

INDEX OF SHEETS

SHEET NO.	SHEET NAME	TITLE
1	i	TITLE SHEET
2	ii	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
3	iii	SHEET INDEX MAP
4	SC-1	SURVEY CONTROL AND ALIGNMENT LISTING
5	P-1	LAYOUT STA 10+00 - 14+00
6	P-2	LAYOUT STA 14+00 - 18+00
7	P-3	LAYOUT STA 18+00 - 23+00
8	D-1	CONSTRUCTION DETAILS
9	EC-1	TEMPORARY EROSION CONTROL PLAN
10	EC-2	TEMPORARY EROSION CONTROL DETAILS
11	R-1	REVEGETATION PLAN
12	PD-1	SIGNING AND PAVEMENT DELINEATION
13	PD-2	SIGNING AND PAVEMENT DELINEATION
14	PD-3	SIGNING AND PAVEMENT DELINEATION
15	S-1	GENERAL PLAN
16	S-2	INDEX TO PLANS
17	S-3	FOUNDATION PLAN
18	S-4	ABUTMENT LAYOUT
19	S-5	ABUTMENT DETAILS
20	S-6	BOARDWALK LAYOUT PLAN
21	S-7	BOARDWALK FOUNDATION PLAN
22	S-8	BOARDWALK FOUNDATION PLAN
23	S-9	BOARDWALK TYPICAL DETAILS
24	S-10	BOARDWALK RAILING
25	S-11	ROCK SLOPE PROTECTION
26	S-12	LOG OF TEST BORINGS
27	S-13	LOG OF TEST BORINGS
28	S-14	LOG OF TEST BORINGS
29	T-1	TRAFFIC CONTROL PLAN

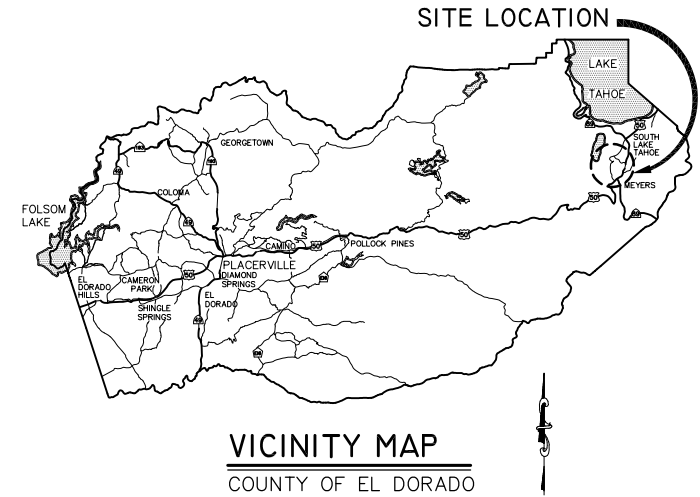
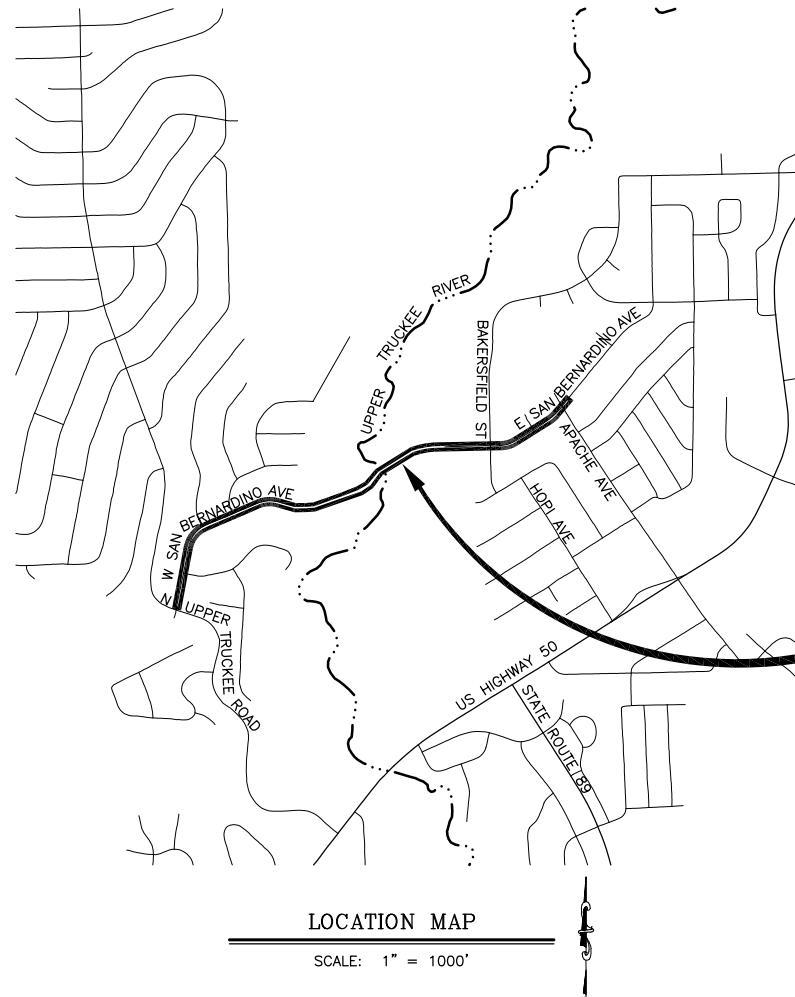
**COUNTY OF EL DORADO, CA
DEPARTMENT OF TRANSPORTATION**

PROJECT PLANS FOR THE CONSTRUCTION OF THE 2022

**SAN BERNARDINO CLASS 1
BIKE TRAIL PROJECT**

IN THE COUNTY OF EL DORADO, DISTRICT 5,
PORTION OF SEC 29, PORTION OF EAST 1/4 SEC 30, PORTION OF
SOUTH 1/4 SEC 20, T12N, R18E, MDM

To be supplemented with 2015 Standard Plans and Specifications of the
California Department of Transportation, unless otherwise noted.



**SAN BERNARDINO CLASS 1
BIKE TRAIL PROJECT**

FUNDING AGENCY

SURFACE TRANSPORTATION BLOCK GRANT
TAHOE REGIONAL PLANNING AGENCY
CORONAVIRUS RESPONSE AND
RELIEF SUPPLEMENTAL ACT OF 2021 PROGRAM
STATE TRANSPORTATION IMPROVEMENT PROGRAM

FEDERAL AID PROJECT
STPL 5925(162)

[Signature]
MARCH 04, 2022
SUBMITTED BY: DONALDO S. PALAROAN P.E. DATE
SENIOR CIVIL ENGINEER
STATE OF CALIFORNIA NO. C66083



CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Law (Business and Professions Code section 7000 et seq.) and shall possess a CLASS A LICENSE or equivalent combination of Classes required by the categories and type of Work included in the Contract Documents and Plans, at the time the Contract is awarded, and shall maintain a valid license through completion and acceptance of the Work including guarantee and warranty period. If the Contractor possesses a Class A license instead of the equivalent combination of Classes required by the categories and type of work included in the Contract Documents and Plans, then the Contractor or a subcontractor must also possess a CLASS C27 "Landscaping Contractor" license. Failure of the successful Bidder to obtain proper and adequate licensing for an award of the Contract shall constitute a failure to execute the Contract, and shall result in forfeiture of the Bidders security.

REVISIONS		
MARK	DATE	BY



BOARD OF SUPERVISORS
I JOHN HIDAHL
II GEORGE TURNBOO
III WENDY THOMAS
IV LORI PARLIN
V SUE NOVASEL

**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**
(530) 573-7900 (530) 621-5900
924 B EMERALD BAY ROAD 2850 FAIRLANE CT
SOUTH LAKE TAHOE, CA PLACERVILLE, CA
96150 95667

ADOPTED AND APPROVED BY:
LORI PARLIN
CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS
DATE: _____
APPROVED BY:
DAVE L. MARTINEZ, DIRECTOR
DEPARTMENT OF TRANSPORTATION
DATE: _____
JOHN H. KAHLING, P.E. NO. C52426
DEPUTY DIRECTOR, ENGINEERING
DATE: _____

CONTRACT NO. 5971, CIP NO. 95117
**SAN BERNARDINO CLASS 1
BIKE TRAIL PROJECT**
TITLE SHEET
SHEET 1 OF 29

GENERAL NOTES

- ALL IMPROVEMENTS WILL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF THE COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION (DOT). IMPROVEMENT CONSTRUCTION MUST COMPLY WITH THESE PLANS AND THE 2015 CALTRANS STANDARD PLANS, UNLESS NOTED OTHERWISE. ALL REFERENCES TO THE "STANDARD SPECIFICATIONS" MEAN THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) 2015 STANDARD SPECIFICATIONS. CONSTRUCTION NOT SPECIFIED ON THESE PLANS OR IN SPECIFIC COUNTY OF EL DORADO (COUNTY) ORDINANCES MUST CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. YOU ARE OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL PROVISIONS SUPERSEDE THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
- CONSTRUCTION HOURS WILL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM DOT.
- THE LOCATIONS AND EXTENT OF UNDERGROUND UTILITIES IN THE WORK AREA AS SHOWN ARE APPROXIMATE AND ARE NOT NECESSARILY COMPLETE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE UTILITIES BASED UPON AVAILABLE RECORDS. YOU MUST DETERMINE THE TYPE, LOCATION, SIZE, AND/OR DEPTH OF THE UTILITIES WITHIN THE WORK AREA BEFORE STARTING WORK. YOU OR ANY SUBCONTRACTOR FOR THIS CONTRACT ARE RESPONSIBLE FOR DAMAGES DUE TO THE FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES. YOU MUST CONTACT UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST 48 HOURS BEFORE ANY CONSTRUCTION. YOU ASSUME COMPLETE RESPONSIBILITY FOR DAMAGED UTILITIES.
- UNLESS SHOWN OTHERWISE, YOU ARE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS, INCLUDING CONSTRUCTION STAKES DURING CONSTRUCTION AND YOU ARE RESPONSIBLE FOR THE COST TO REPLACE ANY SUCH SURVEY MONUMENTS, MARKERS, OR STAKES.
- YOU WILL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE JOB SITE AND FOR PUBLIC SAFETY UNDER THESE PLANS, THE STANDARD SPECIFICATIONS, AND CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- YOU AGREE TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREE THAT THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS UNDER THE CONTRACT AND STANDARD SPECIFICATIONS.
- THERE WILL BE NO GRADING OR LAND DISTURBANCE BETWEEN OCTOBER 15 AND MAY 1 UNLESS APPROVALS ARE OBTAINED FROM THE TAHOE REGIONAL PLANNING AGENCY (TRPA), AS PROVIDED IN THE LIMITED EXEMPTION DESCRIBED IN CHAPTER 64, SUBSECTION 64.2.B. OF THE TRPA CODE OF ORDINANCES. APPROVALS FOR GRADING BETWEEN OCTOBER 15 AND MAY 1 MUST ALSO BE OBTAINED FROM THE LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD. IF REQUIRED, DOT WILL OBTAIN THESE APPROVALS.
- YOU WILL MAINTAIN A SET OF PLANS ON THE JOB SITE SHOWING "AS-CONSTRUCTED" CHANGES MADE TO DATE. UPON COMPLETION OF THE WORK, YOU WILL GIVE TO THE COUNTY A SET OF PLANS, MARKED UP TO THE SATISFACTION OF DOT, REFLECTING THE AS-CONSTRUCTED MODIFICATIONS.
- ALL CONTROL STATIONING AND DATA DIMENSIONING REFERENCE THE CENTERLINE OF THE FACILITY SHOWN, UNLESS NOTED OTHERWISE.
- YOU WILL NOT CLOSE OFF ANY UTILITY LINES OR OPEN VALVES OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF WATER OR SEWER SYSTEMS WITHOUT APPROVAL FROM THE SOUTH TAHOE PUBLIC UTILITY DISTRICT (STPUD). APPROVAL MUST BE REQUESTED AT LEAST 48 HOURS BEFORE INTERRUPTION OF THE UTILITY SERVICE IS REQUIRED. ANY INTERRUPTION TO ACTIVE WATER OR SEWER SERVICES, INCLUDING FIRE HYDRANTS, WHETHER INTENTIONAL OR NOT, MUST BE KEPT TO A MINIMUM TIME PERIOD. IF SERVICE TO BUILDINGS IS TO BE OFF FOR MORE THAN FOUR HOURS, YOU MUST ADVISE STPUD.
- YOU ARE REQUIRED TO IMPLEMENT DUST CONTROL MEASURES TO ENSURE THAT DUST RESULTING FROM YOUR ACTIVITIES IS CONTROLLED AND COMPLIES WITH THE PROVISIONS OF SECTION 7, "LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC," AND SECTION 14, "ENVIRONMENTAL STEWARDSHIP," OF THE STANDARD SPECIFICATIONS, COUNTY, AND LOCAL ORDINANCES.
- YOU ARE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE TEMPORARY EROSION CONTROL MEASURES MUST COMPLY WITH THE TRPA "HANDBOOK OF BEST MANAGEMENT PRACTICES" AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). DOT WILL CONTACT TRPA BEFORE THE START OF THE WORK FOR A PRE-GRADE INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL FACILITIES. YOU ARE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE WORK.
- CONSTRUCTION LIMITS SHOWN DELINEATE THE BOUNDARIES FOR YOUR ACTIVITIES BEYOND THE COUNTY ROAD RIGHT-OF-WAY. TEMPORARY FENCE (TYPE ESA) MUST BE ERCTED ALONG THESE BOUNDARIES BEFORE WORK STARTS. VEGETATION WITHIN THESE LIMITS MUST BE PROTECTED TO THE EXTENT FEASIBLE. ALL TREES MUST BE PROTECTED UNLESS SHOWN TO BE REMOVED.
- UNLESS NOTED OTHERWISE, ALL REVEGETATION IS TO BE COMPLETED BY OTHERS.
- YOU WILL ONLY USE THE DESIGNATED SITES SHOWN FOR STORAGE OF EQUIPMENT AND MATERIALS. YOU ARE RESPONSIBLE FOR THE SECURITY OF EQUIPMENT AND MATERIALS.
- IT IS YOUR AND YOUR SUBCONTRACTOR(S) RESPONSIBILITY TO EXAMINE THE JOB SITE BEFORE THE OPENING OF BID PROPOSALS. YOU MUST BECOME FAMILIAR WITH THE NATURE AND LOCATION OF THE WORK AND THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE AFFECTING THE AVAILABILITY OF TRANSPORTATION, THE DISPOSAL, HANDLING, AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRICITY, ROADS, THE UNCERTAINTIES OF WEATHER, THE CONDITIONS OF THE GROUND, SURFACE AND SUBSURFACE MATERIALS, THE EQUIPMENT AND FACILITIES NEEDED FOR AND DURING THE PERFORMANCE OF THE WORK. FAILURE BY YOU OR YOUR SUBCONTRACTOR(S) TO ACQUAINT YOURSELVES WITH THE INFORMATION AVAILABLE WILL NOT RELIEVE YOU OR YOUR SUBCONTRACTOR(S) FROM RESPONSIBILITY FOR PROPERLY ESTIMATING THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK.
- ELEVATIONS FOR PIPE INVERTS, FLOWLINES, TOPS OF GRATES, RIMS, ETC., ARE BASED ON THE TOPOGRAPHIC INFORMATION SHOWN. YOU WILL VERIFY ALL NECESSARY SURFACE ELEVATIONS IN THE FIELD AND NOTIFY THE TD OF ANY DISCREPANCIES WHICH MIGHT AFFECT THE OPERATION OF THE NEW FACILITIES BEFORE BREAKING GROUND FOR THE INSTALLATION. DOT MUST BE CONTACTED IF ELEVATIONS ARE INCORRECT SO PROPER ADJUSTMENTS CAN BE MADE BEFORE THE INSTALLATION OF THE FACILITIES.
- EXCEPT FOR THOSE OBTAINED BY DOT, YOU MUST OBTAIN, AT YOUR EXPENSE, ALL PERMITS, LICENSES, INSURANCE POLICIES, ETC., NECESSARY TO COMPLY WITH STATE AND LOCAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK.
- YOU ARE RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS FOR SUBMITTALS REQUIRED FOR COUNTY REVIEW AND ACCEPTANCE.
- THE COUNTY WILL PROVIDE CONSTRUCTION STAKING IN COMPLIANCE WITH SECTION 5-1.26 OF THE STANDARD SPECIFICATIONS.
- THE PLANS SHOW SLOPE LENGTHS FOR PIPE ROUNDED TO THE NEAREST FOOT. ALL PIPE LENGTHS AND INVERT ELEVATIONS SHOWN ON THE PLANS ARE TO THE CENTERLINE OF THE STRUCTURES TO WHICH THE PIPES ARE ATTACHED. SEE THE STANDARD SPECIFICATIONS FOR THE MAXIMUM ALLOWABLE DEFLECTION ANGLE AT EACH PIPE JOINT.
- YOU ARE RESPONSIBLE TO MAINTAIN THE GRADING LIMITS AS SHOWN ON THE PLANS, DETAILS, CROSS SECTIONS, AND AS DIRECTED BY THE ENGINEER.

ABBREVIATIONS

NOTE: LOWER CASE TEXT WITHIN PLAN SET INDICATES EXISTING

△	DELTA = DEFLECTION ANGLE	MAT'L	MATERIAL
A	ARCH OR ASPEN	MISC	MISCELLANEOUS
AB	AGGREGATE BASE	MOC	MID POINT ON CURVE
ABAND	ABANDONED	MOD	MODIFIED
ABC	ARTICULATED BLOCK CHANNEL	N	NORTH
AC	ASPHALT CONCRETE	NIC	NOT IN CONTRACT
AP	ANGLE POINT	NGVD	NATIONAL GEODETIC VERTICAL DATUM
APN	ASSESSOR'S PARCEL NUMBER	NTS	NOT TO SCALE
BC	BEGIN CURVE	OAE	OR APPROVED EQUAL
BCR	BEGIN CURB RETURN	OC	ON CENTER
BGN	BEGIN	OD	OUTSIDE DIAMETER
BLC	BLANKET-LINED CHANNEL	OG	ORIGINAL GROUND
BV	BAY VIEW	OH	OVERHEAD
BVCE	BEGIN VERTICAL CURVE ELEVATION	OVEREX OR O/X	OVEREXCAVATION
BVCS	BEGIN VERTICAL CURVE STATION	P	PINE
C	CEDAR	PC	POINT OF BEGINNING OF CURVE
CALCS	CALCULATIONS	PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
CATV	CABLE TELEVISION	PERF	PERFORATED
CC	CENTER TO CENTER	PL	PROPERTY LINE
CF	CUBIC FEET OR CURB FACE	PCVCE	POINT OF COMPOUND VERTICAL CURVE ELEVATION
CHD	CHORD DIRECTION	PCVCS	POINT OF COMPOUND VERTICAL CURVE STATION
CIR	CIRCLE	POR	PORTION
CL	CENTERLINE	PRVCE	POINT OF REVERSE VERTICAL CURVE ELEVATION
CLR	CLASS OR CENTERLINE	PRVCS	POINT OF REVERSE VERTICAL CURVE STATION
CO	CURB OPENING OR CLEANOUT	PP	POWER/UTILITY POLE
CO.	COUNTY	PRC	POINT OF REVERSE CURVE
CONC	CONCRETE	PROP	PROPOSED
CONST	CONSTRUCT	PT	POINT OR POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	PUE	PUBLIC UTILITY EASEMENT
CSP	CORRUGATED STEEL PIPE	PVC	POLYVINYL CHLORIDE
CT	CALTRANS OR COURT	PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
CTC	CALIFORNIA TAHOE CONSERVANCY	PVIS	POINT OF VERTICAL INTERSECTION STATION
CY	CUBIC YARD	PVMT	PAVEMENT
C&G	CURB AND GUTTER	R	RADIUS
D	DEPTH	R&R	REMOVE & REPLACE
DBL	DOUBLE	RC	RELATIVE COMPACTION
DET	DETAIL	RCP	REINFORCED CONCRETE PIPE
DI	DRAINAGE INLET OR DUCTILE IRON	RD	ROAD
DIA OR Ø	DIAMETER	REF	REFERENCE
DISS	DISSIPATOR	REQ'D	REQUIRED
DR	DRIVE	RLC	ROCK-LINED CHANNEL
D/W	DRIVEWAY	ROW	RIGHT-OF-WAY
E	EAST	RSP	ROCK SLOPE PROTECTION
EA	EACH	RT	RIGHT
EC	END OF CURVE	RW	RETAINING WALL
ECR	END OF CURB RETURN	S	SOUTH OR SANITARY SEWER
ELEV	ELEVATION	SCO	SEWER CLEAN OUT
ELEC	ELECTRIC	SD	STORM DRAIN
ENGR	ENGINEER	SDMH	STORM DRAIN MANHOLE
EP	EDGE OF PAVEMENT	SED FB	SEDIMENT FOREBAY
ESA	ENVIRONMENTALLY SENSITIVE AREA	SEZ	STREAM ENVIRONMENT ZONE
ESMT	EASEMENT	SF	SQUARE FEET
EVCE	END VERTICAL CURVE ELEVATION	SHT	SHEET
EVCS	END VERTICAL CURVE STATION	SL	SLOPE LENGTH
EX OR EXIST	EXISTING	SMH	SEWER MANHOLE
F	FIR	ST	SEDIMENT TRAP OR STREET STATION
FES	FLARED END SECTION	STA	STANDARD
FG	FINISHED GRADE	STD	STEEL
FH	FIRE HYDRANT	STL	STANDARD
FL	FLOWLINE	STPUD	SOUTH TAHOE PUBLIC UTILITY DISTRICT
FS	FINISH SURFACE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
G	GAS	T	TELEPHONE
GA	GAUGE	TBC	TOP BACK OF CURB
GB	GRADE BREAK	TBD	TOP BACK OF DIKE
GLS	GRASS-LINED SWALE	TD	TOP OF DIKE
GW	GROUND WATER	TBR	TO BE REMOVED
H	HORIZONTAL	TG	TOP OF GRATE
HDPE	HIGH DENSITY POLYETHYLENE	TTL	TOTAL
HP	HIGH POINT	TRANS	TRANSITION
HWL	HIGH WATER LINE	TRM	TURF REINFORCEMENT MAT
ID	INSIDE DIAMETER	TRPA	TAHOE REGIONAL PLANNING AGENCY
IE	INVERT ELEVATION	TYP	TYPICAL
INCR	INCREASE	UG	UNDERGROUND
INST	INSTALL	UKN	UNKNOWN
INTRXN	INTERSECTION	USFS	UNITED STATES FOREST SERVICE
L	LENGTH	V	VERTICAL
LC	LENGTH OF CHORD	W	WEST OR WATER
LF	LINEAR FEET	W/	WITH
LP	LOW POINT	W/O	WITHOUT
LT	LEFT	WC	WILLOW CLUSTER
LTD	LAKE TAHOE DATUM	WV	WATER VALVE

LEGEND

EXISTING	PROPOSED
(SCREENED AND/OR DASHED) EXISTING (AS NOTED)	--- CENTERLINE
--- RIGHT-OF-WAY OR PROPERTY LINE	----- SAWCUT (AS NOTED)
--- DRAINAGE OR SLOPE EASEMENT	AC PAVEMENT
--- UTILITY (PUE) EASEMENT	AC REMOVAL
--- LAND CAPABILITY BOUNDARY	XXXX.XX ELEVATION
--- 10' SEZ SETBACK	ELEVATION, EG CL, PROPOSED (PROFILE ONLY)
OR	XXXX.XX ELEVATION
● ROCK	○ CSP INLET/RISER OR STORM DRAIN MANHOLE, DRAINAGE INLET
● FOUND MONUMENT	▽ CUT OR FILL SLOPE
△ SURVEY CONTROL POINT	⊗ DETAIL REF NUMBER SHEET NUMBER
XXXX.X ELEVATION	⊗ ROCK
⊙ SEWER MANHOLE	SD PIPE (MATERIAL AS NOTED)
⊙ SCO SEWER CLEAN OUT	-RSF-ESA- REINFORCED SILT FENCE AND TYPE ESA FENCE
⊙ DRAINAGE INLET	▷ FLARED END SECTION
⊙ gm GAS METER	#:# SLOPE RATIO, H:V
⊙ wv WATER VALVE	ARTICULATED BLOCK CHANNEL
⊙ WM WATER METER	BLANKET-LINED CHANNEL
⊙ MONITORING WELL	⊗ TREE REMOVAL
--- WATER LINE	--- FLOWLINE
--- SEWER LINE	--- CUT
--- GAS LINE	--- FILL
--- STORM DRAIN	
--- OVERHEAD UTILITIES	
--- POWER/UTILITY POLE	
--- UTILITY POLE & GUY ANCHOR	
--- FIRE HYDRANT	
--- FENCE	
--- FLOWLINE	
⊙ 28"p TREE, DIAMETER AND TYPE	
○ STUMP	
⊙ wc WILLOW CLUSTER	
⊙ LANDSCAPE LIGHTING	

UTILITIES

CABLE TELEVISION	CHARTER COMMUNICATIONS, (775) 221-4147
NATURAL GAS	SOUTHWEST GAS, (530) 543-3225
ELECTRIC	LIBERTY UTILITIES, (530) 541-6400
SEWER & WATER	SOUTH TAHOE PUD, (530) 544-6474
TELEPHONE	AT&T, (530) 888-2031
STORM DRAIN	CO. OF EL DORADO DOT, (530) 573-3180

Drawing name: \\G:\Data\GIS\Projects\56117\Engineering\MP\PLAN\02_SHEET_1010ES.dwg

ORIGINAL SCALE IS IN INCHES

FOR REDUCED PLANS

REVISION

NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

[Signature]

REGISTERED CIVIL ENGINEER
MARCH 04, 2022
 DATE:

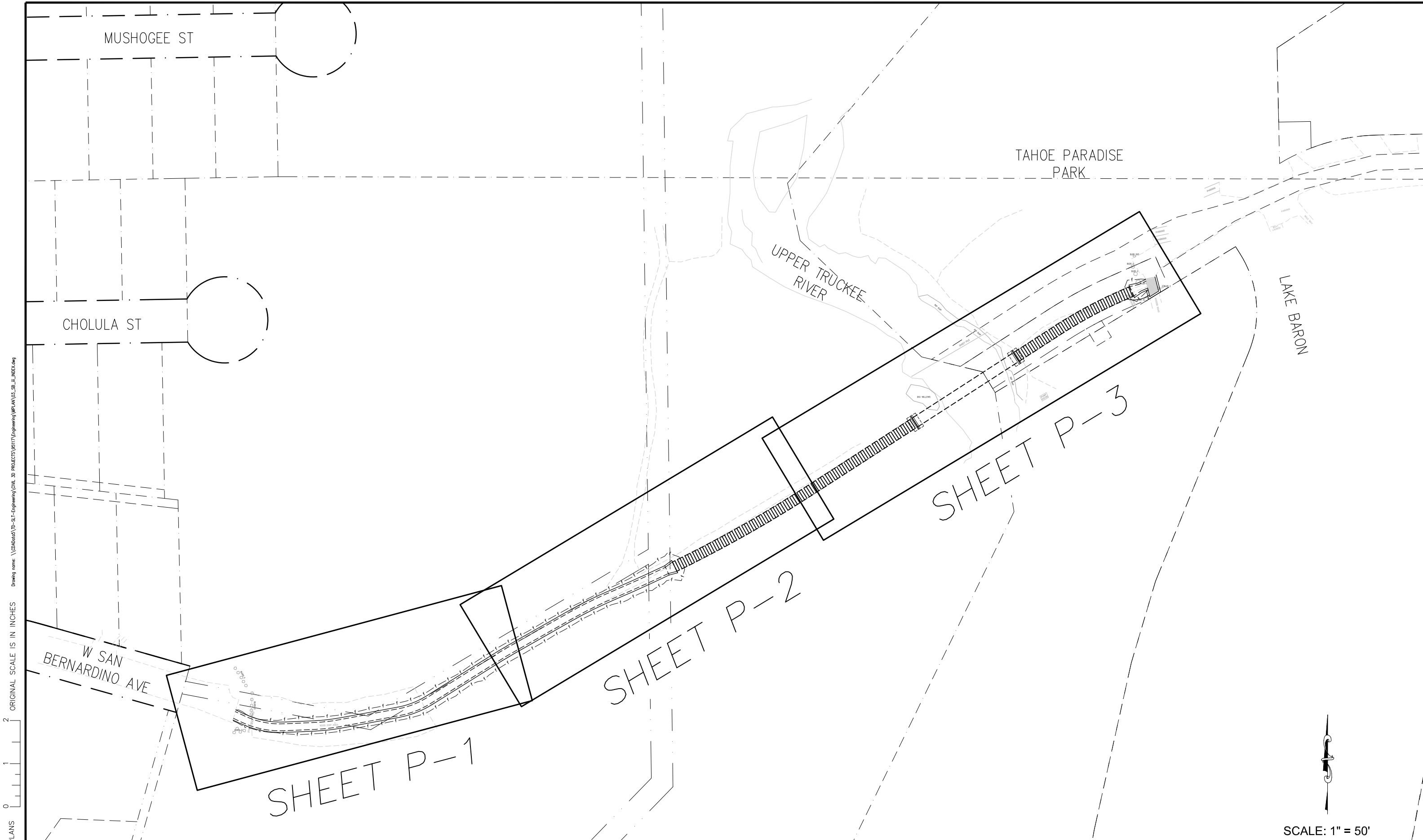
DESIGNED: KIS
 DRAWN: KIS
 CHECKED: DSP
 DATE: 02/2022
 ROAD NUMBER: ---



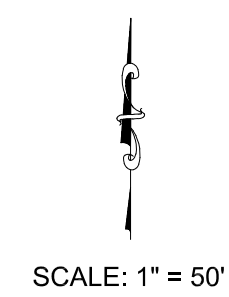
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
 GENERAL NOTES, ABBREVIATIONS, AND LEGEND

SHEET
ii
 2 OF 29
 CONTRACT NO.
5971
 CIP No. **95117**

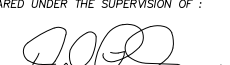


FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
 Drawing name: \\G:\Data\2022\22-0335\22-0335-01\Engineering\MP\AN\03_SHEET_INDEX.dwg



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
MARCH 04, 2022
 DATE:

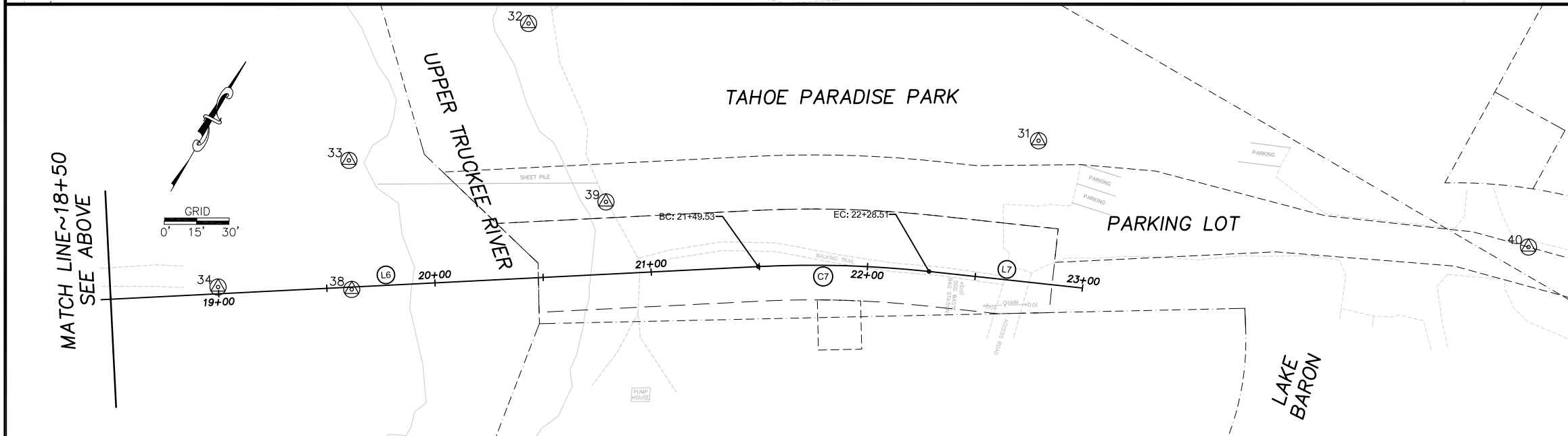
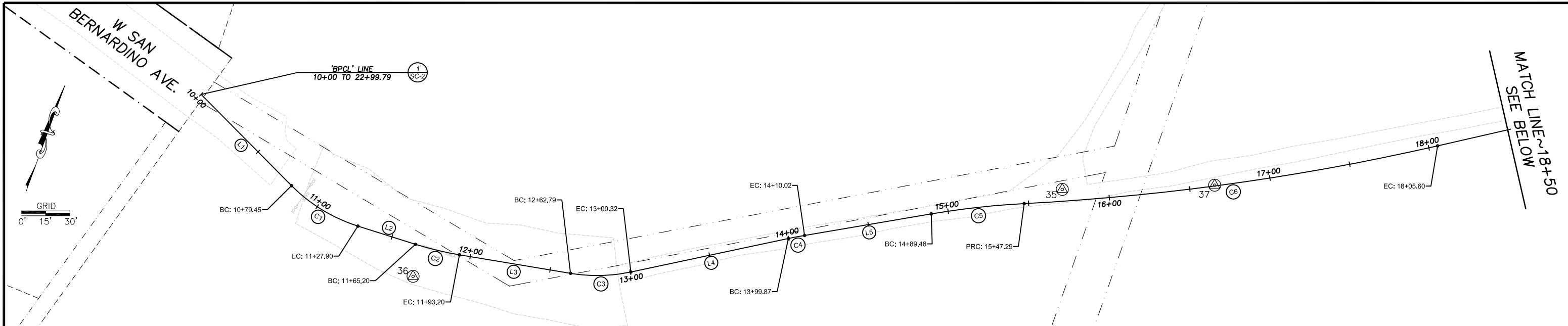
DESIGNED: KIS
 CHECKED: DSP
 ROAD NUMBER: ---
 DRAWN: KIS
 DATE: 02/2022



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
 SHEET INDEX MAP
 CONTRACT NO. 5971
 CIP No. 95117

SHEET iii
 3 OF 29
 CONTRACT NO. 5971
 CIP No. 95117



LEGEND	
LINE LABEL	(L)
CURVE LABEL	(C)
PROJECT CONTROL	XX (triangle)
SUPPLEMENTAL CONTROL	XX (triangle)
RIGHT OF WAY	--- (dashed line)
LOT LINE	--- (dashed line)
PUBLIC UTILITY EASEMENT LINE	--- (dashed line)
STPUD EASEMENT LINE	--- (dashed line)
EDGE OF PAVEMENT	--- (dashed line)
DIRT PARKING/ROAD/TRAIL	--- (dashed line)

HORIZONTAL DATUM
 BASIS OF BEARINGS FOR SURVEY CONTROL IS GRID NORTH, CALIFORNIA COORDINATE SYSTEM (NAD 83) ZONE 2, US SURVEY FT, 1991.35 EPOCH, ESTABLISHED USING CONVENTIONAL MEASUREMENTS TO CONTROL POINTS SHOWN ON THIS SHEET. ALL DISTANCES ARE GRID DISTANCES. DIVIDE BY .999625 TO OBTAIN GROUND DISTANCES.

VERTICAL DATUM
 ELEVATION DATUM IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1929. TBM POINTS ARE CONTROL POINTS SHOWN ON THIS SHEET

CONTROL TABLE				
CONTROL NUMBER	Y	X	ELEVATION	DESCRIPTION
31	2080268.24	7123655.71	6297.36	10" SPIKE
32	2080197.40	7123424.62	6296.05	10" SPIKE
33	2080101.04	7123384.38	6292.76	10" SPIKE
34	2080020.14	7123361.31	6295.28	10" SPIKE
35	2079861.70	7123075.11	6297.70	10" SPIKE
36	2079674.01	7122716.44	6307.35	10" SPIKE
37	2079896.36	7123162.68	6296.61	10" SPIKE
38	2080050.07	7123415.35	6294.04	10" SPIKE
39	2080143.78	7123496.82	6295.45	10" SPIKE
40	2080338.85	7123876.30	6309.66	MAG NAIL

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	COURSE	DELTA	BEGINNING Y	BEGINNING X	ENDING Y	ENDING X
(L1)	10+00	10+79.45	LINE	79.45	---	S64°44'25"E	---	2079734.85	7122554.89	2079700.95	7122626.74
(C1)	10+79.45	11+27.90	CURVE LEFT	48.46	100.00	---	27°45'46"	2079700.95	7122626.74	2079691.48	7122673.78
(L2)	11+27.90	11+65.20	LINE	37.29	---	N87°29'49"E	---	2079691.48	7122673.78	2079693.11	7122711.04
(C2)	11+65.20	11+93.20	CURVE LEFT	28.00	200.00	---	8°01'17"	2079693.11	7122711.04	2079696.29	7122738.84
(L3)	11+93.20	12+62.79	LINE	69.59	---	N79°28'32"E	---	2079696.29	7122738.84	2079709.00	7122807.25
(C3)	12+62.79	13+00.32	CURVE LEFT	37.53	100.00	---	21°30'09"	2079709.00	7122807.25	2079722.54	7122842.02
(L4)	13+00.32	13+99.87	LINE	99.55	---	N57°58'23"E	---	2079722.54	7122842.02	2079775.33	7122926.42
(C4)	13+99.87	14+10.02	CURVE RIGHT	10.16	200.00	---	2°54'34"	2079775.33	7122926.42	2079780.49	7122935.16
(L5)	14+10.02	14+89.46	LINE	79.44	---	N60°21'13"E	---	2079780.49	7122935.16	2079819.79	7123004.20
(C5)	14+89.46	15+47.29	CURVE RIGHT	57.83	500.00	---	6°37'38"	2079819.79	7123004.20	2079845.43	7123056.00
(C6)	15+47.29	18+05.60	CURVE LEFT	258.30	1500.00	---	9°51'59"	2079845.43	7123056.00	2079966.35	7123283.89
(L6)	18+05.60	21+49.53	LINE	343.93	---	N57°06'51"E	---	2079966.35	7123283.89	2080153.10	7123572.71
(C7)	21+49.53	22+28.51	CURVE RIGHT	78.98	500.00	---	9°03'03"	2080153.10	7123572.71	2080190.58	7123642.14
(L7)	22+28.51	22+99.79	LINE	71.28	---	N66°09'54"E	---	2080190.58	7123642.14	2080219.38	7123707.34

'BP' ALIGNMENT
 10+00 TO 22+99.79

ORIGINAL SCALE IS IN INCHES
 2
 1
 0
 FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
MARCH 04, 2022
 DATE:

DESIGNED: KIS
 DRAWN: KIS
 CHECKED: DSP
 DATE: 02/2022
 ROAD NUMBER: ---



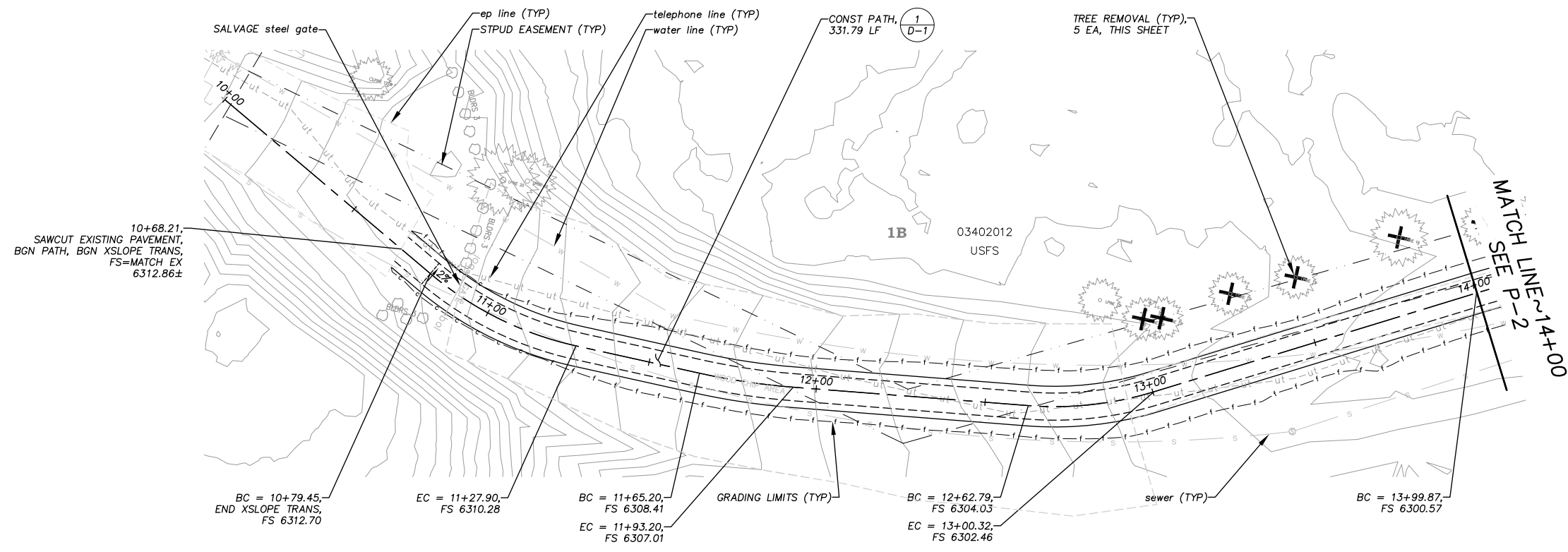
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
SURVEY CONTROL AND ALIGNMENT LISTING

SHEET
SC-1
 4 OF 29
 CONTRACT NO.
5971
 CIP No. **95117**

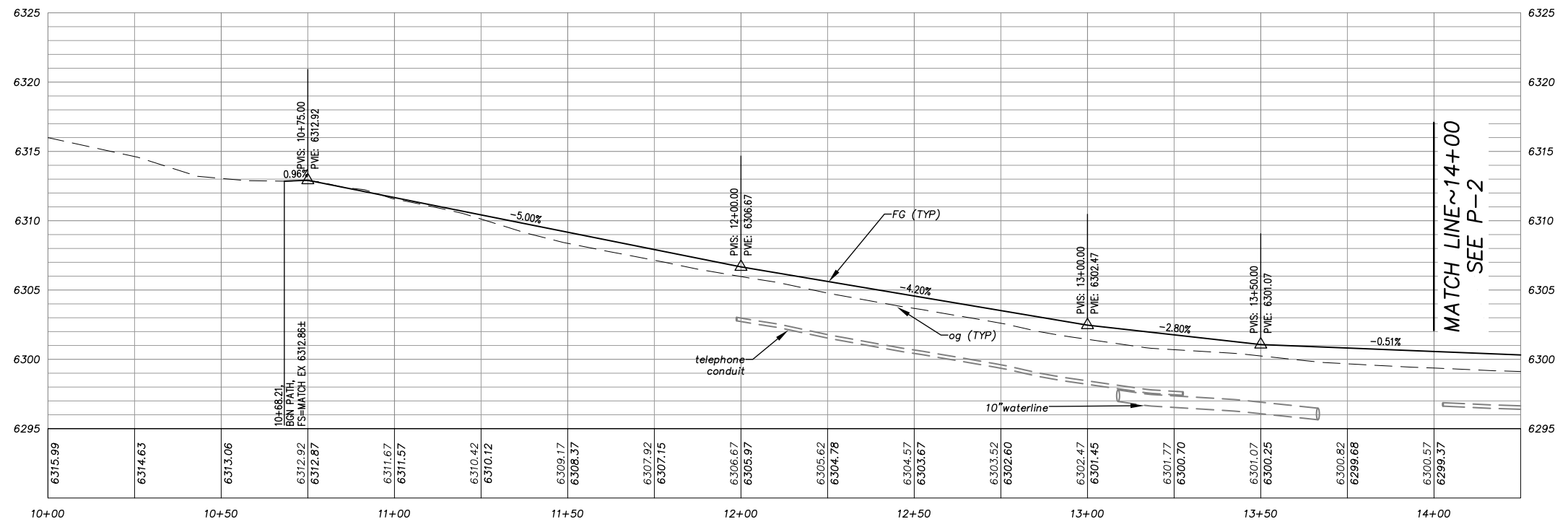
!! WARNING !!
 THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE ONLY APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES.

NOTE:
 THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.



PLAN & PROFILE
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'

10+00 TO 14+00



ORIGINAL SCALE IS IN INCHES
 2
 1
 0
 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 MARCH 04, 2022
 DATE:

DESIGNED: KIS
 DRAWN: KIS
 CHECKED: DSP
 DATE: 02/2022
 ROAD NUMBER: ---



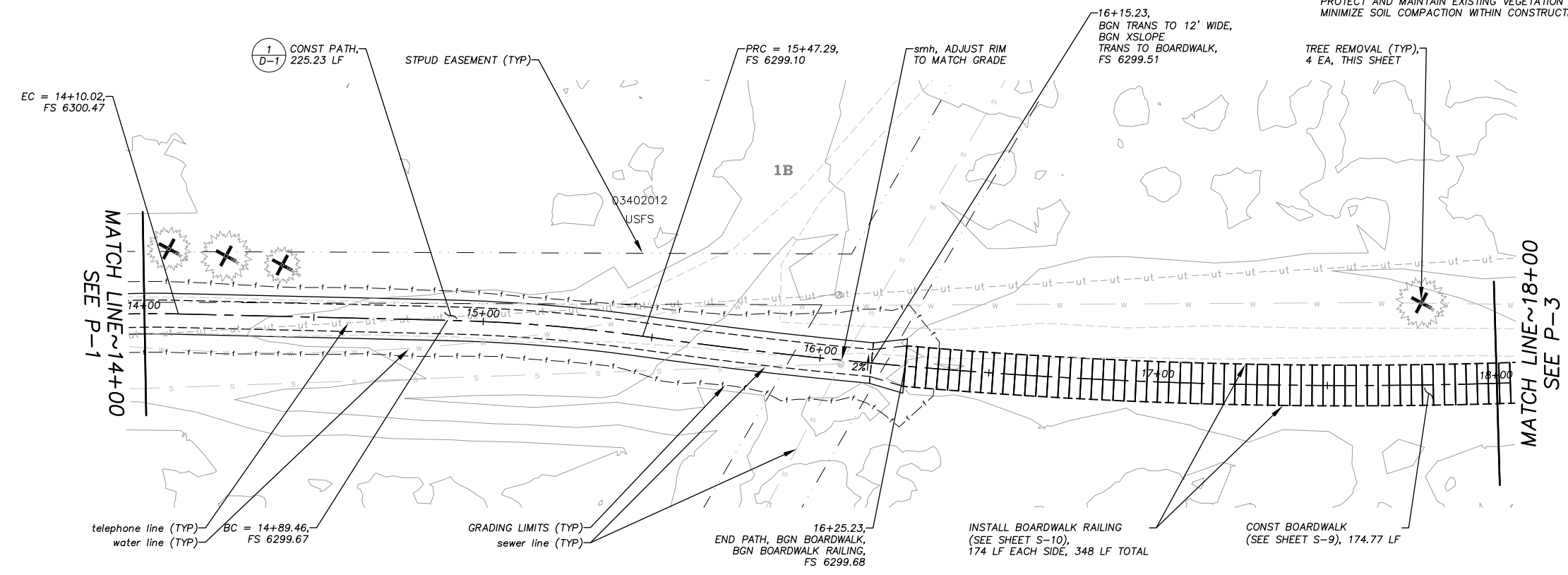
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
 LAYOUT STA 10+00 - 14+00

SHEET
P-1
 5 OF 29
 CONTRACT NO.
5971
 CIP No. **95117**

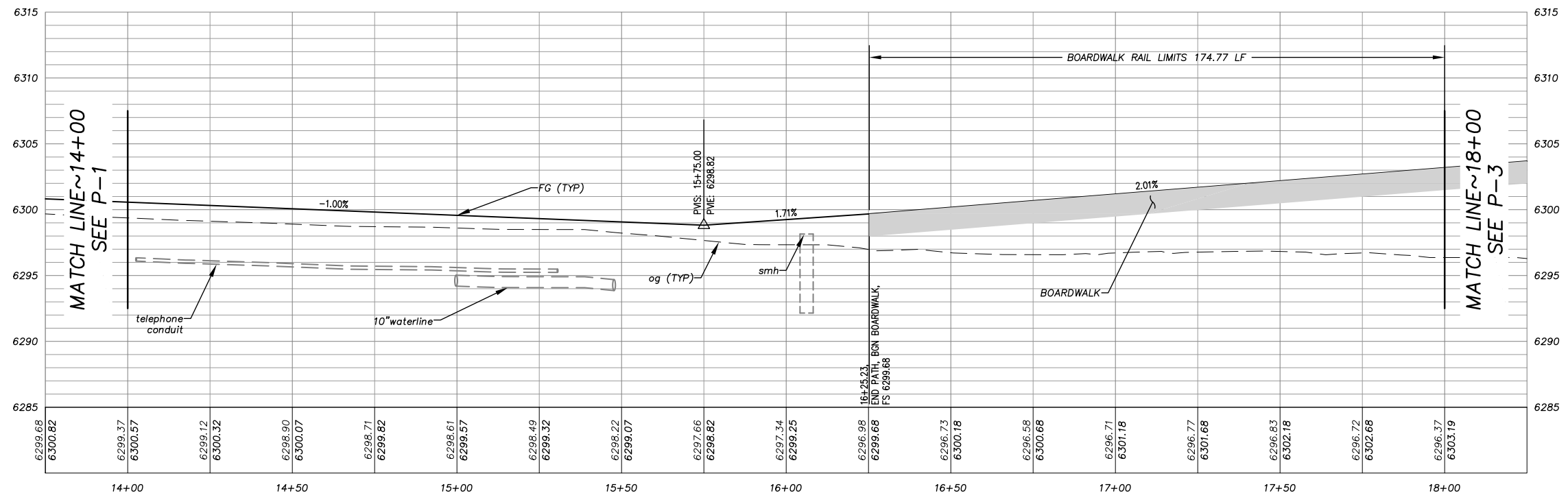
!! WARNING !!
 THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE ONLY APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES.

NOTE:
 THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.



PLAN & PROFILE
 SCALE: HORIZ 1"= 20'
 VERT 1"= 5'

14+00 TO 18+00



ORIGINAL SCALE IS IN INCHES
 2
 1
 0
 FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
MARCH 04, 2022
 DATE:

DESIGNED: KIS
 DRAWN: KIS
 CHECKED: DSP
 DATE: 02/2022
 ROAD NUMBER: ---



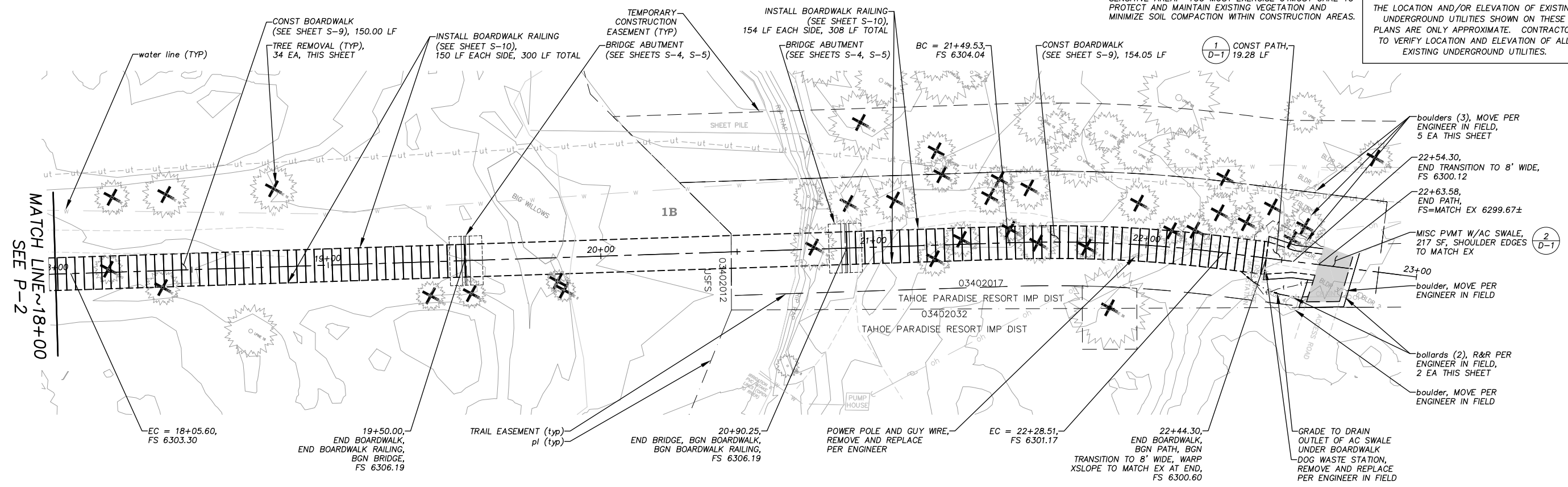
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
 LAYOUT STA 14+00 - 18+00

SHEET
P-2
 6 OF 29
 CONTRACT NO.
5971
 CIP No. **95117**

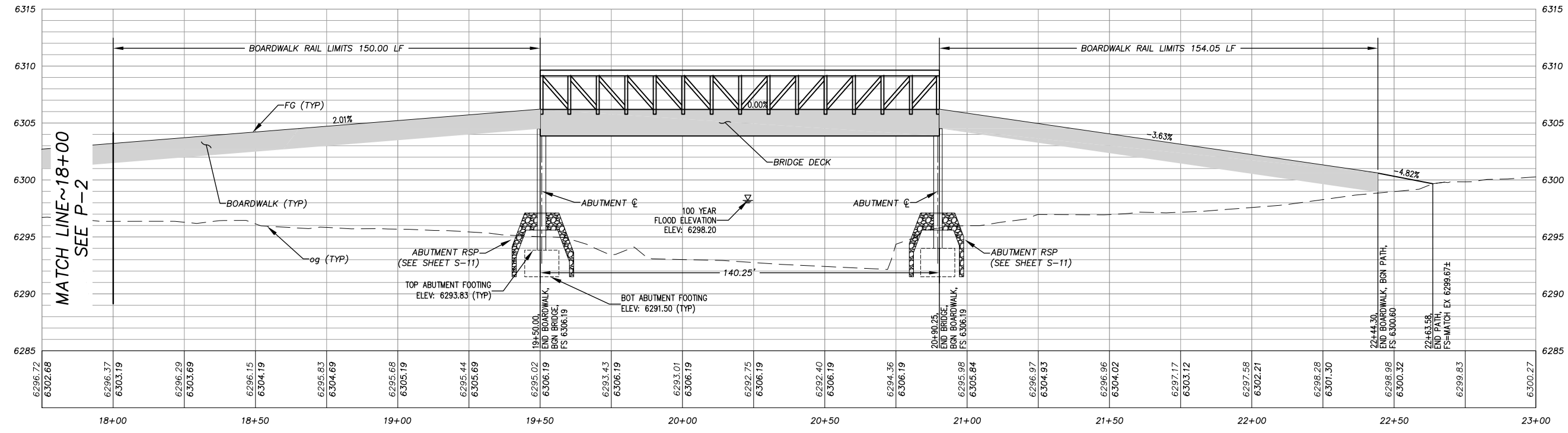
!! WARNING !!
 THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE ONLY APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES.

NOTE:
 THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.



PLAN & PROFILE
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'

18+00 TO 22+70.93



Drawing name: \\G:\Data\2017\17-01-Engineering\001_30_PROJECTS\05117\Engineering\PLAN\SUB\PLAN.dwg
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: MARCH 04, 2022

DESIGNED: KIS
 DRAWN: KIS
 CHECKED: DSP
 DATE: 02/2022
 ROAD NUMBER: ---

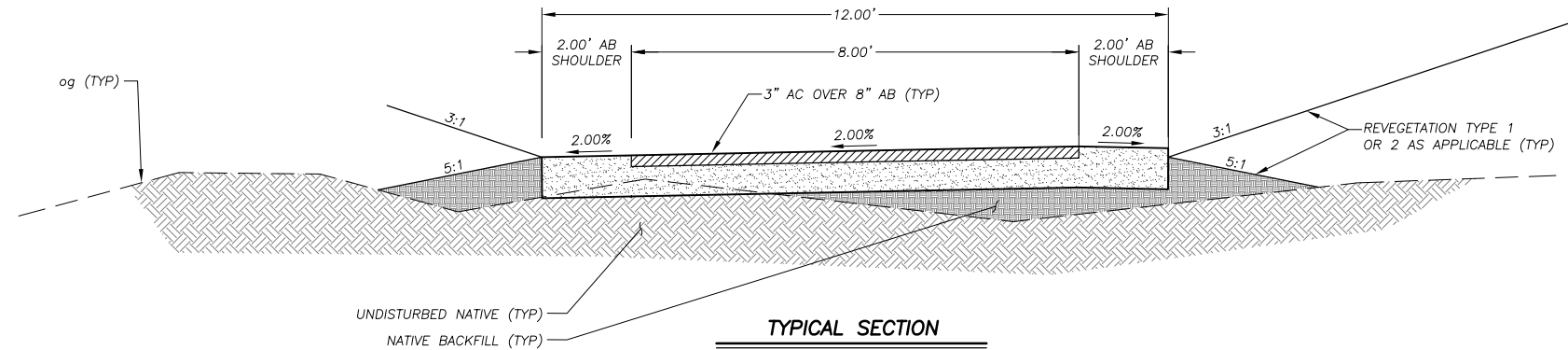


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
 LAYOUT STA 18+00 - 23+00

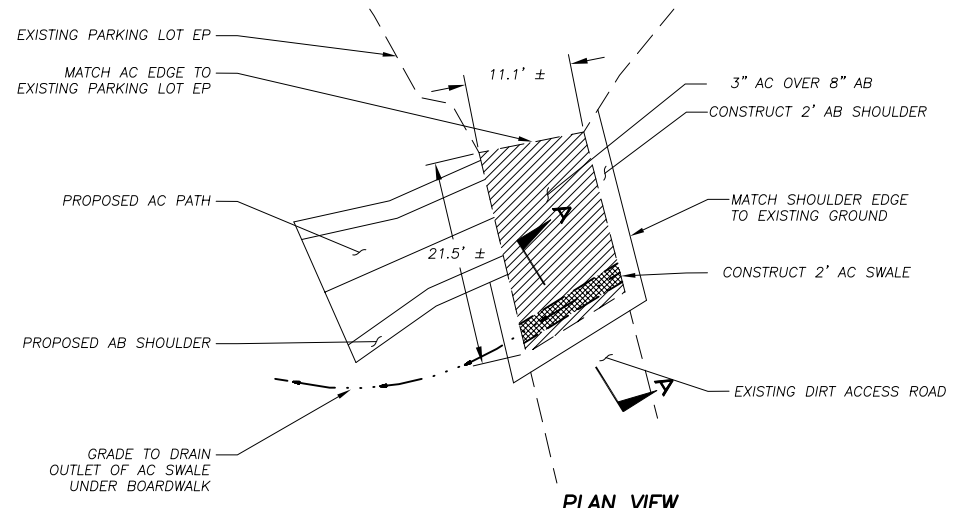
SHEET P-3
 7 OF 29
 CONTRACT NO. 5971
 CIP No. 95117

Drawing name: \\CDB\dot\5\TD-SLT-Engineering\CIVIL 3D PROJECTS\95117\Engineering\PLANS\SB_L1.dwg
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS

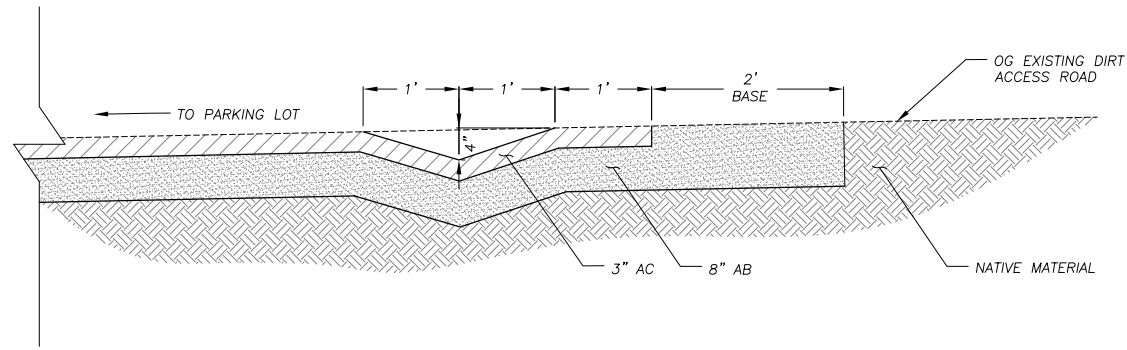


TYPICAL SECTION

PATH
 NTS 1
D-1



PLAN VIEW



SECTION A-A

MISCELLANEOUS PAVING

NTS 2
D-1

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
MARCH 04, 2022
 DATE:

DESIGNED: KIS	DRAWN: KIS
CHECKED: DSP	DATE: 02/2022
ROAD NUMBER: ---	



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

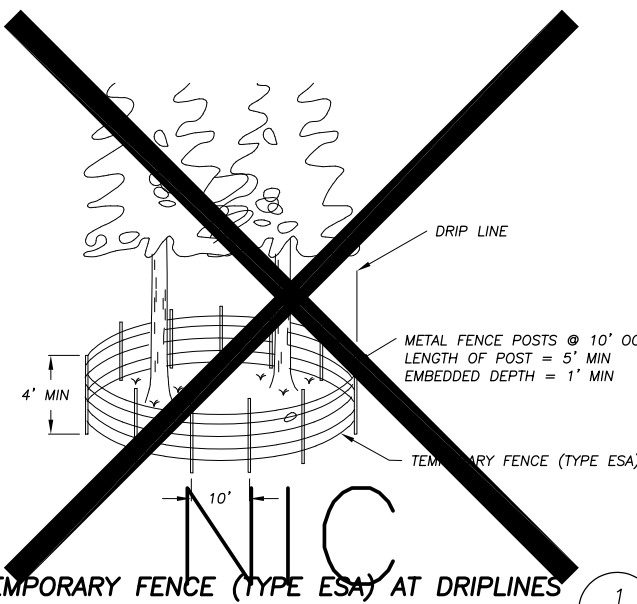
SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
CONSTRUCTION DETAILS

SHEET
D-1
 8 OF 29
 CONTRACT NO.
5971
 CIP No.
95117

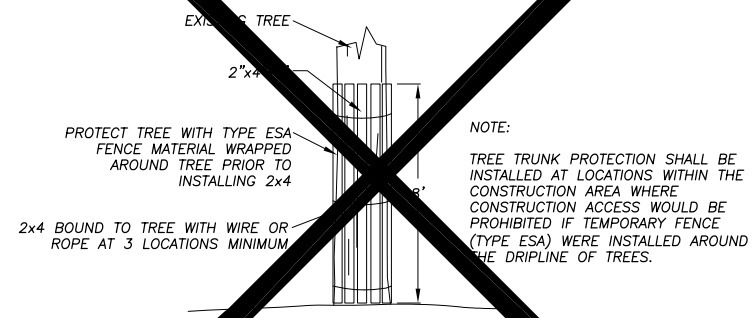
Drawing name: \\C:\Data\517\Engineering\CT\1\3\ PROJECTS\95117\Engineering\WPLANS\SB_EC2.dwg

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

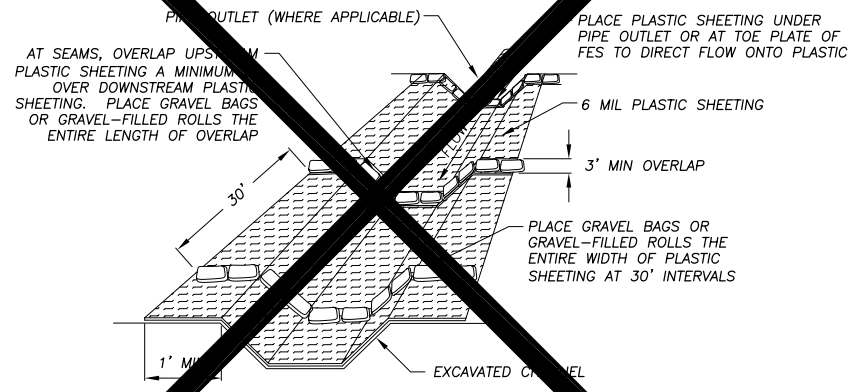
2
1
0



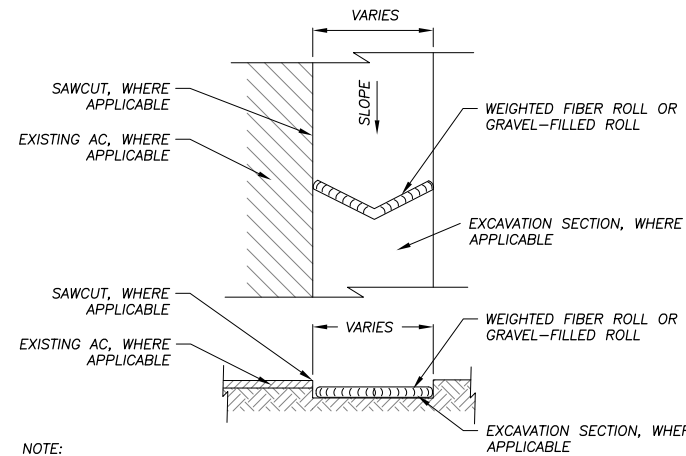
1
TEMPORARY FENCE (TYPE ESA) AT DRIPLINES
NTS
EC-2



2
WOODEN TREE TRUNK PROTECTION
NTS
EC-2

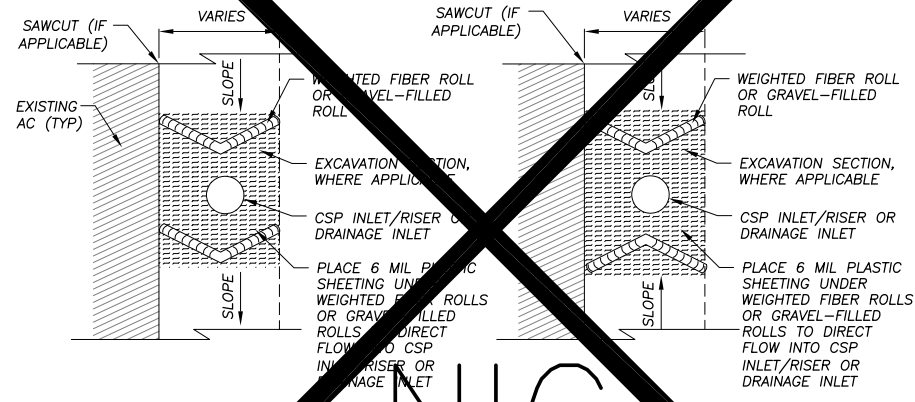


3
PLASTIC SHEETING WITH GRAVEL BAGS OR GRAVEL-FILLED ROLLS
NTS
EC-2



NOTE:
SPACING INTERVALS FOR WEIGHTED FIBER ROLL OR GRAVEL-FILLED ROLL TEMPORARY SEDIMENT CONTROL ON GRADE SHALL BE AT 50' OC FOR SLOPES GREATER THAN 5% AND AT 100' OC FOR SLOPES LESS THAN OR EQUAL TO 5%.

4
WEIGHTED FIBER ROLLS OR GRAVEL-FILLED ROLLS
NTS
EC-2



5
DRAIN INLET PROTECTION
NTS
EC-2

6
NOT USED
NTS
EC-2

- GENERAL NOTES:
1. LOCATIONS AND LF OF TEMPORARY REINFORCED SILT FENCE REQUIRED FOR THE STAGING AREAS ARE NOT SHOWN. YOU ARE TO INCLUDE THESE AREAS IN YOUR TEMPORARY EROSION CONTROL PLAN SUBMITTAL.
 2. LENGTHS OF TEMPORARY REINFORCED SILT FENCE AND TEMPORARY FENCE (TYPE ESA) DOES NOT INCLUDE MINIMUM LIMITS FOR TREE PROTECTION. TREE PROTECTION FENCING IS TO BE AS SHOWN AND/OR AS DETERMINED IN THE FIELD.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
REGISTERED CIVIL ENGINEER
MARCH 04, 2022
DATE:

DESIGNED: KIS
DRAWN: KIS
CHECKED: DSP
DATE: 02/2022
ROAD NUMBER: ---

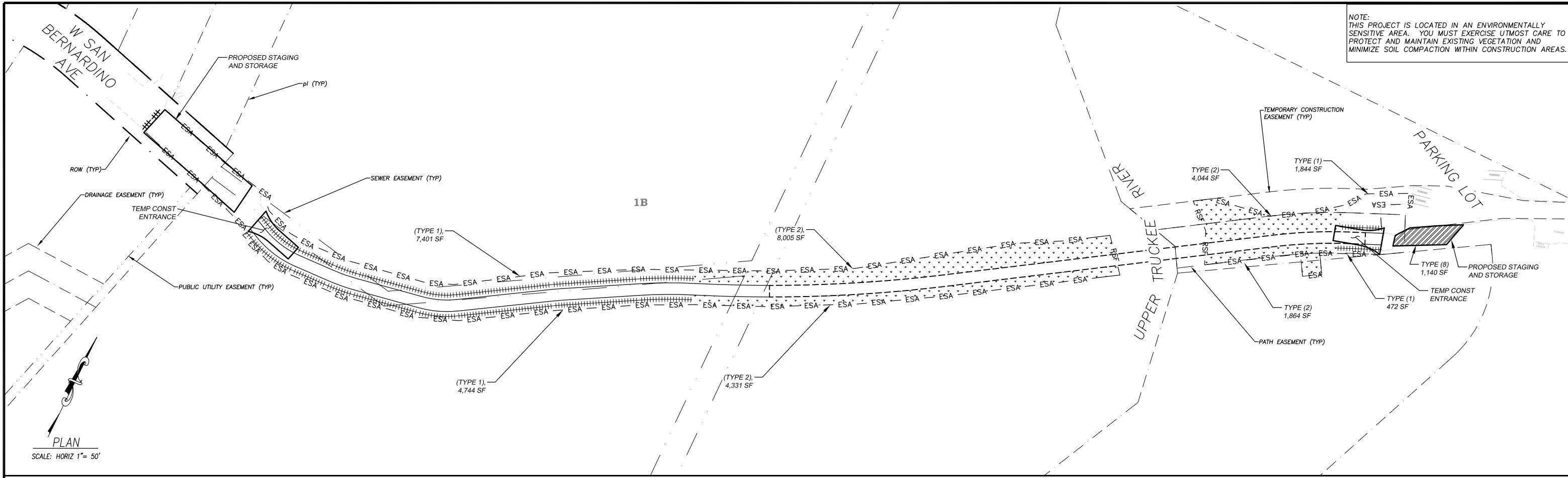


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
TEMPORARY EROSION CONTROL DETAILS

SHEET
EC-2
10 OF 29
CONTRACT NO.
5971
CIP No.
95117

NOTE: THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.



PLAN
SCALE: HORIZ 1" = 50'

SYMBOL LEGEND

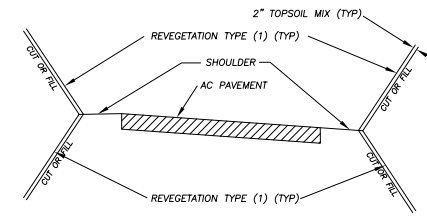
- ||||| REVEGETATION AREA (TYPE 1)
- REVEGETATION AREA (TYPE 2)
- ▨ REVEGETATION AREA (TYPE 8)
- ▭ STAGING AND STORAGE AREAS

NOTES

1. REVEGETATION TYPE (1) FOR AREAS ADJACENT TO ROAD/PATH SHOULDERING, PIPE INSTALLATION, DISTURBED AREAS ADJACENT TO IMPROVEMENTS, AND GRADE TO DRAIN LOCATIONS, UNLESS NOTED OTHERWISE.
2. ALL REVEGETATION AREAS DESCRIBED ABOVE WILL BE IRRIGATED WITH A WATER TRUCK BY THE COUNTY FOR TWO YEARS FOLLOWING INSTALLATION TO ENSURE OPTIMUM VEGETATION SURVIVAL.
3. SEE SPECIAL PROVISIONS FOR LOCATIONS WHERE SCARIFYING IS REQUIRED PRIOR TO REVEGETATION TREATMENT.

REVEGETATION WORK LEGEND

- TYPE (1) - STEP A: CONTRACTOR TO PLACE 2" COMPACTED TOPSOIL MIX
STEP B: COUNTY TO PLACE SEED
STEP C: CONTRACTOR TO APPLY 1" MULCH
STEP D: CONTRACTOR TO APPLY TACKIFIER.
- TYPE (2) - MEADOW AREAS:
STEP A: CONTRACTOR TO LOOSEN SOIL
STEP B: COUNTY TO PLACE SEED
STEP C: CONTRACTOR TO APPLY TACKIFIER.
- TYPE (3) - N/A.
TYPE (4) - N/A.
TYPE (5) - N/A.
TYPE (6) - N/A.
TYPE (7) - N/A.
TYPE (8) - STEP A: CONTRACTOR TO REGRADE TO MATCH SURROUNDING AREA.
STEP B: CONTRACTOR TO PLACE 3" WOOD CHIPS.



TYPICAL BIKE PATH REVEGETATION
NTS

REVEGETATION SUMMARY	
REVEGETATION TYPE	TOTAL (SF)
TYPE (1)	14,461
TYPE (2)	18,244
TYPE (8)	1,140

AMENDMENT PER REVEGETATION TYPE					
REVEGETATION TYPE	HUMUS (CY)	TOPSOIL MIX (CY)	MULCH (CY)	TACKIFIER (SF)	WOOD CHIPS (CY)
TYPE (1)	23	90	45	14,461	-
TYPE (2)	-	-	-	18,244	-
TYPE (8)	-	-	-	-	11
TOTALS	23	90	45	32,705	11

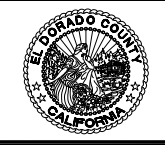
FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
REGISTERED CIVIL ENGINEER
MARCH 04, 2022
DATE:

DESIGNED: KIS
DRAWN: KIS
CHECKED: DSP
DATE: 02/2022
ROAD NUMBER: ---

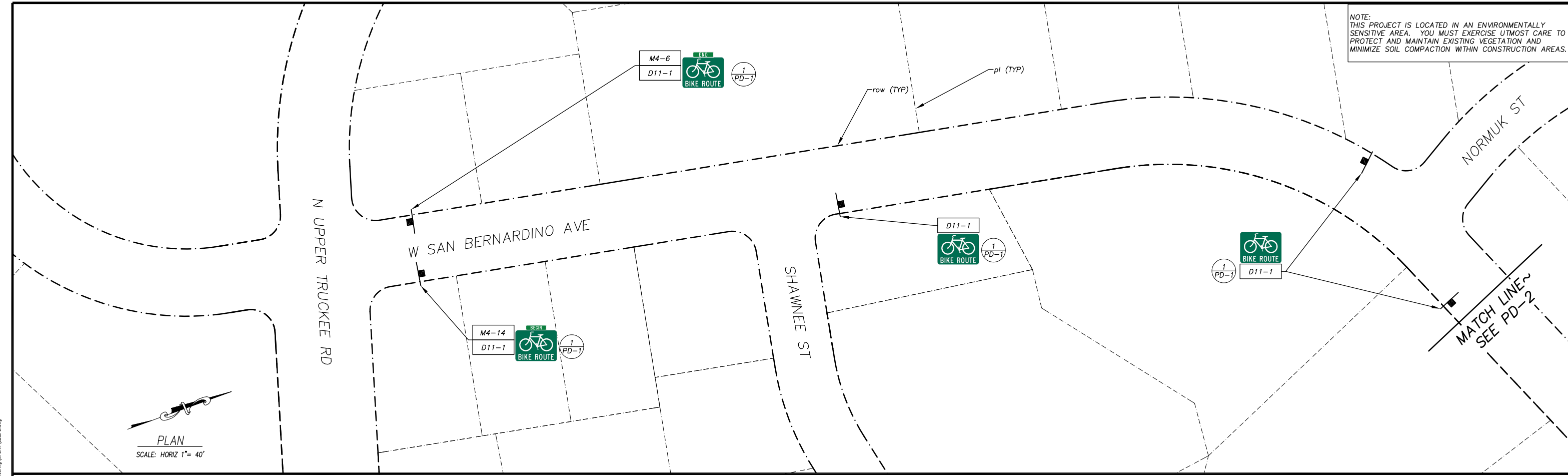


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
REVEGETATION PLAN**

SHEET
R-1
11 OF 29
CONTRACT NO.
5971
CIP No.
95117

NOTE: THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.



PLAN
SCALE: HORIZ 1" = 40'

SIGNING LEGEND

- XX - SIGN NUMBER, SEE TABLE DETAILS
- - EXIST SIGN
- - INSTALL SIGN
- ▬ - INSTALL DOUBLE SIDED SIGN
- * - REMOVE AND REPLACE

CONSTRUCTION NOTES:

- A - 4" SOLID YELLOW STRIPE PAINTED PER DIMENSIONS SHOWN
- B - "PATH ENDS" PAVEMENT MARKING (H=48", W=38") PER CALTRANS RSP A24D (1/2 SIZE) PLACE 5' @ FROM LIMIT LINE
- C - DASHED CENTERLINE STRIPING PER CAMUTCD FIG 9C-2

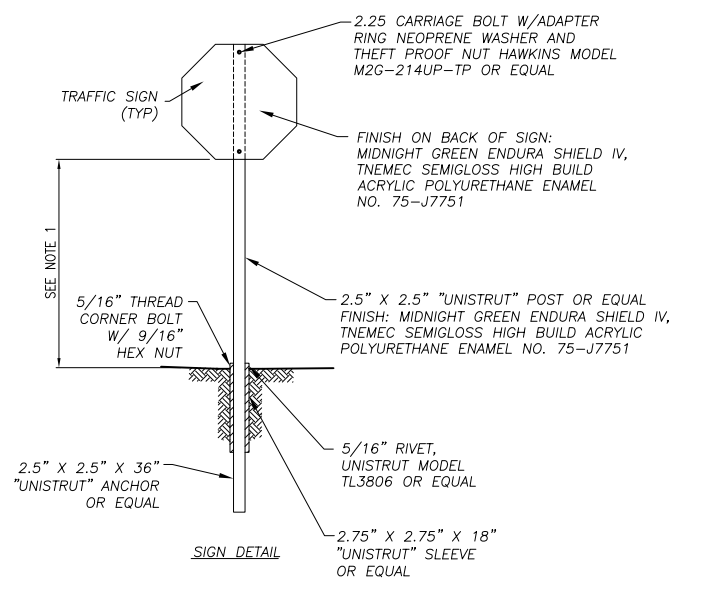
NOTES:
 1) FINISH ON BACK OF SIGN: MIDNIGHT GREEN ENDURA SHIELD IV, TNE MEC SEMIGLOSS HIGH BUILD ACRYLIC POLYURETHANE ENAMEL NO. 75-J7751
 2) ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
 3) ASTM DESIGNATION APPLIES TO ALL COLORS ON SIGN OR RAIL. BLACK SHALL BE NON-REFLECTIVE.

ROADWAY AND BIKE PATH SIGNS

SIGN DESIGNATION	SIGN MESSAGE AND DESCRIPTION	SIGN SIZE	QTY	SIGN COLORS	RETROREFLECTIVE ASTM TYPE
D11-1	"BIKE ROUTE" SIGN	24"x18"	15	WHITE ON GREEN	III
M4-14	"BEGIN" SIGN	12"x6"	2	WHITE ON GREEN	III
M4-6	"END" SIGN	12"x6"	2	WHITE ON GREEN	III
M6-1	TURN ARROW SIGN	12"x9"	1	WHITE ON GREEN	III
M6-3	"UP" ARROW SIGN	12"x9"	2	WHITE ON GREEN	III
R44A (CA)	"NO MOTOR VEHICLES" SIGN	12"x24"	2	BLACK ON WHITE	III

PAVEMENT STRIPING

TYPE	SHEET	SPRAYABLE PAINT
		YELLOW LF
SOLID YELLOW STRIPING	PD-1	-
	PD-2	71
	PD-3	-
BROKEN YELLOW CENTERLINE STRIPING	PD-1	-
	PD-2	507
	PD-3	-
TOTAL		578



NOTES:
 1. 7' ABOVE EP.
 2. LETTERING TO BE CENTERED.
 3. POST SHALL BE 3' FROM EP.

BIKE PATH SIGN INSTALLATION 1 PD-1
NTS

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 MARCH 04, 2022
 DATE:

DESIGNED: KIS
 DRAWN: KIS
 CHECKED: DSP
 DATE: 02/2022
 ROAD NUMBER: ---

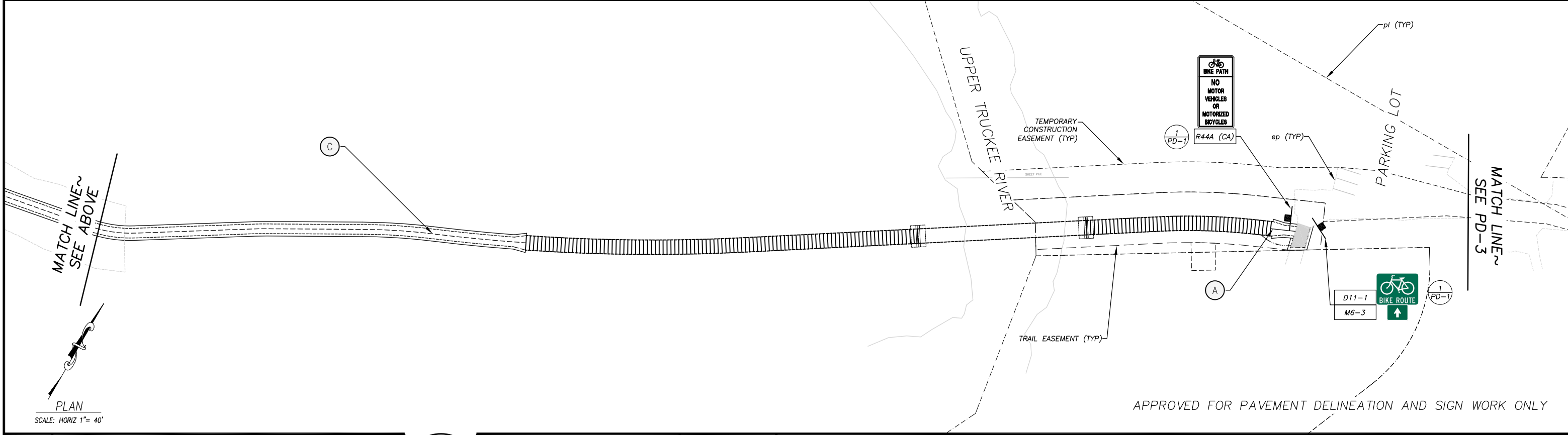
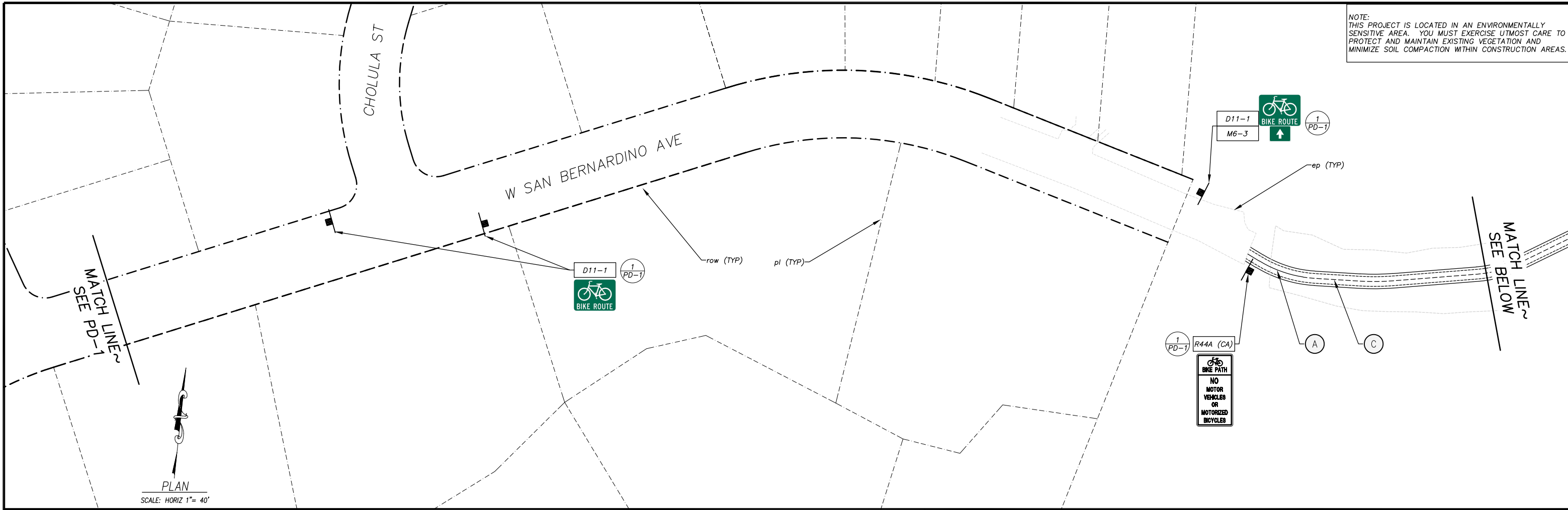


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
 SIGNING AND PAVEMENT DELINEATION

SHEET PD-1
 12 OF 29
 CONTRACT NO. 5971
 OIP No. 95117

NOTE:
THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.



APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
REGISTERED CIVIL ENGINEER
MARCH 04, 2022
DATE:

DESIGNED: KIS
DRAWN: KIS
CHECKED: DSP
DATE: 02/2022
ROAD NUMBER: ---

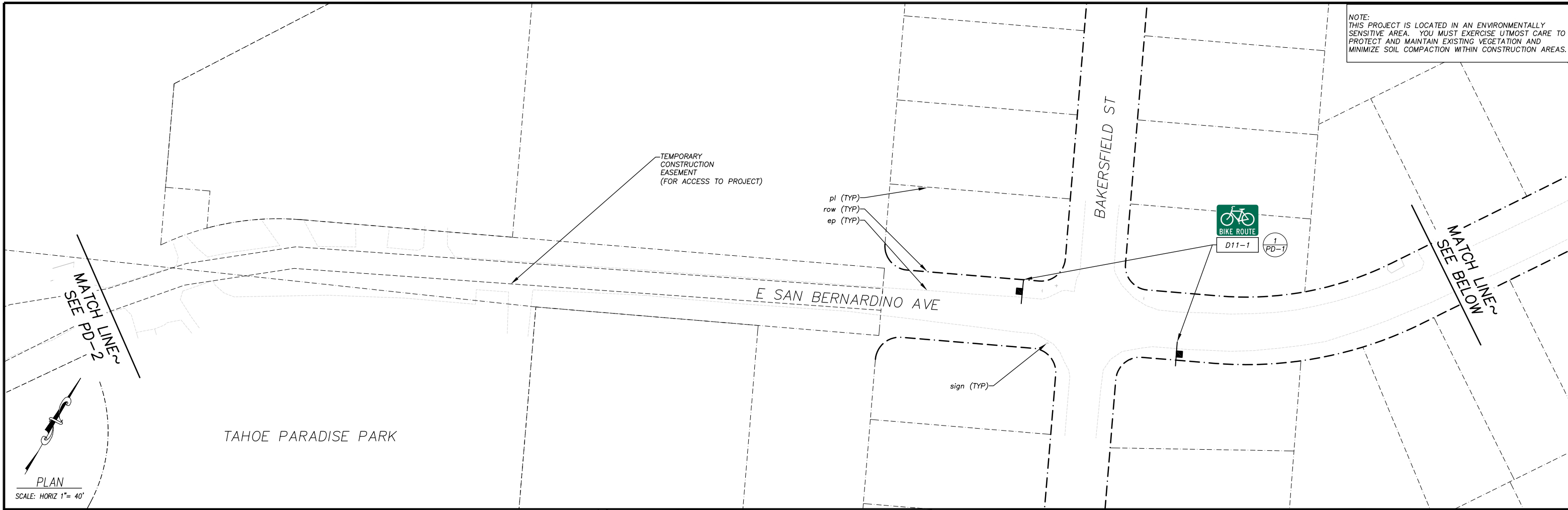


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

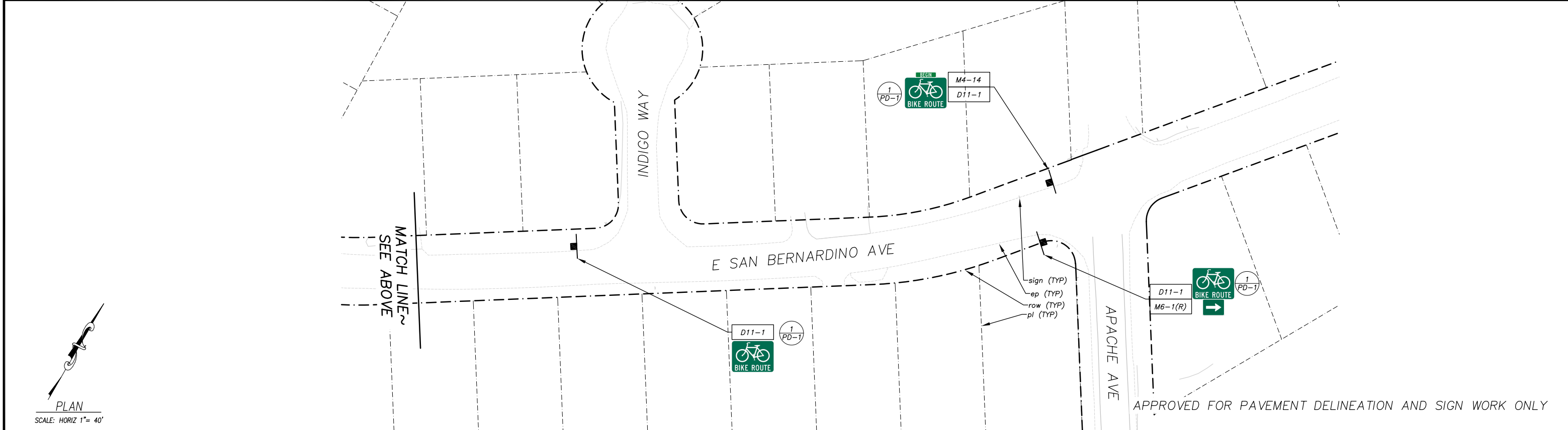
SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
SIGNING AND PAVEMENT DELINEATION

SHEET PD-2
13 OF 29
CONTRACT NO. 5971
CIP No. 95117

NOTE:
THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.



PLAN
SCALE: HORIZ 1" = 40'



PLAN
SCALE: HORIZ 1" = 40'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
REGISTERED CIVIL ENGINEER
MARCH 04, 2022
DATE:

DESIGNED: KIS
DRAWN: KIS
CHECKED: DSP
DATE: 02/2022
ROAD NUMBER: ---

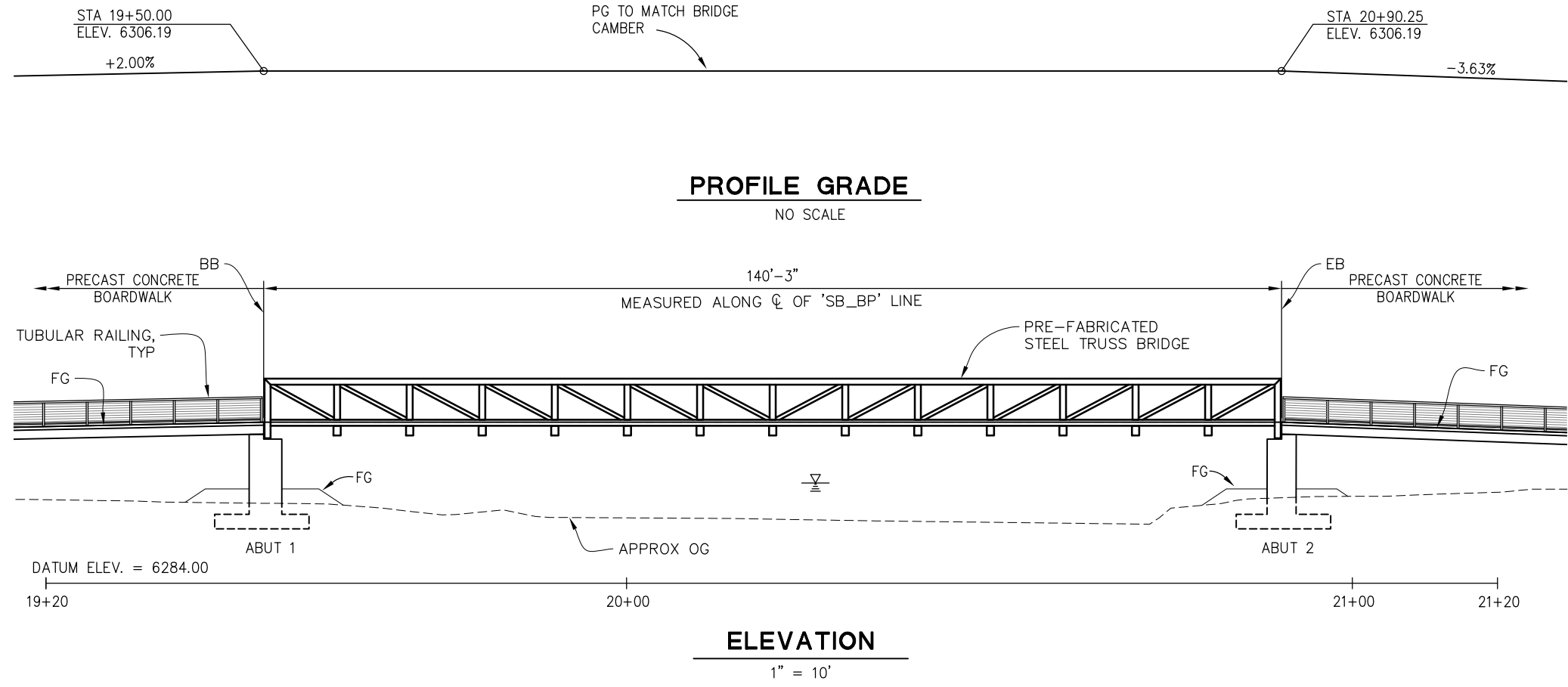


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
SIGNING AND PAVEMENT DELINEATION

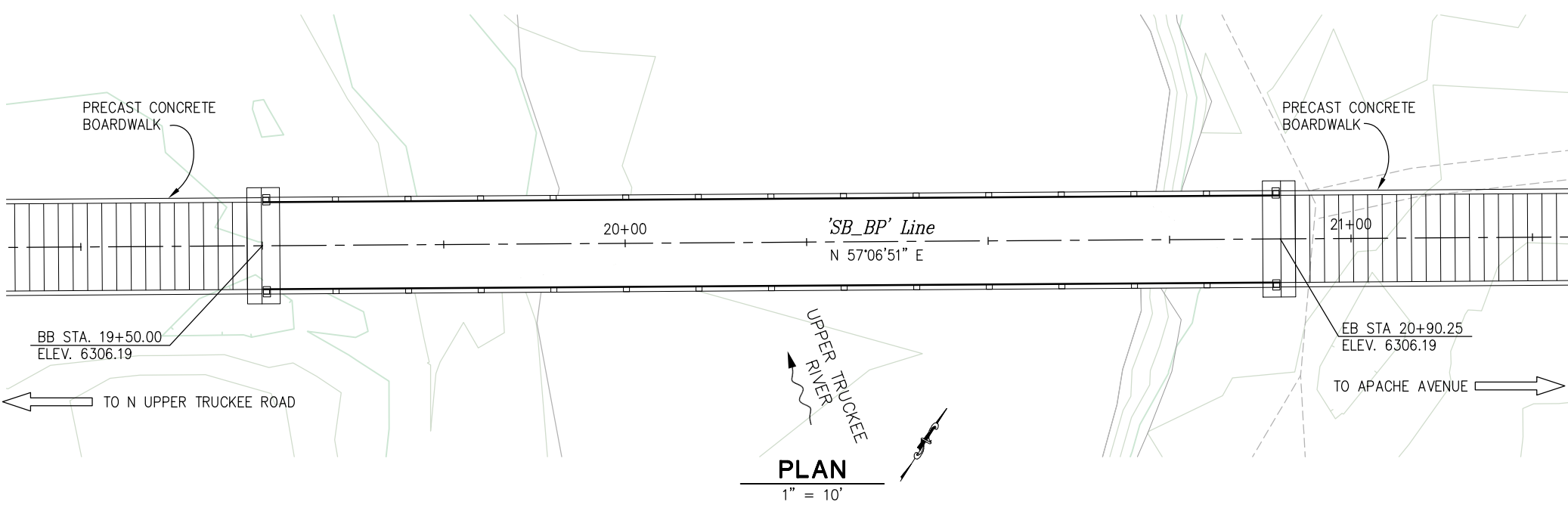
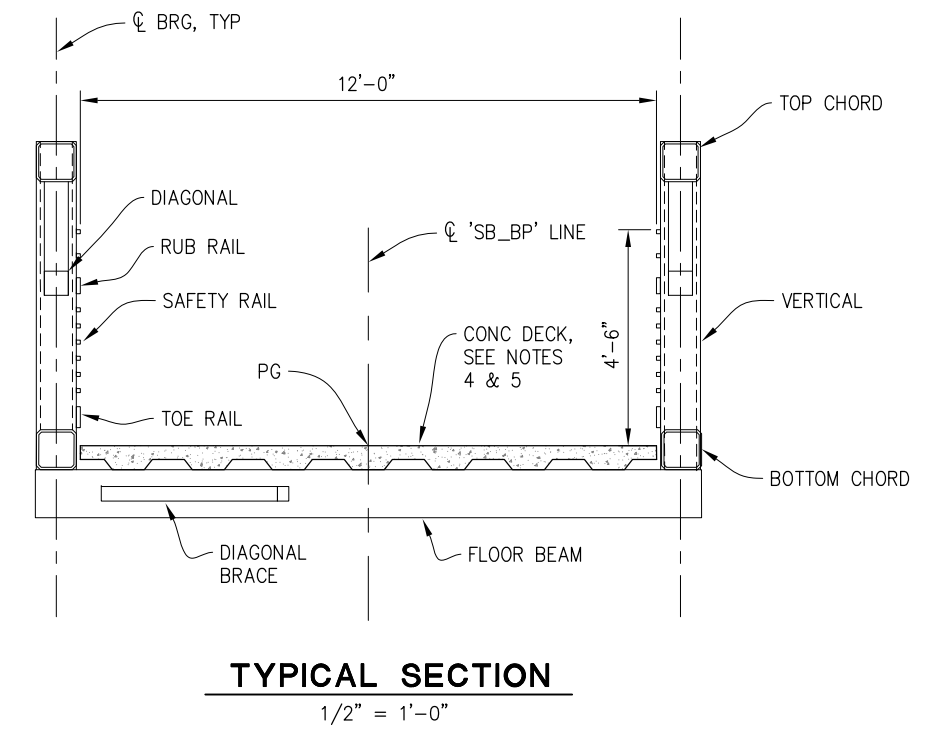
SHEET PD-3
14 OF 29
CONTRACT NO. 5971
CIP No. 95117

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\95117 San Bernardino CL1 BP\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-1 Mar 03, 2022 11:34am Dharrington



QUANTITIES:

STRUCTURE EXCAVATION (BRIDGE)	178 CY
STRUCTURE BACKFILL (BRIDGE)	87 CY
GEOSYNTHETIC REINFORCED SUBGRADE (BRIDGE FOOTING)	51 CY
FURNISH AND INSTALL PRECAST CONCRETE BOARDWALK SYSTEM	1 LS
STRUCTURAL CONCRETE, BRIDGE FOOTING	41 CY
STRUCTURAL CONCRETE, BRIDGE	59 CY
BAR REINFORCING STEEL (BRIDGE)	20,892 LB
FURNISH AND INSTALL PREFABRICATED STEEL TRUSS BRIDGE	1 LS
ROCK SLOPE PROTECTION (60 LB, CLASS II, METHOD B)	116 CY
ANTI-GRAFFITI COATING	4,747 SF
FURNISH AND INSTALL TUBULAR STEEL RAILING	958 LF



- NOTES:**
- FOR "GENERAL NOTES", SEE "INDEX TO PLANS" SHEET
 - CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE
 - CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS PRIOR TO ORDERING OR FABRICATING ANY MATERIALS
 - BRIDGE FABRICATOR SHALL DESIGN CAST-IN-PLACE REINFORCED CONCRETE DECK. CALCULATIONS AND SHOP DRAWINGS MUST BE SUBMITTED FOR REVIEW
 - ALL BRIDGE DECK REINFORCEMENT MUST BE EPOXY COATED AND HAVE A MINIMUM OF 2 1/2" COVER OVER TOP LAYER OF REINFORCEMENT
 - FOR SPREAD FOOTING DATA TABLE AND HYDROLOGIC SUMMARY, SEE "FOUNDATION PLAN" SHEET

INDEX TO BRIDGE PLANS

SHEET	TITLE
S-1	GENERAL PLAN
S-2	INDEX TO PLANS
S-3	FOUNDATION PLAN
S-4	ABUTMENT LAYOUT
S-5	ABUTMENT DETAILS
S-6	BOARDWALK LAYOUT PLAN
S-7	BOARDWALK FOUNDATION PLAN
S-8	BOARDWALK FOUNDATION PLAN
S-9	BOARDWALK TYPICAL DETAILS
S-10	BOARDWALK RAILING
S-11	ROCK SLOPE PROTECTION
S-12	LOG OF TEST BORINGS
S-13	LOG OF TEST BORINGS
S-14	LOG OF TEST BORINGS

- LEGEND:**
- INDICATES DIRECTION OF WATER FLOW
 - INDICATES HIGH WATER SURFACE ELEVATION (6298.20)

**GENERAL PLAN
SCALE : AS SHOWN**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
Justin W. Harrington
REGISTERED CIVIL ENGINEER
DATE: 03/04/22

DESIGNED: DWH
DRAWN: SGM
CHECKED: MSF
DATE: 2/7/22
ROAD NUMBER: -



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**SAN BERNARDINO
CLASS 1 BIKE TRAIL PROJECT**

SHEET
S-1
15 OF 29
W.O. No. **95117**

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (2009), AND AASHTO LRFD BRIDGE DESIGN SPECIFICATION (8TH EDITION) WITH CALIFORNIA AMENDMENTS, PREFACE DATED JANUARY 2014, EXCEPT FOR BOARDWALK FOUNDATIONS

SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC), VERSION 2.0, APRIL 2019

DEAD LOAD: NO ALLOWANCE FOR FUTURE WEARING SURFACE

LIVE LOAD: H10 VEHICLE AND 90 PSF PEDESTRIAN (PED) LOADING

SNOW LOAD: 218 PSF

WIND LOADING: WIND LOAD IN ACCORDANCE WITH ARTICLE 3.4 OF AASHTO SPECIFICATIONS; BASIC WIND SPEED = 100 MPH

SEISMIC LOAD: SOIL PROFILE: $V_{s30} = 270$ M/S (886 FT/S)
MOMENT MAGNITUDE: $M_{max} = 7.5$
PEAK GROUND ACCELERATION = 0.42g

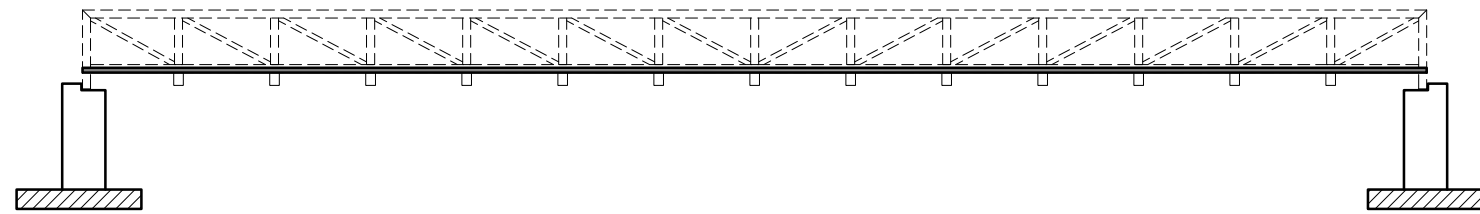
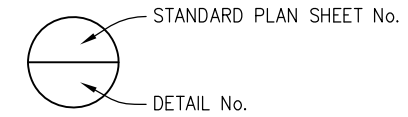
REINFORCED CONCRETE: $f_y = 60$ KSI
 $f'_c = 3.6$ KSI, UNLESS NOTED OTHERWISE
 $n = 8$

STRUCTURAL STEEL: TUBULAR SECTIONS: ASTM A847; $f_y = 50$ KSI
BRIDGE ANCHOR BOLTS: ASTM F1554; $f_y = 55$ KSI

UNFACTORED BRIDGE LOADS		
LOADING TYPE	ABUT 1 (KIPS)	ABUT 2 (KIPS)
DEAD LOAD	138	138
LIVE LOAD	77 (PED) 20 (H10)	77 (PED) 20 (H10)
SNOW LOAD	212	212
TRANSVERSE WIND	61	61
WIND UPLIFT	-30	-30
LONGITUDINAL SEISMIC	116	0
TRANSVERSE SEISMIC	58	58

CALTRANS STANDARD PLANS DATED 2018

- A3A ABBREVIATIONS (SHEET 1 OF 3)
- A3B ABBREVIATIONS (SHEET 2 OF 3)
- A3C ABBREVIATIONS (SHEET 3 OF 3)
- A10A LINES AND SYMBOLS (SHEET 1 OF 5)
- A10B LINES AND SYMBOLS (SHEET 2 OF 5)
- A10C LINES AND SYMBOLS (SHEET 3 OF 5)
- A10D LINES AND SYMBOLS (SHEET 4 OF 5)
- A10E LINES AND SYMBOLS (SHEET 5 OF 5)
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE

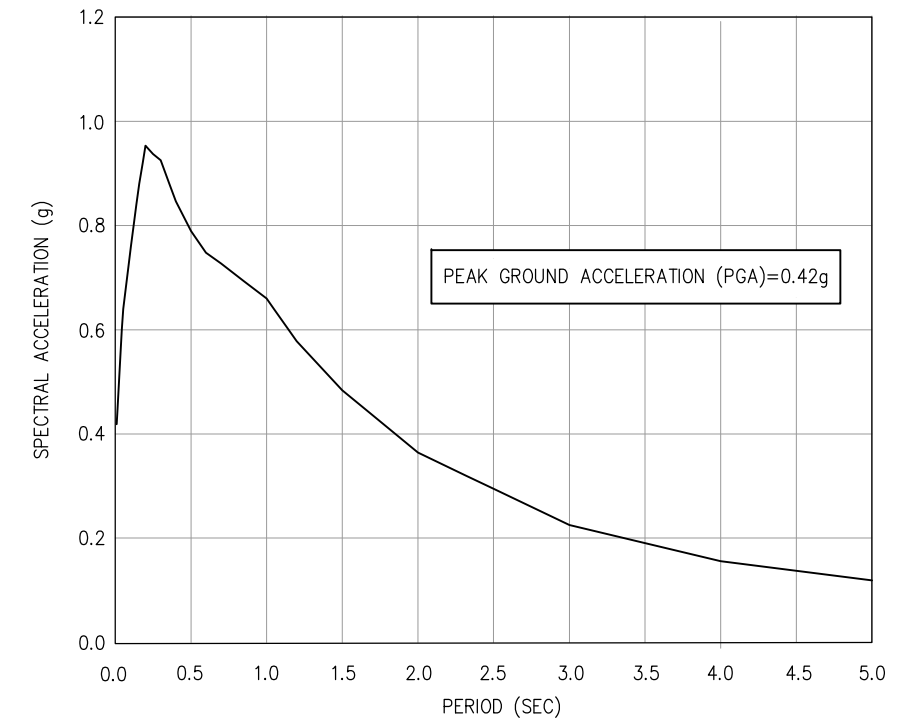


CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

- STRUCTURAL CONCRETE, BRIDGE (3.6 KSI @ 28 DAYS)
- STRUCTURAL CONCRETE, BRIDGE (4.0 KSI @ 28 DAYS)
- STRUCTURAL CONCRETE, BRIDGE FOOTING (3.6 KSI @ 28 DAYS)

ACCELERATION RESPONSE SPECTRA CURVE



INDEX TO PLANS
SCALE : AS SHOWN

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\95117_San Bernardino CL1_BP\CADD_Files\Sheets\S-Sheets.dwg Layout: Tab: S-2 Mar 03,2022 - 11:36am Dharrington

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
[Signature]
REGISTERED CIVIL ENGINEER
DATE: 03/04/22

DESIGNED: DWH
DRAWN: SGM
CHECKED: MSF
DATE: 2/7/22
ROAD NUMBER: -

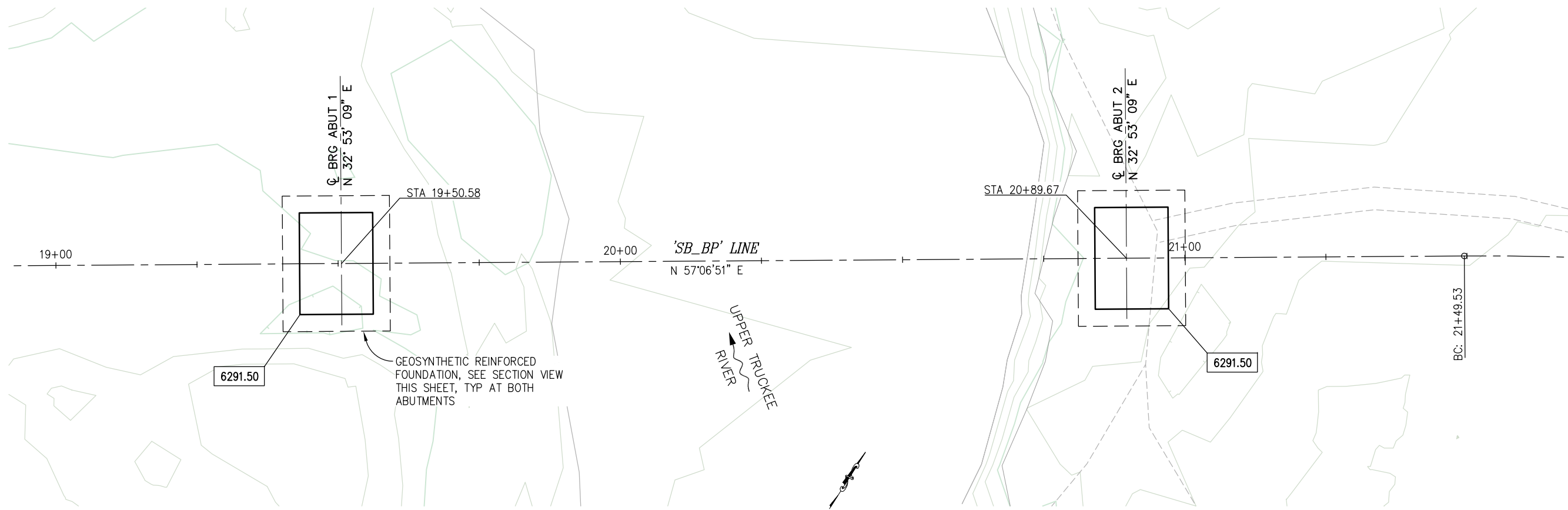


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

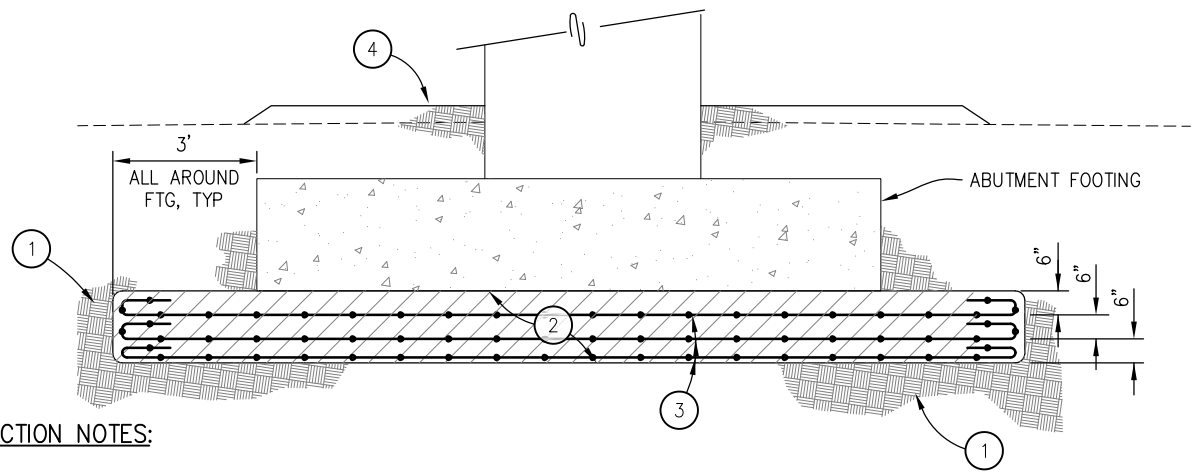
SAN BERNARDINO
CLASS 1 BIKE TRAIL PROJECT

SHEET
S-2
16 OF 29
W.O. No. **95117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: Z:\Civil 3D Projects\95117 San Bernardino CL1 BR\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-3 Mar 07, 2022 - 11:49am Dharrington
 FOR REDUCED PLANS
 2
 1
 0



FOUNDATION PLAN
1" = 10'



TYPICAL GEOSYNTHETIC REINFORCEMENT SECTION
NO SCALE

CONSTRUCTION NOTES:

- ① — UNDISTURBED NATIVE SOIL
- ② — AB (CLASS 2) REINFORCED GRANULAR FILL, PLACE IN 6" UNIFORM LIFTS AND COMPACT TO 95%
- ③ — TENSAR TX7 OR TX190L GEOGRID OR APPROVED EQUAL
- ④ — FINISH GRADE, COMPACTED TO 95% IN 8" MAX THICK LAYERS PER "STRUCTURE BACKFILL" STANDARD SPECIFICATIONS

SCOUR DATA TABLE		
SUPPORT NO.	LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (FT)	SHORT TERM (LOCAL) SCOUR DEPTH (FT)
ABUT 1	6294.85	2.93
ABUT 2	6295.33	2.74

SPREAD FOOTING DATA TABLE		
SUPPORT LOCATION	SERVICE PERMISSIBLE NET CONTACT STRESS (SETTLEMENT) (KSF)	STRENGTH/CONSTRUCTION FACTORED GROSS NOMINAL BEARING RESISTANCE (KSF) φb=0.45 (KSF)
ABUT 1	8.4	6.48
ABUT 2	8.4	6.48

HYDROLOGIC SUMMARY TABLE			
DRAINAGE AREA = 39.86 SQ. MI.			
	DESIGN FLOOD	BASE FLOOD	FLOOD OF RECORD
FREQUENCY (YEARS)	50	100	1997 YEAR
DISCHARGE (CFS)	4072.2	5168.9	5120
WATER SURFACE ELEVATION (FT) AT BRIDGE	6297.76	6298.20	6299.73

LEGEND:

XXXX.XX — BOTTOM OF FOOTING ELEVATION

~> — INDICATES DIRECTION OF WATER FLOW

NOTE: FLOODPLAIN DATA BASED ON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED BY EL DORADO COUNTY. INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATION.

FOUNDATION PLAN
SCALE : AS SHOWN



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 03/04/22

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: MSF
 DATE: 3/4/22
 ROAD NUMBER: -

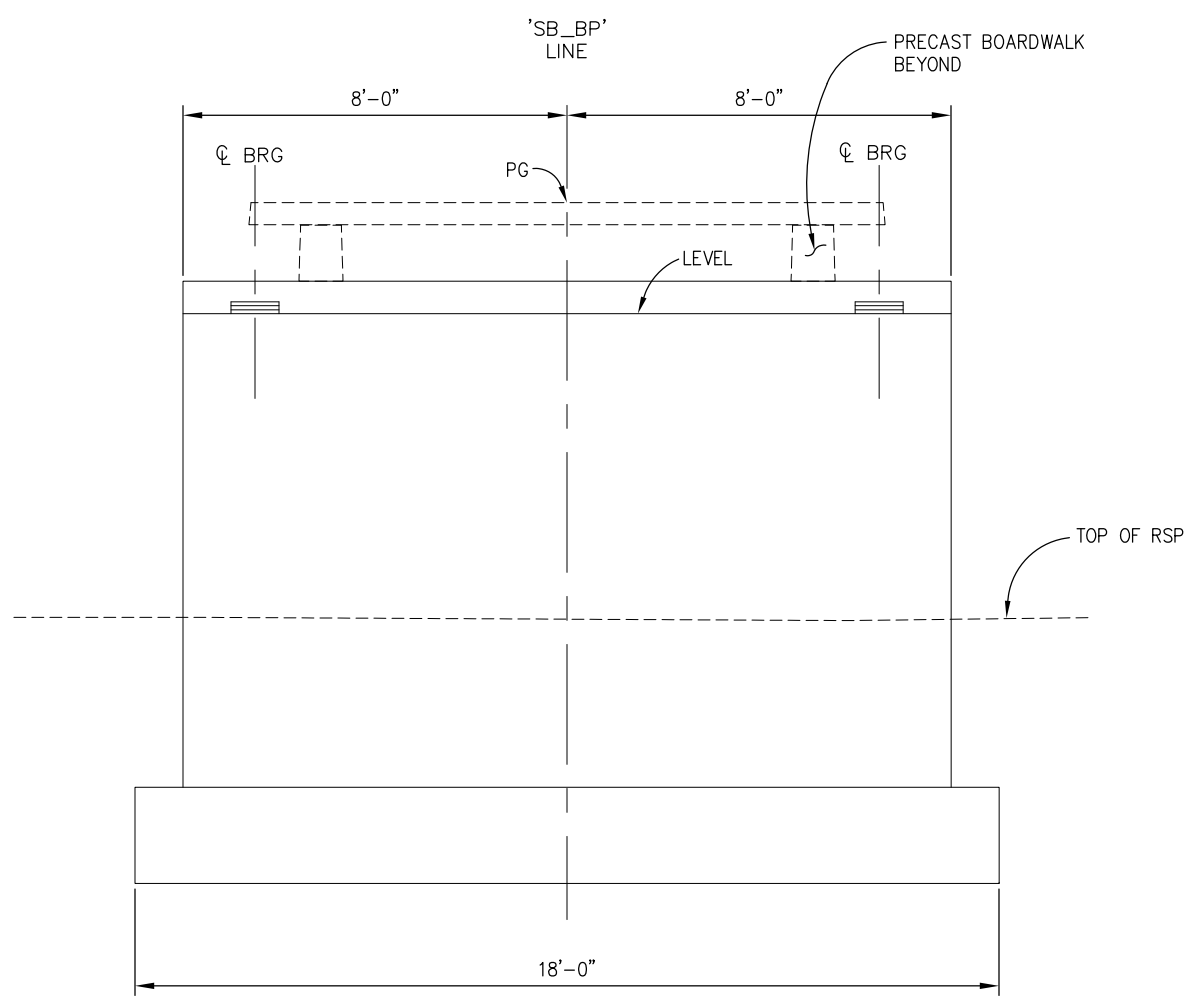


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

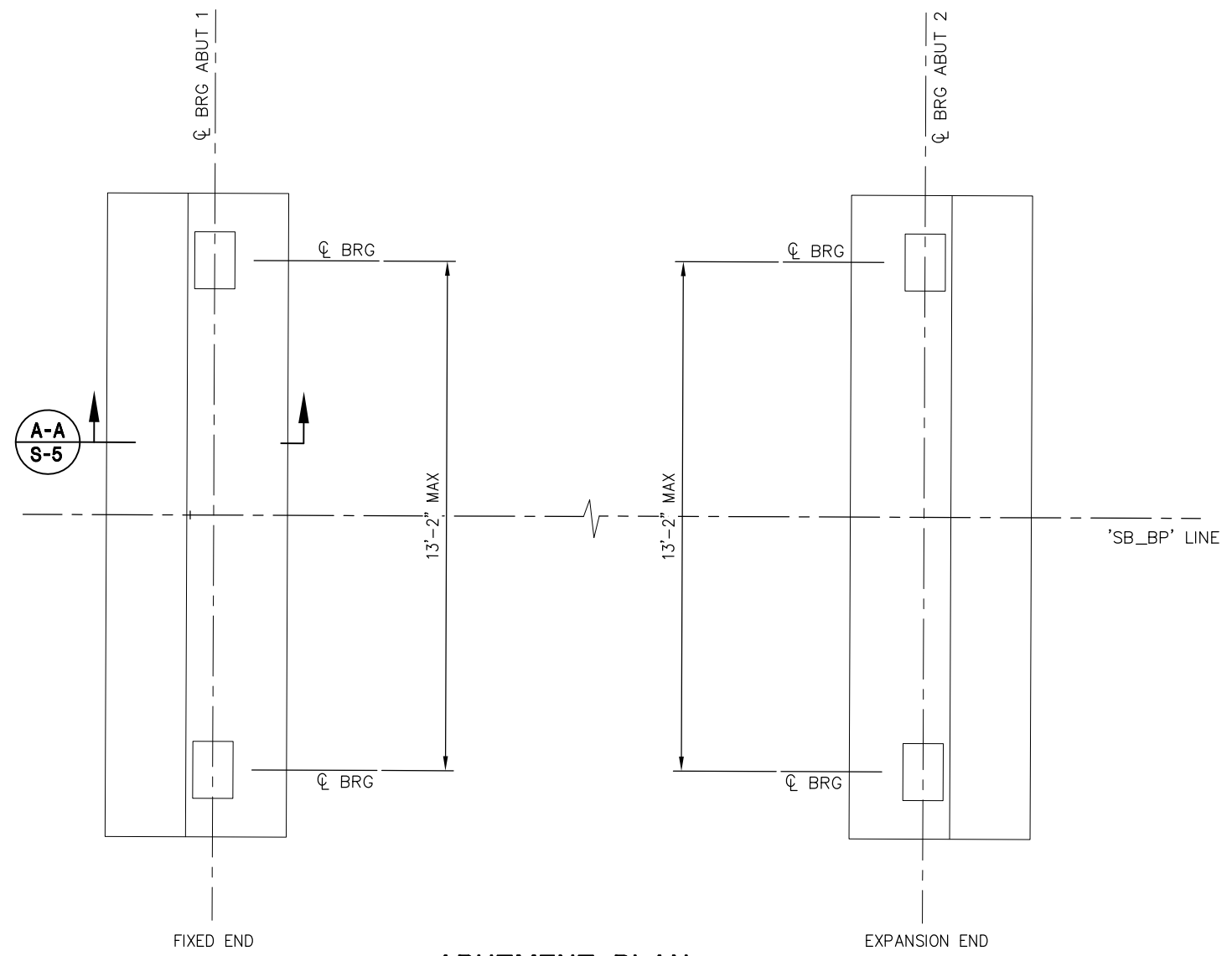
SAN BERNARDINO
CLASS 1 BIKE TRAIL PROJECT

SHEET
S-3
17 OF 29
W.O. No. **95117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: Z:\Civil 3D Projects\95117 San Bernardino CL1 BP\CADD Files\Sheets\S-Sheets.dwg Layout: Tab: S-4 Mar 03,2022 - 11:39am Dharrington
 FOR REDUCED PLANS
 2
 1
 0



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



ABUTMENT PLAN
1/2" = 1'-0"

ABUTMENT LAYOUT
SCALE : AS SHOWN



PREPARED UNDER THE SUPERVISION OF :
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 03/04/22

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: MSF
 DATE: 2/7/22
 ROAD NUMBER: -

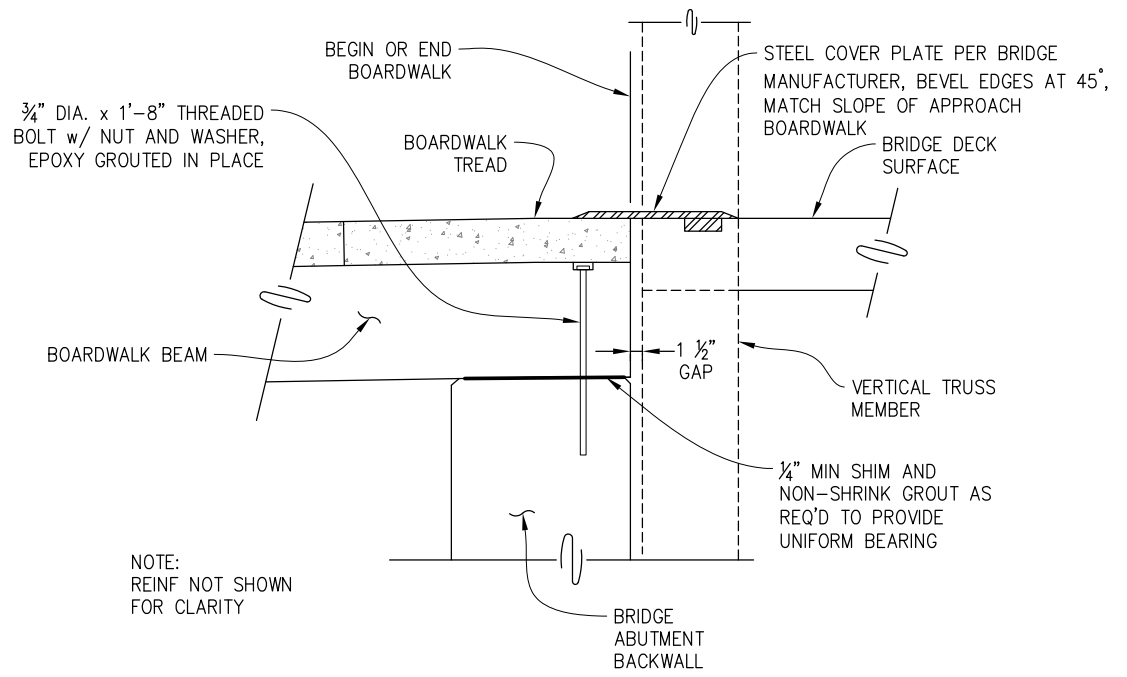


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO
CLASS 1 BIKE TRAIL PROJECT

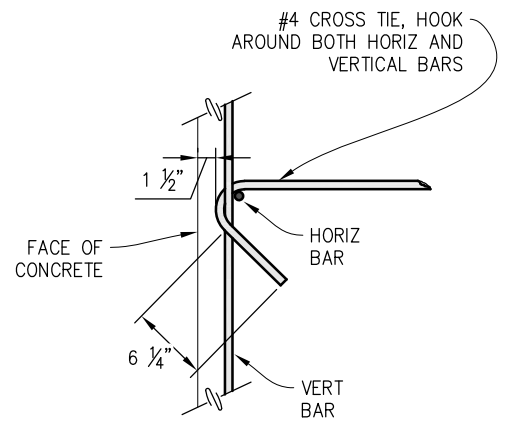
SHEET
S-4
 18 OF 29
 W.O. No. **95117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: Z:\Civil 3D Projects\95117 San Bernardino CL1 BR\CADD Files\Sheets\S-Sheets.dwg Layout: Tab: S-5 Mar 07, 2022 - 11:50am Dharrington
 FOR REDUCED PLANS
 2
 1
 0

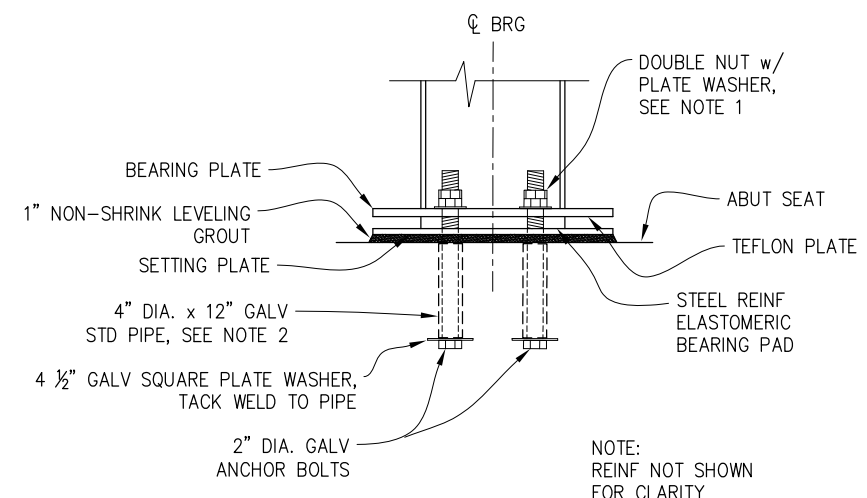


NOTE: REINF NOT SHOWN FOR CLARITY

1 BOARDWALK AT ABUTMENT
1" = 1'-0"



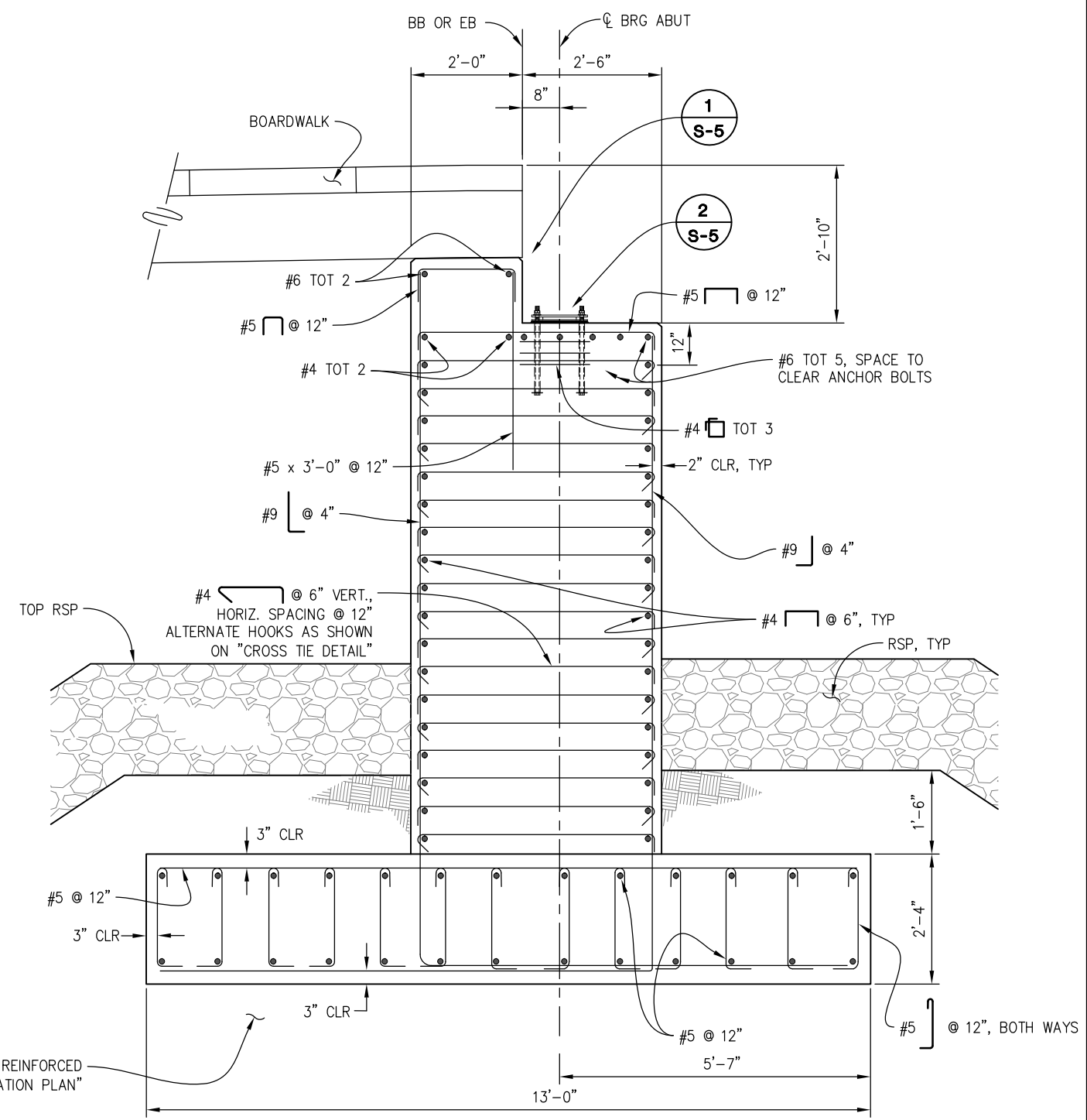
CROSS TIE DETAIL
NO SCALE



NOTE: REINF NOT SHOWN FOR CLARITY

2 BRIDGE BEARING ASSEMBLY
NO SCALE

- NOTES:
- EXPANSION END: BOTTOM NUT FINGER TIGHT, TOP NUT SNUG TIGHT TO ALLOW MOVEMENT
FIXED END: BOTH NUTS SNUG TIGHT
 - FILL PIPE WITH NON-SHRINK GROUT AFTER SETTING TRUSS
 - REPRESENTATIVE BEARING SHOWN, BRIDGE MANUFACTURER TO SUBMIT COMPLETE BEARING DETAILS FOR APPROVAL PRIOR TO CONSTRUCTION



SECTION A-A
3/4" = 1'-0"
ABUT 1 SHOWN, ABUT 2 SIMILAR

ABUTMENT DETAILS
SCALE : AS SHOWN



PREPARED UNDER THE SUPERVISION OF :
 [Signature]
 REGISTERED CIVIL ENGINEER
 03/04/22

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: MSF
 DATE: 3/4/22
 ROAD NUMBER: -

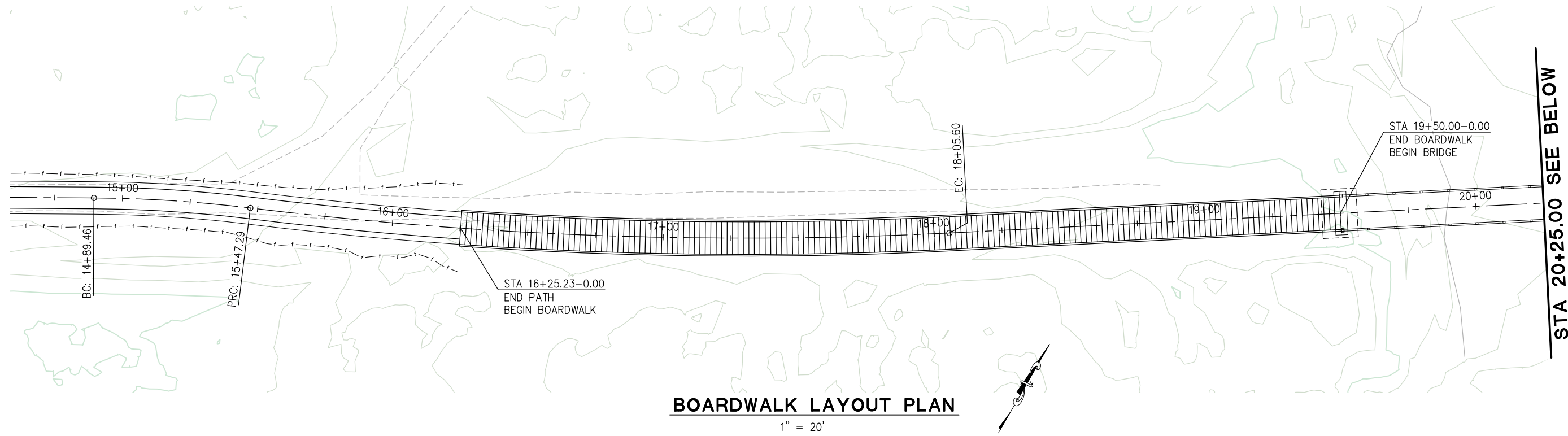
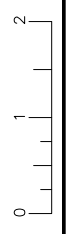


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO
 CLASS 1 BIKE TRAIL PROJECT

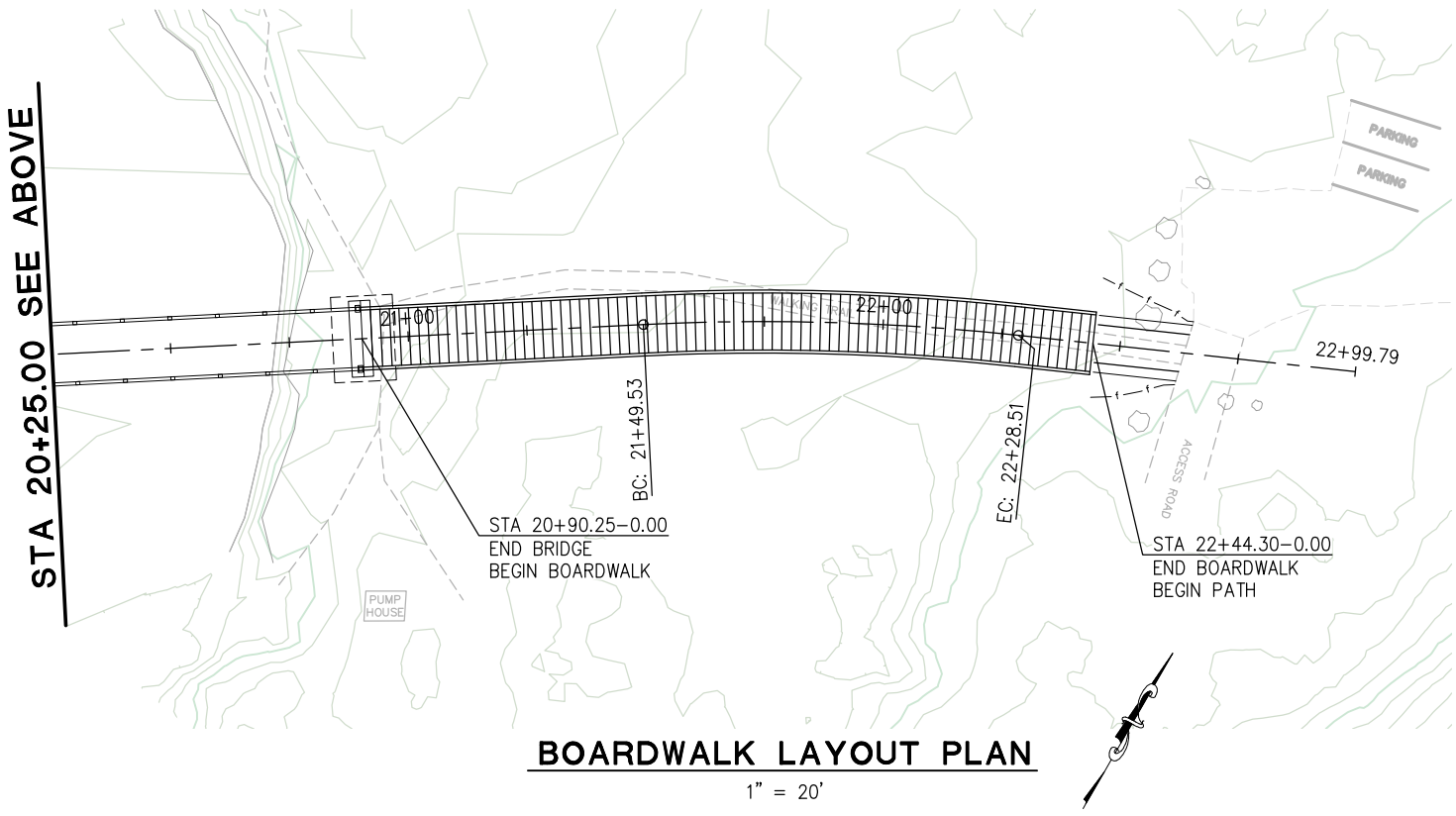
SHEET
S-5
 19 OF 29
 W.O. No. **95117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: Z:\Civil 3D Projects\95117 San Bernardino CL1 BP\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-6 Mar 03, 2022 - 11:41am Dharrington



BOARDWALK LAYOUT PLAN
1" = 20'

STA 20+25.00 SEE BELOW



BOARDWALK LAYOUT PLAN
1" = 20'

STA 20+25.00 SEE ABOVE

BOARDWALK LAYOUT PLAN
SCALE : AS SHOWN



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: 03/04/22

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: MSF
 DATE: 2/7/22
 ROAD NUMBER: -



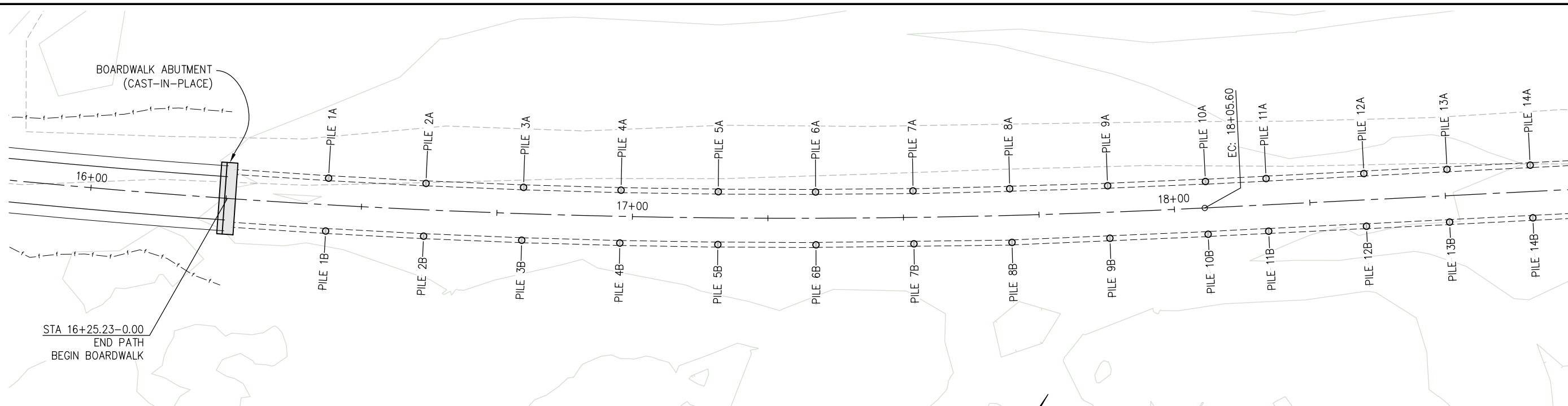
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO
CLASS 1 BIKE TRAIL PROJECT

SHEET
S-6
 20 OF 29
 W.O. No. **95117**

REVISION	NUMBER	DATE	DESCRIPTION	BY

ORIGINAL SCALE IS IN INCHES
 Drawing name: Z:\Civil 3D Projects\95117 San Bernardino CL1 BR\CADD Files\Sheets\S-Sheets.dwg Layout: Tab: S-7 Mar 03, 2022 - 11:42am Dharrington
 FOR REDUCED PLANS
 REVISION



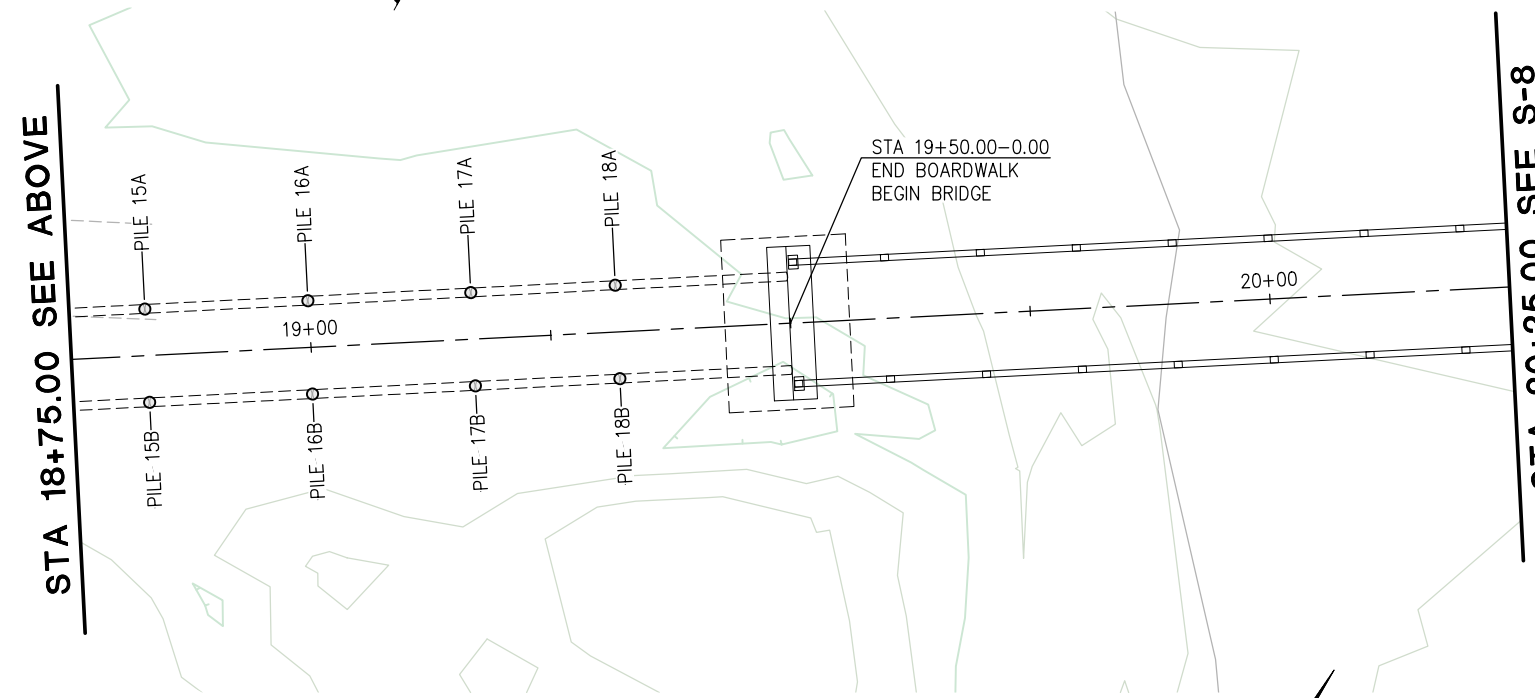
PILE DATA TABLE

LOCATION	PILE TYPE	DESIGN LOADING (KIPS)	ALLOWABLE AXIAL CAPACITY (KIPS)		DESIGN TIP DEPTH (FT)	SPECIFIED TIP DEPTH (FT)
			COMPRESSION	TENSION		
PILE 1A	14" FRP	36.2	42	0	25 (a)	25
PILE 1B	14" FRP	36.2	42	0	25 (a)	25
PILE 2A	14" FRP	34.7	42	0	25 (a)	25
PILE 2B	14" FRP	35.6	42	0	25 (a)	25
PILE 3A	14" FRP	35.1	42	0	25 (a)	25
PILE 3B	14" FRP	35.6	42	0	25 (a)	25
PILE 4A	14" FRP	35.1	42	0	25 (a)	25
PILE 4B	14" FRP	34.7	42	0	25 (a)	25
PILE 5A	14" FRP	37.8	42	0	25 (a)	25
PILE 5B	14" FRP	37.8	42	0	25 (a)	25
PILE 6A	14" FRP	37.8	42	0	25 (a)	25
PILE 6B	14" FRP	37.8	42	0	25 (a)	25
PILE 7A	14" FRP	37.9	42	0	25 (a)	25
PILE 7B	14" FRP	37.9	42	0	25 (a)	25
PILE 8A	14" FRP	36.8	42	0	25 (a)	25
PILE 8B	14" FRP	36.9	42	0	25 (a)	25
PILE 9A	14" FRP	35.6	42	0	25 (a)	25
PILE 9B	14" FRP	35.6	42	0	25 (a)	25
PILE 10A	14" FRP	35.6	42	0	25 (a)	25
PILE 10B	14" FRP	35.6	42	0	25 (a)	25
PILE 11A	14" FRP	37.0	42	0	25 (a)	25
PILE 11B	14" FRP	37.0	42	0	25 (a)	25
PILE 12A	14" FRP	36.3	42	0	25 (a)	25
PILE 12B	14" FRP	36.3	42	0	25 (a)	25
PILE 13A	14" FRP	33.4	42	0	25 (a)	25
PILE 13B	14" FRP	33.4	42	0	25 (a)	25

BOARDWALK FOUNDATION PLAN

1" = 10'

NOTE: BOARDWALK BEAM LENGTHS VARY. REFER TO PERMATRAK BOARDWALK DRAWINGS FOR BEAM LENGTHS AND LOCATIONS. PILE LOCATIONS SHOWN ARE APPROXIMATE.



BOARDWALK FOUNDATION PLAN

1" = 10'

PILE DATA TABLE NOTES:

DESIGN TIP DEPTHS ARE CONTROLLED BY: (a) COMPRESSION, (c) SETTLEMENT, (d) LATERAL LOAD

FRP = FIBER-REINFORCED POLYMER COMPOSITE PILE (APPROX 6" WALL THICKNESS)

TIP DEPTHS ARE MEASURED FROM THE GROUND ELEVATION

THE ESTIMATED DOWNDRAG LOAD IS 17 KIPS FOR PILES 21A THROUGH 26B
 NET ULTIMATE PILE CAPACITY = 2.25 x ALLOWABLE AXIAL CAPACITY - DOWNDRAG LOAD

PILE DATA TABLE CONTINUED ON SHEET S-8

NOTE: REFER TO CONTRACT SPECIAL PROVISIONS FOR TEST PILE REQUIREMENTS.

BOARDWALK FOUNDATION PLAN
 SCALE : AS SHOWN



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 03/04/22

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: MSF
 DATE: 2/7/22
 ROAD NUMBER: -



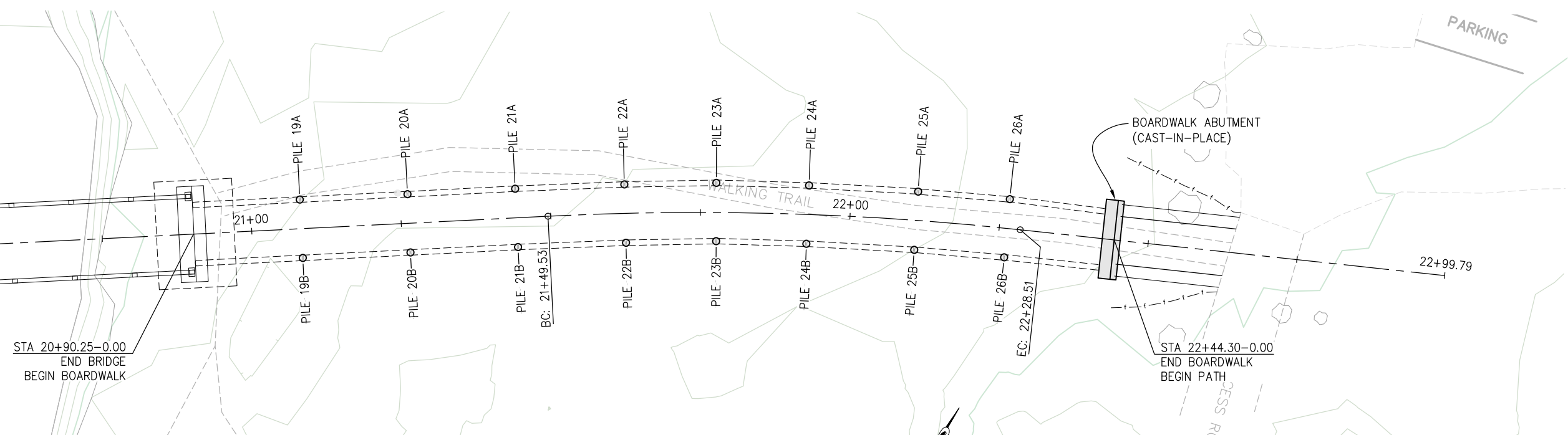
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO
CLASS 1 BIKE TRAIL PROJECT

SHEET
S-7
 21 OF 29
 W.O. No. 95117

ORIGINAL SCALE IS IN INCHES
 Drawing name: Z:\Civil 3D Projects\95117 San Bernardino Cl1 BP\CADD Files\Sheets\S-Sheets.dwg Layout: Tab: S-8 Mar 03,2022 - 11:43am Dharrington
 FOR REDUCED PLANS
 2
 1
 0

STA 20+25.00 SEE S-7



PILE DATA TABLE

BOARDWALK FOUNDATION PLAN

1" = 10'

NOTE: BOARDWALK BEAM LENGTHS VARY. REFER TO PERMATRAK BOARDWALK DRAWINGS FOR BEAM LENGTHS AND LOCATIONS. PILE LOCATIONS SHOWN ARE APPROXIMATE.

LOCATION	PILE TYPE	DESIGN LOADING (KIPS)	ALLOWABLE AXIAL CAPACITY (KIPS)		DESIGN TIP DEPTH (FT)	SPECIFIED TIP DEPTH (FT)
			COMPRESSION	TENSION		
PILE 14A	14" FRP	32.6	42	0	25 (a)	25
PILE 14B	14" FRP	32.6	42	0	25 (a)	25
PILE 15A	14" FRP	32.6	42	0	25 (a)	25
PILE 15B	14" FRP	32.6	42	0	25 (a)	25
PILE 16A	14" FRP	32.6	42	0	25 (a)	25
PILE 16B	14" FRP	32.6	42	0	25 (a)	25
PILE 17A	14" FRP	32.4	42	0	25 (a)	25
PILE 17B	14" FRP	32.4	42	0	25 (a)	25
PILE 18A	14" FRP	36.5	42	0	25 (a)	25
PILE 18B	14" FRP	36.5	42	0	25 (a)	25
PILE 19A	14" FRP	36.0	42	0	25 (a)	25
PILE 19B	14" FRP	36.0	42	0	25 (a)	25
PILE 20A	14" FRP	32.9	42	0	25 (a)	25
PILE 20B	14" FRP	32.9	42	0	25 (a)	25
PILE 21A	14" FRP	34.7	42	0	25 (a)	25
PILE 21B	14" FRP	34.7	42	0	25 (a)	25
PILE 22A	14" FRP	36.0	42	0	25 (a)	25
PILE 22B	14" FRP	35.7	42	0	25 (a)	25
PILE 23A	14" FRP	35.7	42	0	25 (a)	25
PILE 23B	14" FRP	34.8	42	0	25 (a)	25
PILE 24A	14" FRP	35.5	42	0	25 (a)	25
PILE 24B	14" FRP	34.5	42	0	25 (a)	25
PILE 25A	14" FRP	34.4	42	0	25 (a)	25
PILE 25B	14" FRP	33.7	42	0	25 (a)	25
PILE 26A	14" FRP	37.0	42	0	25 (a)	25
PILE 26B	14" FRP	36.5	42	0	25 (a)	25

PILE DATA TABLE NOTES:
 DESIGN TIP DEPTHS ARE CONTROLLED BY: (a) COMPRESSION, (c) SETTLEMENT, (d) LATERAL LOAD
 FRP = FIBER-REINFORCED POLYMER COMPOSITE PILE (APPROX 6" WALL THICKNESS)
 TIP DEPTHS ARE MEASURED FROM THE GROUND ELEVATION
 THE ESTIMATED DOWNDRAG LOAD IS 17 KIPS FOR PILES 21A THROUGH 26B
 NET ULTIMATE PILE CAPACITY = 2.25 x ALLOWABLE AXIAL CAPACITY - DOWNDRAG LOAD
 PILE DATA TABLE BEGINS ON SHEET S-7

NOTE: REFER TO CONTRACT SPECIAL PROVISIONS FOR TEST PILE REQUIREMENTS.

BOARDWALK FOUNDATION PLAN
 SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: 03/04/22

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: MSF
 DATE: 2/7/22
 ROAD NUMBER: -



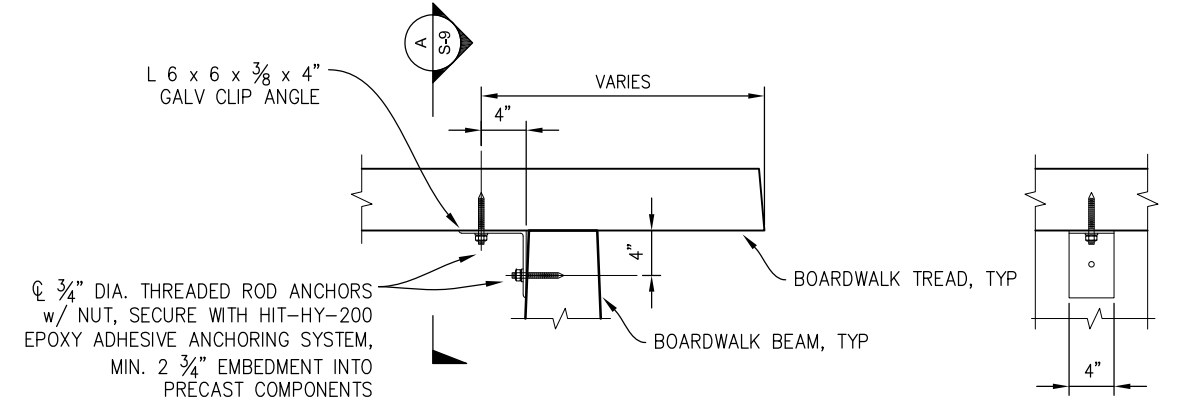
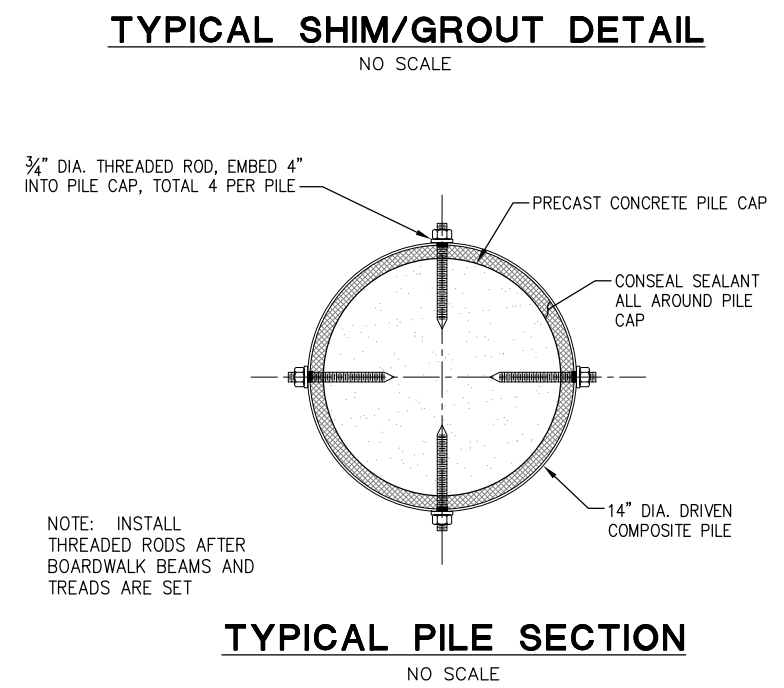
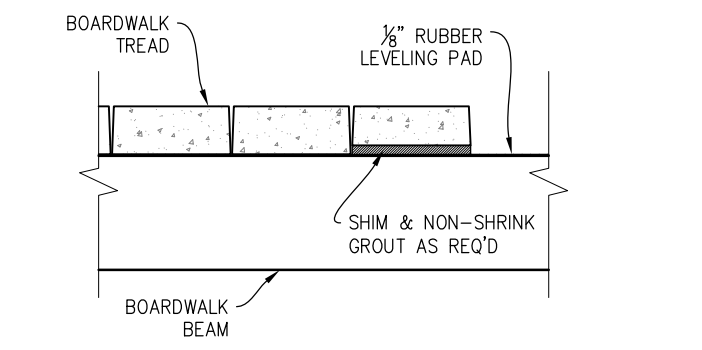
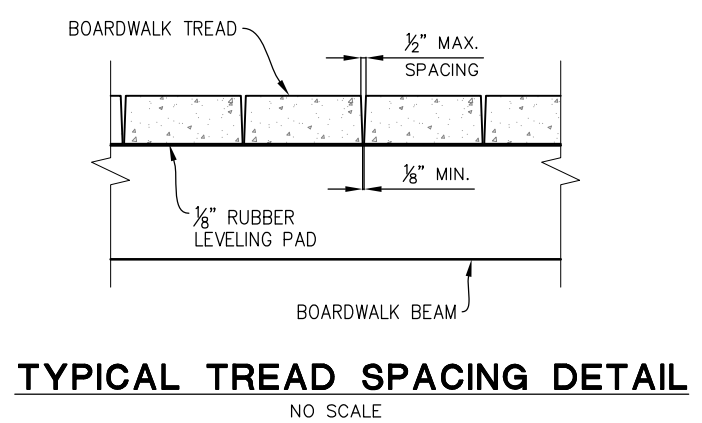
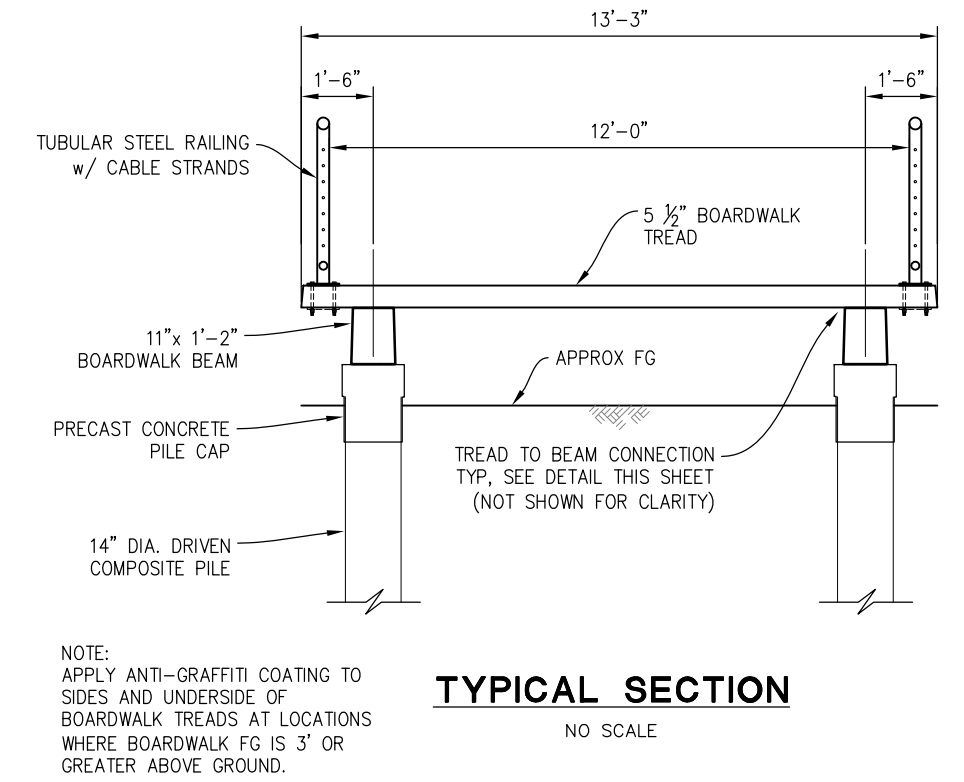
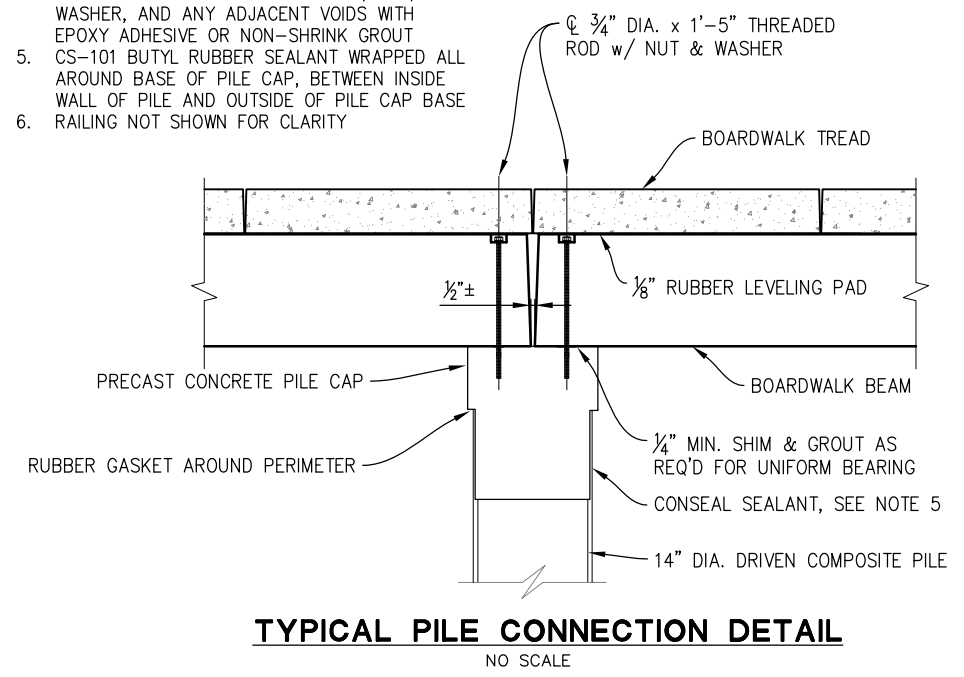
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SAN BERNARDINO
CLASS 1 BIKE TRAIL PROJECT

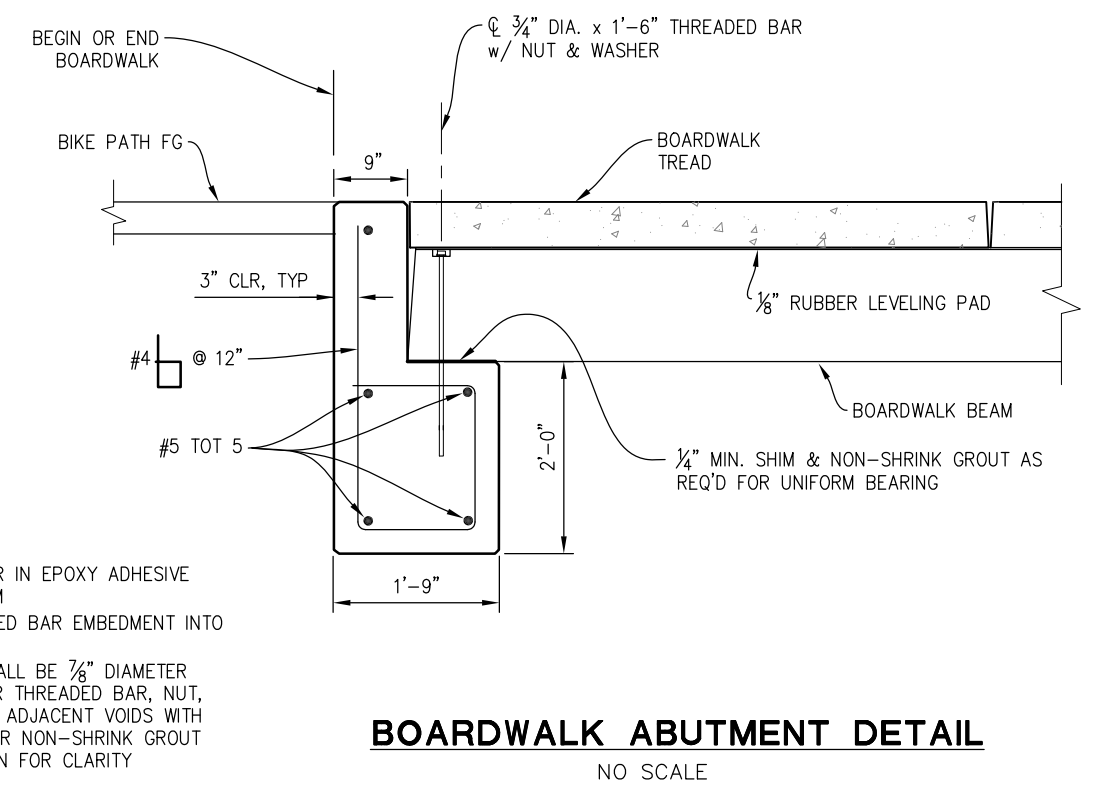
SHEET
S-8
 22 OF 29
 W.O. No. **95117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: Z:\Civil 3D Projects\95117 San Bernardino CL1 BP\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-9 Mar 07, 2022 - 11:51am Dharrington
 FOR REDUCED PLANS

- NOTES:
1. SET THREADED BAR IN EPOXY ADHESIVE ANCHORING SYSTEM
 2. MIN. 3" THREADED BAR EMBEDMENT INTO PILE CAP
 3. DRILLED HOLE SHALL BE 7/8" DIAMETER COMPLETELY COVER THREADED BAR, NUT, WASHER, AND ANY ADJACENT VOIDS WITH EPOXY ADHESIVE OR NON-SHRINK GROUT
 4. COMPLETELY COVER THREADED BAR, NUT, WASHER, AND ANY ADJACENT VOIDS WITH EPOXY ADHESIVE OR NON-SHRINK GROUT
 5. CS-101 BUTYL RUBBER SEALANT WRAPPED ALL AROUND BASE OF PILE CAP, BETWEEN INSIDE WALL OF PILE AND OUTSIDE OF PILE CAP BASE
 6. RAILING NOT SHOWN FOR CLARITY



- NOTES:
1. ALL HOLES TO BE DRILLED BY CONTRACTOR
 2. ONE (1) CLIP ANGLE REQ'D AT EACH END OF EACH TREAD, TWO (2) CLIPS TOTAL PER TREAD
 3. ANCHORS SHALL MEET REQUIREMENTS OF ACI 355.4
 4. INSTALL ANCHORS NO SOONER THAN 14 DAYS AFTER DELIVERY OF PRECAST COMPONENTS



- NOTES:
1. SET THREADED BAR IN EPOXY ADHESIVE ANCHORING SYSTEM
 2. MIN. 3 1/2" THREADED BAR EMBEDMENT INTO ABUTMENT
 3. DRILLED HOLES SHALL BE 7/8" DIAMETER COMPLETELY COVER THREADED BAR, NUT, WASHER, AND ANY ADJACENT VOIDS WITH EPOXY ADHESIVE OR NON-SHRINK GROUT
 4. COMPLETELY COVER THREADED BAR, NUT, WASHER, AND ANY ADJACENT VOIDS WITH EPOXY ADHESIVE OR NON-SHRINK GROUT
 5. RAILING NOT SHOWN FOR CLARITY

BOARDWALK TYPICAL DETAILS
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 03/04/22

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: MSF
 DATE: 3/4/22
 ROAD NUMBER: -

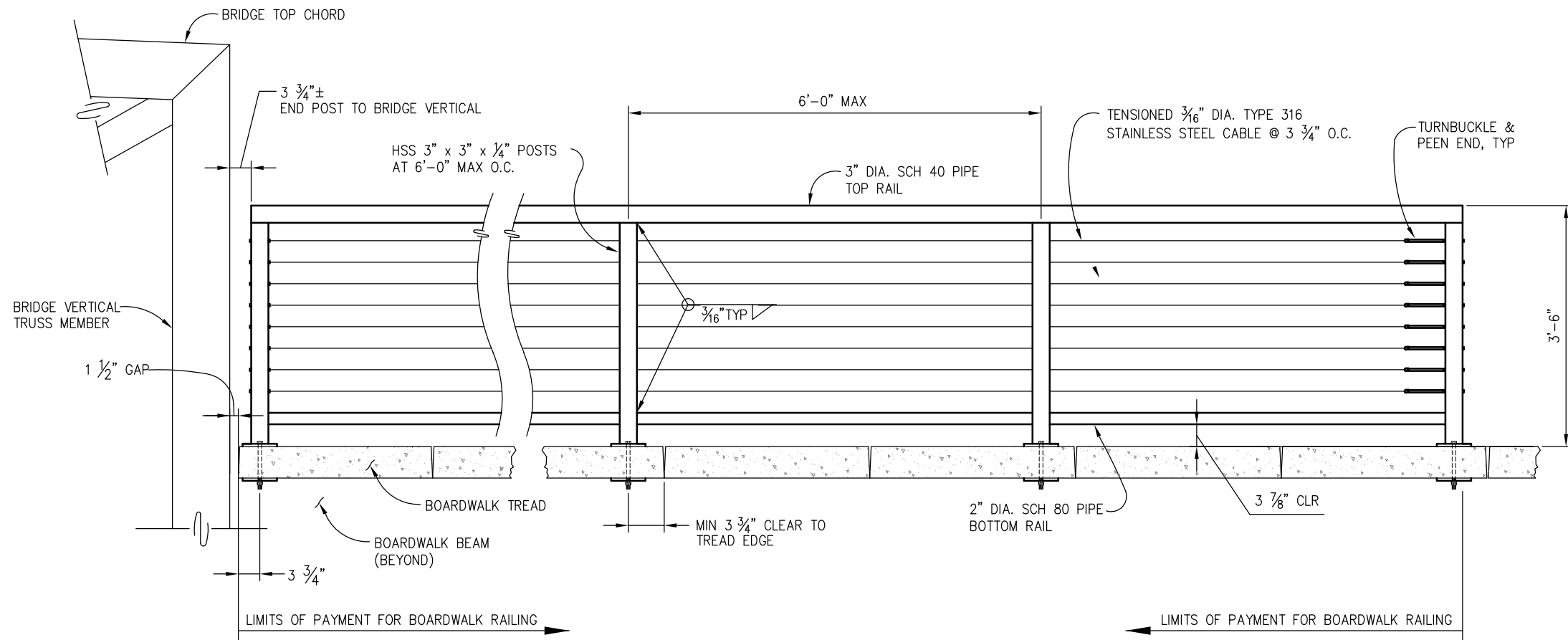


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

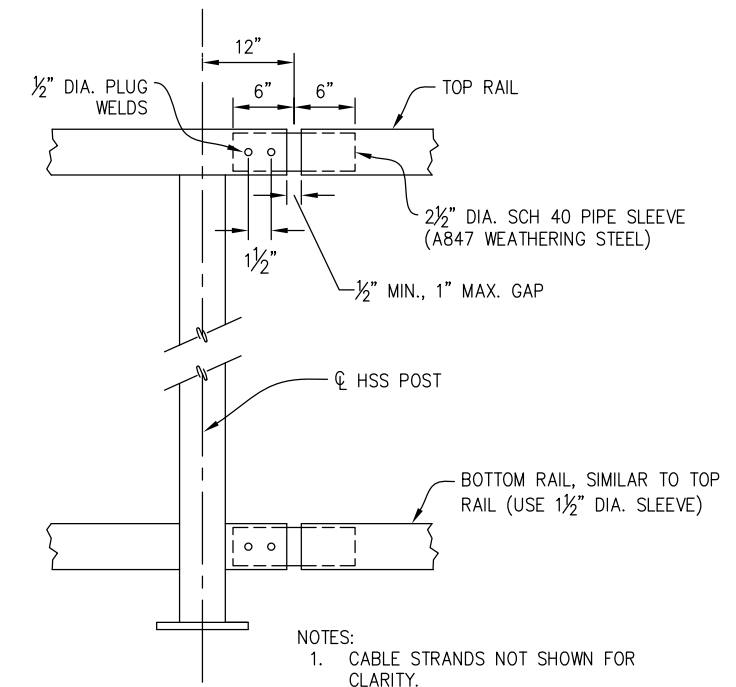
SAN BERNARDINO
CLASS 1 BIKE TRAIL PROJECT

SHEET
S-9
 23 OF 29
 W.O. No. **95117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: Z:\Civil 3D Projects\95117 San Bernardino CL1 BP\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-10 Mar 03, 2022 - 11:45am Dharrington
 FOR REDUCED PLANS
 REVISION

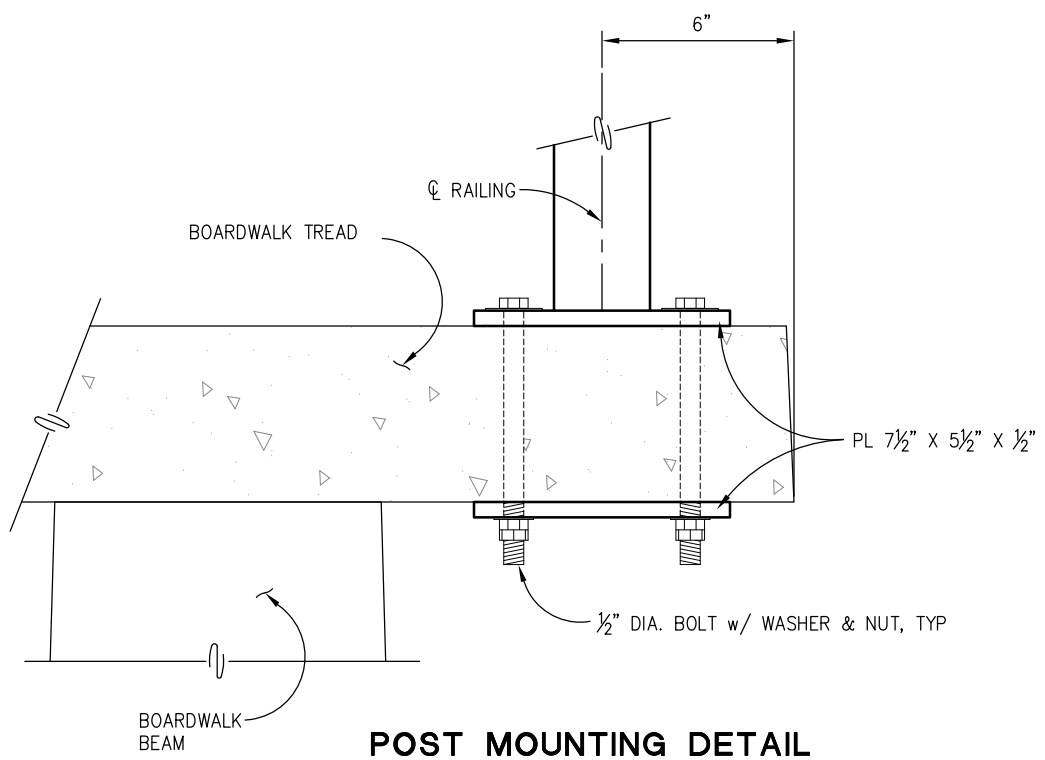


TUBULAR RAILING
1" = 1'-0"

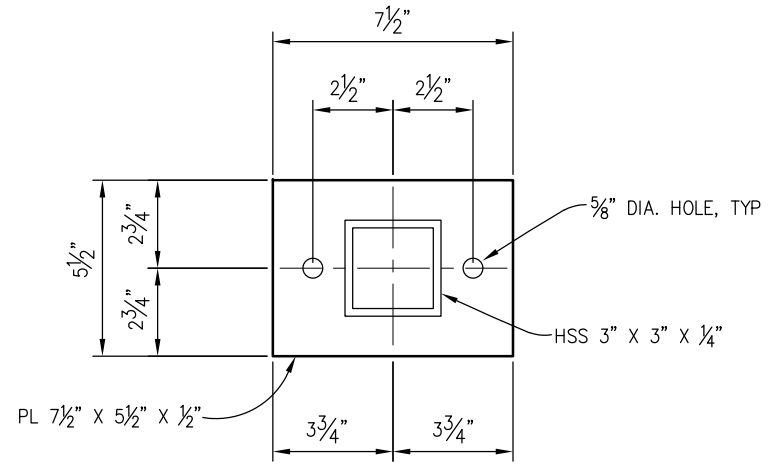


- NOTES:**
1. CABLE STRANDS NOT SHOWN FOR CLARITY.
 2. LOCATE PLUG WELDS ON OUTSIDE FACE OF RAILING.
 3. EXPANSION JOINTS TO BE SPACED EVERY 20-25 FEET, EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

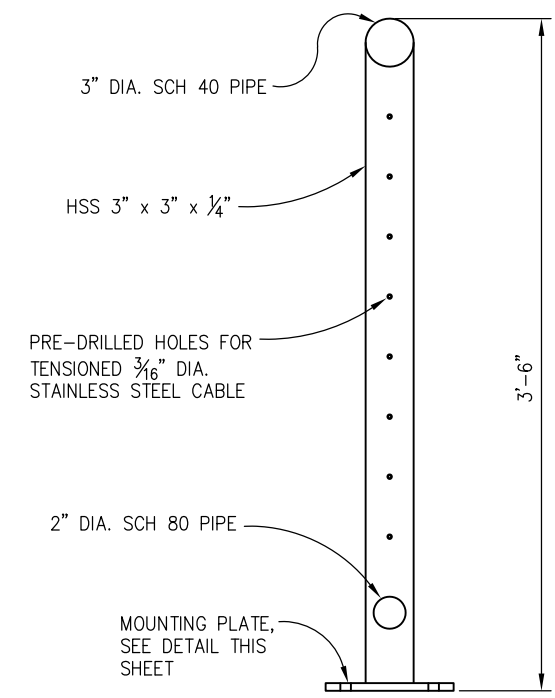
EXPANSION JOINT DETAIL
NO SCALE



POST MOUNTING DETAIL
NO SCALE



MOUNTING PLATE DETAIL
NO SCALE



POST DETAIL
NO SCALE

- NOTES:**
1. ALL HSS POSTS AND PIPE RAILS TO BE A847 WEATHERING STEEL
 2. ALL HARDWARE (BOLTS, WASHERS, NUTS) TO BE ASTM F593 STAINLESS STEEL 18-8
 3. TENSIONED CABLE TO BE 1x19 TYPE 316 STAINLESS STEEL

BOARDWALK RAILING
SCALE : AS SHOWN



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 03/04/22

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: MSF
 DATE: 2/7/22
 ROAD NUMBER: -

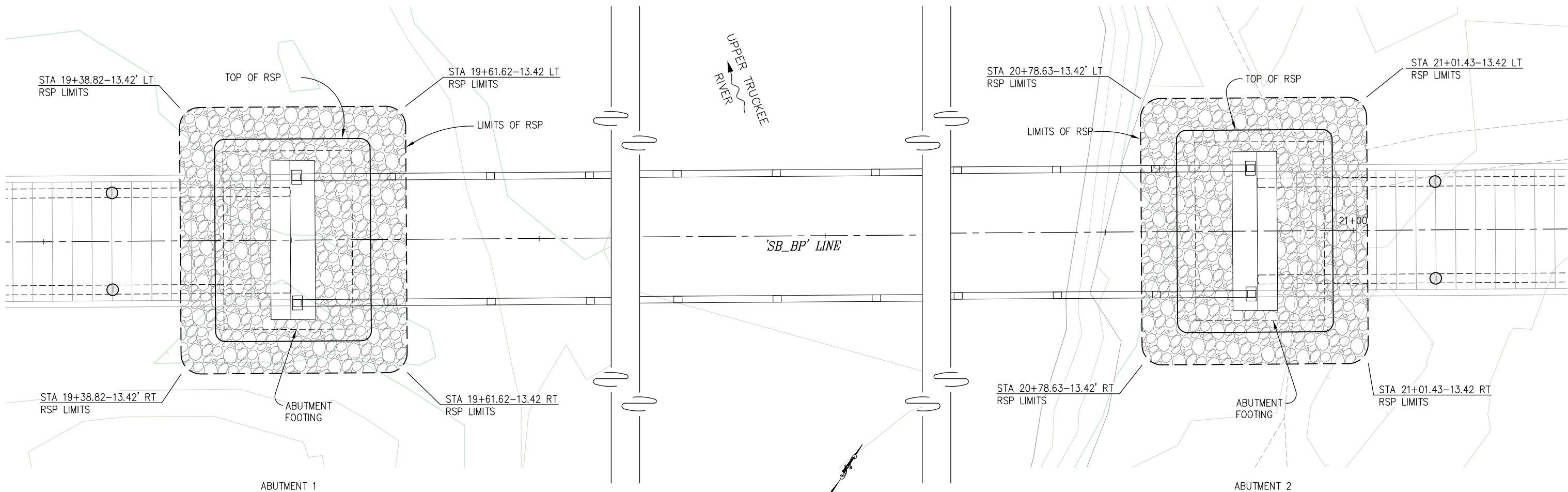


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

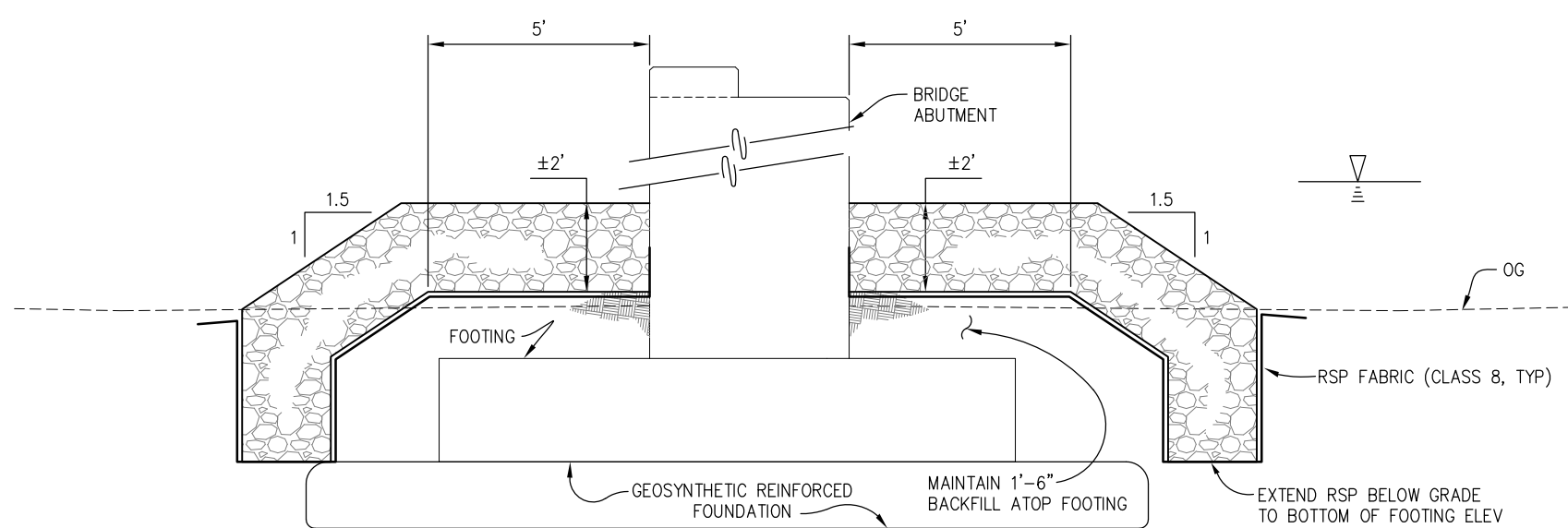
SAN BERNARDINO
CLASS 1 BIKE TRAIL PROJECT

SHEET
S-10
 24 OF 29
 W.O. No. **95117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: Z:\Civil 3D Projects\95117 San Bernardino CL1 BR\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-11 Mar 03, 2022 - 11:45am Dharrington
 FOR REDUCED PLANS
 REVISION



PLAN
1" = 5'



- LEGEND**
- INDICATES LIMITS OF ROCK SLOPE PROTECTION (150 LB, CLASS III, METHOD B)
 - INDICATES 100-YEAR DESIGN WATER SURFACE ELEVATION (6298.20)

ROCK SLOPE PROTECTION
SCALE : AS SHOWN



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: 03/04/22

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: MSF
 DATE: 2/7/22
 ROAD NUMBER: -



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

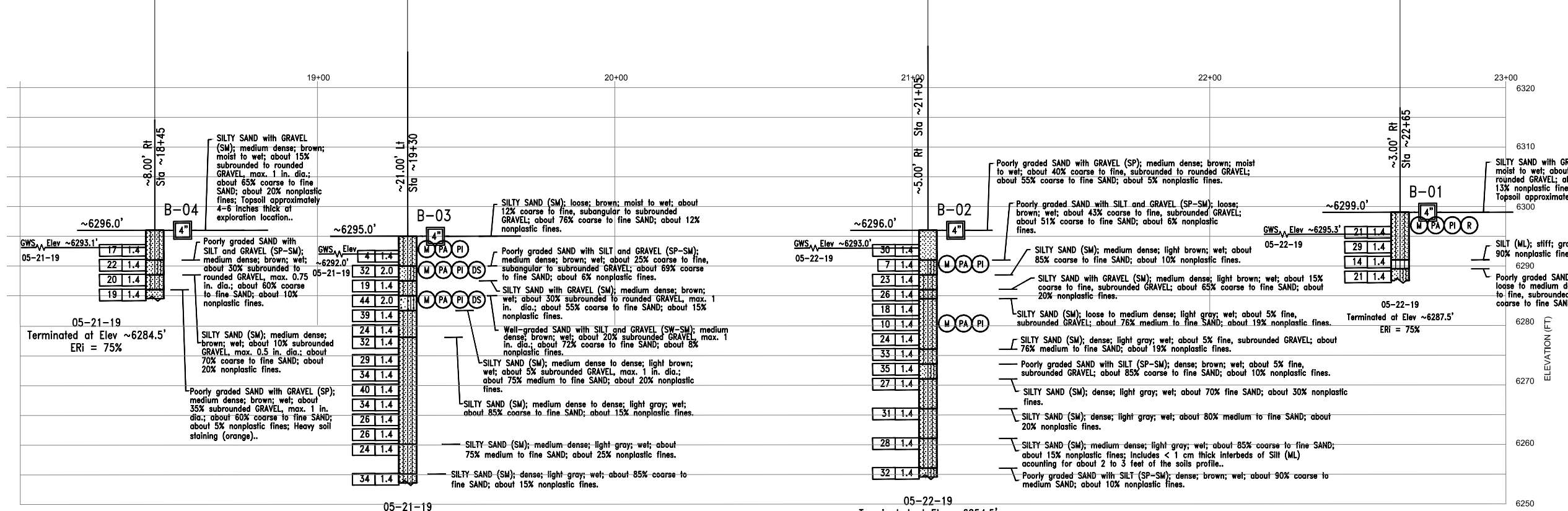
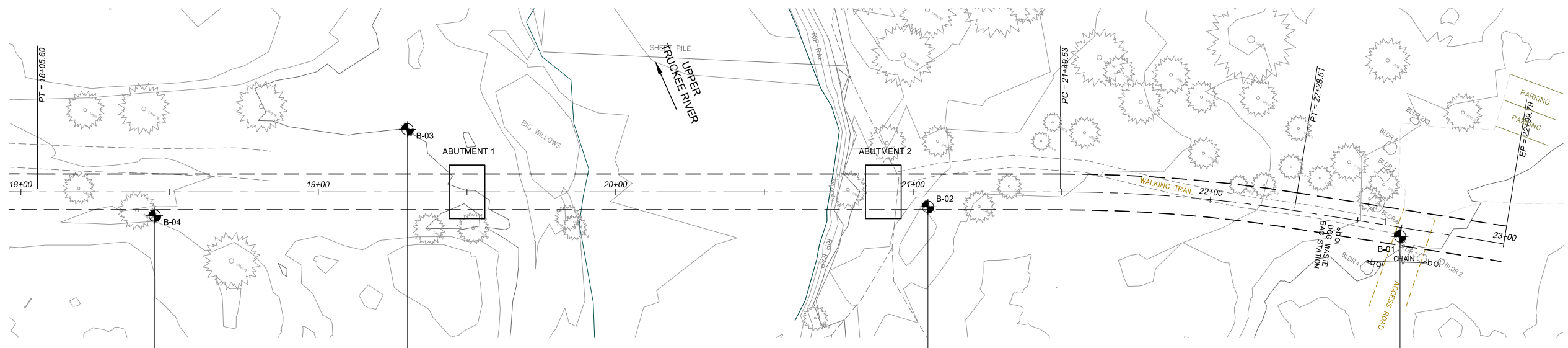
SAN BERNARDINO
CLASS 1 BIKE TRAIL PROJECT

SHEET
S-11
25 OF 29
W.O. No. **95117**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
3	ED	N/A	N/A	26	29
REGISTERED CIVIL ENGINEER <i>Pandey</i>			DATE	9-30-2021	
PLANS APPROVAL DATE 3/4/2022			REGISTERED PROFESSIONAL ENGINEER PANCHAJINGAM V. JAYAKA No. 73484 Exp. 12-31-2022 CIVIL STATE OF CALIFORNIA		
Corstons Engineering, Inc. 10751 Graylake Dr. Reno, Nevada 89521 775-636-5916					

- NOTES**
- FIELD CLASSIFICATION OF SOILS WAS IN ACCORDANCE WITH THE CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010). SEE LOG OF TEST BORINGS NO. 2, "SOILS LEGEND".
 - STANDARD PENETRATION TESTS WERE PERFORMED IN ACCORDANCE WITH ASTM D 1586-99 USING A HAMMER OPERATED WITH AN AUTOMATED DROP SYSTEM. DRILL RODS WERE 1.58-INCH DIAMETER "A"-RODS; SAMPLER WAS DRIVEN WITH STEEL LINERS.
 - 7.4 INCH SAMPLER: ID=2.4 INCH, OD=2.9 INCH, DRIVEN IN SAME MANNER AS SPT ("1.4 INCH") SAMPLER.
 - IF LABORATORY TESTS ARE NOT SHOWN AS BEING PERFORMED, THE SOIL DESCRIPTIONS PRESENTED ON THE LOGS ARE BASED SOLELY ON THE VISUAL PRACTICES DESCRIBED IN THIS MANUAL.
 - THE LENGTH OF EACH SAMPLED INTERVAL IS SHOWN GRAPHICALLY ON THE BORING LOG. WHOLE NUMBER BLOW COUNTS ("N") REPRESENT THE "STANDARD PENETRATION RESISTANCE" INTERVAL IN ACCORDANCE WITH THE CALTRANS SOIL & LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (JUNE 2010).
 - CONSISTENCY OF SOILS SHOWN IN () WHERE ESTIMATED.
 - GROUNDWATER SURFACE (GWS) ELEVATIONS IN THE BORINGS INDICATED ON THE LOG OF TEST BORING SHEETS REFLECT THE FLUID LEVEL IN THE BORINGS ON THE SPECIFIED DATE.
 - GROUNDWATER ELEVATIONS ARE SUBJECT TO SEASONAL FLUCTUATIONS AND MAY OCCUR AT HIGHER OR LOWER ELEVATIONS DEPENDING ON THE CONDITIONS AT ANY PARTICULAR TIME.
 - BORING LOCATIONS WERE MEASURED IN THE FIELD WITH RESPECT TO EXISTING FEATURES THEN CORRELATED TO THE TOPOGRAPHIC SURVEY DRAWING PROVIDED BY COUNTY OF EL DORADO.
 - EXISTING GROUND PROFILE & PROPOSED GRADE AT CENTERLINE WERE BASED ON THE PROJECT PLANS PROVIDED BY COUNTY OF EL DORADO.

PLAN AND PROFILE
 SCALE: HORIZ. 1" = 20'
 VERT. 1" = 5'



ELEVATION (FT)

SHEET S-12

VIMAL P. VIMALARAJ, P.E. G.E. DESIGN OVERSIGHT	DRAWN BY SEAN MCMICKEN	JONATHAN PAYNE FIELD INVESTIGATION BY:	ENGINEERING SERVICES GEOTECHNICAL SERVICES	PREPARED FOR THE COUNTY OF EL DORADO DEPARTMENT OF PUBLIC WORKS	DIVISION OF ENGINEERING DESIGN BRANCH	BRIDGE NO.	SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
SIGN OFF DATE	CHECKED BY VIMAL P. VIMALARAJ, P.E. G.E.	DATE: 05-21-2019 & 05-22-2019				POST MILES	

LOG OF TEST BORINGS 1

GS CIVIL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 03/14/12)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: PROJECT NUMBER & PHASE: ENGLISH 5012-02-1	CONTRACT NO.:	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 26 OF 29
--	--	---	---------------	---	----------------	----------------

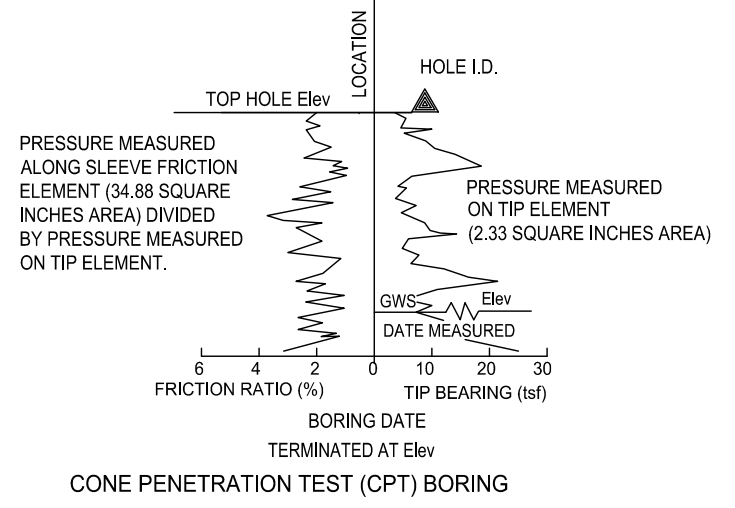
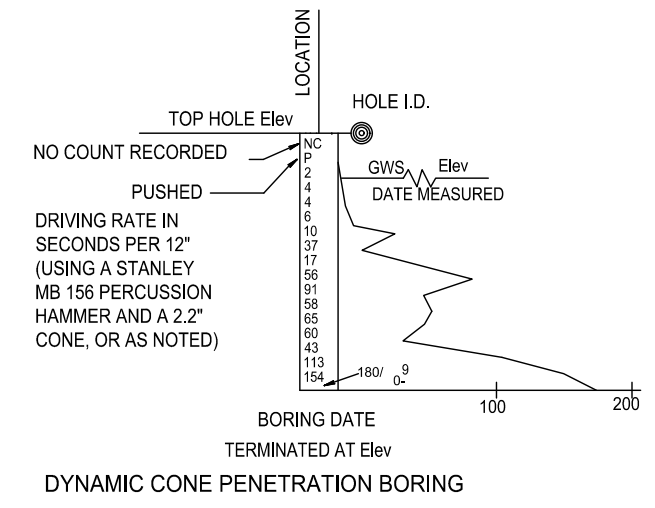
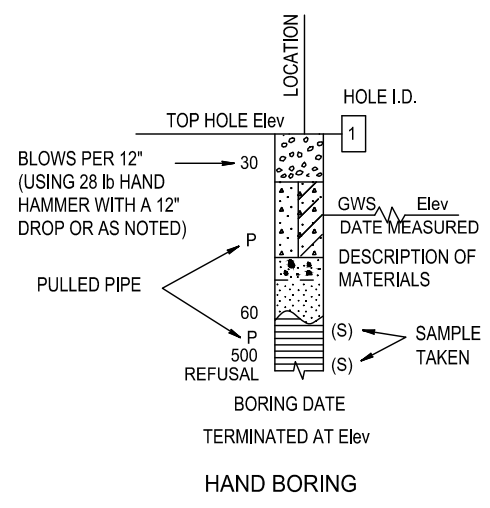
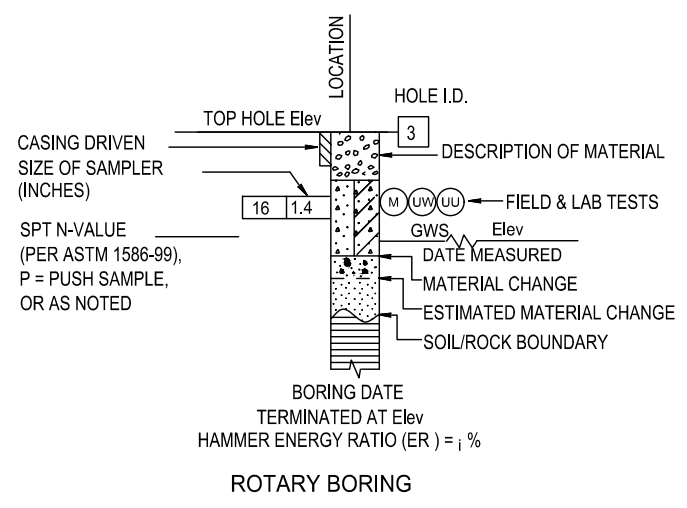
CEMENTATION	
DESCRIPTION	CRITERIA
WEAK	CRUMBLES OR BREAKS WITH HANDLING OR LITTLE FINGER PRESSURE.
MODERATE	CRUMBLES OR BREAKS WITH CONSIDERABLE FINGER PRESSURE.
STRONG	WILL NOT CRUMBLE OR BREAK WITH FINGER PRESSURE.

GWS = Ground Water Surface

BOREHOLE IDENTIFICATION		
SYMBOL	HOLE TYPE	DESCRIPTION
	A	AUGER BORING (HOLLOW OR SOLID STEM BUCKET)
	R	ROTARY DRILLED BORING (CONVENTIONAL)
	RW	ROTARY DRILLED WITH SELF-CASING WIRE-LINE
	RC	ROTARY CORE WITH CONTINUOUSLY-SAMPLED, SELF-CASING WIRE-LINE
	P	ROTARY PERCUSSION BORING (AIR)
	R	ROTARY DRILLED DIAMOND CORE
	RC	ROTARY DRILLED DIAMOND CORE, CONTINUOUSLY SAMPLED
	HD	HAND DRIVEN (1-INCH SOIL TUBE)
	HA	HAND AUGER
	D	DYNAMIC CONE PENETRATION BORING
	CPT	CONE PENETRATION TEST (ASTM D 5778)
	O	OTHER (NOTE ON LOTB)



Note: Size in inches.
































CONSISTENCY OF COHESIVE SOILS				
DESCRIPTION	SHEAR STRENGTH (tsf)	POCKET PENETROMETER MEASUREMENT, PP, (tsf)	TORVANE MEASUREMENT, TV, (tsf)	VANE SHEAR MEASUREMENT, VS, (tsf)
VERY SOFT	LESS THAN 0.12	LESS THAN 0.25	LESS THAN 0.12	LESS THAN 0.12
SOFT	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
MEDIUM STIFF	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
STIFF	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
VERY STIFF	1 - 2	2 - 4	1 - 2	1 - 2
HARD	GREATER THAN 2	GREATER THAN 4	GREATER THAN 2	GREATER THAN 2



SHEET S-13

VIMAL P. VIMALARAJ, P.E. G.E. DESIGN OVERSIGHT	DRAWN BY SEAN MCMICKEN	JONATHAN PAYNE FIELD INVESTIGATION BY: DATE: 05-21-2-19 & 05-22-2019	ENGINEERING SERVICES GEOTECHNICAL SERVICES	PREPARED FOR THE COUNTY OF ELDORADO DEPARTMENT OF PUBLIC WORKS	DIVISION OF ENGINEERING DESIGN BRANCH	BRIDGE NO. POST MILES	SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT LOG OF TEST BORINGS 2
SIGN OFF DATE	CHECKED BY VIMAL P. VIMALARAJ, P.E. G.E.						

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
3	ED	N/A	N/A	28	29
 REGISTERED CIVIL ENGINEER			9-30-2021	DATE	
3/4/2022 PLANS APPROVAL DATE					
Corestone Engineering, Inc. 10751 Grayslake Dr. Reno, Nevada 89521 775-636-5916					

GROUP SYMBOLS AND NAMES					
GRAPHIC/SYMBOL	GROUP NAMES	GRAPHIC/SYMBOL	GROUP NAMES	GRAPHIC/SYMBOL	GROUP NAMES
	GW WELL-GRADED GRAVEL WELL-GRADED GRAVEL WITH SAND		CL LEAN CLAY LEAN CLAY WITH SAND LEAN CLAY WITH GRAVEL SANDY LEAN CLAY SANDY LEAN CLAY WITH GRAVEL GRAVELLY LEAN CLAY GRAVELLY LEAN CLAY WITH SAND		
	GP POORLY-GRADED GRAVEL POORLY-GRADED GRAVEL WITH SAND		CL-ML SILTY CLAY SILTY CLAY WITH SAND SILTY CLAY WITH GRAVEL SANDY SILTY CLAY SANDY SILTY CLAY WITH GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY WITH SAND		
	GW-GM WELL-GRADED GRAVEL WITH SILT WELL-GRADED GRAVEL WITH SILT AND SAND		ML SILT SILT WITH SAND SILT WITH GRAVEL SANDY SILT SANDY SILT WITH GRAVEL GRAVELLY SILT GRAVELLY SILT WITH SAND		
	GW-GC WELL-GRADED GRAVEL WITH CLAY (OR SILTY CLAY) WELL-GRADED GRAVEL WITH CLAY AND SAND (OR SILTY CLAY AND SAND)		OL ORGANIC LEAN CLAY ORGANIC LEAN CLAY WITH SAND ORGANIC LEAN CLAY WITH GRAVEL SANDY ORGANIC LEAN CLAY SANDY ORGANIC LEAN CLAY WITH GRAVEL GRAVELLY ORGANIC LEAN CLAY GRAVELLY ORGANIC LEAN CLAY WITH SAND		
	GP-GM POORLY-GRADED GRAVEL WITH SILT POORLY-GRADED GRAVEL WITH SILT AND SAND		OL ORGANIC SILT ORGANIC SILT WITH SAND ORGANIC SILT WITH GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT WITH GRAVEL GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT WITH SAND		
	GP-GC POORLY-GRADED GRAVEL WITH CLAY (OR SILTY CLAY) POORLY-GRADED GRAVEL WITH CLAY AND SAND (OR SILTY CLAY AND SAND)		CH FAT CLAY FAT CLAY WITH SAND FAT CLAY WITH GRAVEL SANDY FAT CLAY SANDY FAT CLAY WITH GRAVEL GRAVELLY FAT CLAY GRAVELLY FAT CLAY WITH SAND		
	GM SILTY GRAVEL SILTY GRAVEL WITH SAND		MH ELASTIC SILT ELASTIC SILT WITH SAND ELASTIC SILT WITH GRAVEL SANDY ELASTIC SILT SANDY ELASTIC SILT WITH GRAVEL GRAVELLY ELASTIC SILT GRAVELLY ELASTIC SILT WITH SAND		
	GC CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND		OH ORGANIC FAT CLAY ORGANIC FAT CLAY WITH SAND ORGANIC FAT CLAY WITH GRAVEL SANDY ORGANIC FAT CLAY SANDY ORGANIC FAT CLAY WITH GRAVEL GRAVELLY ORGANIC FAT CLAY GRAVELLY ORGANIC FAT CLAY WITH SAND		
	GC-GM SILTY, CLAYEY GRAVEL SILTY, CLAYEY GRAVEL WITH SAND		OH ORGANIC ELASTIC SILT ORGANIC ELASTIC SILT WITH SAND ORGANIC ELASTIC SILT WITH GRAVEL SANDY ORGANIC ELASTIC SILT SANDY ORGANIC ELASTIC SILT WITH GRAVEL GRAVELLY ORGANIC ELASTIC SILT GRAVELLY ORGANIC ELASTIC SILT WITH SAND		
	SW WELL-GRADED SAND WELL-GRADED SAND WITH GRAVEL		OL/OH ORGANIC SOIL ORGANIC SOIL WITH SAND ORGANIC SOIL WITH GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL WITH GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL WITH SAND		
	SP POORLY-GRADED SAND POORLY-GRADED SAND WITH GRAVEL				
	SW-SM WELL-GRADED SAND WITH SILT WELL-GRADED SAND WITH SILT AND GRAVEL				
	SW-SC WELL-GRADED SAND WITH CLAY (OR SILTY CLAY) WELL-GRADED SAND WITH CLAY AND GRAVEL (OR SILTY CLAY AND GRAVEL)				
	SP-SM POORLY-GRADED SAND WITH SILT POORLY-GRADED SAND WITH SILT AND GRAVEL				
	SP-SC POORLY-GRADED SAND WITH CLAY (OR SILTY CLAY) POORLY-GRADED SAND WITH CLAY AND GRAVEL (OR SILTY CLAY AND GRAVEL)				
	SM SILTY SAND SILTY SAND WITH GRAVEL				
	SC CLAYEY SAND CLAYEY SAND WITH GRAVEL				
	SC-SM SILTY, CLAYEY SAND SILTY, CLAYEY SAND WITH GRAVEL				
	PT PEAT				
	COBBLES COBBLES AND BOULDERS BOULDERS				

FIELD AND LABORATORY TESTING	
(C)	CONSOLIDATION (ASTM D2435)
(CL)	COLLAPSE POTENTIAL (ASTM D4546)
(GP)	COMPACTION CURVE (CTM 216)
(CR)	CORROSION TESTING (CTM 643, CTM 422, CTM 417)
(CU)	CONSOLIDATED UNDRAINED TRIAXIAL (ASTM D4767)
(DS)	DIRECT SHEAR (ASTM D3080)
(EI)	EXPANSION INDEX (ASTM D4829)
(M)	MOISTURE CONTENT (ASTM D2216)
(OC)	ORGANIC CONTENT-% (ASTM D2974)
(P)	PERMEABILITY (CTM 220)
(PA)	PARTICLE SIZE ANALYSIS (ASTM D422)
(PI)	PLASTICITY INDEX (AASHTO T 90) LIQUID LIMIT (AASHTO T 89)
(PL)	POINT LOAD INDEX (ASTM D5731)
(PM)	PRESSURE METER
(R)	R-VALUE (CTM 301)
(SE)	SAND EQUIVALENT (CTM 217)
(SG)	SPECIFIC GRAVITY (AASHTO T 100)
(SL)	SHRINKAGE LIMIT (ASTM D4943)
(SW)	SWELL POTENTIAL (ASTM D4546)
(UC)	UNCONFINED COMPRESSION-SOIL (ASTM D2166) UNCONFINED COMPRESSION-ROCK (ASTM D7012 - METHOD C)
(UU)	UNCONSOLIDATED UNDRAINED TRIAXIAL (ASTM D2850)
(UW)	UNIT WEIGHT (ASTM D7263 - METHOD B)

APPARENT DENSITY OF COHESIONLESS SOILS	
DESCRIPTION	SPT N (BLOWS / 12 INCHES)
VERY LOOSE	0 - 5
LOOSE	5 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 50
VERY DENSE	GREATER THAN 50

MOISTURE	
DESCRIPTION	CRITERIA
DRY	NO DISCERNABLE MOISTURE
MOIST	MOISTURE PRESENT, BUT NO FREE WATER
WET	VISIBLE FREE WATER

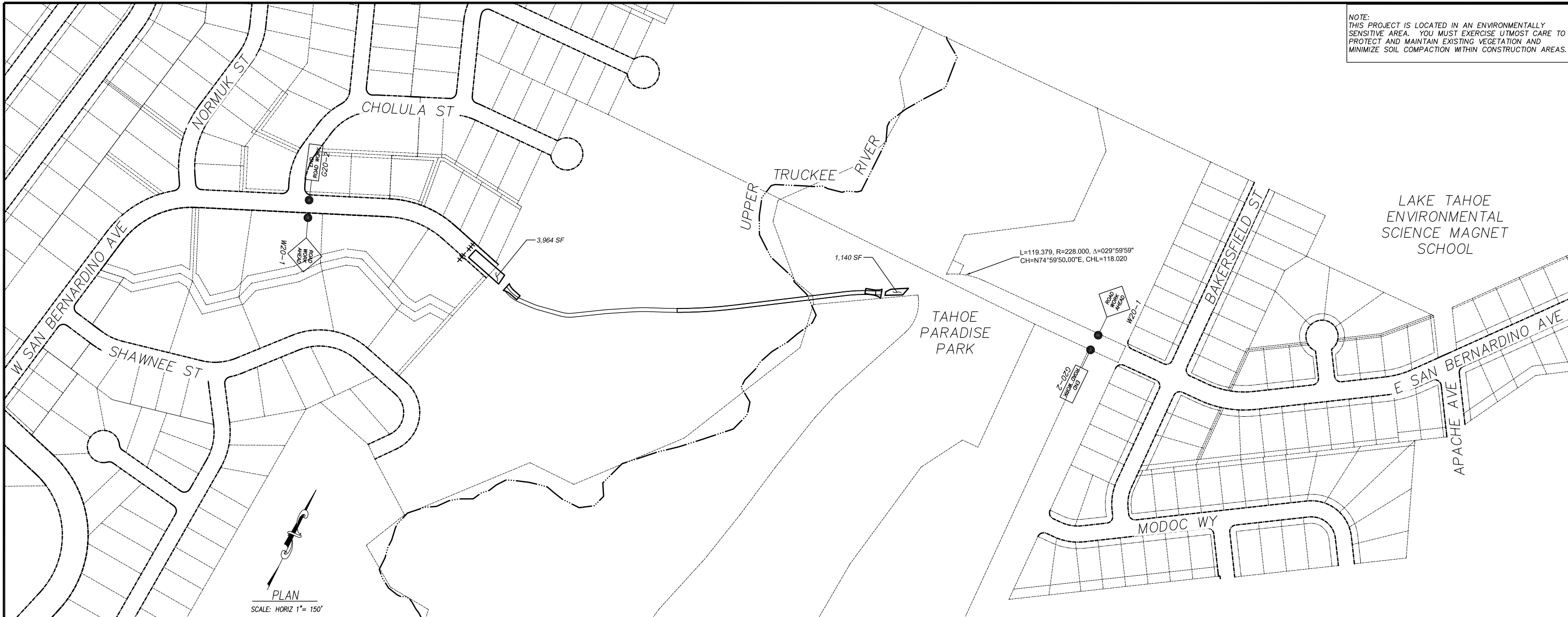
PERCENT OR PROPORTION OF SOILS	
DESCRIPTION	CRITERIA
TRACE	PARTICLES ARE PRESENT BUT ESTIMATED TO BE LESS THAN 5%
FEW	5% - 10%
LITTLE	15% - 25%
SOME	30% - 45%
MOSTLY	50% - 100%

PARTICLE SIZE		
DESCRIPTION	SIZE	
BOULDER	GREATER THAN 12"	
COBBLE	3" - 12"	
GRAVEL	COARSE	3/4" - 3"
	FINE	1/5" - 3/4"
SAND	COARSE	1/16" - 1/5"
	MEDIUM	1/64" - 1/16"
	FINE	1/300" - 1/64"
SILT AND CLAY	LESS THAN 1/300"	

SHEET S-14

VIMAL P. VIMALARAJ, P.E. G.E. DESIGN OVERSIGHT	DRAWN BY SEAN MCMICKEN	JONATHAN PAYNE FIELD INVESTIGATION BY: DATE: 05-21-2019 & 05-22-2019	ENGINEERING SERVICES GEOTECHNICAL SERVICES	PREPARED FOR THE COUNTY OF ELDORADO DEPARTMENT OF PUBLIC WORKS	DIVISION OF ENGINEERING DESIGN BRANCH	BRIDGE NO. POST MILES	SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT		
SIGN OFF DATE	CHECKED BY VIMAL P. VIMALARAJ, P.E. G.E.						LOG OF TEST BORINGS 3		
GS CIVIL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 03/14/12)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: PROJECT NUMBER & PHASE: FILE => \$REQUEST	ENGLISH 5012-02-1	CONTRACT NO.:	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
							REVISION DATES	SHEET 28	OF 29

NOTE:
THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.



LEGEND

- PROPOSED STAGING AREA WITH SF
- APPROXIMATE SIGN LOCATION
- "END ROAD WORK" SIGN
- "ROAD WORK AHEAD" SIGN
- TRAFFIC BARRICADE

NOTES:

1. THIS PLAN HAS BEEN PREPARED AS A GUIDE FOR YOU IN PREPARATION OF A COMPLETE TRAFFIC CONTROL PLAN AND TO AID IN YOUR PLANNING FOR STAGING/STORAGE OF MATERIALS AND EQUIPMENT. YOUR TRAFFIC CONTROL PLAN WILL INCLUDE DETAILED CONTROLS INCLUDING FLAGGERS, LANE CLOSURES, AND SIGNS FOR ALL ITEMS OF ROAD WORK WHICH WILL REQUIRE ALTERATION OF EXISTING TRAFFIC PATTERNS. THE LEGEND SHOWS THE LIST OF SIGNS TO BE REQUIRED AS A MINIMUM.
2. YOUR TRAFFIC CONTROL PLAN WILL ADDRESS EACH PHASE OF CONSTRUCTION (e.g. PIPE PLACEMENT, STRUCTURES ADJACENT TO AND/OR AFFECTING THE ROADWAY, ETC.) AND WILL CONFORM TO PART 6 OF THE CALIFORNIA MUTCD ENTITLED "TEMPORARY TRAFFIC CONTROL" AND THE SPECIAL PROVISIONS. YOUR TRAFFIC CONTROL PLAN WILL ALSO INCLUDE ALL SIGNING REQUIRED AT INTERSECTING STREETS WITHIN THE AREA THAT WILL REQUIRE TRAFFIC CONTROL.
3. WHEN LANE CLOSURES ARE REMOVED AND ROADS ARE OPEN TO PUBLIC TRAFFIC, ALL DRIVEWAYS WITHIN THE WORK AREA WILL BE ACCESSIBLE AND OPERATIONAL.
4. YOU WILL NOT EXCAVATE MORE THAN CAN BE INSTALLED AND BACKFILLED IN ONE WORKING DAY.
5. YOUR ATTENTION IS DIRECTED TO THE SWPPP, TEMPORARY EROSION CONTROL SHEETS, REVEGETATION PLAN SHEET, AND THE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL REQUIREMENTS FOR STAGING AREAS.
6. STAGING AREAS SHOWN ARE FOR THE TEMPORARY STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT WHICH ARE TO BE USED ON THIS PROJECT.

Drawing name: \\G:\data\2022\22-0335\22-0335-01\Engineering\2022\22-0335\22-0335-01\22-0335-01.dwg
ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
REGISTERED CIVIL ENGINEER
MARCH 04, 2022
DATE:

DESIGNED: KIS
DRAWN: KIS
CHECKED: DSP
DATE: 02/2022
ROAD NUMBER: ---



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**SAN BERNARDINO CLASS 1 BIKE TRAIL PROJECT
TRAFFIC CONTROL PLAN**

SHEET
T-1
29 OF 29
CONTRACT NO.
5971
DIP No.
95117