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10	D–1	DRAINAGE PLAN AND PROFILE
11–13	E–1 THRU E–3	LIGHTING PLAN (BRIDGE)
14	CS–1	CONSTRUCTION AREA SIGNS
15–18	SPD–1 THRU SPD–4	PAVEMENT & SIGN DELINEATION
19–23	RW–1 THRU RW–5	RETAINING WALL
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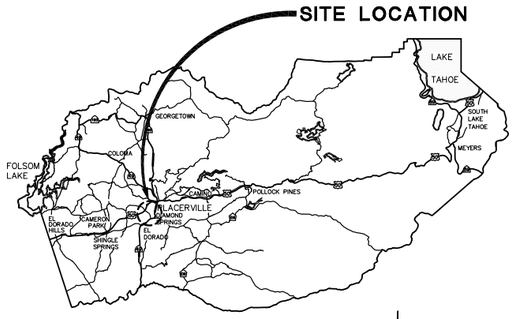
COUNTY OF EL DORADO, CA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR THE CONSTRUCTION OF

EL DORADO TRAIL – MISSOURI FLAT ROAD BIKE/PEDESTRIAN OVERCROSSING PHASE 2

IN THE COUNTY OF EL DORADO, DISTRICT III

To be supplemented with Standard Plans and Specifications dated 2022, including the 2022 Revised Standard Specifications, of the California Department of Transportation, unless otherwise noted.



VICINITY MAP
COUNTY OF EL DORADO

SITE PLAN
NOT TO SCALE

CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Act (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. Failure of the successful Bidder to obtain proper and adequate licensing at the time bids are submitted shall constitute a failure to execute the Contract, and forfeiture as provided under that section.

REVISIONS

MARK	DATE	BY

EL DORADO COUNTY CALIFORNIA

FEDERAL AID PROJECT
CML 5925 (132)

REGISTERED PROFESSIONAL ENGINEER
DUSTIN W. HARRINGTON
No. C71517
License Expires 12-31-25
CIVIL
STATE OF CALIFORNIA

SUBMITTED BY: DUSTIN W. HARRINGTON
REGISTERED CIVIL ENGINEER No. 71517
4/9/2024 DATE

BOARD OF SUPERVISORS

JOHN HIDAHL	I
GEORGE TURNBOO	II
WENDY THOMAS	III
LORI PARLIN	IV
BROOKE LAINE	V

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION
(530) 621-5900
2850 FAIRLANE CT
PLACERVILLE, CA 95667

ADOPTED AND APPROVED BY:
WENDY THOMAS
CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS
DATE

APPROVED BY:
RAFAEL MARTINEZ, DIRECTOR
DEPARTMENT OF TRANSPORTATION
DATE

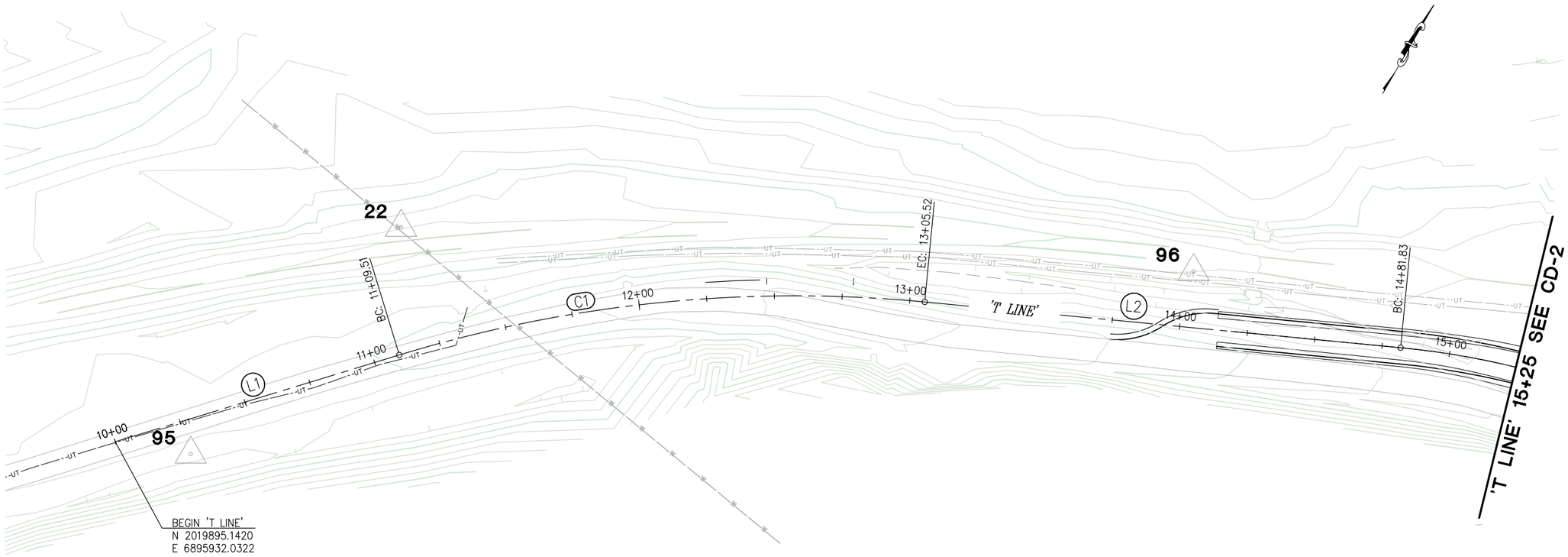
MATTHEW D. SMELTZER
DEPUTY DIRECTOR, ENGINEERING
DATE

CONTRACT NO. 8144 | PROJECT NO. 97015

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2
TITLE SHEET

SHEET 1 OF 42

Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\Title.dwg Layout Tab: Title Mar 25,2024 - 1:42pm DHarrington



LEGEND:

X △ DENOTES CONTROL POINT AND NUMBER.

T LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	109.51		N 43° 01' 09" E	
C1	196.01	500.00	N 54° 14' 59" E – 194.76	22° 27' 40"
L2	176.31		N 65° 28' 49" E	

SURVEY CONTROL DIAGRAM
SCALE : 1" = 20'

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\CD Sheets.dwg Layout Tab: CD-1 Jan 19,2024 - 8:06pm DHarrington

0 1 2
FOR REDUCED PLANS

REVISION				
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE: 1/23/2024

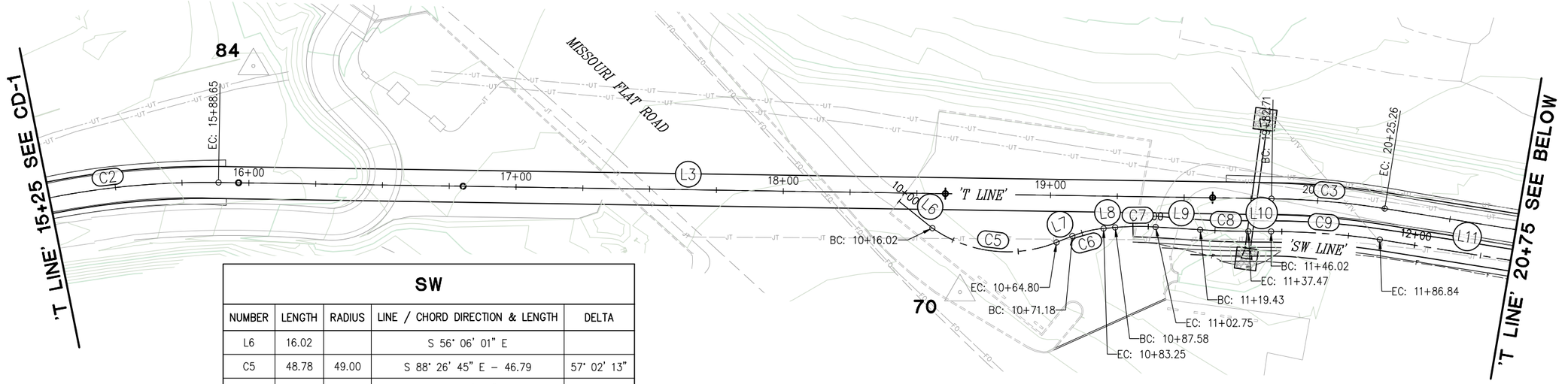
DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	4/30/2021
ROAD NUMBER:	
--	

EL DORADO COUNTY — CALIFORNIA

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET
CD-1
2 OF 42
W.O. No. **97015**

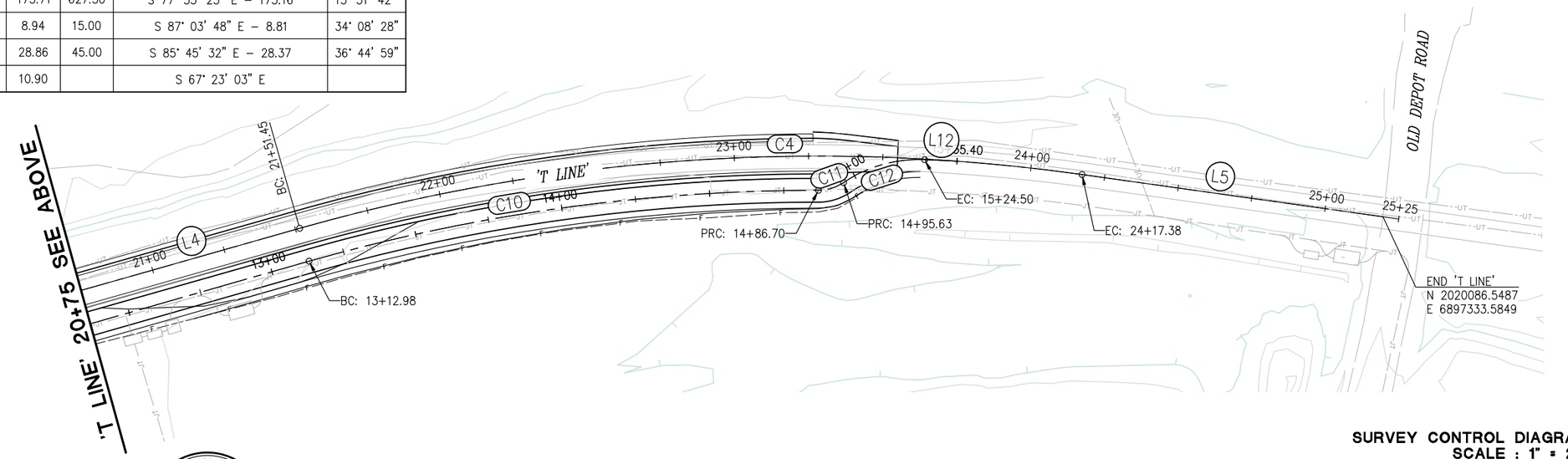


SW				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L6	16.02		S 56° 06' 01" E	
C5	48.78	49.00	S 88° 26' 45" E – 46.79	57° 02' 13"
L7	6.38		N 63° 02' 08" E	
C6	12.06	41.00	N 71° 27' 56" E – 12.02	16° 51' 35"
L8	4.33		N 79° 56' 24" E	
C7	15.17	100.00	N 84° 17' 13" E – 15.16	8° 41' 39"
L9	16.67		N 88° 38' 03" E	
C8	18.04	300.00	N 86° 54' 41" E – 18.04	3° 26' 44"
L10	8.55		N 85° 11' 18" E	
C9	40.81	281.34	N 89° 18' 52" E – 40.78	8° 18' 43"
L11	126.15		S 85° 59' 05" E	
C10	173.71	627.50	S 77° 55' 25" E – 173.16	15° 51' 42"
C11	8.94	15.00	S 87° 03' 48" E – 8.81	34° 08' 28"
C12	28.86	45.00	S 85° 45' 32" E – 28.37	36° 44' 59"
L12	10.90		S 67° 23' 03" E	

T LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
C2	106.82	300.00	N 75° 40' 53" E – 106.25	20° 24' 01"
L3	394.06		N 85° 52' 53" E	
C3	42.55	295.00	S 89° 59' 11" E – 42.51	8° 15' 51"
L4	126.19		S 85° 51' 15" E	
C4	265.93	639.00	S 73° 55' 56" E – 264.01	23° 50' 39"
L5	107.62		S 62° 00' 36" E	

LEGEND:

X △ DENOTES CONTROL POINT AND NUMBER.



SURVEY CONTROL DIAGRAM
SCALE : 1" = 20'

ORIGINAL SCALE IS IN INCHES
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FOR REDUCED PLANS 0 1 2

REVISION				
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER DUSTIN W. HARRINGTON No. C71517 License Expires 12-31-25 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

1/23/2024
DATE:

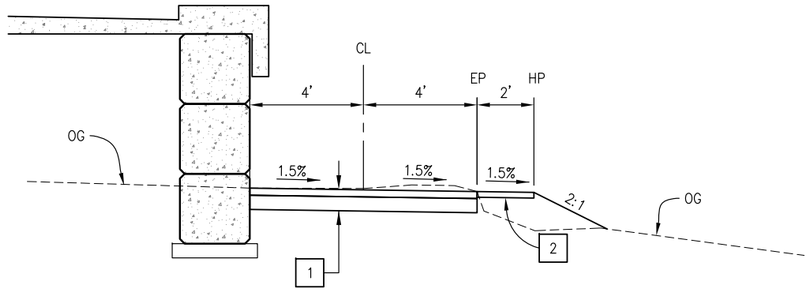
DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	4/30/2021
ROAD NUMBER:	--

EL DORADO COUNTY CALIFORNIA

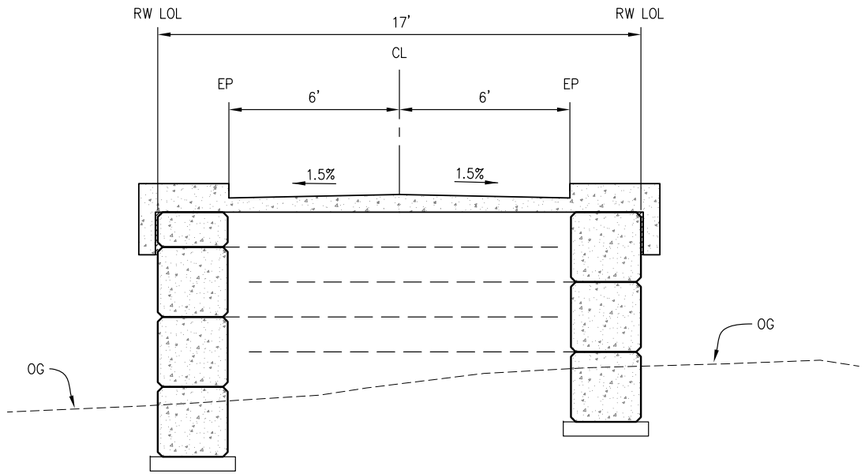
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

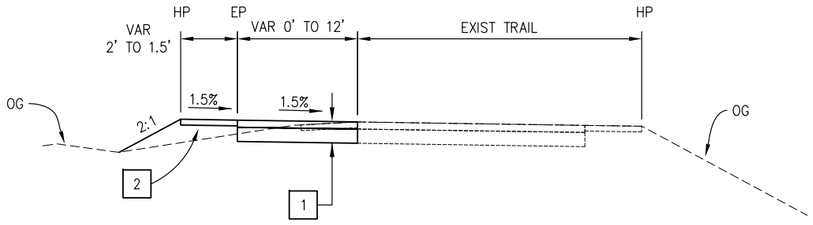
SHEET
CD-2
3 OF 42
W.O. No. 97015



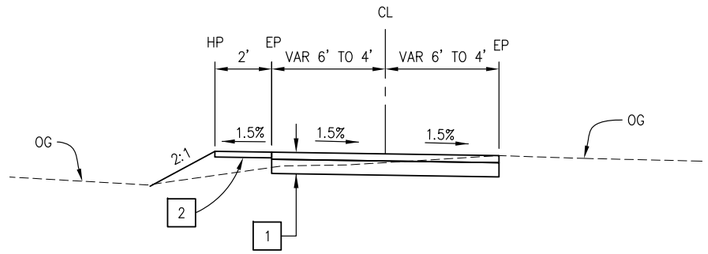
'SW' 10+96.22 TO 15+15.83



'T' 14+14.25 TO 15+91.21
'T' 19+65.62 TO 23+26.51



'T' 13+74.87 TO 14+14.25



'T' 23+27.77 TO 23+55

CONSTRUCTION NOTES:

1 — 0.25' HMA (TYPE A)
0.50' AB (CLASS 2)

2 — 0.20' AB (CLASS 2) SHOULDER BACKING

TYPICAL SECTIONS
SCALE : NONE

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 30 Projects\97015 El Dorado POC\CADD Files\Sheets\X Sheet.dwg Layout Tab: X-1 Mar 25,2024 - 1:44pm DHarrington

0 1 2
FOR REDUCED PLANS

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER
DUSTIN W. HARRINGTON
No. C71517
License Expires 12-31-25
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE: 4/9/2024

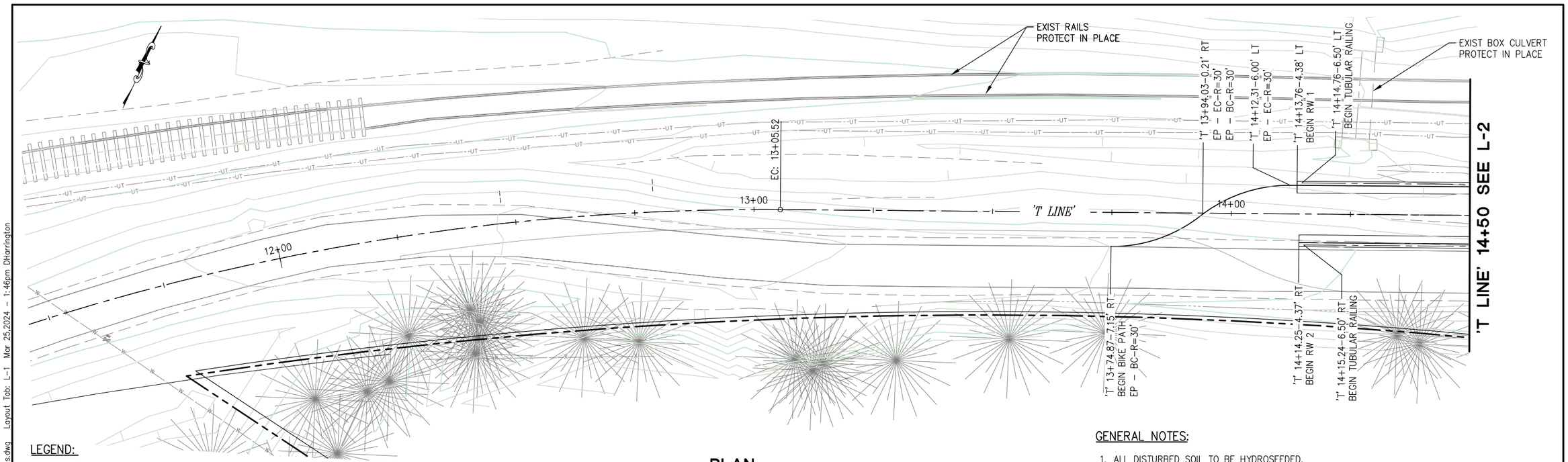
DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	3/5/2024
ROAD NUMBER:	
--	

EL DORADO COUNTY CALIFORNIA

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET
X-1
4 OF 42
W.O. No.
97015



PLAN

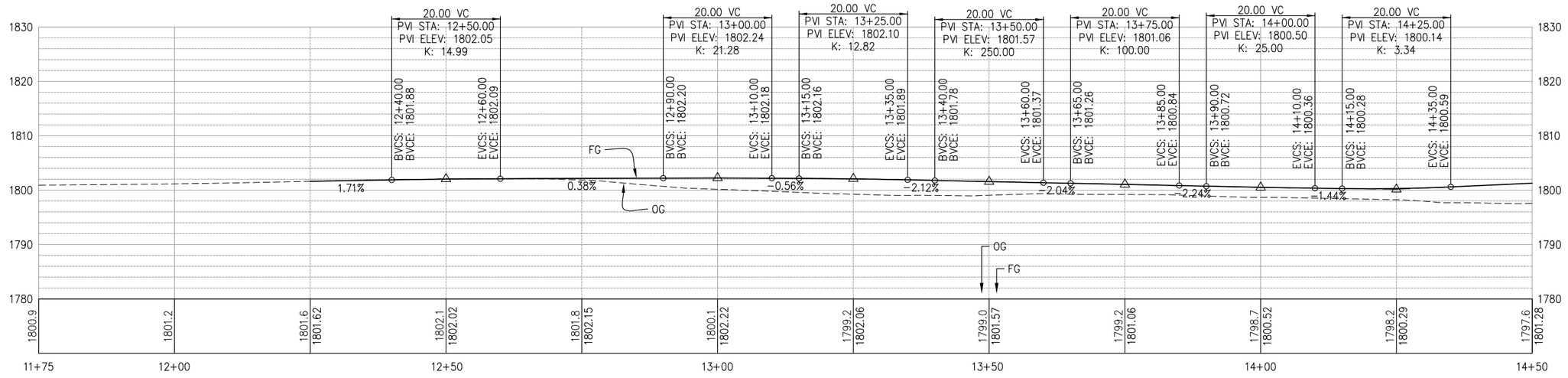
LEGEND:

OBLITERATE EXIST ASPHALT SURFACING

EXIST PAVED TRAIL (PROTECT IN PLACE)

GENERAL NOTES:

1. ALL DISTURBED SOIL TO BE HYDROSEEDED.
2. SEE SPD–SHEETS FOR SIGNING AND STRIPING PLANS.
3. SEE S–SHEETS FOR STRUCTURE PLANS.



PROFILE

LAYOUT PLAN AND PROFILE
SCALE : 1" = 10'

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado PDC\CADD Files\Sheets\L Sheets.dwg Layout Tab: L-1 Mar 25,2024 - 1:46pm DHarrington

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER — DATE: 4/9/2024

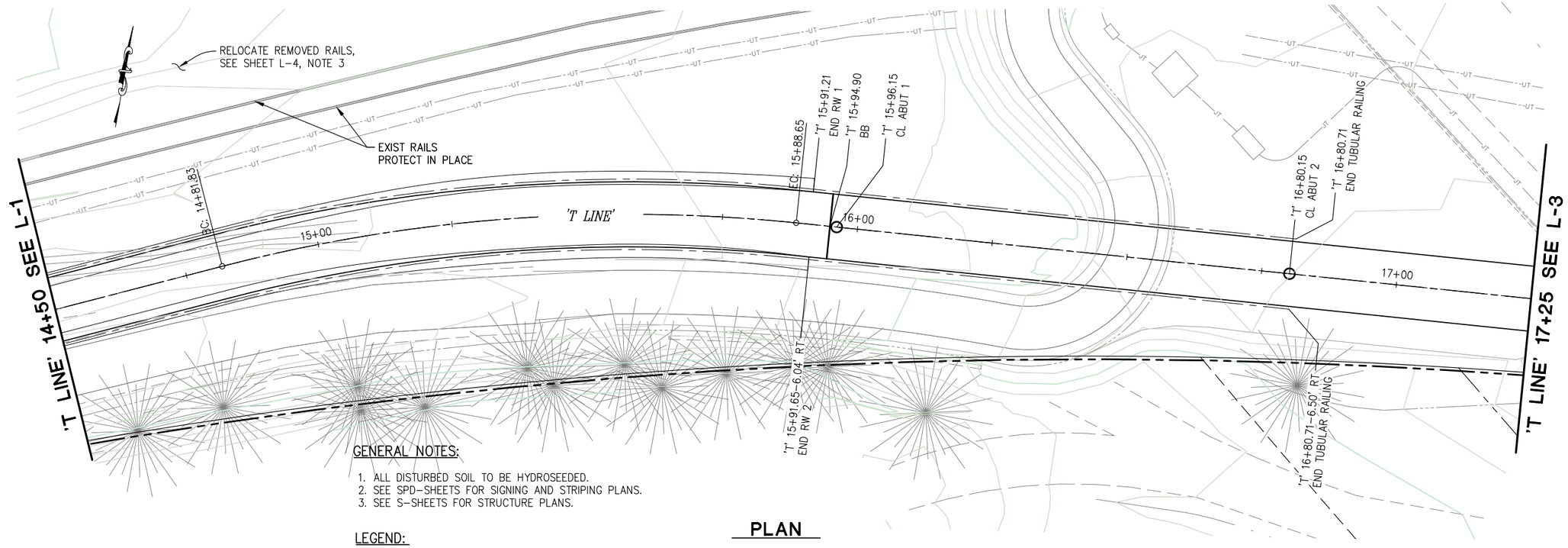
DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	3/5/2024
ROAD NUMBER:	--

EL DORADO COUNTY CALIFORNIA

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET L-1
5 OF 42
W.O. No. 97015



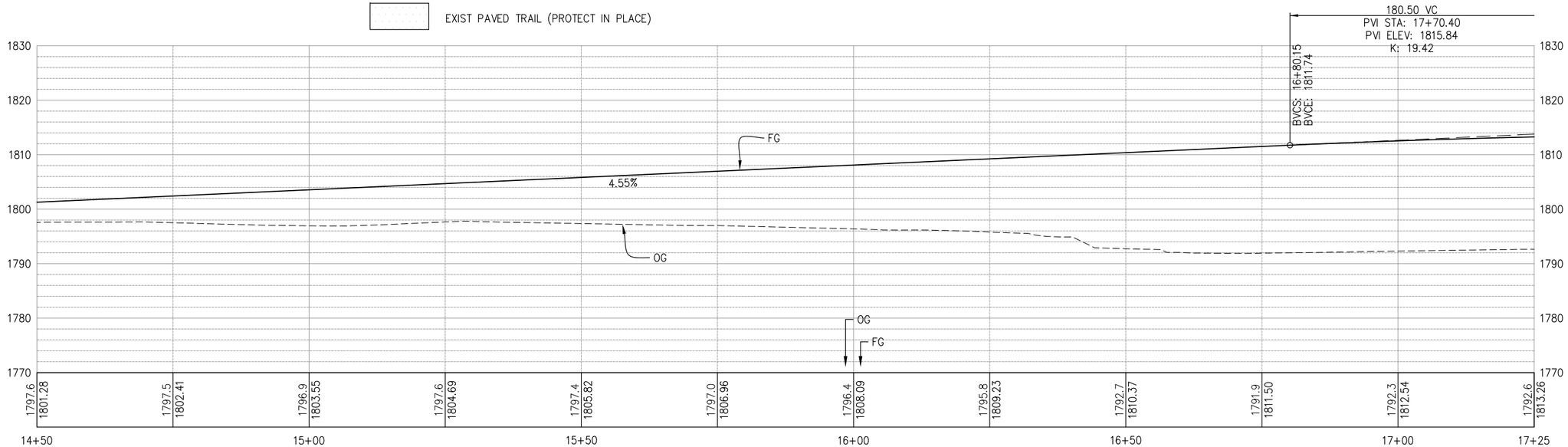
GENERAL NOTES:

1. ALL DISTURBED SOIL TO BE HYDROSEEDED.
2. SEE SPD-SHEETS FOR SIGNING AND STRIPING PLANS.
3. SEE S-SHEETS FOR STRUCTURE PLANS.

PLAN

LEGEND:

EXIST PAVED TRAIL (PROTECT IN PLACE)



PROFILE

LAYOUT PLAN AND PROFILE
SCALE : 1" = 10'

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: 4/9/2024

DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	3/5/2024
ROAD NUMBER:	
--	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET L-2
6 OF 42
W.O. No. 97015

GENERAL NOTES:

1. ALL DISTURBED SOIL TO BE HYDROSEEDED.
2. SEE SPD–SHEETS FOR SIGNING AND STRIPING PLANS.
3. SEE S–SHEETS FOR STRUCTURE PLANS.
4. REMOVE & SALVAGE EXIST PCC WHEEL STOPS AND ADA PARKING SIGNS w/ POSTS AT PARKING AREA.

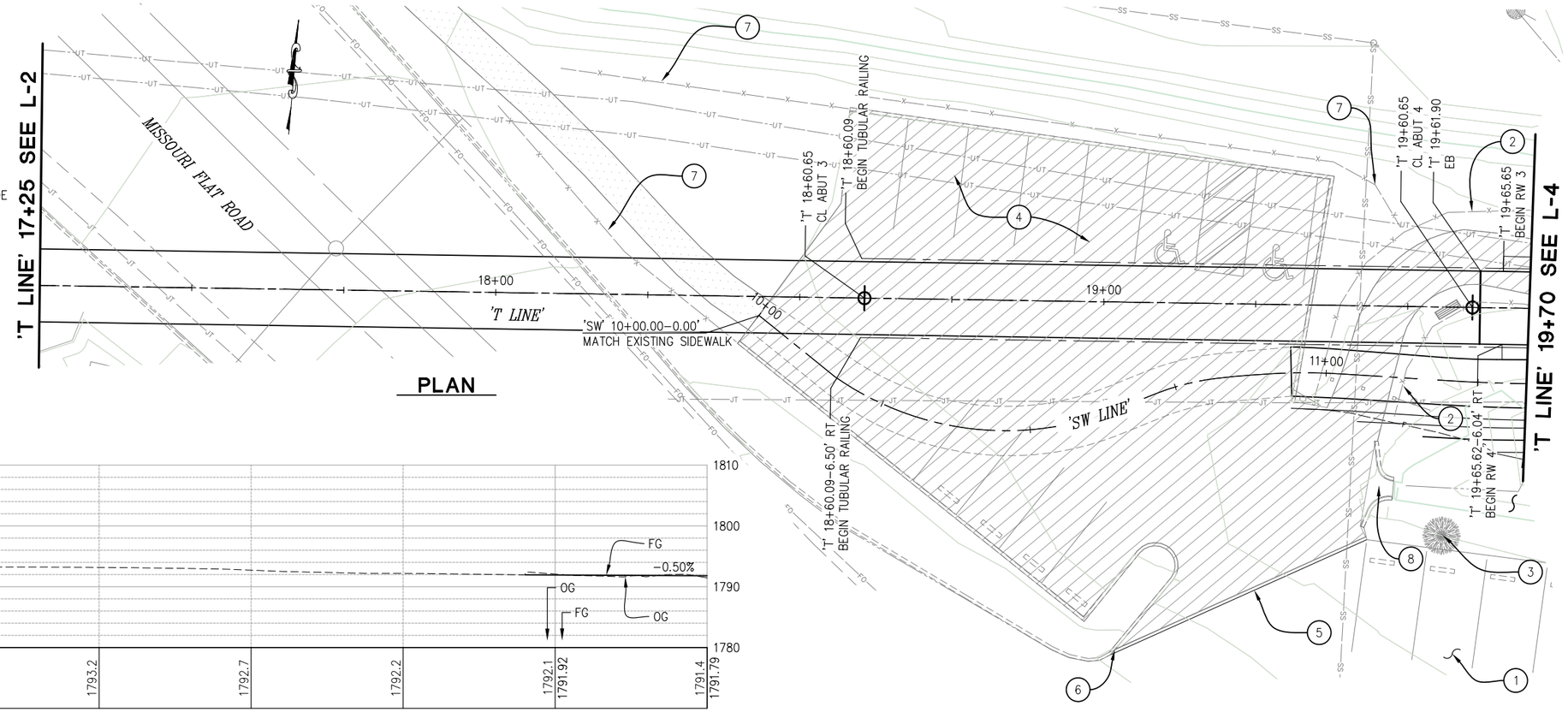
LEGEND:

LIMITS OF OBLITERATE EXIST ASPHALT SURFACING & ADJACENT CURB WHERE OCCURS (APPROX 9,545 SF TOTAL). REGRADE AREA TO MATCH ADJACENT SIDEWALK, HMA DIKE, AND PCC CURB AS APPLICABLE.

EXIST SIDEWALK (PROTECT IN PLACE)

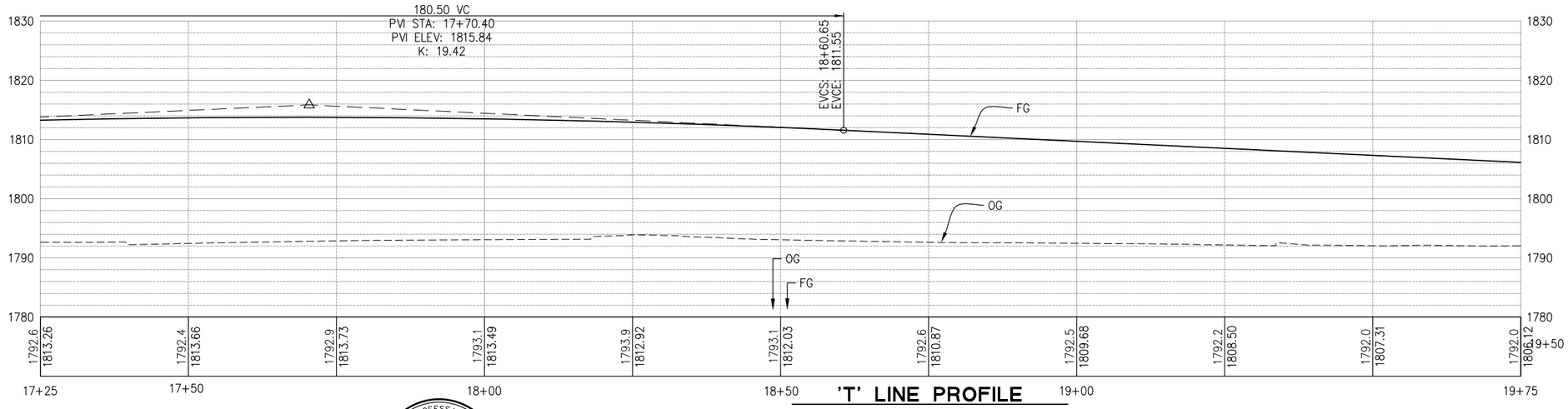
CONSTRUCTION NOTES:

1. — MAINTAIN ACCESS TO SIERRA DOOR & SUPPLY PARKING AREA.
2. — REMOVE & SALVAGE EXIST CONCRETE SPLIT RAIL FENCE (APPROX 150 LF TOTAL).
3. — PROTECT EXIST OAK TREE IN PLACE.
4. — REMOVE & SALVAGE PARKING LOT WHEEL STOPS.
5. — 46 LF CURB (TYPE A1–6)
6. — REMOVE EXISTING CURB AT JOINT
7. — EXISTING SPLIT RAIL FENCE (PROTECT IN PLACE)
8. — EXISTING PCC OSD (PROTECT IN PLACE)



PLAN

'SW' LINE PROFILE



'T' LINE PROFILE

LAYOUT PLAN AND PROFILE
SCALE : 1" = 10'

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE: 4/9/2024

DESIGNED: AN	DRAWN: AN
CHECKED: DH	DATE: 3/5/2024
ROAD NUMBER: --	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET L-3
7 OF 42
W.O. No. 97015

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\L Sheets.dwg Layout Tab: L-3 Mar 25,2024 - 1:48pm DHarrington
FOR REDUCED PLANS

LEGEND:

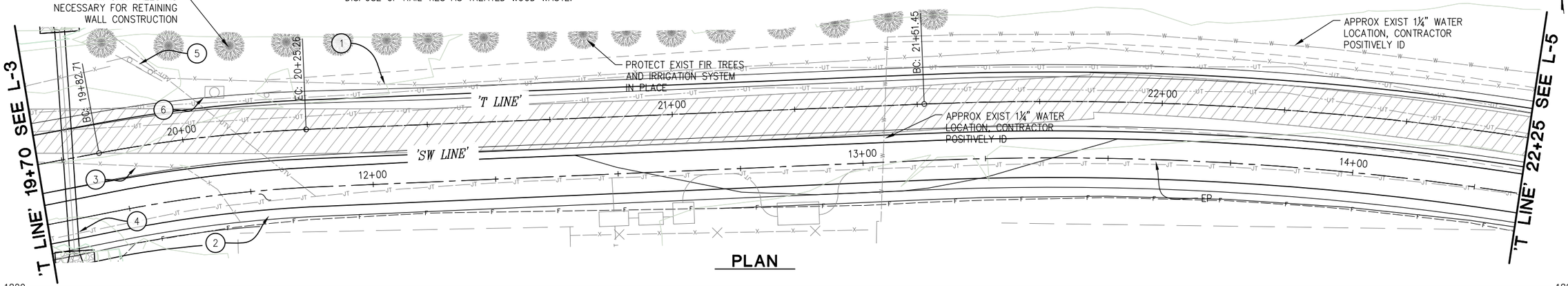
LIMITS OF OBLITERATE EXIST ASPHALT SURFACING

CONSTRUCTION NOTES:

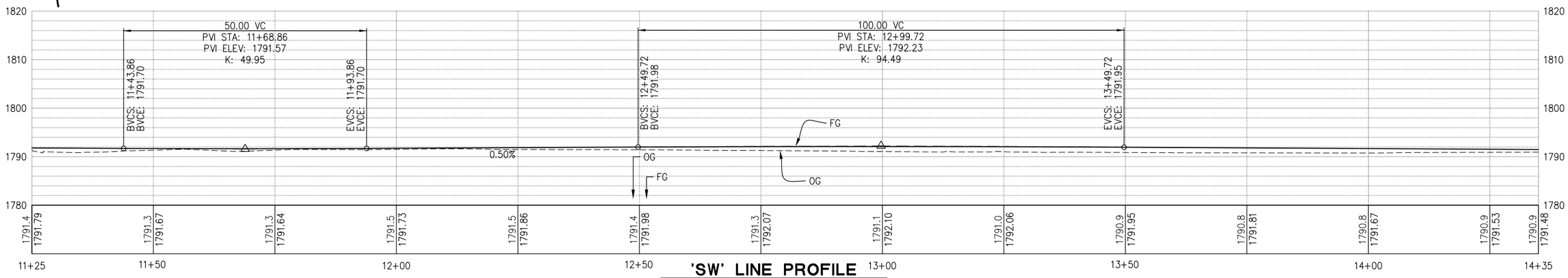
1. — EXISTING VINYL SPLIT RAIL FENCE (PROTECT IN PLACE)
2. — REMOVE & SALVAGE EXIST RAILS TO AREA ON WEST SIDE OF MISSOURI FLAT ROAD, SEE SHEET L-2. DISPOSE OF RAIL TIES AS TREATED WOOD WASTE.
3. — REMOVE & SALVAGE EXIST CONCRETE SPLIT RAIL FENCE (APPROX 150 LF TOTAL).
4. — REMOVE TIMBER CULVERT & REPLACE WITH 24" RCP, SEE SHEET D-1
5. — REMOVE & RELOCATE EXIST KIOSK AS DIRECTED BY THE ENGINEER.
6. — REMOVE & RELOCATE EXIST GARBAGE/RECYCLE RECEPTACLES AS DIRECTED BY THE ENGINEER.

GENERAL NOTES:

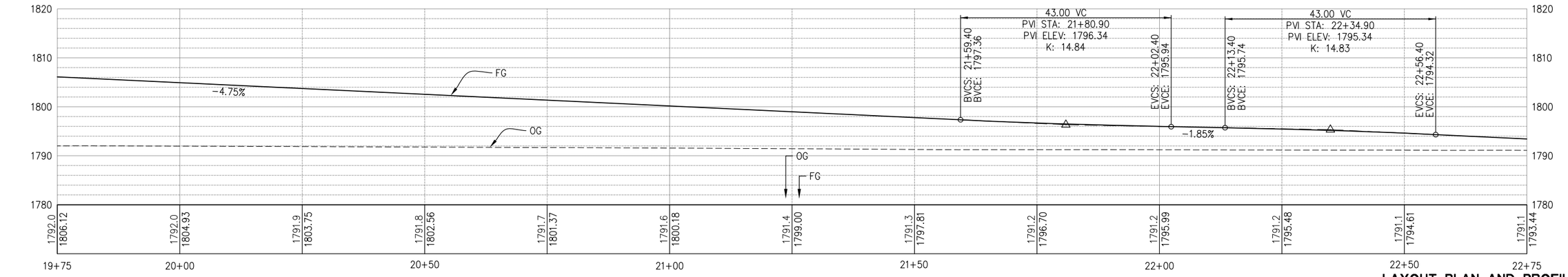
1. ALL DISTURBED SOIL TO BE HYDROSEEDED.
2. SEE SPD-SHEETS FOR SIGNING AND STRIPING PLANS.
3. SEE S-SHEETS FOR STRUCTURE PLANS.



PLAN



'SW' LINE PROFILE



'T' LINE PROFILE

LAYOUT PLAN AND PROFILE
SCALE : 1" = 10'

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: 1/23/2024

DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	10/5/2023
ROAD NUMBER:	--

EL DORADO COUNTY CALIFORNIA

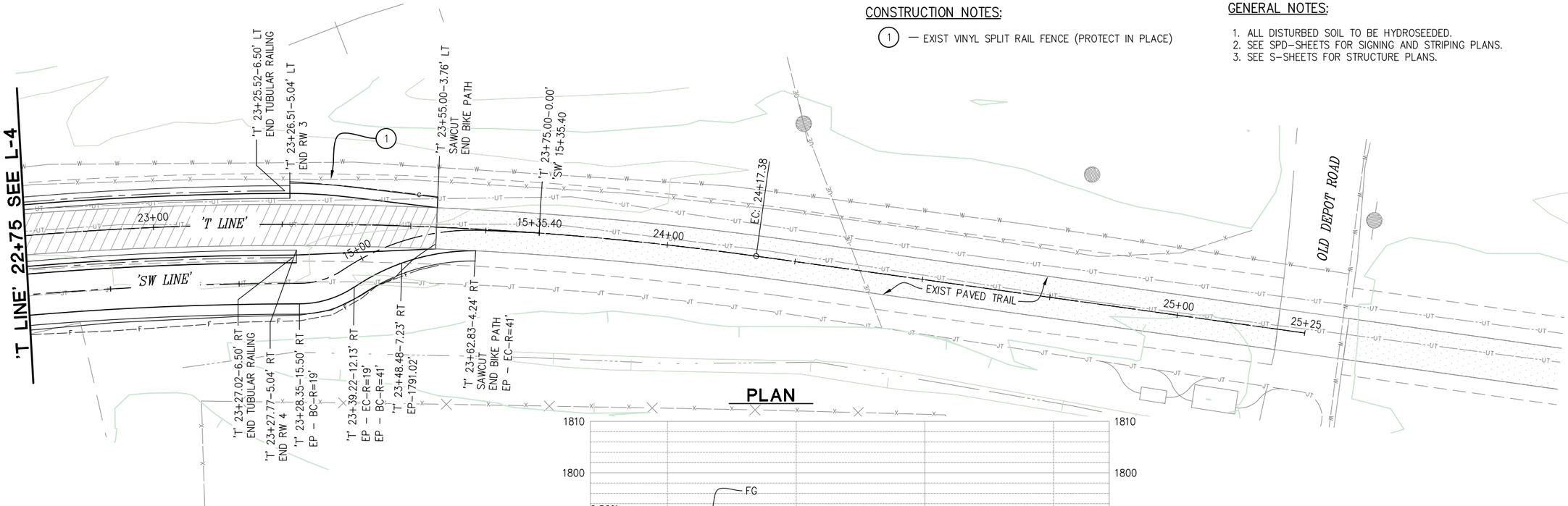
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET L-4
8 OF 42
W.O. No. 97015

FOR REDUCED PLANS
0 1 2
ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\L_Sheets.dwg Layout Tab: L-4 Jan 25,2024 - 3:58pm DHarrington

'T LINE' 22+75 SEE L-4



CONSTRUCTION NOTES:

(1) — EXIST VINYL SPLIT RAIL FENCE (PROTECT IN PLACE)

GENERAL NOTES:

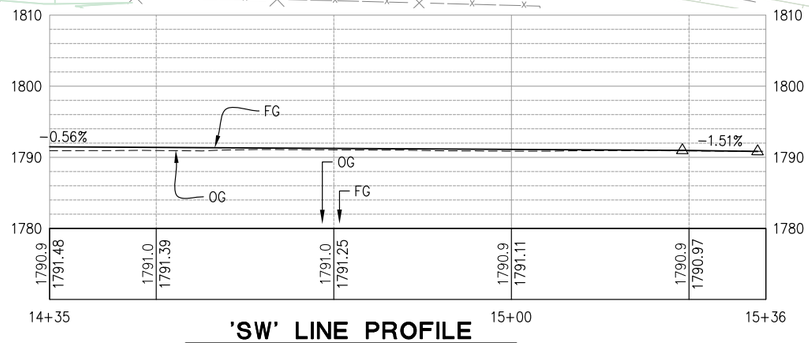
1. ALL DISTURBED SOIL TO BE HYDROSEEDED.
2. SEE SPD-SHEETS FOR SIGNING AND STRIPING PLANS.
3. SEE S-SHEETS FOR STRUCTURE PLANS.

LEGEND:

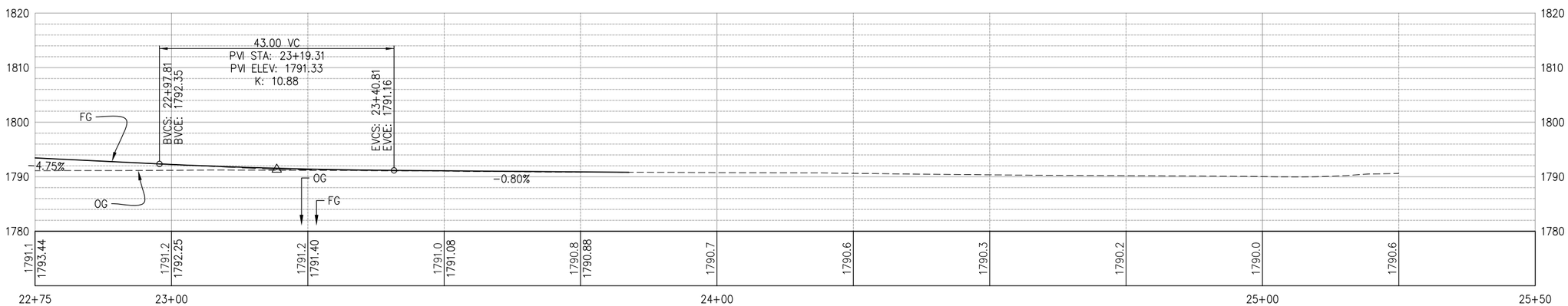
OBLITERATE EXIST ASPHALT SURFACING

EXIST PAVED TRAIL (PROTECT IN PLACE)

PLAN



'SW' LINE PROFILE



'T' LINE PROFILE

LAYOUT PLAN AND PROFILE
SCALE : 1" = 10'

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: 4/9/2024

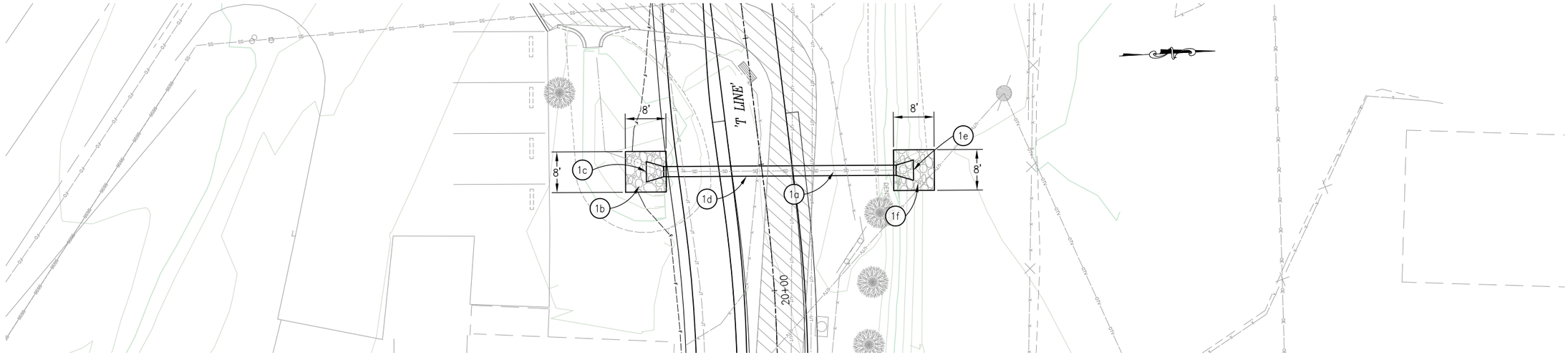
DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	3/5/2024
ROAD NUMBER:	--

EL DORADO COUNTY CALIFORNIA

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET L-5
9 OF 42
W.O. No. 97015



PLAN - SD SYSTEM 1

SCALE: 1" = 10'

CONSTRUCTION NOTES:

(1a) REMOVE EXIST TIMBER CULVERT (APPROX 46 LF)

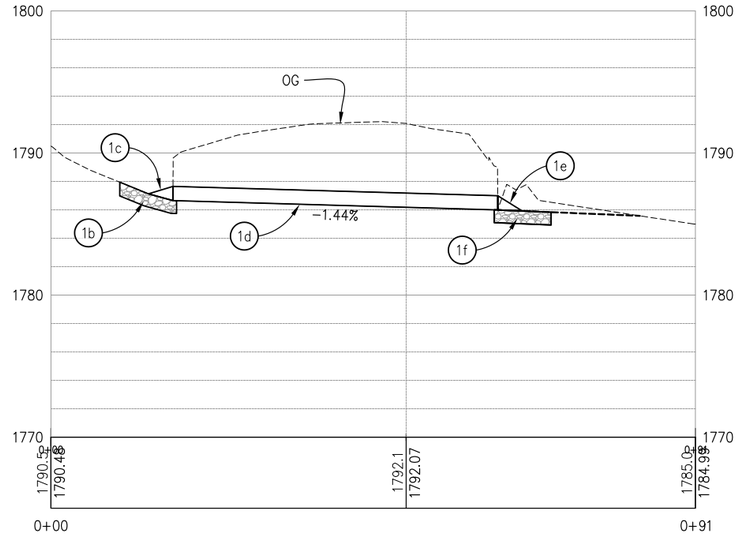
(1b) ROCK SLOPE PROTECTION
(CLASS II, 60 LB, METHOD B) w/
ROCK SLOPE PROTECTION FABRIC (CLASS 8)

(1c) 24" CONCRETE FLARED END SECTION (TYPE B)

(1d) 24" RCP = 46 LF
'T Line' 19+74.05–19.23' Rt
'T Line' 19+79.39–26.13' Lt
INVERT IN ELEV = 1786.65
INVERT OUT ELEV = 1785.99
S = 1.44%

(1e) 24" CONCRETE FLARED END SECTION (TYPE B)

(1f) ROCK SLOPE PROTECTION
(CLASS II, 60 LB, METHOD B) w/
ROCK SLOPE PROTECTION FABRIC (CLASS 8)



PROFILE - SD SYSTEM 1

SCALE: 1" = 10' H,V

THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY

DRAINAGE PLAN & PROFILE
SCALE : AS SHOWN

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: 1/23/2024

DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	11/21/2023
ROAD NUMBER:	--

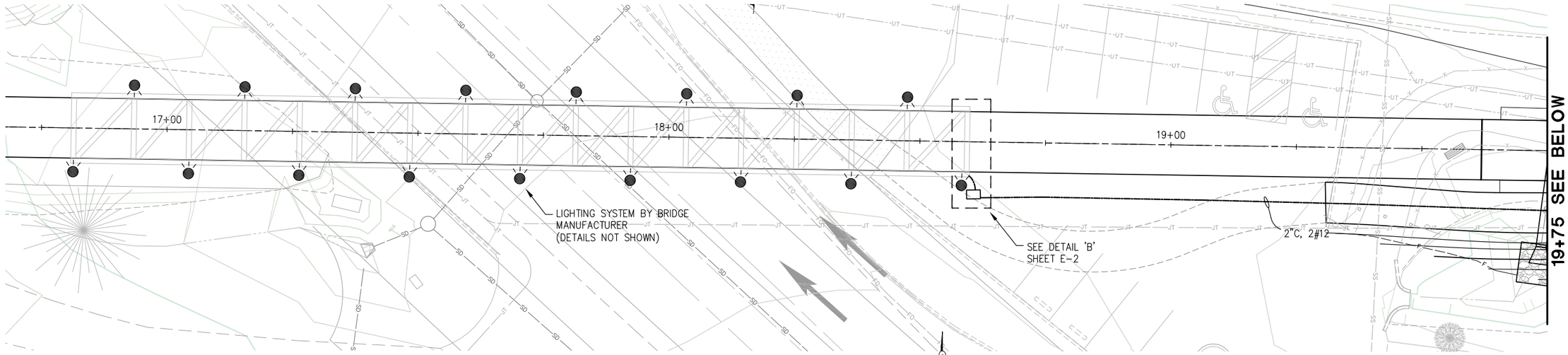
EL DORADO COUNTY — CALIFORNIA

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET D-1
10 OF 42
W.O. No. 97015

24-0528 D 10 of 42



LIGHTING PLAN

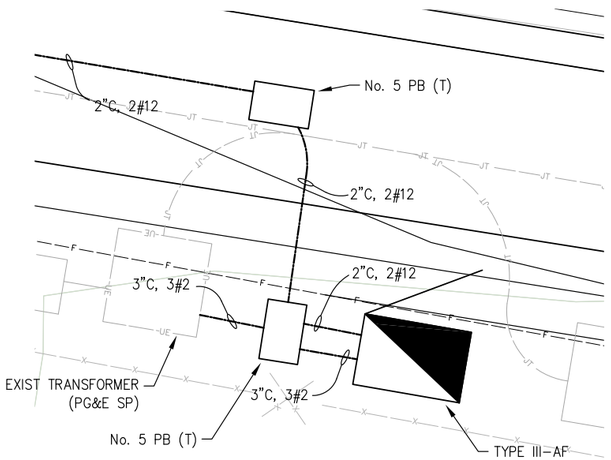
SCALE: 1"=10'

LEGEND:

RECESSED LED LIGHT FIXTURE
ESTIMATE 17 EA, STAGGERED AS SHOWN
LOW LIGHT ILLUMINANCE
10 WATT MAX/FIXTURE
3000K COLOR TEMPERATURE

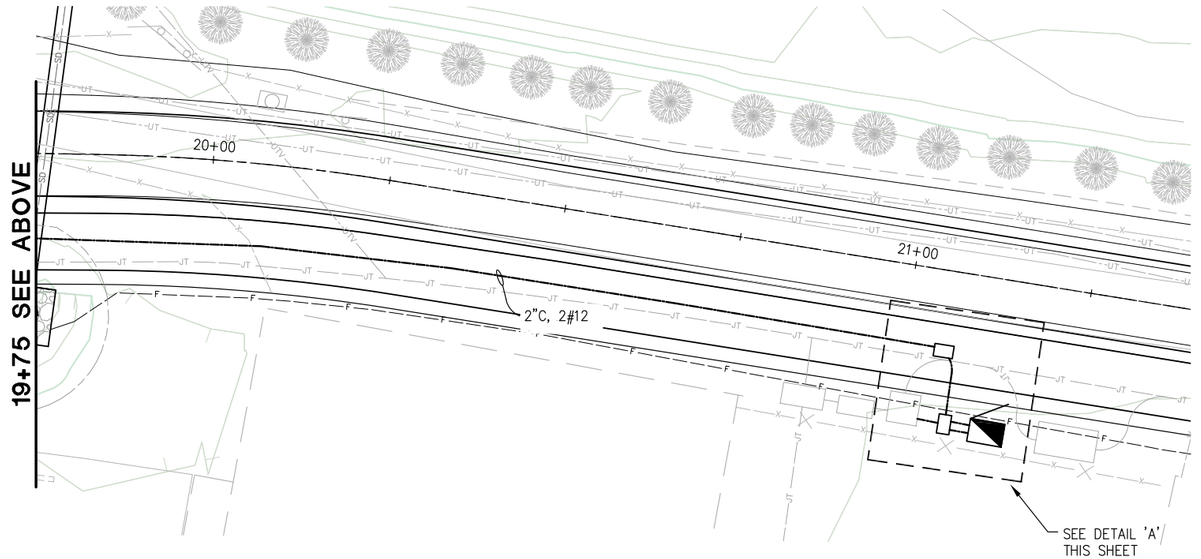
NOTES:

1. LIGHTING SYSTEM SHALL PROVIDE AN APPROXIMATE AVERAGE ILLUMINANCE ON THE BRIDGE DECK OF APPROXIMATELY 3–5 FOOTCANDLES.
2. LIGHT FIXTURES TO BE RECESSED WITHIN VERTICAL BRIDGE MEMBERS AT THE APPROXIMATE LOCATIONS SHOWN ON THE PLAN. EXACT HEIGHT OF FIXTURE AND MAKE/MODEL TO BE DETERMINED DURING SUBMITTAL REVIEW.
3. LIGHTING CONDUIT ATTACHED TO THE BRIDGE MAY BE A COMBINATION OF RIGID AND FLEXIBLE TYPE.
4. LIGHTING SYSTEM LAYOUT TO BE SHOWN ON BRIDGE SHOP DRAWINGS AND BE SUBJECT TO REVIEW BY COUNTY.



DETAIL 'A'

NO SCALE



LIGHTING PLAN

SCALE: 1"=10'

LIGHTING PLAN (BRIDGE)
SCALE : AS SHOWN

THIS SHEET ACCURATE FOR ELECTRICAL WORK ONLY

FOR REDUCED PLANS
0 1 2
ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\E Sheets.dwg Layout Tab: E-1 Mar 26,2024 - 7:31pm DHarrington

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER — DATE: 4/9/2024

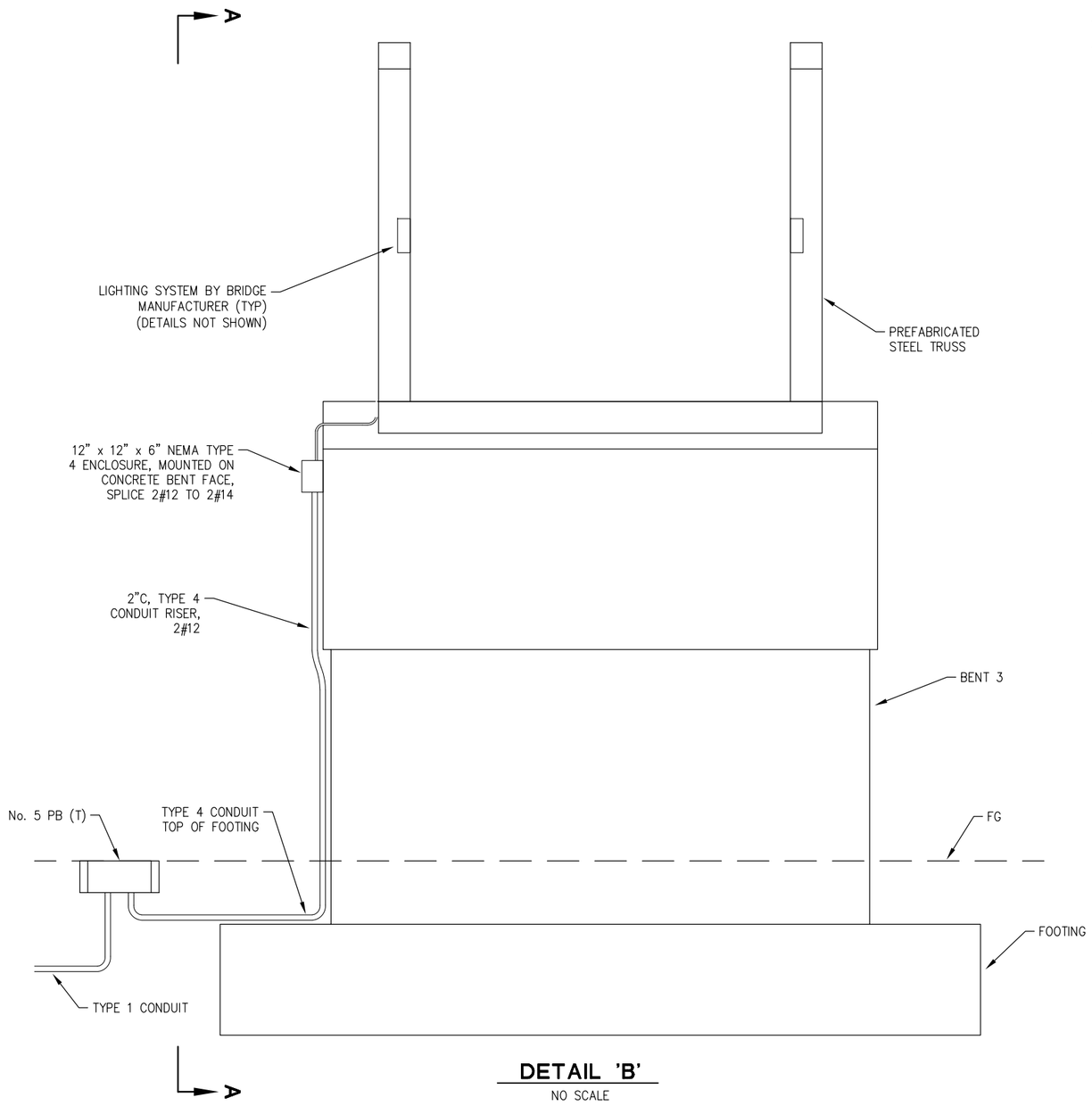
DESIGNED:	DRAWN:
DH	AN
CHECKED:	DATE:
DH	3/26/2024
ROAD NUMBER:	
--	

EL DORADO COUNTY CALIFORNIA

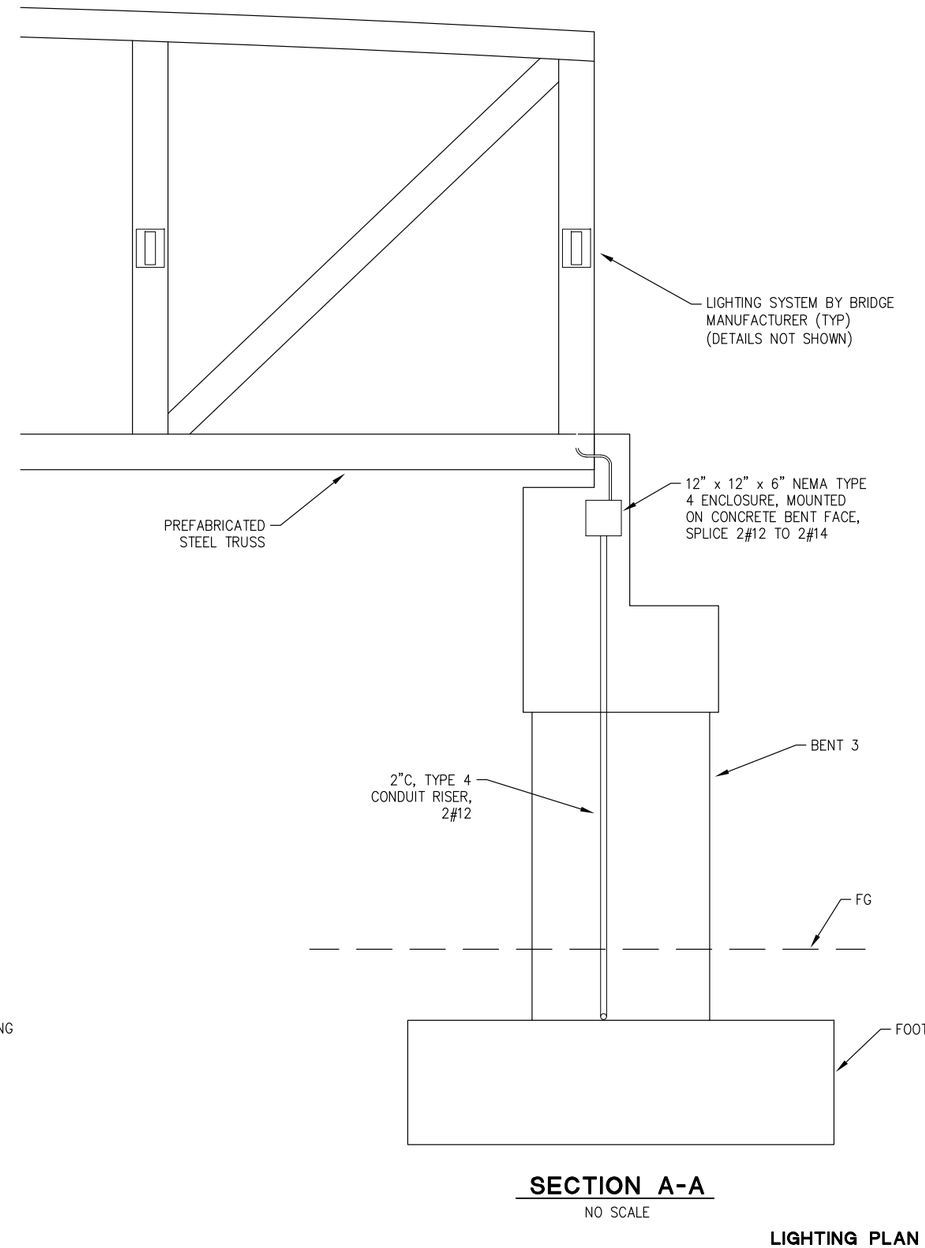
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET E-1
11 OF 42
W.O. No. 97015



DETAIL 'B'
NO SCALE



SECTION A-A
NO SCALE

THIS SHEET ACCURATE FOR ELECTRICAL WORK ONLY

LIGHTING PLAN (BRIDGE)
SCALE : 1" = 20'

FOR REDUCED PLANS
0 1 2

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
4/9/2024
DATE:

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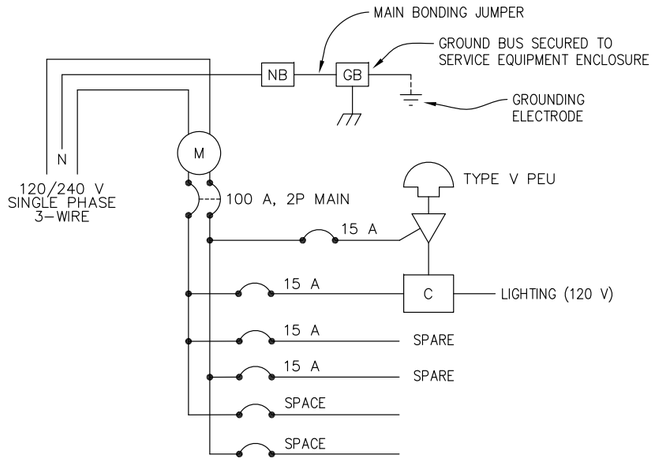
DH	AN
CHECKED:	DATE:
DH	3/26/2024
ROAD NUMBER:	--

EL DORADO COUNTY CALIFORNIA

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET
E-2
12 OF 42
W.O. No. **97015**



WIRING DIAGRAM LEGEND:

- C — CONTACTOR
- GB — GROUND BUS
- NB — NEUTRAL BUS
- AUTO-TEST SWITCH (15 A, 1P)
- PHOTOELECTRIC UNIT
- M — METER SOCKET

SERVICE EQUIPMENT WIRING DIAGRAM

NO SCALE

THIS SHEET ACCURATE FOR ELECTRICAL WORK ONLY

LIGHTING PLAN (BRIDGE)
SCALE : 1" = 20'

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER — DATE: 1/23/2024

DESIGNED: DH	DRAWN: AN
CHECKED: DH	DATE: 11/27/2023
ROAD NUMBER: --	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET E-3
13 OF 42
W.O. No. 97015

GENERAL NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SUBMIT TRAFFIC CONTROL PLANS TO THE ENGINEER FOR REVIEW AND APPROVAL IN ACCORDANCE WITH THE SPECIAL PROVISIONS PRIOR TO THE START OF WORK REQUIRING TRAFFIC CONTROL.
3. CONSTRUCTION AREA SIGNS (EXCLUDING FUNDING SIGNS) MUST HAVE BLACK LETTERING AND BORDER OVER ORANGE BACKGROUND.

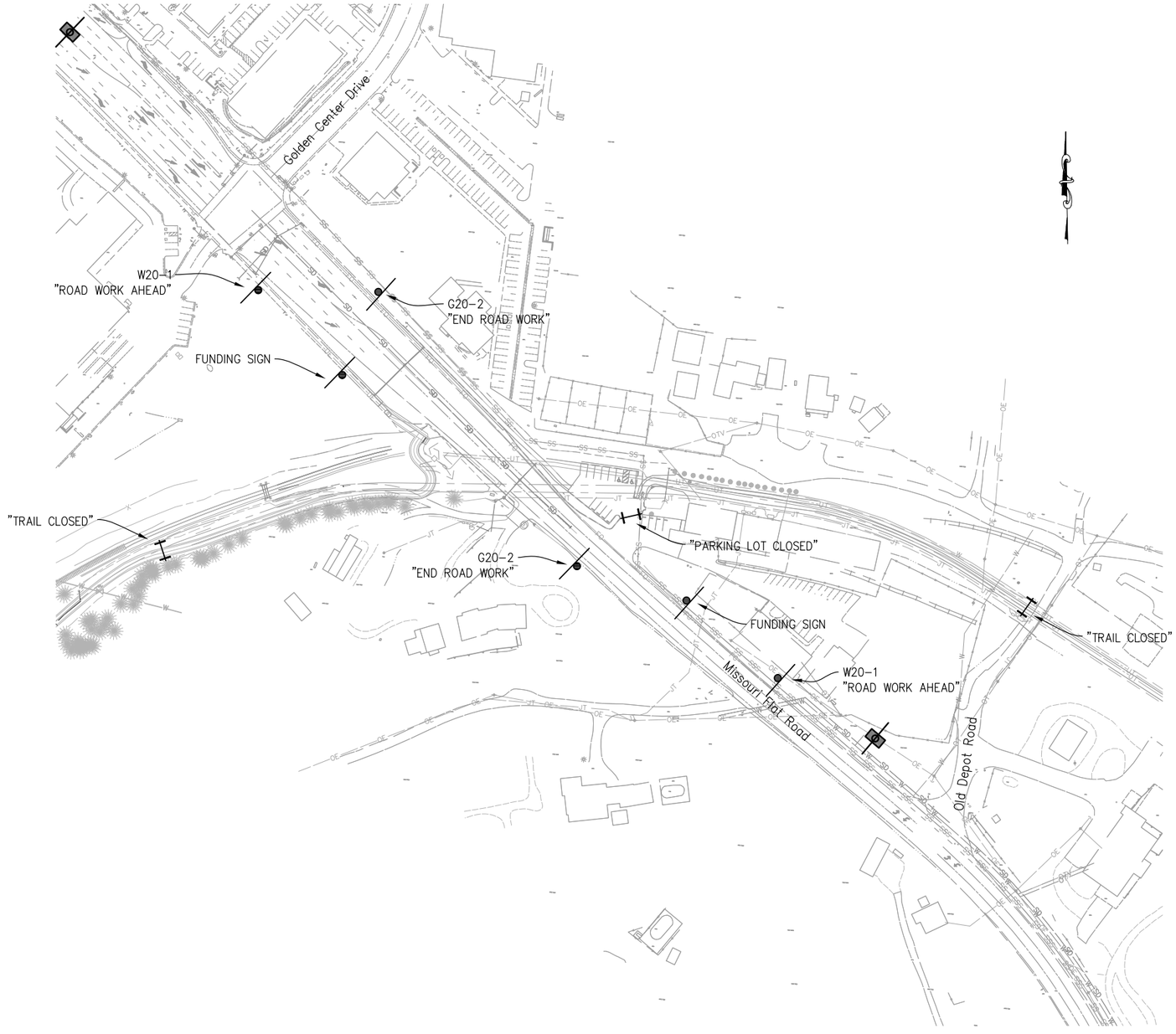
LEGEND:

— TYPE III BARRICADE

— CONSTRUCTION AREA SIGN

— PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

PORTABLE CHANGEABLE MESSAGE SIGN	
FIRST FLASH	SECOND FLASH
SHOULDER WORK AHEAD	MON – FRI (WORK HOURS)



CONSTRUCTION AREA SIGNS
NO SCALE

THIS SHEET ACCURATE FOR SIGNING WORK ONLY

CONSTRUCTION AREA SIGNS
SCALE : 1" = 20'

FOR REDUCED PLANS
0 1 2
ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\CS Sheets.dwg Layout Tab: CS-1 Feb 02,2024 - 10:32am DHarrington

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE: 1/23/2024

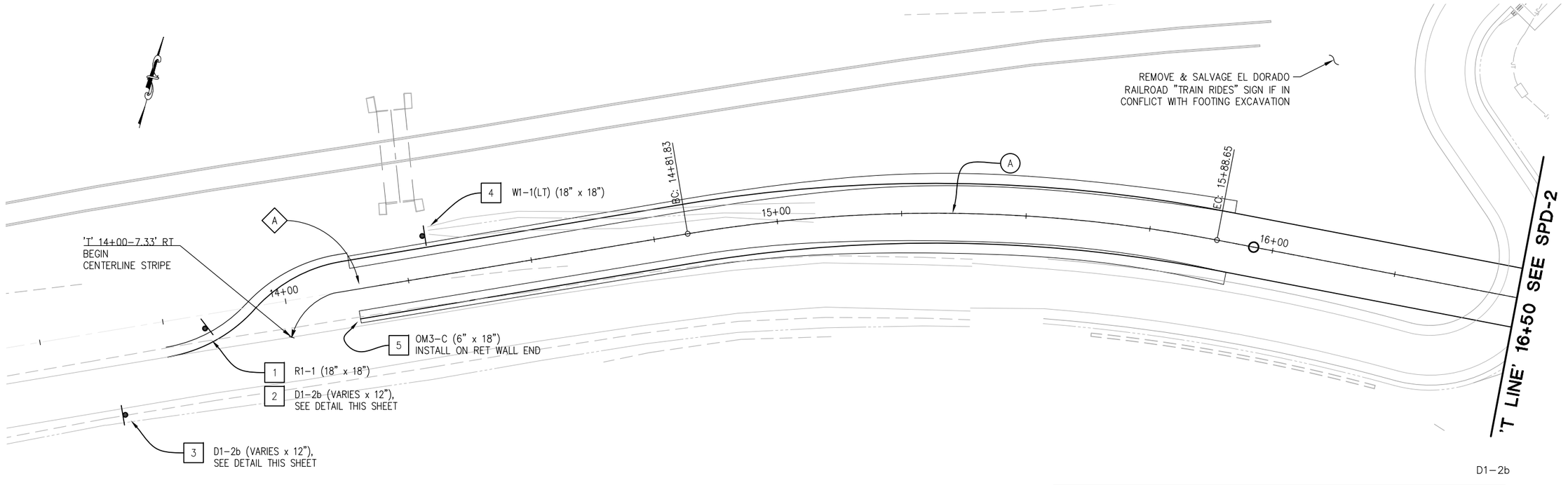
DESIGNED: DH	DRAWN: AN
CHECKED: DH	DATE: 6/4/2020
ROAD NUMBER: --	

EL DORADO COUNTY CALIFORNIA

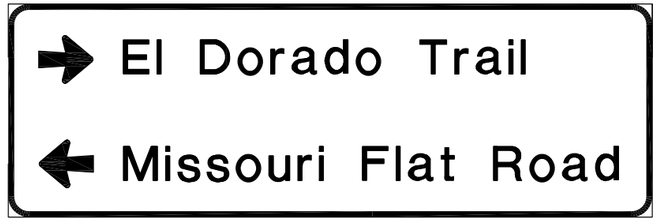
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET
CS-1
14 OF 42
W.O. No. **97015**

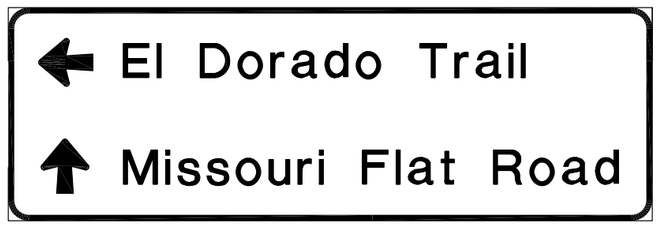


D1–2b



SIGN DETAIL 2
NO SCALE

D1–2b



SIGN DETAIL 3
NO SCALE

LEGEND:

- XX – SIGN NUMBER
- – EXIST SIGN
- – INSTALL SIGN SINGLE POST PER DETAIL 'B' ON SHEET SPD–4
- A – DASHED CENTERLINE STRIPE PER DETAIL 'A' ON SHEET SPD–4
- – LIMITS OF DESIGNATED STRIPES AND DETAILS

THIS SHEET ACCURATE FOR SIGNING AND PAVEMENT DELINEATION WORK ONLY

PAVEMENT & SIGN DELINEATION
SCALE : 1" = 20'

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\SPD Sheets.dwg Layout Tab: SPD-1 Mar 26,2024 - 7:50pm DHarrington

0 1 2

FOR REDUCED PLANS

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER
DUSTIN W. HARRINGTON
No. C71517
License Expires 12-31-25
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE: 4/9/2024

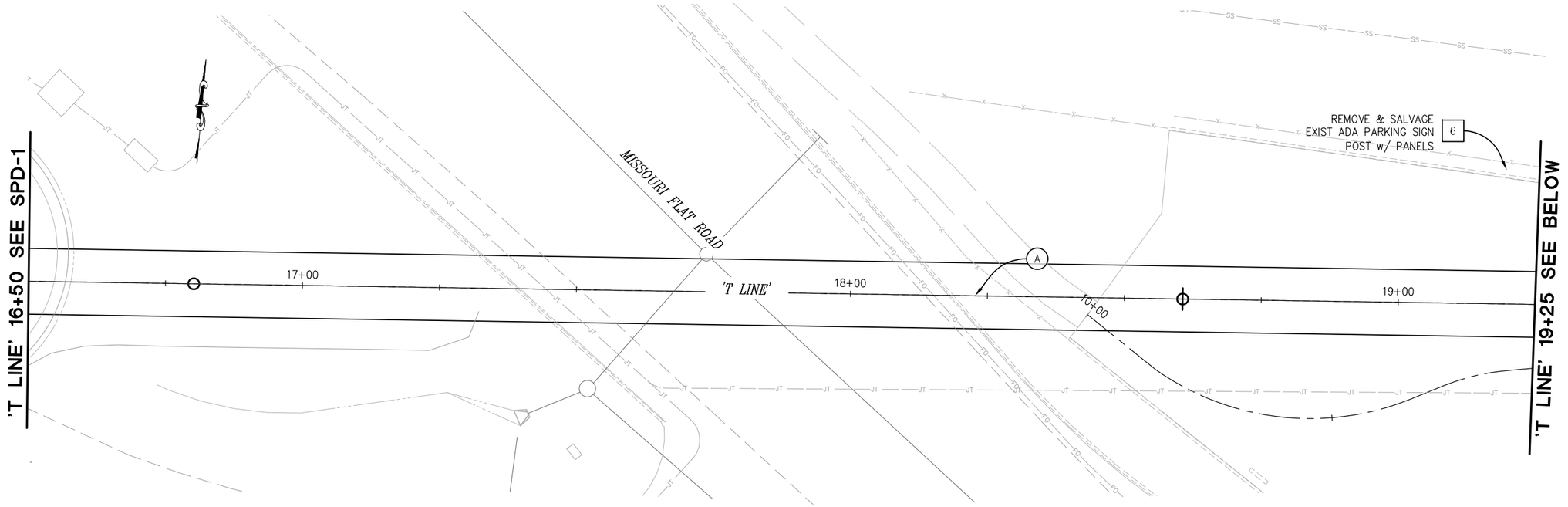
DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	3/26/2024
ROAD NUMBER:	
--	

EL DORADO COUNTY CALIFORNIA

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET
SPD-1
15 OF 42
W.O. No. **97015**



ORIGINAL SCALE IS IN INCHES
0 1 2
FOR REDUCED PLANS

THIS SHEET ACCURATE FOR SIGNING AND PAVEMENT DELINEATION WORK ONLY

PAVEMENT & SIGN DELINEATION
SCALE : 1" = 20'

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER — DATE: 1/23/2024

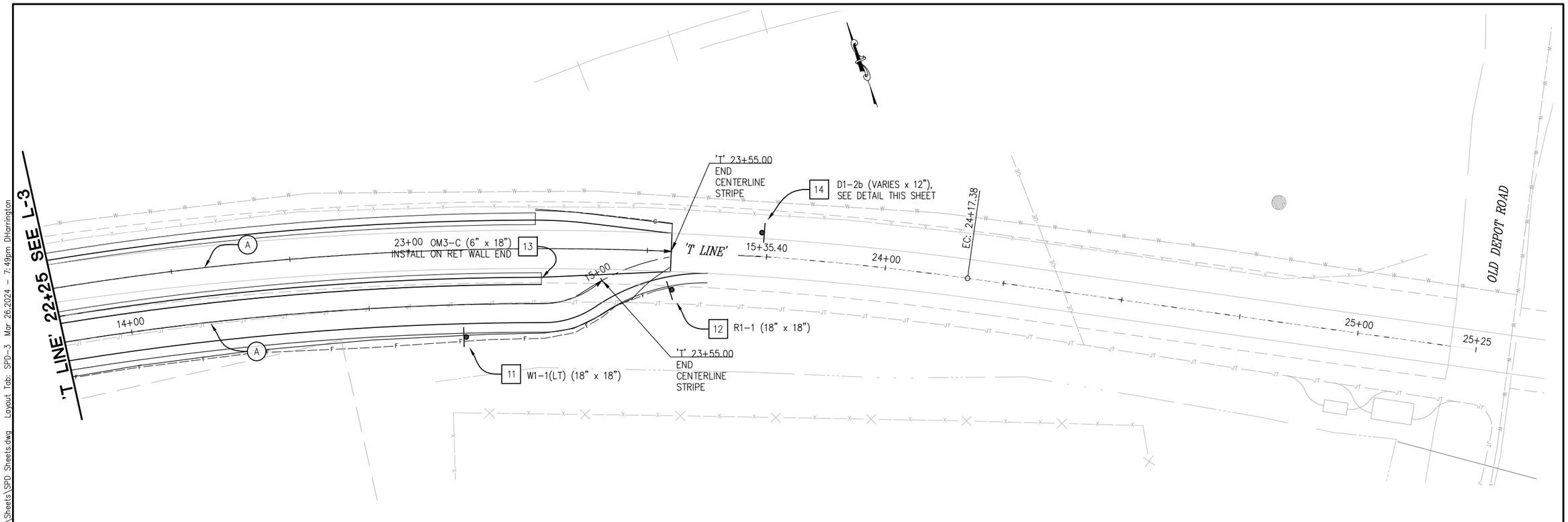
DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	8/31/2020
ROAD NUMBER:	--

EL DORADO COUNTY CALIFORNIA

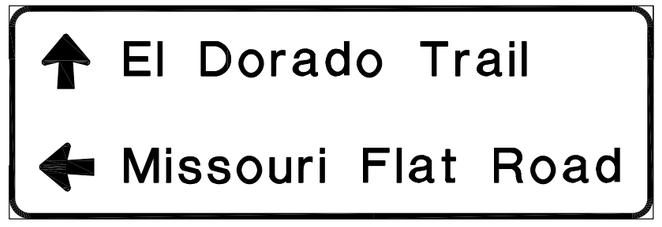
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET **SPD-2**
16 OF 42
W.O. No. **97015**



D1-2b



SIGN DETAIL 14
NO SCALE

THIS SHEET ACCURATE FOR SIGNING AND PAVEMENT DELINEATION WORK ONLY

PAVEMENT & SIGN DELINEATION
SCALE : 1" = 20'

FOR REDUCED PLANS
0 1 2
ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\SPD Sheets.dwg Layout Tab: SPD-3 Mar 26,2024 - 7:49pm Dharrington

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER
JUSTIN W. HARRINGTON
No. C71517
License Expires 12-31-25
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE: 4/9/2024

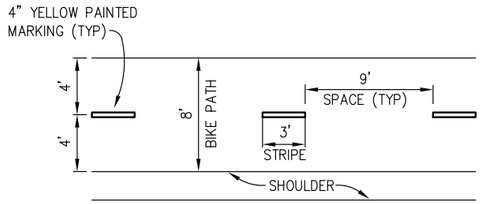
DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	3/26/2024
ROAD NUMBER:	--

EL DORADO COUNTY CALIFORNIA

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

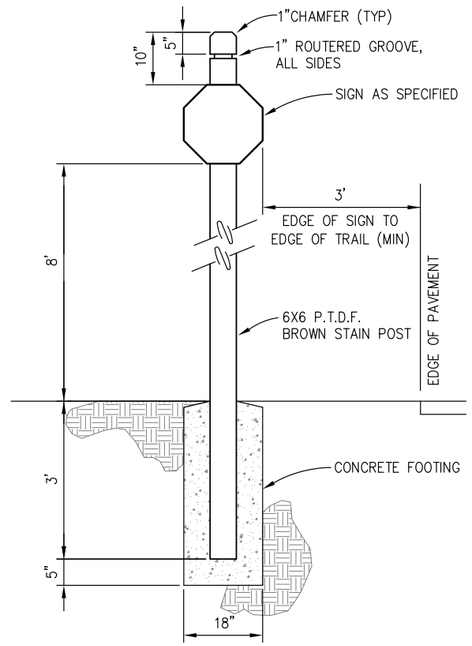
EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET
SPD-3
17 OF 42
W.O. No. **97015**



A **DASHED CENTERLINE STRIPING DETAIL**

NO SCALE



B **SIGN POST DETAIL**

NO SCALE

NOTE:

1. COUNTY WILL FURNISH (4) 16' 6x6 SIGN POSTS FOR CONTRACTOR'S USE

THIS SHEET ACCURATE FOR SIGNING AND PAVEMENT DELINEATION WORK ONLY

PAVEMENT & SIGN DELINEATION
SCALE : 1" = 20'

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

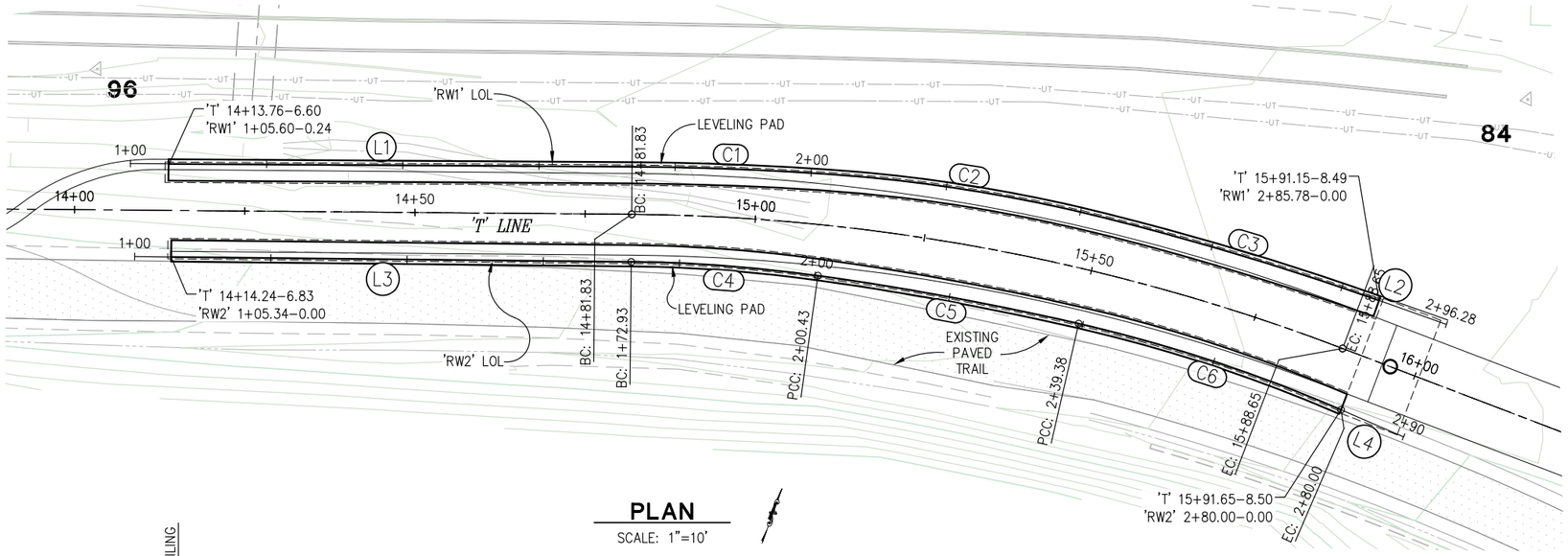
DATE: 1/23/2024

DESIGNED:	DRAWN:
AN	AN
CHECKED:	DATE:
DH	8/31/2020
ROAD NUMBER:	
--	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

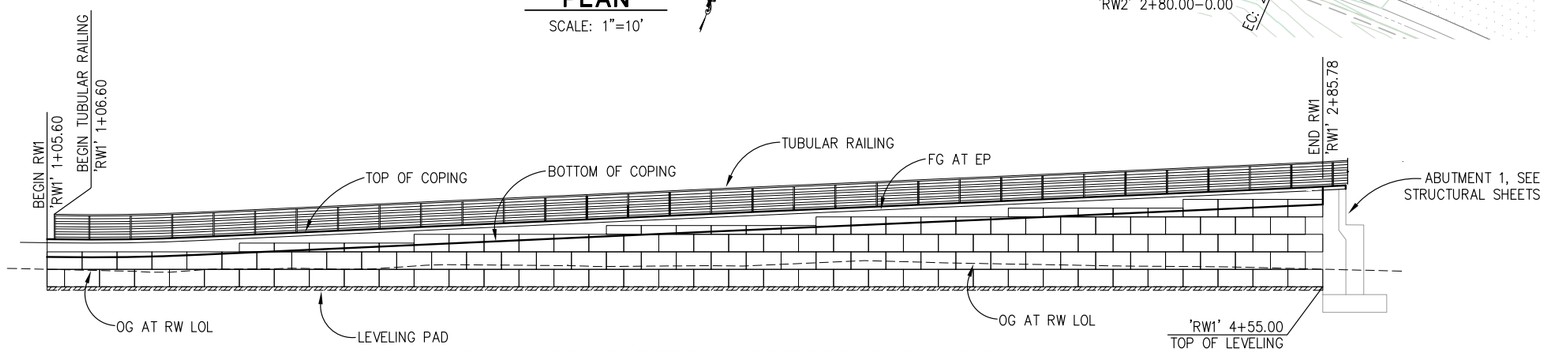
EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET
SPD-4
18 OF 42
W.O. No. **97015**



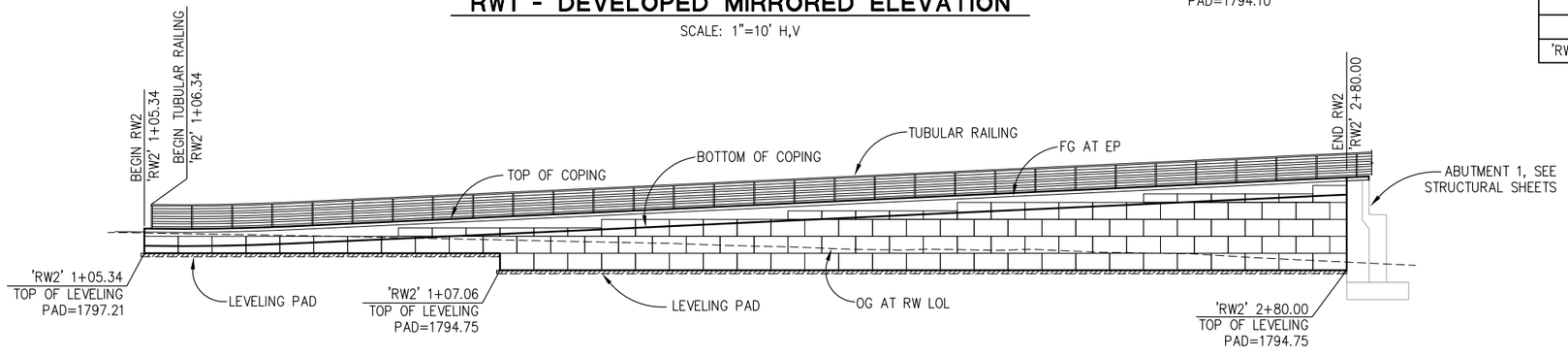
PLAN

SCALE: 1"=10'



RW1 - DEVELOPED MIRRORED ELEVATION

SCALE: 1"=10' H,V



RW2 - DEVELOPED ELEVATION

SCALE: 1"=10' H,V

'RW1' LOL				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	73.67		N 65° 21' 54" E	
C1	28.85	461.18	N 67° 08' 43" E – 28.84	3° 35' 02"
C2	41.06	233.08	N 73° 59' 02" E – 41.01	10° 05' 35"
C3	42.70	444.72	N 81° 46' 51" E – 42.68	5° 30' 03"
L2	10.00		N 84° 31' 52" E	

'RW2' LOL				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L3	72.93		N 65° 36' 25" E	
C4	27.50	216.40	N 69° 14' 52" E – 27.48	7° 16' 54"
C5	38.95	441.74	N 75° 24' 54" E – 38.94	5° 03' 09"
C6	40.62	222.58	N 83° 10' 08" E – 40.56	10° 27' 20"
L4	10.00		N 88° 23' 49" E	

TOP OF COPING ELEVATION TABLE
RETAINING WALL 'RW1' & 'RW2'

'RW1' LINE STATION	TOP OF COPING ELEVATION	'RW2' LINE STATION	TOP OF COPING ELEVATION
'RW1' 1+05.60 (BEGIN)	1800.80	'RW2' 1+05.34 (BEGIN)	1800.79
'RW1' 1+20	1800.86	'RW2' 1+20	1800.88
'RW1' 1+40	1801.69	'RW2' 1+40	1801.73
'RW1' 1+60	1802.60	'RW2' 1+60	1802.64
'RW1' 1+80	1803.51	'RW2' 1+80	1803.56
'RW1' 2+00	1804.40	'RW2' 2+00	1804.49
'RW1' 2+20	1805.28	'RW2' 2+20	1805.42
'RW1' 2+40	1806.16	'RW2' 2+40	1806.35
'RW1' 2+60	1807.05	'RW2' 2+60	1807.29
'RW1' 2+80	1807.94	'RW2' 2+80 (END)	1808.21
'RW1' 2+85.78 (END)	1808.19		

ELEVATION LEGEND:

- — FULL CAP BLOCK (1.25' x 2.5' x 5')
- — FULL BLOCK (2.5' x 2.5' x 5')
- — HALF BLOCK (2.5' x 2.5' x 2.5')
- — CONCRETE LEVELING PAD (0.5' x 3')

RETAINING WALLS 1 & 2
SCALE : AS SHOWN

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado PDC\CADD Files\Sheets\RW-Sheets.dwg Layout Tab: RW-1 Feb 05,2024 - 8:47am DHarrington

FOR REDUCED PLANS

REVISION				
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

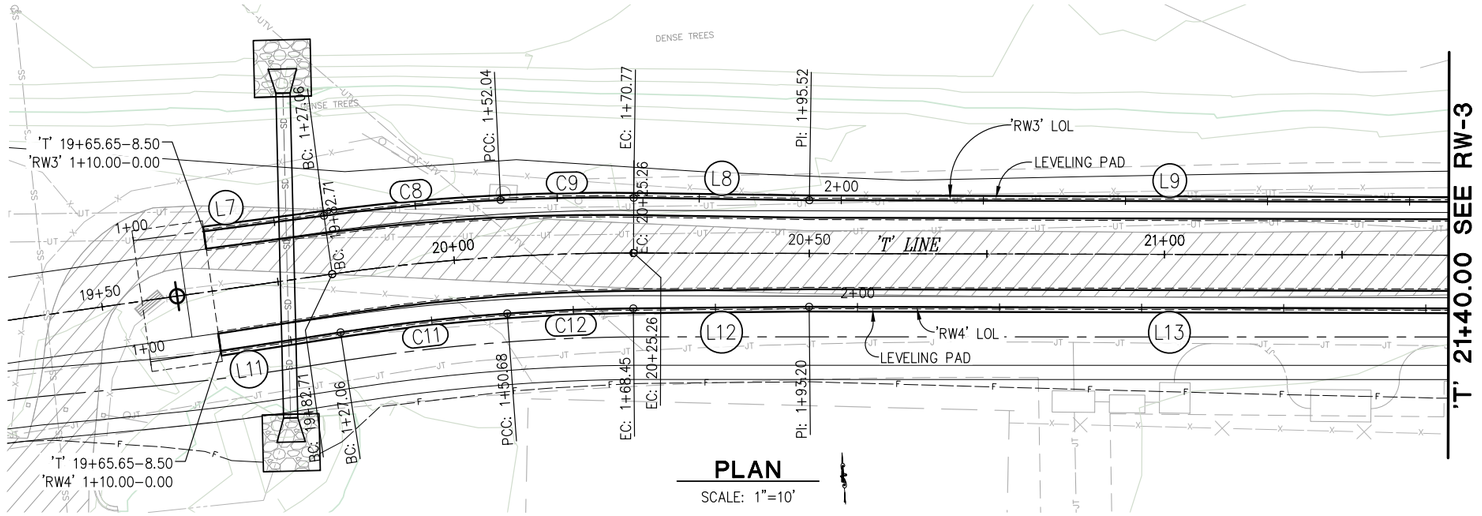
REGISTERED CIVIL ENGINEER — DATE: 1/23/2024

DESIGNED:	DRAWN:
DH	SM
CHECKED:	DATE:
DH	10/27/23
ROAD NUMBER:	--

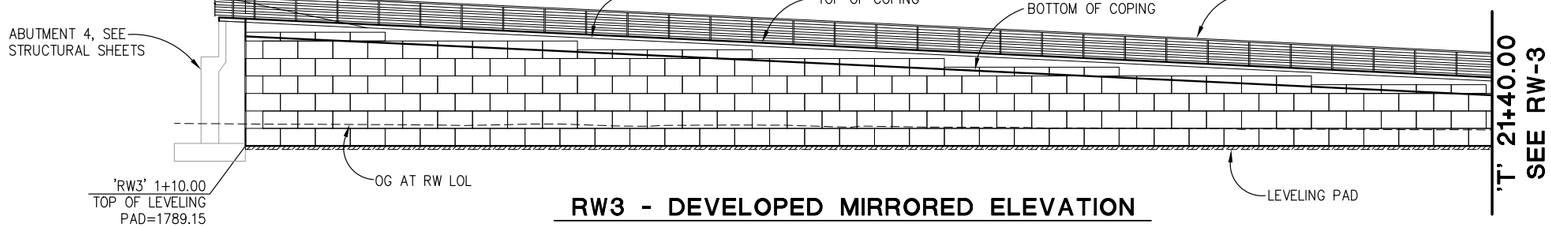
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

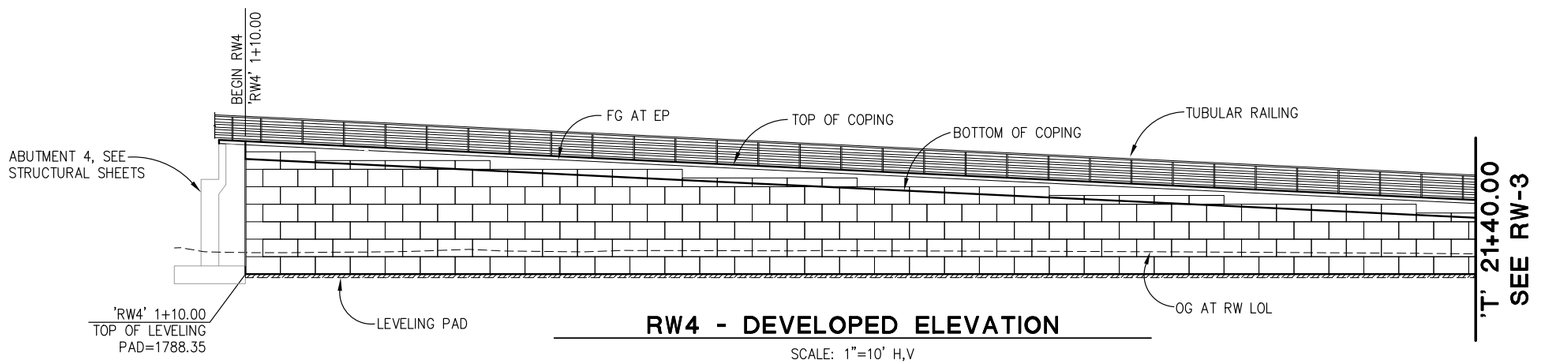
SHEET RW-1
19 OF 42
W.O. No. 97015



PLAN
SCALE: 1"=10'



RW3 - DEVELOPED MIRRORED ELEVATION
SCALE: 1"=10' H,V



RW4 - DEVELOPED ELEVATION
SCALE: 1"=10' H,V

'RW3' LOL

NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L7	27.06		N 86° 34' 27" E	
C8	24.97	308.60	N 88° 54' 57" E – 24.97	4° 38' 12"
C9	18.73	300.02	S 86° 58' 37" E – 18.73	3° 34' 40"
L8	24.74		S 85° 11' 17" E	
L9	101.45		S 85° 51' 15" E	

'RW4' LOL

NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L11	27.06		N 85° 11' 19" E	
C11	23.62	285.73	N 87° 31' 43" E – 23.62	4° 44' 14"
C12	17.77	284.22	S 88° 18' 42" E – 17.77	3° 34' 56"
L12	24.74		S 86° 31' 14" E	
L13	101.45		S 85° 51' 15" E	

TOP OF COPING ELEVATION TABLE
RETAINING WALL 'RW3' & 'RW4'

'RW3' LINE STATION	TOP OF COPING ELEVATION	'RW4' LINE STATION	TOP OF COPING ELEVATION
'RW3' 1+10.00 (BEGIN)	1807.06	'RW4' 1+10.00 (BEGIN)	1807.06
'RW3' 1+20	1806.59	'RW4' 1+20	1806.59
'RW3' 1+40	1805.66	'RW4' 1+40	1805.63
'RW3' 1+60	1804.74	'RW4' 1+60	1804.65
'RW3' 1+80	1803.80	'RW4' 1+80	1803.69
'RW3' 2+00	1802.85	'RW4' 2+00	1802.74
'RW3' 2+20	1801.90	'RW4' 2+20	1801.79
'RW3' 2+40	1800.95	'RW4' 2+40	1800.84
'RW3' 2+60	1800.00	'RW4' 2+60	1800.00
'RW3' 2+80	1799.05	'RW4' 2+80	1798.94

ELEVATION LEGEND:

- — FULL CAP BLOCK (1.25' x 2.5' x 5')
- — FULL BLOCK (2.5' x 2.5' x 5')
- — HALF BLOCK (2.5' x 2.5' x 2.5')
- — CONCRETE LEVELING PAD (0.5' x 3')

RETAINING WALLS 3 & 4
SCALE : AS SHOWN

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\RW-Sheets.dwg Layout Tab: RW-2 Feb 05,2024 - 8:47am DHarrington

FOR REDUCED PLANS 0 1 2

REVISION NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE: 1/23/2024

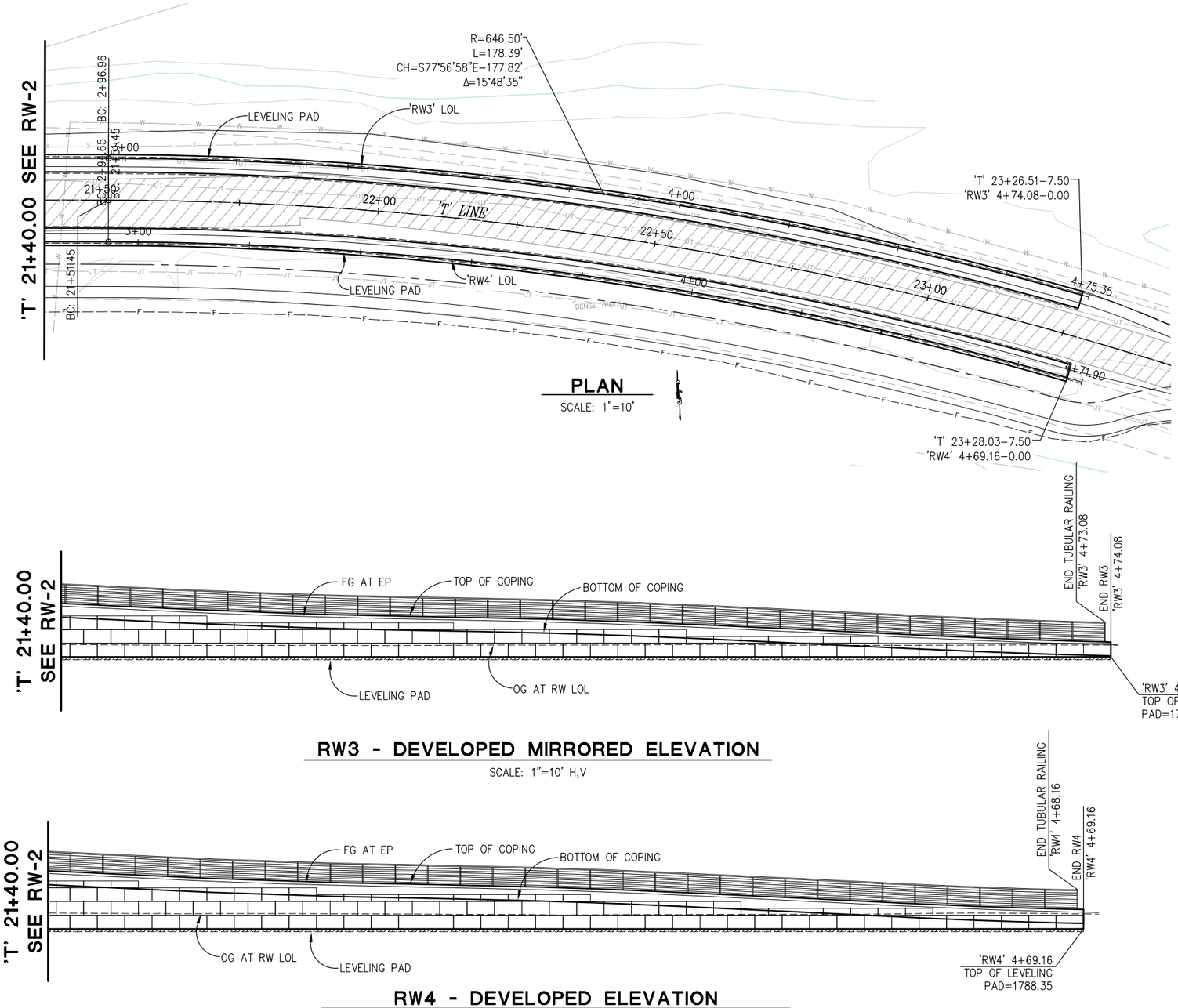
DESIGNED:	DRAWN:
DH	SM
CHECKED:	DATE:
DH	06/07/21
ROAD NUMBER:	
--	

EL DORADO COUNTY — CALIFORNIA

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET
RW-2
20 OF 42
W.O. No. 97015



PLAN

SCALE: 1"=10'

RW3 - DEVELOPED MIRRORED ELEVATION

SCALE: 1"=10' H,V

RW4 - DEVELOPED ELEVATION

SCALE: 1"=10' H,V

TOP OF COPING ELEVATION TABLE RETAINING WALL 'RW3' & 'RW4'			
'RW3' LINE STATION	TOP OF COPING ELEVATION	'RW4' LINE STATION	TOP OF COPING ELEVATION
'RW3' 3+00	1798.10	'RW4' 3+00	1797.99
'RW3' 3+20	1797.27	'RW4' 3+20	1797.16
'RW3' 3+40	1796.62	'RW4' 3+40	1796.55
'RW3' 3+48.51 (BEGIN LANDING)	1796.44	'RW4' 3+45 (BEGIN LANDING)	1796.45
'RW3' 3+59.64 (END LANDING)	1796.24	'RW4' 3+55.87 (END LANDING)	1796.24
'RW3' 3+60	1796.23	'RW4' 3+60	1796.15
'RW3' 3+80	1795.72	'RW4' 3+80	1795.58
'RW3' 4+00	1794.96	'RW4' 4+00	1794.74
'RW3' 4+20	1794.03	'RW4' 4+20	1793.78
'RW3' 4+40	1793.90	'RW4' 4+40	1792.82
'RW3' 4+60	1792.26	'RW4' 4+60	1792.06
'RW3' 4+74.08 (END)	1791.84	'RW4' 4+69.16 (END)	1791.84

ELEVATION LEGEND:

- — FULL CAP BLOCK (1.25' x 2.5' x 5')
- — FULL BLOCK (2.5' x 2.5' x 5')
- — HALF BLOCK (2.5' x 2.5' x 2.5')
- — CONCRETE LEVELING PAD (0.5' x 3')

RETAINING WALLS 3 & 4
SCALE : AS SHOWN

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\RW-Sheets.dwg Layout Tab: RW-3 Feb 05,2024 - 8:47am DHarrington

FOR REDUCED PLANS

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

REGISTERED PROFESSIONAL ENGINEER
DUSTIN W. HARRINGTON
No. C71517
License Expires 12-31-25
CIVIL
STATE OF CALIFORNIA

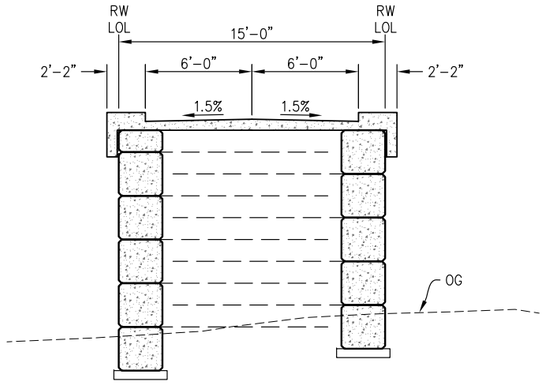
PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE: 1/23/2024

DESIGNED:	DRAWN:
DH	SM
CHECKED:	DATE:
DH	10/27/23
ROAD NUMBER:	--

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

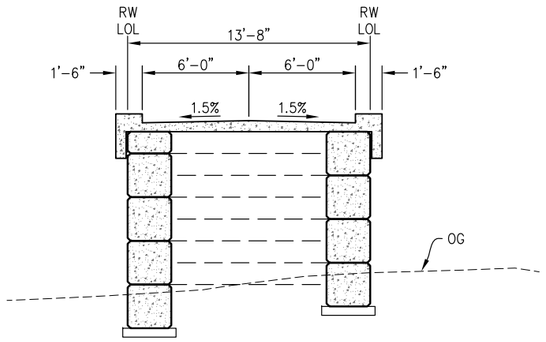
EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET RW-3
21 OF 42
W.O. No. 97015

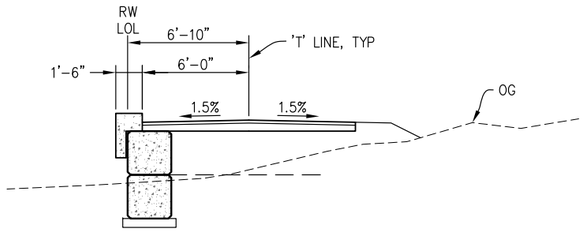


'T' 15+58± TO 'T' 15+88.90
(12'-0" ≤ "H" ≤ 14'-3")

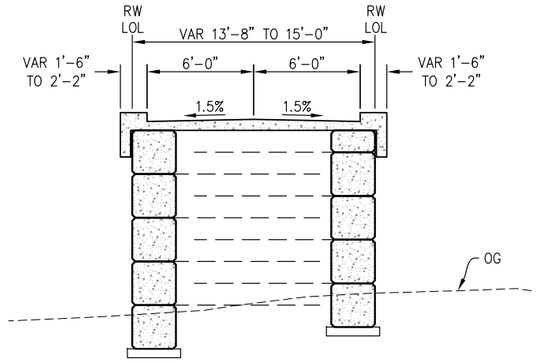
'T' 20+62± TO 'T' 20+97±
(12'-0"≤ "H" ≤ 13'-9")



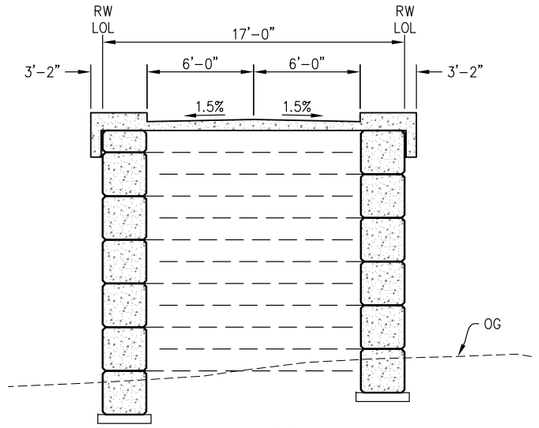
'T' 14+14 TO 15+34±
'T' 21+18± TO 'T' 22+71.49
("H"' ≤ 11'-0")



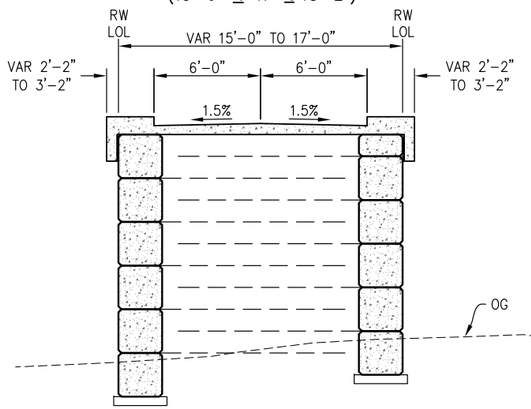
'T' 12+44.92 TO 'T' 14+14
("H" ≤ 8'-0")



'T' 15+34± TO 'T' 15+58±
'T' 20+97± TO 21+18±
(11'-0" ≤ "H" ≤ 12'-0")



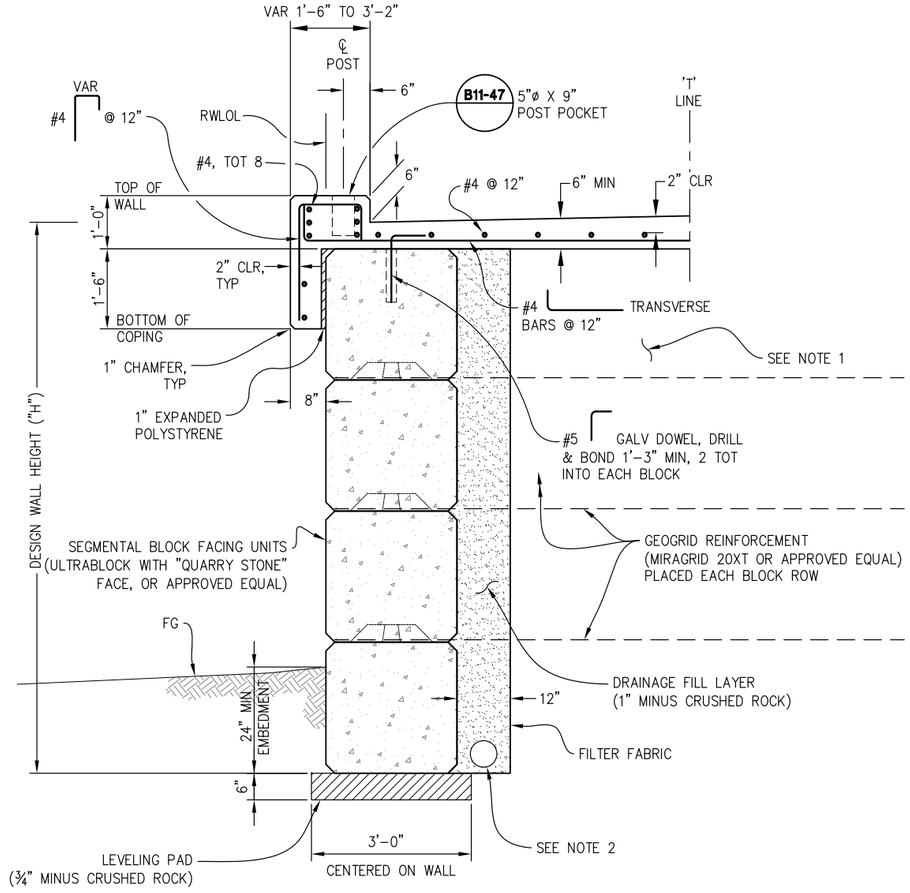
'T' 19+65.65 TO 'T' 20+23±
(15'-6" ≤ "H" ≤ 18'-2")



'T' 20+23± TO 'T' 20+62±
(13'-9" ≤ "H" ≤ 15'-6")

TYPICAL RETAINING WALL SECTIONS

1/4" = 1'-0"



RETAINING WALL DETAILS

3/4" = 1'-0"

NOTES:

1. SLURRY CEMENT BACKFILL MAY BE USED BETWEEN SLAB AND STRUCTURE BACKFILL ZONE. MAINTAIN MINIMUM 15" STRUCTURE BACKFILL (GRANULAR) MATERIAL ABOVE TOP GEOGRID REINFORCEMENT.
2. PERFORATED PLASTIC PIPE TO BE 8" DIA CORRUGATED HDPE OR 4" DIA SMOOTH WALL PVC.
3. TUBULAR RAILING NOT SHOWN FOR CLARITY.

RETAINING WALL SECTIONS & DETAILS
SCALE : AS SHOWN

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\RW-Sheets.dwg Layout Tab: RW-4 Mar 25,2024 - 5:02pm DHarrington

FOR REDUCED PLANS

REVISION NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — DUSTIN W. HARRINGTON — No. C71517 — License Expires 12-31-25 — CIVIL — STATE OF CALIFORNIA

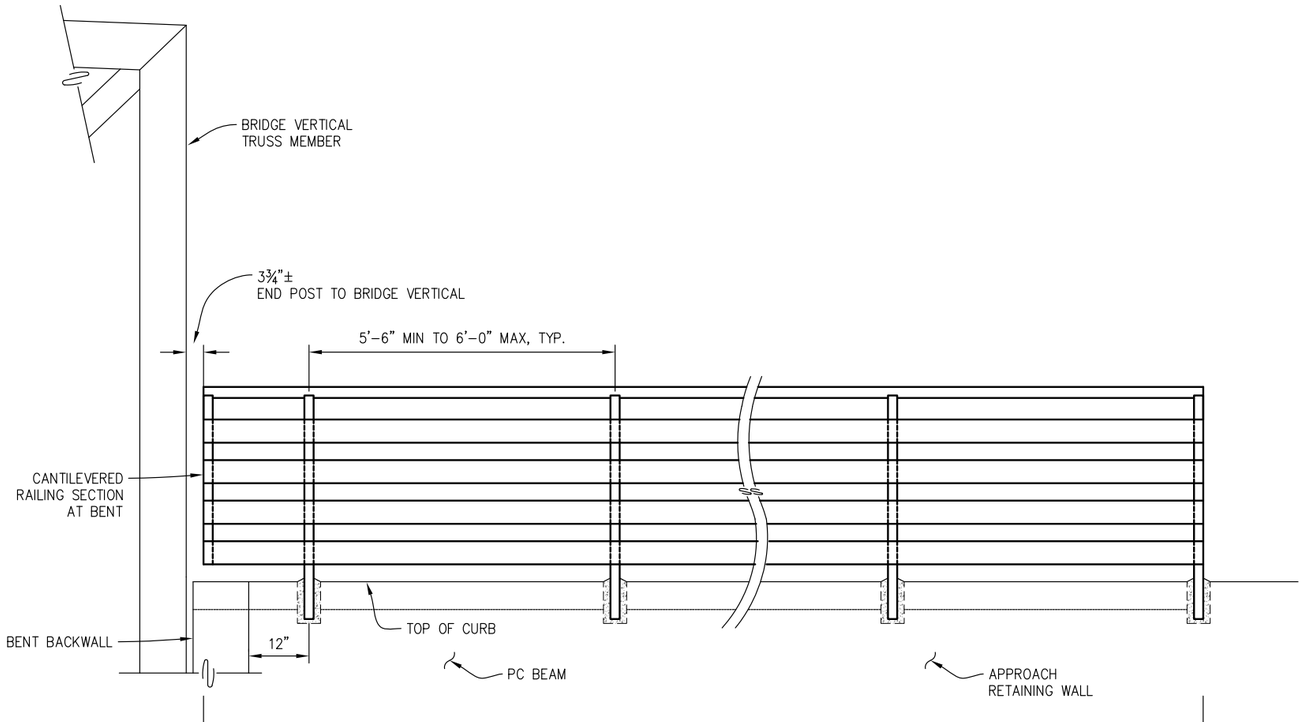
PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE: 4/9/2024

DESIGNED:	DRAWN:
DH	SM
CHECKED:	DATE:
DH	3/5/2024
ROAD NUMBER:	--

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

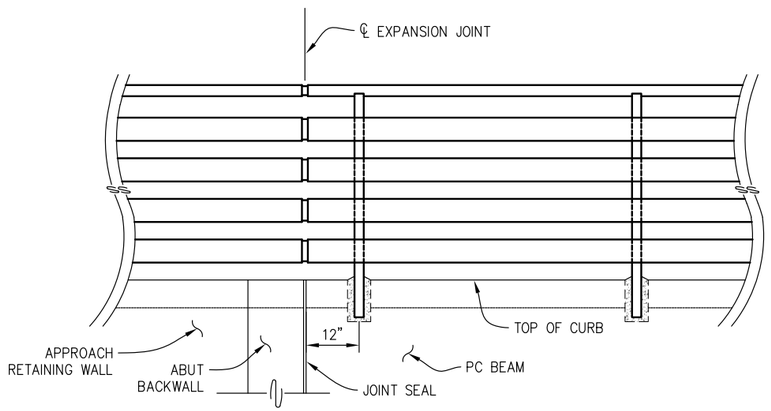
EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

SHEET RW-4
22 OF 42
W.O. No. 97015



ELEVATION

NO SCALE

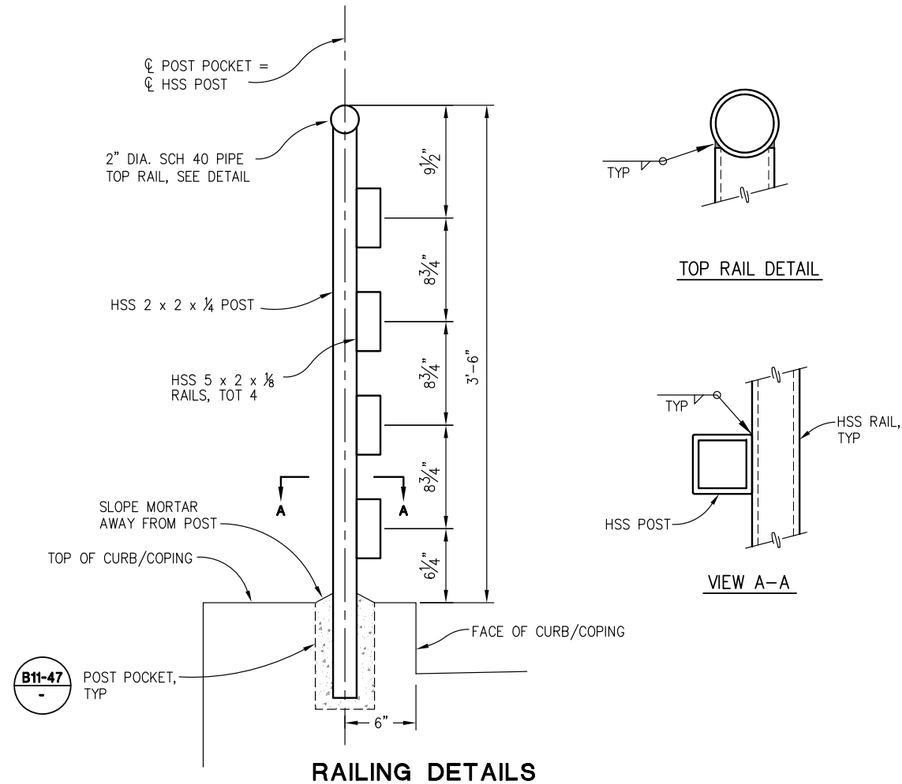


EXPANSION JOINT LOCATION

NO SCALE

GENERAL NOTES:

1. ALL HSS POSTS AND RAILS SHALL BE A847 WEATHERING STEEL.
2. RAIL TUBES SHALL BE SHOP BENT OR FABRICATED TO FIT HORIZONTAL AND VERTICAL CURVES.
3. POSTS SHALL BE VERTICAL.
4. HORIZONTAL RAILING MEMBERS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4 INCHES IN DIAMETER.

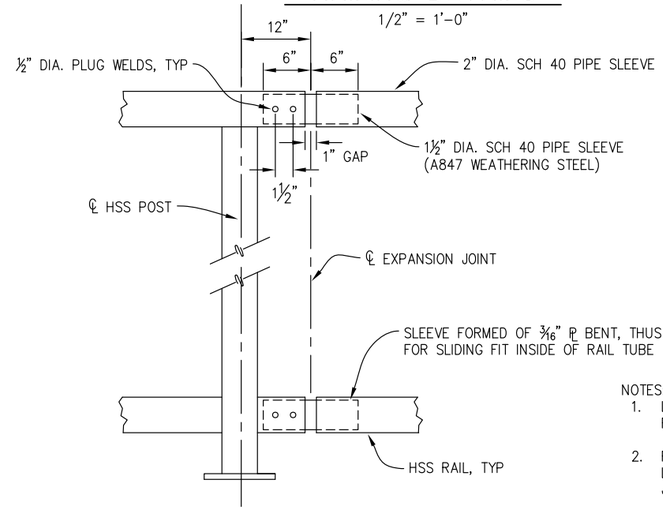


TOP RAIL DETAIL

VIEW A–A

RAILING DETAILS

1/2" = 1'–0"



EXPANSION JOINT DETAIL

NO SCALE

NOTES:

1. LOCATE PLUG WELDS ON OUTSIDE FACE OF RAILING.
2. RAILING EXPANSION JOINTS TO BE LOCATED AT ABUT 1 & ABUT 4 JOINT SEALS.
3. ALL RAILS NOT SHOWN FOR CLARITY.

TUBULAR RAILING DETAILS
SCALE : AS SHOWN

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\97015 El Dorado POC\CADD Files\Sheets\RW-Sheets.dwg Layout Tab: RW-5 Mar 25,2024 - 5:01pm DHarrington

0 1 2

FOR REDUCED PLANS

REVISION				
NUMBER	DATE	DESCRIPTION	BY	

DUSTIN W. HARRINGTON No. C71517 License Expires 12-31-25 CIVIL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: 4/9/2024

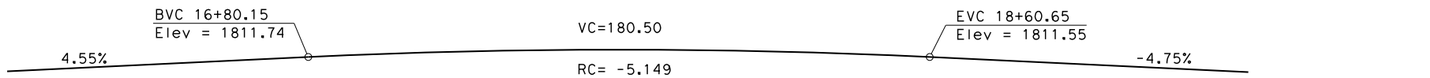
DESIGNED:	DRAWN:
DH	SM
CHECKED:	DATE:
DH	3/5/2024
ROAD NUMBER:	
--	

EL DORADO COUNTY CALIFORNIA

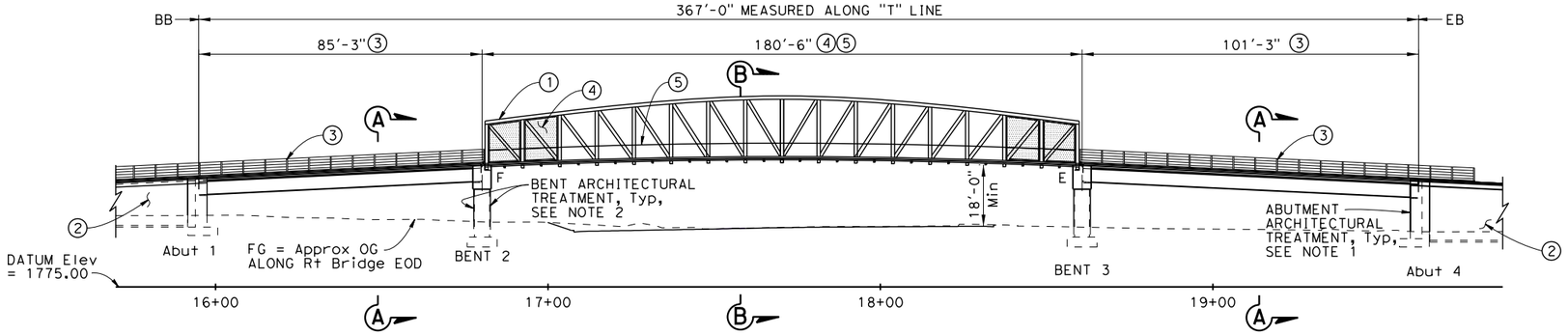
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL-
MISSOURI FLAT ROAD
BIKE/PEDESTRIAN OVERCROSSING
PHASE 2

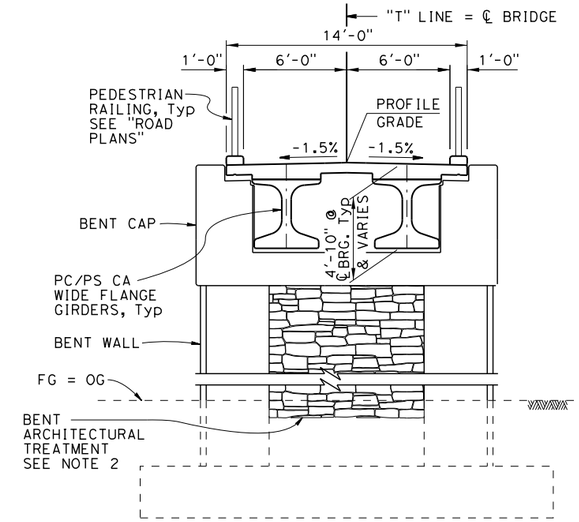
SHEET
RW-5
23 OF 42
W.O. No.
97015



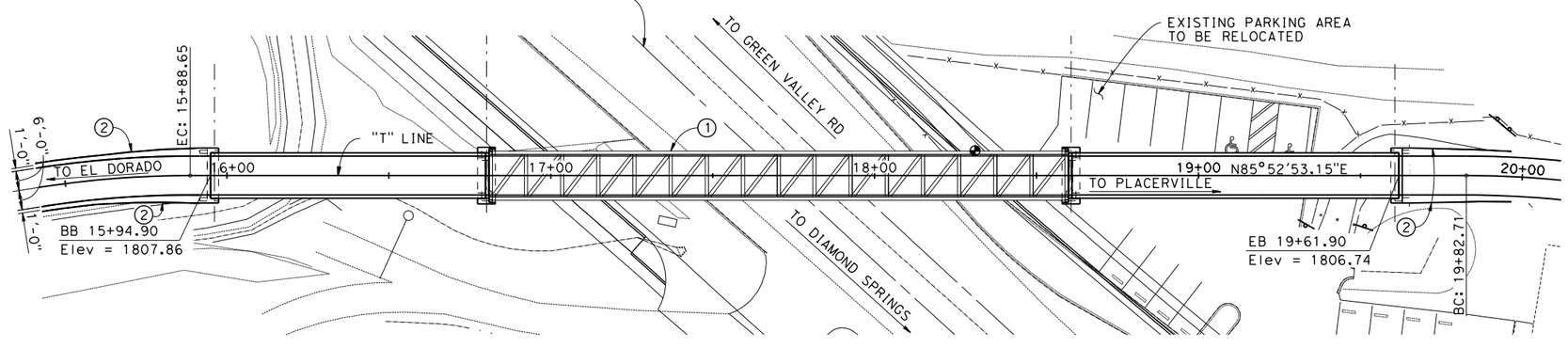
PROFILE GRADE
NO SCALE



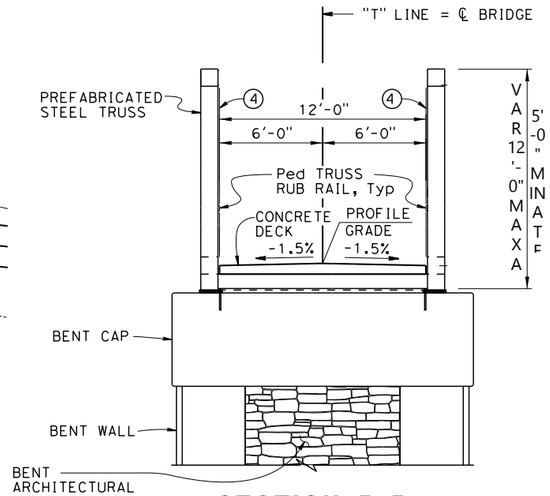
ELEVATION
1"=20'



SECTION A-A
¼"=1'-0"



PLAN
1"=20'



SECTION B-B
¼"=1'-0"

LEGEND:

1. Prefabricated Weathering Steel Truss
2. Approach Wall see "ROAD PLANS"
3. Pedestrian Railing see "ROAD PLANS"
4. Wire mesh panel, typical each bay
5. Pedestrian Truss Railing

◕ Indicates Point of Minimum Vertical Clearance

NOTES:

1. See "ABUTMENT 1 LAYOUT", "ABUTMENT 2 LAYOUT" and "ABUTMENT DETAILS NO. 3" sheets for limits of abutment architectural treatment.
2. See "BENT DETAILS NO. 3" sheet for limits of bent architectural treatment.

GENERAL PLAN
SCALE AS SHOWN

T·Y LIN INTERNATIONAL
1545 RIVER PARK DRIVE, SUITE 201
SACRAMENTO, CA 95815

CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

REVISION NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — Michael Wolohan — No. 67743 — Exp. 6/30/25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER — DATE: 1/23/2024

DESIGNED:	DRAWN:
M. W.	H.H.
CHECKED:	DATE:
P. B.	3/6/2020
ROAD NUMBER:	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-1
24 OF 42
W.O. No.

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES USERNAME =>michael.wolohan@AECOM PLOTTED => 1/23/2024 TIME PLOTTED => 6:53:53 PM
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GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

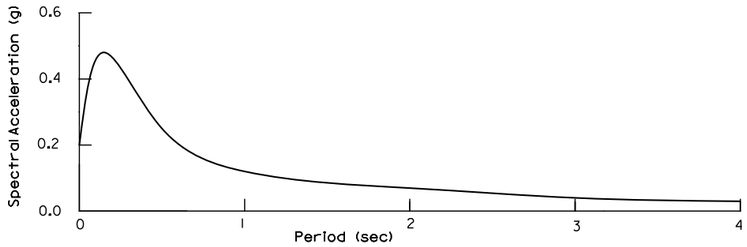
DESIGN: AASHTO LRFD Bridge Design Specifications, 6th Edition and the Caltrans Amendments, preface dated January 2014

AASHTO LRFD Guide Specification for the Design of Pedestrian Bridges, December 2009 with 2015 Interims

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC) Version 2.0 April 2019

LIVE LOADING: H-10, 90 psf Pedestrian Live Load
Live load deflection shall not exceed L/360.

SEISMIC LOADING: Soil Profile: V_{S30} = 2493 ft/sec
Moment Magnitude: Mmax = 6.3±0.25
Peak Ground Acceleration 0.20g



ARS CURVE

REINFORCED CONCRETE: fy = 60 ksi
f'c = 3.6 ksi, (EXCEPT AS SHOWN ON "CONCRETE STRENGTHS AND TYPE LIMITS")
n = 8

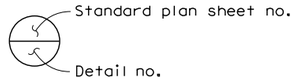
PRESTRESSED CONCRETE: See prestressing notes on "GIRDER LAYOUT NO. 1" sheet.

STRUCTURAL STEEL: TUBULAR SECTIONS - ASTM A847; fy = 50 ksi
PLATES & STRUCTURAL SHAPES - ASTM A709 GRADE 50W; fy = 50 ksi

STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER, 4.0 KSI @ 28 DAYS)
STRUCTURAL CONCRETE, BRIDGE (4.0 KSI @ 28 DAYS)
PC/PS CONCRETE GIRDER, SEE "GIRDER DETAILS"
STRUCTURAL CONCRETE, BRIDGE FOOTING (3.6 KSI @ 28 DAYS)

STANDARD PLANS DATED, 2022

DETAIL	DESCRIPTION
A3A	Abbreviations (sheet 1 of 3)
A3B	Abbreviations (sheet 2 of 3)
A3C	Abbreviations (sheet 3 of 3)
A10A	Legend-Lines and Symbols (sheet 1 of 5)
A10B	Legend-Lines and Symbols (sheet 2 of 5)
A10C	Legend-Lines and Symbols (sheet 3 of 5)
A10D	Legend-Lines and Symbols (sheet 4 of 5)
A10E	Legend-Lines and Symbols (sheet 5 of 5)
A62C	Limits of Payment for Excavation and Backfill - Bridge
RSP B0-1	Bridge Details
RSP B0-3	Bridge Details
B0-5	Bridge Details
B0-13	Bridge Details
B6-21	Joint Seals (Maximum Movement Rating = 2")
RSP B11-47	Cable Railing



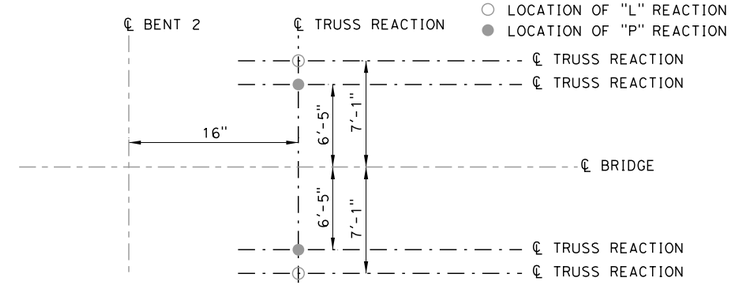
INDEX TO BRIDGE PLANS

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	320	CY
STRUCTURE BACKFILL (BRIDGE)	128	CY
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (80'-90')	2	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (100'-110')	2	EA
ERECT PRECAST PRESTRESSED CONCRETE GIRDER	4	EA
STRUCTURAL CONCRETE, BRIDGE FOOTING	108	CY
STRUCTURAL CONCRETE, BRIDGE	218	CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	183	CY
JOINT SEAL (MR 1/2")	60	LF
BAR REINFORCING STEEL (BRIDGE)	77,580	LB
MINOR CONCRETE (BRIDGE CURB)	7	CY
TUBULAR RAILING	1,888	LF
FURNISH & INSTALL PREFABRICATED STEEL TRUSS (VARIABLE DEPTH)	1	LS
ARCHITECTURAL TREATMENT	10,000	SF

Prefabricated Steel Truss Reactions			
	P (LBS)	H (LBS)	L (LBS)
Dead Load	78,400		
Uniform Live Load	53,200		
Vehicle Load	11,000		
Wind Uplift 20 psf	21,000		
Wind	±50,500	64,900	
Thermal			12,500

*All loads are unfactored
"P" Vertical Load at Each Base Plate (4 per Bridge)
"H" Horizontal Load at Each Footing (2 per Bridge)
"L" Longitudinal Load at Each Bearing (4 per Bridge)



PREFABRICATED STEEL TRUSS REACTION LOCATIONS
(BENT 2 SHOWN, BENT 3 SIMILAR)

CONCRETE STRENGTHS AND TYPE LIMITS
No Scale

INDEX TO PLANS
SCALE AS SHOWN

T-Y LIN INTERNATIONAL
1545 RIVER PARK DRIVE, SUITE 201
SACRAMENTO, CA 95815

CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER
Michael Wolohan
No. 67743
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER 1/23/2024
DATE:

DESIGNED:	DRAWN:
M. W.	H.H.
CHECKED:	DATE:
P. B.	3/6/2020
ROAD NUMBER:	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-2
25 OF 42
W.O. No.

FOR REDUCED PLANS
0 1 2 ORIGINAL SCALE IS IN INCHES
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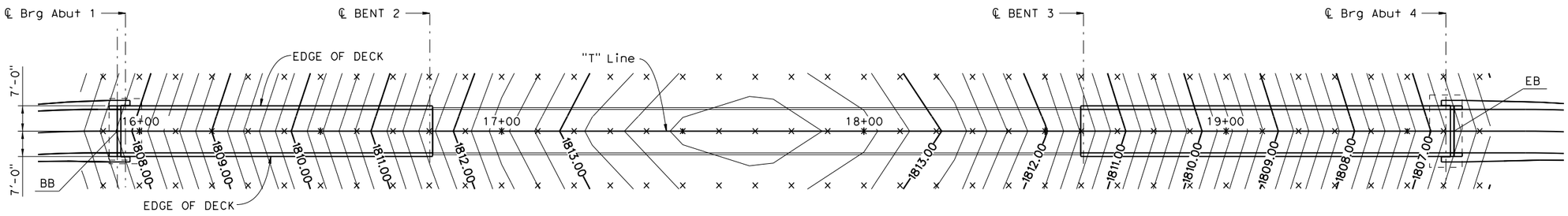

Notes:

1. Contour Intervals = 0.20 feet.
2. Contours do not include camber.
3. x - Indicates 10' interval measured along station line.

N

DECK CONTOURS

1"=15'

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES USERNAME => michael.wolohan@AECOM.com TIME PLOTTED => 5:43:43 PM
FILE => 710099-d-dc01.dgn TIME PLOTTED => 1/23/2024

T·Y LIN INTERNATIONAL

1545 RIVER PARK DRIVE, SUITE 201
SACRAMENTO, CA 95815

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PREPARED UNDER THE SUPERVISION OF :

Michael M. Wolohan

REGISTERED CIVIL ENGINEER 1/23/2024

DATE:

DESIGNED: M. W.	DRAWN: H.H.
CHECKED: P. B.	DATE: 3/6/2020
ROAD NUMBER:	

DECK CONTOURS
SCALE AS SHOWN

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

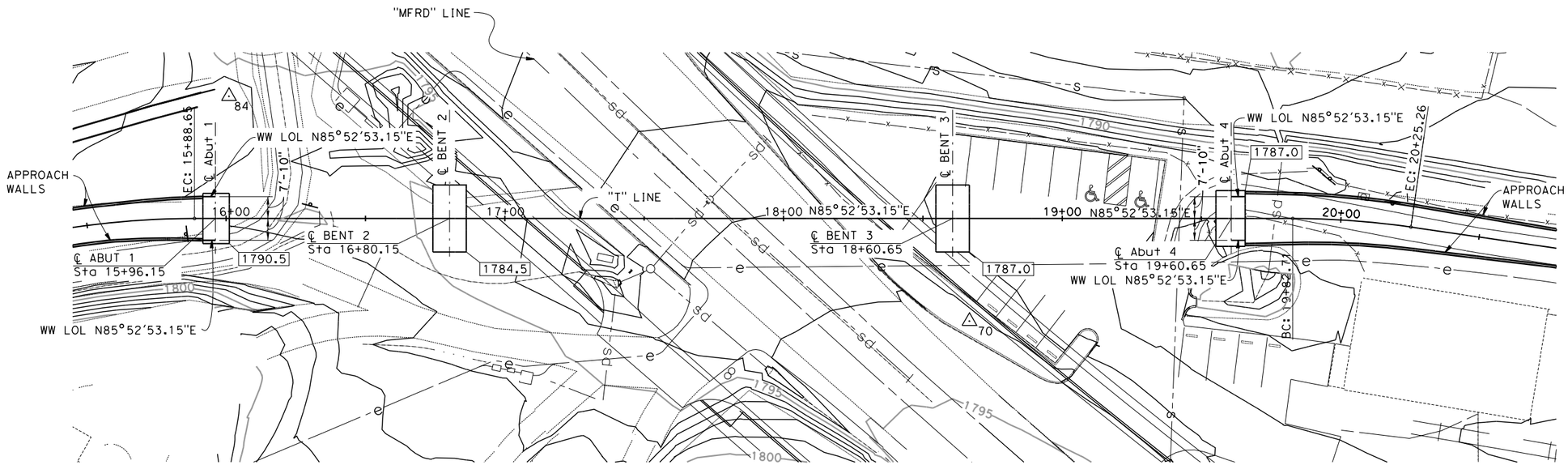
EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-3
26 OF 42
W.O. No.

SPREAD FOOTING DATA TABLE			
Location	SERVICE [2] PERMISSIBLE NET CONTACT STRESS (ksf)	STRENGTH/CONSTRUCTION [3] FACTORED GROSS NOMINAL BEARING RESISTANCE ϕ_b= 0.45 (ksf)	EXTREME EVENT [3] FACTORED GROSS NOMINAL BEARING RESISTANCE ϕ_b= 1.00 (ksf)
Abut 1	22.5	9.5	N/A
BENT 2	20.0	21.9	19.0
BENT 3	22.0	22.9	21.1
Abut 4	10.5	7.4	N/A

Notes:

1. Stresses and resistances were calculated for controlling load combinations.
2. Controlling load combination for Service Limit State is the one resulting in the highest ratio of $q_{n,u}/q_{pn}$ for foundations on soil.
3. For Strength, Construction, and Extreme Event limit States, controlling load combination is the one resulting in the highest ratio of $q_{g,u}/q_R$ for foundations on soil.



		NORTHING	EASTING
①	℄ Abut 1 Sta 15+96.15	2020188.98	6896435.65
②	℄ Abut 4 Sta 19+60.65	2020215.16	6896799.21

Legend:

- Indicates bottom of footing elevation
- Indicates New Structure
- Indicates Survey Control Point
- —e— Underground Electrical
- —sd— Storm Drain
- —s— Sanitary Sewer

FOUNDATION PLAN
SCALE 1"=20'

T.Y.LIN INTERNATIONAL
1545 RIVER PARK DRIVE, SUITE 201
SACRAMENTO, CA 95815

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REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — Michael Wolohan — No. 67743 — Exp. 6/30/25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER 1/23/2024
DATE:

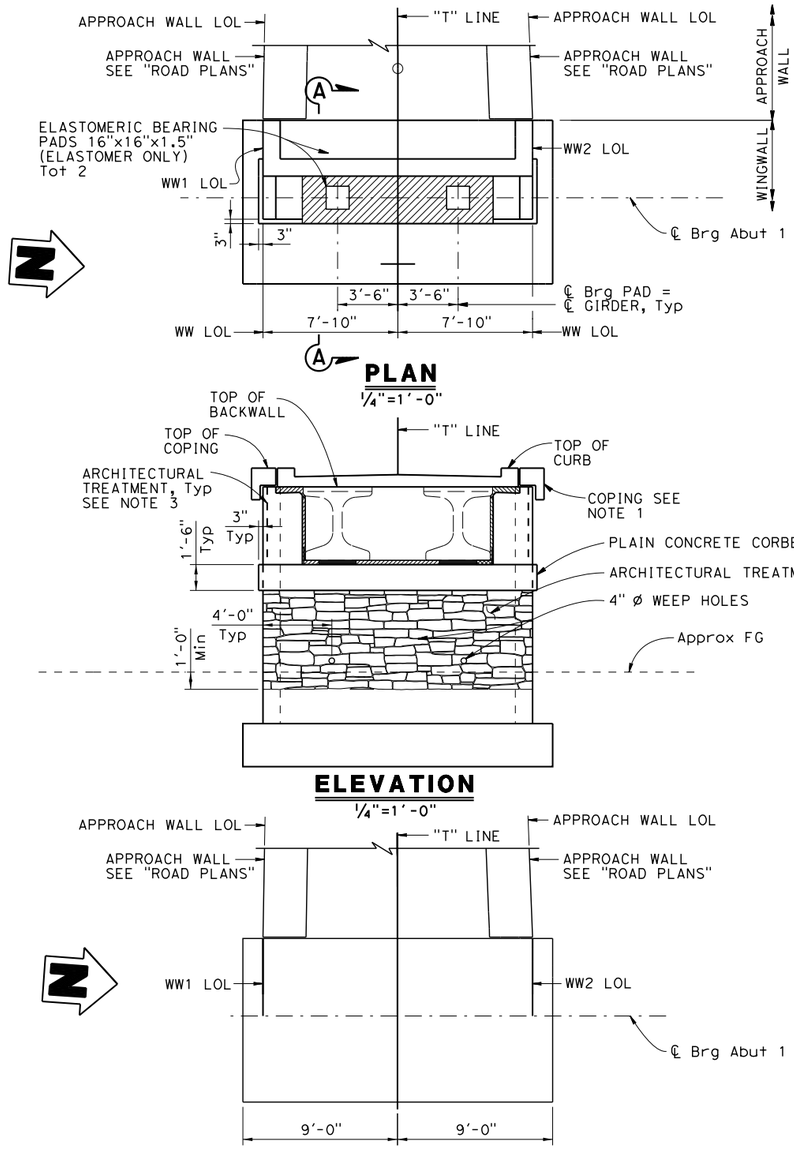
DESIGNED:	DRAWN:
M. W.	H.H.
CHECKED:	DATE:
P. B.	3/6/2020
ROAD NUMBER:	

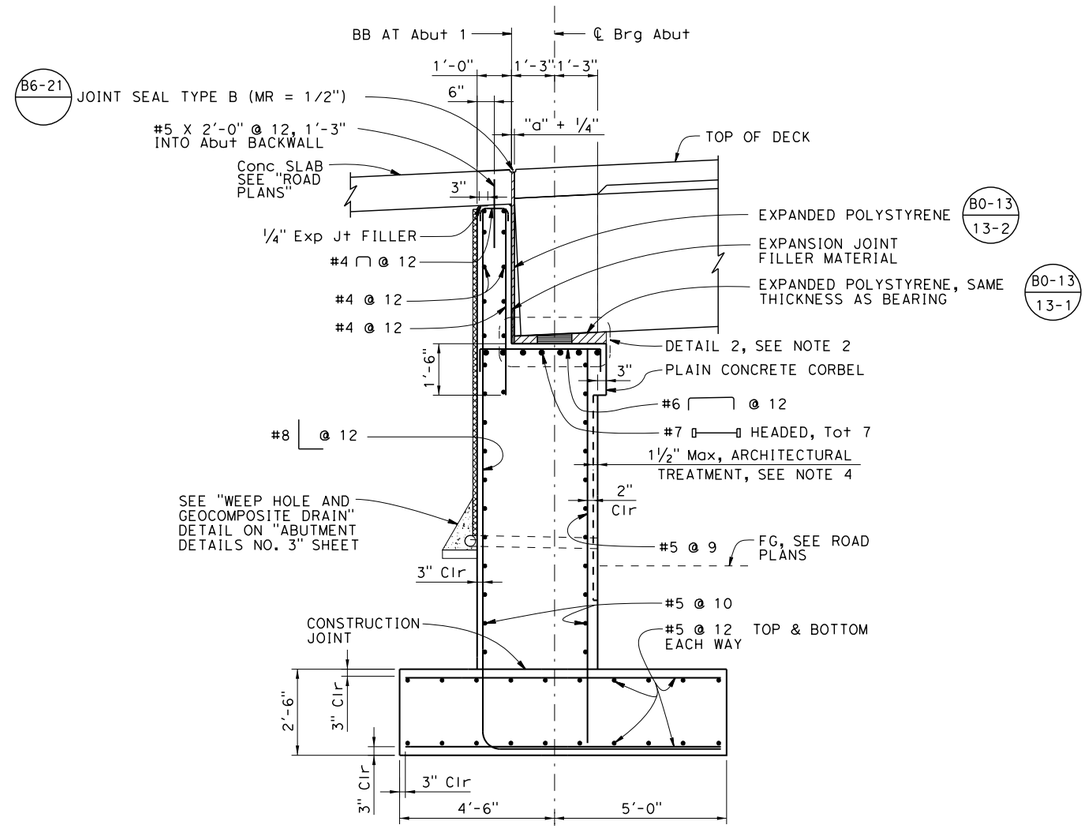
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-4
27 OF 42
W.O. No.

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES USERNAME =>michael.w@DATA FILE =>710099-e-fnp101.dgn TIME PLOTTED => 5:50:44 PM 1/23/2024





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

NOTES:

1. For Coping details see "ABUTMENT DETAILS NO. 2" sheet.
2. For Detail 2 see "ABUTMENT DETAILS NO. 3" sheet.
3. For limits of architectural treatment on wingwalls, see "ABUTMENT ARCHITECTURAL TREATMENT LIMITS" on "ABUTMENT DETAILS NO. 3" sheet.
4. Limits of architectural treatment shall extend 1'-0" Min below FG.

LEGEND:

DENOTES LIMITS OF ARCHITECTURAL TREATMENT

ABUTMENT 1 LAYOUT
SCALE AS SHOWN

FOR REDUCED PLANS
0 1 2 ORIGINAL SCALE IS IN INCHES USERNAME =>michael.w@TYLIN.COM TIME PLOTTED => 5:54:34 PM
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Michael Wolohan
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Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

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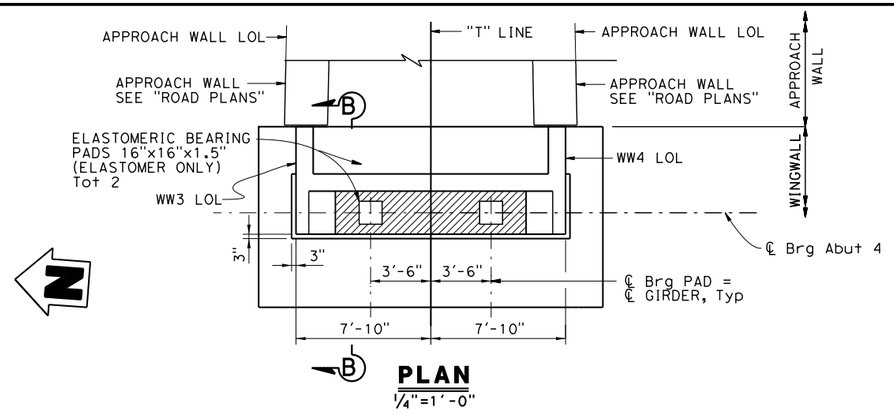
EL DORADO COUNTY CALIFORNIA

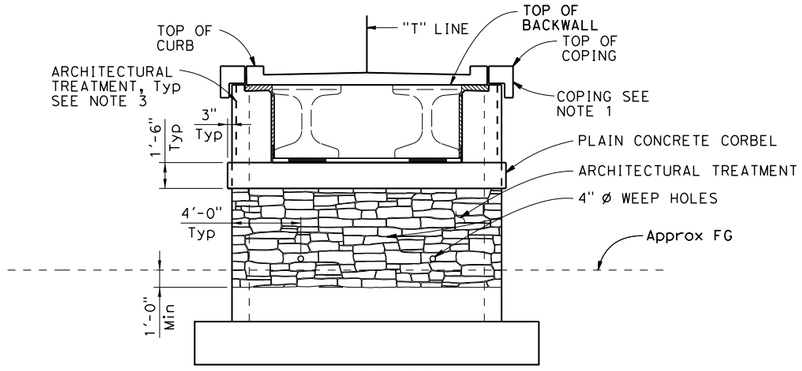
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

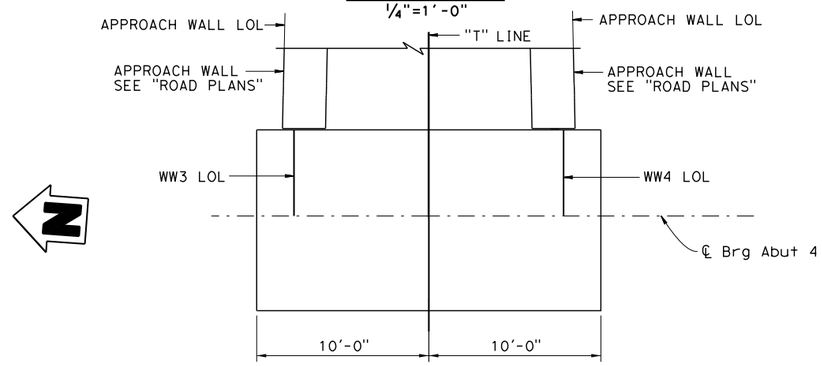
SHEET
S-5
28 OF 42
W.O. No.



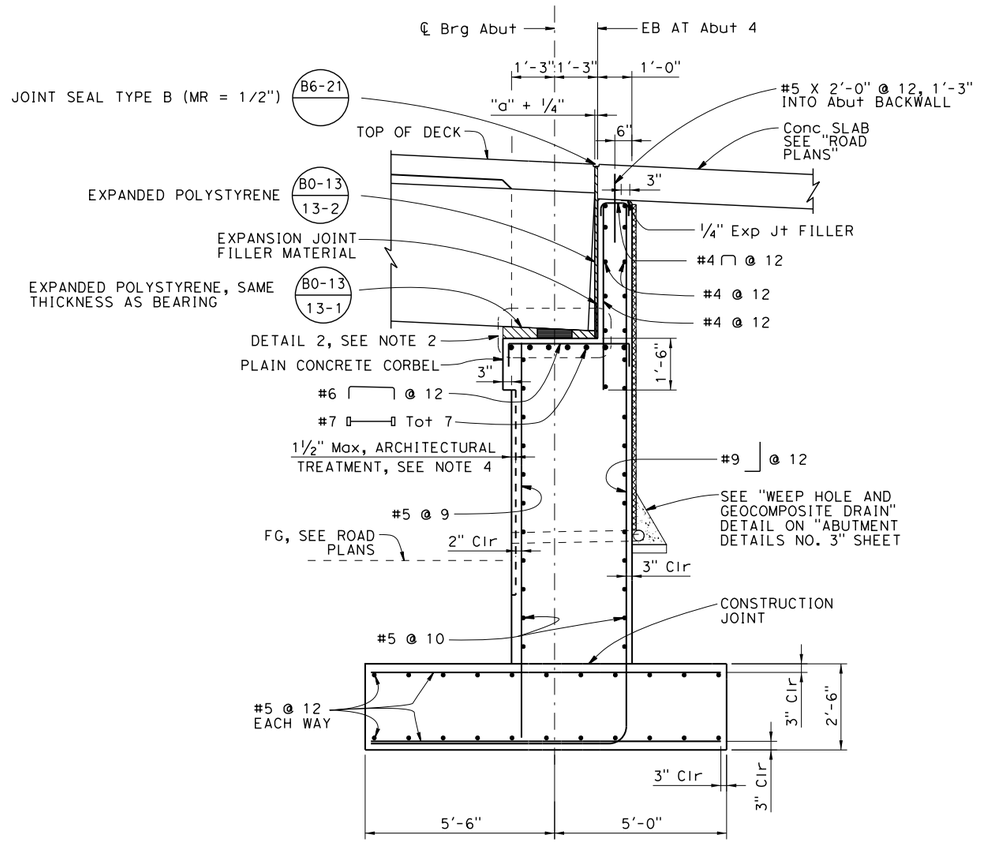
PLAN
1/4"=1'-0"



ELEVATION
1/4"=1'-0"



FOOTING PLAN
1/4"=1'-0"



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

NOTES:

1. For Coping details see "ABUTMENT DETAILS NO. 2" sheet.
2. For Detail 2 see "ABUTMENT DETAILS NO. 3" sheet.
3. For limits of architectural treatment on wingwalls, see "ABUTMENT ARCHITECTURAL TREATMENT LIMITS" on "ABUTMENT DETAILS NO. 3" sheet.
4. Limits of architectural treatment shall extend 1'-0" Min below FG.

LEGEND:

DENOTES LIMITS OF ARCHITECTURAL TREATMENT

ABUTMENT 4 LAYOUT
SCALE AS SHOWN

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SACRAMENTO, CA 95815

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CHECKED:	DATE:
P. B.	3/6/2020
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COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-6
29 OF 42
W.O. No.

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES USERNAME => michael.wolohan@tylin.com PLOTTED => 1/23/2024 TIME PLOTTED => 5:58:28 PM
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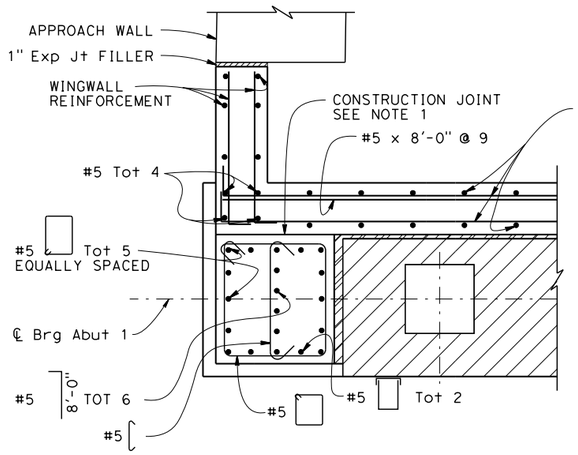
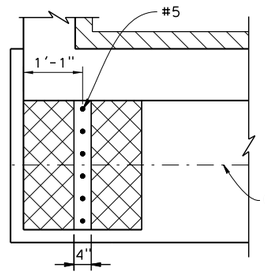


SECTION C-C

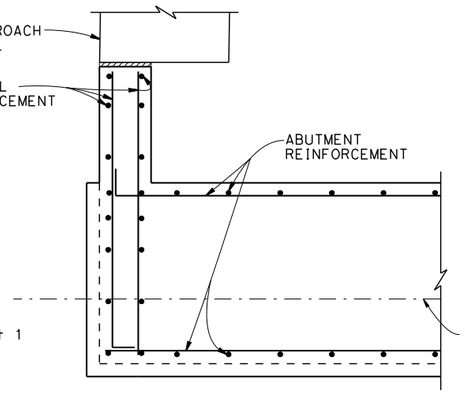
¾"=1'-0"

Indicates limits of 15 pound construction paper



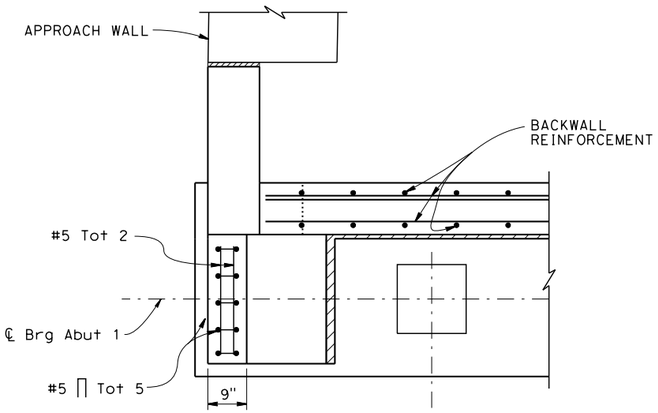
SECTION D-D

¾"=1'-0"



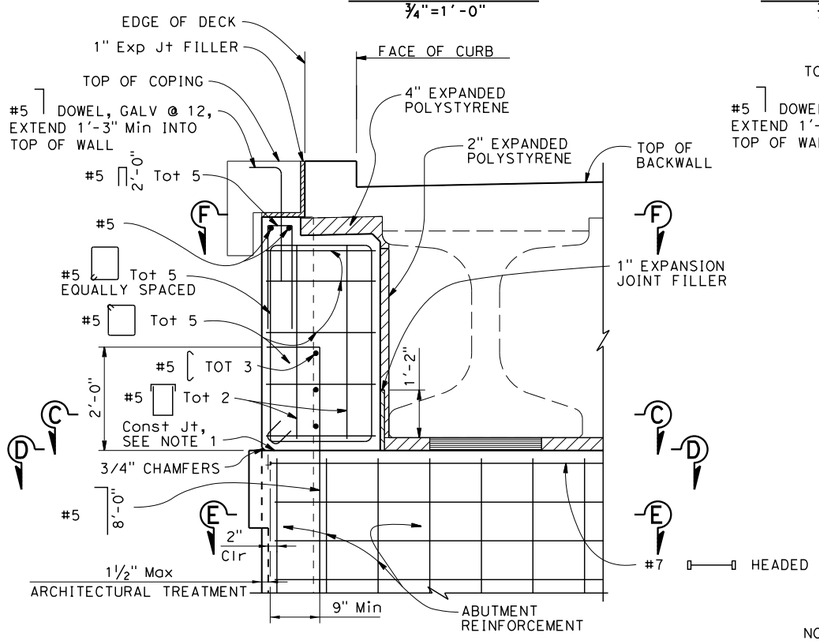
SECTION E-E

¾"=1'-0"



SECTION F-F

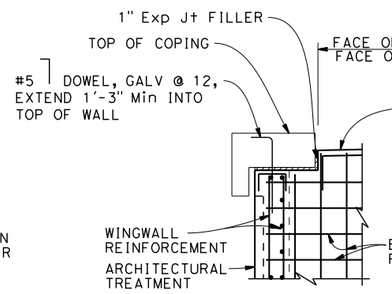
¾"=1'-0"



SHEAR KEY DETAIL

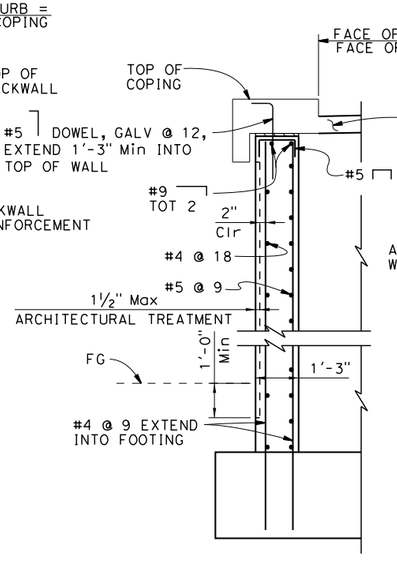
¾"=1'-0"

(ABUTMENT 1 SHOWN, ABUTMENT 4 SIMILAR)



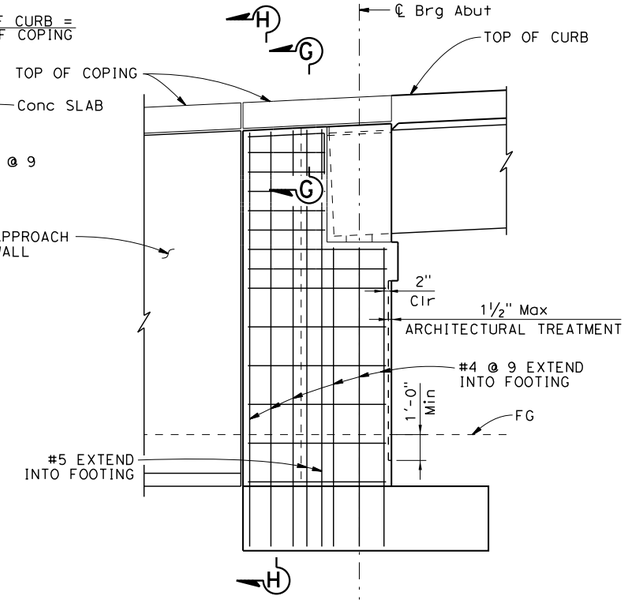
SECTION G-G

½"=1'-0"



SECTION H-H

½"=1'-0"



WINGWALL ELEVATION

⅜"=1'-0"

(WW1 & WW3 SHOWN, WW2 & WW4 SIMILAR)

NOTES:

1. Construction Joint, surface to be smooth finish and lined with 15 pound construction paper.
2. For details not shown, see B0-1
3. For Coping details see "ABUTMENT DETAILS NO. 2" sheet.
4. For CONCRETE SLAB details, see "ROAD PLANS".

ABUTMENT DETAILS NO. 1
SCALE AS SHOWN

TY-LIN INTERNATIONAL
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SACRAMENTO, CA 95815

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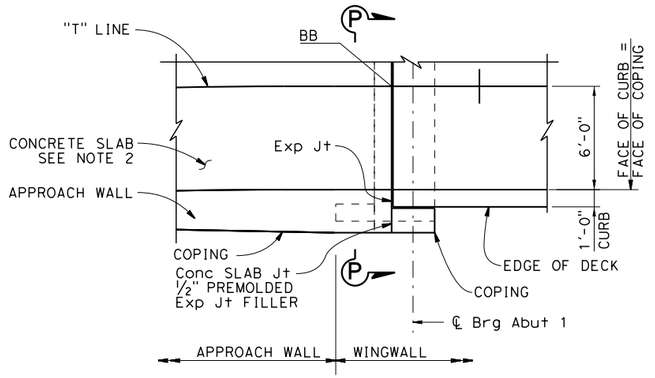
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

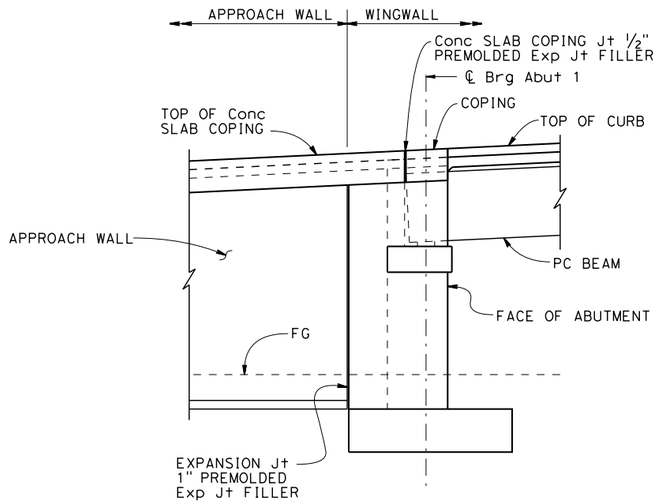
SHEET S-7
30 OF 42
W.O. No.



PART PLAN ABUT

¼"=1'-0"

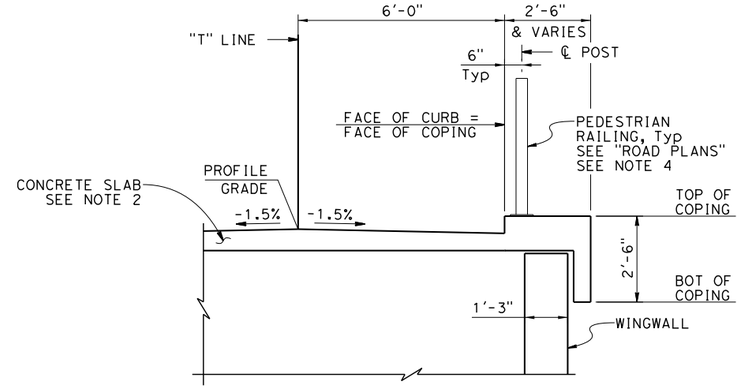
(ABUT 1 SHOWN, ABUT 4 SIMILAR)



WW ELEVATION

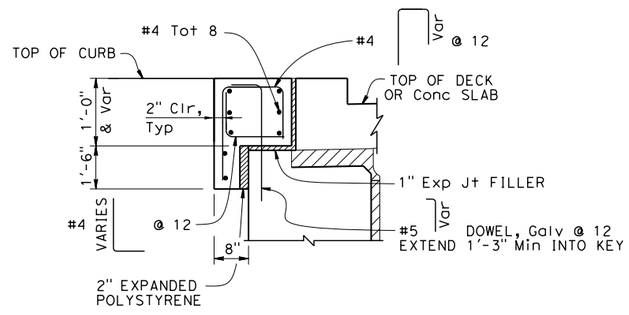
¼"=1'-0"

(WW1 SHOWN, OTHER WW's SIMILAR)



SECTION P-P

½"=1'-0"



COPING REINFORCEMENT DETAIL

No Scale

NOTES:

1. SEE "ROAD PLANS" FOR APPROACH WALL DETAILS.
2. SEE "ROAD PLANS" FOR CONCRETE SLAB DETAILS.
3. SEE "ABUTMENT ARCHITECTURAL TREATMENT LIMITS" ON "ABUTMENT DETAILS NO. 3" SHEET FOR LIMITS OF ARCHITECTURAL TREATMENT ON WINGWALLS.
4. Coordinate location of PEDESTRIAN RAILING joint with abutment joint, see "ROAD PLANS."

ABUTMENT DETAILS NO. 2
SCALE AS SHOWN

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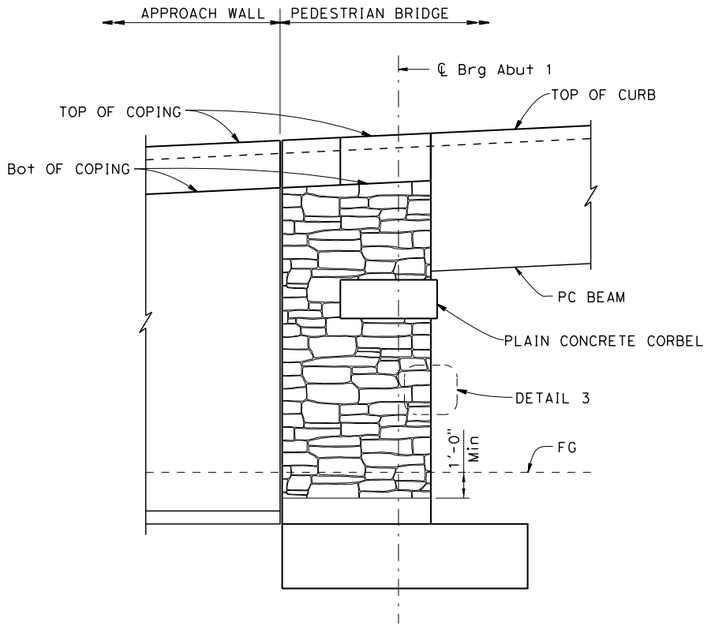
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-8
31 OF 42
W.O. No.



ABUTMENT ARCHITECTURAL TREATMENT LIMITS

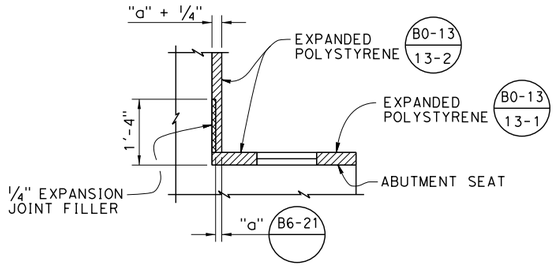
No Scale

(ABUTMENT 1 SHOWN, ABUTMENT 4 SIMILAR)

LEGEND:

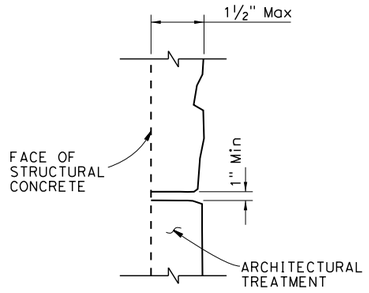
DENOTES LIMITS OF ARCHITECTURAL TREATMENT

NOTE: ARCHITECTURAL TREATMENT SHALL EXTEND 1'-0" BELOW FG.



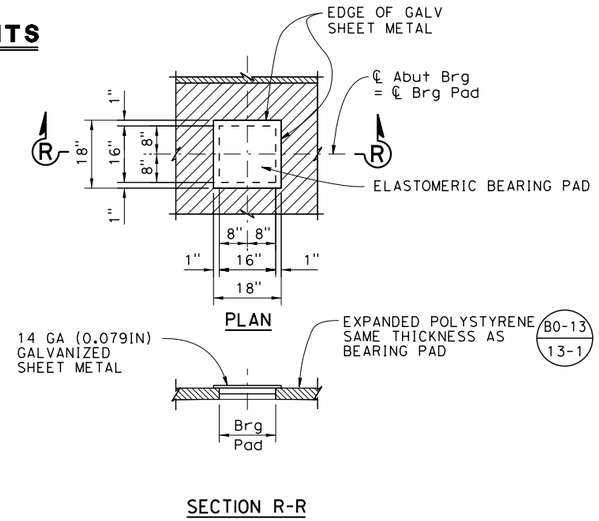
DETAIL 2

No Scale



DETAIL 3

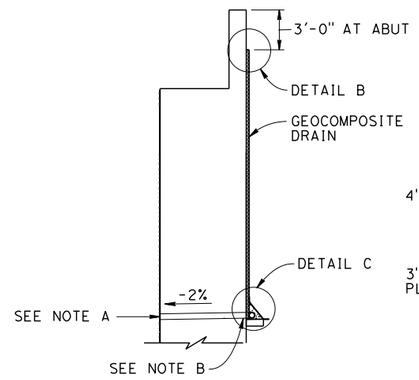
No Scale



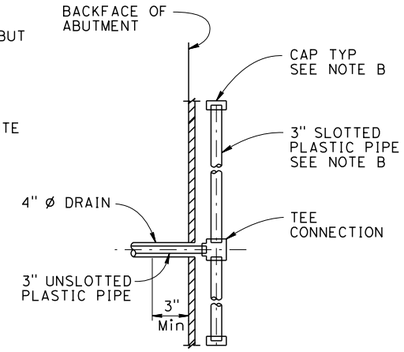
SECTION R-R

BEARING PAD DETAIL

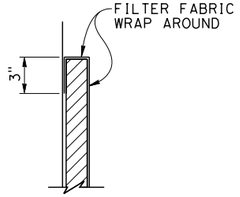
No Scale



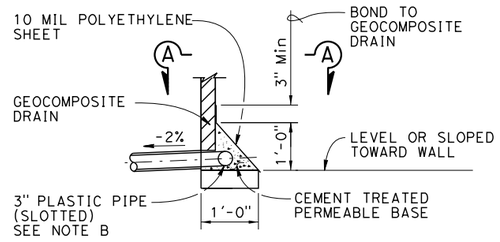
ABUTMENT



SECTION A-A



DETAIL B



DETAIL C

WEEP HOLE AND GEOCOMPOSITE DRAIN

No Scale

Notes:

A. 4" Ø drains at intermediate sag points and at 25'-0" Max. center to center. For walls adjacent to sidewalks or curbs, provide 4" Ø plastic pipe under sidewalk to discharge through curb face. Exposed wall drains shall be located 0'-3"± above finished grade.

B. Geocomposite drain, cement treated permeable base, and 3" Ø slotted plastic pipe continuous behind abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Ø casing.

C. Connect the low end of plastic pipe to the main outlet pipe as applicable.

ABUTMENT DETAILS NO. 3
SCALE AS SHOWN

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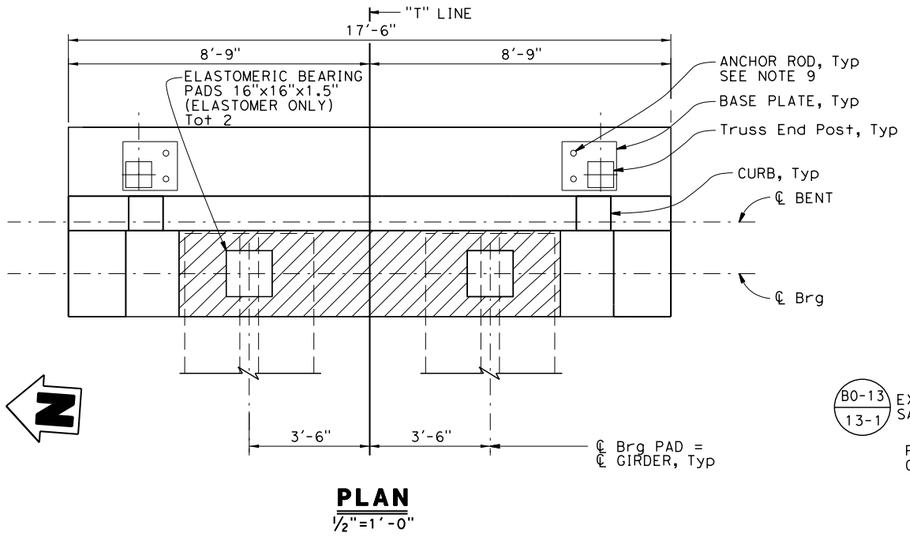
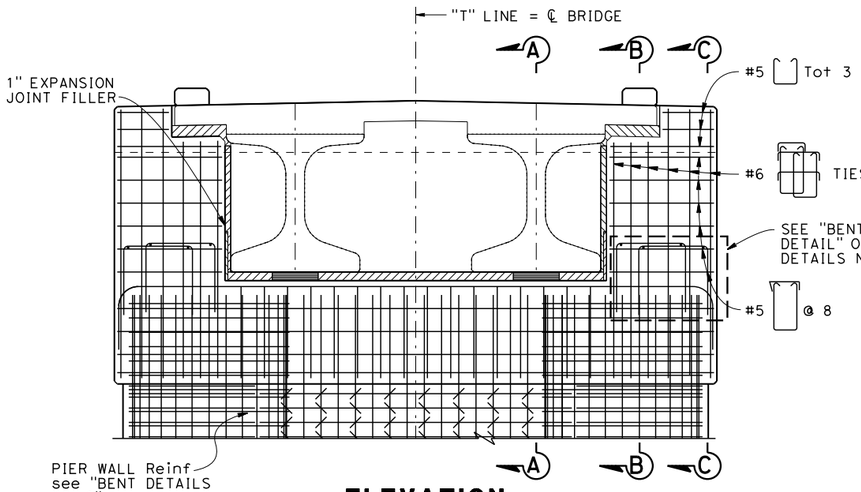
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

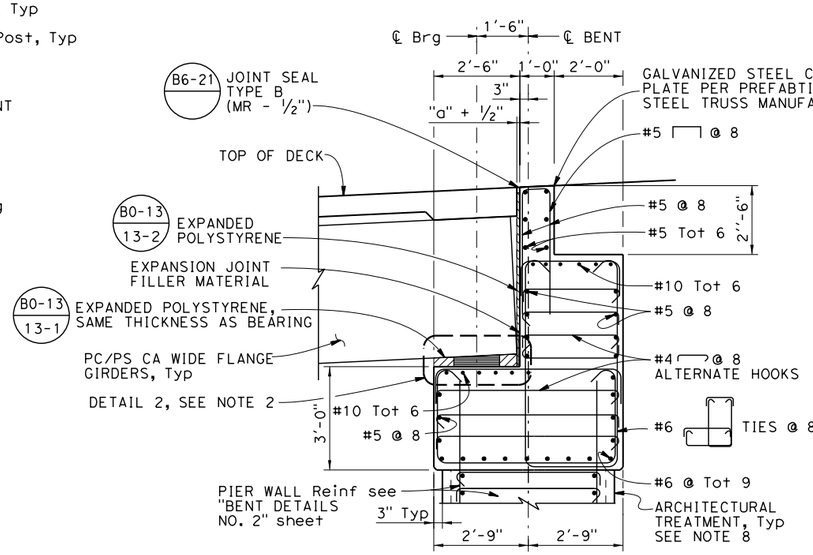
SHEET S-9
32 OF 42
W.O. No.



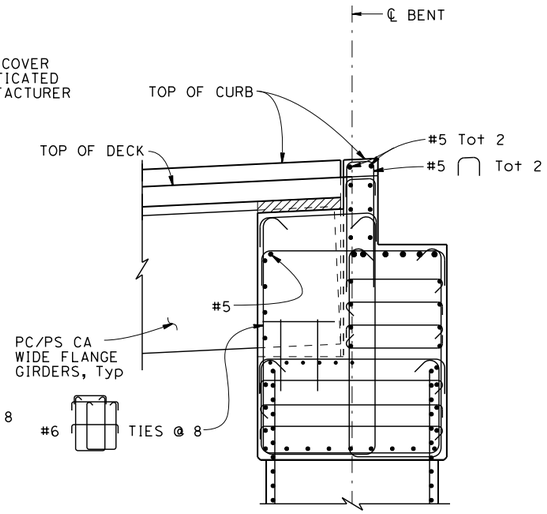
PLAN
½"=1'-0"



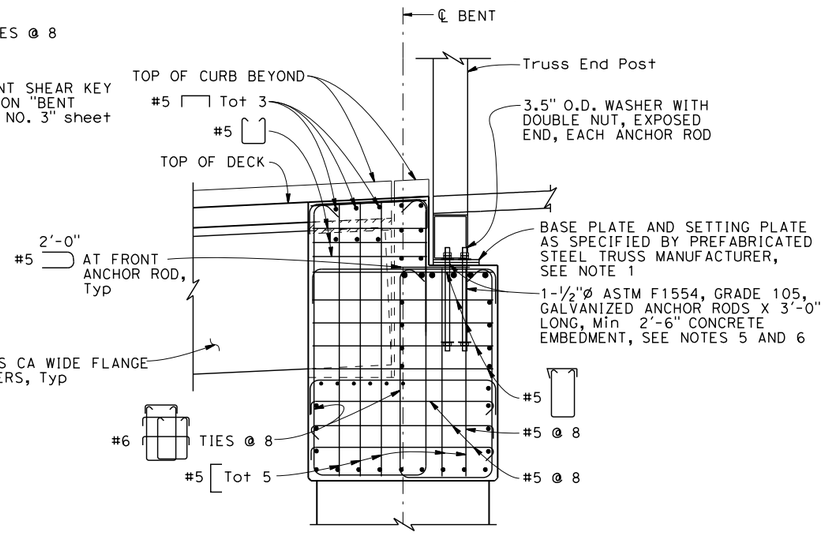
ELEVATION
½"=1'-0"



SECTION A-A
½"=1'-0"



SECTION B-B
½"=1'-0"
SEE NOTE 7



SECTION C-C
½"=1'-0"
SEE NOTE 7

NOTES:

1. Fixed end of truss at Bent 2. Expansion end of truss at Bent 3 with slotted holes to accommodate anticipated movement.
2. For Detail 2 see "ABUTMENT DETAILS NO. 3" sheet.
3. Span 2 is fixed at Bent 2.
4. Bent 2 shown, Bent 3 similar.
5. 3.5" O.D. washer with nut at anchored end of rod. Tack weld nut to anchor bolt and washer to nut.
6. Coordinate location of anchor bolts with PREFABRICATED STEEL TRUSS manufacturer. Minimum 9" edge distance to closest concrete face.
7. See "SECTION A-A" for additional reinforcing details.
8. See "BENT ARCHITECTURAL TREATMENT LIMITS: on "BENT DETAILS NO. 3" sheet.
9. Confirm location of anchor rods with STEEL TRUSS MANUFACTURER prior to placing concrete.

BENT DETAILS NO. 1
SCALE AS SHOWN

T·Y LIN INTERNATIONAL
1545 RIVER PARK DRIVE, SUITE 201
SACRAMENTO, CA 95815

CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

REVISION NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — Michael Wolohan — No. 67743 — Exp. 6/30/25 — CIVIL — STATE OF CALIFORNIA

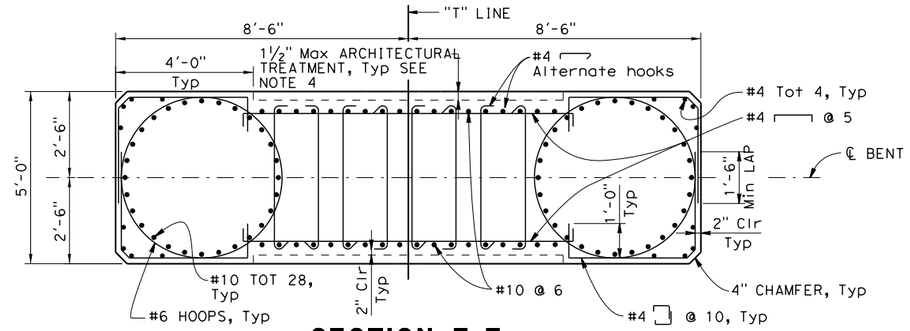
PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER 1/23/2024
DATE:

DESIGNED:	DRAWN:
M. W.	H.H.
CHECKED:	DATE:
P. B.	3/6/2020
ROAD NUMBER:	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

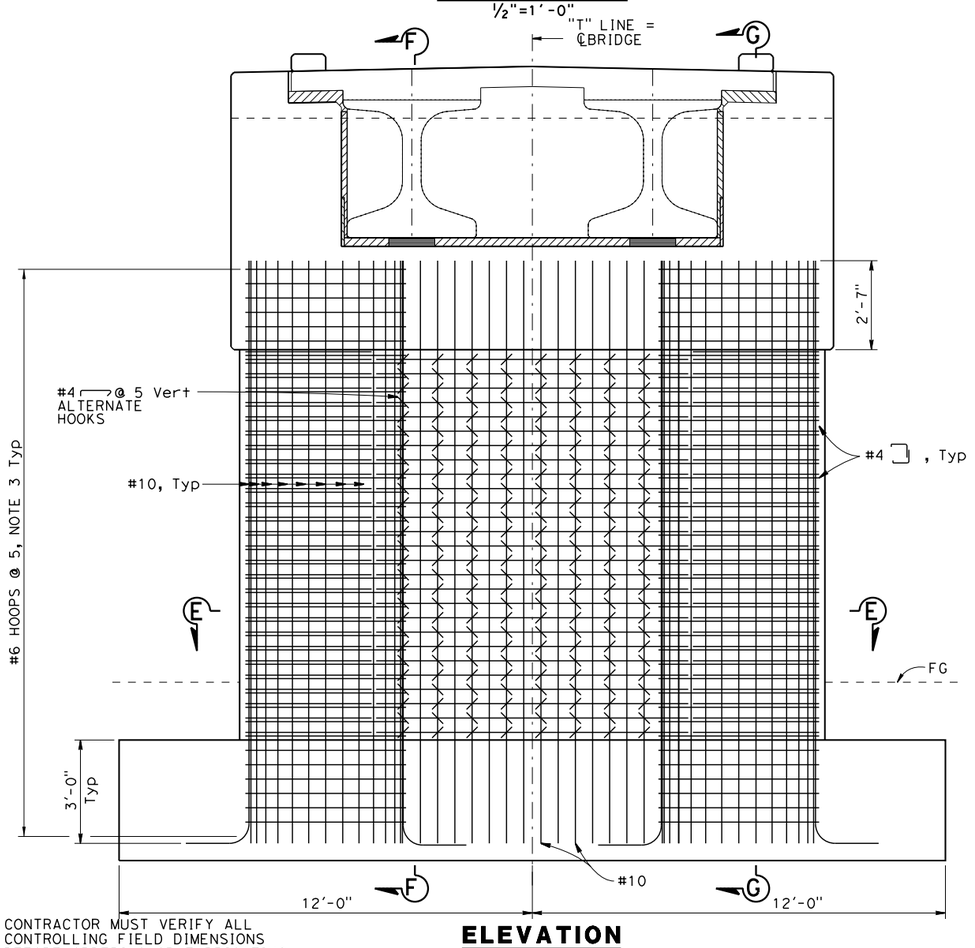
EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-10
33 OF 42
W.O. No.



SECTION E-E

½"=1'-0"

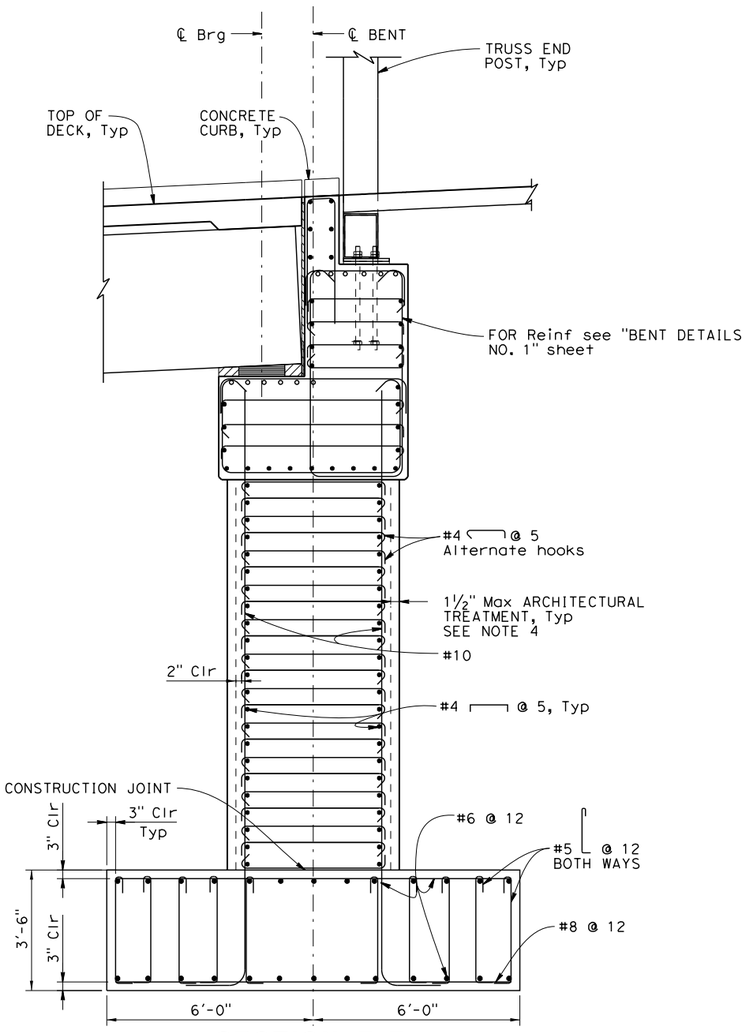


ELEVATION

½"=1'-0"

NOTES:

1. Bent 2 shown, Bent 3 similar.
2. For Section G-G, see "BENT DETAILS NO. 3" sheet.
3. Hoops shall be "ULTIMATE" butt spliced continous.
4. See "BENT ARCHITECTURAL TREATMENT LIMITS" on "BENT DETAILS NO. 3" sheet.



SECTION F-F

½"=1'-0"

BENT DETAILS NO. 2
SCALE AS SHOWN

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1545 RIVER PARK DRIVE, SUITE 201
SACRAMENTO, CA 95815

CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

REVISION NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — Michael Wolohan — No. 67743 — Exp. 6/30/25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER — DATE: 1/23/2024

DESIGNED:	DRAWN:
M. W.	H.H.
CHECKED:	DATE:
P. B.	3/6/2020
ROAD NUMBER:	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-11
34 OF 42
W.O. No.

FOR REDUCED PLANS
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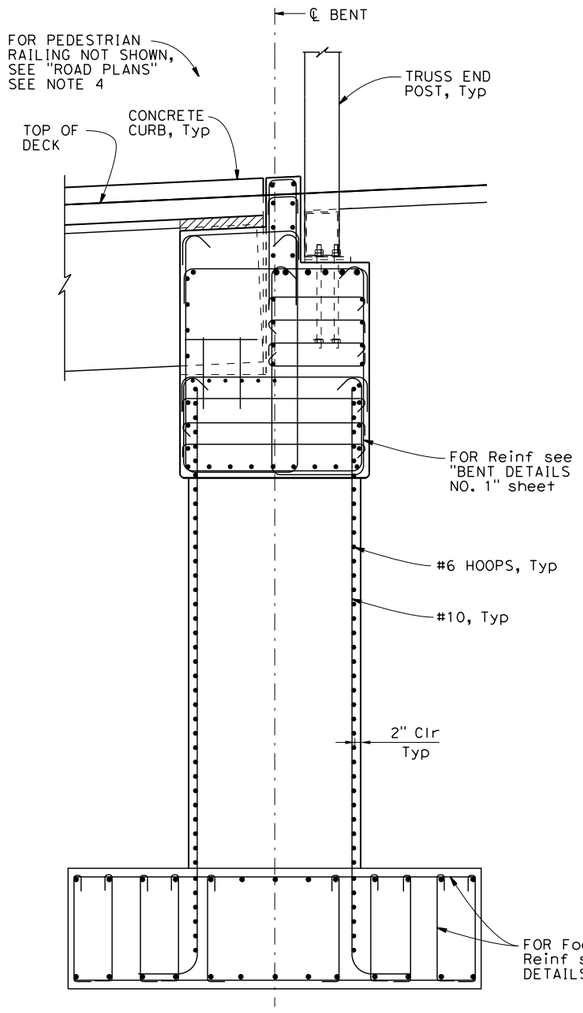
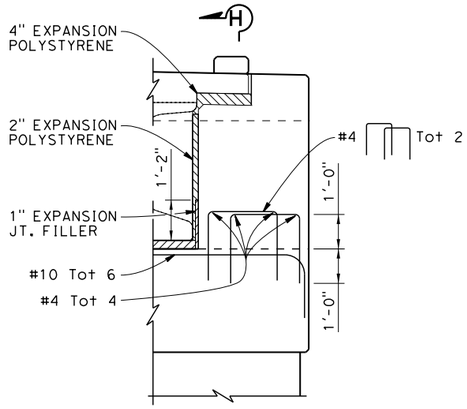


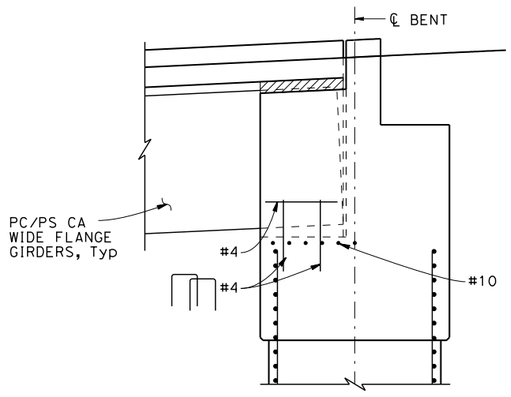
SECTION G-G

½"=1'-0"



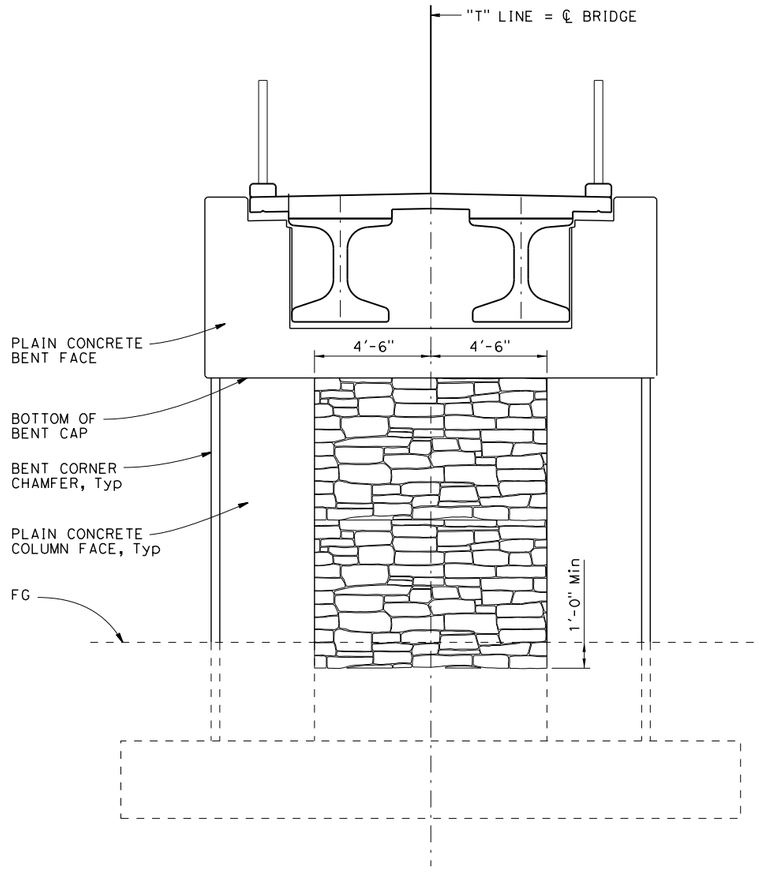
BENT SHEAR KEY DETAIL

½"=1'-0"



SECTION H-H

½"=1'-0"



BENT ARCHITECTURAL TREATMENT LIMITS

LEGEND:

DENOTES LIMITS OF ARCHITECTURAL TREATMENT

NOTES:

1. Bent cap reinforcement not shown for clarity.
2. Shear key face reinforcement not shown for clarity.
3. ARCHITECTURAL TREATMENT shall extend 1'-0" minimum below finish grade. See "ABUTMENT DETAILS NO. 3" sheet for additional details.
4. Coordinate location of PEDESTRIAN RAILING joint with PC/PS span expansion joint and begin and end of STEEL TRUSS span.

BENT DETAILS NO. 3
SCALE AS SHOWN

FOR REDUCED PLANS
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1545 RIVER PARK DRIVE, SUITE 201
SACRAMENTO, CA 95815

CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

REVISION NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — Michael Wolohan — No. 67743 — Exp. 6/30/25 — CIVIL — STATE OF CALIFORNIA

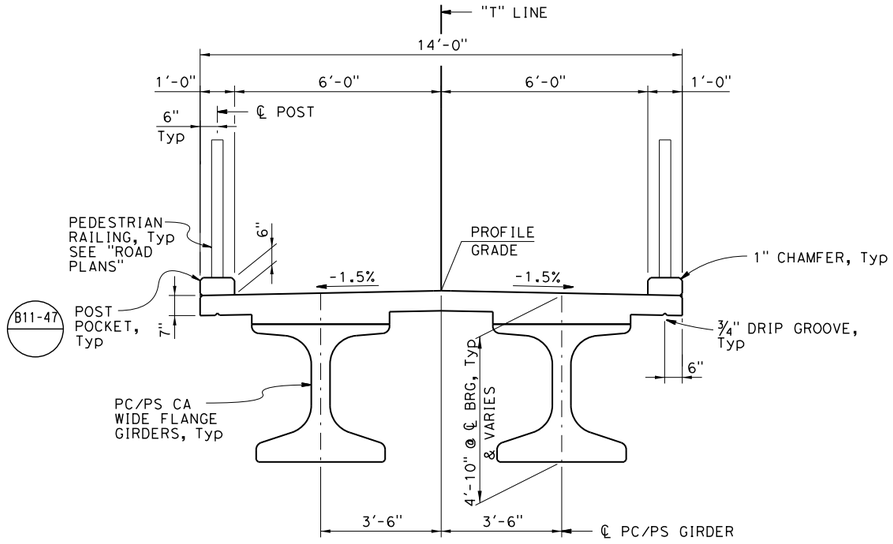
PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER 1/23/2024
DATE:

DESIGNED:	DRAWN:
M. W.	H.H.
CHECKED:	DATE:
P. B.	3/6/2020
ROAD NUMBER:	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

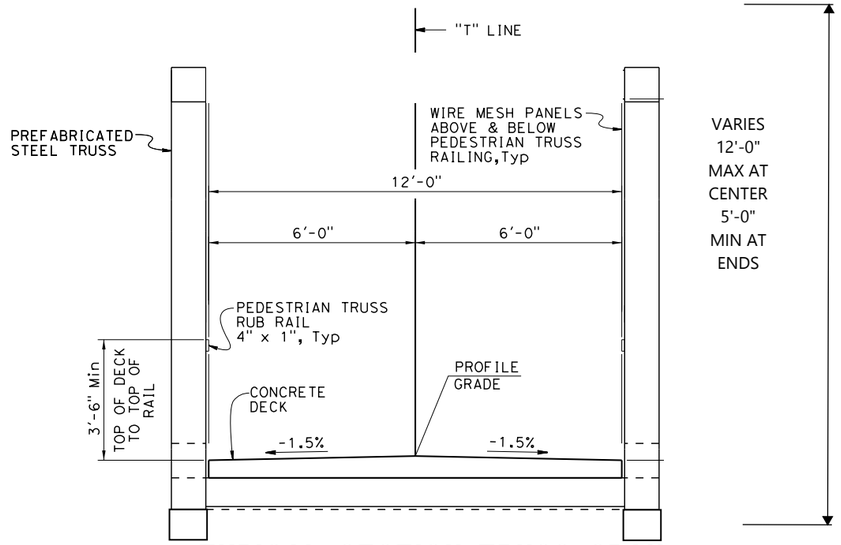
EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-12
35 OF 42
W.O. No.



TYPICAL SECTION

½"=1'-0"

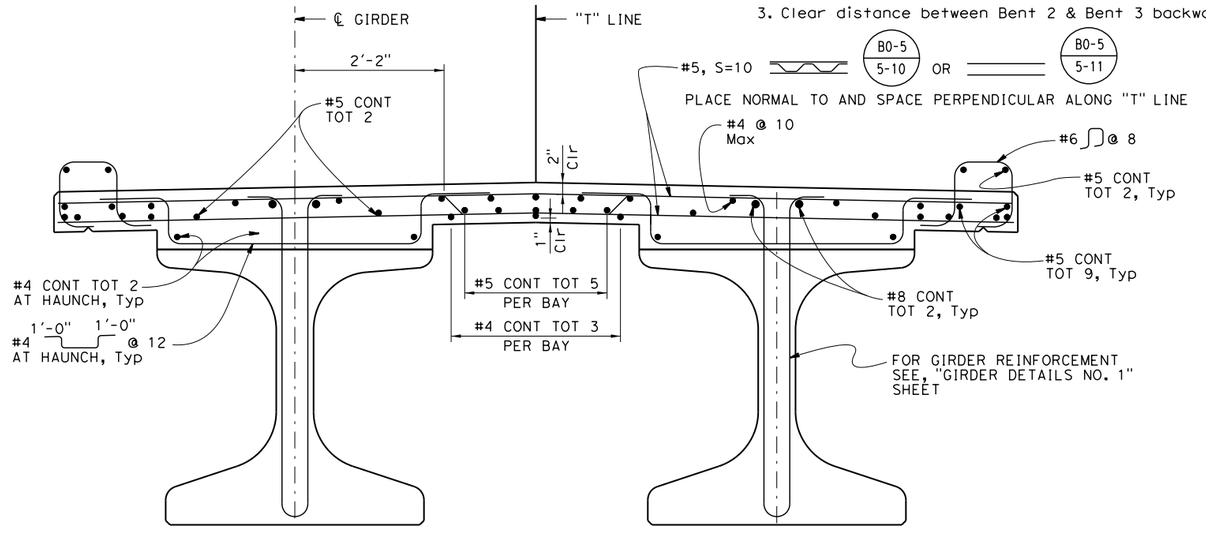


TYPICAL SECTION-TRUSS SPAN

½"=1'-0"

NOTES:

1. Steel truss manufacturer to design PREFABRICATED STEEL TRUSS including wire mesh panels, PEDESTRIAN TRUSS RAILING and CONCRETE DECK.
2. For birdge lighting, see "LIGHTING PLANS."
3. Clear distance between Bent 2 & Bent 3 backwalls is 179'-0".



DECK REINFORCEMENT

B0-5

1"=1'-0"

TYPICAL SECTION
SCALE AS SHOWN

FOR REDUCED PLANS
0 1 2 ORIGINAL SCALE IS IN INCHES USERNAME =>michael.w@TYLIN.COM TIME PLOTTED => 8:34:28 PM
FILE =>710099-k-tsd1.dgn TIME PLOTTED => 1/23/2024

REVISION NUMBER	DATE	DESCRIPTION	BY

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SACRAMENTO, CA 95815

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REGISTERED PROFESSIONAL ENGINEER — Michael Wolohan — No. 67743 — Exp. 6/30/25 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

Michael M. Wolohan

REGISTERED CIVIL ENGINEER 1/23/2024

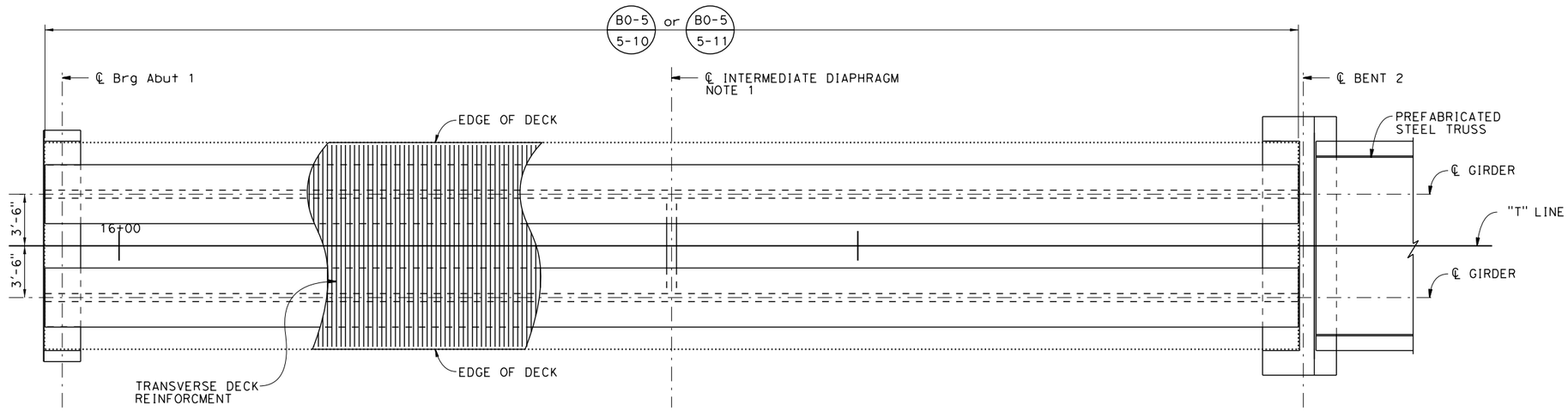
DATE:

DESIGNED:	DRAWN:
M. W.	H.H.
CHECKED:	DATE:
P. B.	3/6/2020
ROAD NUMBER:	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

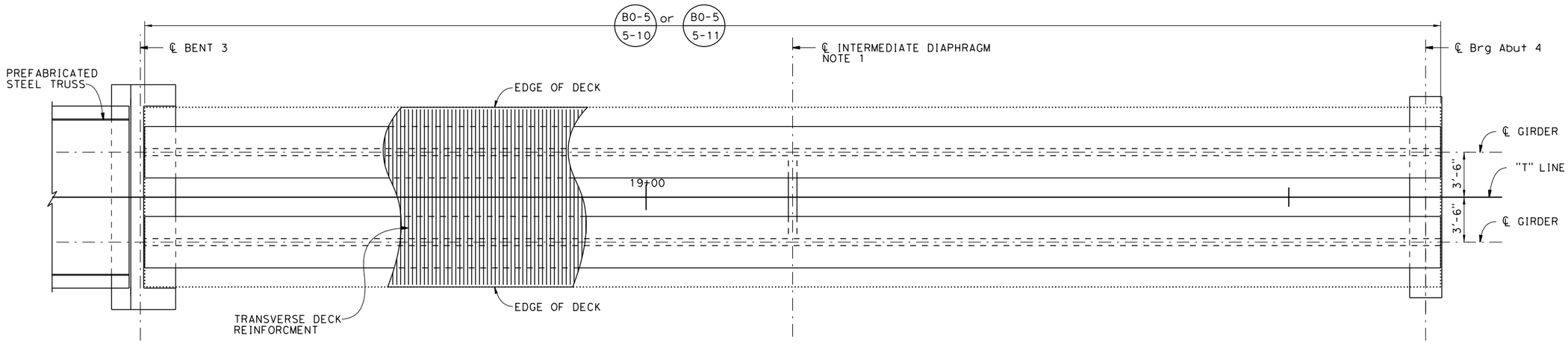
EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-13
36 OF 42
W.O. No.



GIRDER LAYOUT SPAN 1

1/4"=1'-0"



GIRDER LAYOUT SPAN 3

1/4"=1'-0"

NOTES:

1. For Precast Girder and Intermediate Diaphragm details see "PRECAST GIRDER DETAILS" sheets.

FOR REDUCED PLANS
0 1 2
ORIGINAL SCALE IS IN INCHES
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TIME PLOTTED => 7:36:15 PM
DATE PLOTTED => 1/23/2024

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REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER
Michael Wolohan
No. 67743
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER 1/23/2024
DATE:

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M. W.	H.H.
CHECKED:	DATE:
P. B.	3/6/2020
ROAD NUMBER:	

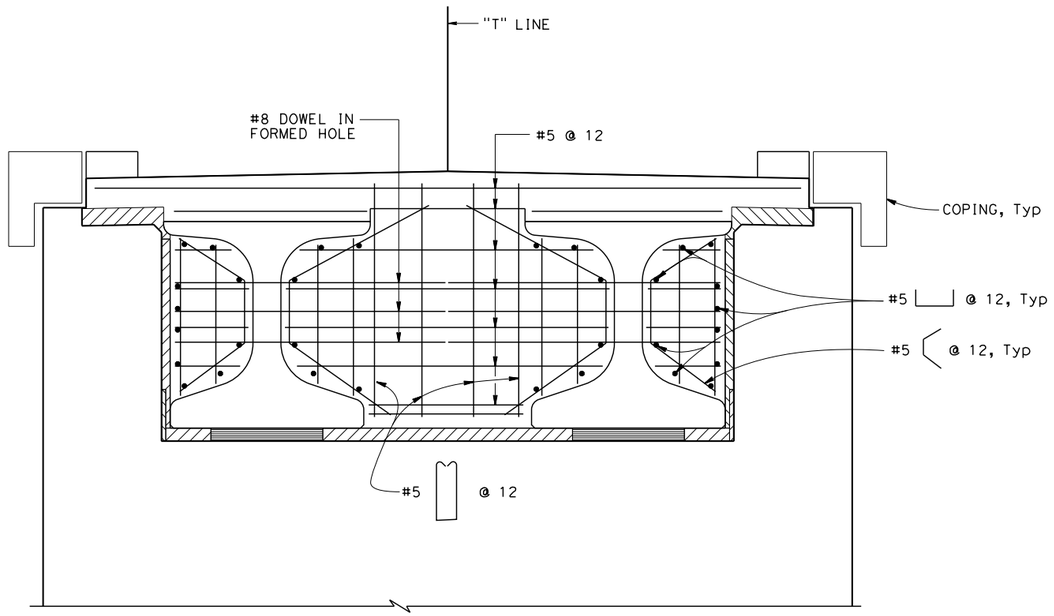
EL DORADO COUNTY CALIFORNIA

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

PRECAST GIRDER LAYOUT
SCALE AS SHOWN

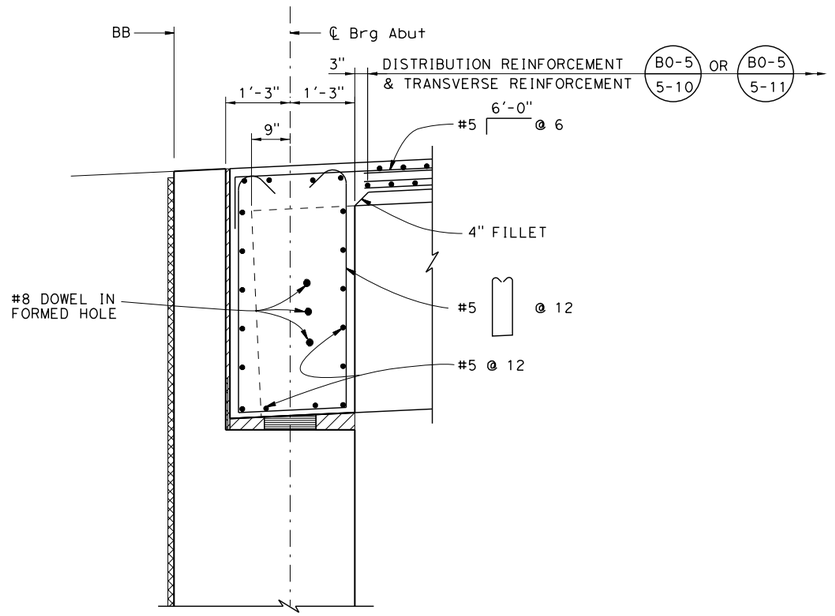
EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET
S-14
37 OF 42
W.O. No.



END DIAPHRAGM

3/4"=1'-0"



END DIAPHRAGM SECTION

3/4"=1'-0"

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SACRAMENTO, CA 95815

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PRECAST GIRDER DETAILS NO. 1
SCALE AS SHOWN

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — Michael Wolohan — No. 67743 — Exp. 6/30/25 — CIVIL — STATE OF CALIFORNIA

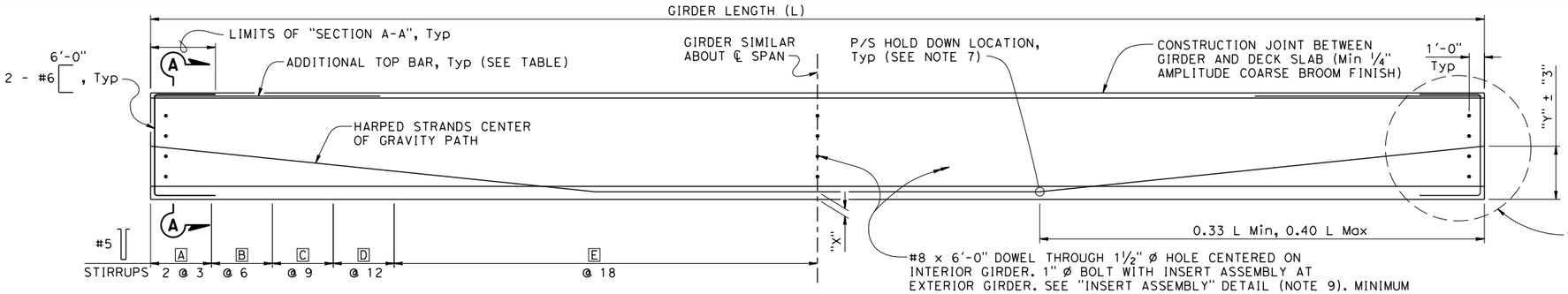
PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
1/23/2024
DATE:

DESIGNED:	DRAWN:
M. W.	H.H.
CHECKED:	DATE:
P. B.	3/6/2020
ROAD NUMBER:	

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

SHEET S-15
38 OF 42
W.O. No.

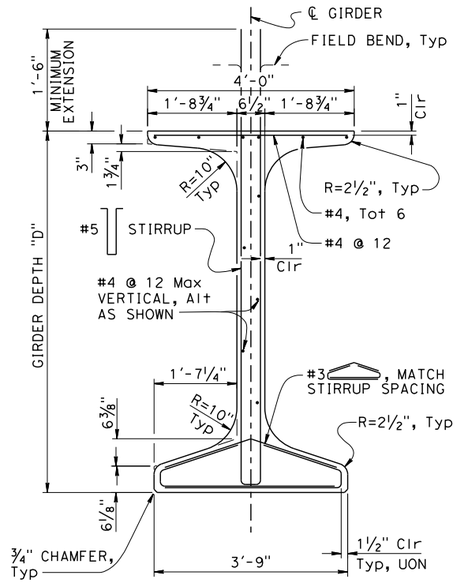


ELEVATION

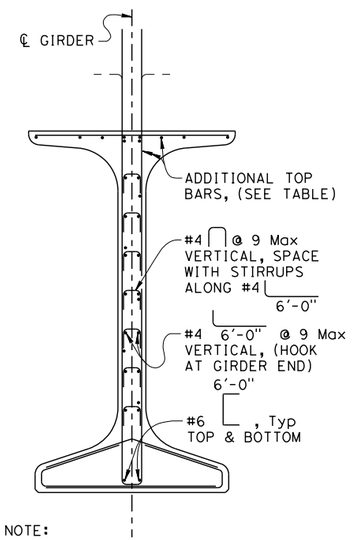
LOCATION	A	B	C	D	E
SPAN 1 GIRDERS	24 SPA	12 SPA	8 SPA	6 SPA	13 SPA
SPAN 3 GIRDERS	20 SPA	12 SPA	8 SPA	6 SPA	19 SPA

NOTE:
Girder ends to be cast such that a level surface is provided at bearing pads

LOCATION	GIRDER LENGTH (L)	GIRDER DEPTH (D)	"X" (in)	JACKING FORCE (P) (kips)	As, min (in²)	"Y" (in)	CONCRETE STRENGTH (ksi)		MIDSPAN DEAD LOAD DEFLECTION (in)	
							f'ci	f'c	DECK	RAIL
SPAN 1 GIRDERS	84'-4"	4'-0"	-	1055	5.208	3.5	6.0	7.0	0.63	0.05
			3.5	176	0.868	20.5				
SPAN 3 GIRDERS	100'-4"	4'-0"	-	1494	7.378	5.68	6.0	7.0	1.25	0.09
			5.5	352	1.736	17.5				

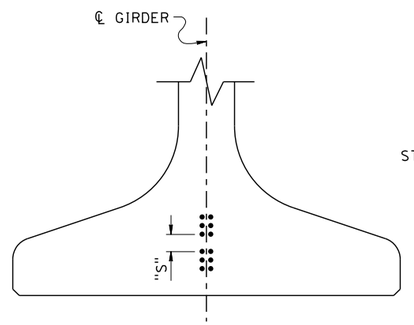


TYPICAL GIRDER SECTION



NOTE:
For details not shown, see "TYPICAL GIRDER SECTION"

SECTION A-A



STRAND CLEARANCES NOTES:

1. Strands may be bundled in groups consisting of 3 vertically, 2 horizontally at midspan, and separated at the ends.
2. The minimum distance "S" between groups or individual strands is 1¾" for 0.5" ø strand and 2" for 0.6" ø strand.
3. "S" is measured between centers of adjacent strands.
4. Approval of Engineer is required for deviation.

CLEARANCES FOR PRETENSIONED STRANDS

NOTES

1. The Jacking Force (P) is the jacking force required at the point of control along the span. The jacking force does not include any specific fabrication losses.
2. Concrete strength:
   f'ci is at time of initial stressing
   f'c is at 28 days
3. Deflection components are informational only and will be used to set screed line elevations.
4. Screed line elevations for deck concrete will be determined by the Engineer.
5. Prestressing strand shall be 270 ksi low relaxation.
6. Contractor may interpolate "Jacking Force" and "X" values between the limits shown, as approved by the Engineer.
7. There must be a minimum of two hold downs per girder for the prestressing within the span.
8. As, min is the minimum area required of prestressing steel.
9. For "INSERT ASSEMBLY" Detail, see "PC/PRETENSIONED WIDE FLANGE GIRDER (HARPED STRANDS MISC. DETAILS)" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	XX		39	42

Michael M. Wolohan 1/24/22
REGISTERED CIVIL ENGINEER DATE

1/23/24
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Michael M. Wolohan — No. C67743 — Exp. 6/30/25 — CIVIL — STATE OF CALIFORNIA

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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.

SHEET S-16

PRECAST GIRDER DETAILS NO. 2

NO SCALE

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

BRIDGE STANDARD DETAILS

xs1-124-1 (FILE NO.) | October 2016 (APPROVAL DATE)

The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.
POST MILE

PC/PRETENSIONED WIDE FLANGE GIRDER
(HARPED STRANDS)

Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html

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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT:
PROJECT NUMBER & PHASE:
CONTRACT NO.:

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
10-8-16	11-1-16			39	42

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DATE PLOTTED => 1/23/2024

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	XX		40	42

Michael M. Wolohan 1/24/22
REGISTERED CIVIL ENGINEER DATE

1/23/24
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Michael M. Wolohan — No. C67743 — Exp. 6/30/25 — CIVIL — STATE OF CALIFORNIA

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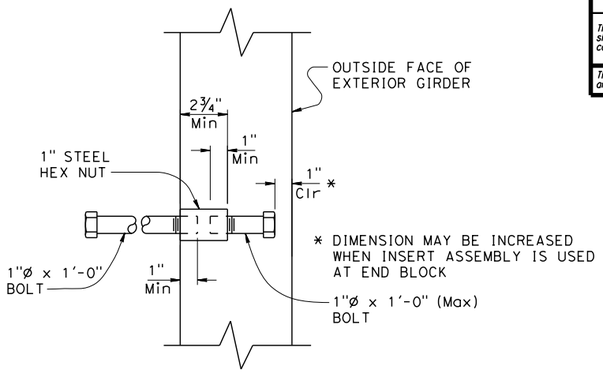
The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.



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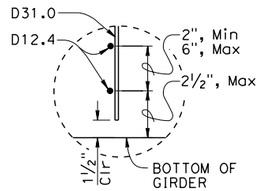
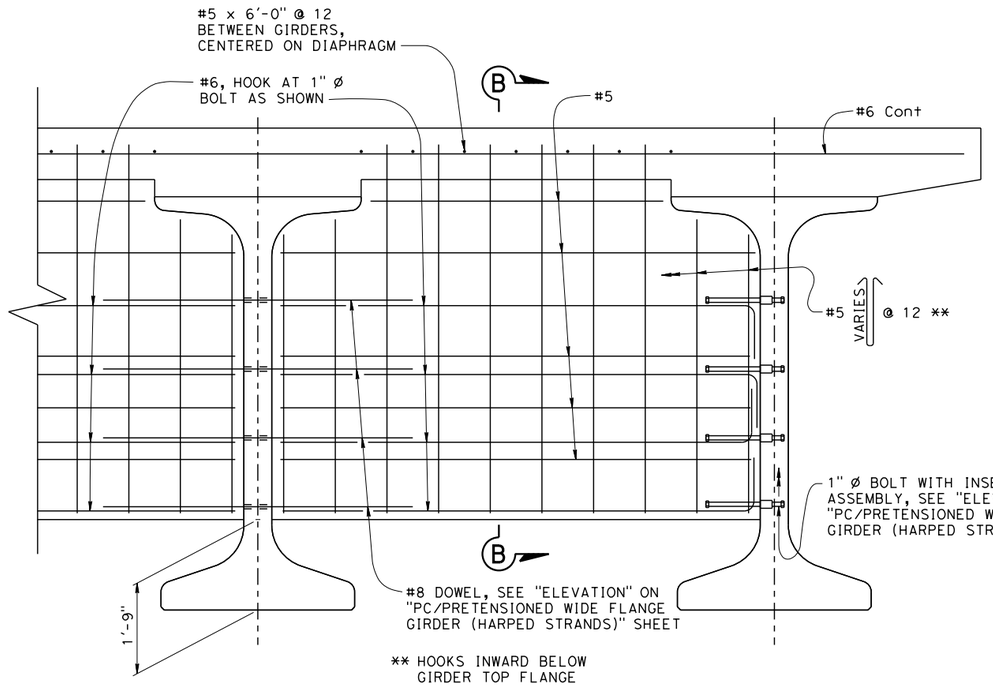


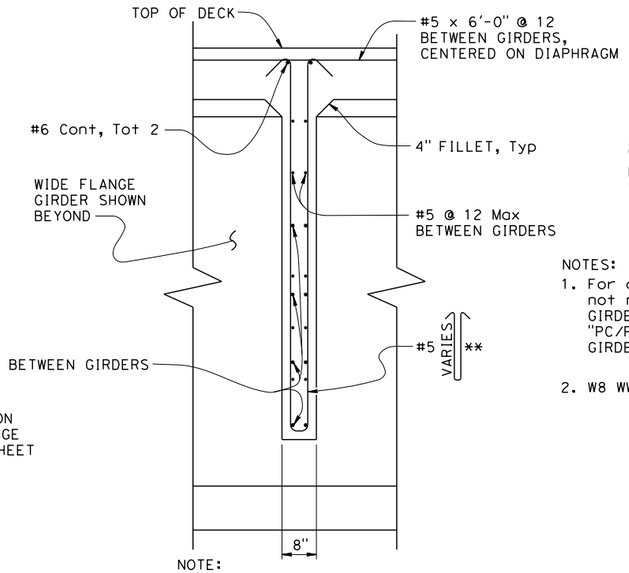
NOTES:
1. Bottom of stirrup WWR detail shown, top similar
2. Longitudinal wire area shall be 40% or greater of vertical deformed wire's area

DETAIL A



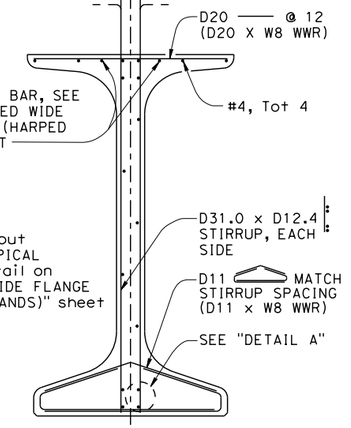
** HOOKS INWARD BELOW GIRDER TOP FLANGE

INTERMEDIATE DIAPHRAGM



NOTE:
Diaphragm may be vertical or normal to deck grade

SECTION B-B



NOTES:
1. For details shown but not noted, see "TYPICAL GIRDER SECTION" detail on "PC/PRETENSIONED WIDE FLANGE GIRDER (HARPED STRANDS)" sheet
2. W8 WWR not shown

WELDED WIRE REINFORCEMENT (WWR) ALTERNATIVE

SHEET S-17

PRECAST GIRDER DETAILS NO. 3

NO SCALE

EL DORADO TRAIL
MISSOURI FLAT ROAD
PEDESTRIAN OVERCROSSING

BRIDGE STANDARD DETAILS			STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	PC/PRETENSIONED WIDE FLANGE GIRDER (HARPED STRANDS MISC. DETAILS)
xs1-124-2 FILE NO.	October 2016 APPROVAL DATE	The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California			POST MILE	

Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html

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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: PROJECT NUMBER & PHASE: CONTRACT NO.:

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10-1-16	11-1-16			40	42

USERNAME => michael.wolohan@dot.ca.gov TIME PLOTTED => 7:56:06 PM 1/23/2024
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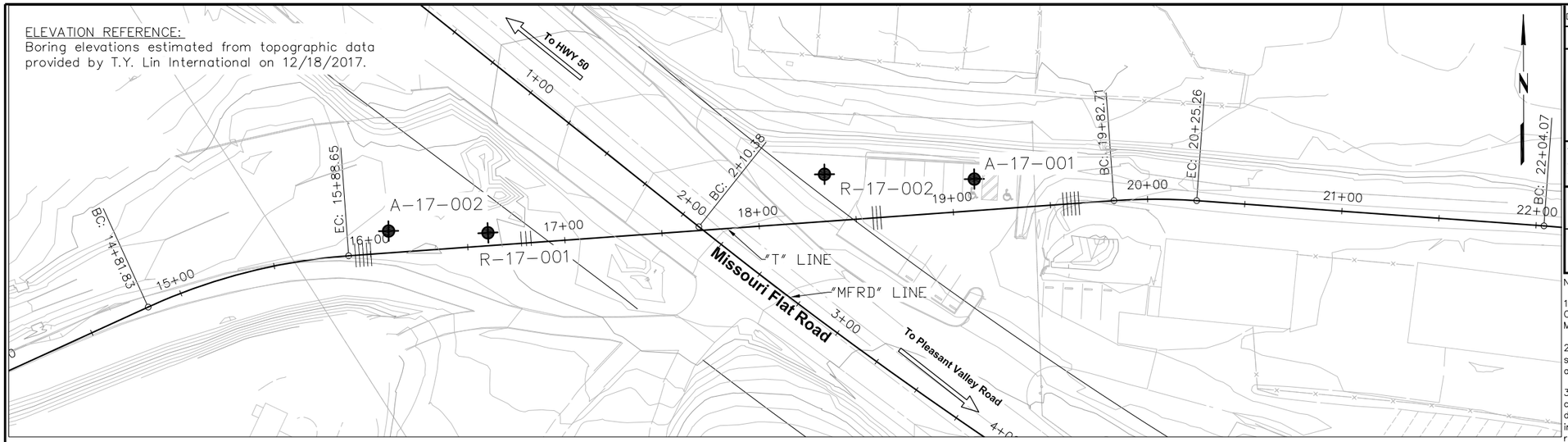
ELEVATION REFERENCE:
Boring elevations estimated from topographic data provided by T.Y. Lin International on 12/18/2017.



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	ED	XX		41	42

08/20/18
CERTIFIED ENGINEERING GEOLOGIST — DATE

REGISTERED GEOLOGIST
DAVID A. KITZMANN
No. 2412
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

1/23/24
PLANS APPROVAL DATE

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ELK GROVE, CALIFORNIA 95758 WRECO JOB NO: P17076

T.Y. LIN INTERNATIONAL
1545 RIVER PARK DRIVE, SUITE 201
SACRAMENTO, CA 95815

Notes:

1. Field classification of soils was in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010 Edition).

2. 1.4" samples were taken using a 1.375" ID split barrel sampler per Standard Penetration Test (SPT) performed in accordance with ASTM D 1586–11.

3. 1.4" samples were taken with an automated hammer system consisting of a hammer weight of 140 lbs. free falling a distance of 30". Autohammer energy ratio (ETR) measurements indicate an ETR=77%. The last 12" of an 18" drive were recovered as the blow count number required to drive the sampler.

4. 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 ASTM D1586–11. Where less than 1 foot of penetration is achieved, the blow count shown is for that fraction of the "standard penetration resistance" interval actually penetrated. Where indicated by an asterisk (*) the number of blows shown is for only that fraction of the initial 6" "seating drive" interval penetration. Material characteristics shown in ( ) where estimated.

5. The blow counts shown on the logs are the raw blow counts which have not been corrected for hammer energy, sample size, overburden, or any other correction factor.

6. The apparent density of granular soil is based on a corrected Standard Penetration Test N60 value.

7. Rock classification according to Caltrans Soil and Rock Logging, Classification and Presentation manual (2010 Edition). Descriptions were determined in the field. REC = Core Recovered (percent). RQD = Rock Quality Designation (percent).

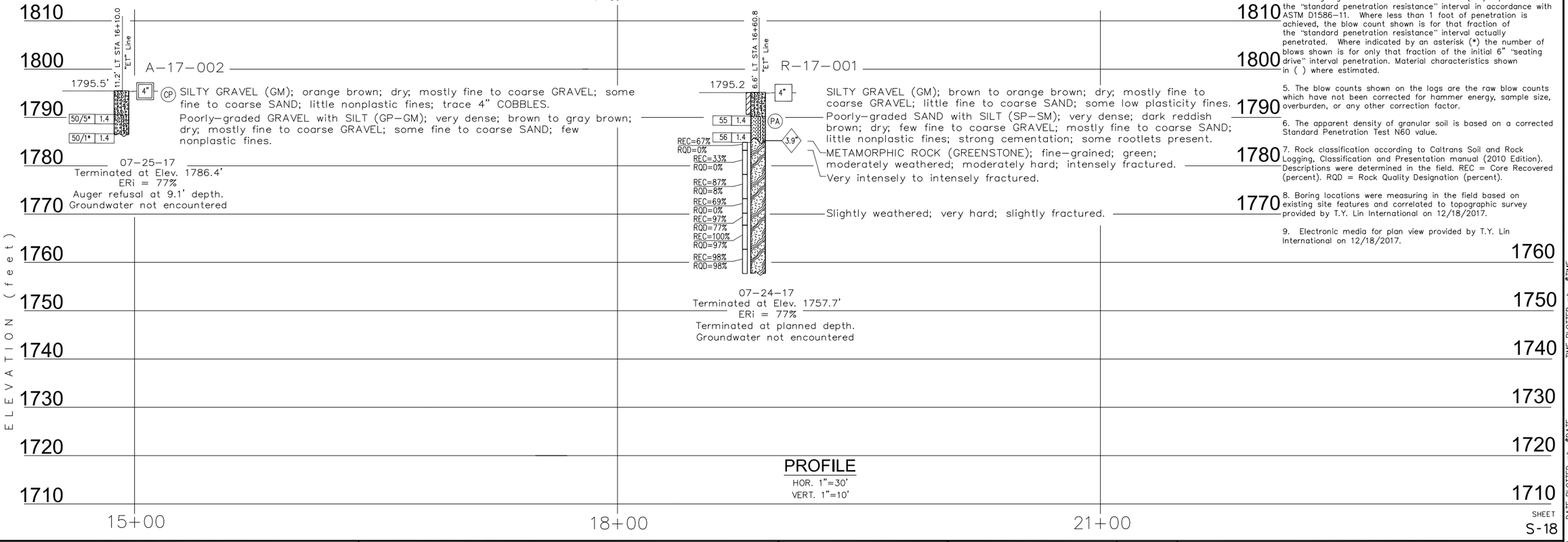
8. Boring locations were measuring in the field based on existing site features and correlated to topographic survey provided by T.Y. Lin International on 12/18/2017.

9. Electronic media for plan view provided by T.Y. Lin International on 12/18/2017.

PLAN
1"=30'

PROFILE
HOR. 1"=30'
VERT. 1"=10'

ELEVATION (feet)



ENGINEERING SERVICES		GEOTECHNICAL SERVICES		PREPARED FOR THE EL DORADO COUNTY COMMUNITY DEVELOPMENT AGENCY	XX PROJECT ENGINEER	BRIDGE NO. XXX-XXXX	EL DORADO TRAIL AT MISSOURI FLAT ROAD BIKE/PED OC
FUNCTIONAL SUPERVISOR	DRAWN BY: D. Lukashov	FIELD INVESTIGATION BY:	DATE:			POST MILE XX.XX	LOG OF TEST BORINGS 1 OF 2
Name	CHECKED BY: A. Kahn	D. Lukashov	07/24-25/17				

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU XXXXXX
EA XXXXXX
FILE => $REQUEST

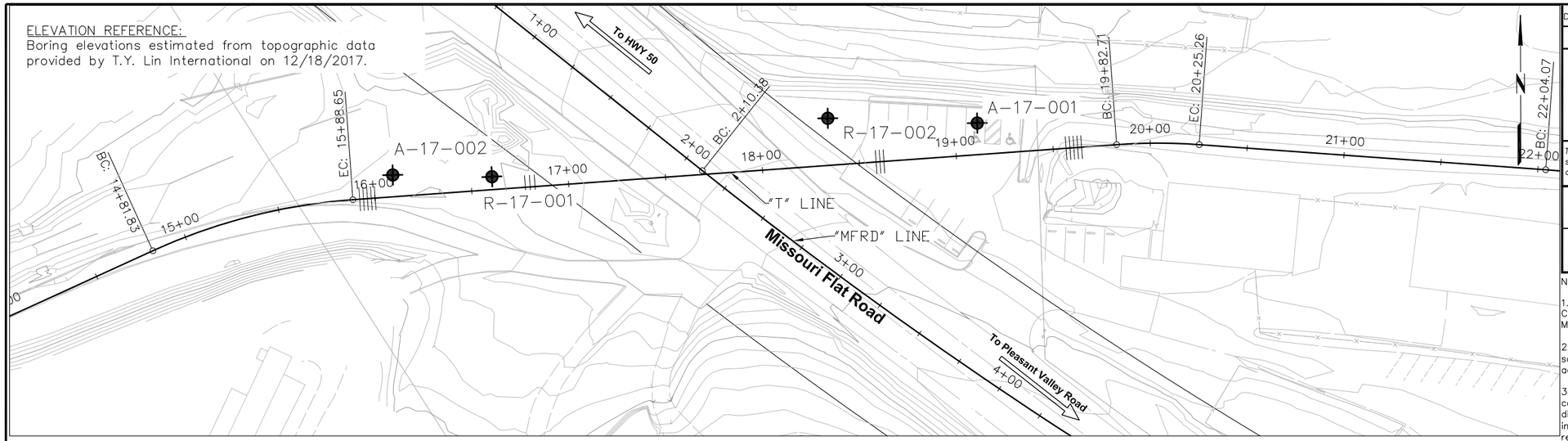
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET 41 | OF 42

SHEET S-18

11/2/2015 OR_Missouri Flat LOTB_rev.dwg
USERNAME => $USER DATE PLOTTED => $DATE TIME PLOTTED => $TIME

ELEVATION REFERENCE:
Boring elevations estimated from topographic data provided by T.Y. Lin International on 12/18/2017.



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	ED	XX		42	42

08/20/18
CERTIFIED ENGINEERING GEOLOGIST — DATE

REGISTERED GEOLOGIST
DAVID A. KITZMANN
No. 2412
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

1/23/24
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

WRECO
7807 LAGUNA BLVD., SUITE 400
ELK GROVE, CALIFORNIA 95758 WRECO JOB NO: P17076

T.Y. LIN INTERNATIONAL
1545 RIVER PARK DRIVE, SUITE 201
SACRAMENTO, CA 95815

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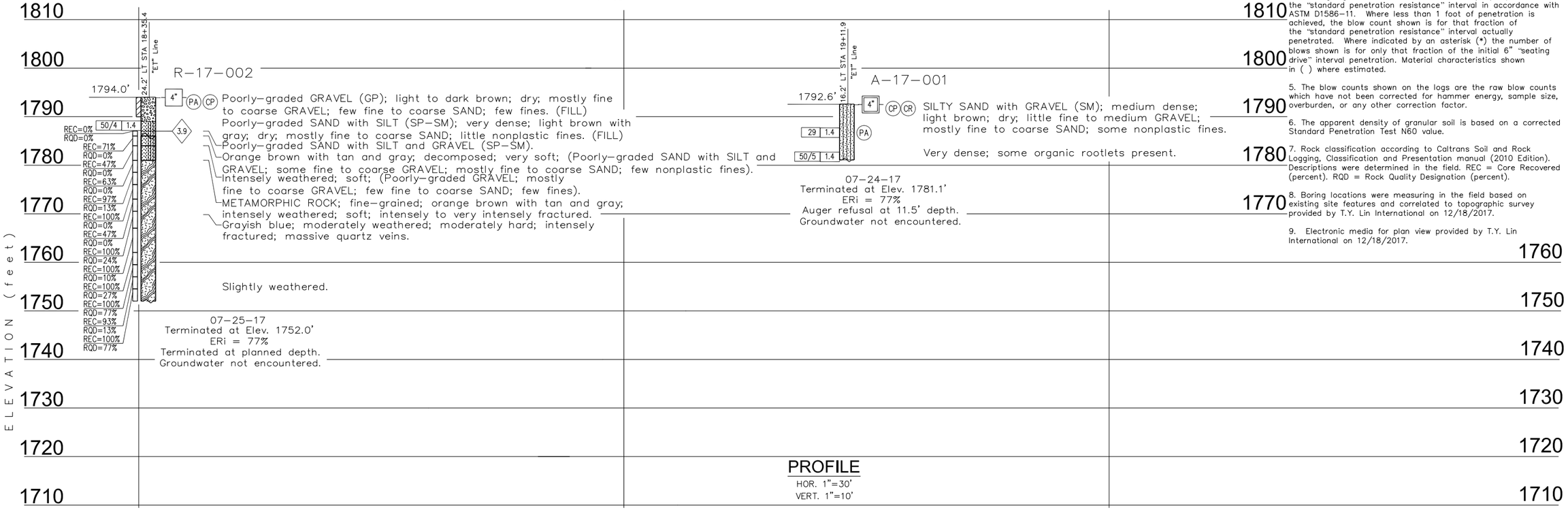

ENGINEERING SERVICES	GEOTECHNICAL SERVICES			PREPARED FOR THE		BRIDGE NO.	EL DORADO TRAIL AT MISSOURI FLAT ROAD BIKE/PED OC
FUNCTIONAL SUPERVISOR: Name	DRAWN BY: D. Lukashov	FIELD INVESTIGATION BY: D. Lukashov	DATE: 07/24-25/17	EL DORADO COUNTY COMMUNITY DEVELOPMENT AGENCY	XX PROJECT ENGINEER	XXX-XXXX POST MILE XX.XX	LOG OF TEST BORINGS 2 OF 2
	CHECKED BY: A. Kahn						

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU XXXXXX
EA XXXXXX

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	42	42

FILE => $REQUEST

11/2/2015 OR_Missouri Flat LOTB_rev.dwg

USERNAME => $USER DATE PLOTTED => $DATE TIME PLOTTED => $TIME

SHEET S-19