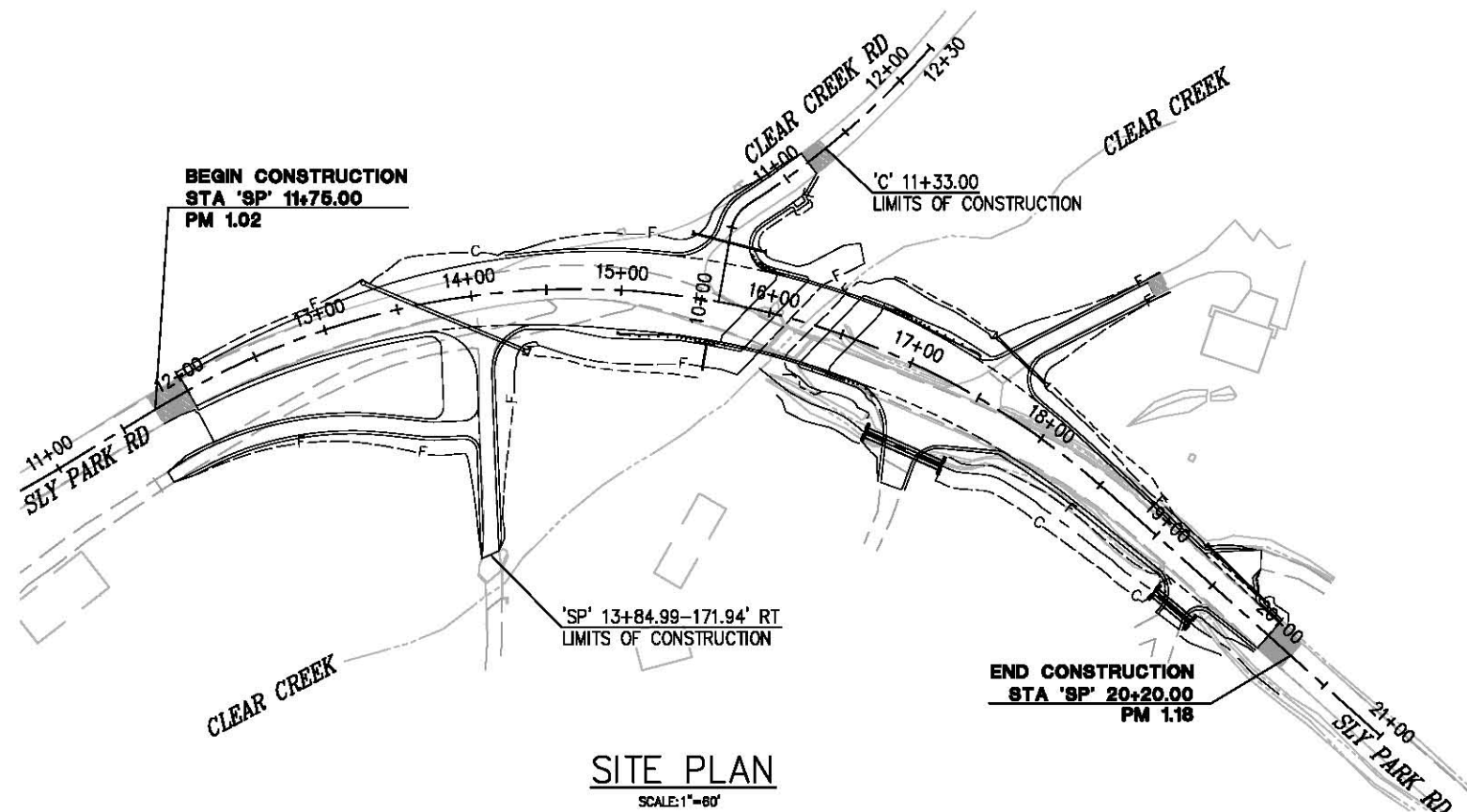
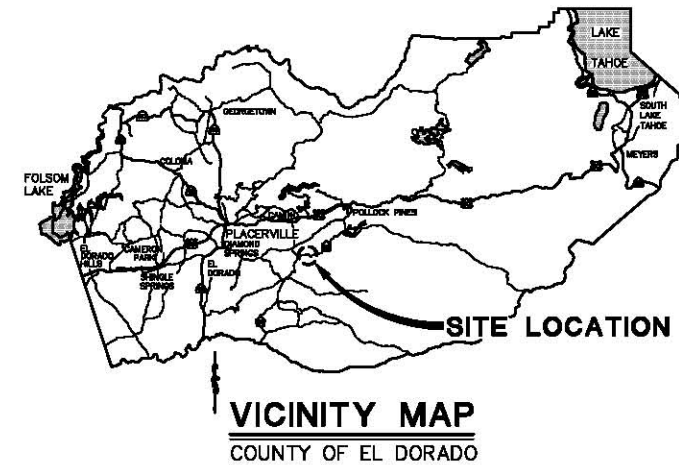


COUNTY OF EL DORADO, CA DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR THE CONSTRUCTION OF SLY PARK RD AT CLEAR CREEK CROSSING BRIDGE REPLACEMENT

IN THE COUNTY OF EL DORADO, DISTRICT II
APPROXIMATELY 11.5 MILES EAST OF THE TOWN OF DIAMOND SPRINGS

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



ABBREVIATIONS

- AP - ANGLE POINT
- BOF - BOTTOM OF FOOTING
- GB - GRADE BREAK
- GTD - GRADE TO DRAIN
- HWL - HEADWALL LAYOUT LINE

INDEX OF SHEETS

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7	L-3	LAYOUT PLAN & PROFILE CLEAR CREEK ROAD
8	L-4	LAYOUT PLAN & PROFILE - DWY 1
9	L-5	LAYOUT PLAN & PROFILE DWY 2
10	L-6	LAYOUT PLAN & PROFILE DWY 3
11	L-7	LAYOUT PLAN & PROFILE DWY 4, DWY 5, AND DWY 6
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STRUCTURE PLANS

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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



FEDERAL AID PROJECT
BRLS 5925 (050)

DUSTIN HARRINGTON
 PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER NO. C71517
 DATE: 01/30/18

BOARD OF SUPERVISORS

I	JOHN HIDAHL
II	SHIVA FRENTZEN
III	BRIAN VEERKAMP
IV	MICHAEL RANALLI
V	SUE NOVASEL

**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

(530) 621-5900
 2850 FAIRLANE CT
 PLACERVILLE, CA 95667

ADOPTED AND APPROVED BY:

MICHAEL RANALLI
 CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS

APPROVED BY:

RAFAEL MARTINEZ, DIRECTOR
 DEPARTMENT OF TRANSPORTATION

MATTHEW D. SNEITZER, P.E. NO. C09832
 DEPUTY DIRECTOR, ENGINEERING

PW NO. 11-30579 PROJECT NO. 77115

**SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT**

TITLE SHEET

SHEET **1** OF **49**

CONTROL TABLE

CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2014704.42	6948916.67	2509.56	CP 10IN
2	2014580.85	6949073.65	2503.32	CP 10IN
3	2014499.94	6949298.38	2509.65	CP 10IN
4	2014768.05	6949080.53	2515.52	CP 10IN
5	2014232.48	6949533.04	2515.84	CP 10IN
6	2014423.31	6948279.07	2515.54	CP 10IN
7	2014728.12	6949231.04	2502.29	CP 10IN

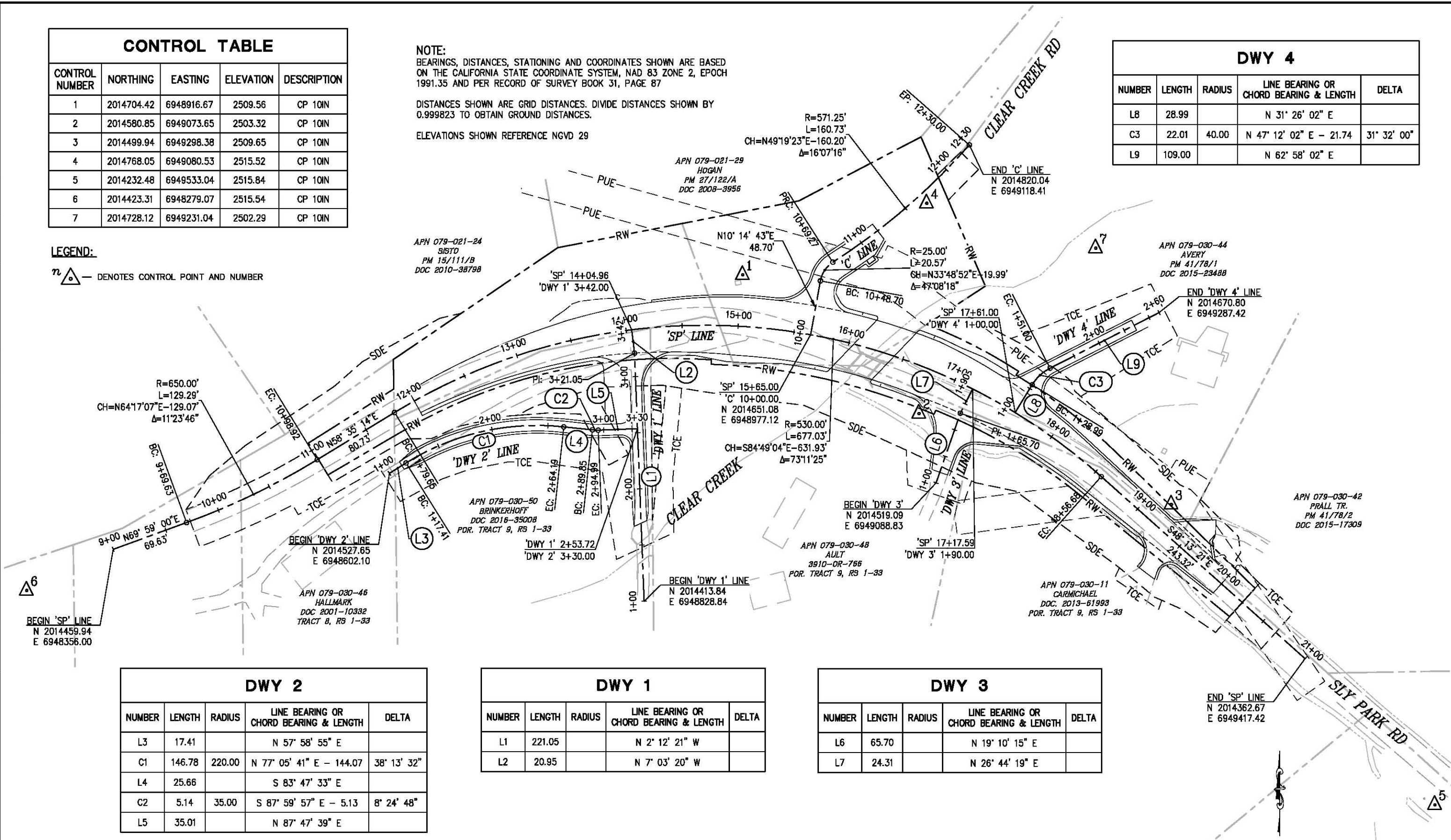
NOTE:
 BEARINGS, DISTANCES, STATIONING AND COORDINATES SHOWN ARE BASED ON THE CALIFORNIA STATE COORDINATE SYSTEM, NAD 83 ZONE 2, EPOCH 1991.35 AND PER RECORD OF SURVEY BOOK 31, PAGE 87

DISTANCES SHOWN ARE GRID DISTANCES. DIVIDE DISTANCES SHOWN BY 0.999823 TO OBTAIN GROUND DISTANCES.

ELEVATIONS SHOWN REFERENCE NGVD 29

DWY 4				
NUMBER	LENGTH	RADIUS	LINE BEARING OR CHORD BEARING & LENGTH	DELTA
L8	28.99		N 31° 26' 02" E	
C3	22.01	40.00	N 47° 12' 02" E - 21.74	31° 32' 00"
L9	109.00		N 62° 58' 02" E	

LEGEND:
 n Δ — DENOTES CONTROL POINT AND NUMBER



DWY 2				
NUMBER	LENGTH	RADIUS	LINE BEARING OR CHORD BEARING & LENGTH	DELTA
L3	17.41		N 57° 58' 55" E	
C1	146.78	220.00	N 77° 05' 41" E - 144.07	38° 13' 32"
L4	25.66		S 83° 47' 33" E	
C2	5.14	35.00	S 87° 59' 57" E - 5.13	8° 24' 48"
L5	35.01		N 87° 47' 39" E	

DWY 1				
NUMBER	LENGTH	RADIUS	LINE BEARING OR CHORD BEARING & LENGTH	DELTA
L1	221.05		N 2° 12' 21" W	
L2	20.95		N 7° 03' 20" W	

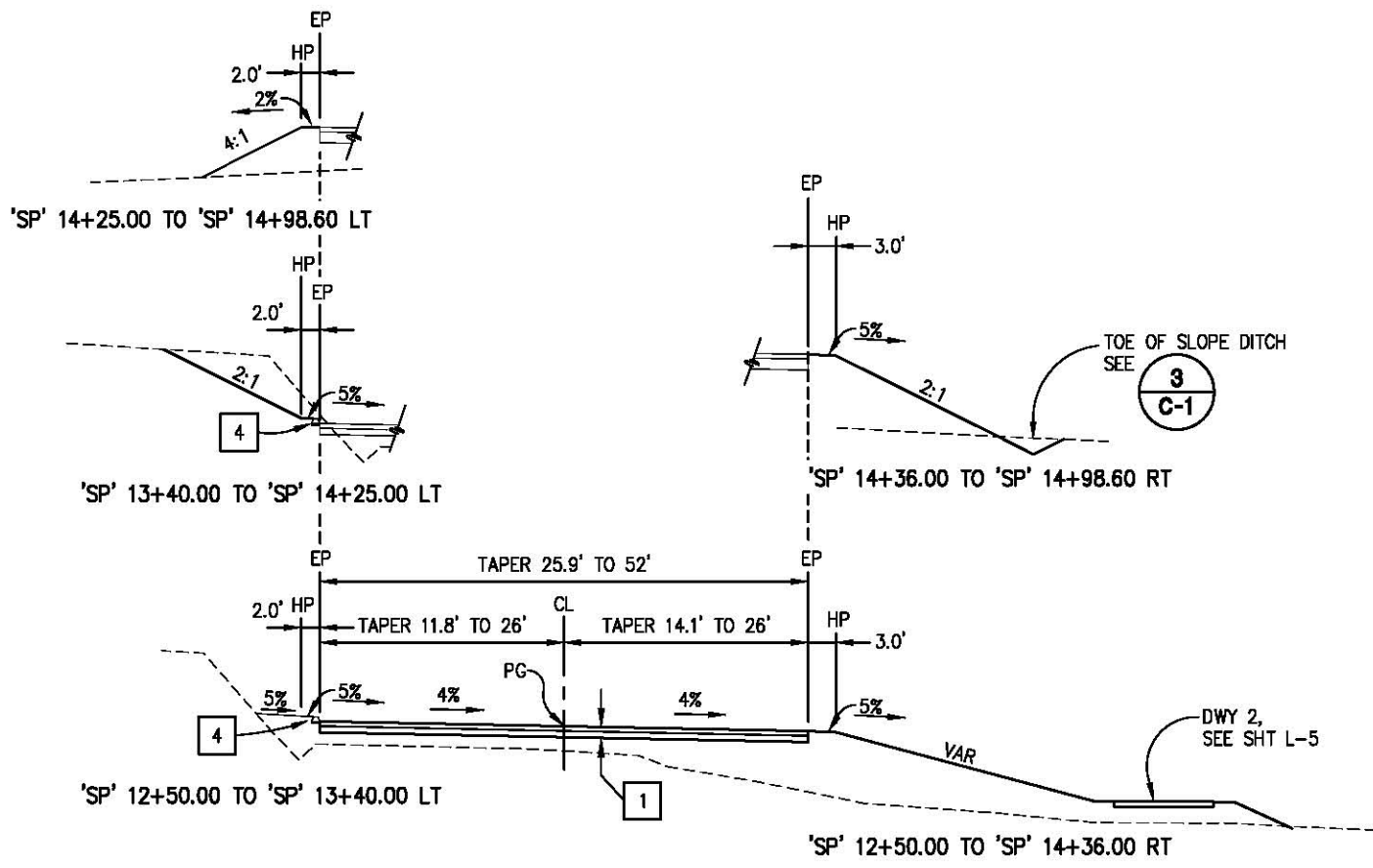
DWY 3				
NUMBER	LENGTH	RADIUS	LINE BEARING OR CHORD BEARING & LENGTH	DELTA
L6	65.70		N 19° 10' 15" E	
L7	24.31		N 26° 44' 19" E	

SURVEY AND CONTROL DIAGRAM
 SCALE: 1" = 40'

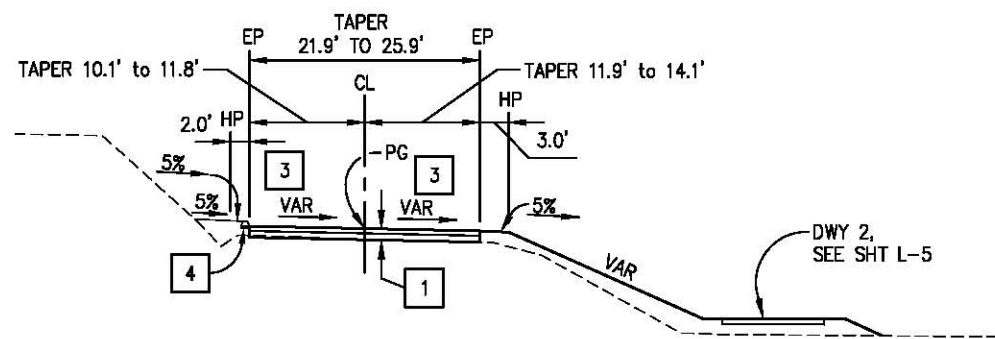
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REVISION NUMBER DATE DESCRIPTION BY		PREPARED UNDER THE SUPERVISION OF: <i>Joseph C. Neely</i> PROFESSIONAL LAND SURVEYOR 01/30/18	DESIGNED: DWH DRAWN: SGM CHECKED: JCN DATE: 01/18/18 ROAD NUMBER: 090	COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	SHEET CD-1 2 OF 49 W.O. No. 77115
		SURVEY AND CONTROL DIAGRAM SCALE: 1" = 40'			SLY PARK RD AT CLEAR CREEK CROSSING BRIDGE REPLACEMENT

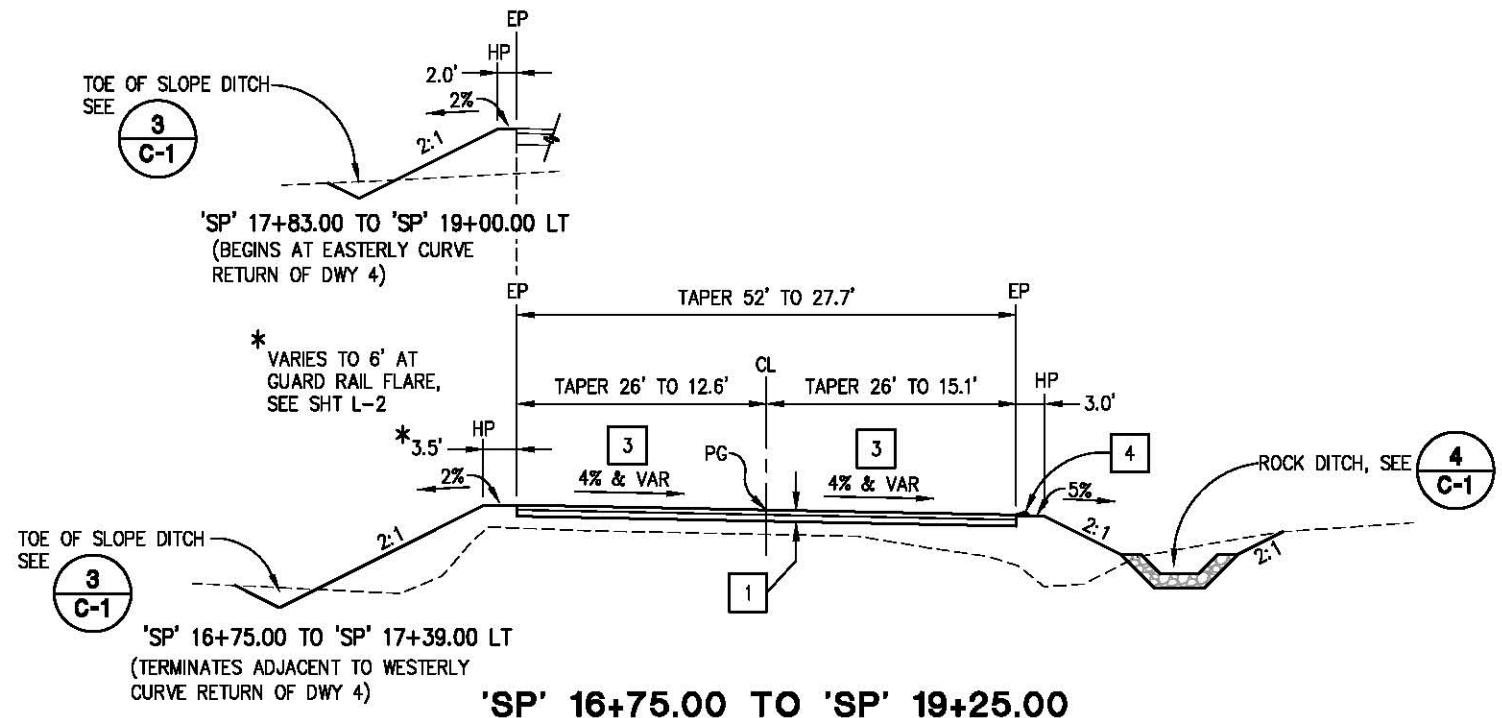
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 FOR REDUCED PLANS



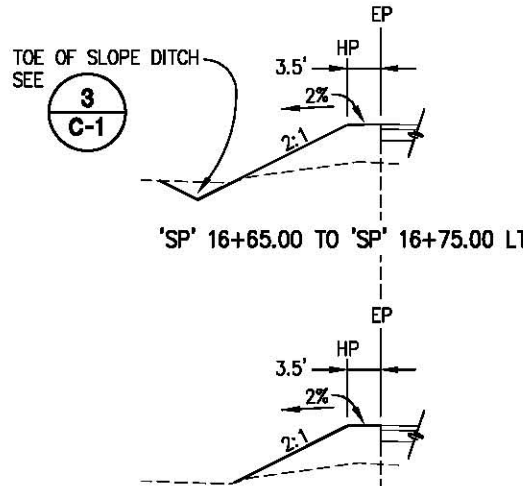
'SP' 12+50.00 TO 'SP' 14+98.60



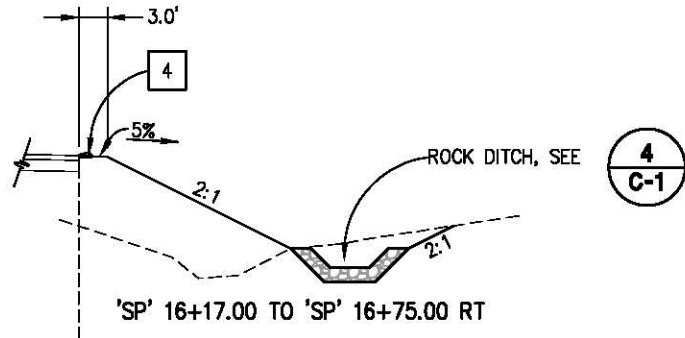
'SP' 12+00.00 TO 'SP' 12+50.00



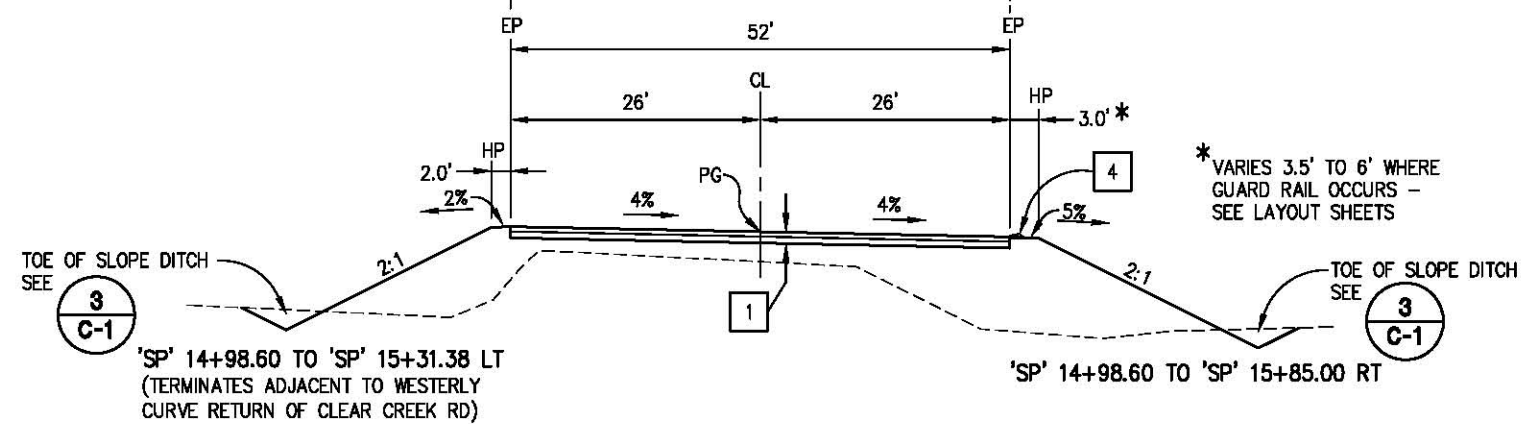
'SP' 16+75.00 TO 'SP' 19+25.00



'SP' 15+94.10 TO 'SP' 16+29.00 LT



'SP' 16+17.00 TO 'SP' 16+75.00 RT



'SP' 14+98.60 TO 'SP' 16+75.00

CONSTRUCTION NOTES:

- 1 — 5" HMA (TYPE A)
8" AB (CLASS 2)
 - 2 — 3" HMA (TYPE A)
6" AB (CLASS 2)
 - 3 — CROSS SLOPE VARIES, SEE LAYOUT SHEETS FOR SUPER ELEVATION DIAGRAM
 - 4 — HMA DIKE, TYPE AND LIMITS VARY, SEE 'L' SHEETS
- NOTE:
SHOULDER BACKING TO BE PLACED EP TO HP, MAX 6" THICK.
(NOT SHOWN ON TYPICAL SECTIONS)

**TYPICAL SECTIONS
SCALE : NONE**



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 09D

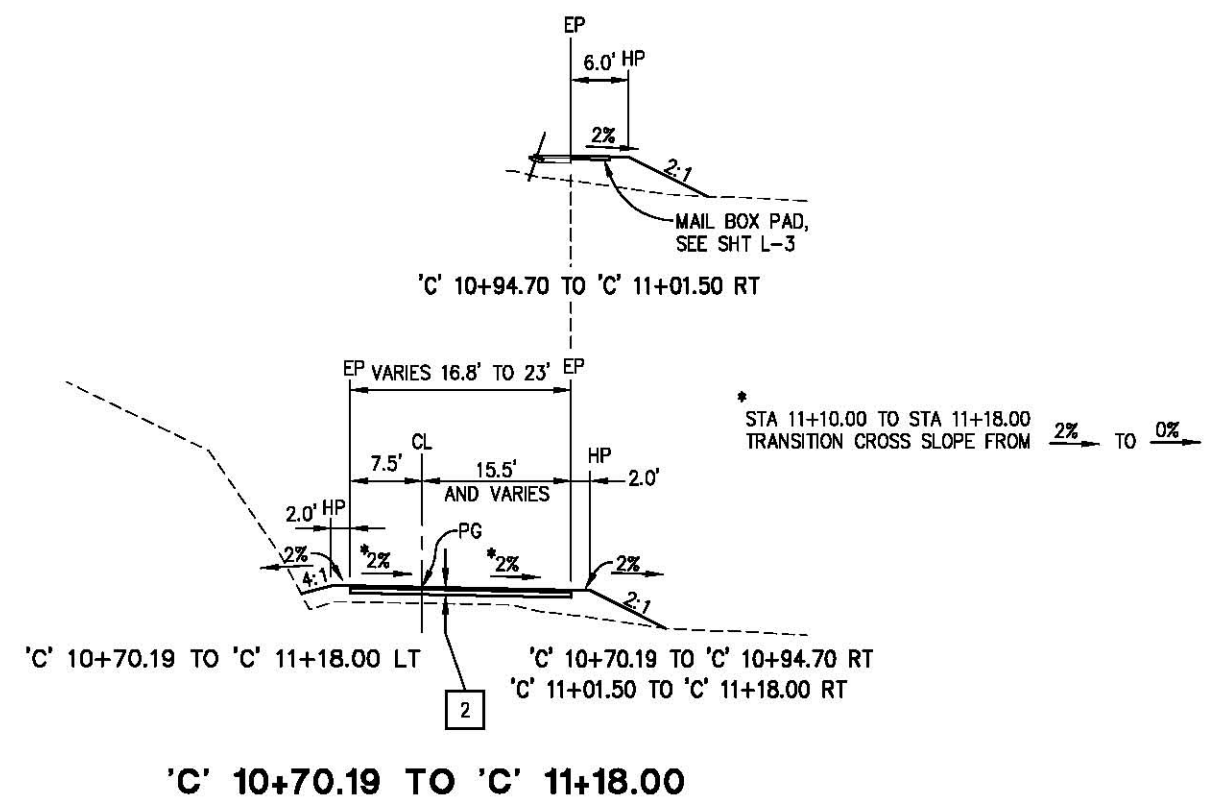


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

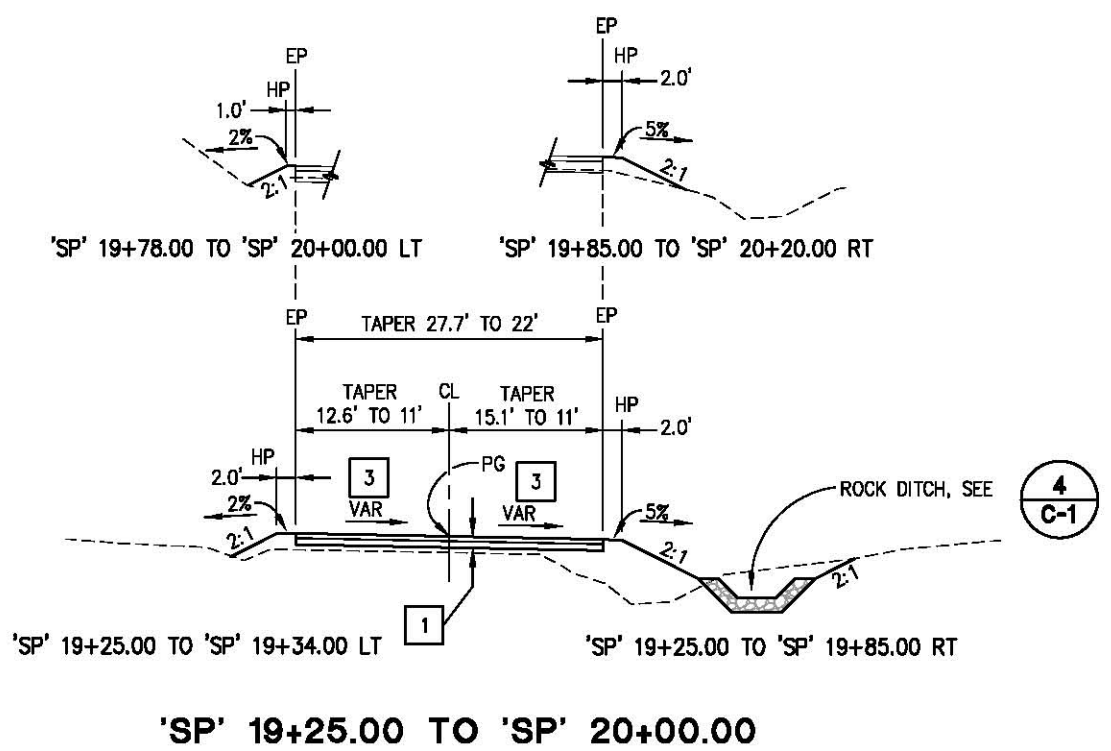
**SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT**

SHEET
X-1
 3 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets X-Sheets.dwg Layout Tab: X-2 Jan 18, 2018 - 12:31pm SMeVey
 FOR REDUCED PLANS



'C' 10+70.19 TO 'C' 11+18.00



'SP' 19+25.00 TO 'SP' 20+00.00

TYPICAL SECTIONS
SCALE : NONE

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090

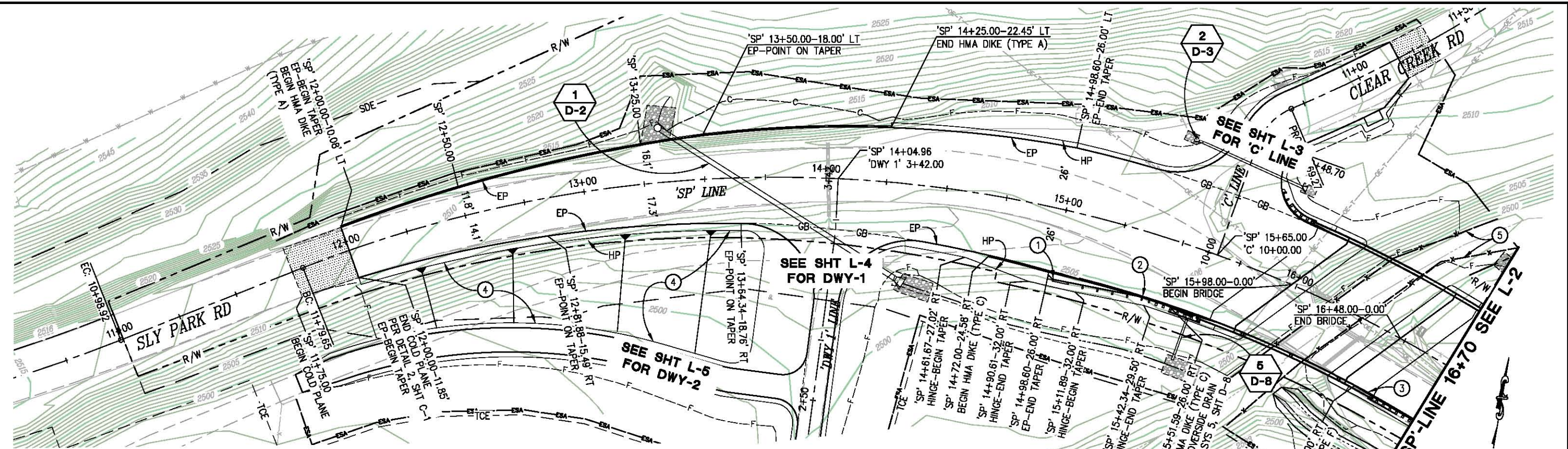


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
X-2
4 OF 49
W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS

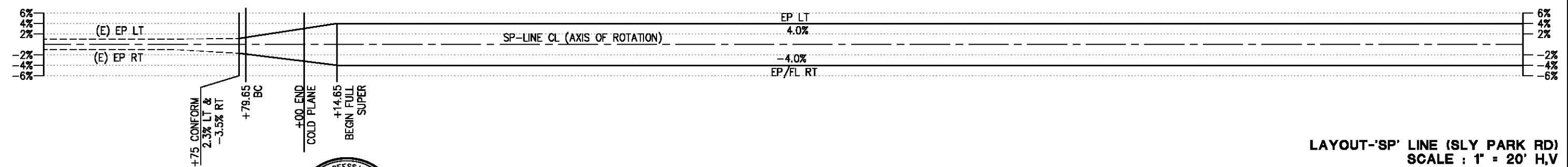
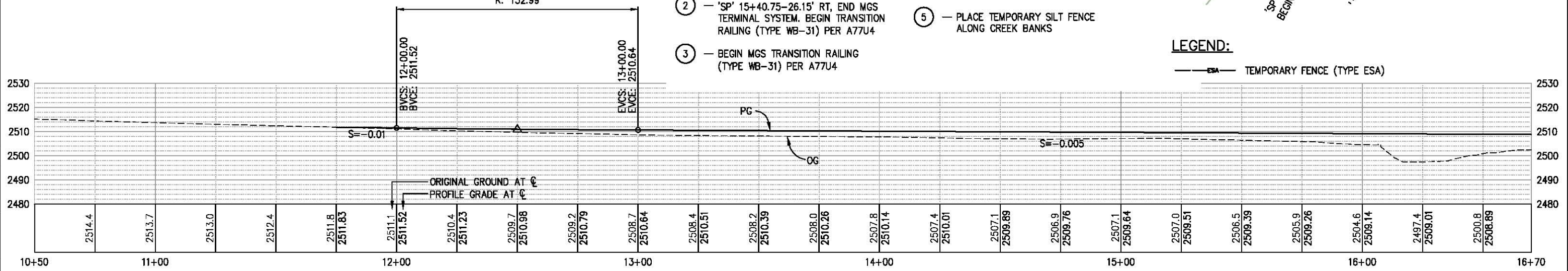


CONSTRUCTION NOTES:

- ① — 'SP' 15+01.20-28.90' RT, BEGIN MGS IN-LINE TERMINAL SYSTEM, PER A77U4
- ② — 'SP' 15+40.75-26.15' RT, END MGS TERMINAL SYSTEM. BEGIN TRANSITION RAILING (TYPE WB-31) PER A77U4
- ③ — BEGIN MGS TRANSITION RAILING (TYPE WB-31) PER A77U4
- ④ — STRAIGHT GRADE SLOPE FROM 'SP' LINE RIGHT HP TO 'DWY 2' LEFT HP, SEE SHT X-1
- ⑤ — PLACE TEMPORARY SILT FENCE ALONG CREEK BANKS

LEGEND:
 — ESA — TEMPORARY FENCE (TYPE ESA)

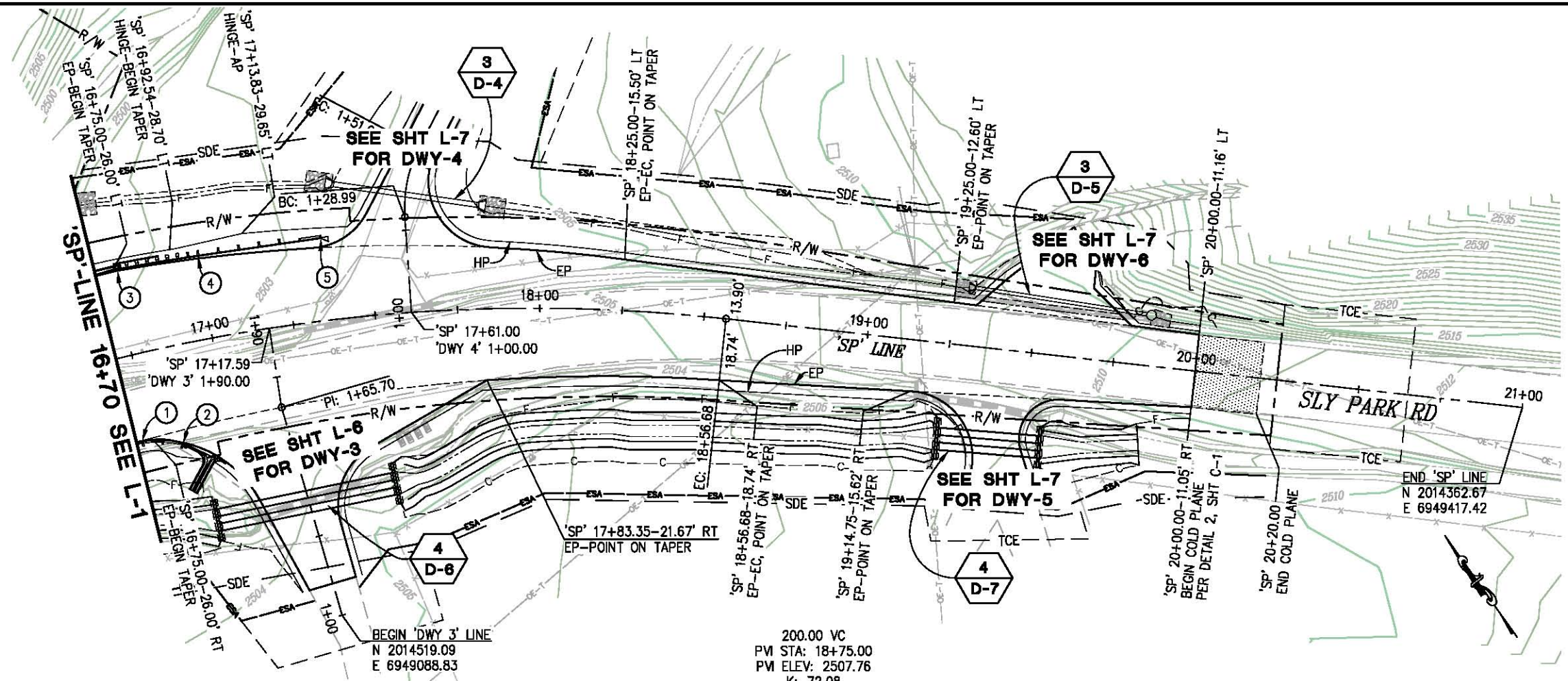
100.00 VC
 PVI STA: 12+50.00
 PVI ELEV: 2510.89
 K: 132.99



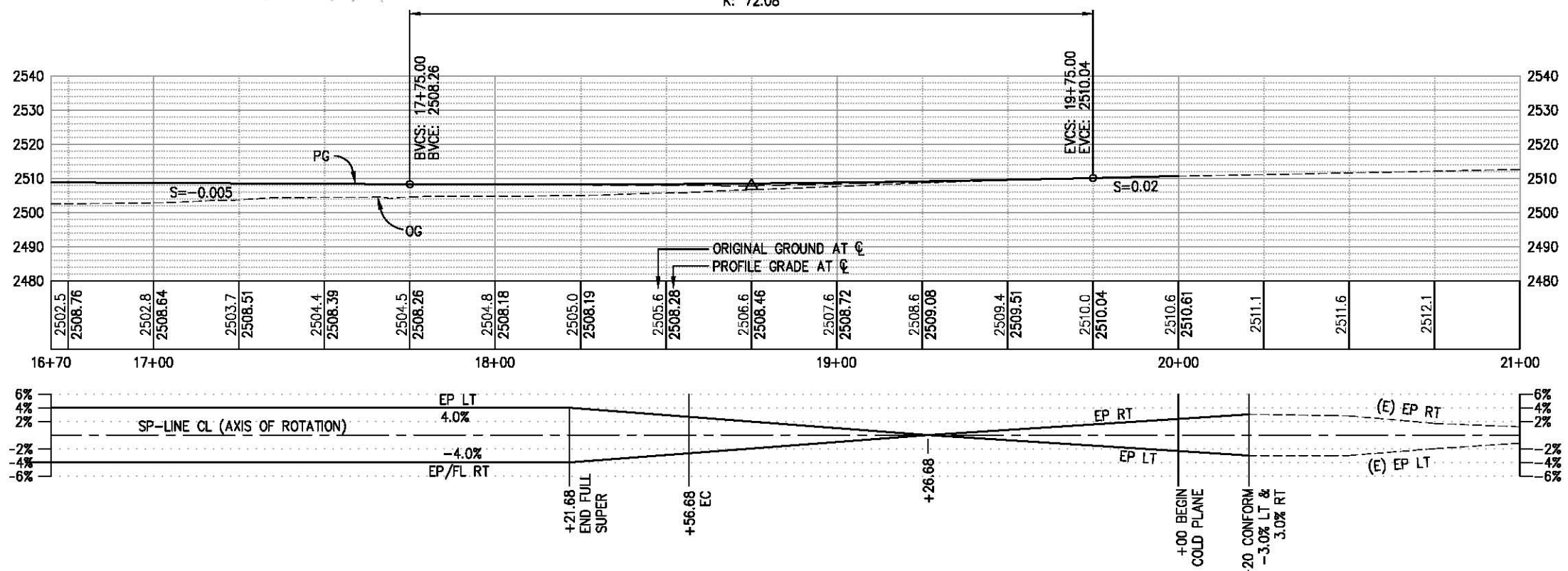
LAYOUT-'SP' LINE (SLY PARK RD)
 SCALE : 1" = 20' H,V

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REVISION</th> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISION	NUMBER	DATE	DESCRIPTION	BY							PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER DATE: 01/30/18	DESIGNED: DWH DRAWN: SGM CHECKED: DWH DATE: 01/18/18 ROAD NUMBER: 090		COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	SLY PARK RD AT CLEAR CREEK CROSSING BRIDGE REPLACEMENT	SHEET L-1 5 OF 49 W.O. No. 77115
REVISION	NUMBER	DATE	DESCRIPTION	BY													

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets\L-Sheets.dwg Layout Tab: L-2 Jan 18, 2018 - 12:35pm SMC\ey



- CONSTRUCTION NOTES:**
- ① - 'SP' 16+71.95-26.15' RT
END MGS TRANSITION RAILING (TYPE WB-31)
OMITTING POST T1, BEGIN MGS TERMINAL
SYSTEM, ONE ELEMENT SHOP CURVED TO 22'
RADIUS
 - ② - 'SP' 16+84.60-29.55' RT
END MGS TERMINAL SYSTEM
 - ③ - BEGIN MGS TRANSITION RAILING (TYPE
WB-31) PER A77U4
 - ④ - 'SP' 17+00.35-25.20' LT
END MGS TRANSITION RAILING (TYPE WB-31),
BEGIN MGS IN-LINE TERMINAL SYSTEM
 - ⑤ - 'SP' 17+36.15-24.85' LT
END MGS IN-LINE TERMINAL SYSTEM



LAYOUT-'SP' LINE (SLY PARK RD)
SCALE: 1" = 20' H,V

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 09D

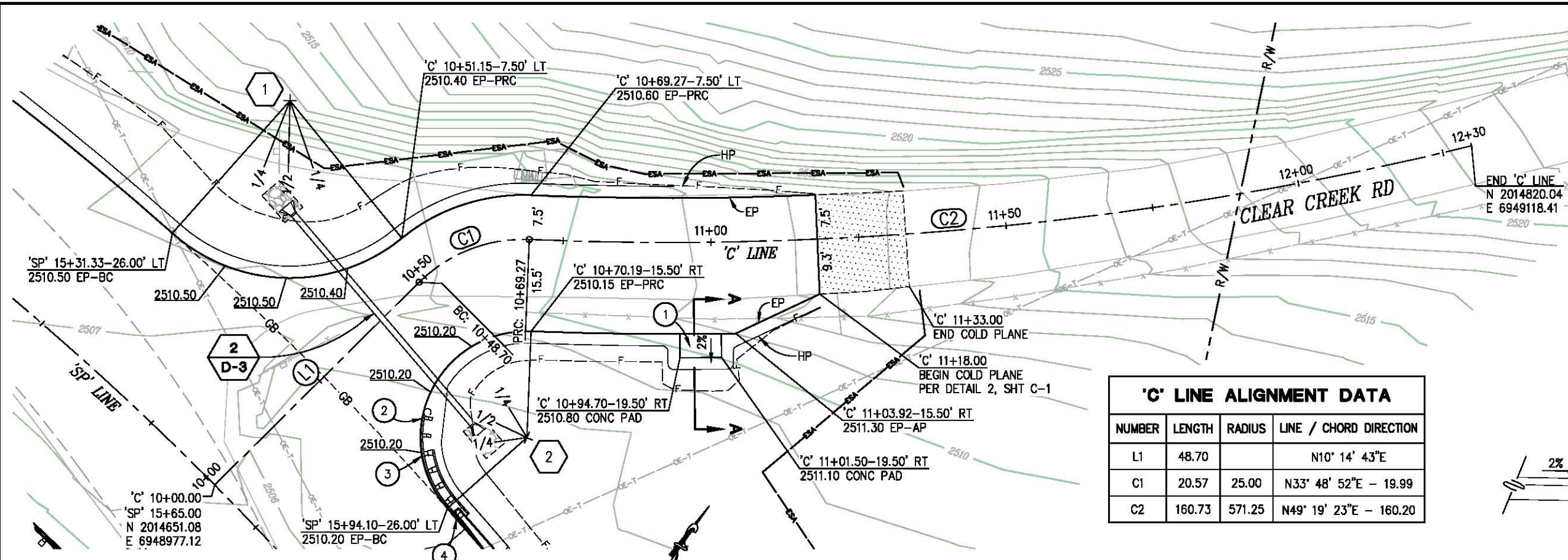


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT

SHEET
L-2
 6 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
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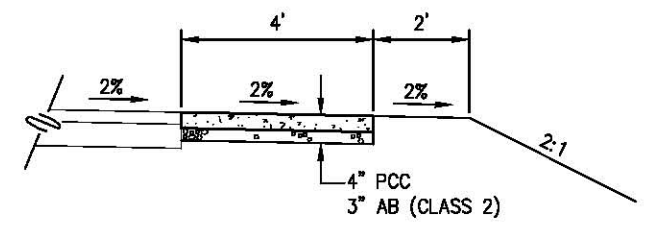
- CONSTRUCTION NOTES:**
- ① - CONCRETE PAD FOR MAIL BOX CLUSTER, SEE SECTION A-A
 - ② - 'SP' 15+80.70-33.30' LT BEGIN MGS IN-LINE TERMINAL SYSTEM
 - ③ - 'SP' 15+84.95-29.05' LT END MGS IN-LINE TERMINAL SYSTEM, BEGIN MGS TRANSITION RAILING (TYPE WB-31) PER A77U4
 - ④ - 'SP' 15+96.35-26.15' LT END MGS TRANSITIONS RAILING (TYPE WB-31)

LEGEND:

— ESA — TEMPORARY FENCE (TYPE ESA)

'C' LINE ALIGNMENT DATA

NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION
L1	48.70		N10° 14' 43"E
C1	20.57	25.00	N33° 48' 52"E - 19.99
C2	160.73	571.25	N49° 19' 23"E - 160.20



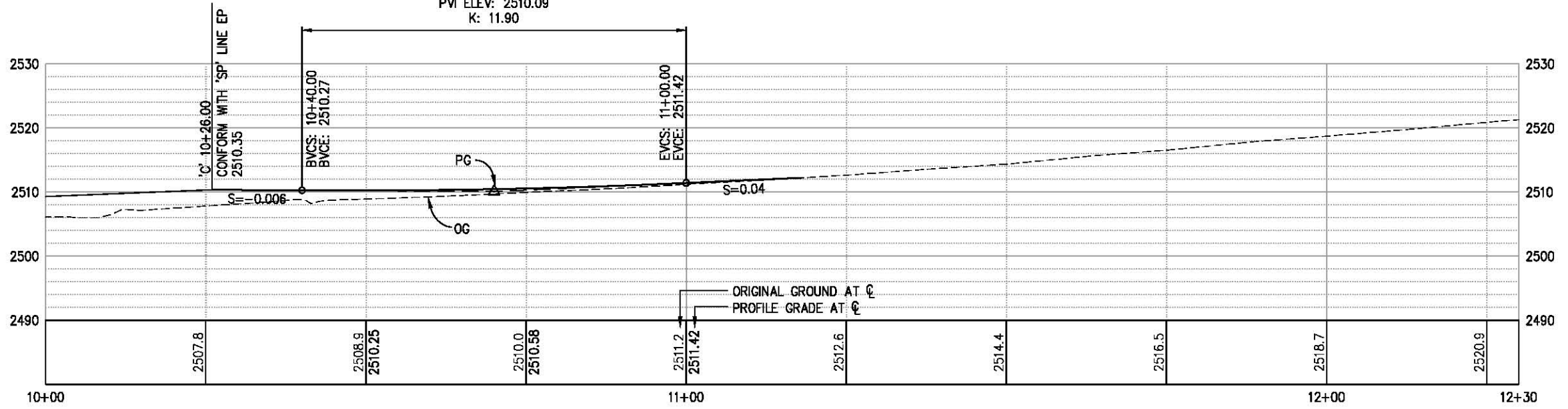
**SECTION A-A
MAIL BOX PAD**

NTS
 NOTE: SEE DETAIL 7, SHT C-1 FOR USPS MAILBOX

INTERSECTION CURVE RETURN DATA

REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
①	'SP' 15+31.33-56.00 Lt 'C' 10+51.15-37.50 Lt	42.28	30 TO EP	80°44'37"	N56°14'01"E 38.86
②	'SP' 15+94.10-44.00 Lt 'C' 10+43.14-31.50 Rt	42.07	18 TO EP	133°54'02"	N9°39'32"W 33.13

60.00 VC
 PVI STA: 10+70.00
 PVI ELEV: 2510.09
 K: 11.90



LAYOUT-'C' LINE (CLEAR CREEK RD)
 SCALE: 1" = 10' H,V

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER
 JUSTIN W. HARRINGTON
 No. C71517
 License Expires 12-31-18
 CIVIL
 STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

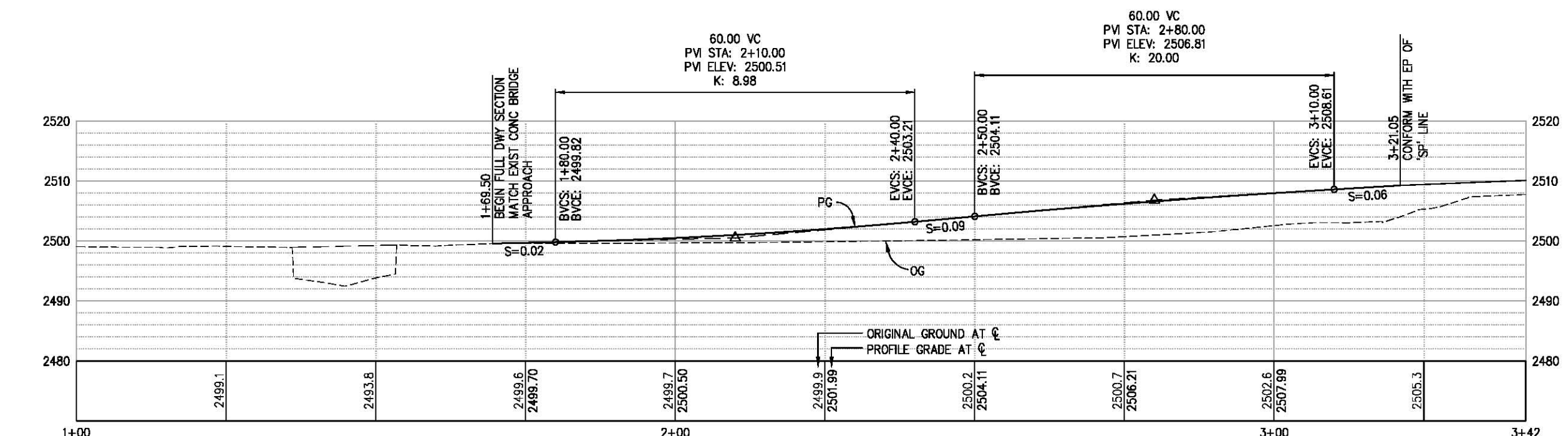
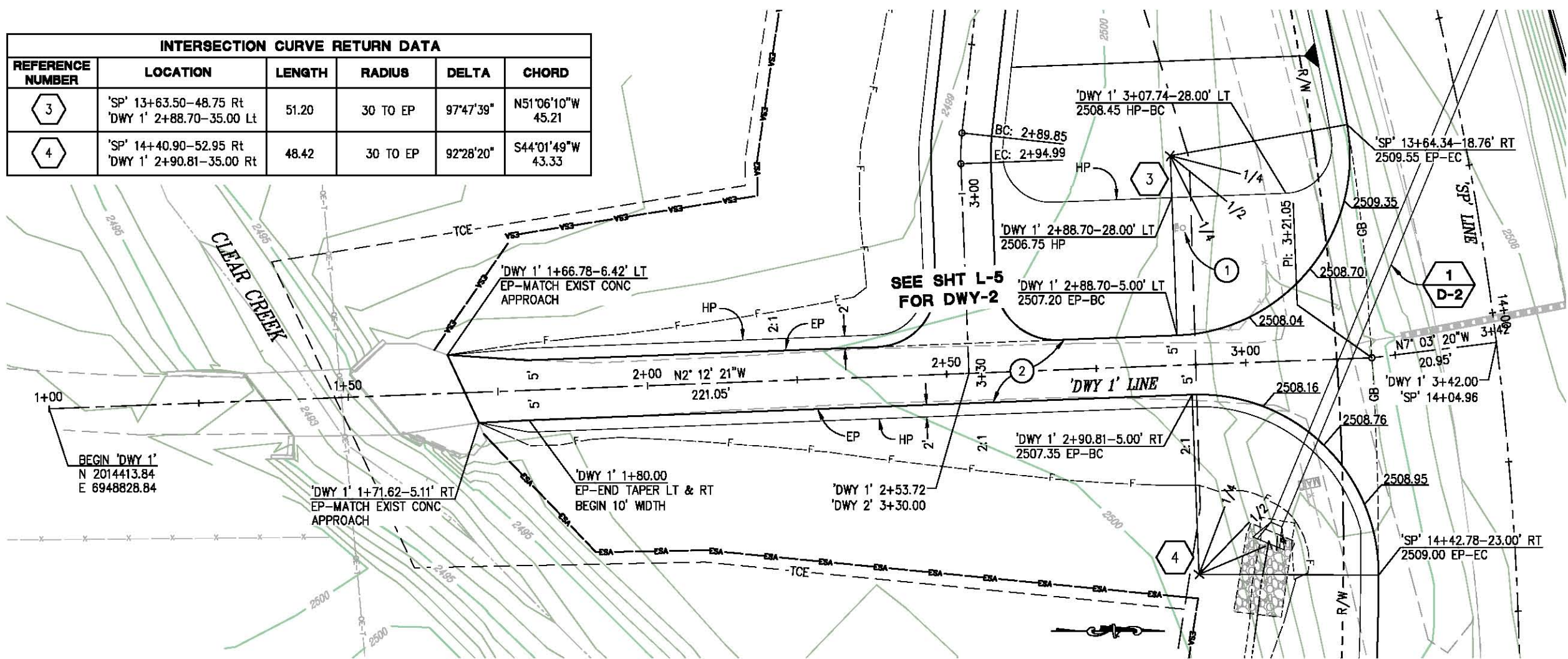
SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT

SHEET
L-3
 7 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77115 SLY PARK-CLEAR CRK BRIDGE-CLEAR CRK BRIDGE\CADD Files\Sheets\L-Sheets.dwg Layout Tab: L-4 Jan 18, 2018 - 12:36pm SMC\Key

INTERSECTION CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
3	'SP' 13+63.50-48.75 Rt 'DWY 1' 2+88.70-35.00 Lt	51.20	30 TO EP	97°47'39"	N51°06'10"W 45.21
4	'SP' 14+40.90-52.95 Rt 'DWY 1' 2+90.81-35.00 Rt	48.42	30 TO EP	92°28'20"	S44°01'49"W 43.33

- CONSTRUCTION NOTES:**
- ① - WELL CASING, RAISE TO GRADE, SEE DETAIL 1, SHT C-1
 - ② - 2.5" HMA (TYPE A)
4" AB (CLASS 2)



LAYOUT-DWY 1
SCALE: 1" = 10' H,V



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090



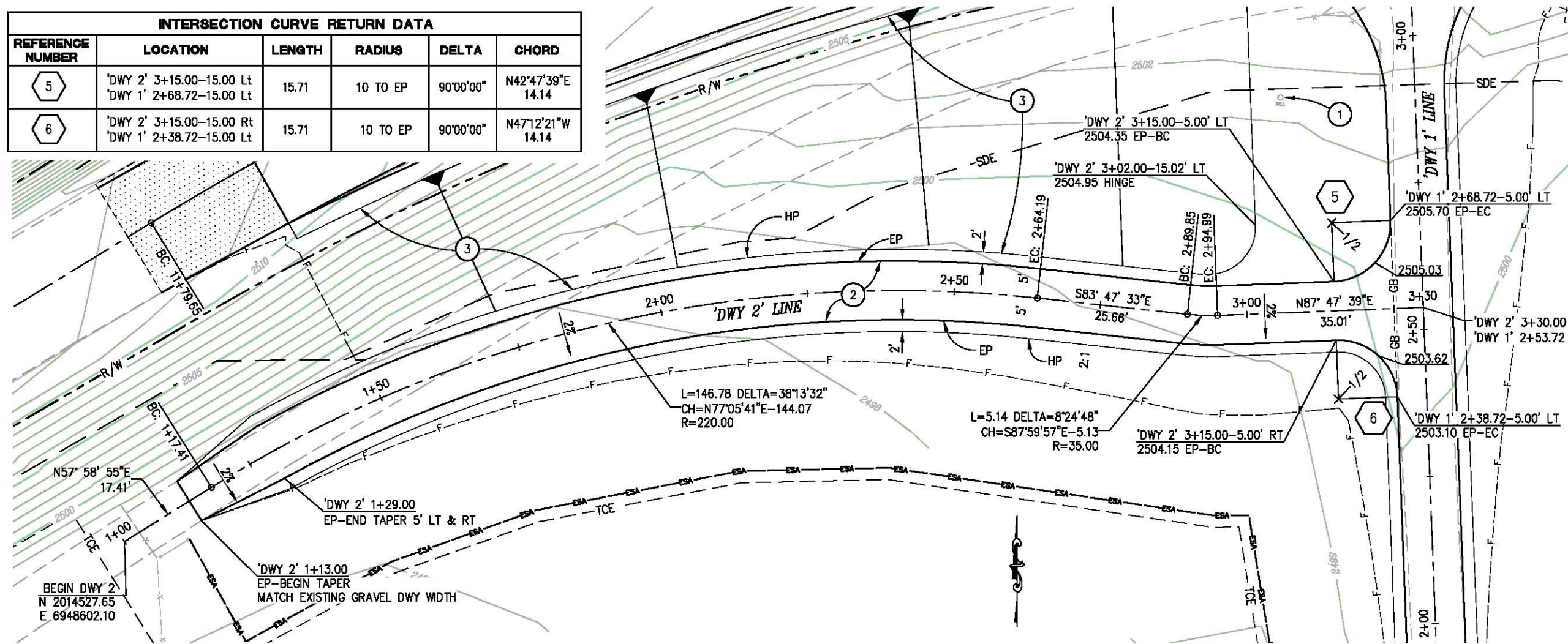
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT

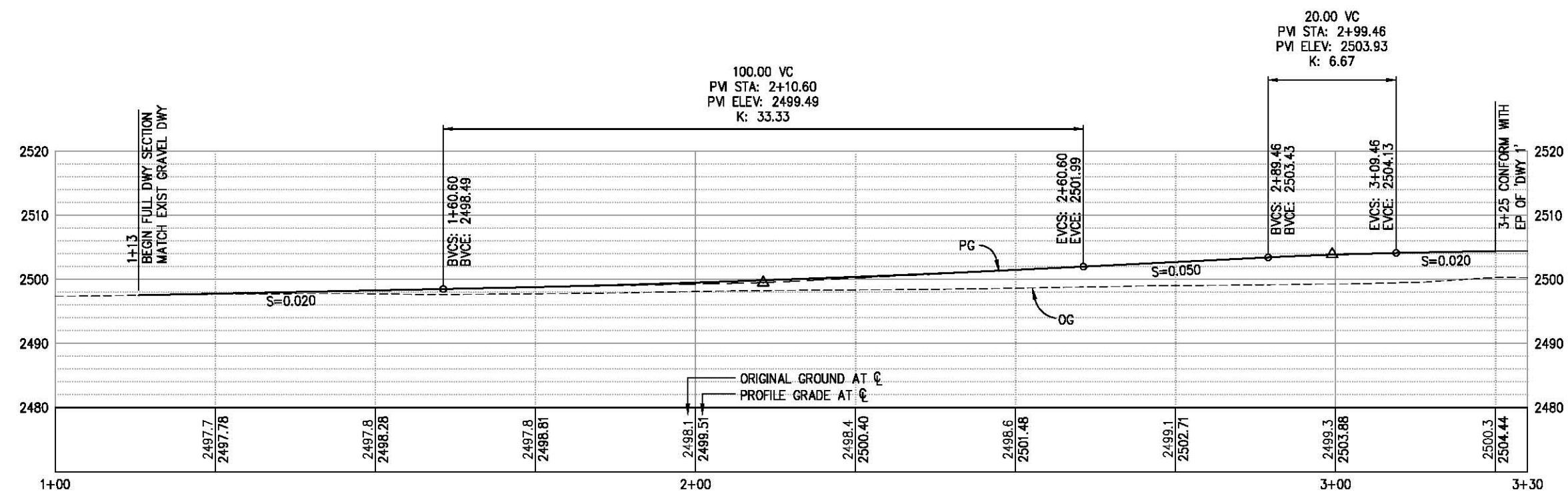
SHEET
 L-4
 8 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD\Files\Sheets\L-Sheets.dwg Layout Tab: L-5 Jan 18, 2018 - 12:36pm SMcVey

INTERSECTION CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
5	'DWY 2' 3+15.00-15.00 Lt 'DWY 1' 2+68.72-15.00 Lt	15.71	10 TO EP	90°00'00"	N42°47'39"E 14.14
6	'DWY 2' 3+15.00-15.00 Rt 'DWY 1' 2+38.72-15.00 Lt	15.71	10 TO EP	90°00'00"	N47°12'21"W 14.14



- CONSTRUCTION NOTES:**
- ① — WELL CASING, RAISE TO GRADE, SEE DETAIL 5, SHT C-2
 - ② — 2.5" HMA (TYPE A)
4" AB (CLASS 2)
 - ③ — STRAIGHT GRADE SLOPE FROM 'SP' LINE RIGHT HP TO 'DWY 2' LEFT HP, SEE SHT X-1



LAYOUT-DWY 2
SCALE: 1" = 10' H,V



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
REGISTERED CIVIL ENGINEER
DATE: 01/30/18

DESIGNED: DWH
DRAWN: SGM
CHECKED: DWH
DATE: 01/18/18
ROAD NUMBER: 09D

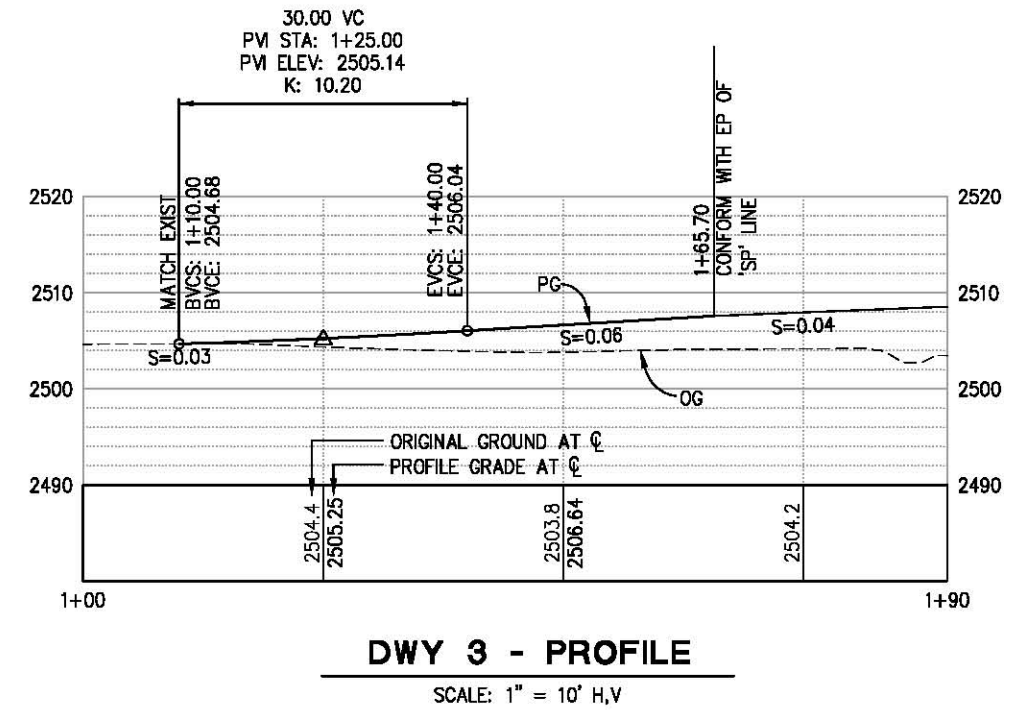
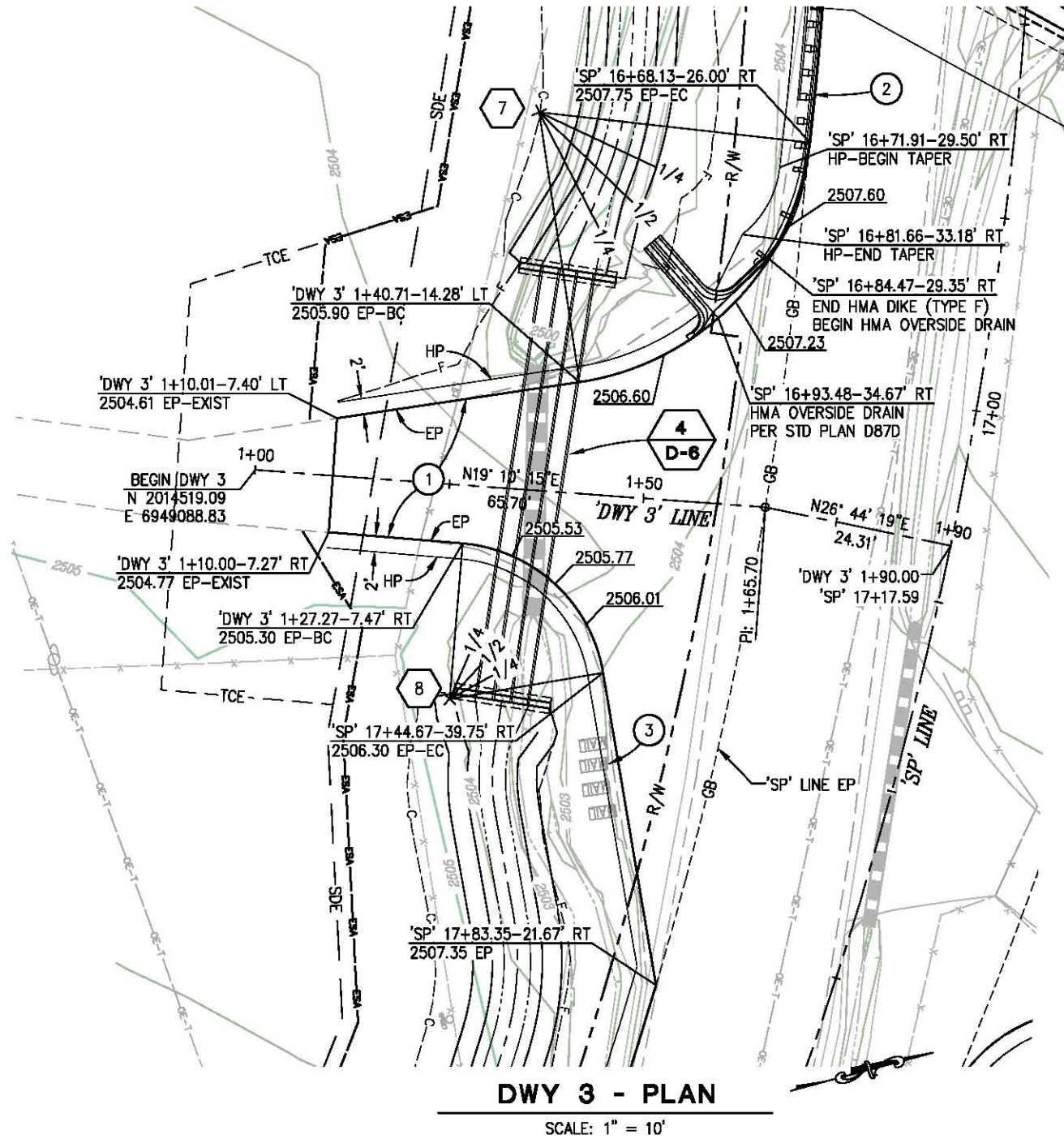


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
L-5
9 OF 49
W.O. No. 77115

INTERSECTION CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
7	'DWY 3' 1+33.06-48.43 Lt 'SP' 16+68.13-61.00 Rt	45.91	35 TO EP	75°09'17"	N31°01'44"W 42.69
8	'DWY 3' 1+27.03-27.47 Rt 'SP' 17+53.91-57.90 Rt	26.36	20 TO EP	75°31'45"	S57°36'55"W 24.50



CONSTRUCTION NOTES:

- ① — 2.5" HMA (TYPE A)
4" AB (CLASS 2)
- ② — SEE SHT L-2 FOR GUARDRAIL
PLACEMENT
- ③ — PROTECT MAILBOXES IN PLACE

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD\Files\Sheets\L-Sheets.dwg Layout Tab: L-6 Jan 18, 2018 12:36pm SMcVey



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
REGISTERED CIVIL ENGINEER
DATE: 01/30/18

DESIGNED: DWH
DRAWN: SGM
CHECKED: DWH
DATE: 01/18/18
ROAD NUMBER: 09D



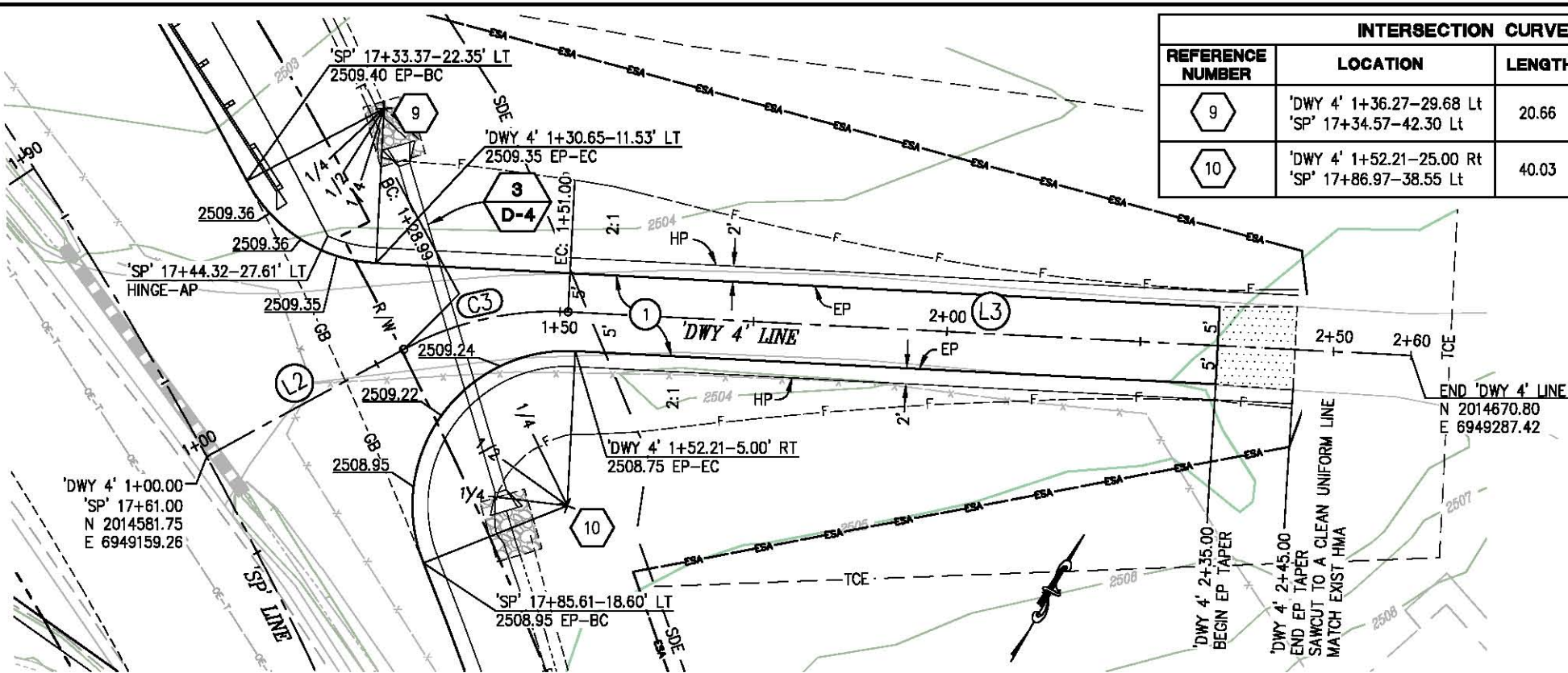
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

LAYOUT-DWY 3
SCALE: AS SHOWN

SHEET
L-6
10 OF 49
W.O. No. 77115

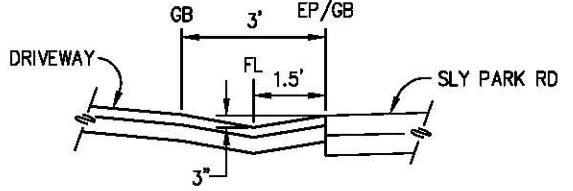
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 FOR REDUCED PLANS



INTERSECTION CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
9	'DWY 4' 1+36.27-29.68 Lt 'SP' 17+34.57-42.30 Lt	20.66	20 TO EP	57°11'26"	S87°26'15"E 19.75
10	'DWY 4' 1+52.21-25.00 Rt 'SP' 17+86.97-38.55 Lt	40.03	20 TO EP	114°41'09"	S05°37'27"W 33.68

CONSTRUCTION NOTES:

- ① - 2.5" HMA (TYPE A)
- 4" AB (CLASS 2)



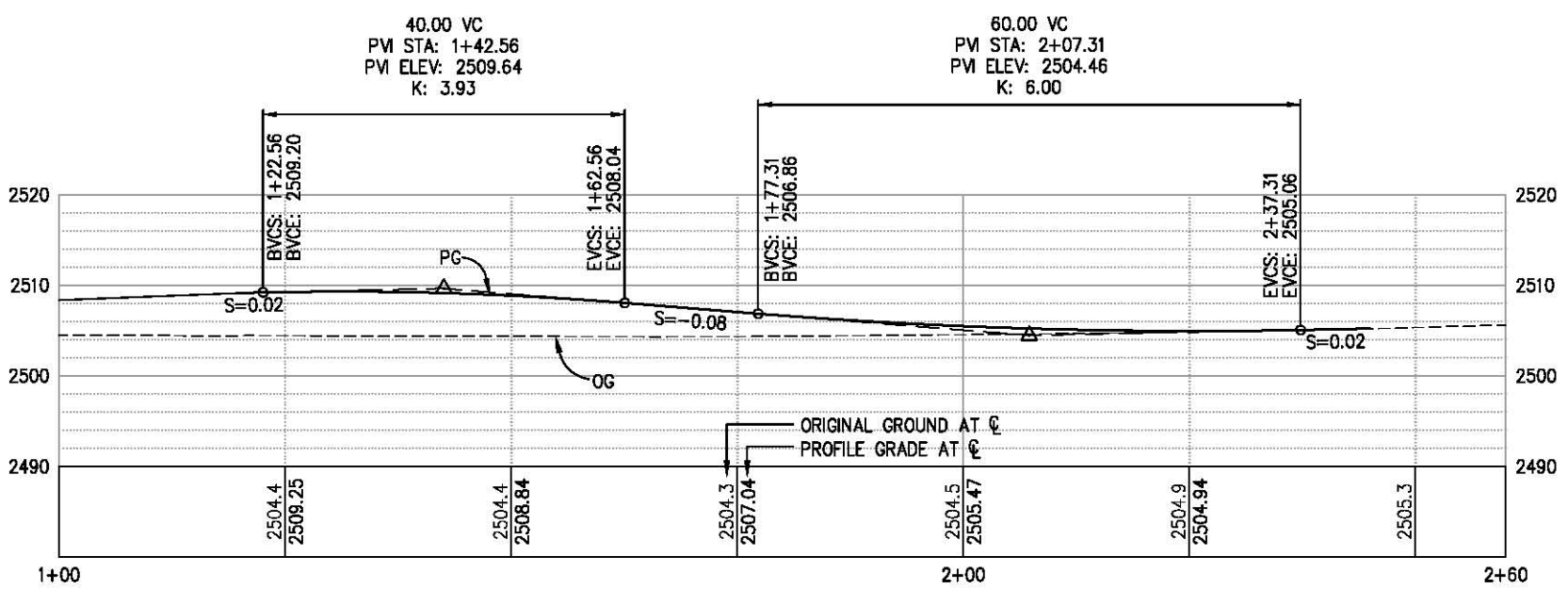
SECTION A-A
(DRIVEWAY VALLEY GUTTER)
NTS

INTERSECTION CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
11	'SP' 19+15.82-35.59 Rt	34.94	20 TO EP	100°05'03"	N01°14'57"W 30.66
12	'SP' 19+61.04-25.16 Rt	23.17	12 TO EP	110°38'47"	S73°23'08"W 19.74

'DWY 4' LINE ALIGNMENT DATA			
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION
L2	28.99		N31° 26' 02"E
C3	22.01	40.00	N47° 12' 02"E - 21.74
L3	109.00		N62° 58' 02"E

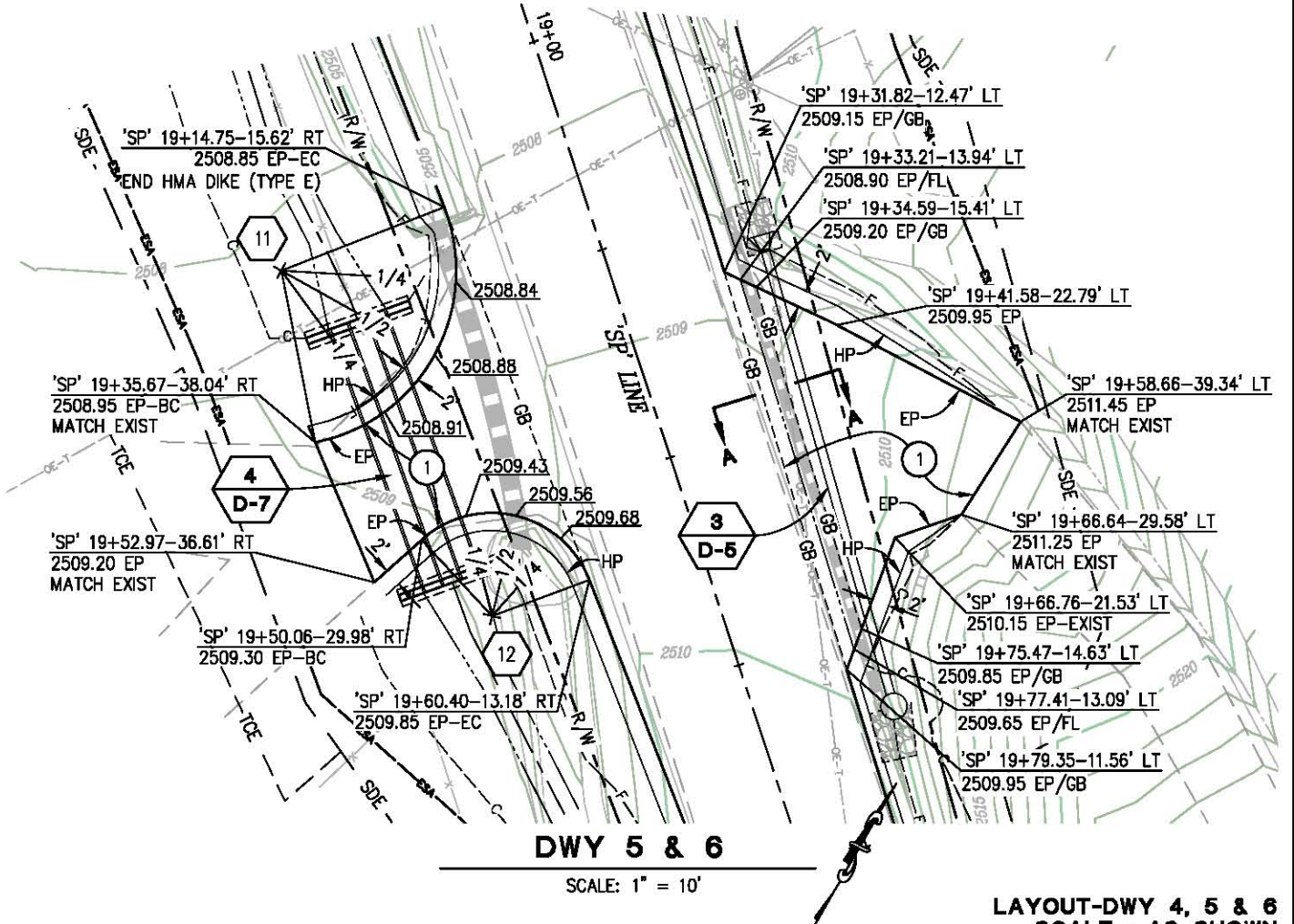
DWY 4 - PLAN

SCALE: 1" = 10'

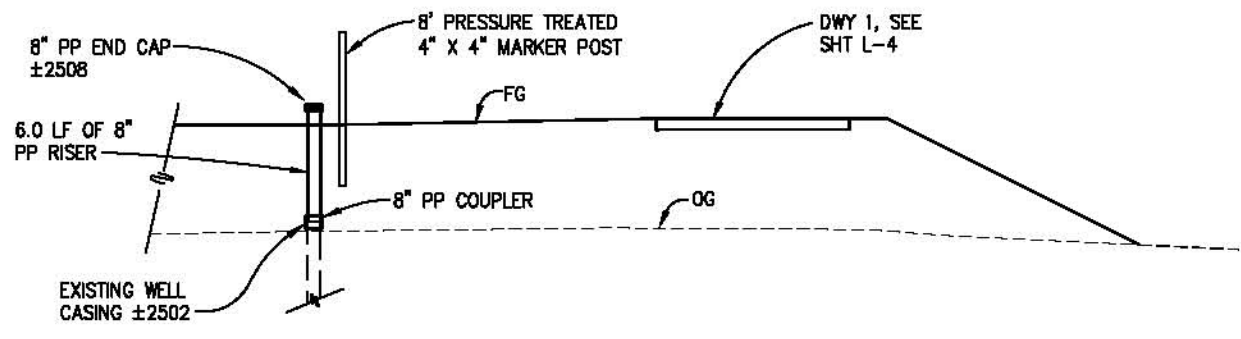


DWY 4 - PROFILE

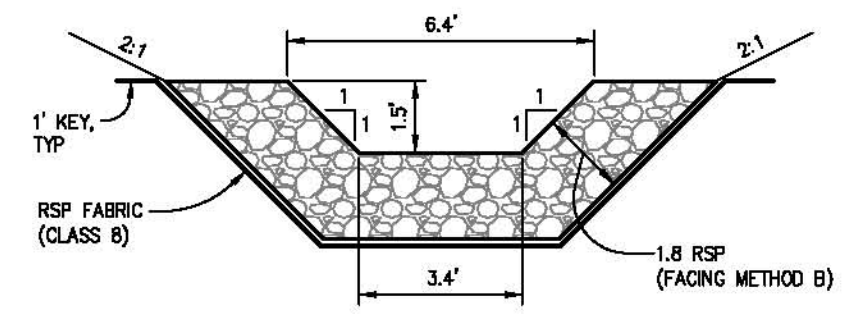
SCALE: 1" = 10' H,V



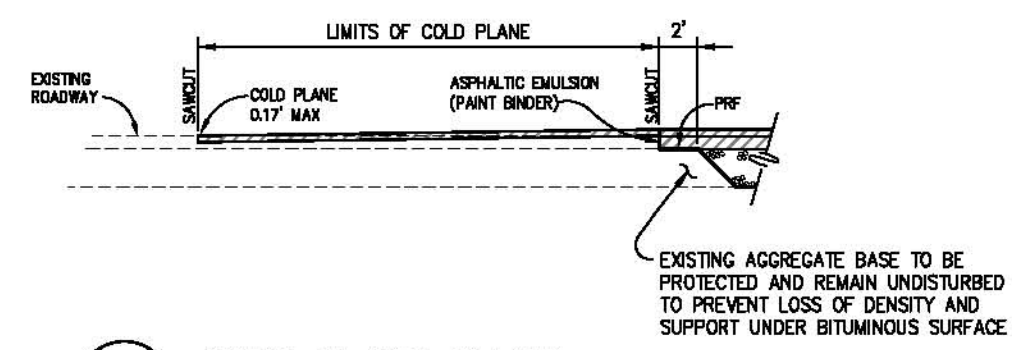
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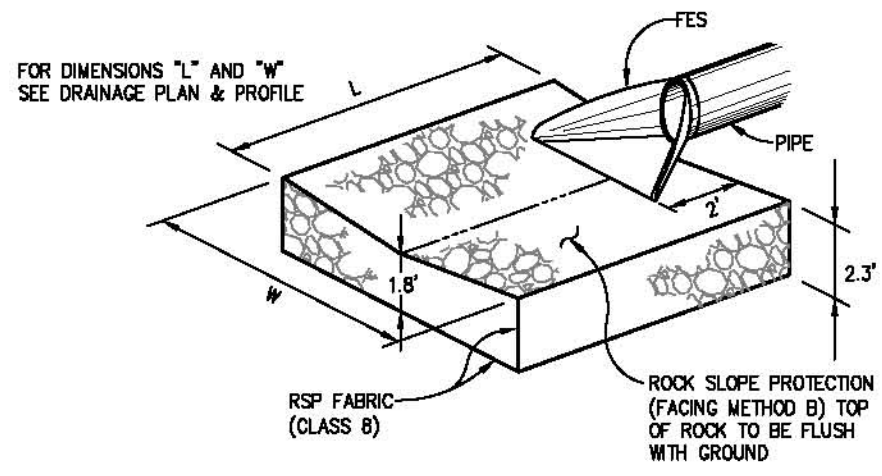
1 WELL CASING EXTENSION
 'DWY 1' ±2+90 LT
 NTS



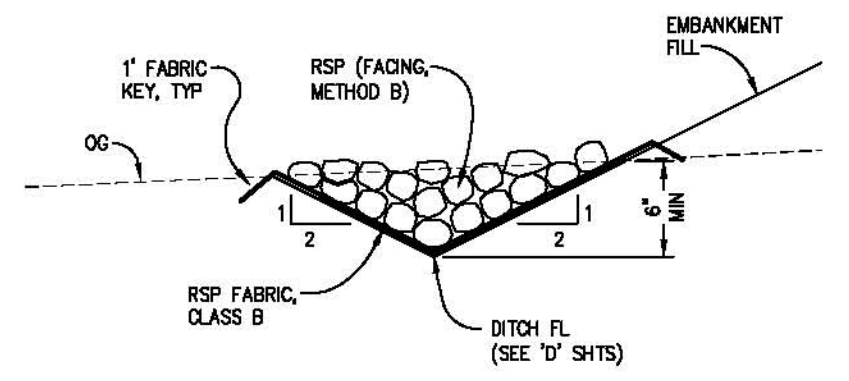
4 ROCK DITCH
 NTS



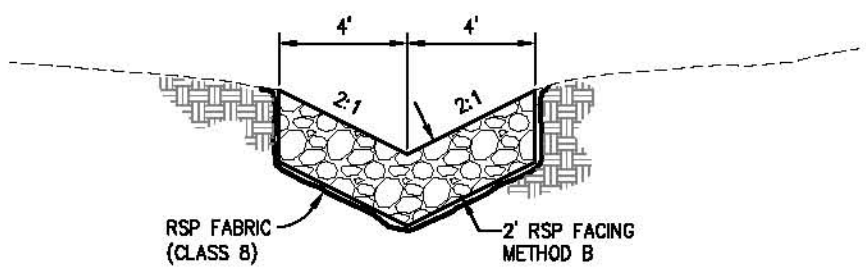
2 COLD PLANE DETAIL
 NTS



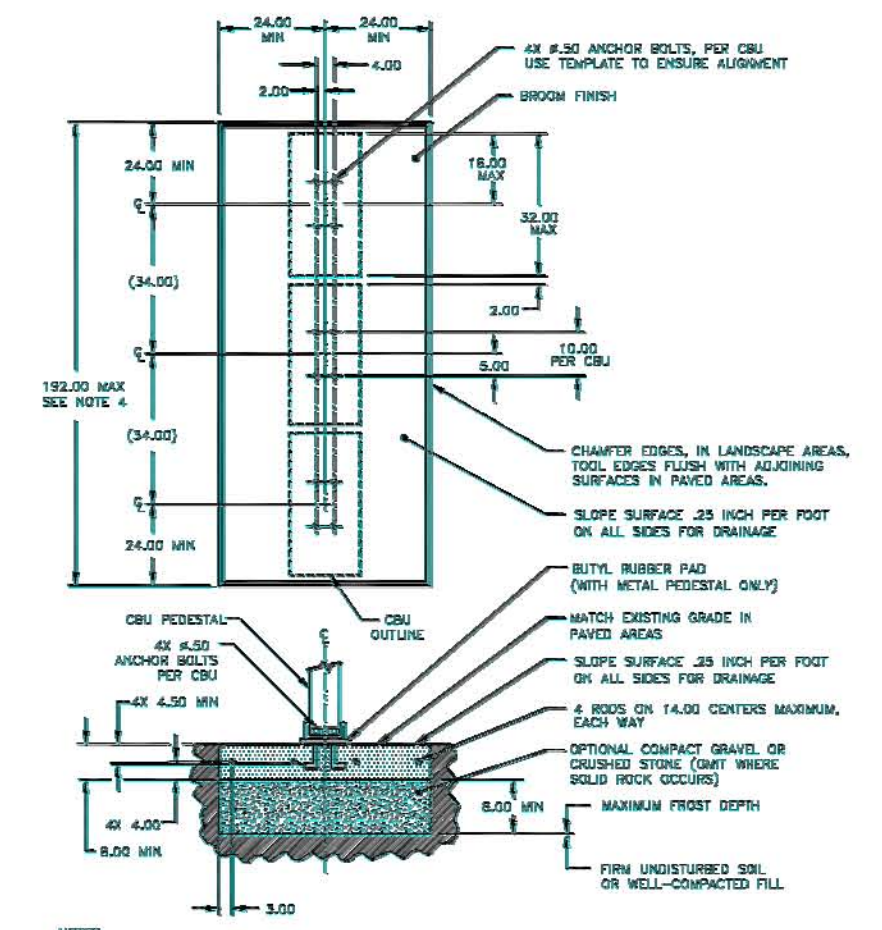
5 ROCK ENERGY DISSIPATOR
 NTS



3 TOE OF SLOPE DITCH
 NTS
 NOTE: MIRROR DETAIL FOR RIGHT SIDE OF ROADWAY



6 ROCK V-DITCH
 NTS



- NOTES:
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS, CONTAIN 4% MIN - 6% MAX AIR ENTRAINMENT AND BE PLACED WITH A 3.50 - 4.50 SLUMP IN ACCORDANCE WITH ACI 301.
 2. REINFORCING STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60.
 3. ANCHOR BOLTS SHALL CONFORM TO ASTM A193, GRADE 88M, TYPE 316 STAINLESS STEEL.
 4. A 3 CBU CONFIGURATION IS DEPICTED. A 2 OR 4 CBU CONFIGURATION MAY BE USED AS LONG AS THEY ARE ARRANGED IN GROUPS SUCH THAT THE OVERALL DIMENSION OF THE CONCRETE BASE DOES NOT EXCEED 192 INCHES.

7 MAILBOX DETAIL
 NTS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090

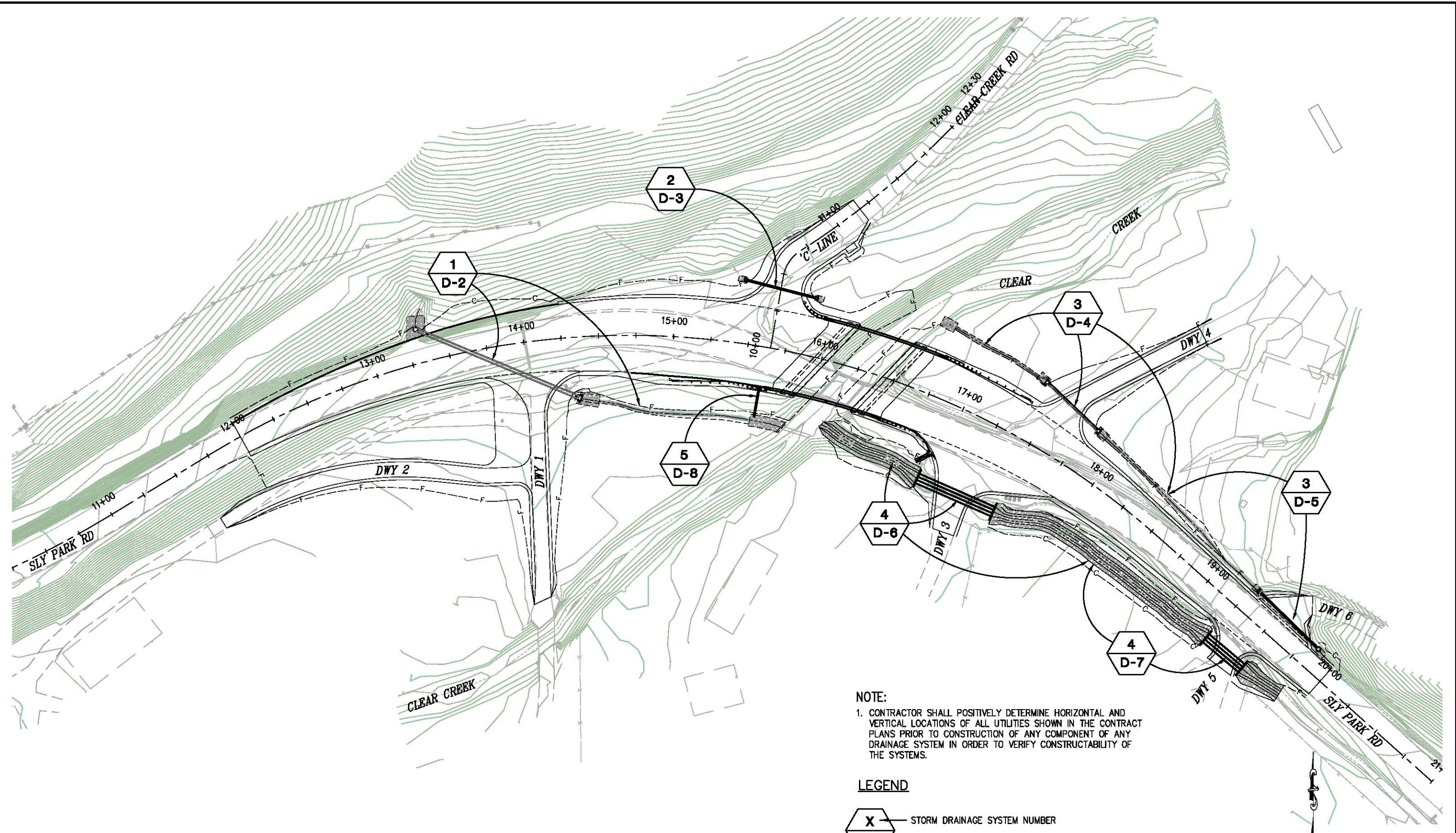


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT

SHEET
C-1
 12 OF 49
 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets D-Sheets.dwg Layout Tab: D-1 Jan 19, 2018 - 10:40am SMcVey
 FOR REDUCED PLANS



NOTE:
 1. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN IN THE CONTRACT PLANS PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE SYSTEMS.

LEGEND
 STORM DRAINAGE SYSTEM NUMBER
 DETAIL SHEET NUMBER

DRAINAGE SITE PLAN
 SCALE : 1" = 30'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/19/18
 ROAD NUMBER: 09D

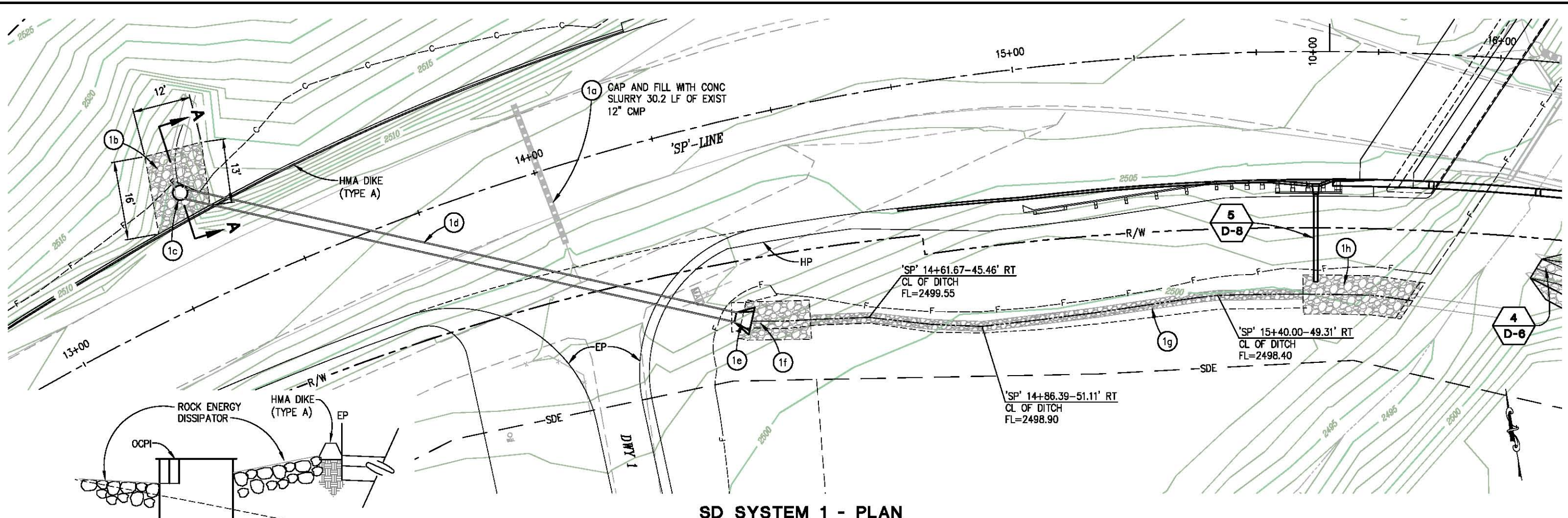


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

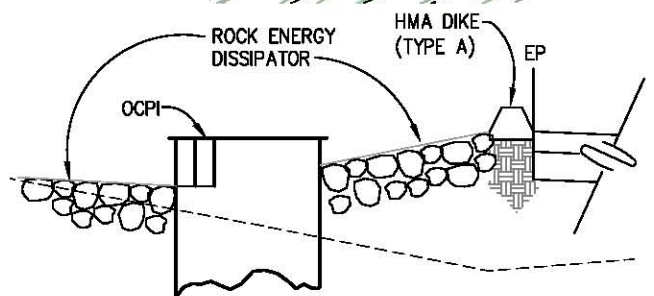
SHEET
D-1
 13 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets D-Sheets.dwg Layout Tab: D-2 Jan 19, 2018 - 10:38am SMcVey
 FOR REDUCED PLANS
 REVISION

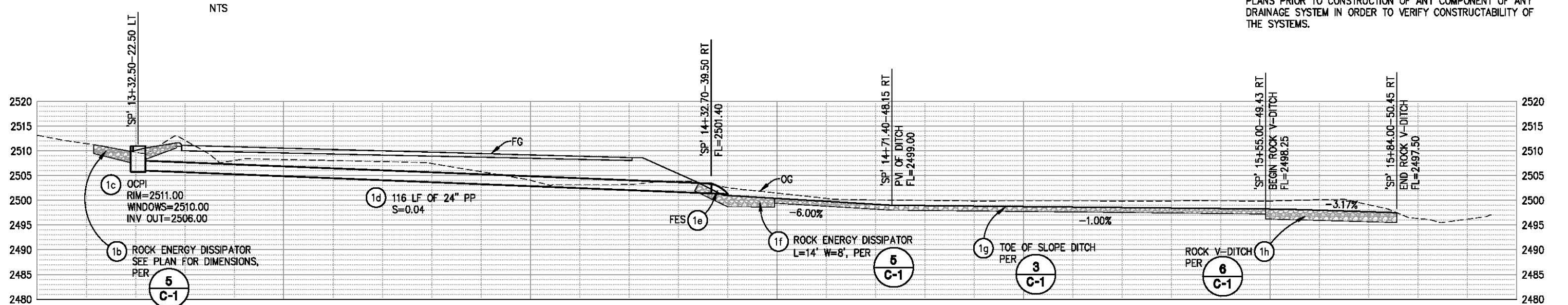


SD SYSTEM 1 - PLAN
SCALE: 1"=10'

NOTE:
 1. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN IN THE CONTRACT PLANS PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE SYSTEMS.



SECTION A-A
NTS



SD SYSTEM 1 - PROFILE
SCALE: 1"=10' H,V

DRAINAGE LAYOUT
SCALE: AS SHOWN



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/19/18
 ROAD NUMBER: 09D

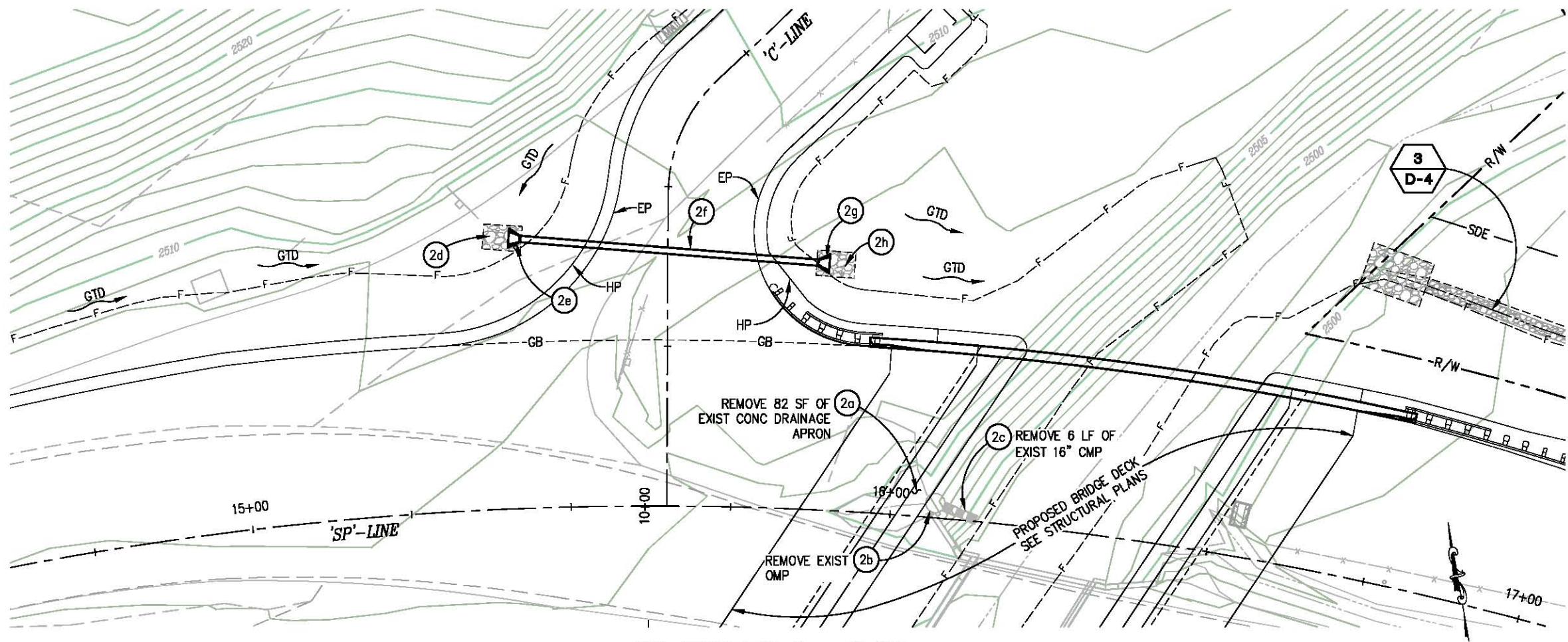


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
D-2
 14 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets D-Sheets.dwg Layout Tab: D-3 Jan 19, 2018 - 10:39am SMcVey
 FOR REDUCED PLANS
 2
 1
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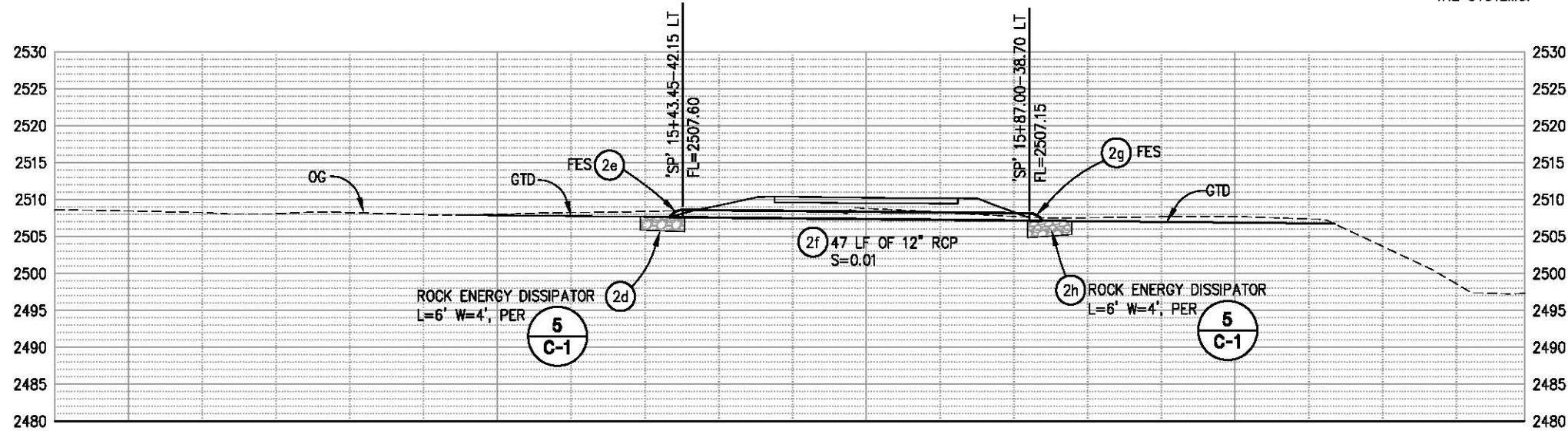


SD SYSTEM 2 - PLAN

SCALE: 1"=10'

NOTE:

1. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN IN THE CONTRACT PLANS PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE SYSTEMS.



SD SYSTEM 2 - PROFILE

SCALE: 1"=10' H,V

**DRAINAGE LAYOUT
SCALE: AS SHOWN**



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/19/18
 ROAD NUMBER: 09D

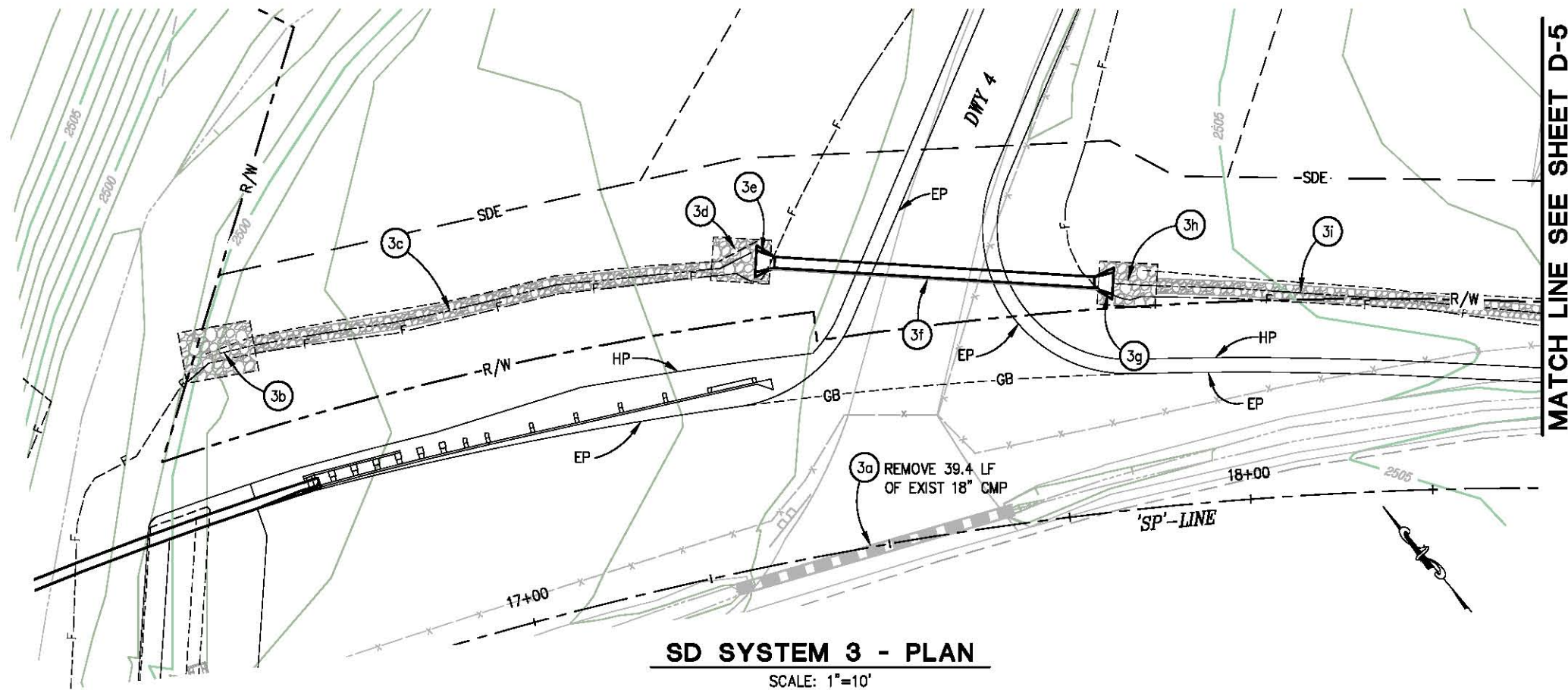


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

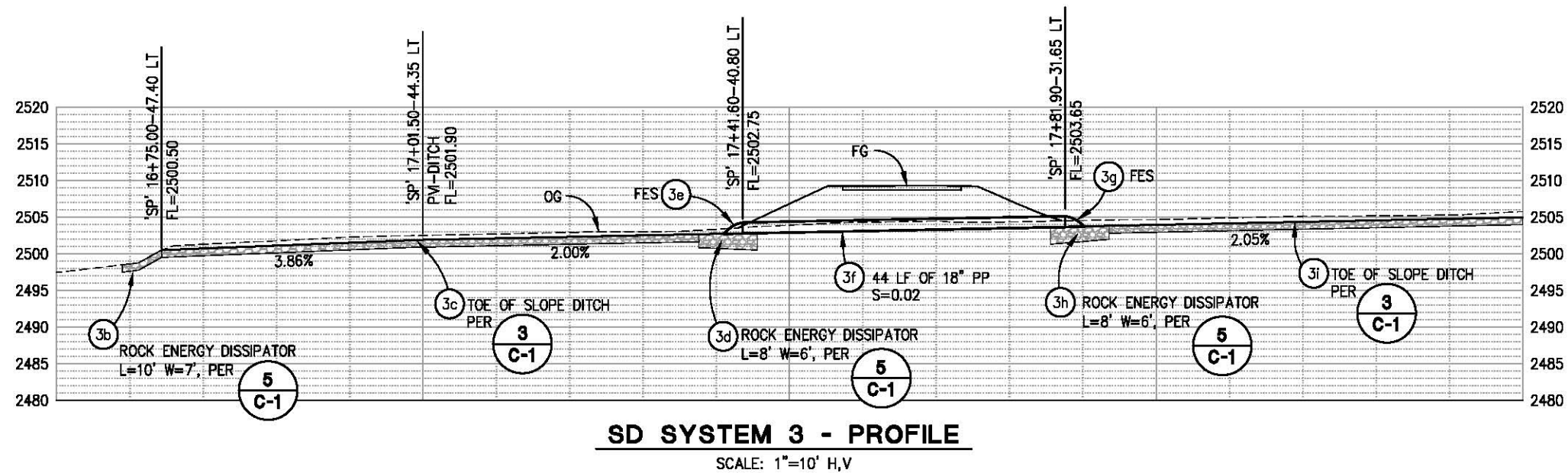
**SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT**

SHEET
D-3
 15 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets D-Sheets.dwg Layout Tab: D-4 Jan 19, 2018 - 10:43am SMcVey
 FOR REDUCED PLANS



MATCH LINE SEE SHEET D-5



NOTE:
 1. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN IN THE CONTRACT PLANS PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE SYSTEMS.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/19/18
 ROAD NUMBER: 09D

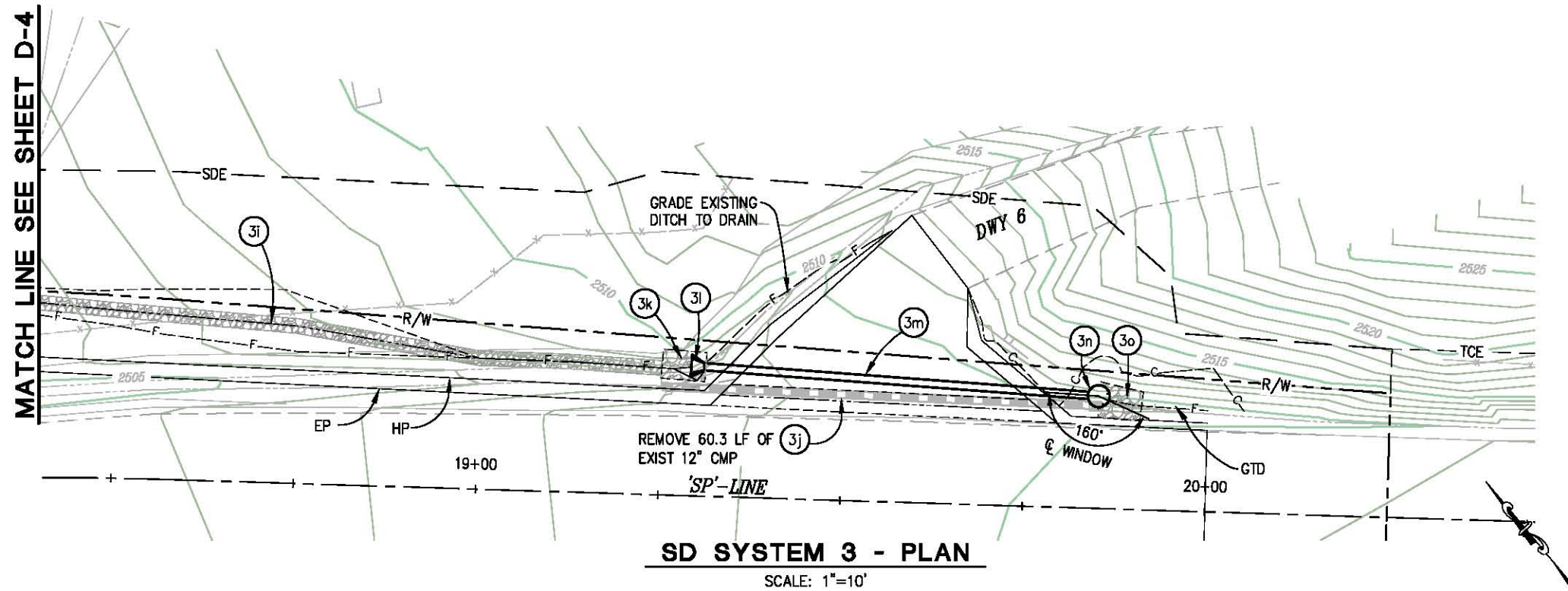


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

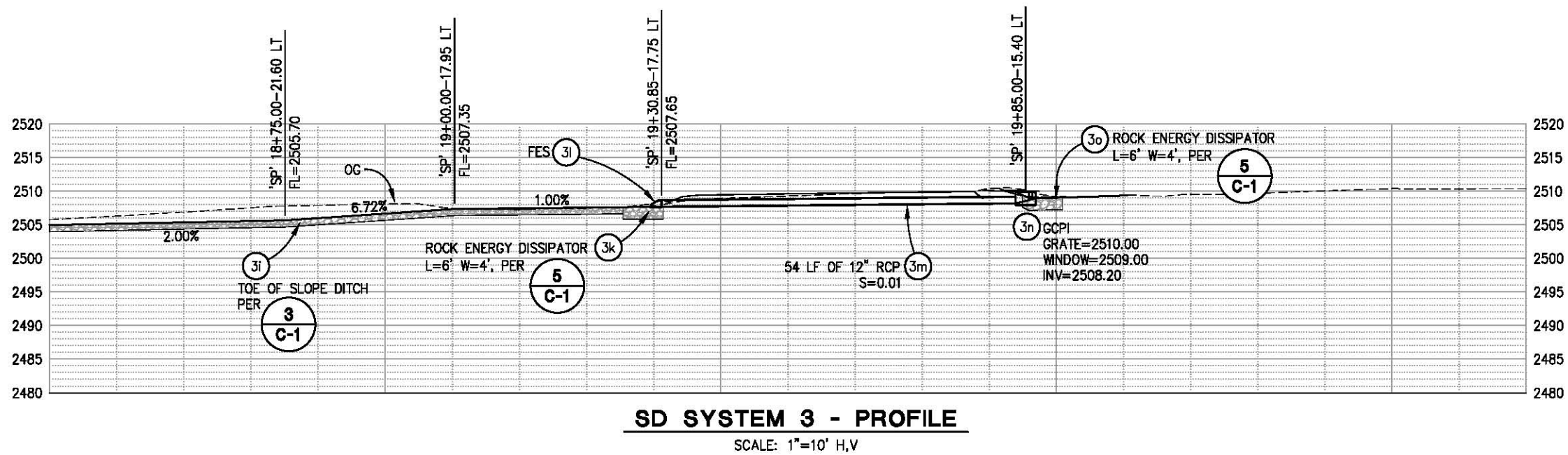
SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT

SHEET
D-4
 16 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets\D-Sheets.dwg Layout Tab: D-5 Jan 19, 2018 - 10:47am SMcVey
 FOR REDUCED PLANS
 2
 1
 0



- NOTES:**
- CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN IN THE CONTRACT PLANS PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE SYSTEMS
 - PROVIDE 6" MIN STRUCTURE BACKFILL (90% RELATIVE COMPACTION) AROUND UPPER 1/3 OF PIPE. AB (CLASS 2) THICKNESS MAY BE REDUCED WHERE COVER IS LIMITED.



**DRAINAGE LAYOUT
SCALE: AS SHOWN**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/19/18
 ROAD NUMBER: 09D

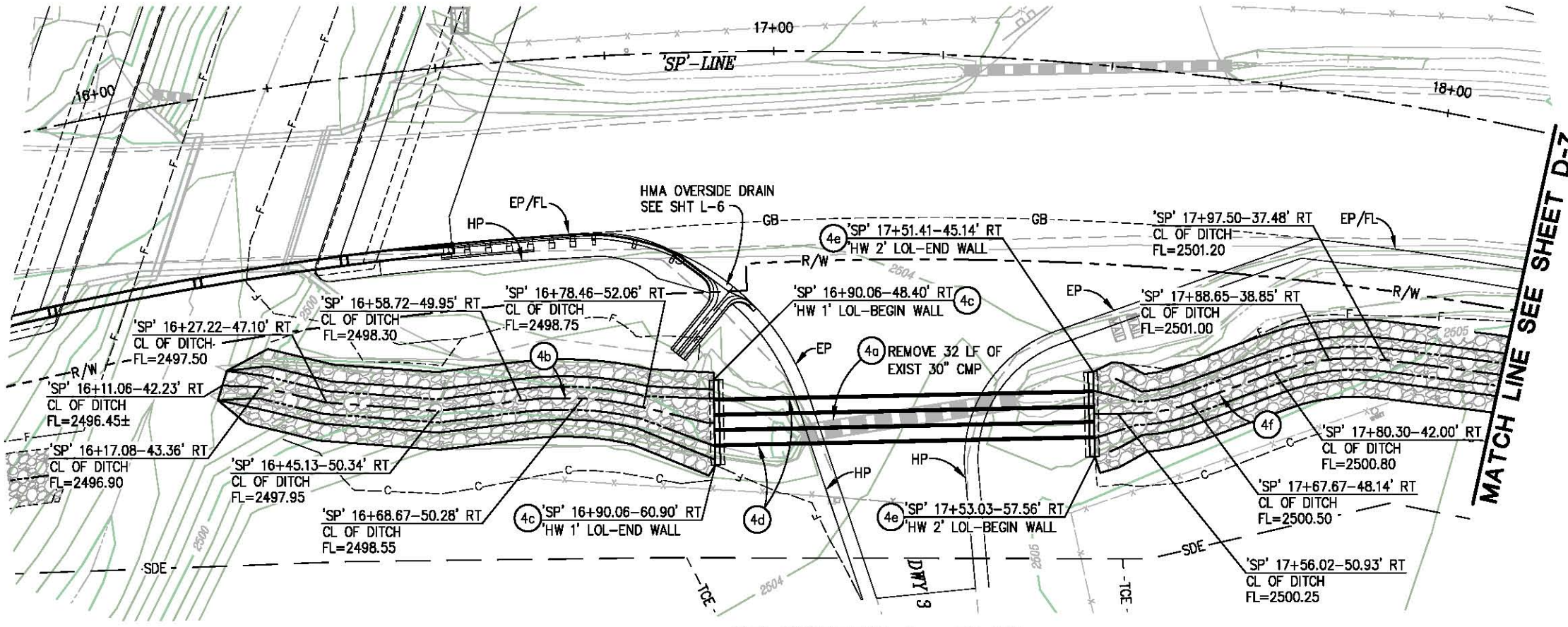


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT**

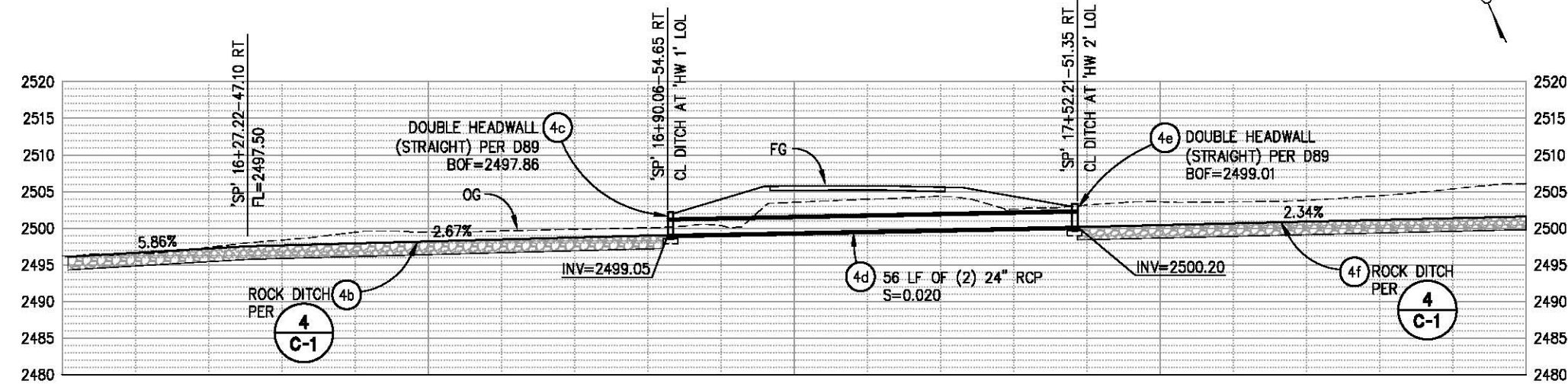
SHEET
D-5
 17 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77115 SLY PARK-CLEAR CRK BRIDGE-CADD Files\Sheets D-Sheets.dwg Layout Tab: D-6 Jan 18, 2018 - 12:46pm SMcVey
 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



SD SYSTEM 4 - PLAN

SCALE: 1"=10'



SD SYSTEM 4 - PROFILE

SCALE: 1"=10' H,V

NOTE:
 1. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN IN THE CONTRACT PLANS PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE SYSTEMS.



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090



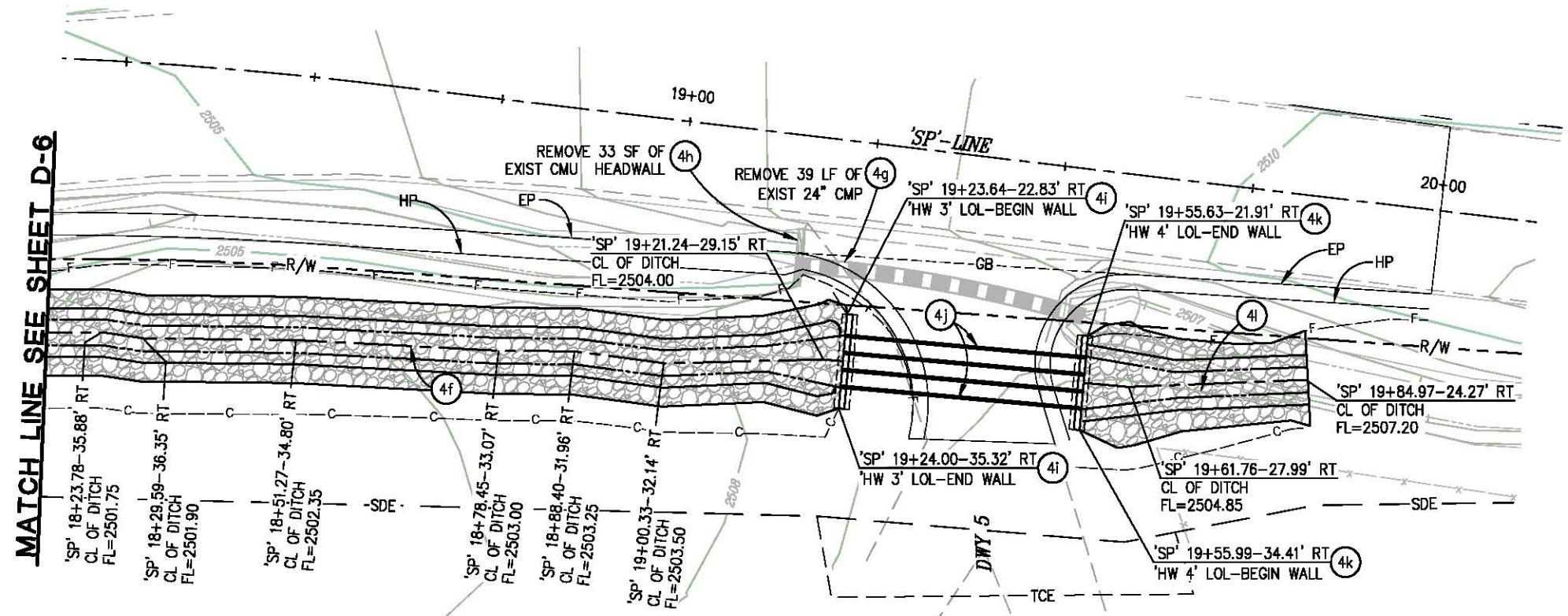
**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

**SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT**

**DRAINAGE LAYOUT
 SCALE: AS SHOWN**

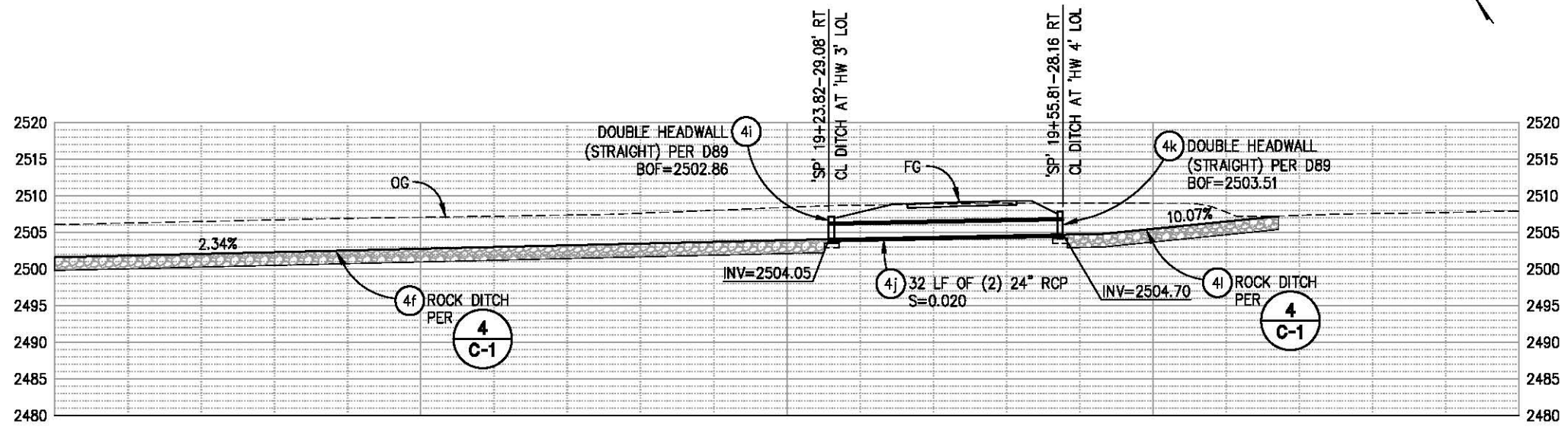
SHEET
D-6
 18 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 2
 1
 0



SD SYSTEM 4 - PLAN

SCALE: 1"=10'



SD SYSTEM 4 - PROFILE

SCALE: 1"=10' H,V

NOTE:
 1. CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN IN THE CONTRACT PLANS PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE SYSTEMS.

**DRAINAGE LAYOUT
 SCALE: AS SHOWN**



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 09D

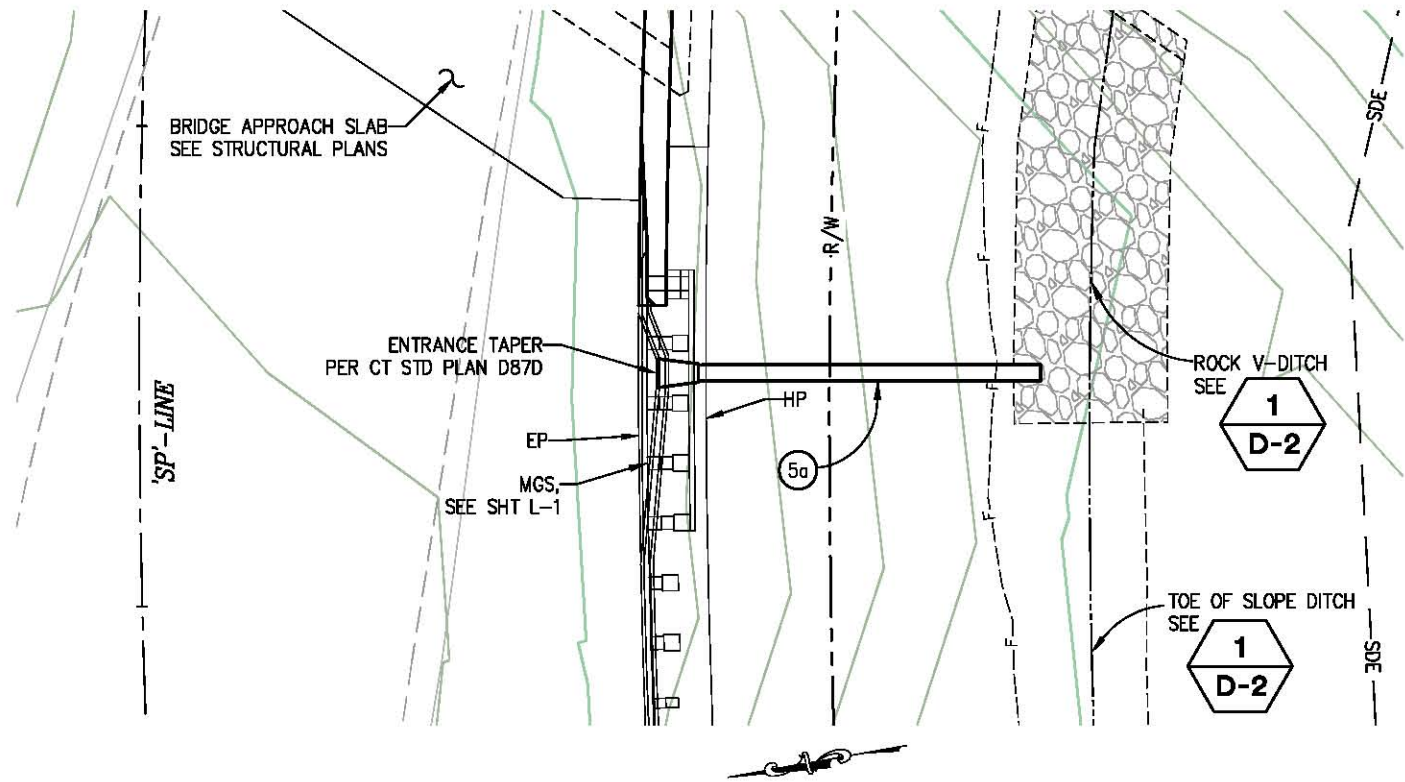


**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

**SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT**

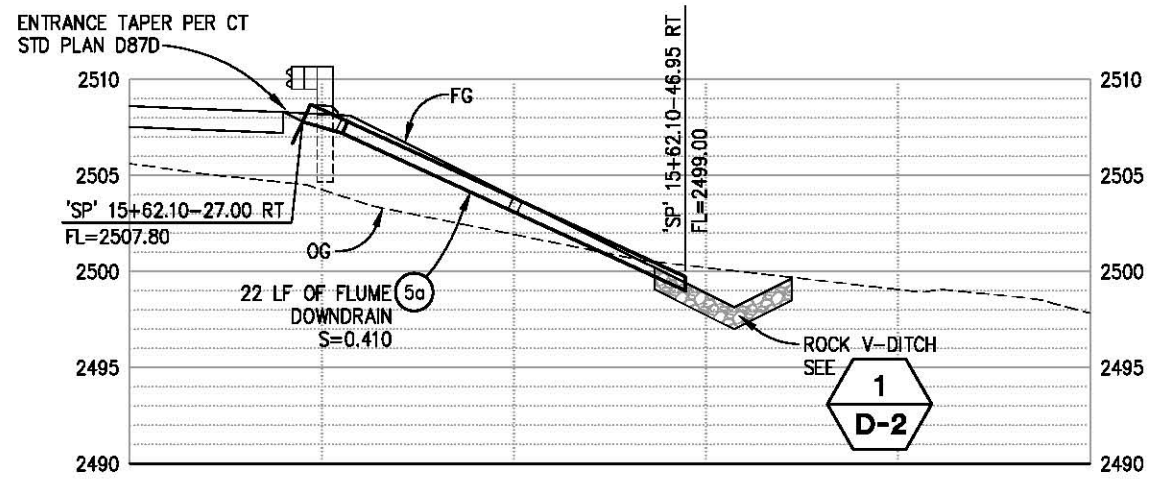
SHEET
D-7
 19 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 2
 1
 0



SD SYSTEM 5 DOWNDRAIN - PLAN

SCALE: 1"=5' H,V



SD SYSTEM 5 DOWNDRAIN - PROFILE

SCALE: 1"=5' H,V

NOTE:

- CONTRACTOR SHALL POSITIVELY DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN IN THE CONTRACT PLANS PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTABILITY OF THE SYSTEMS.

**DRAINAGE LAYOUT
SCALE : AS SHOWN**



PREPARED UNDER THE SUPERVISION OF :
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 09D



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT**

SHEET
D-8
 20 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets\D-Sheets.dwg Layout Tab: D-9 Jan 19, 2018 10:48am SMcVey

FOR REDUCED PLANS
2
1
0

DRAINAGE PLAN SHEET NO.	DRAINAGE SYSTEM NO.	DRAINAGE UNIT	36" OCPI DI	36" GCPI DI	FLUME DOWNDRAIN	12" RCP	18" PP (PLASTIC PIPE)	24" PP (PLASTIC PIPE)	24" RCP	12" FES (CONCRETE)	18" FES (STEEL)	24" FES (STEEL)	DOUBLE HEADWALL (STRAIGHT, L=12.5')	RSP (FACING METHOD B)	ROCK DITCH (FACING METHOD B)	ROCK DITCH EXCAVATION	TOE OF SLOPE DITCH EXCAVATION	PLUG & SLURRY BACK FILL EXISTING 12" CMP	REMOVE OMP	REMOVE 12" CMP	REMOVE 16" CMP	REMOVE 18" CMP	REMOVE 24" CMP	REMOVE 30" CMP	REMOVE CONC HEADWALL	REMOVE PCC DRAINAGE APPON	DESCRIPTION	STATION	DRAINAGE UNIT	DRAINAGE SYSTEM NO.	DRAINAGE PLAN SHEET NO.					
D-2	1	a	EA		LF	LF	LF	LF	LF	EA	EA	EA	EA	CY	CY	CY	CY	LF	EA	LF	LF	LF	LF	LF	LF	SP	SP			a	1	D-2				
		b													14																		b			
		c	1																														c			
		d						116																										d		
		e											1																					e		
		f														10																		f		
		g															17		17															g		
		h																																	h	
D-3	2	a																		1							82				a	2	D-3			
		b																																b		
		c																																	c	
		d																																	d	
		e									1																								e	
		f																																	f	
		g																																	g	
		h																																	h	
D-4, D-5	3	a																													a	3	D-4, D-5			
		b																																	b	
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		k																																		k
		l																																		l
m																																m				
n																																n				
o																																o				
D-6, D-7	4	a																													a	4	D-6, D-7			
		b																																	b	
		c																																		c
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		g																																		g
		h																																		h
i																																i				
j																																j				
k																																k				
l																																l				
D-8	5	a																													a	5	D-8			
TOTAL			1	1	22	101	44	116	176	3	2	1	4	70	216	538	32	30.2	1	60.3	6	39.4	39	32	33	82			TOTAL							

DRAINAGE QUANTITIES
SCALE : AS SHOWN



PREPARED UNDER THE SUPERVISION OF :
Justin W. Harrington
REGISTERED CIVIL ENGINEER
DATE: 01/30/18

DESIGNED: DWH
DRAWN: SGM
CHECKED: DWH
DATE: 01/19/18
ROAD NUMBER: 090

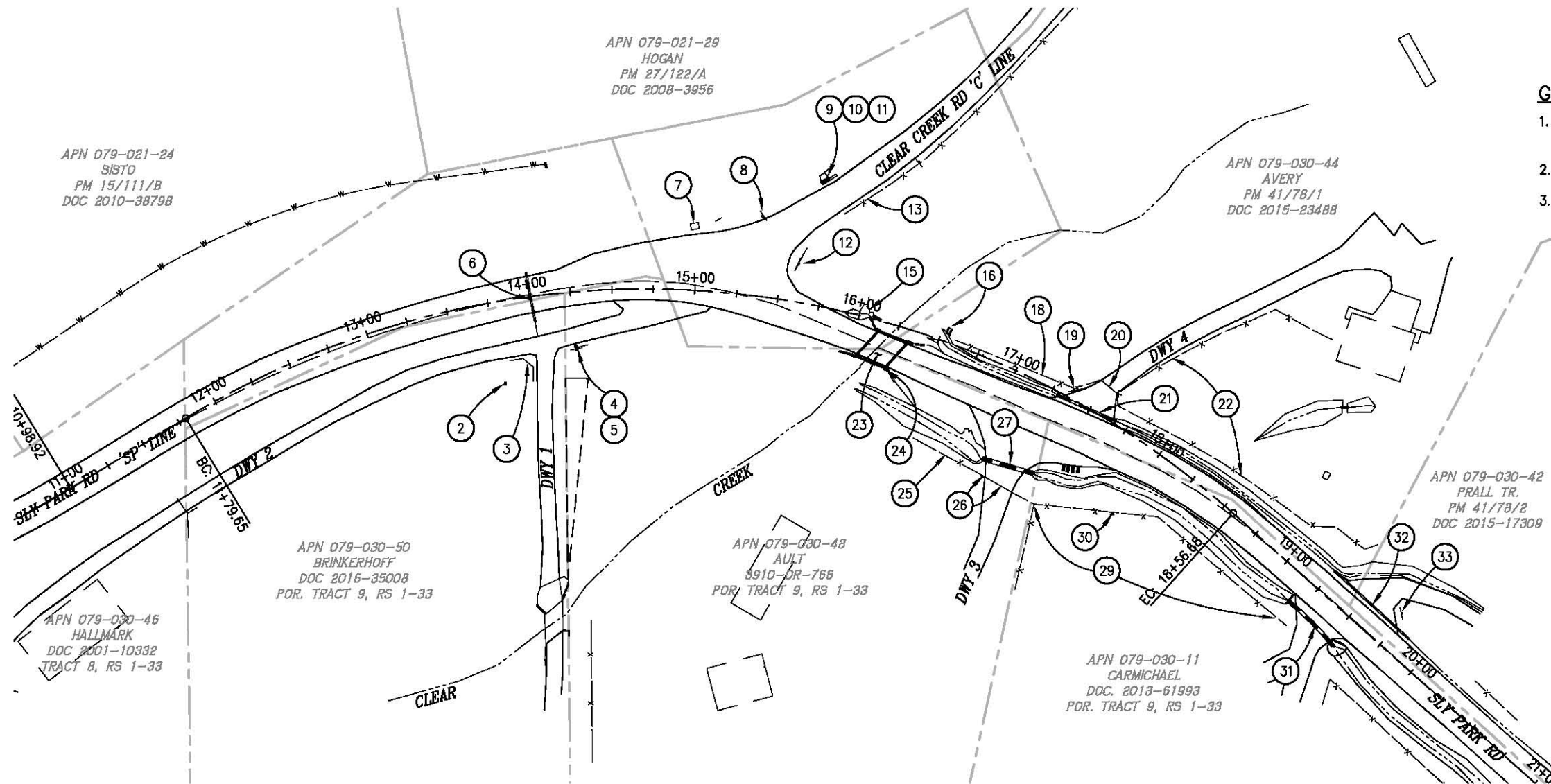


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
D-9
21 OF 49
W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD\Files\Sheets\DM-1.dwg Layout Tab: DM-1 Jan 18, 2018 - 1:03pm SMC\vey



GENERAL NOTES:

1. SEE SHEET CD-1 FOR ALIGNMENTS AND STATIONING.
2. SEE 'L' SHEETS FOR ROADWAY DEMOLITION.
3. SALVAGED MATERIAL NOT INDICATED TO BE RELOCATED WILL BE STORED NEATLY IN A LOCATION DESIGNATED BY THE ENGINEER.

CONSTRUCTION NOTES:

- | | | | |
|--|--|---|--|
| <p>① — NOT USED</p> <p>② — 'DWY 1' 2+90 LT — RAISE WELL HEAD TO GRADE, SEE DETAIL 1, SHT C-1.</p> <p>③ — 'DWY 1' 3+00 LT — REMOVE ±24 LF OF THREE RAIL WOOD FENCE.</p> <p>④ — 'DWY 1' 3+10 RT — REMOVE ±8 LF OF THREE RAIL WOOD FENCE.</p> <p>⑤ — 'DWY 1' 3+10 RT — REMOVE AND RELOCATE MAIL BOX AND ADDRESS SIGN. SEE 'SPD' SHTS.</p> <p>⑥ — CAP AND SLURRY BACKFILL STORM DRAIN PIPE, SEE SHT D-2.</p> <p>⑦ — 'SP' 14+98 LT — REMOVE 4 X 5 CONC PAD.</p> <p>⑧ — REMOVE AND RELOCATE R-1 STOP SIGN, SEE 'SPD' SHTS.</p> <p>⑨ — 'C' 10+69 LT — REMOVE WOOD RETAINING WALL, APPROX. 3H X 6L.</p> <p>⑩ — 'C' 10+69 LT — REMOVE CONC PAD.</p> | <p>⑪ — 'C' 10+69 LT — REMOVE AND RELOCATE MAIL BOX CLUSTER, 2 EA, SEE SHT L-3.</p> <p>⑫ — REMOVE AND RELOCATE STREET NAME SIGN, SEE 'SPD' SHTS.</p> <p>⑬ — 'C' 10+18± TO 'C' 11+88± — REMOVE ±70 L.F. OF WIRE FENCE.</p> <p>⑭ — NOT USED</p> <p>⑮ — 'SP' 16+07 LT — REMOVE CONC APRON, OMP AND STORM DRAIN PIPE, SEE SHT D-3.</p> <p>⑯ — 'SP' 16+54 LT — REMOVE 2.5 X 4 CONC FOUNDATION.</p> <p>⑰ — NOT USED</p> <p>⑱ — 'SP' 16+59± LT TO 'DWY 4' 1+18.3± LT — REMOVE ±95 L.F. OF THREE RAIL WOOD FENCE.</p> <p>⑲ — REMOVE AND RELOCATE ADDRESS SIGN, SEE 'SPD' SHTS FOR RELOCATION.</p> | <p>⑳ — REMOVE WOOD OVERHEAD DRIVEWAY ENTRANCE STRUCTURE. SALVAGE WOOD SIGN AND ADDRESS NUMBERS.</p> <p>㉑ — REMOVE STORM DRAIN PIPE, SEE SHT D-4.</p> <p>㉒ — 'DWY 4' 2+25± RT TO 'SP' 19+34± LT — REMOVE ±300 L.F. OF THREE RAIL WOOD FENCE.</p> <p>㉓ — REMOVE BRIDGE.</p> <p>㉔ — REMOVE AND SALVAGE MARKERS (TYPE P), 4 EA. SEE 'SPD' SHTS.</p> <p>㉕ — 'SP' 16+25± RT TO 'SP' 17+50± RT — REMOVE AND SALVAGE ± 100 L.F. OF CHAIN LINK FENCE.</p> <p>㉖ — 'SP' 17+15 RT — REMOVE AND SALVAGE ELECTRIC GATE AND ALL HARDWARE, INCLUDE GATE MOTOR.</p> <p>㉗ — REMOVE STORM DRAIN PIPE, SEE SHT D-6.</p> <p>㉘ — NOT USED</p> | <p>㉙ — 'SP' 17+32± RT TO 'SP' 19+25± RT — REMOVE AND SALVAGE 140± L.F. FENCING AND WOOD POSTS.</p> <p>㉚ — 'SP' 17+97 RT — REMOVE AND SALVAGE WATER SPIGOT, COORDINATE RELOCATION WITH ENGINEER AND PROPERTY OWNER.</p> <p>㉛ — REMOVE STORM DRAIN PIPE AND HEADWALL, SEE SHT D-7.</p> <p>㉜ — REMOVE STORM DRAIN PIPE, SEE SHT D-5.</p> <p>㉝ — REMOVE AND RELOCATE ADDRESS SIGN, AND MAIL BOXES. SEE 'SPD' SHTS.</p> |
|--|--|---|--|

DEMOLITION PLAN
SCALE : 1" = 40'



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 09D

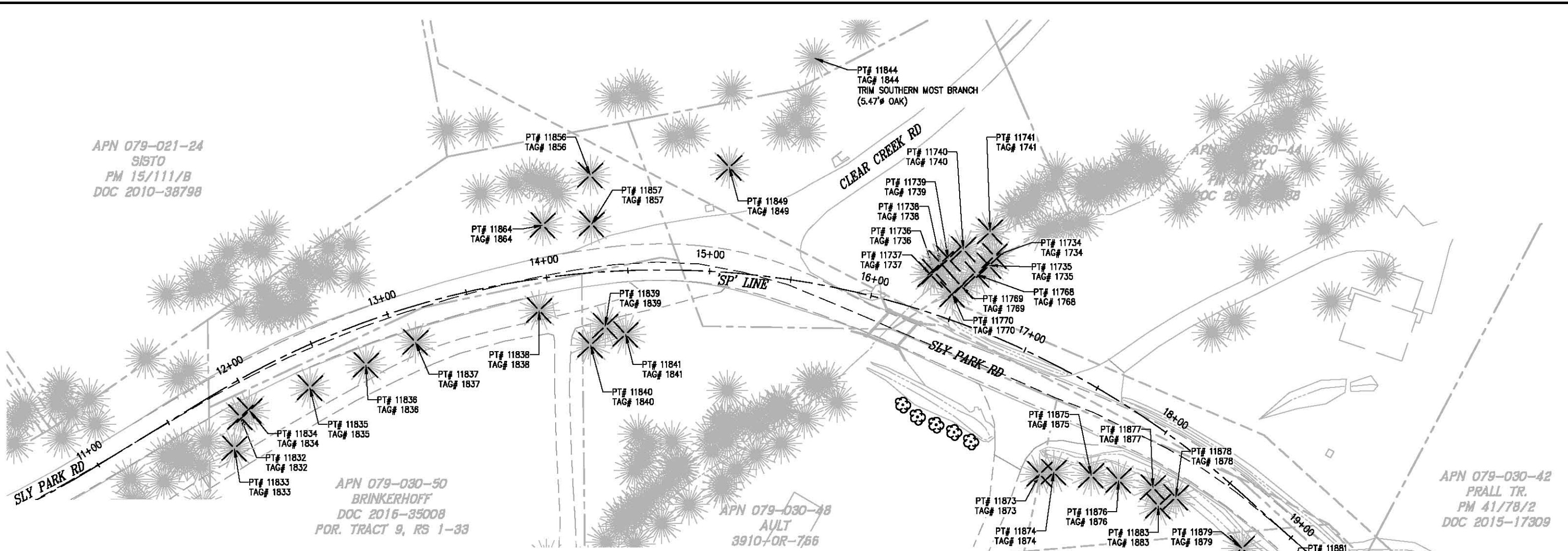


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
DM-1
 22 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets\TR-1.dwg Layout Tab: TR-1 Jan 18, 2018 1:04pm SMCvey



TREE REMOVAL TABLE				
POINT NUMBER	TAG NUMBER	STATION	OFFSET	DESCRIPTION
11734	1734	16+62.21	45.79' LT	ALDER-CLUSTER 3
11735	1735	16+61.20	39.15' LT	ALDER
11736	1736	16+32.62	24.45' LT	ALDER
11737	1737	16+30.94	2.27' LT	ALDER
11738	1738	16+34.53	30.79' LT	ALDER
11739	1739	16+37.94	34.91' LT	ALDER-FORKED 2
11740	1740	16+44.33	43.26' LT	ALDER-FORKED 2
11741	1741	16+55.21	58.82' LT	ALDER
11768	1768	16+56.56	31.43' LT	ALDER
11769	1769	16+49.99	21.72' LT	ALDER-CLUSTER 3
11770	1770	16+46.95	14.92' LT	ALDER
11832	1832	11+89.81	20.28' RT	OAK
11833	1833	11+76.28	34.79' RT	OAK
11834	1834	11+96.85	19.53' RT	OAK
11835	1835	12+37.84	24.16' RT	OAK
11836	1836	12+76.62	24.82' RT	OAK
11837	1837	13+11.31	21.57' RT	OAK-FORKED 2
11838	1838	13+92.62	19.36' RT	OAK
11839	1839	14+33.83	33.21' RT	OAK
11840	1840	14+23.19	44.07' RT	OAK
11841	1841	14+46.86	38.90' RT	OAK-FORKED 2

TREE REMOVAL TABLE				
POINT NUMBER	TAG NUMBER	STATION	OFFSET	DESCRIPTION
11849	1849	15+07.55	64.04' LT	OAK
11856	1856	14+31.29	59.46' LT	OAK
11857	1857	14+30.03	29.56' LT	OAK
11864	1864	14+01.82	31.97' LT	OAK
11873	1873	17+45.43	63.28' RT	CEDAR
11874	1874	17+53.27	57.91' RT	PINE
11875	1875	17+76.03	47.41' RT	PINE
11876	1876	17+93.05	40.56' RT	PINE
11877	1877	18+14.05	31.79' RT	PINE
11878	1878	18+29.60	27.90' RT	GRAY PINE
11879	1879	18+81.93	24.80' RT	OAK
11880	1880	19+06.55	24.18' RT	GRAY PINE
11881	1881	19+16.91	20.85' RT	CEDAR
11882	1882	19+23.96	25.50' RT	OAK
11883	1883	18+24.20	38.75' RT	ORNAMENTAL
11885	1885	19+60.68	22.21' RT	CEDAR
11886	1886	19+62.14	15.23' RT	CEDAR
11887	1887	19+66.80	14.48' RT	CEDAR

LEGEND:
 — TREE TO BE REMOVED
 — TREE TO BE PLANTED (5)

TREE REMOVAL PLAN
SCALE : 1" = 40'



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090

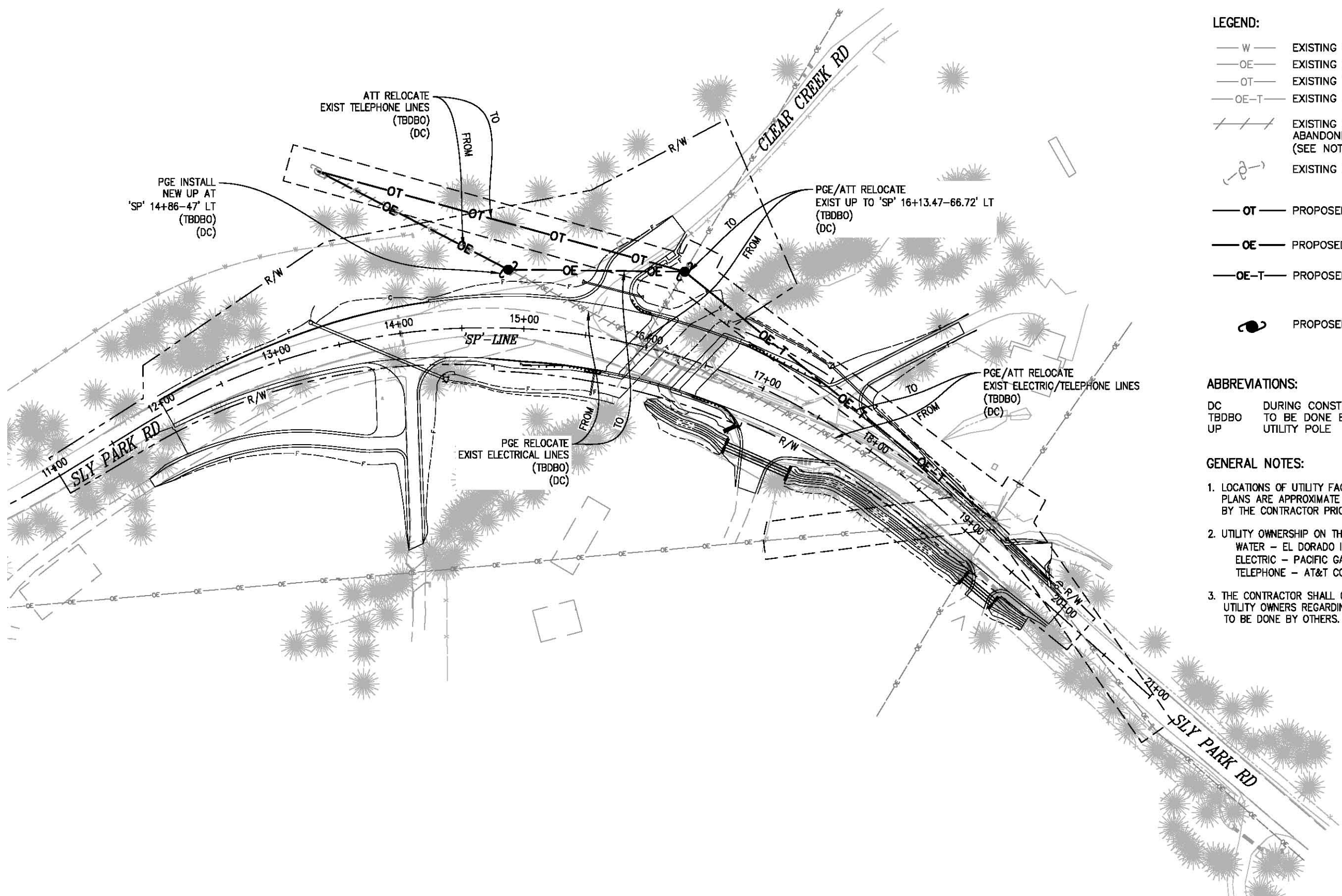


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
TR-1
 23 OF 49
 W.O. No. **77115**

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 Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets\U-1.dwg Layout Tab: U-1 Jan 18, 2018 -- 1:05pm SMcVey



- LEGEND:**
- W — EXISTING WATER
 - OE — EXISTING ELECTRIC (OVERHEAD)
 - OT — EXISTING TELEPHONE (OVERHEAD)
 - OE-T — EXISTING ELECTRIC & TELEPHONE (OVERHEAD)
 - --- EXISTING UTILITY TO BE ABANDONED OR REMOVED (SEE NOTE ON PLANS)
 - ⊙ EXISTING UTILITY POLE & GUY ANCHORS
 - OT — PROPOSED TELEPHONE (OVERHEAD)
 - OE — PROPOSED ELECTRIC (OVERHEAD)
 - OE-T — PROPOSED ELECTRIC & TELEPHONE (OVERHEAD)
 - ⊙ PROPOSED UTILITY POLE

- ABBREVIATIONS:**
- DC DURING CONSTRUCTION
 - TBDBO TO BE DONE BY OTHERS
 - UP UTILITY POLE

- GENERAL NOTES:**
1. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 2. UTILITY OWNERSHIP ON THIS PROJECT:
 WATER - EL DORADO IRRIGATION DISTRICT (EID)
 ELECTRIC - PACIFIC GAS AND ELECTRIC (PG&E)
 TELEPHONE - AT&T COMMUNICATIONS (AT&T)
 3. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNERS REGARDING RELOCATIONS TO BE DONE BY OTHERS.



**UTILITY RELOCATION PLAN
SCALE : 1" = 40'**



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 09D



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT**

SHEET
U-1
 24 OF 49
 W.O. No. 77115

GENERAL STAGE CONSTRUCTION NOTES:

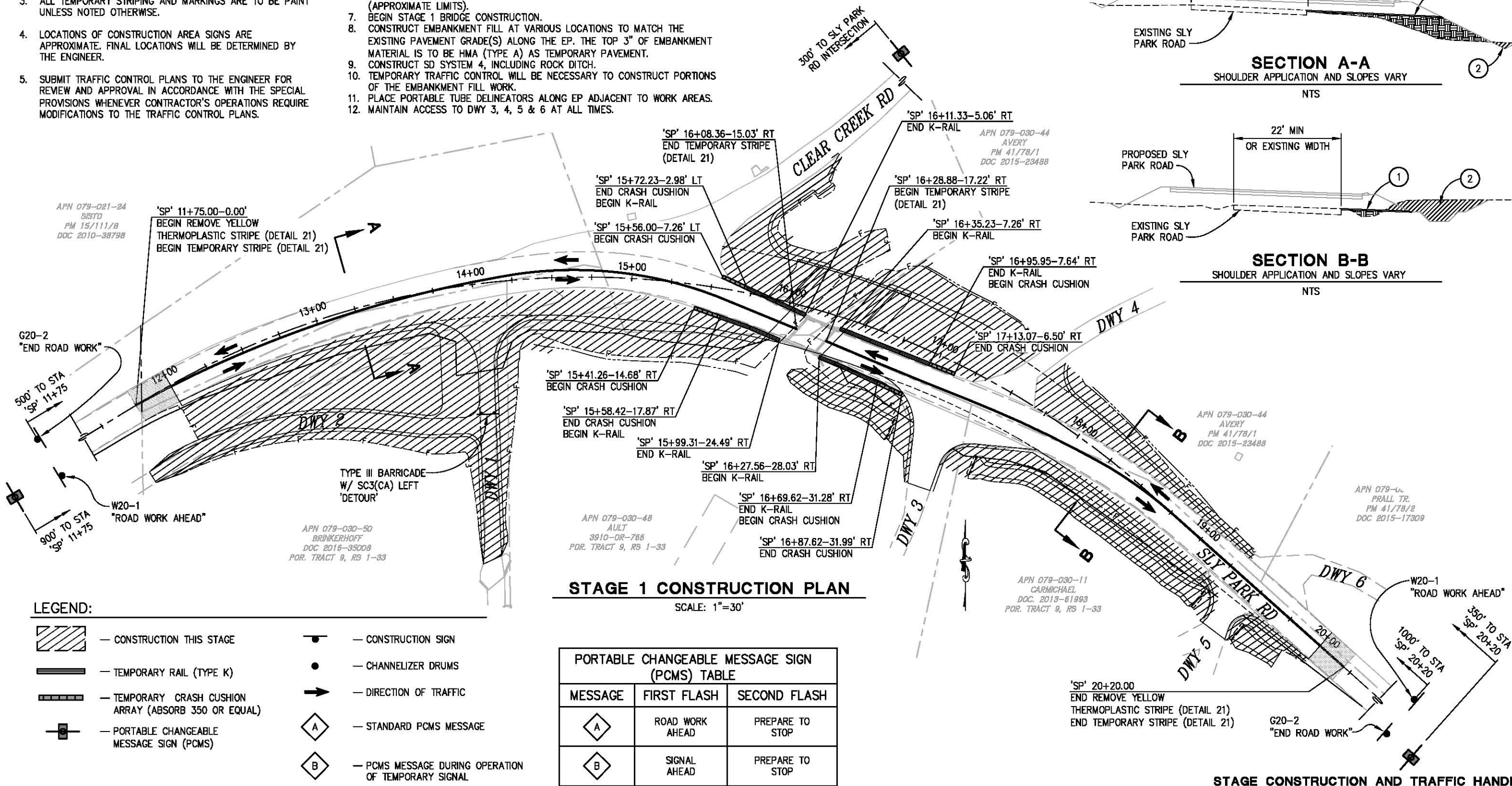
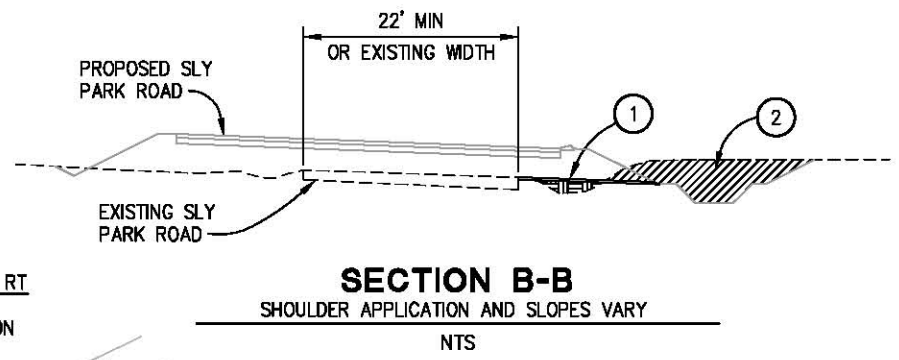
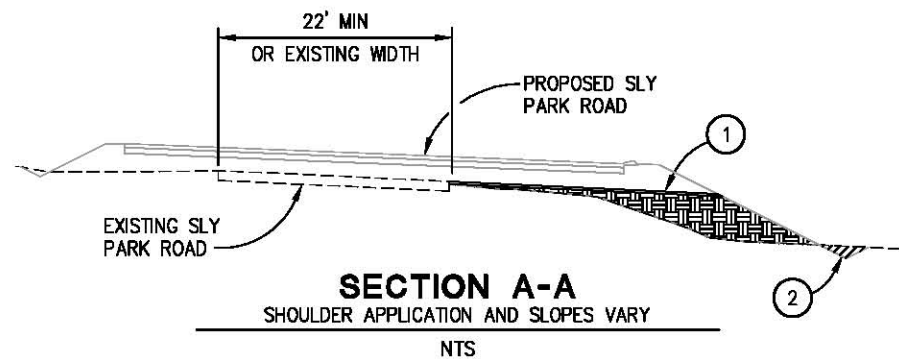
- REFER TO THE SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC REQUIREMENTS WITHIN THE WORK AREA.
- REMOVE ALL EXISTING STRIPING, MARKINGS, AND SIGNAGE THAT CONFLICT WITH THE TEMPORARY STRIPING TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING TEMPORARY STRIPING.
- ALL TEMPORARY STRIPING AND MARKINGS ARE TO BE PAINT UNLESS NOTED OTHERWISE.
- LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- SUBMIT TRAFFIC CONTROL PLANS TO THE ENGINEER FOR REVIEW AND APPROVAL IN ACCORDANCE WITH THE SPECIAL PROVISIONS WHENEVER CONTRACTOR'S OPERATIONS REQUIRE MODIFICATIONS TO THE TRAFFIC CONTROL PLANS.

STAGE 1 CONSTRUCTION NOTES:

- CONSTRUCT DRIVEWAY 2.
- PLACE TEMPORARY BARRICADE AT DRIVEWAY 1 FOR DETOUR USING DRIVEWAY 2.
- REMOVE YELLOW THERMOPLASTIC STRIPE (HAZARDOUS WASTE).
- PLACE TEMPORARY STRIPE (DETAIL 21).
- PLACE K-RAIL AS SHOWN.
- TEMPORARY SHORING MAY BE NECESSARY TO RETAIN EXISTING ROADWAY FROM 'SP' 15+93 TO 'SP' 16+13 AND FROM 'SP' 16+33 TO 'SP' 16+53 (APPROXIMATE LIMITS).
- BEGIN STAGE 1 BRIDGE CONSTRUCTION.
- CONSTRUCT EMBANKMENT FILL AT VARIOUS LOCATIONS TO MATCH THE EXISTING PAVEMENT GRADE(S) ALONG THE EP. THE TOP 3" OF EMBANKMENT MATERIAL IS TO BE HMA (TYPE A) AS TEMPORARY PAVEMENT.
- CONSTRUCT SD SYSTEM 4, INCLUDING ROCK DITCH.
- TEMPORARY TRAFFIC CONTROL WILL BE NECESSARY TO CONSTRUCT PORTIONS OF THE EMBANKMENT FILL WORK.
- PLACE PORTABLE TUBE DELINEATORS ALONG EP ADJACENT TO WORK AREAS.
- MAINTAIN ACCESS TO DWY 3, 4, 5 & 6 AT ALL TIMES.

SECTION NOTES:

- PLACE FILL FROM EXISTING EDGE OF PAVEMENT GRADE AND EXTEND EXISTING CROSS SLOPE TO CATCH POINT OF PROPOSED FILL SLOPE. TOP 3" OF FILL SHALL BE HMA.
- EXCAVATE TOE OF SLOPE DITCH AND ROCK LINED DITCH WHERE OCCURRING.



LEGEND:

- CONSTRUCTION THIS STAGE
- TEMPORARY RAIL (TYPE K)
- TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- CONSTRUCTION SIGN
- CHANNELIZER DRUMS
- DIRECTION OF TRAFFIC
- STANDARD PCMS MESSAGE
- PCMS MESSAGE DURING OPERATION OF TEMPORARY SIGNAL

STAGE 1 CONSTRUCTION PLAN

SCALE: 1"=30'

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TABLE		
MESSAGE	FIRST FLASH	SECOND FLASH
	ROAD WORK AHEAD	PREPARE TO STOP
	SIGNAL AHEAD	PREPARE TO STOP

STAGE CONSTRUCTION AND TRAFFIC HANDLING
SCALE: AS SHOWN

ORIGINAL SCALE IS IN INCHES
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Layout Tab: SC-1
Jan 19, 2018 - 10:51am, SMC\Key

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
REGISTERED CIVIL ENGINEER
DATE: 01/30/18

DESIGNED: DWH
DRAWN: SGM
CHECKED: DWH
DATE: 01/18/18
ROAD NUMBER: 090



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
SC-1
25 OF 49
No. 77115

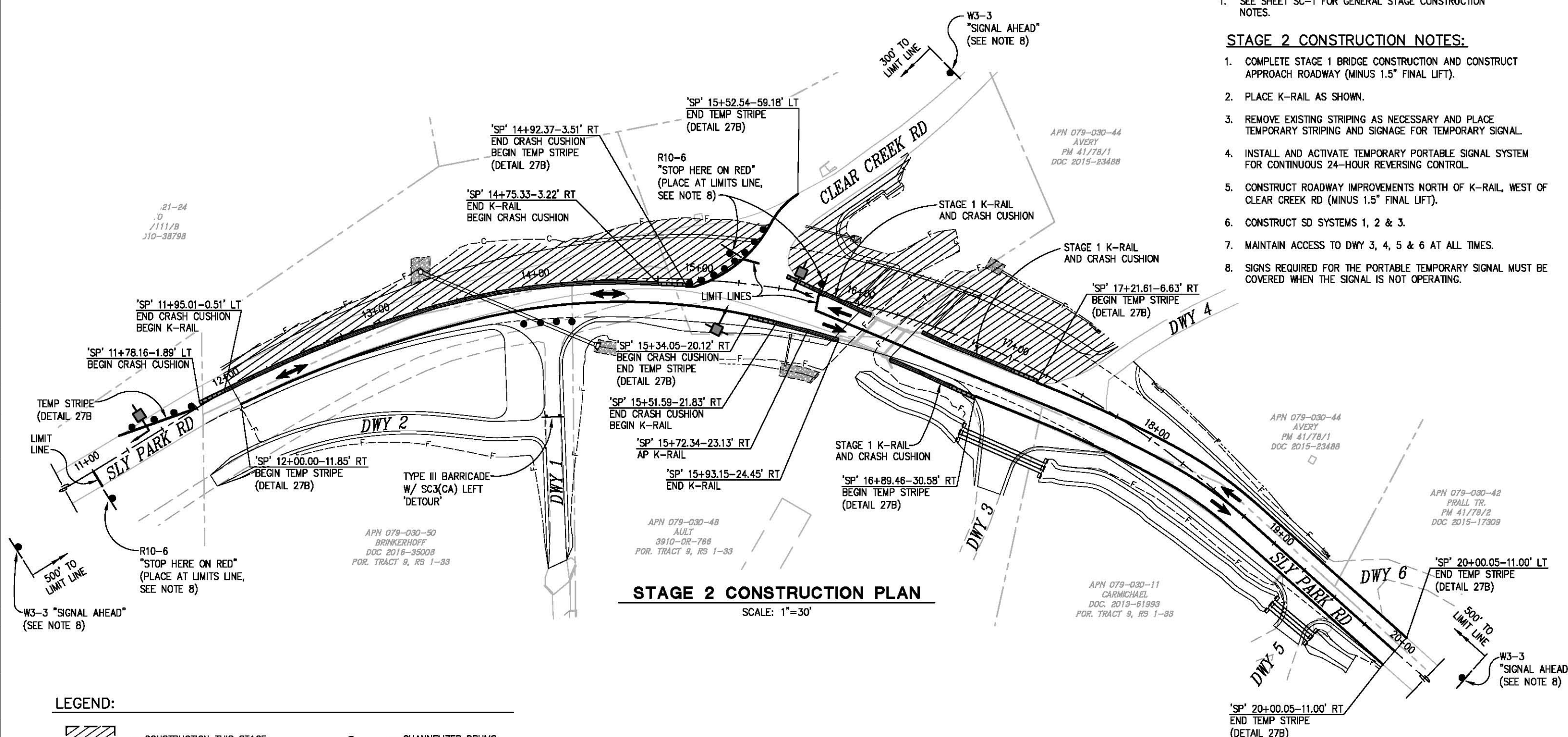
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 FOR REDUCED PLANS

GENERAL STAGE CONSTRUCTION NOTES:

- SEE SHEET SC-1 FOR GENERAL STAGE CONSTRUCTION NOTES.

STAGE 2 CONSTRUCTION NOTES:

- COMPLETE STAGE 1 BRIDGE CONSTRUCTION AND CONSTRUCT APPROACH ROADWAY (MINUS 1.5" FINAL LIFT).
- PLACE K-RAIL AS SHOWN.
- REMOVE EXISTING STRIPING AS NECESSARY AND PLACE TEMPORARY STRIPING AND SIGNAGE FOR TEMPORARY SIGNAL.
- INSTALL AND ACTIVATE TEMPORARY PORTABLE SIGNAL SYSTEM FOR CONTINUOUS 24-HOUR REVERSING CONTROL.
- CONSTRUCT ROADWAY IMPROVEMENTS NORTH OF K-RAIL, WEST OF CLEAR CREEK RD (MINUS 1.5" FINAL LIFT).
- CONSTRUCT SD SYSTEMS 1, 2 & 3.
- MAINTAIN ACCESS TO DWY 3, 4, 5 & 6 AT ALL TIMES.
- SIGNS REQUIRED FOR THE PORTABLE TEMPORARY SIGNAL MUST BE COVERED WHEN THE SIGNAL IS NOT OPERATING.



STAGE 2 CONSTRUCTION PLAN
 SCALE: 1"=30'

LEGEND:

- CONSTRUCTION THIS STAGE
- TEMPORARY RAIL (TYPE K)
- TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
- CONSTRUCTION SIGN
- CHANNELIZER DRUMS
- DIRECTION OF TRAFFIC
- PORTABLE TEMPORARY SIGNAL
- PORTABLE TEMPORARY SIGNAL DRIVEWAY ASSISTANCE DEVICE

STAGE CONSTRUCTION AND TRAFFIC HANDLING
 SCALE: AS SHOWN



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 09D



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
SC-2
 26 OF 49
 W.D. No. 77115

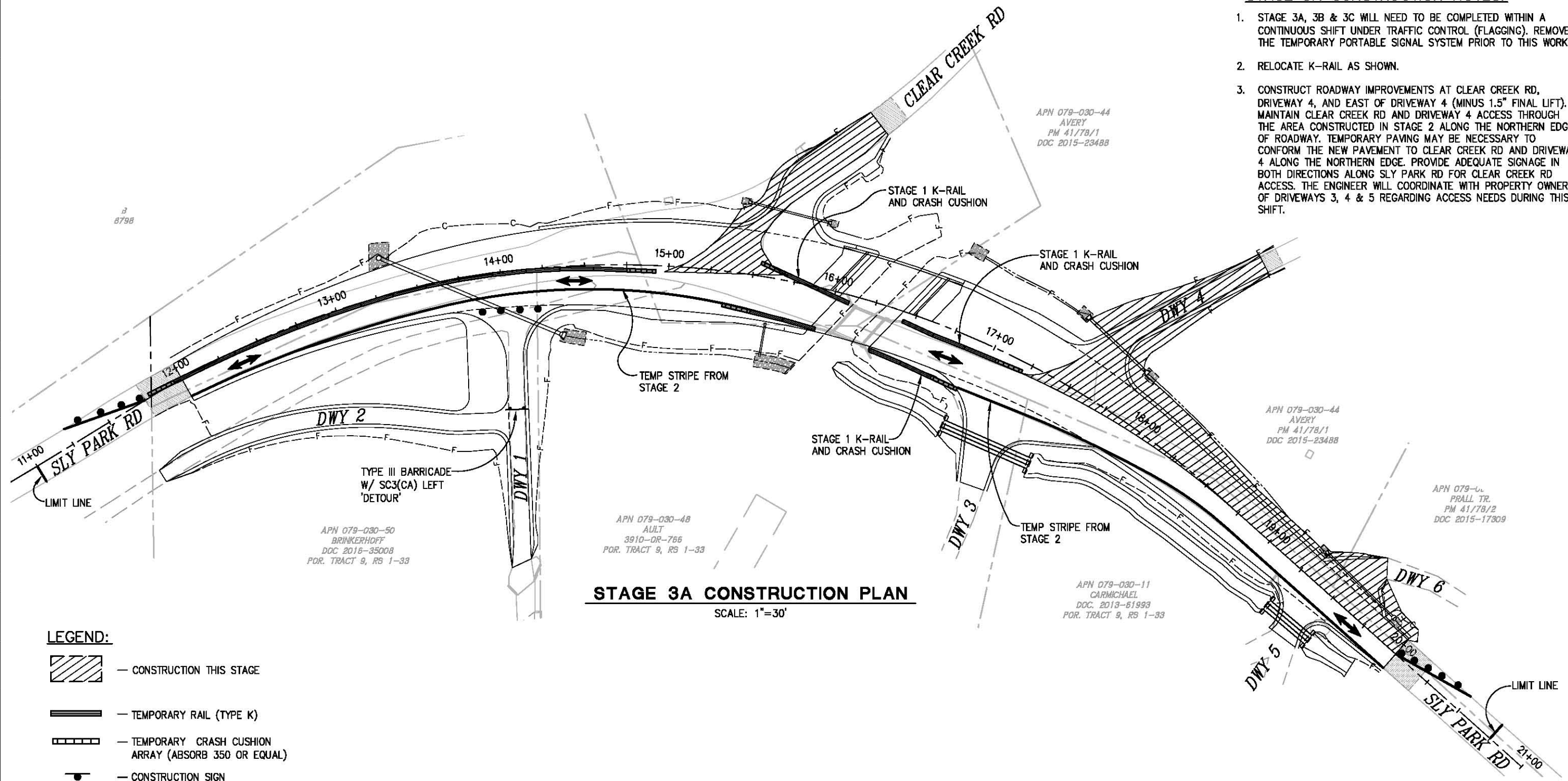
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 FOR REDUCED PLANS

GENERAL STAGE CONSTRUCTION NOTES:

1. SEE SHEET SC-1 FOR GENERAL STAGE CONSTRUCTION NOTES.

STAGE 3A CONSTRUCTION NOTES:

1. STAGE 3A, 3B & 3C WILL NEED TO BE COMPLETED WITHIN A CONTINUOUS SHIFT UNDER TRAFFIC CONTROL (FLAGGING). REMOVE THE TEMPORARY PORTABLE SIGNAL SYSTEM PRIOR TO THIS WORK.
2. RELOCATE K-RAIL AS SHOWN.
3. CONSTRUCT ROADWAY IMPROVEMENTS AT CLEAR CREEK RD, DRIVEWAY 4, AND EAST OF DRIVEWAY 4 (MINUS 1.5" FINAL LIFT). MAINTAIN CLEAR CREEK RD AND DRIVEWAY 4 ACCESS THROUGH THE AREA CONSTRUCTED IN STAGE 2 ALONG THE NORTHERN EDGE OF ROADWAY. TEMPORARY PAVING MAY BE NECESSARY TO CONFORM THE NEW PAVEMENT TO CLEAR CREEK RD AND DRIVEWAY 4 ALONG THE NORTHERN EDGE. PROVIDE ADEQUATE SIGNAGE IN BOTH DIRECTIONS ALONG SLY PARK RD FOR CLEAR CREEK RD ACCESS. THE ENGINEER WILL COORDINATE WITH PROPERTY OWNERS OF DRIVEWAYS 3, 4 & 5 REGARDING ACCESS NEEDS DURING THIS SHIFT.



STAGE 3A CONSTRUCTION PLAN
 SCALE: 1"=30'

- LEGEND:**
- CONSTRUCTION THIS STAGE
 - TEMPORARY RAIL (TYPE K)
 - TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
 - CONSTRUCTION SIGN
 - CHANNELIZER DRUMS
 - DIRECTION OF TRAFFIC

STAGE CONSTRUCTION AND TRAFFIC HANDLING
 SCALE: AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 09D



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
SC-3
 27 OF 49
 W.O. No. 77115

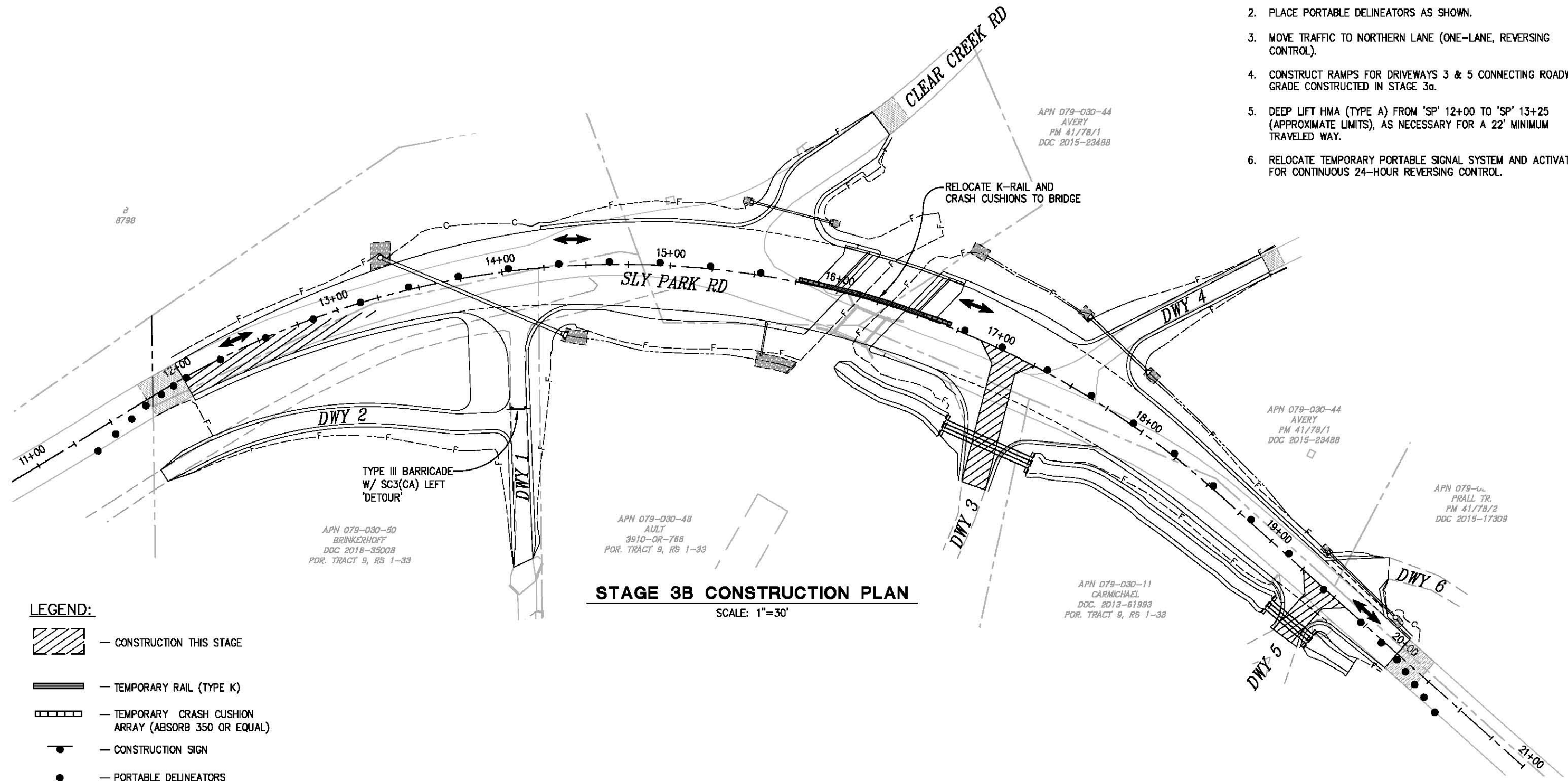
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GENERAL STAGE CONSTRUCTION NOTES:

1. SEE SHEET SC-1 FOR GENERAL STAGE CONSTRUCTION NOTES.

STAGE 3B CONSTRUCTION NOTES:

1. RELOCATE K-RAIL AS SHOWN.
2. PLACE PORTABLE DELINEATORS AS SHOWN.
3. MOVE TRAFFIC TO NORTHERN LANE (ONE-LANE, REVERSING CONTROL).
4. CONSTRUCT RAMPS FOR DRIVEWAYS 3 & 5 CONNECTING ROADWAY GRADE CONSTRUCTED IN STAGE 3a.
5. DEEP LIFT HMA (TYPE A) FROM 'SP' 12+00 TO 'SP' 13+25 (APPROXIMATE LIMITS), AS NECESSARY FOR A 22' MINIMUM TRAVELED WAY.
6. RELOCATE TEMPORARY PORTABLE SIGNAL SYSTEM AND ACTIVATE FOR CONTINUOUS 24-HOUR REVERSING CONTROL.



STAGE 3B CONSTRUCTION PLAN

SCALE: 1"=30'

- LEGEND:**
- CONSTRUCTION THIS STAGE
 - TEMPORARY RAIL (TYPE K)
 - TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
 - CONSTRUCTION SIGN
 - PORTABLE DELINEATORS
 - DIRECTION OF TRAFFIC

STAGE CONSTRUCTION AND TRAFFIC HANDLING SCALE: AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090



**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

**SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT**

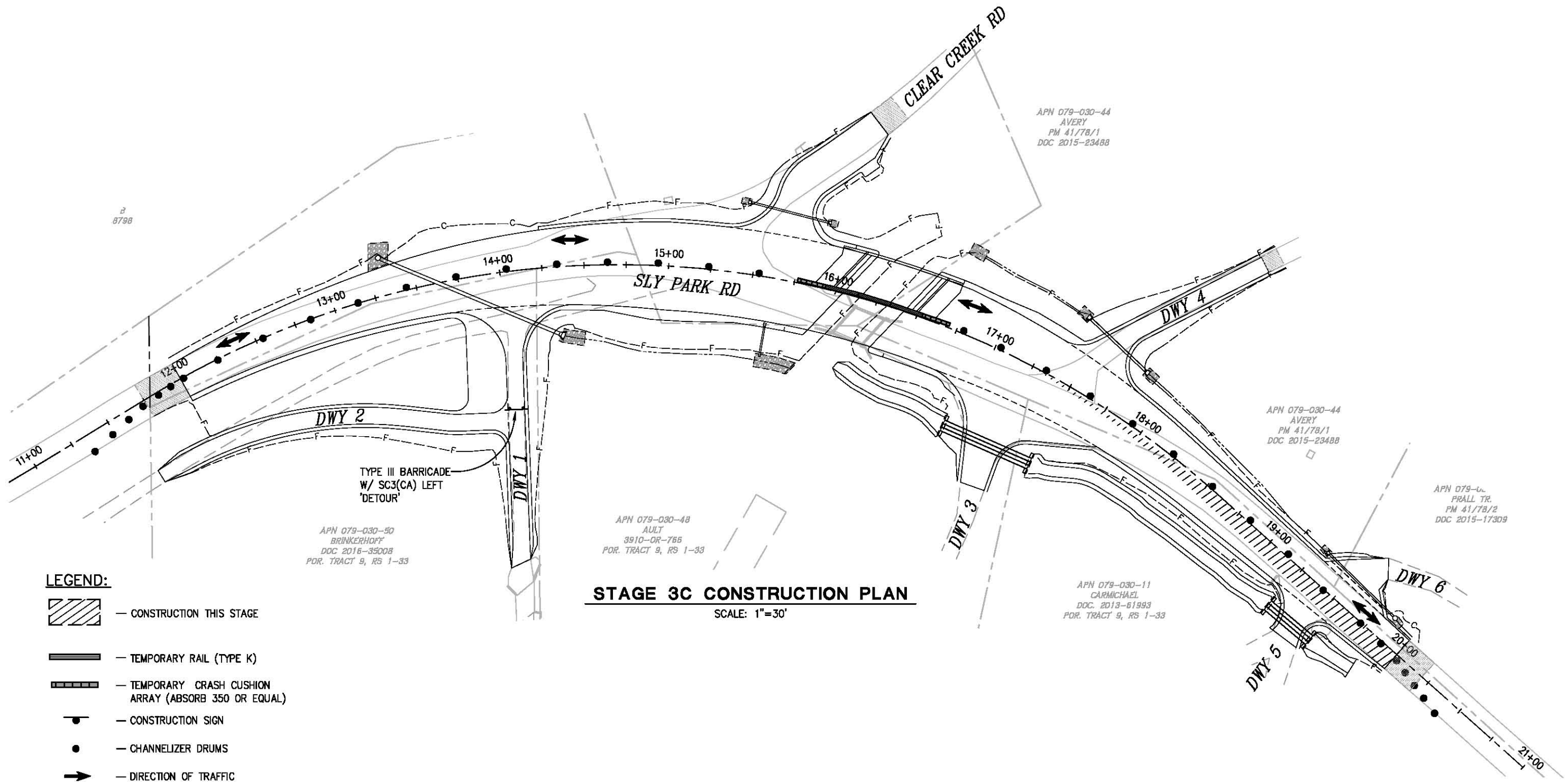
SHEET
SC-4
 28 OF 49
 W.O. No. 77115

GENERAL STAGE CONSTRUCTION NOTES:







1. SEE SHEET SC-1 FOR GENERAL STAGE CONSTRUCTION NOTES.

STAGE 3C CONSTRUCTION NOTES:

1. CONSTRUCT ROADWAY IMPROVEMENTS FROM 'SP' 17+25 TO 'SP' 20+00 (APPROXIMATE LIMITS), AS NECESSARY FOR A 22' MINIMUM TRAVELED WAY.
2. REMOVE EXISTING STRIPING AS NECESSARY AND PLACE TEMPORARY STRIPING FOR 2-WAY TRAFFIC. (REFER TO STAGE 4 STRIPING).



LEGEND:

-  - CONSTRUCTION THIS STAGE
-  - TEMPORARY RAIL (TYPE K)
-  - TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
-  - CONSTRUCTION SIGN
-  - CHANNELIZER DRUMS
-  - DIRECTION OF TRAFFIC

STAGE 3C CONSTRUCTION PLAN

SCALE: 1"=30'

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR_CREEK BRIDGE\CADD Files\Sheets\SC-Sheets.dwg Layout Tab: SC-5 - Jan 18, 2018 - 12:03pm SMCVey

STAGE CONSTRUCTION AND TRAFFIC HANDLING SCALE: AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrison
REGISTERED CIVIL ENGINEER
DATE: 01/30/18

DESIGNED: DWH
DRAWN: SGM
CHECKED: DWH
DATE: 01/18/18
ROAD NUMBER: 09D



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT**

SHEET
SC-5
29 OF 49
W.O. No. **77115**

GENERAL STAGE CONSTRUCTION NOTES:

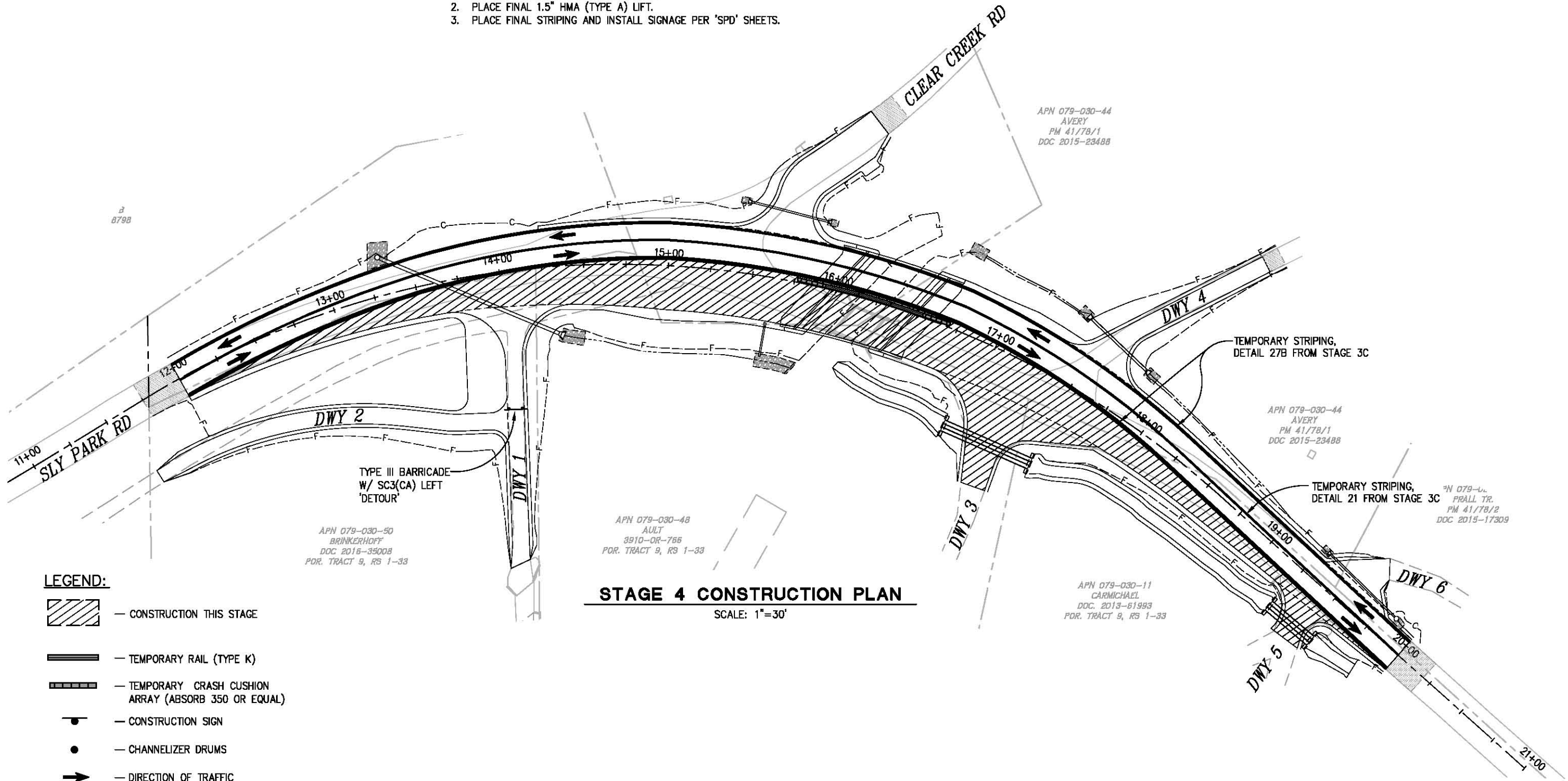
1. SEE SHEET SC-1 FOR GENERAL STAGE CONSTRUCTION NOTES.

STAGE 4 CONSTRUCTION NOTES:

1. REMOVE EXISTING BRIDGE AND CONSTRUCT STAGE 2 OF THE BRIDGE.
2. COMPLETE STAGE 2 BRIDGE CONSTRUCTION AND CONSTRUCT APPROACH ROADWAY (MINUS 1.5" FINAL LIFT).
3. CONSTRUCT REMAINING ROADWAY IMPROVEMENTS WEST OF THE BRIDGE AND AT DRIVEWAY 1.
4. CONSTRUCT SD SYSTEM 5.

UPON COMPLETION OF THE ABOVE LISTED ITEMS AND AT THE DIRECTION OF THE ENGINEER THE FOLLOWING ITEMS WILL BE COMPLETED.

1. REMOVE K-RAIL AND CRASH CUSHIONS.
2. PLACE FINAL 1.5" HMA (TYPE A) LIFT.
3. PLACE FINAL STRIPING AND INSTALL SIGNAGE PER 'SPD' SHEETS.



LEGEND:

- CONSTRUCTION THIS STAGE
- TEMPORARY RAIL (TYPE K)
- TEMPORARY CRASH CUSHION ARRAY (ABSORB 350 OR EQUAL)
- CONSTRUCTION SIGN
- CHANNELIZER DRUMS
- DIRECTION OF TRAFFIC

STAGE 4 CONSTRUCTION PLAN

SCALE: 1"=30'

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D\Projects\77115_SLY PARK-CLEAR_CREEK BRIDGE\CADD Files\Streets\SC-6-Sheets.dwg Layout Tab: SC-6 - Jan 18, 2018 - 12:04pm SMC\vey

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090

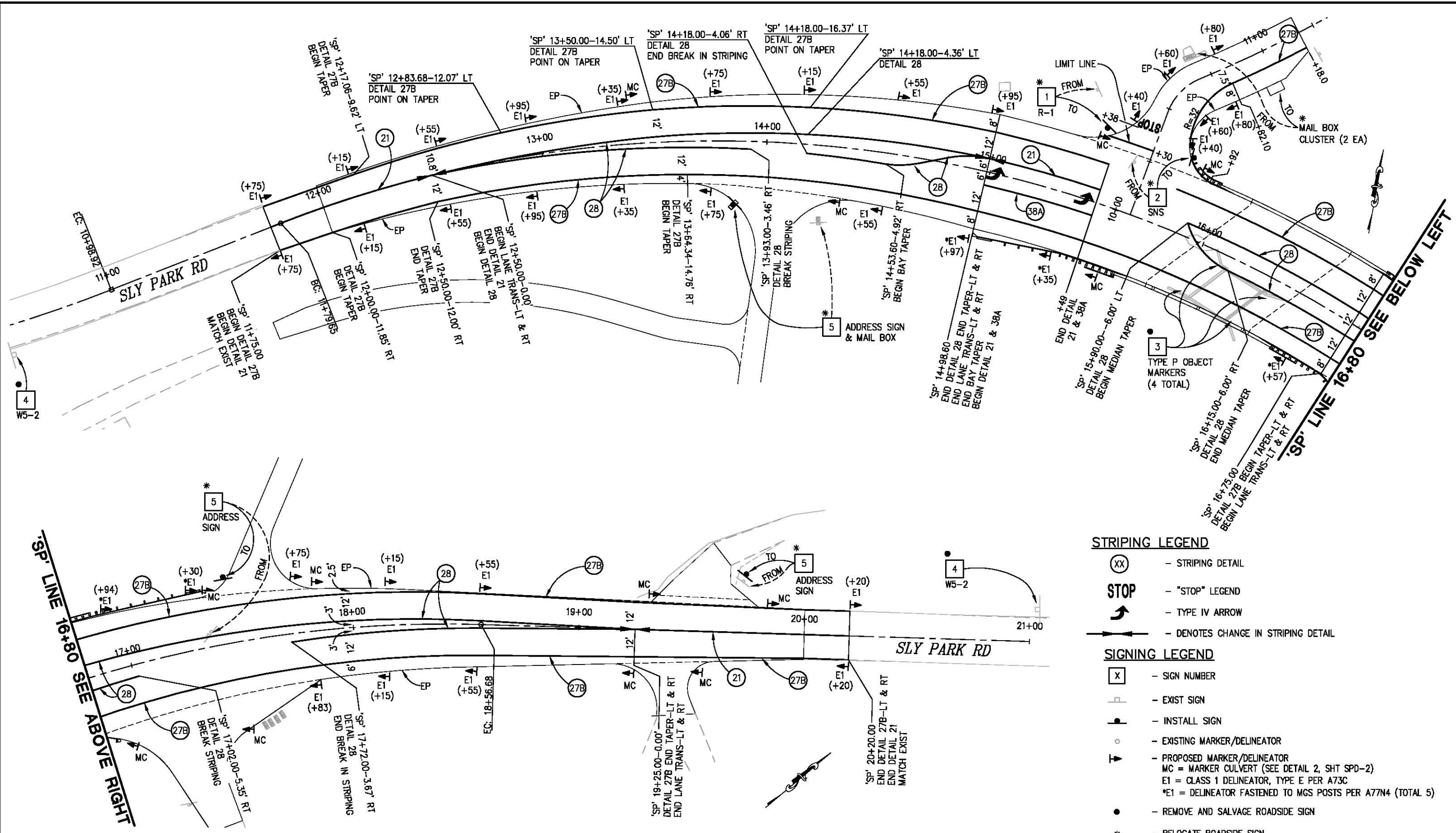


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT

SHEET
SC-6
 30 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Streets\SPD-Streets.dwg Layout Tab: SPD-1 Jan 18, 2018 - 1:08pm SMC\key
 FOR REDUCED PLANS



- STRIPING LEGEND**
- (XX) - STRIPING DETAIL
 - STOP - "STOP" LEGEND
 - ↩ - TYPE IV ARROW
 - ↔ - DENOTES CHANGE IN STRIPING DETAIL
- SIGNING LEGEND**
- [X] - SIGN NUMBER
 - - EXIST SIGN
 - - INSTALL SIGN
 - - EXISTING MARKER/DELINEATOR
 - ▽ - PROPOSED MARKER/DELINEATOR
 - MC = MARKER CULVERT (SEE DETAIL 2, SHT SPD-2)
 - E1 = CLASS 1 DELINEATOR, TYPE E PER A73C
 - *E1 = DELINEATOR FASTENED TO MGS POSTS PER A77N4 (TOTAL 5)
 - - REMOVE AND SALVAGE ROADSIDE SIGN
 - * - RELOCATE ROADSIDE SIGN

SIGNING AND PAVEMENT DELINEATION
 SCALE: 1" = 20'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
SPD-1
 31 OF 49
 W.O. No. 77115

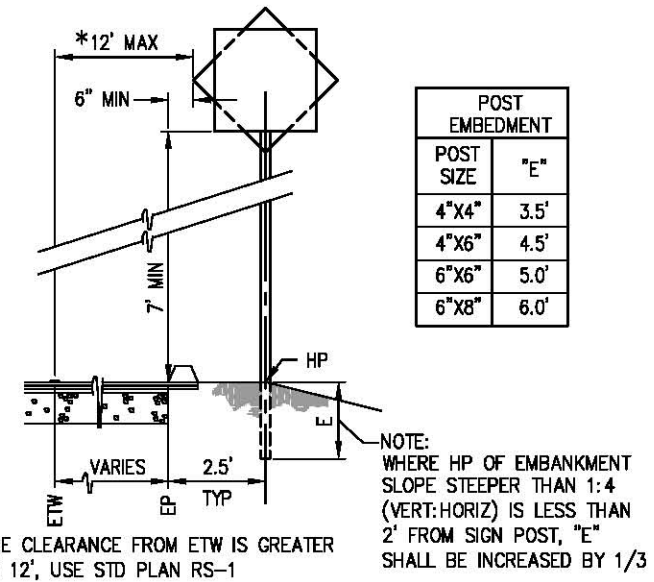
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SIGN QUANTITIES

SIGN NO.	SIGN	CALIFORNIA MUTCD CODE	PANEL SIZE (INCHES)	POST SIZE & LENGTH		ROADSIDE SIGNS			EXISTING LOCATION	PROPOSED LOCATION (APPROXIMATELY)	REMARKS
				3.5" X 3.5"	3.5" X 5.5"	ONE POST EA	RELOCATE EA	REMOVE EA			
				1	"STOP" SIGN	R1		15			
2	STREET NAME SIGN						1		'C' 10+22.6 LT		
3	TYPE 'P' MARKER							4	EXISTING BRIDGE		
4	"NARROW BRIDGE"	WS-2						2	'SP' ±10+00 RT 'SP' ±21+50 LT		
5	ADDRESS SIGN						3		'SP' 14+26 RT	'SP' 13+86 RT	DWY 1
									'SP' 17+37 LT	'SP' 17+47 LT	DWY 4
									'SP' 19+22 LT	'SP' 19+72 LT	DWY 6
TOTAL								5	6		

DELINEATORS

LOCATION	QUANTITY
'SP' 11+75 LT & RT	2
'SP' 12+15 LT & RT	2
'SP' 12+55 LT & RT	2
'SP' 12+95 LT & RT	2
'SP' 13+35 LT & RT	2
'SP' 13+75 LT & RT	2
'SP' 14+15 LT	1
'SP' 14+55 LT & RT	2
'SP' 14+95 LT	1
'SP' 14+97 RT	1
'SP' 15+35 RT	1
'SP' 16+57 RT	1
'SP' 16+94 LT	1
'SP' 17+30 LT	1
'SP' 17+75 LT	1
'SP' 17+83 RT	1
'SP' 18+15 LT & RT	2
'SP' 18+55 LT & RT	2
'SP' 20+20 LT & RT	2
'C' 10+40 LT & RT	2
'C' 10+60 LT & RT	2
'C' 10+80 LT & RT	2
TOTAL	35



1 SIGN LOCATION DETAIL
NTS
SEE ALSO STD PLAN RS-2

THERMOPLASTIC STRIPING

STANDARD PLAN NO.	FROM	TO	SPRAYABLE THERMOPLASTIC		REMARKS
			WHITE FT	YELLOW FT	
DETAIL 21	'SP' 11+75	'SP' 12+50		150	
	'SP' 19+25	'SP' 20+20		190	
	'SP' 14+98.6 LT	'SP' 15+49 LT		102	
DETAIL 27B	'SP' 11+75 LT	'SP' 15+49 LT	384		
	'SP' 11+75 RT	'SP' 20+20 RT	825		
	'SP' 15+80 LT	'SP' 20+20 LT	450		
	'SP' 15+92 LT	'C' 11+17.90 RT	98		
DETAIL 28	'SP' 12+50	'SP' 14+98.80		950	
	'SP' 15+80	'SP' 19+25		1210	
DETAIL 38A	'SP' 14+98.60 RT	'SP' 15+49 RT	50		
SUBTOTAL			1807	2602	
TOTAL			4409		

MARKER (CULVERT)

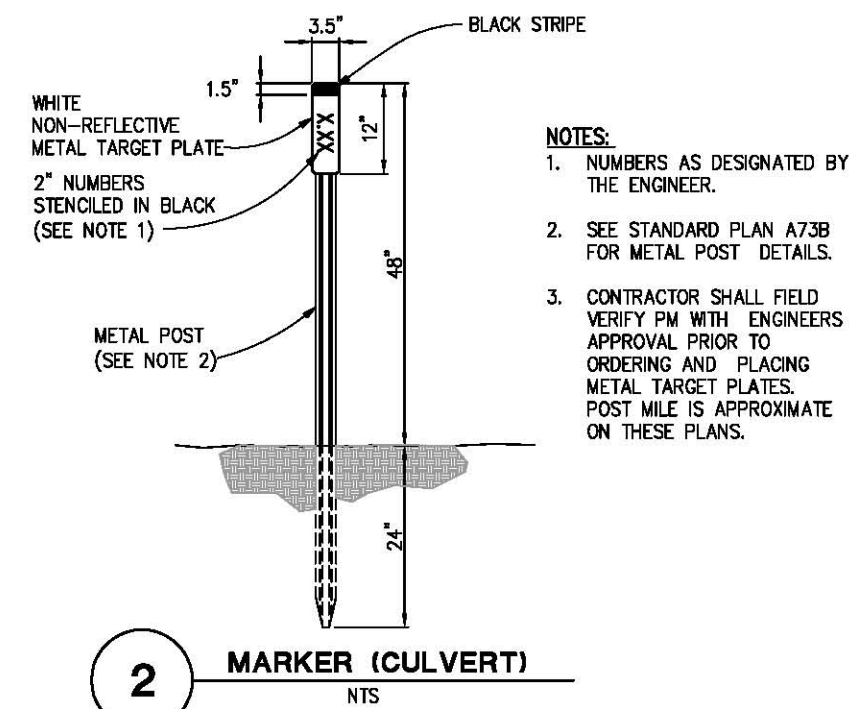
NUMERAL ON TARGET PLATE	FACING TRAFFIC EA		FACING TRAFFIC EA		LOCATION
	E	W	S	N	
	1.05	1			
1.07		1			'SP' 14+35 RT
1.09	1				'SP' 15+41 LT
1.09		1			'SP' 15+58 RT
1.10	1				'SP' 15+87 LT
1.12		1			'SP' 16+93 RT
1.12	1				'SP' 17+37 LT
1.13		1			'SP' 17+49 RT
1.13	1				'SP' 17+82 LT
1.16		1			'SP' 19+25 RT
1.16	1				'SP' 19+35 LT
1.17		1			'SP' 19+55 RT
1.17	1				'SP' 19+77 LT
SUBTOTAL		7	6		
TOTAL		13			

PAVEMENT MARKING

DESCRIPTION	THERMOPLASTIC FT2	DETAIL	STANDARD DRAWING	REMARKS
LEFT TURN ARROWS	30	TYPE IV (L)	A24A	2 @ 15 FT2
'STOP' LEGEND	22	-	A24D	1 @ 22 FT2
LIMIT/CROSSWALK LINE	21	-	A24E	21 @ 1 WIDE
TOTAL				

CONSTRUCTION NOTES

- SIGNING AND PAVEMENT DELINEATION PLANS ARE ACCURATE FOR SIGNING AND PAVEMENT DELINEATION ONLY. SEE "SC" SHEETS FOR CONSTRUCTION AREA SIGNS.
- ALL STRIPING SHALL BE SPRAYED THERMOPLASTIC AND ALL PAVEMENT MARKINGS AND LIMIT LINES SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED.
- ALL PAVEMENT MARKINGS AT INTERSECTIONS SHALL BE PLACED 8' BEHIND LIMIT LINE.
- ALL PAVEMENT MARKINGS ARE PER CALTRANS STANDARD PLANS.
- LOCATIONS OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
- VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO SIGN POST INSTALLATION.
- ALL CONSTRUCTION AND PERMANENT SIGNS WILL HAVE 4" X 4" PRESSURE TREATED DOUGLAS FIR WOOD POSTS. POST SIZES SHOWN ARE DRESSED DRY MINIMUM SIZE.
- POST LENGTHS GIVEN ARE APPROXIMATE. EXACT LENGTH TO BE DETERMINED BY THE ENGINEER.
- SIGNS SHALL BE LOCATED PER "SIGN LOCATION DETAIL", THIS SHEET.
- ALL PERMANENT SIGNS SHALL BE 12 GAUGE (0.078") ALUMINUM PANELS.
- ALL EXISTING MARKERS/DELINEATORS WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND SALVAGED UNLESS OTHERWISE NOTED.
- ALL CULVERT MARKERS SHALL BE PLACED PER "MARKER (CULVERT)" DETAIL, THIS SHEET.
- ANY RELOCATED SIGNS DAMAGED BY THE RELOCATION PROCESS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. DAMAGED SIGNS ARE TO BE SALVAGED AND RETURNED TO EL DORADO COUNTY.



2 MARKER (CULVERT)
NTS

SIGNING AND PAVEMENT DELINEATION



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrison
REGISTERED CIVIL ENGINEER
DATE: 01/30/18

DESIGNED: DWH
DRAWN: SGM
CHECKED: DWH
DATE: 01/18/18
ROAD NUMBER: 09D

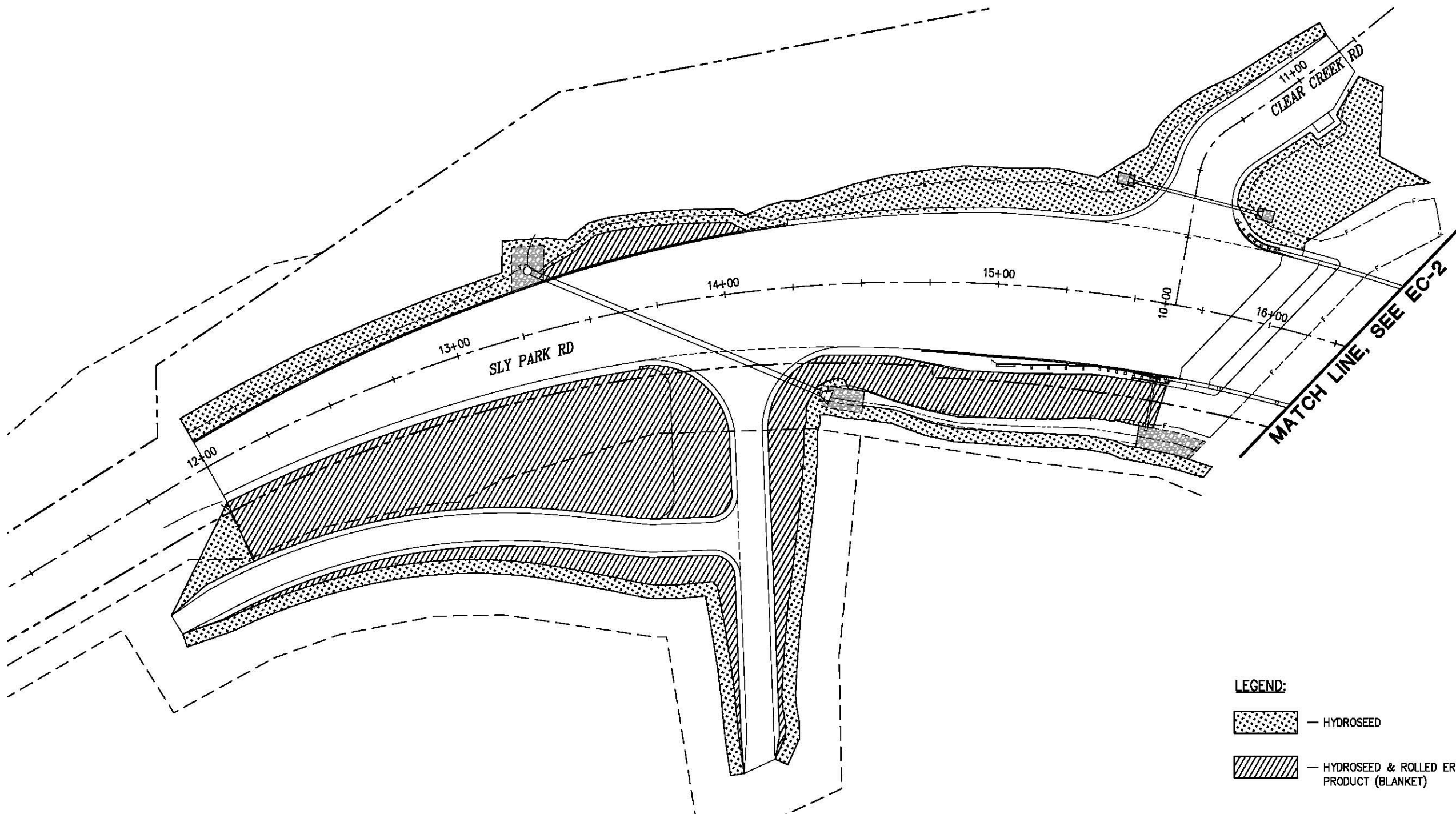




COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

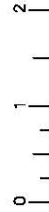
SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
SPD-2
32 OF 49
W.O. No. 77115

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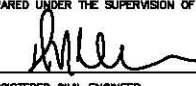
- LEGEND:**
-  - HYDROSEED
 -  - HYDROSEED & ROLLED EROSION CONTROL PRODUCT (BLANKET)



EROSION CONTROL PLAN
SCALE : 1" = 20'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090

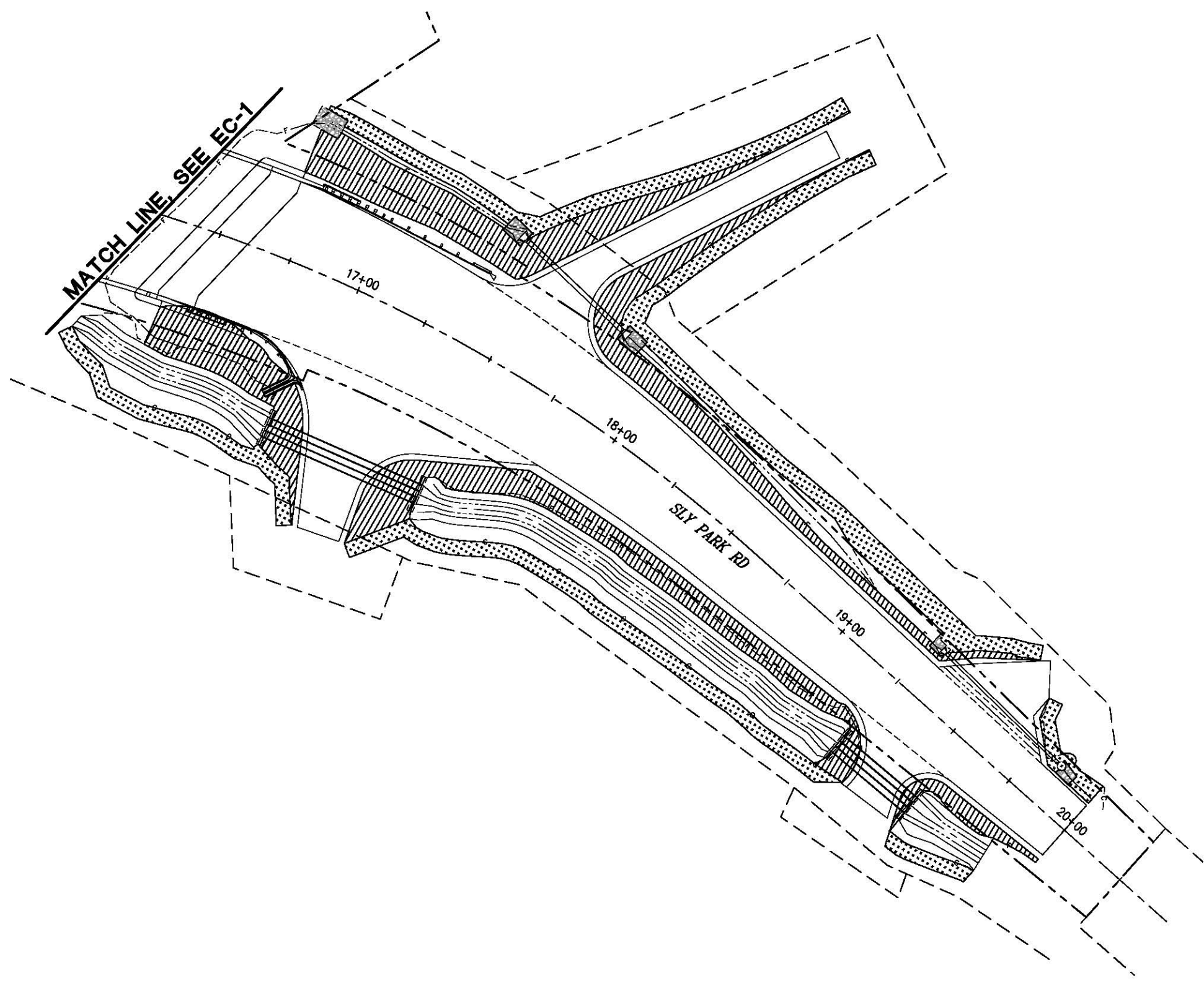


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
EC-1
 33 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS



LEGEND:

- HYDROSEED
- HYDROSEED & ROLLED EROSION CONTROL PRODUCT (BLANKET)



EROSION CONTROL PLAN
SCALE : 1" = 20'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 CHECKED: DWH
 ROAD NUMBER: 090

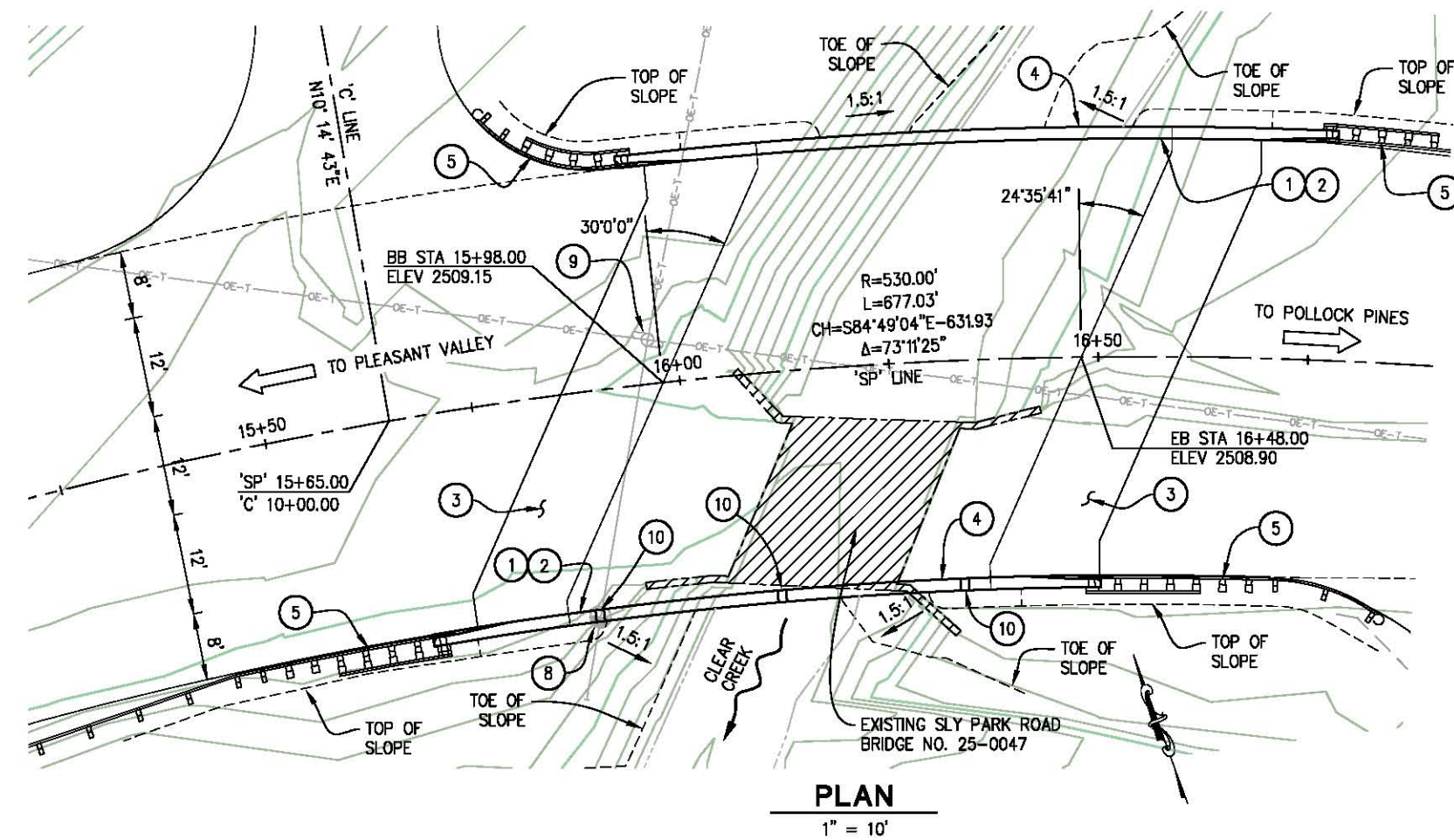
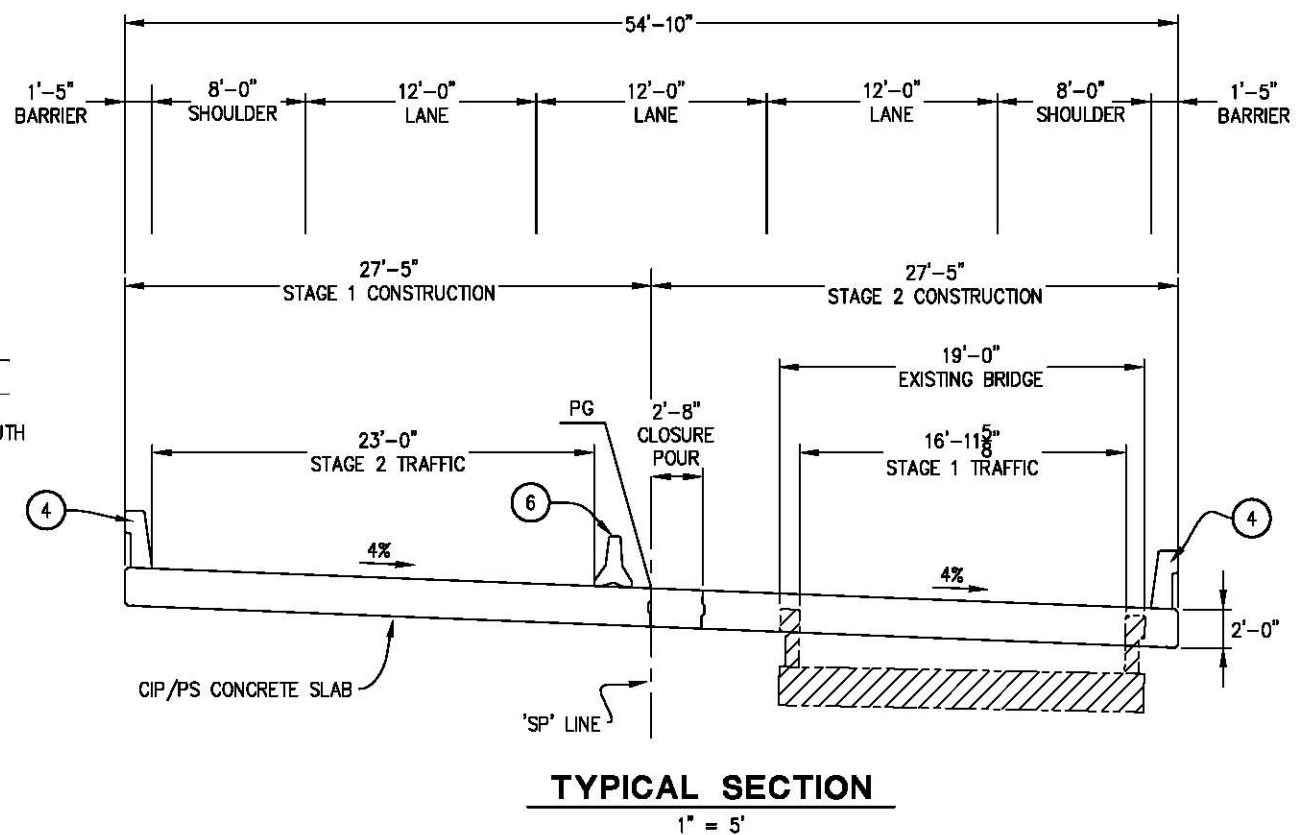
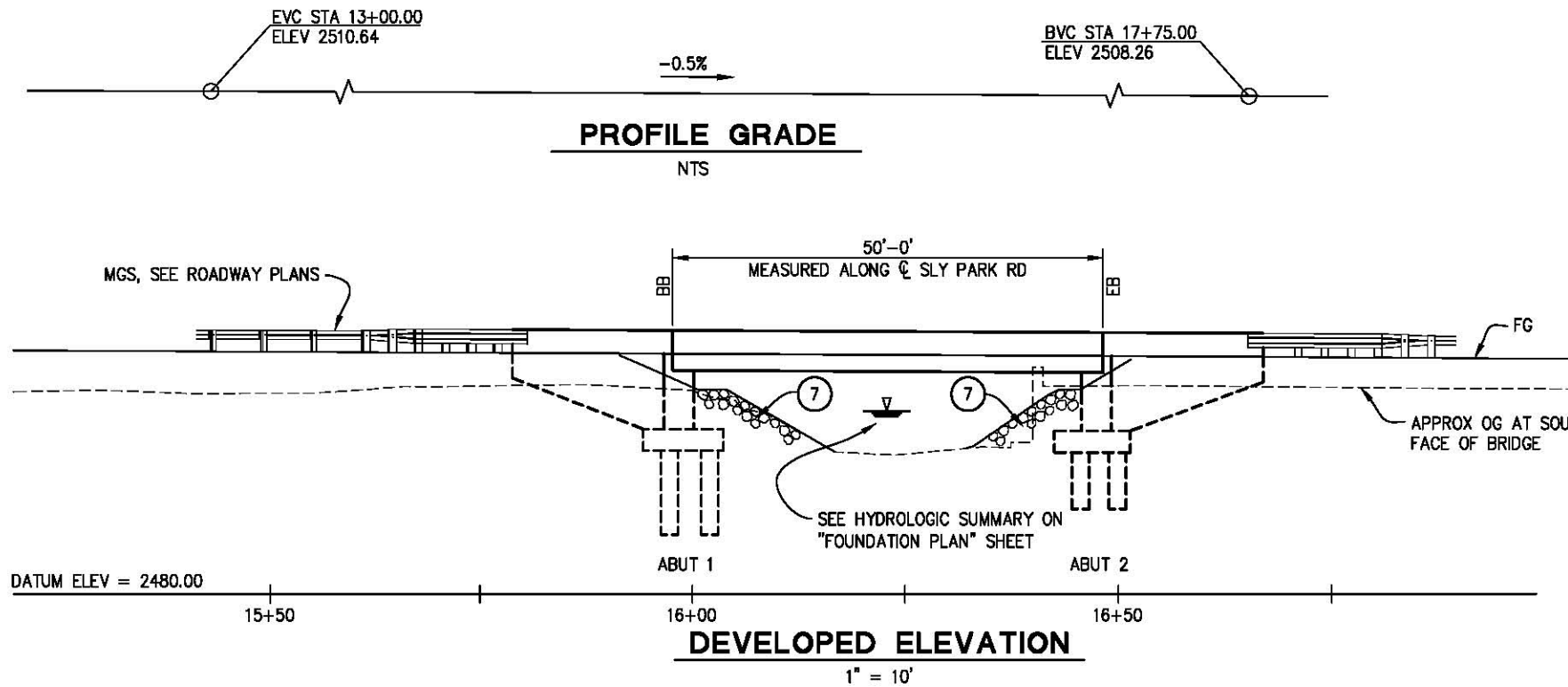


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
EC-2
 34 OF 49
 W.O. No. 77115

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LEGEND

— EXISTING BRIDGE TO BE REMOVED

NOTE:

CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS PRIOR TO ORDERING OR FABRICATING ANY MATERIAL, OR PERFORMING STRUCTURE EXCAVATION.

QUANTITIES:

STRUCTURE EXCAVATION (BRIDGE)	323	CY
STRUCTURE BACKFILL (BRIDGE)	194	CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	352	LF
PRESTRESSING CAST-IN-PLACE CONCRETE	1	LS
STRUCTURAL CONCRETE, (BRIDGE FOOTING)	95	CY
STRUCTURAL CONCRETE, (BRIDGE)	345	CY
STRUCTURAL CONCRETE, (APPROACH SLAB, TYPE EQ)	46	CY
DRILL AND BOND DOWEL	37	LF
JOINT SEAL (MR=1", TYPE B)	123	LF
BAR REINFORCING STEEL, (BRIDGE)	29,310	LB
BAR REINFORCING STEEL, (BRIDGE, EPOXY COATED)	10,514	LB
BRIDGE REMOVAL	1	LS
CONCRETE BARRIER (TYPE 732)	100	LF
CONCRETE BARRIER (TYPE 732A)	67	LF

CONSTRUCTION NOTES:

- 1 PAINT "CLEAR CREEK BRIDGE"
- 2 PAINT "BR. NO. 25-0144" & YEAR OF CONSTRUCTION
- 3 STRUCTURE APPROACH SLAB TYPE EQ(10)
- 4 CONCRETE BARRIER (TYPE 732)
- 5 MIDWEST GUARDRAIL, SEE ROAD PLANS
- 6 TEMPORARY RAILING (TYPE K) PINNED TO DECK, SEE "SLAB DETAILS" SHEET FOR ATTACHMENT TO DECK. SEE STAGE CONSTRUCTION PLANS FOR ADDITIONAL TEMPORARY RAILING DETAILS
- 7 ROCK SLOPE PROTECTION, SEE "ROCK SLOPE PROTECTION" SHEET
- 8 EXISTING GUY POLE TO BE REMOVED
- 9 EXISTING UTILITY POLE TO BE RELOCATED
- 10 SCUPPER: 3 EA @ 15+87, 16+10, AND 16+33

B7-8



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 090



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

GENERAL PLAN

SHEET
S-1
 35 OF 49
 W.D. No. 77115

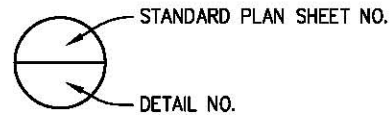
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INDEX TO PLANS

SHEET NO.	TITLE
S-1	GENERAL PLAN
S-2	INDEX TO PLANS
S-3	DECK CONTOURS
S-4	FOUNDATION PLAN
S-5	ABUTMENT LAYOUT NO. 1
S-6	ABUTMENT LAYOUT NO. 2
S-7	ABUTMENT DETAILS NO. 1
S-8	ABUTMENT DETAILS NO. 2
S-9	TYPICAL SECTION
S-10	SLAB DETAILS
S-11	LONGITUDINAL SECTION
S-12	ROCK SLOPE PROTECTION
S-13	STRUCTURE APPROACH TYPE EQ(10)
S-14	STRUCTURE APPROACH DRAINAGE DETAILS
S-15	LOG OF TEST BORINGS

CALTRANS STANDARD PLANS DATED 2015

A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-3	16" AND 24" CAST-IN-DRILLED-HOLE CONCRETE PILE
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
RSP B11-55	CONCRETE BARRIER TYPE 732



PILE DATA TABLE

LOCATION	PILE TYPE	NOMINAL RESISTANCE		DESIGN TIP ELEVATION	SPECIFIED TIP ELEVATION
		COMPRESSION	TENSION		
ABUTMENT 1	24" CIDH	210 kips	0	2487 (a)	2487
ABUTMENT 2	24" CIDH	210 kips	0	2491 (a)	2491

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

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN

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

SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC), VERSION 1.7, APRIL 2013.

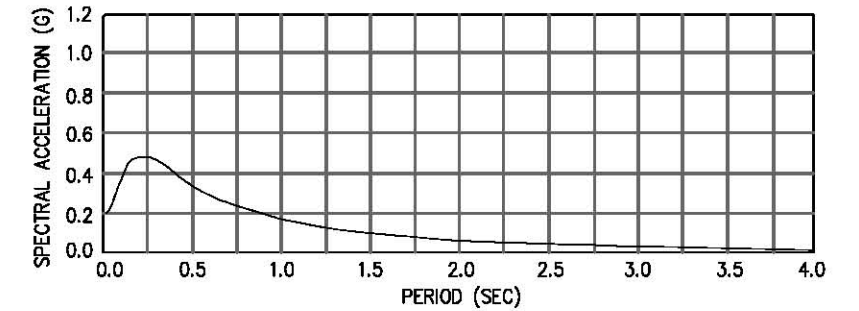
DEAD LOAD: INCLUDES 35 PSF FOR FUTURE WEARING SURFACE.

LIVE LOADING: HL93 W/ 'LOW-BOY' AND PERMIT DESIGN VEHICLE.

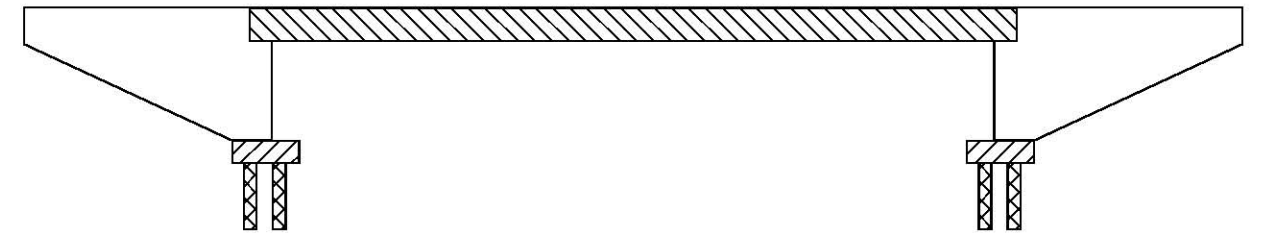
SEISMIC LOADING: SDC ARS CURVE FOR SOIL PROFILE TYPE B
 VS30 = 550 M/S (APPROXIMATELY 1800 FT/S)
 MAXIMUM MAGNITUDE = 6.5
 PEAK HORIZONTAL GROUND ACCELERATION = 0.2G

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

PRESTRESSED CONCRETE: SEE "PRESTRESSING NOTES" ON "LONGITUDINAL SECTION" SHEET.



**ACCELERATION
RESPONSE SPECTRA CURVE**



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)
- CAST-IN-DRILLED-HOLE (CIDH) CONCRETE (4.0 KSI @ 28 DAYS)

NOTE: CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS PRIOR TO ORDERING OR FABRICATING ANY MATERIAL, OR PERFORMING STRUCTURE EXCAVATION.

INDEX TO PLANS



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: RB
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 ROAD NUMBER: 090

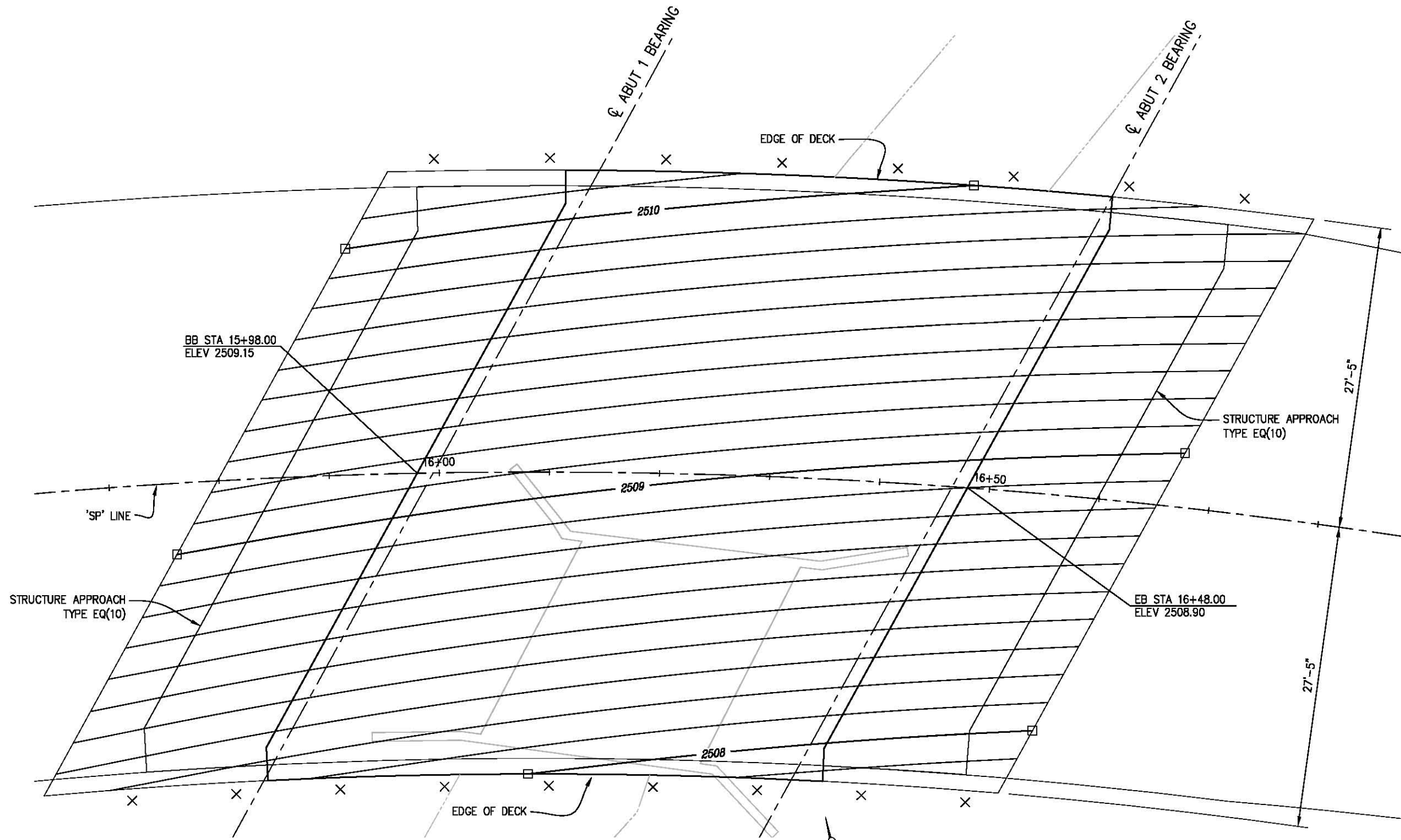


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
S-2
36 OF 49
W.O. No. 77115

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NOTES:

1. CONTOUR INTERVAL IS 0.1 FEET.
2. X - INDICATES 10' INTERVALS MEASURED ALONG 'SP' LINE.
3. □ - INDICATES WHOLE-FOOT CONTOURS.
4. CONTOURS DO NOT INCLUDE CAMBER OR ALLOWANCE FOR FALSEWORK SETTLEMENT.

NOTE: CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS PRIOR TO ORDERING OR FABRICATING ANY MATERIAL, OR PERFORMING STRUCTURE EXCAVATION.

DECK CONTOURS
1" = 5'



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COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT

DECK CONTOURS

SHEET
S-3
 37 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
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 Layout Tab: S-4 Jan 18, 2018 1:14pm SMeVey
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




SCOUR DATA TABLE		
SUPPORT NO.	LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (FT)	SHORT TERM (LOCAL) SCOUR DEPTH (FT)
ABUT 1	N/A	9.7
ABUT 2	N/A	10.0

HYDROLOGIC SUMMARY		
DRAINAGE AREA = 7.0 SQ. MI.		
	DESIGN FLOOD	BASE FLOOD
FREQUENCY (YEARS)	50	100
DISCHARGE (CFS)	1245	1529
WATER SURFACE ELEVATION (FT)*	2502.85	2503.90

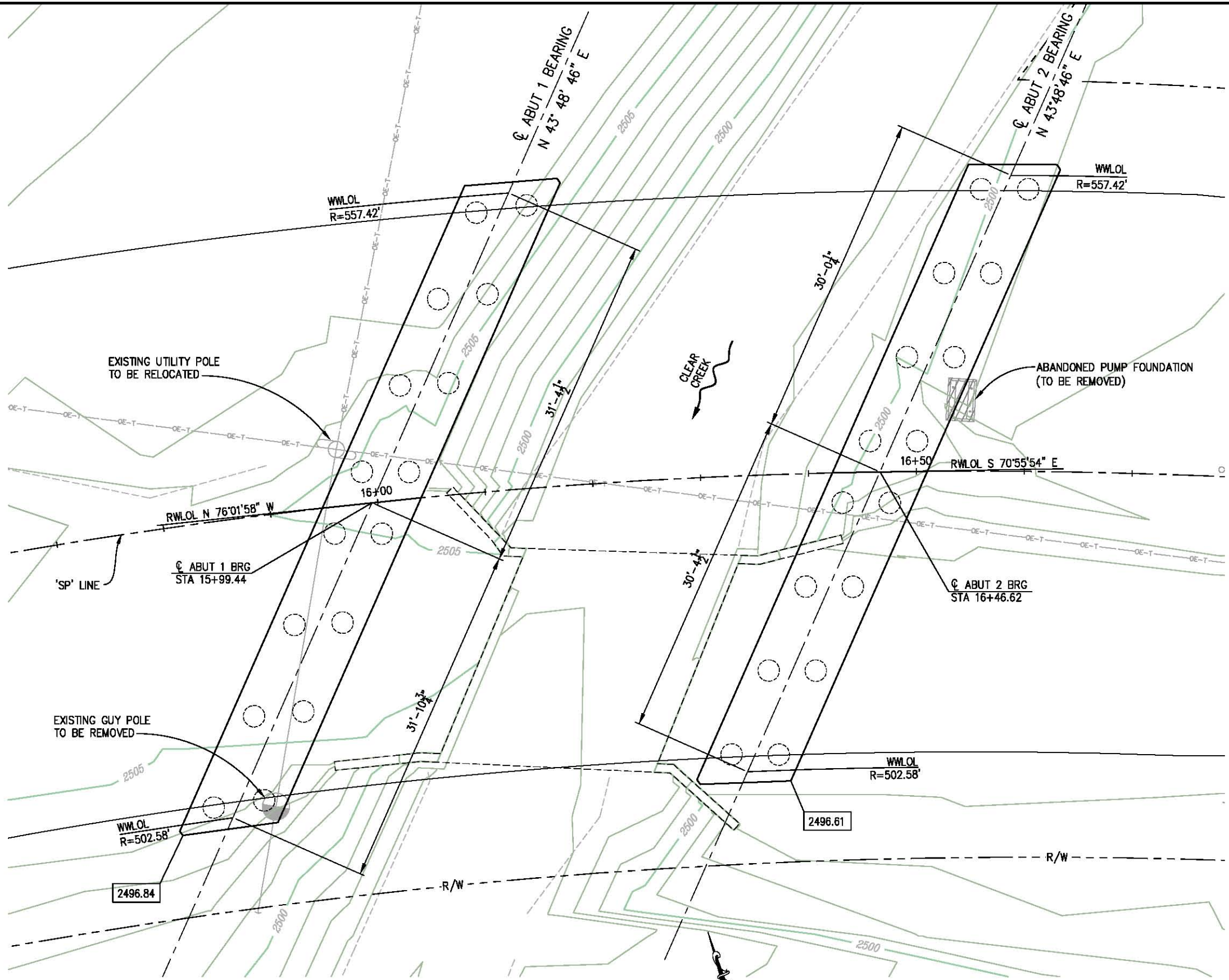
* ESTIMATED ELEVATION OF WATER SURFACE MEASURED AT THE UPSTREAM FACE OF THE BRIDGE.

NOTE: FLOODPLAIN DATA ARE BASED UPON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THIS INFORMATION IS FOR THE PURPOSES OF BRIDGE DESIGN ONLY, AND ANY INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATION.

LEGEND:

-  INDICATES BOTTOM OF FOOTING ELEVATION
-  INDICATES DIRECTION OF WATER FLOW
-  INDICATES VERTICAL PILE
-  INDICATES NEW STRUCTURE
-  INDICATES EXISTING STRUCTURE (TO BE REMOVED)

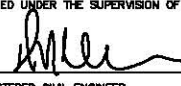
NOTE: CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS PRIOR TO ORDERING OR FABRICATING ANY MATERIAL, OR PERFORMING STRUCTURE EXCAVATION.



FOUNDATION PLAN
1" = 5'

FOUNDATION PLAN



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
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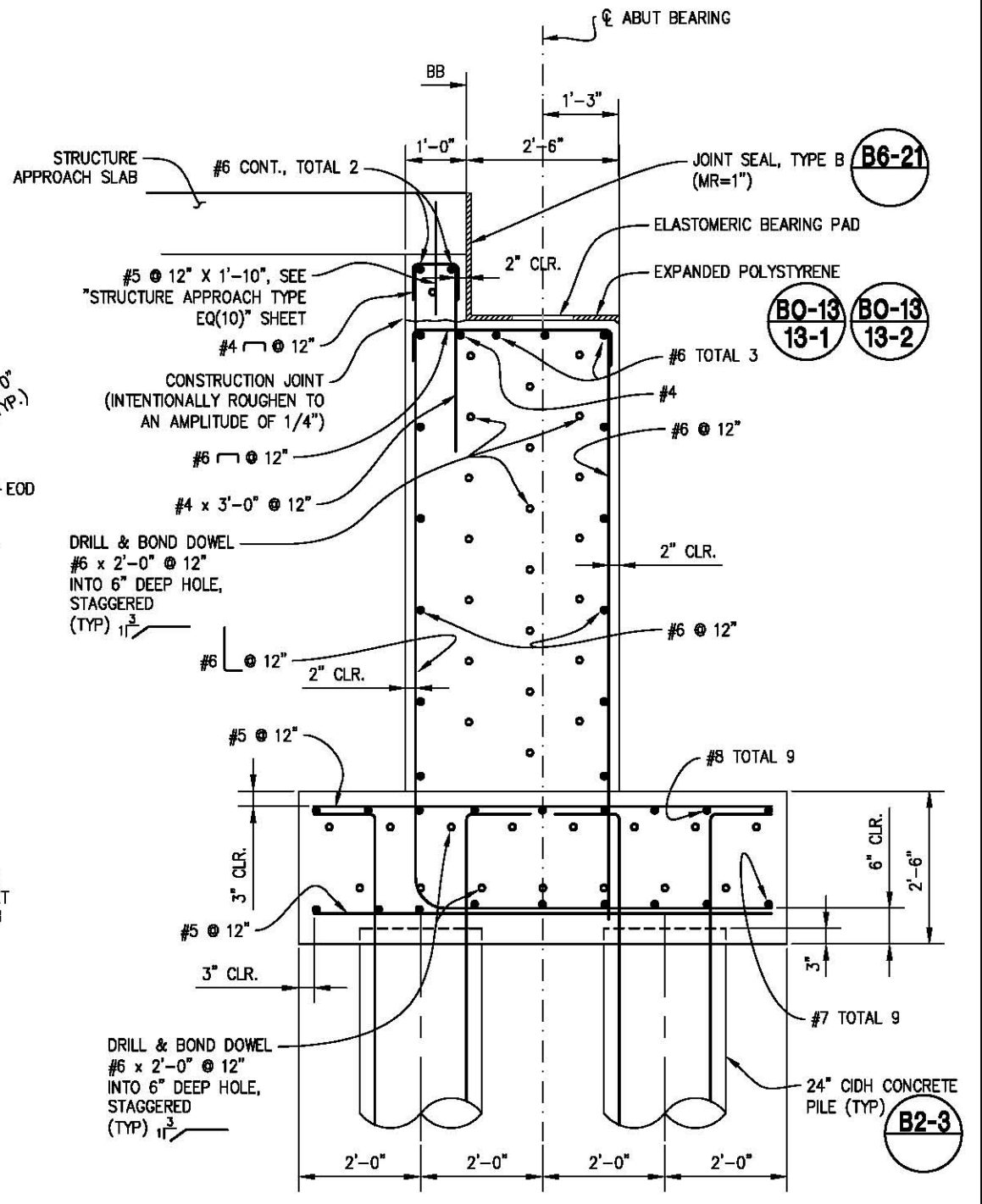
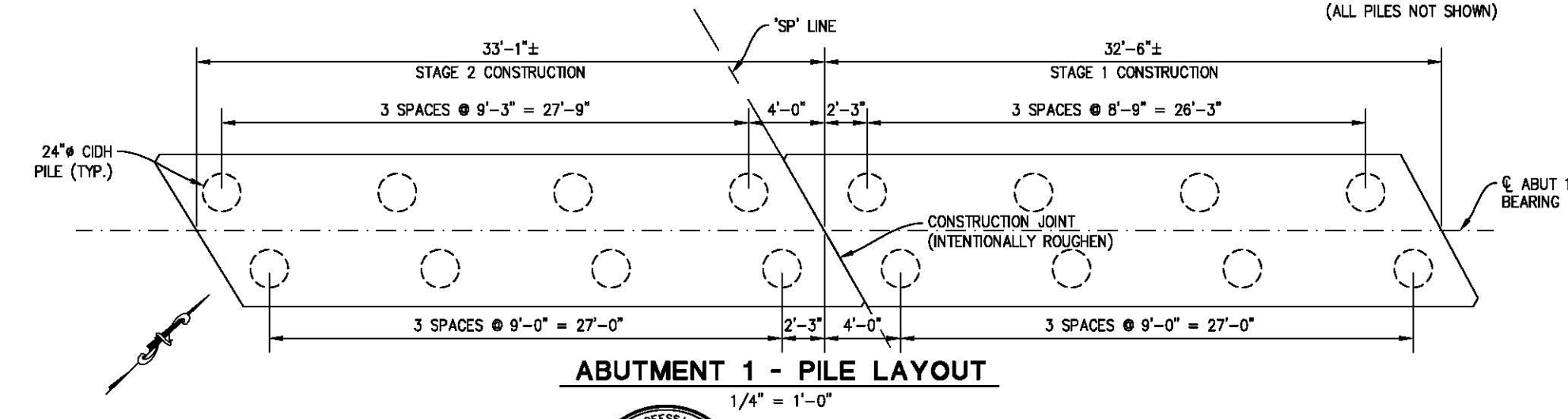
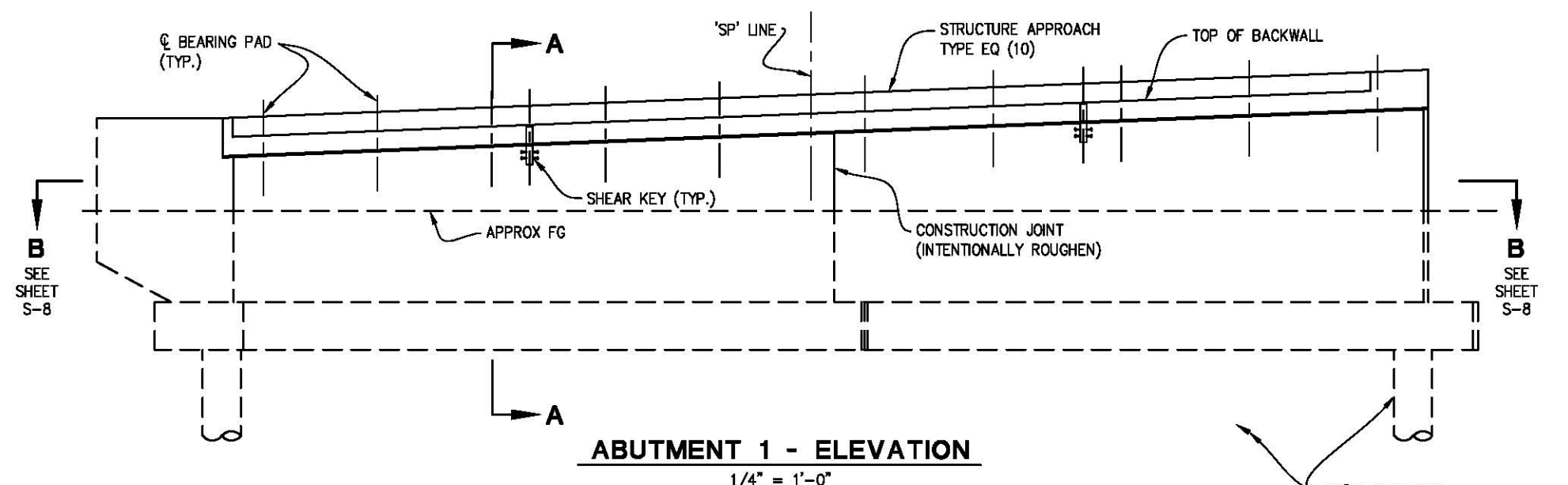
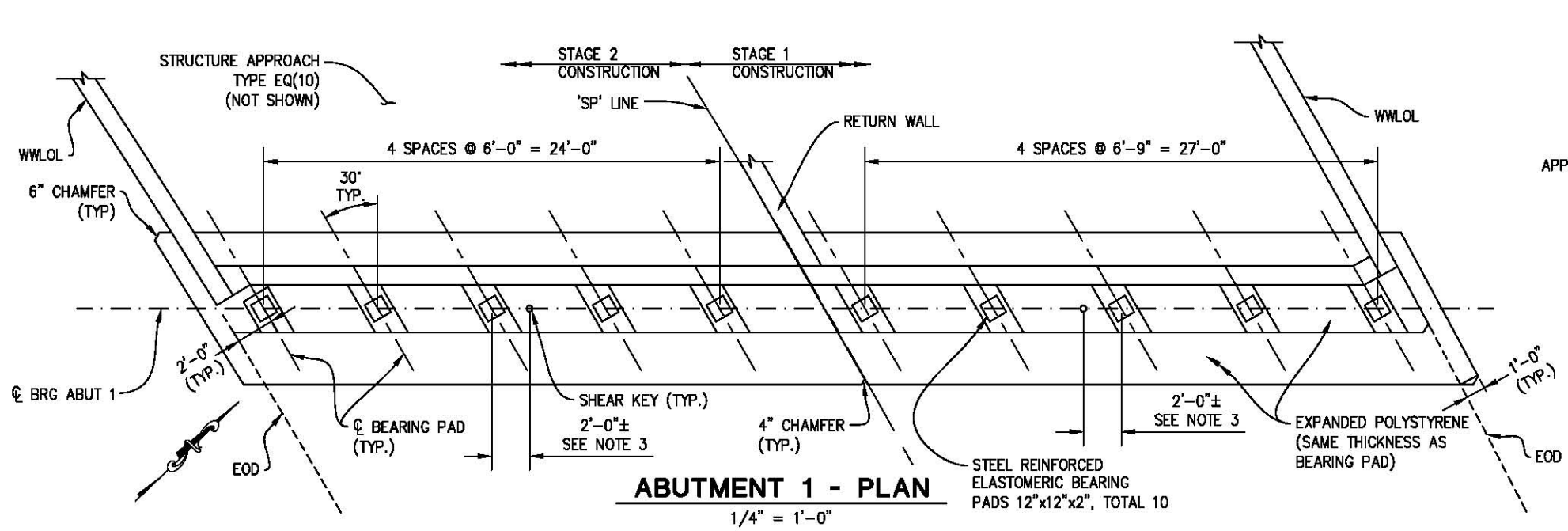


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
S-4
 38 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
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 Layout: Tab: S-5 Jan 18, 2018 1:17pm SHeVey



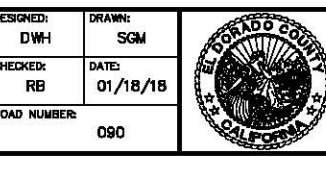
- NOTES:**
- FOR "FOOTING REINFORCEMENT PLAN", SEE "ABUTMENT DETAILS NO. 1" SHEET.
 - FOR SLOPE PROTECTION, SEE ROAD PLANS.
 - APPROXIMATE LOCATION OF PIPE SHEAR KEY. ENGINEER WILL CONFIRM EXACT LOCATION AFTER REVIEWING PRESTRESS SHOP DRAWINGS.

ABUTMENT LAYOUT NO. 1

REVISION	NUMBER	DATE	DESCRIPTION	BY

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: RB
 DATE: 01/18/18
 ROAD NUMBER: 09D

PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 No. C71517
 License Expires 12-31-18
 (CIVIL)
 STATE OF CALIFORNIA
 DATE: 01/30/18

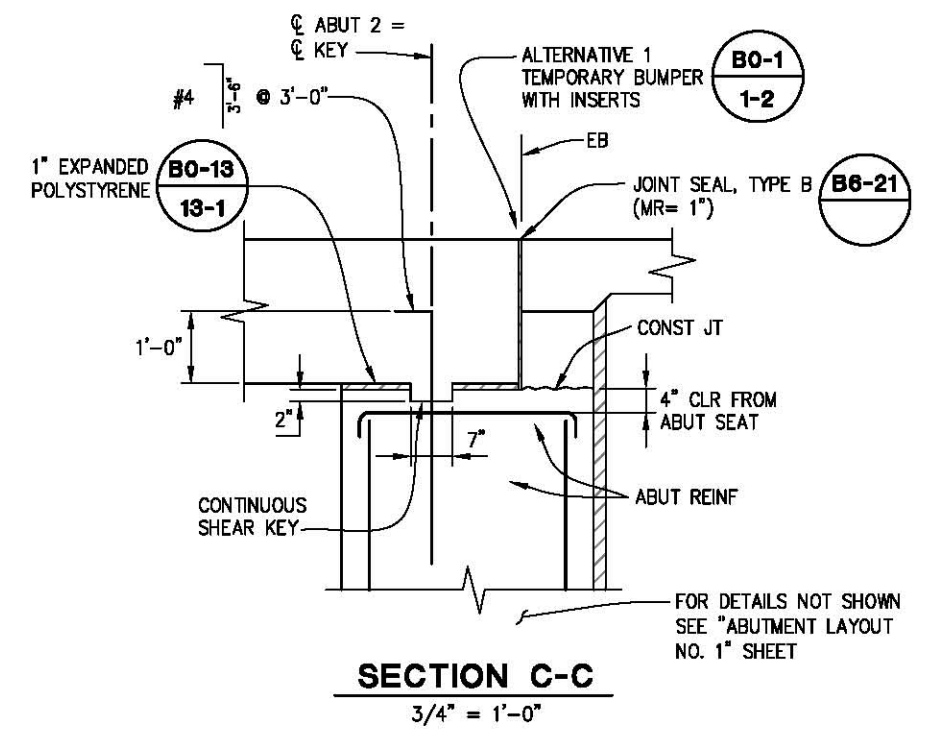
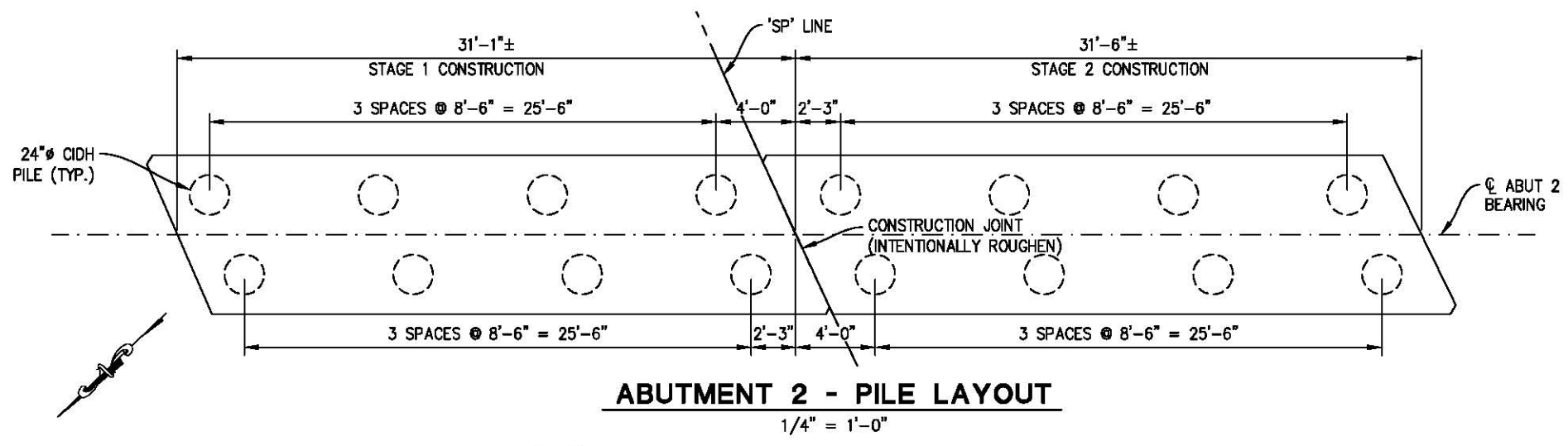
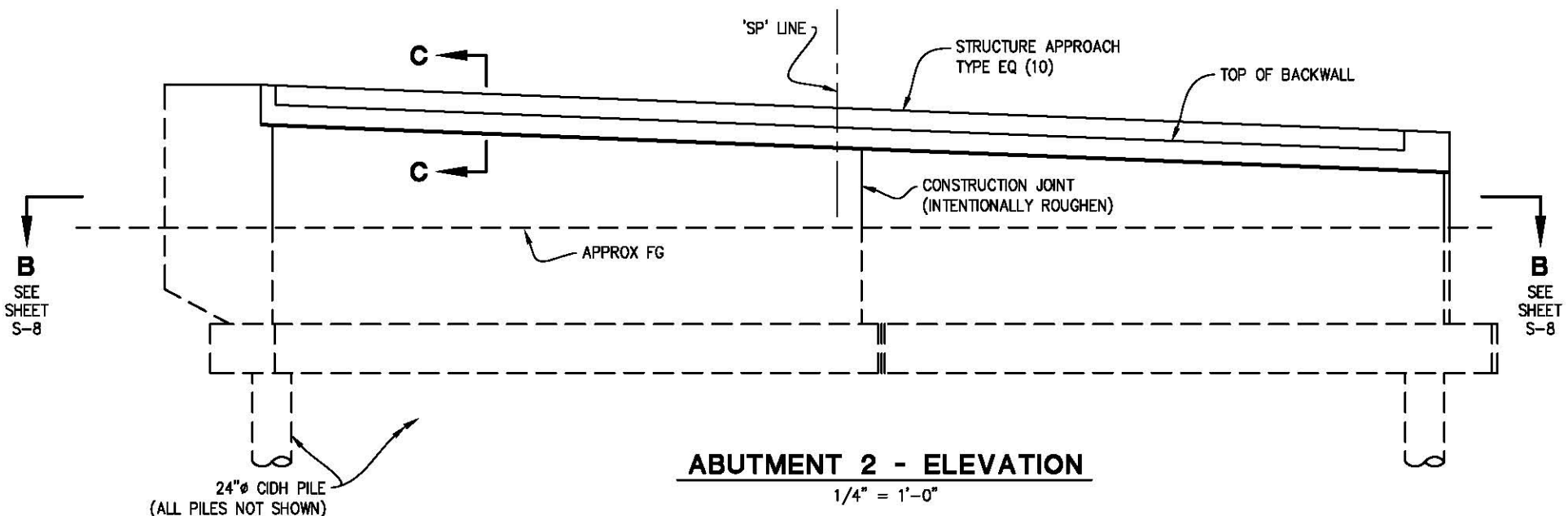
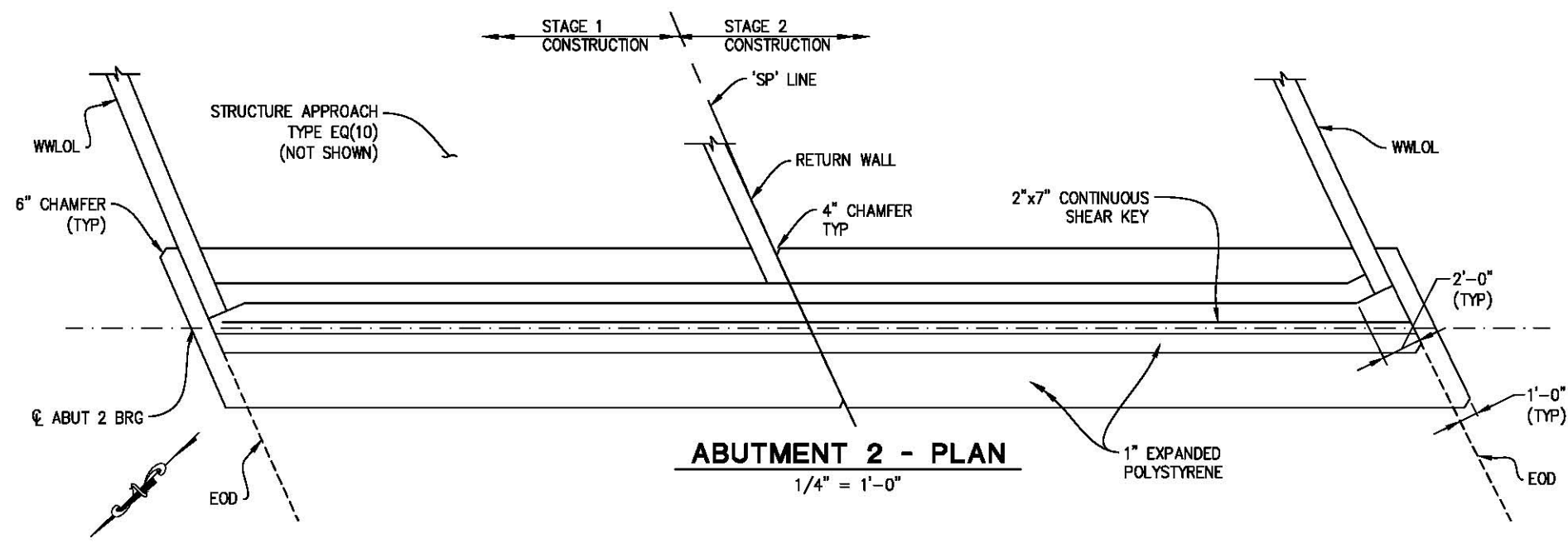


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT

SHEET
S-5
 39 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets\S-6.dwg
 Layout: Tab: S-6 Jan 18, 2018 1:18pm SMeVey



- NOTES:**
- FOR "FOOTING REINFORCEMENT PLAN", SEE "ABUTMENT DETAILS NO. 1" SHEET.
 - FOR SLOPE PROTECTION, SEE ROAD PLANS.

ABUTMENT LAYOUT NO. 2

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: RB
 DATE: 01/18/18
 ROAD NUMBER: 090

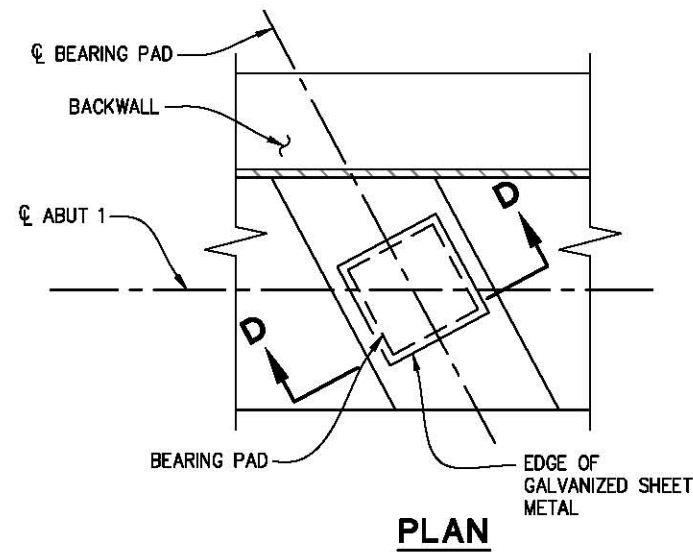


**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

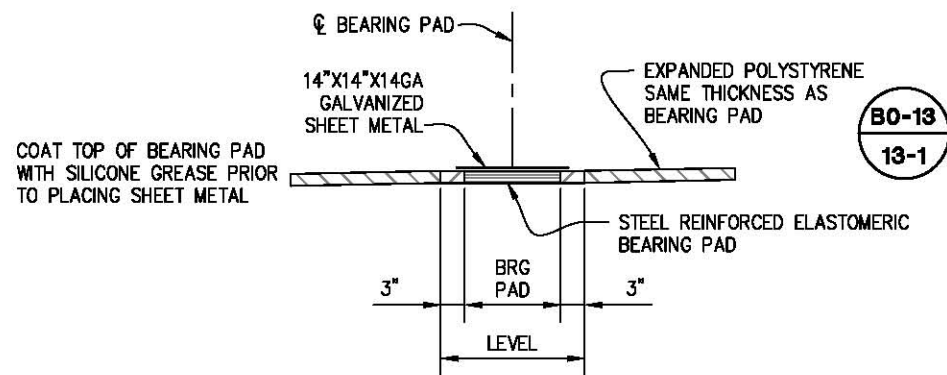
**SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT**

SHEET
S-6
 40 OF 49
 W.O. No. 77115

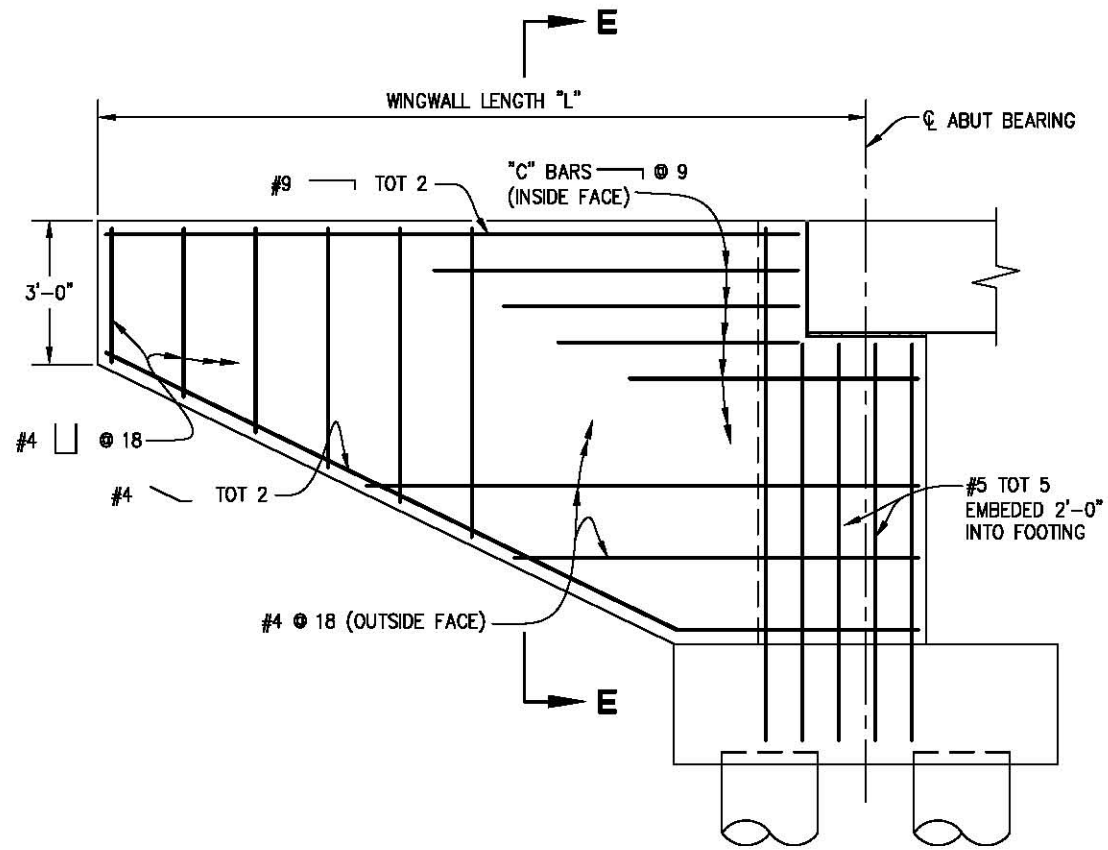
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 Drawing name: C:\Civil 3D Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets\S-7.dwg Layout Tab: S-7 Jan 18, 2018 1:19pm SMC\ey



PLAN



**SECTION D-D
BEARING PAD DETAIL**
1" = 1'-0"

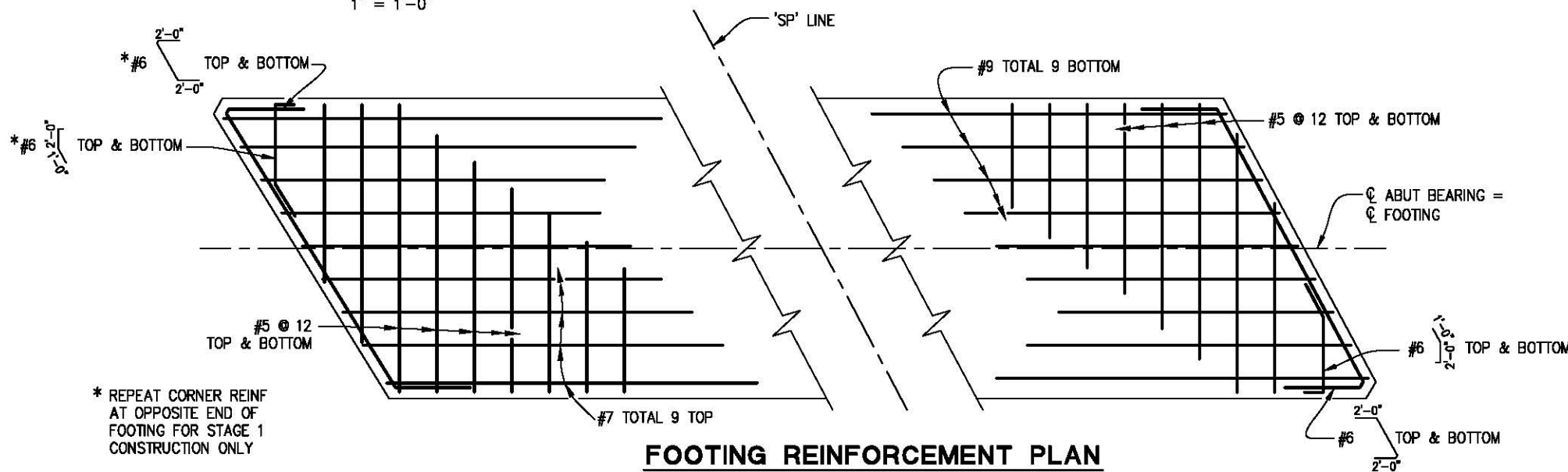


WINGWALL ELEVATION
1/2" = 1'-0"

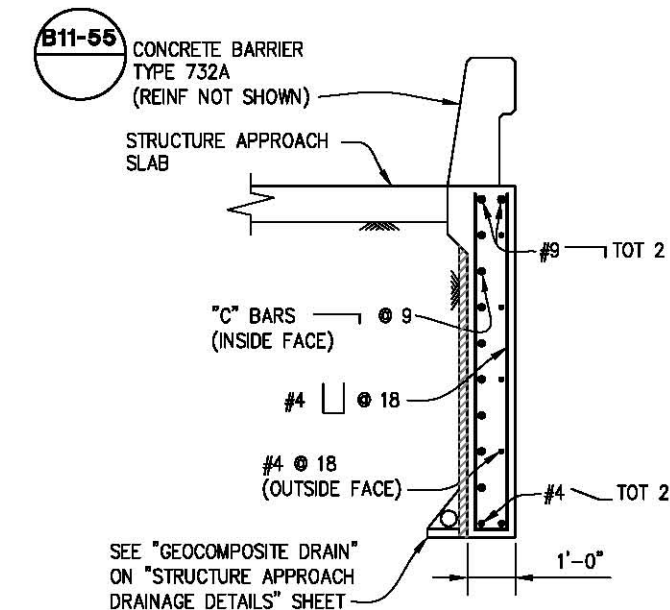
LOCATION	"L"	"C"
ABUT 1 LT	16'-0"	#7
ABUT 1 RT	20'-0"	#9
ABUT 2 LT	20'-0"	#9
ABUT 2 RT	16'-0"	#7
ABUT 1&2 RETURN	12'-0"	#5

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL, OR PERFORMING STRUCTURE EXCAVATION.



FOOTING REINFORCEMENT PLAN
1/2" = 1'-0"
(ABUTMENT 2 SHOWN, ABUTMENT 1 SIMILAR BY MIRROR IMAGE)



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

ABUTMENT DETAILS NO. 1



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: DWH
 DATE: 01/18/18
 ROAD NUMBER: 09D

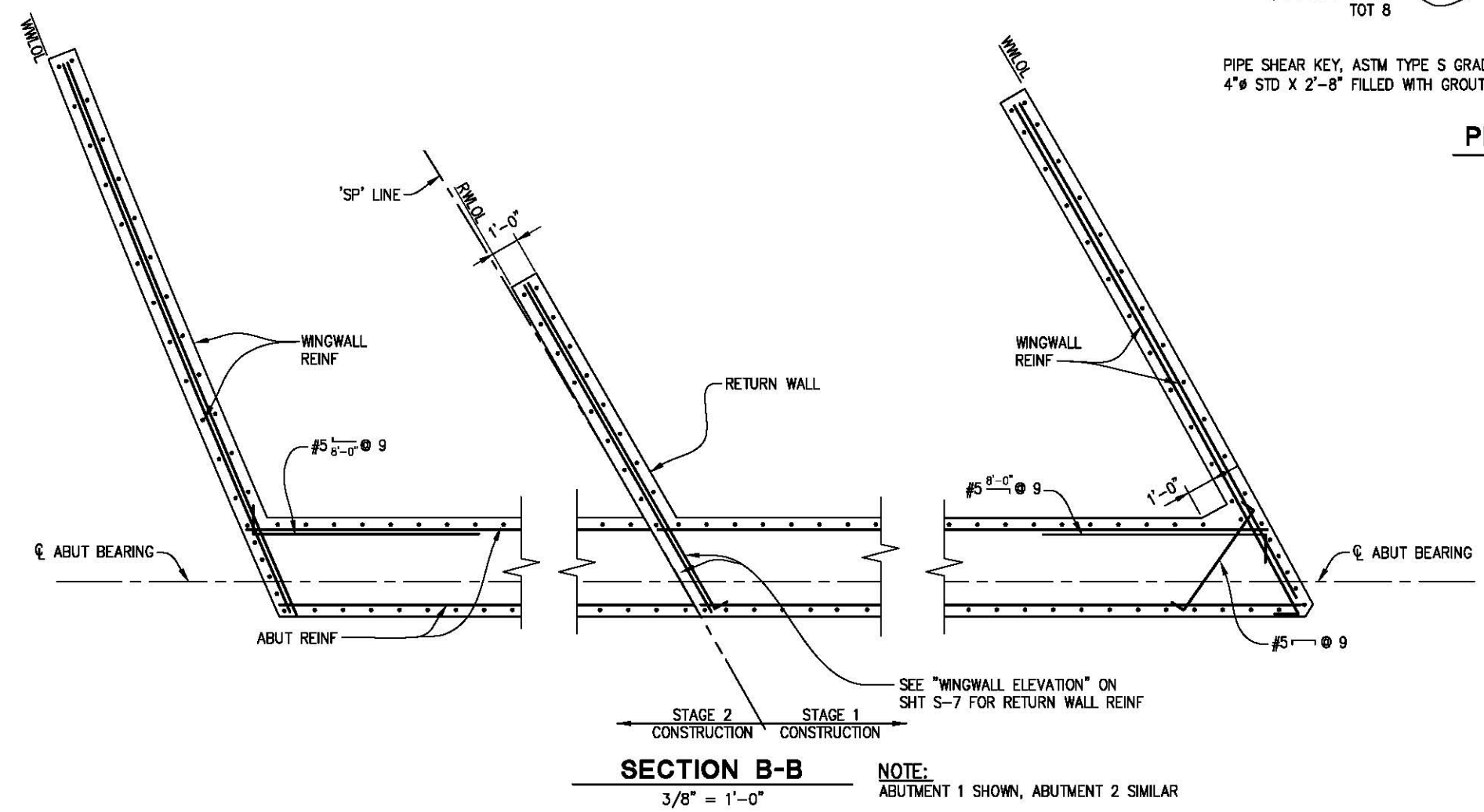
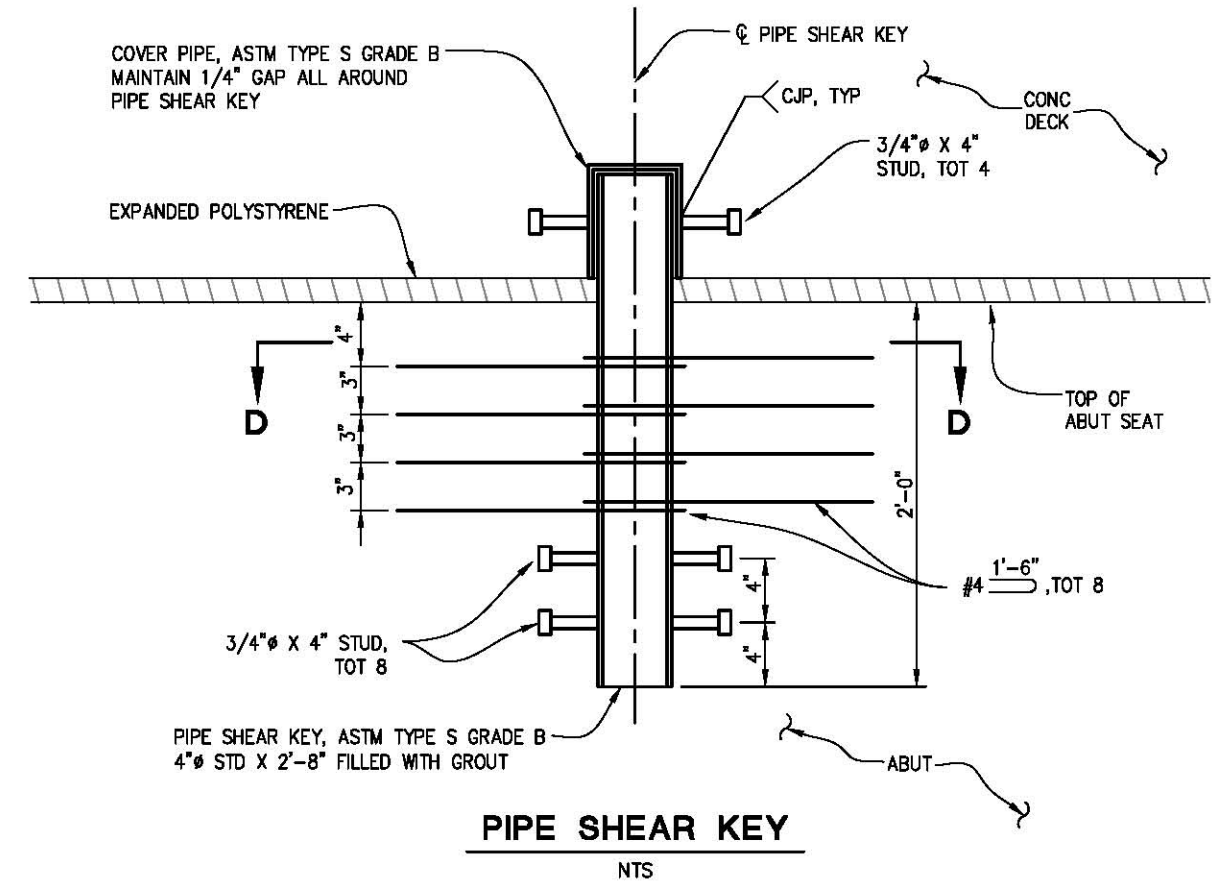
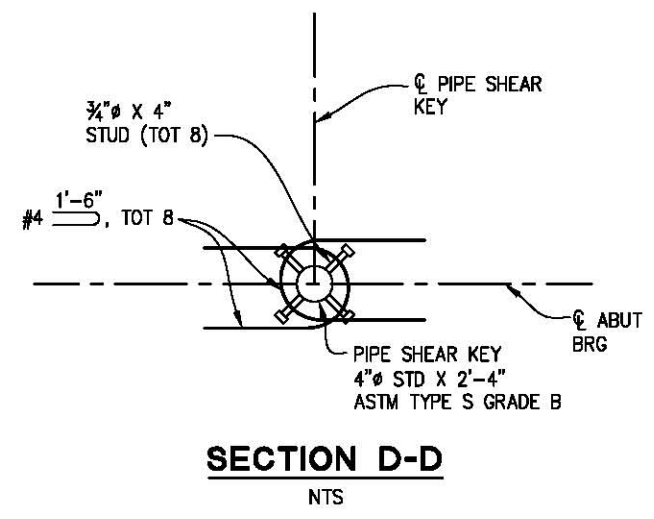
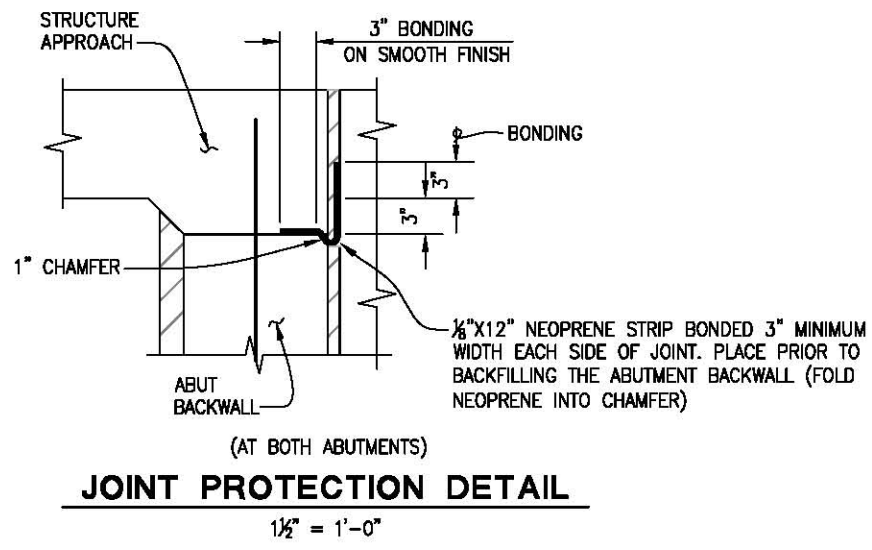


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

**SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT**

SHEET
S-7
 41 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
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 Layout: Tab: S-8 Jan 18, 2018 1:20pm SMCVey
 FOR REDUCED PLANS



NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ABUTMENT DETAILS NO. 2

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: RB
 DATE: 01/18/18
 ROAD NUMBER: 090

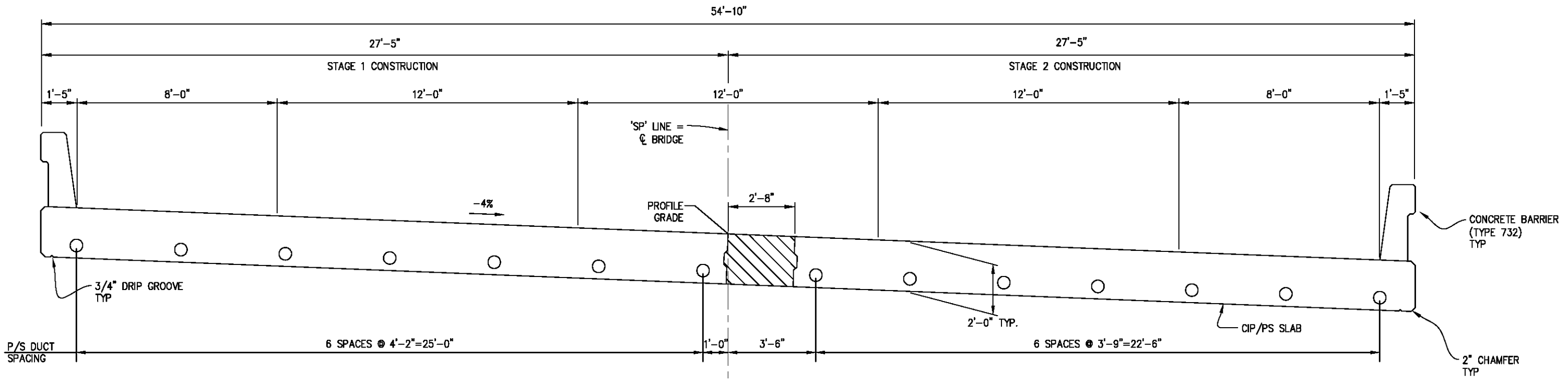


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
S-8
 42 OF 49
 W.O. No. 77115

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS



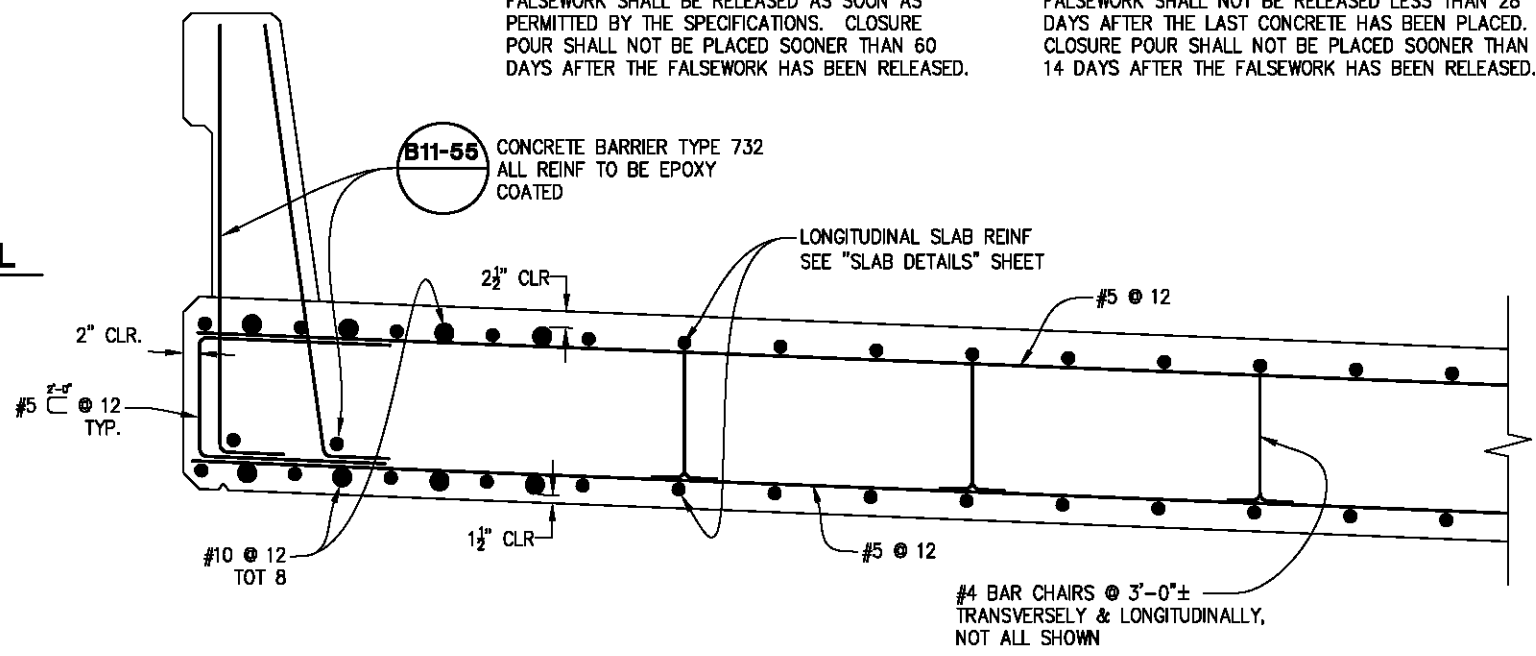
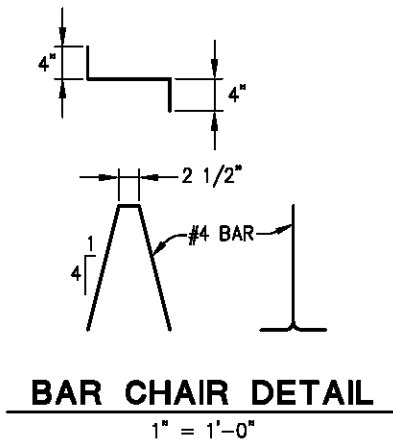
TYPICAL SECTION
1/2" = 1'-0"

LEGEND:
 — DENOTES CLOSURE POUR

FALSEWORK RELEASE

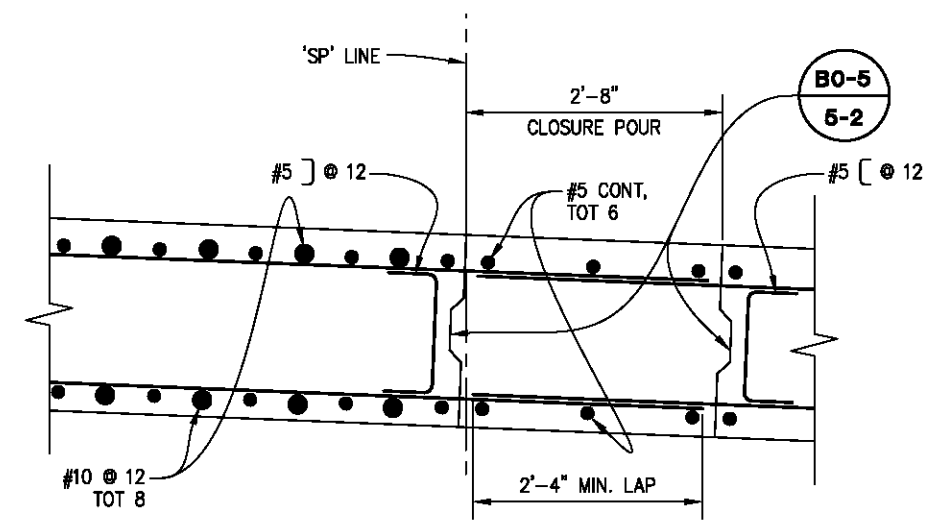
ALTERNATIVE 1:
 FALSEWORK SHALL BE RELEASED AS SOON AS PERMITTED BY THE SPECIFICATIONS. CLOSURE POUR SHALL NOT BE PLACED SOONER THAN 60 DAYS AFTER THE FALSEWORK HAS BEEN RELEASED.

ALTERNATIVE 2:
 FALSEWORK SHALL NOT BE RELEASED LESS THAN 28 DAYS AFTER THE LAST CONCRETE HAS BEEN PLACED. CLOSURE POUR SHALL NOT BE PLACED SOONER THAN 14 DAYS AFTER THE FALSEWORK HAS BEEN RELEASED.



PART TYPICAL SECTION
1" = 1'-0"

NOTE: ALL TOP MAT REINFORCEMENT TO BE EPOXY COATED.



CLOSURE POUR SECTION
1" = 1'-0"

TYPICAL SECTION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: RB
 DATE: 01/18/18
 ROAD NUMBER: 09D

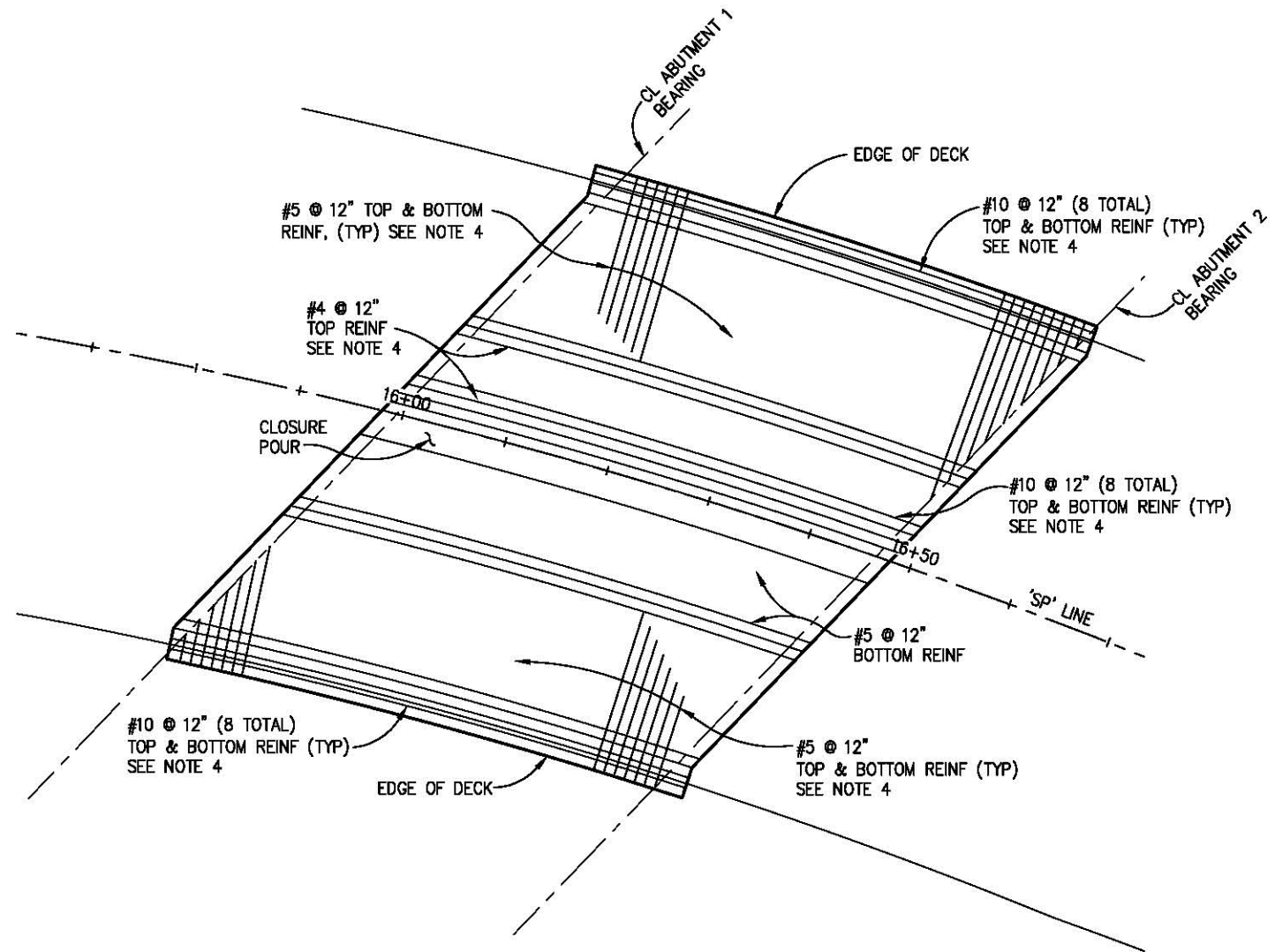


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

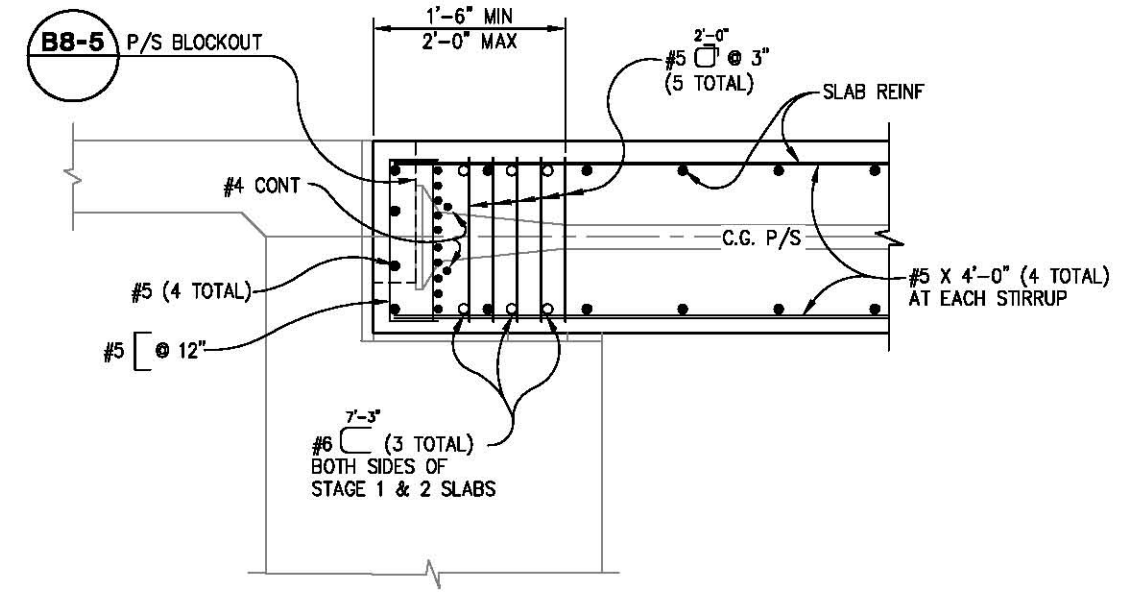
SHEET
S-9
 43 OF 49
 W.O. No. 77115

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 Drawing name: C:\Civil 3D\Projects\77115 SLY PARK-CLEAR CRK BRIDGE\CADD Files\Sheets\S-10.dwg Layout Tab: S-10 Jan 18, 2018 -- 1:21pm SMC/ey
 FOR REDUCED PLANS

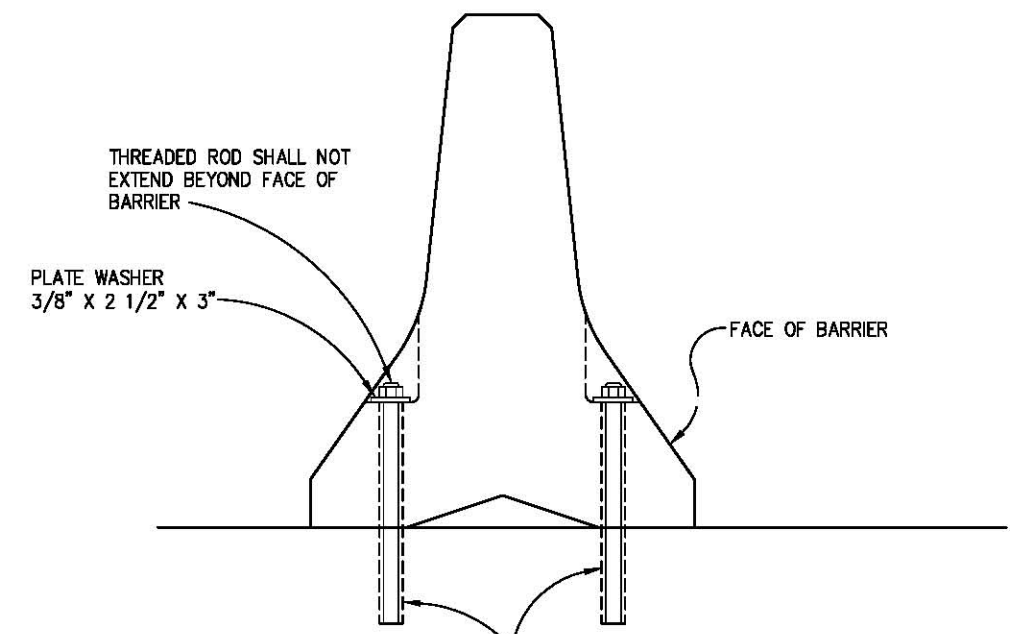


DECK PLAN
1/8" = 1'-0"

- NOTES:**
1. PLACE LONGITUDINAL STEEL PARALLEL, AND SPACE NORMAL TO CL BRIDGE.
 2. SEE "PART TYPICAL SECTION" ON SHEET S-9 FOR REINFORCEMENT DETAIL.
 3. ALL REINFORCING STEEL TO BE CONTINUOUS, UNLESS NOTED OTHERWISE.
 4. ALL TOP MAT REINFORCEMENT TO BE EPOXY COATED.



END DIAPHRAGM DETAIL
1" = 1'-0"



NOTE:
FOR TEMPORARY RAILING (TYPE K) LOCATION SEE "ROAD PLANS"

DRILL AND BOND 1" DIA ROD THREADED FULL LENGTH WITH NUT (STAINLESS STEEL) INTO HOLE 6" DEEP (TOTAL 4 PER RAIL SEGMENT). DRILL AND BOND DETAIL REQUIRED ONLY ON BRIDGE DECK

TEMPORARY RAILING (TYPE K) ATTACHMENT DETAIL
NTS

SLAB DETAILS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

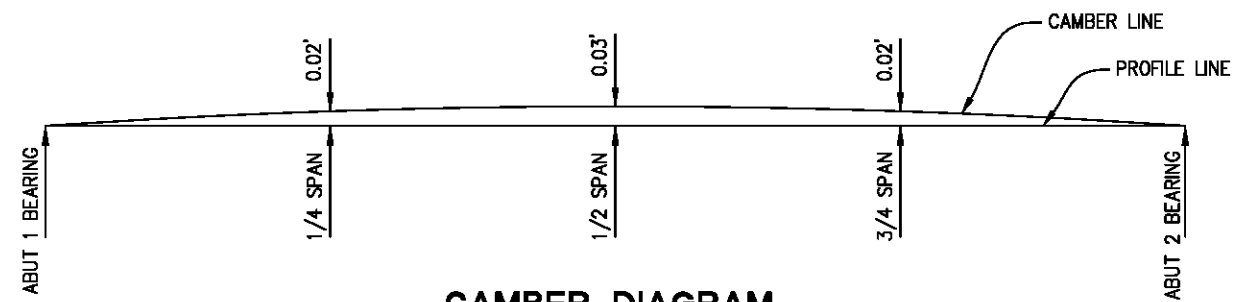
DESIGNED: DWH
 DRAWN: SGM
 CHECKED: RB
 DATE: 01/18/18
 ROAD NUMBER: 09D



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
S-10
 44 OF 49
 W.O. No. **77115**

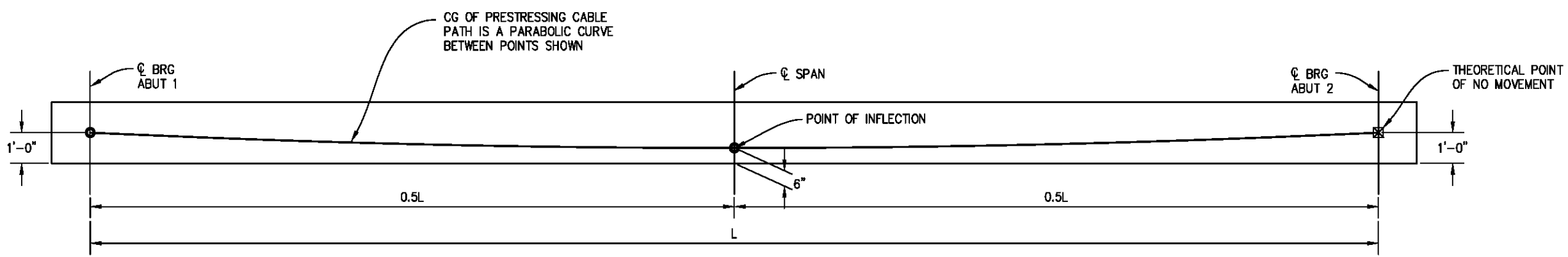


CAMBER DIAGRAM

NTS
DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK DEFLECTION OR SETTLEMENT

PRESTRESSING NOTES

270 KSI LOW RELAXATION STRAND:
 PJACK (STAGE 1) = 5570 KIPS
 PJACK (STAGE 2) = 4600 KIPS
 ANCHOR SET = 3/8"
 CONCRETE: $F'_c = 4.0$ KSI @ 28 DAYS
 $F'_{ci} = 3.5$ KSI @ TIME OF STRESSING
 CONTRACTOR SHALL SUBMIT ELONGATION CALCULATIONS
 BASED ON INITIAL STRESS AT:
 ☒ = 0.914 TIMES JACKING STRESS (STAGE 1)
 0.909 TIMES JACKING STRESS (STAGE 2)
 $\mu = 0.15$
 $K = 0.0002/FT$
 ONE END STRESSING SHALL BE PERFORMED FROM ABUT 1.



LONGITUDINAL SECTION

NTS

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77115_SLY PARK-CLEAR CRK BRIDGE\CADD Files\Streets\S-11.dwg Layout Tab: S-11 Jan 18, 2018 - 1:22pm SMcVey



LONGITUDINAL SECTION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Justin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: RB
 DATE: 01/18/18
 ROAD NUMBER: 09D

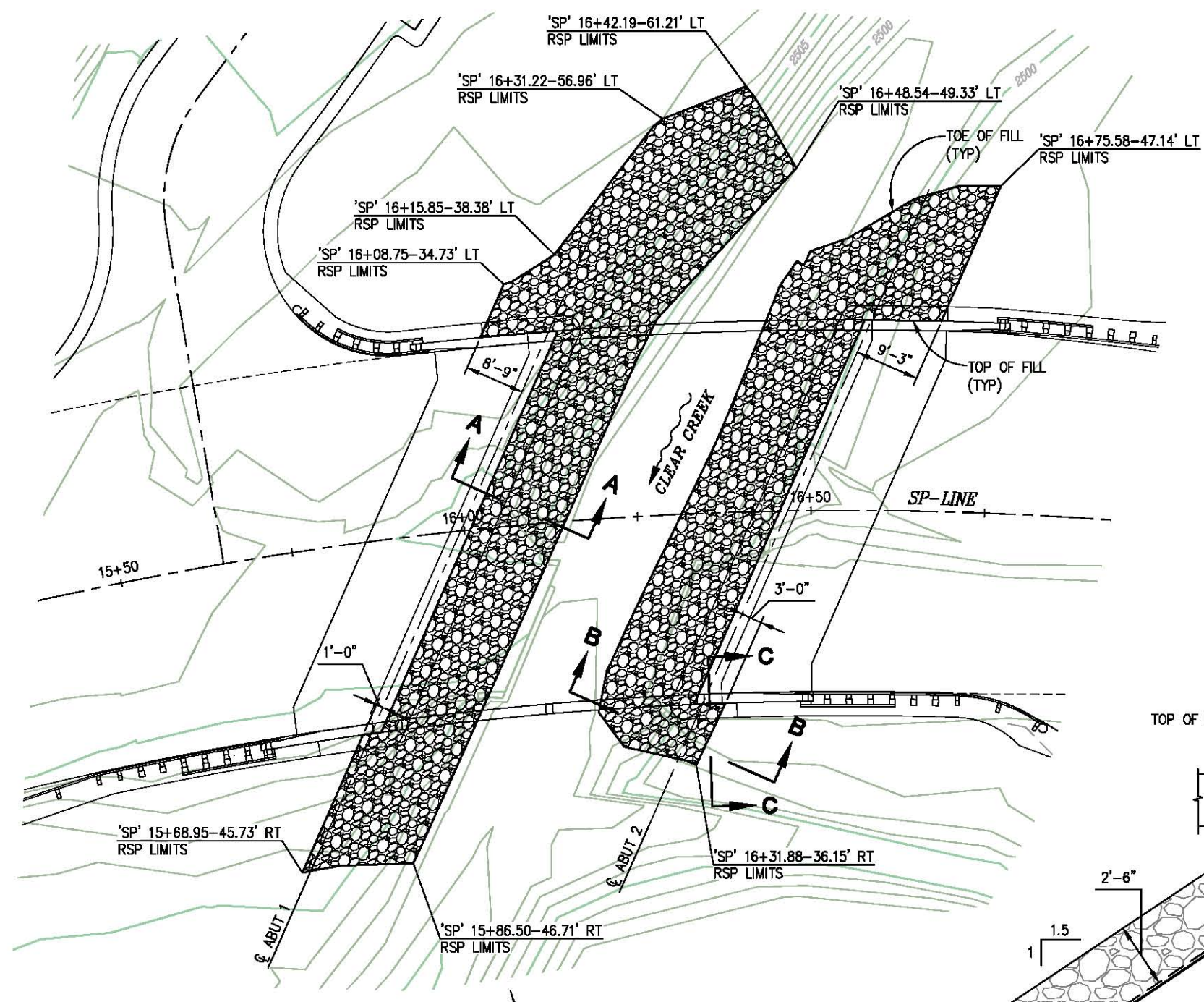


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

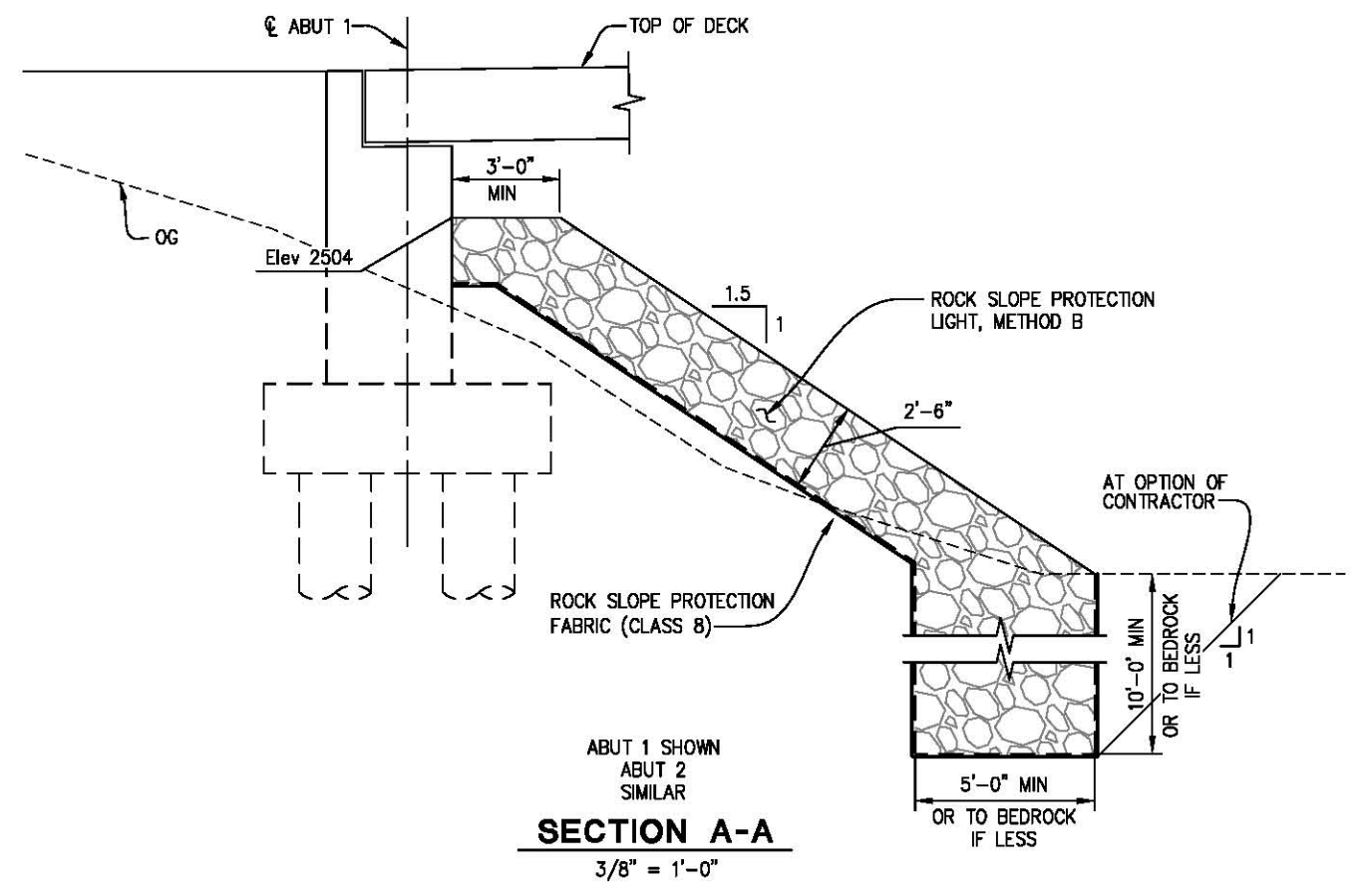
SLY PARK RD AT CLEAR CREEK
 CROSSING BRIDGE REPLACEMENT

SHEET
S-11
 45 OF 49
 W.O. No. 77115

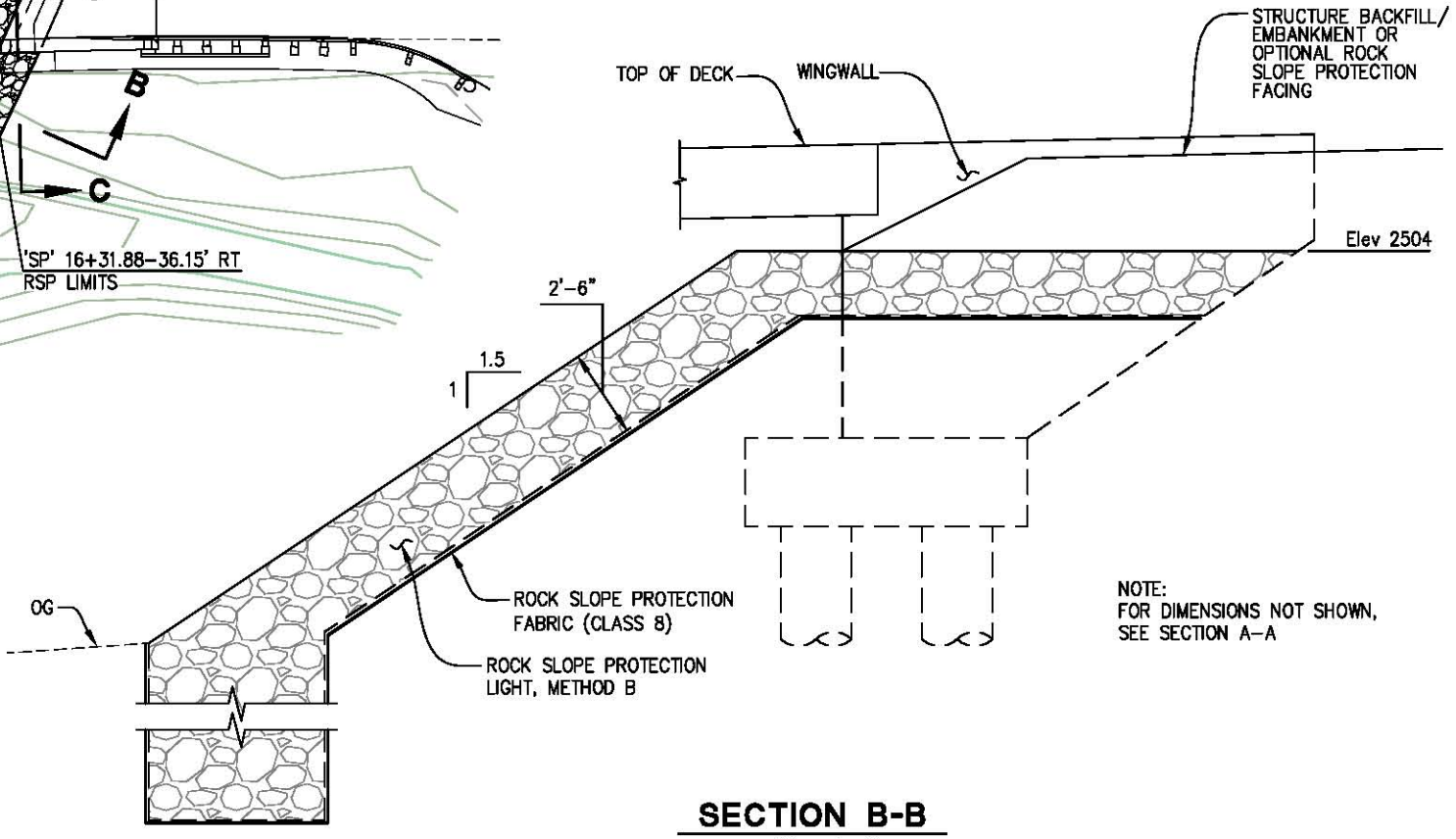
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 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



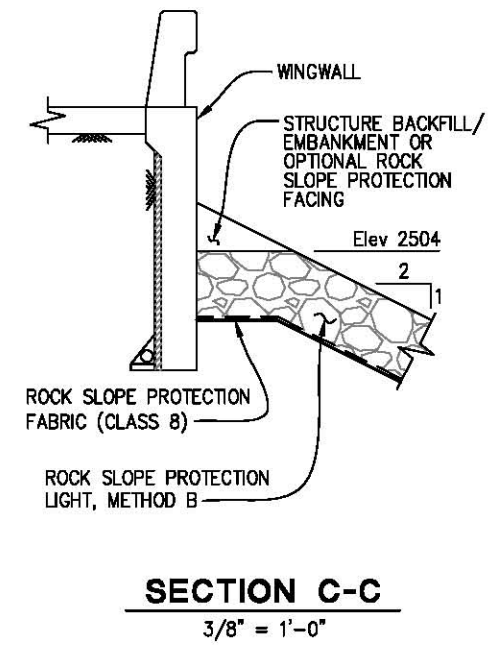
PLAN
1" = 10'



SECTION A-A
3/8" = 1'-0"



SECTION B-B
3/8" = 1'-0"



SECTION C-C
3/8" = 1'-0"

ROCK SLOPE PROTECTION



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 01/30/18

DESIGNED: DWH
 DRAWN: SGM
 CHECKED: RB
 DATE: 01/18/18
 ROAD NUMBER: 090



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SLY PARK RD AT CLEAR CREEK
CROSSING BRIDGE REPLACEMENT

SHEET
S-12
 46 OF 49
 W.D. No. 77115

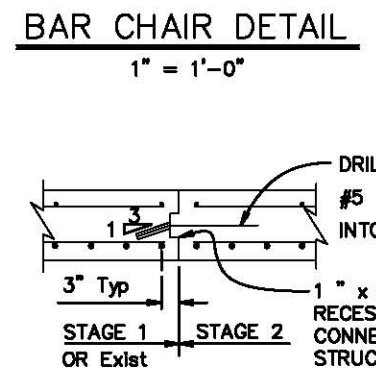
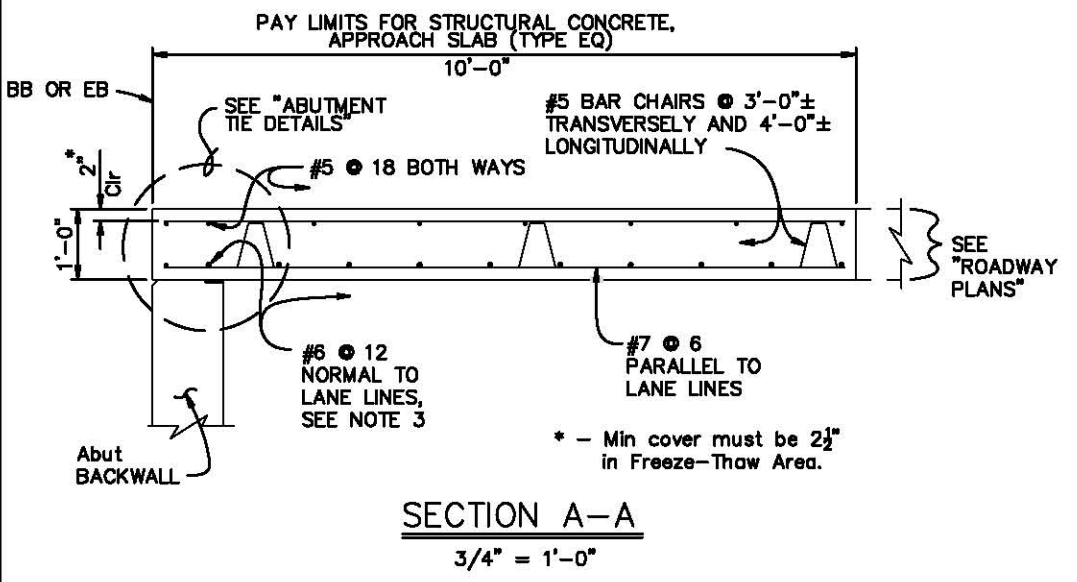
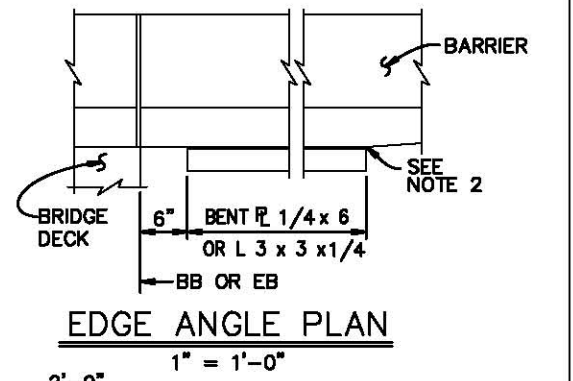
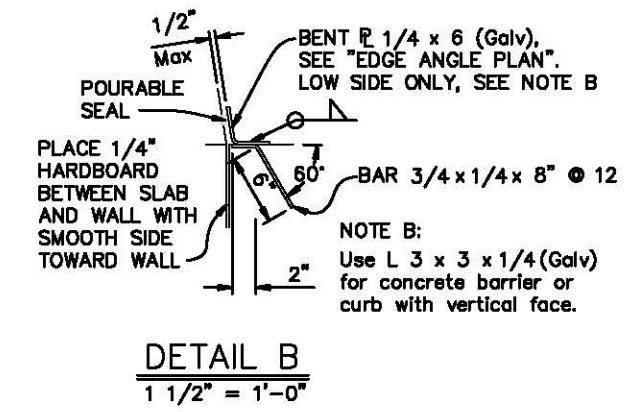
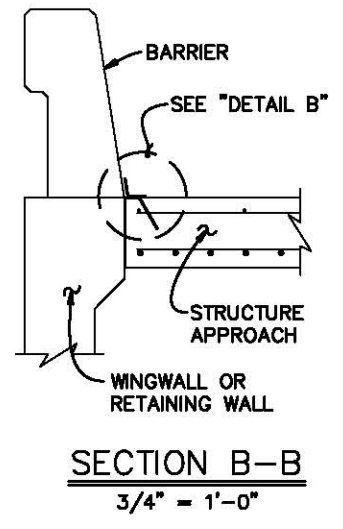
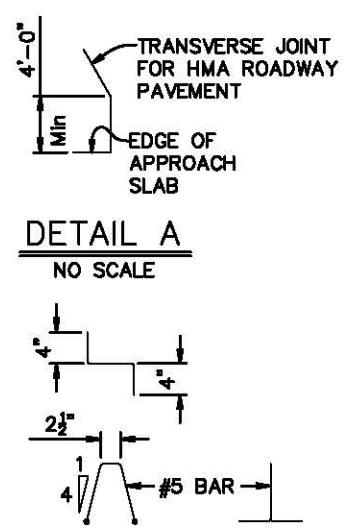
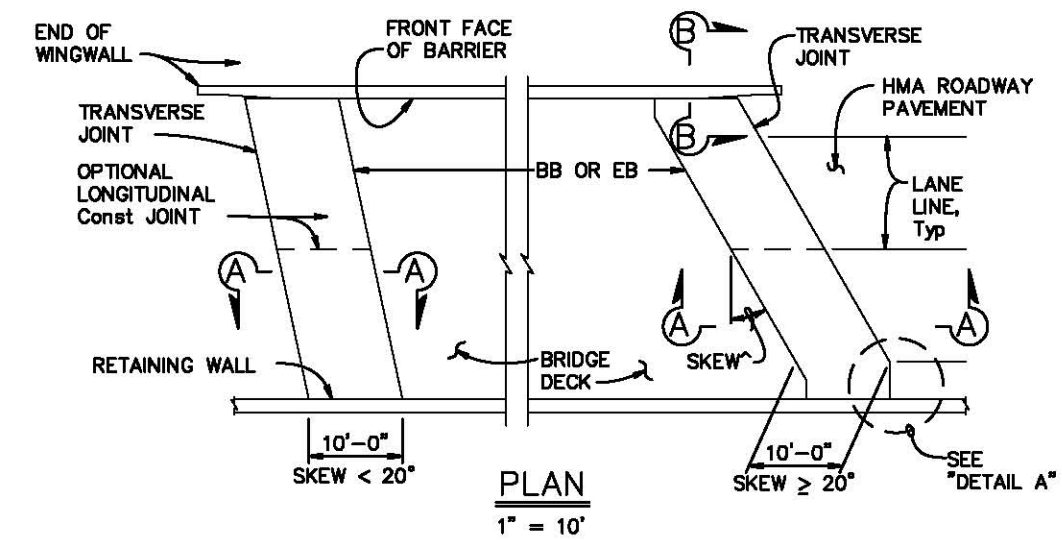
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	CR		47	49

REGISTERED CIVIL ENGINEER
 1/30/2018
 DATE

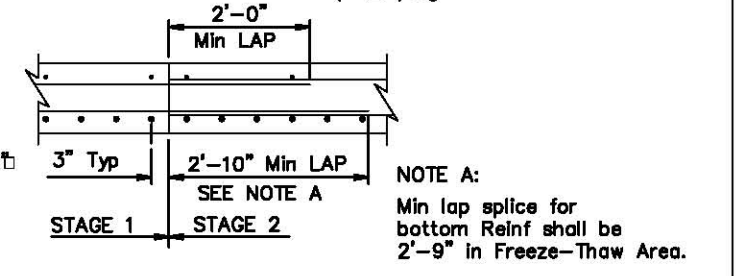
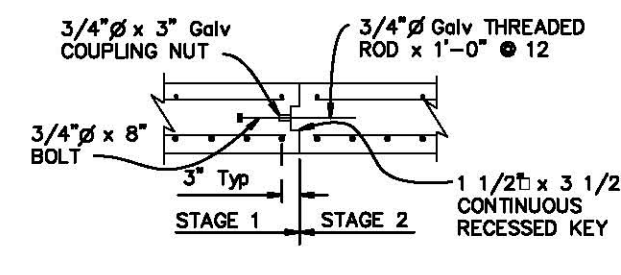
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

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

REGISTERED PROFESSIONAL ENGINEER
 Dustin W. Harrington
 No. C71517
 Exp. 12-31-19
 CIVIL
 STATE OF CALIFORNIA



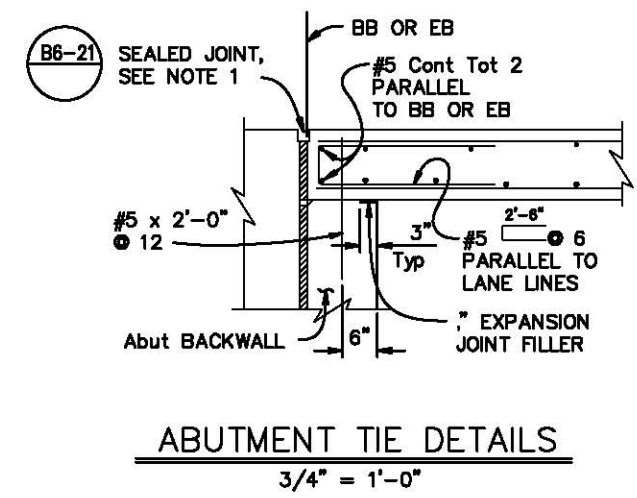
LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
 3/4" = 1'-0"



DESIGN NOTES

- DESIGN: AASHTO LRFD Bridge Design Specifications, 2012 Edition with Caltrans Amendments, preface dated January 2014
- LIMIT STATES: Service I, Strength I & II, Extreme II and Fatigue I ($\gamma_{FAT} = 1.0$)
- DEAD LOAD: Includes 35 psf for future wearing surface
- LIVE LOAD: HL93 and permit design load
 Equivalent strip width method: $W_f = 12$ ft
 Slab Span: $L_f = 7.83$ ft
- REINFORCED CONCRETE:
 $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

- NOTES:
- For joint protection details, breakout dimensions for joint seal assembly, and other details not shown, see other plans sheets. For $MR \leq 2'$, adjust reinforcement to clear sawcut for sealed joint. For $MR > 2'$, haunch reinforcement placed for joint seal assembly breakout must be normal to BB or EB and spaced to avoid joint seal assembly anchorage.
 - End the plate or edge angle at beginning of barrier transition, end of wingwall, or end of structure approach as applicable.
 - At the Contractor's option, approach slab transverse reinforcement may be placed parallel to BB or EB. Spacing of transverse reinforcement is measured along roadway.



BRIDGE STANDARD DETAILS		The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Director, a registered civil engineer in the State of California.	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 25C0144	SHEET S-13 STRUCTURE APPROACH TYPE EQ (10)
x83-160					POST MILE	
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: _____ PROJECT NUMBER: _____	CONTRACT NO.: _____	DISREGARD PRINTS BEARING EARLIER REVISION DATES
			0 1 2 3			REVISION DATES
						SHEET 47 OF 49

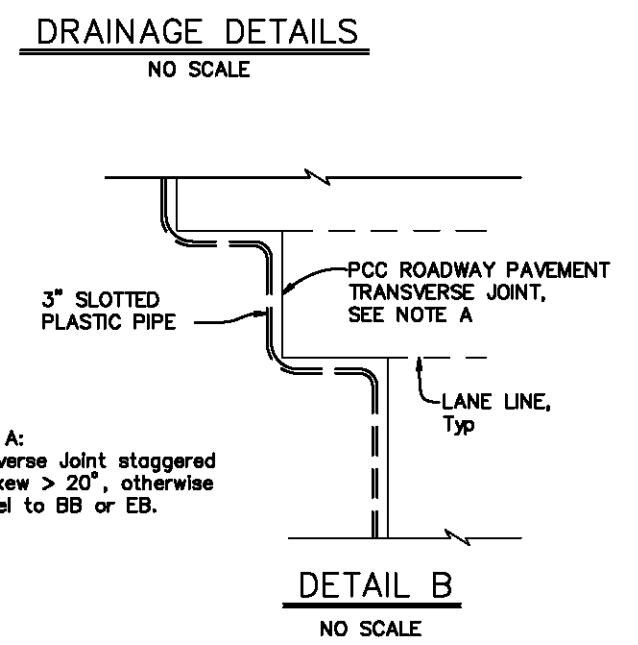
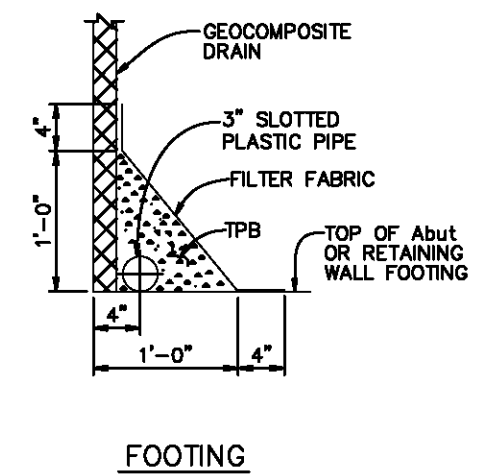
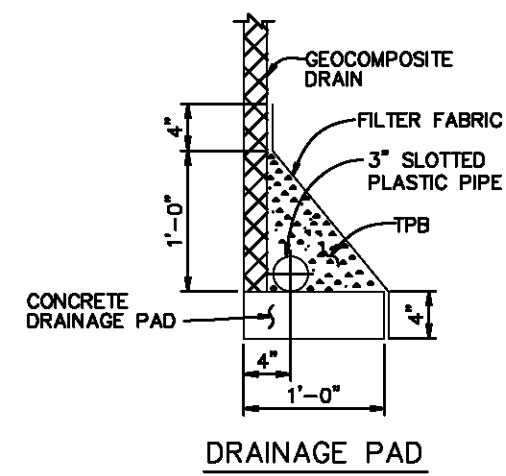
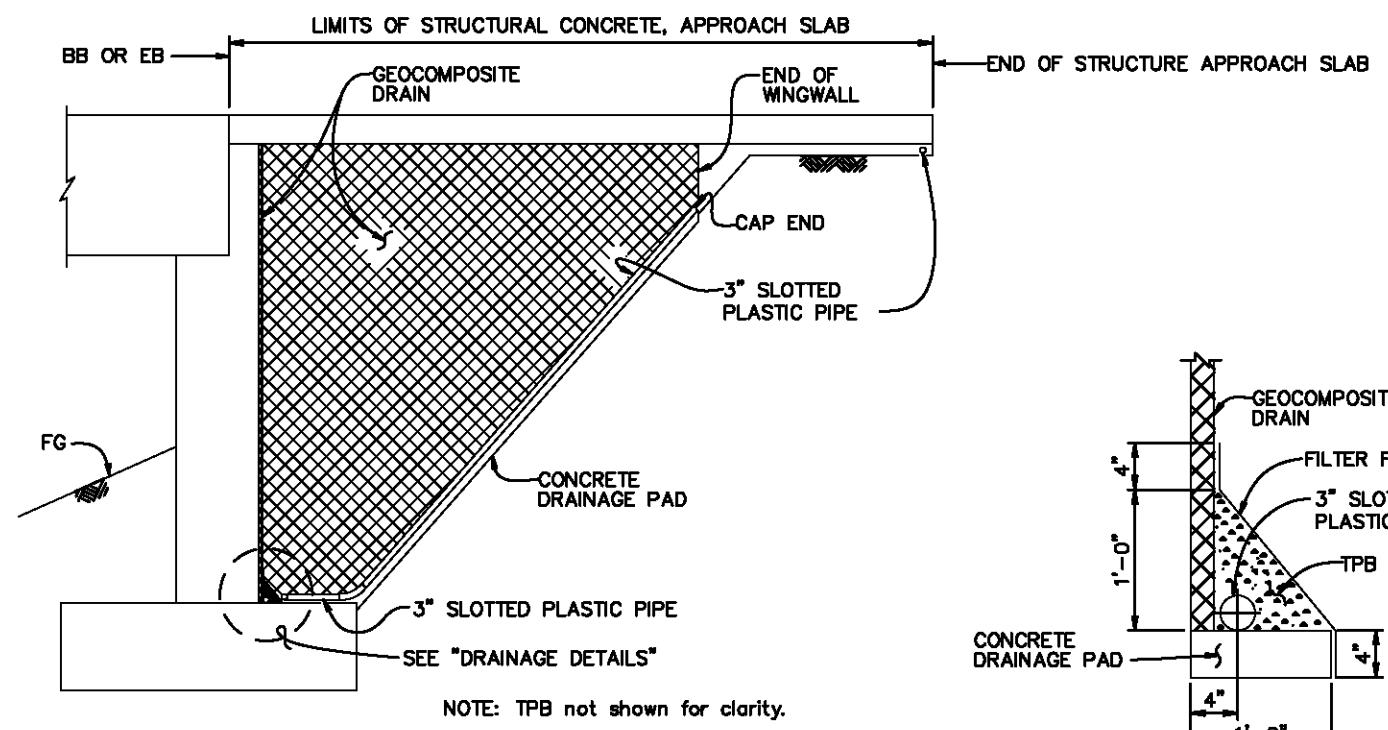
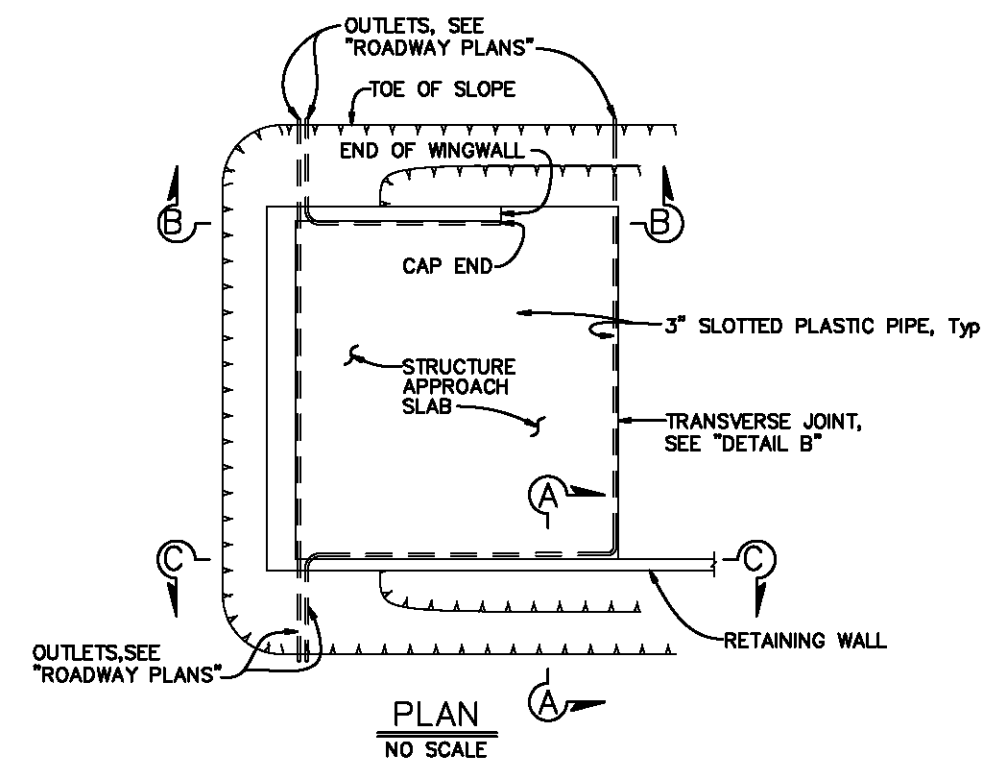
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	CR	---	48	49

REGISTERED CIVIL ENGINEER
 1/30/2018
 DATE

REGISTERED PROFESSIONAL ENGINEER
 Dustin W. Harrington
 No. C71517
 Exp. 12-31-19
 CIVIL
 STATE OF CALIFORNIA

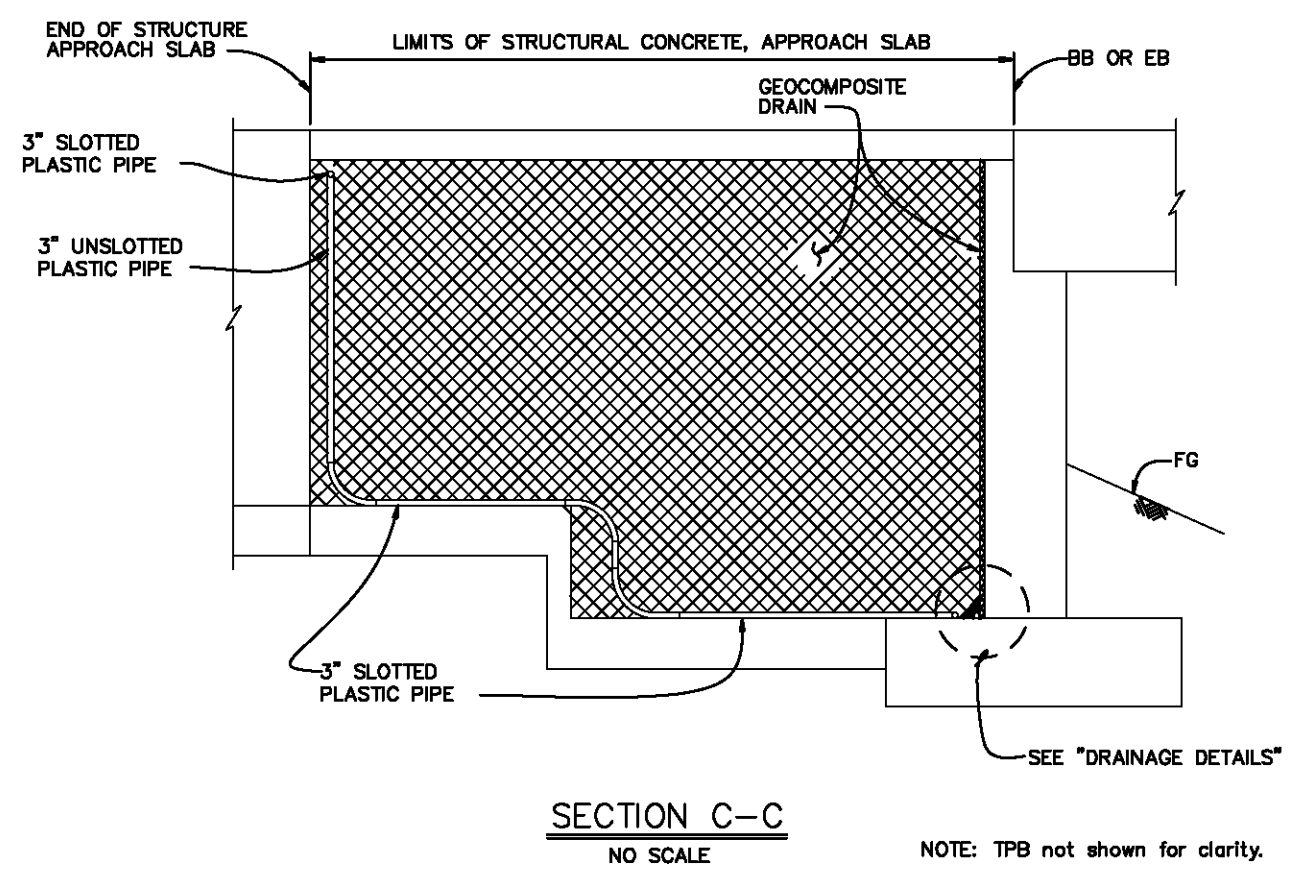
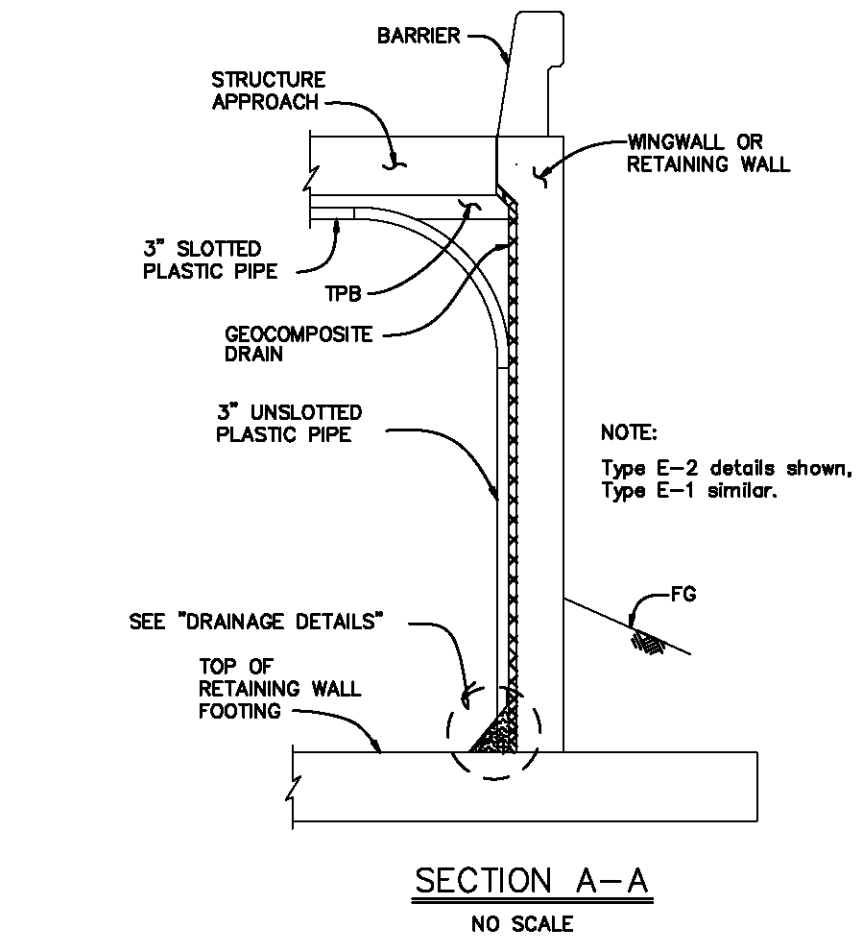
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

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



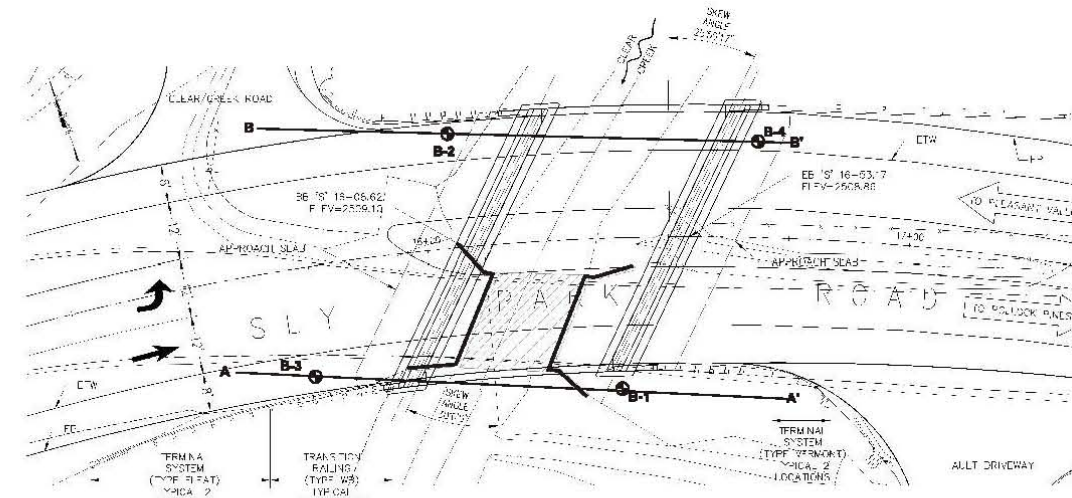
NOTE A:
Transverse Joint staggered for Skew > 20°, otherwise parallel to BB or EB.

- NOTES:
1. For structural approach and other details not shown, see other plan sheets.
 2. All bends in plastic pipe must have 3'-0" minimum radius. Plastic pipe used for bends is not required to be slotted.



BRIDGE STANDARD DETAILS		The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Officer, a registered civil engineer in the State of California.	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	SHEET S-14
x83-110					25C0144	
			UNIT: _____		POST MILE	CONTRACT NO.: _____
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			PROJECT NUMBER: 77115		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES
0 1 2 3						SHEET 48 OF 49

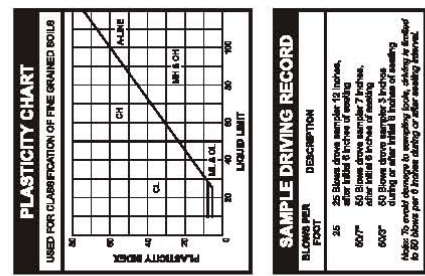
Note: The boring log indicates subsurface conditions only at the specific location and time noted. Subsurface conditions, including groundwater levels, at other locations of the subject site may differ significantly from conditions which, in the opinion of Youngdahl Consulting Group, Inc., exist at the sampling locations. Note, too, that the passage of time may affect conditions at the sampling locations.



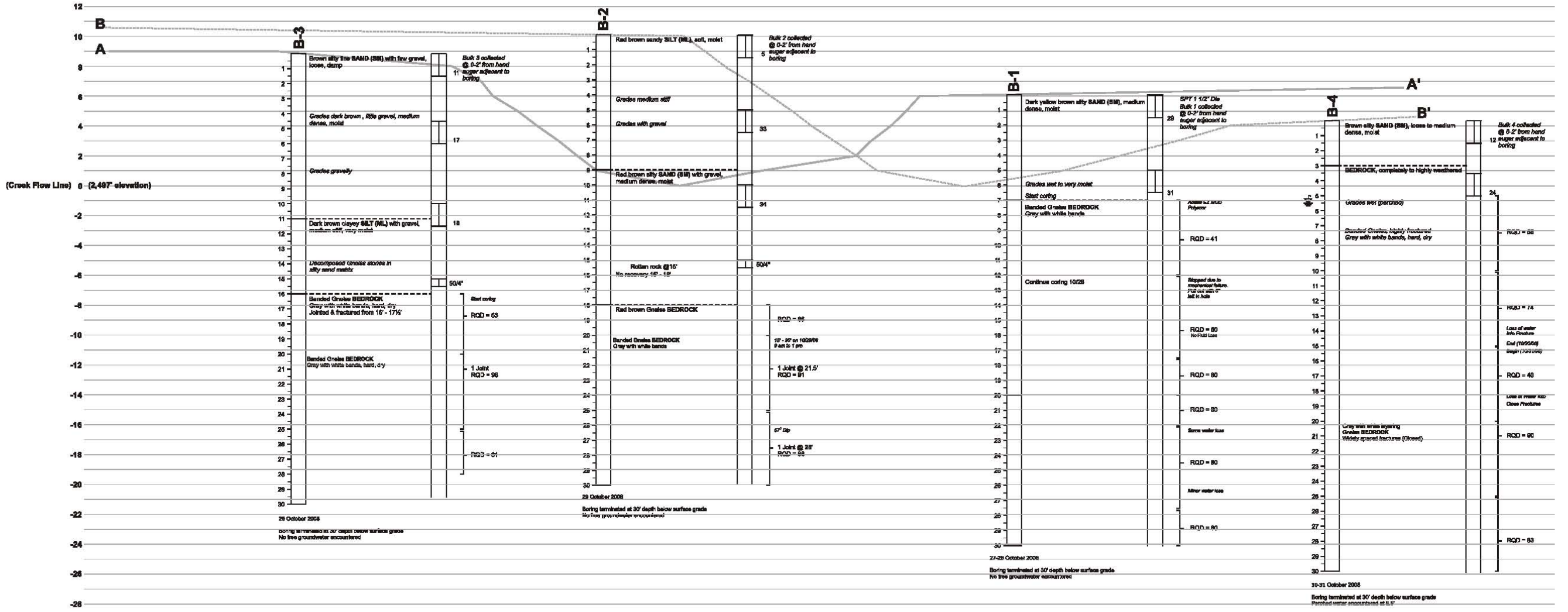
BASE MAP REF: El Dorado County Department Of Transportation, Sly Park Bridge Replacement at Clear Creek

SOIL GRAIN SIZE	
U.S. STANDARD SIEVE	NO. OF PARTICLES
BOULDER	100
COBBLE	4.75
GRAVEL	0.075
CLAY	0.002

KEY TO TEST DATA	
Water Seepage	Moisture Density Test
NPWE	No Free Water Encountered
RFWE	Free Water Encountered
DD	Dry Density (pcf)
LL	Liquid Limit (%)
PI	Plasticity Index
UCC	Unified Classification (ASTM D2487)
TVS	Pocket Tensile Shear
EI	Expansion Index (ASTM D4853)



UNIFIED SOIL CLASSIFICATION SYSTEMS	SYMBOLS	TYPICAL NAMES
GW	Coarse Grained	Well Graded Gravelly Sand
GP	Coarse Grained	Poorly Graded Gravelly Sand
GM	Fine Grained	Clayey Silty Sand
GC	Fine Grained	Silty Clay
SW	Fine Grained	Well Graded Silty Clay
SM	Fine Grained	Poorly Graded Silty Clay
SC	Fine Grained	Clayey Silty Clay
ML	Fine Grained	Low Plasticity Silty Clay
CL	Fine Grained	Low Plasticity Clay
MH	Fine Grained	High Plasticity Silty Clay
CH	Fine Grained	High Plasticity Clay
PT	Highly Organic	Peat



MARK	REVISIONS	DATE	CHKD
Δ	DESCRIPTION		
Δ			
Δ			

PROJECT ENGINEER: Victor Dumiao, P.E.
 DESIGNED BY: [Blank]
 DRAWN BY: Scott Youngdahl
 CHECKED BY: [Blank]

DATE: 12/08
 DATE: 12/08
 DATE: [Blank]



Project No.: E07057.010
 February 2009

SLY PARK BRIDGE
EXPLORATORY BORING LOG
 Sly Park Bridge Replacement at Clear Creek GES
 El Dorado County, California

S-15
 SHEET 49 OF 49