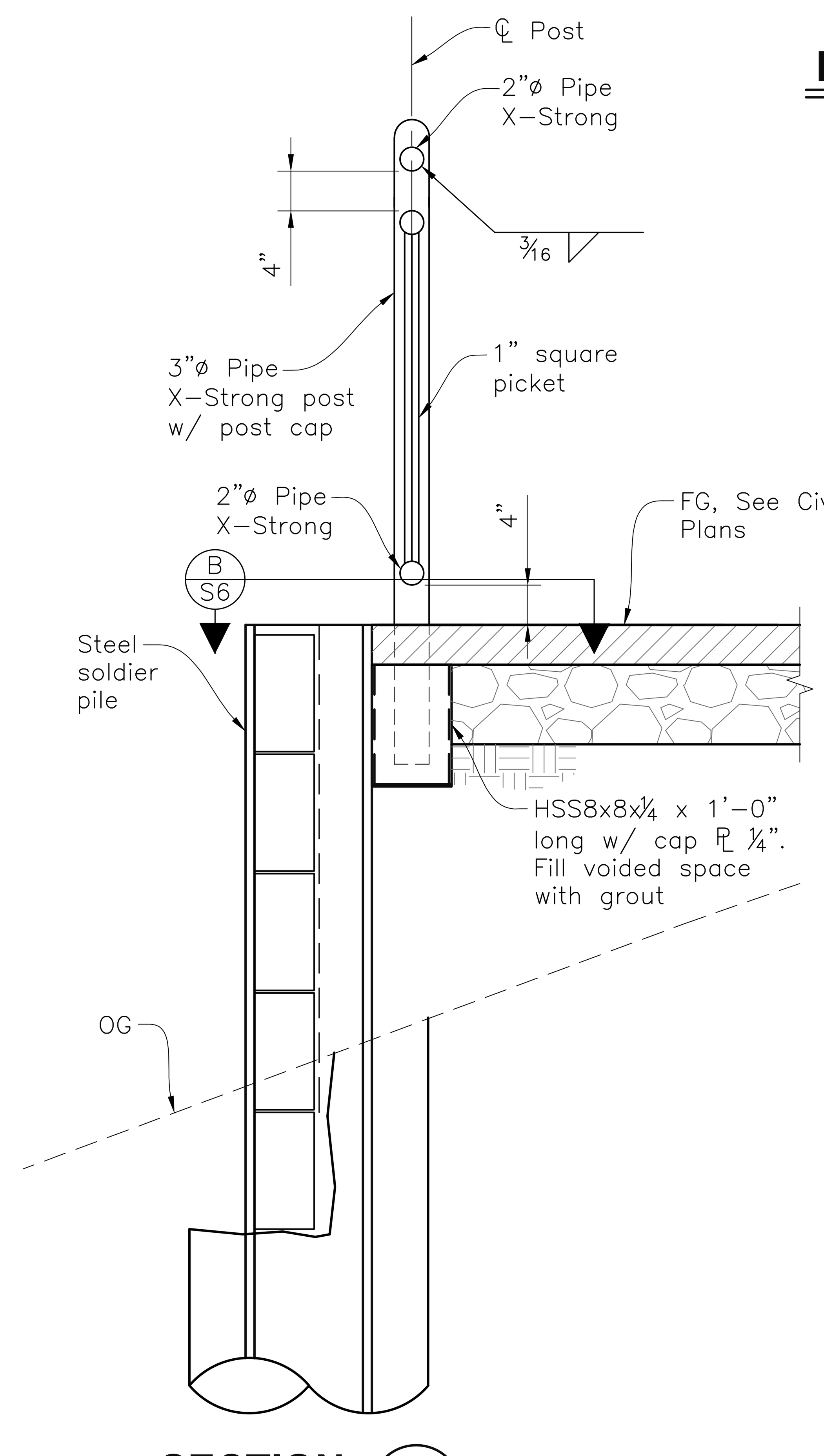
1 / S6

1"=1'–0"



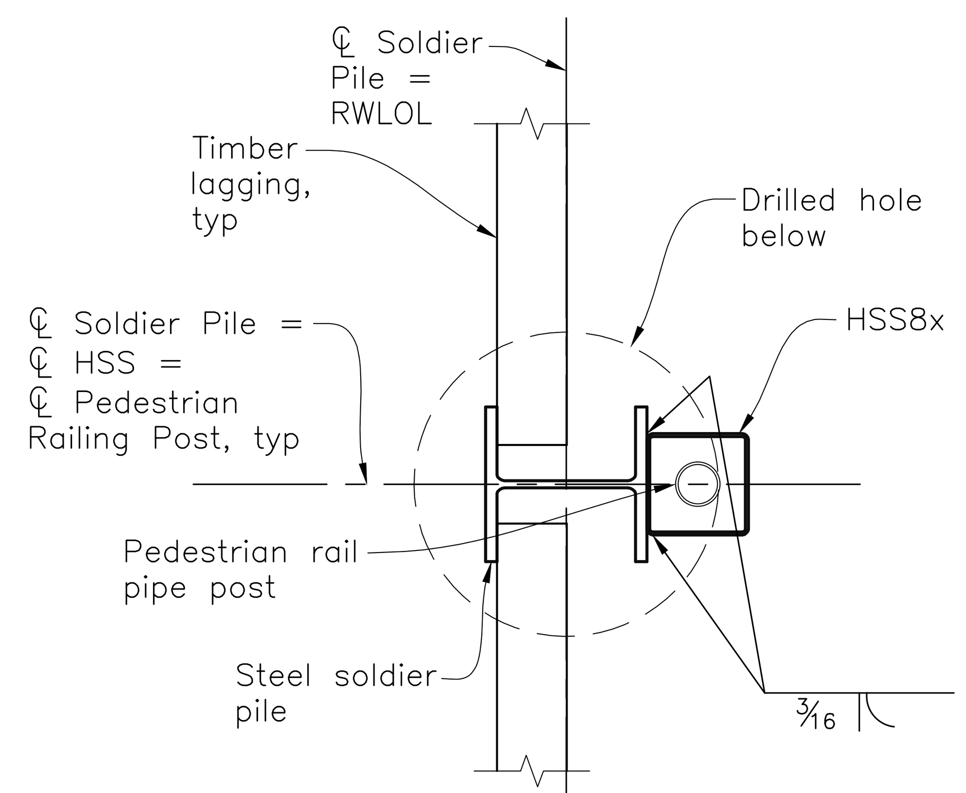
SLEEVE DETAIL

3" = 1'–0"



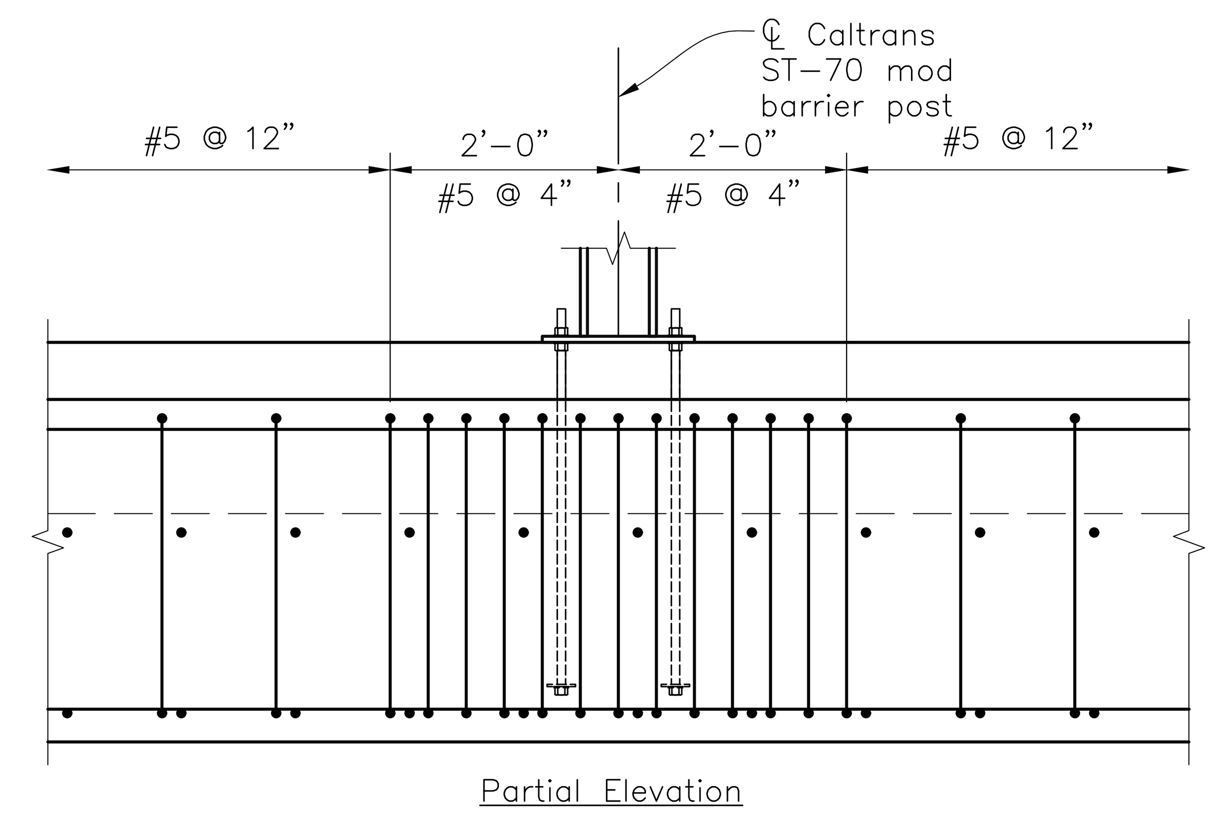
SECTION A / S6

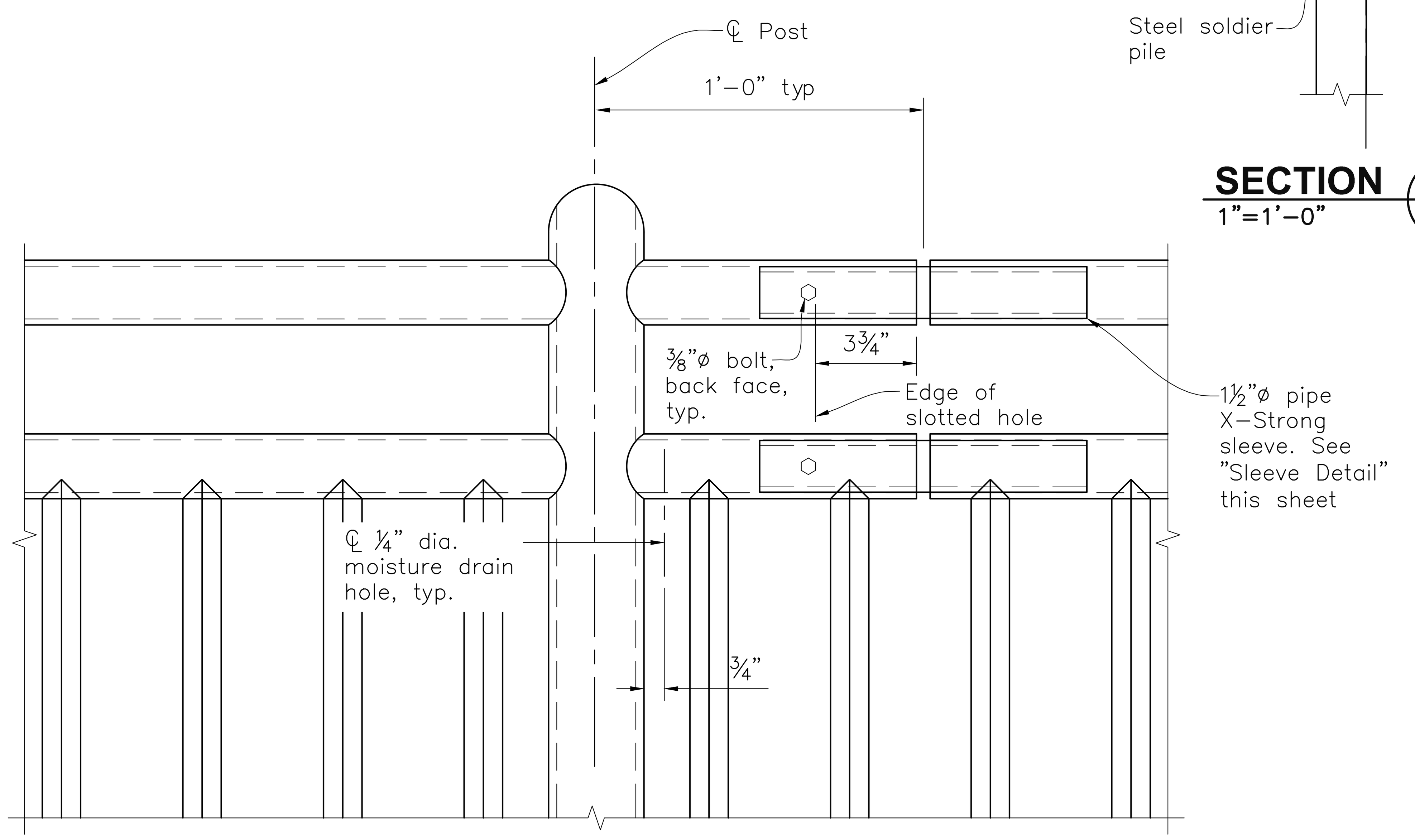
1"=1'–0"



SECTION B / S6

1"=1'–0"

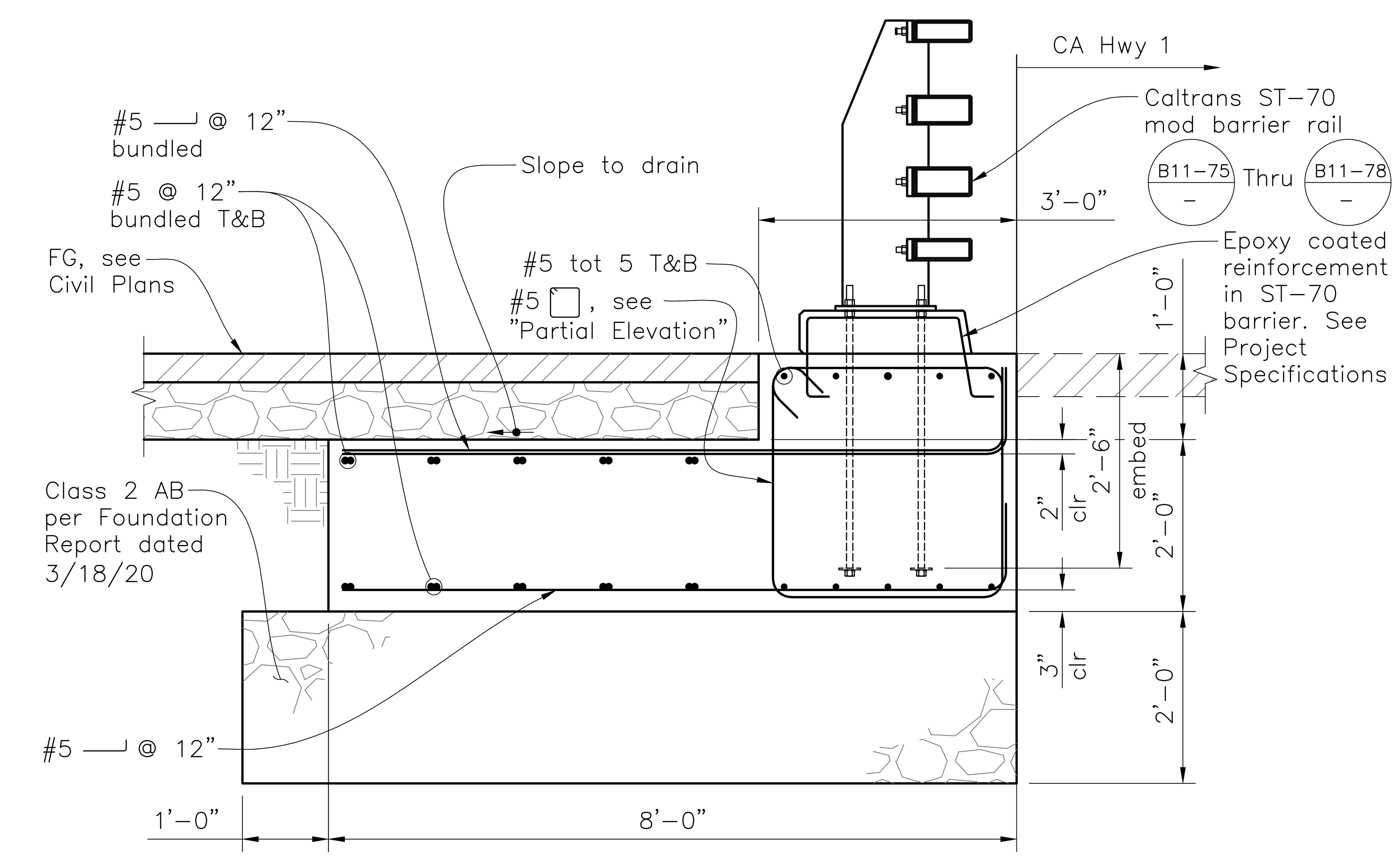




EXPANSION JOINT DETAIL

3" = 1'–0"

Notes:
1. Provide expansion joint every 48 feet.
2. Bottom rail expansion joint not shown, but similar.



VEHICULAR BARRIER FOUNDATION DETAIL

2 / S6

3/4"=1'–0"

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MIDCOAST MULTI–MODAL TRAIL

RAILING DETAILS

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