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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

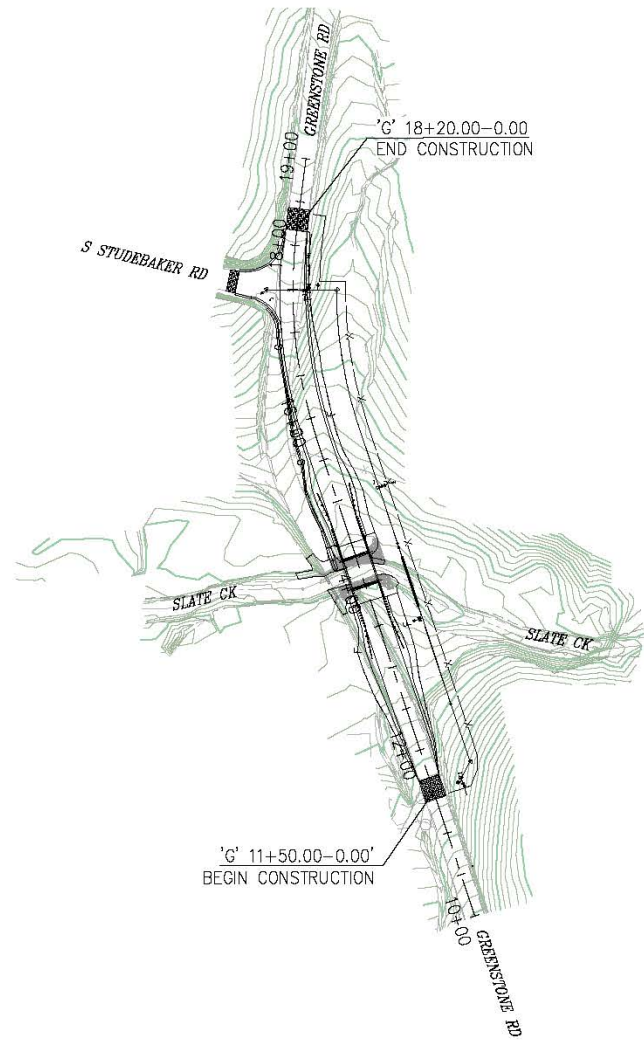


**COUNTY OF EL DORADO, CA
DEPARTMENT OF TRANSPORTATION**

**PROJECT PLANS FOR THE CONSTRUCTION OF
GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT**

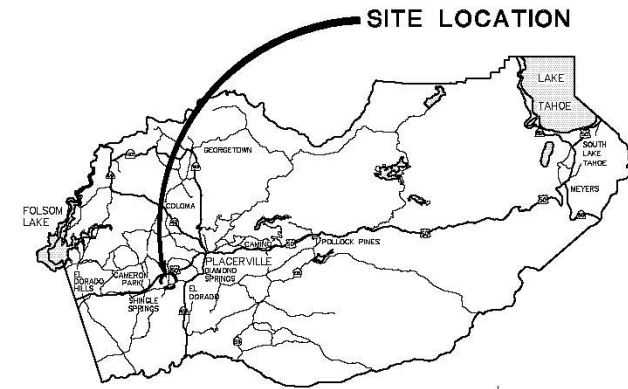
IN THE COUNTY OF EL DORADO, DISTRICT 3 & 4
APPROX. 0.85 MILES SOUTH OF THE U.S. HWY 50/GREENSTONE RD INTERCHANGE

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.

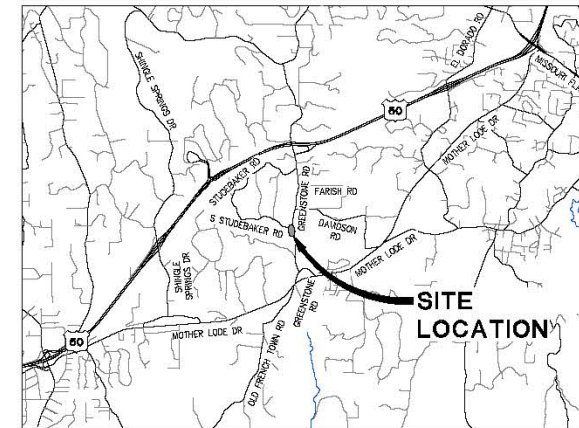


SITE PLAN

SCALE: 1"=100'



VICINITY MAP
COUNTY OF EL DORADO



LOCATION MAP

NOT TO SCALE

SUBMITTED BY: _____ DATE _____
CIVIL ENGINEER
STATE OF CALIFORNIA NO. _____

EL DORADO IRRIGATION DISTRICT

APPROVED BY: _____ DATE _____
PROJECT NO. _____ WORK ORDER NO. _____ DRAWING NO. _____

BOARD OF SUPERVISORS

I	JOHN HIDAHL
II	SHIVA FRENTZEN
III	BRIAN VEERKAMP
IV	LORI PARLIN
V	SUE NOVASEL

**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

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

ADOPTED AND APPROVED BY:

SUE NOVASEL CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS	DATE _____
APPROVED BY:	DATE _____
RAFAEL MARTINEZ, DIRECTOR DEPARTMENT OF TRANSPORTATION	DATE _____
MATTHEW D. BAYLIS, P.E., P.S., C.E.B.S.Z. DEPUTY DIRECTOR, ENGINEERING	DATE _____

CONTRACT NO. 3605 CIP NO. 77137

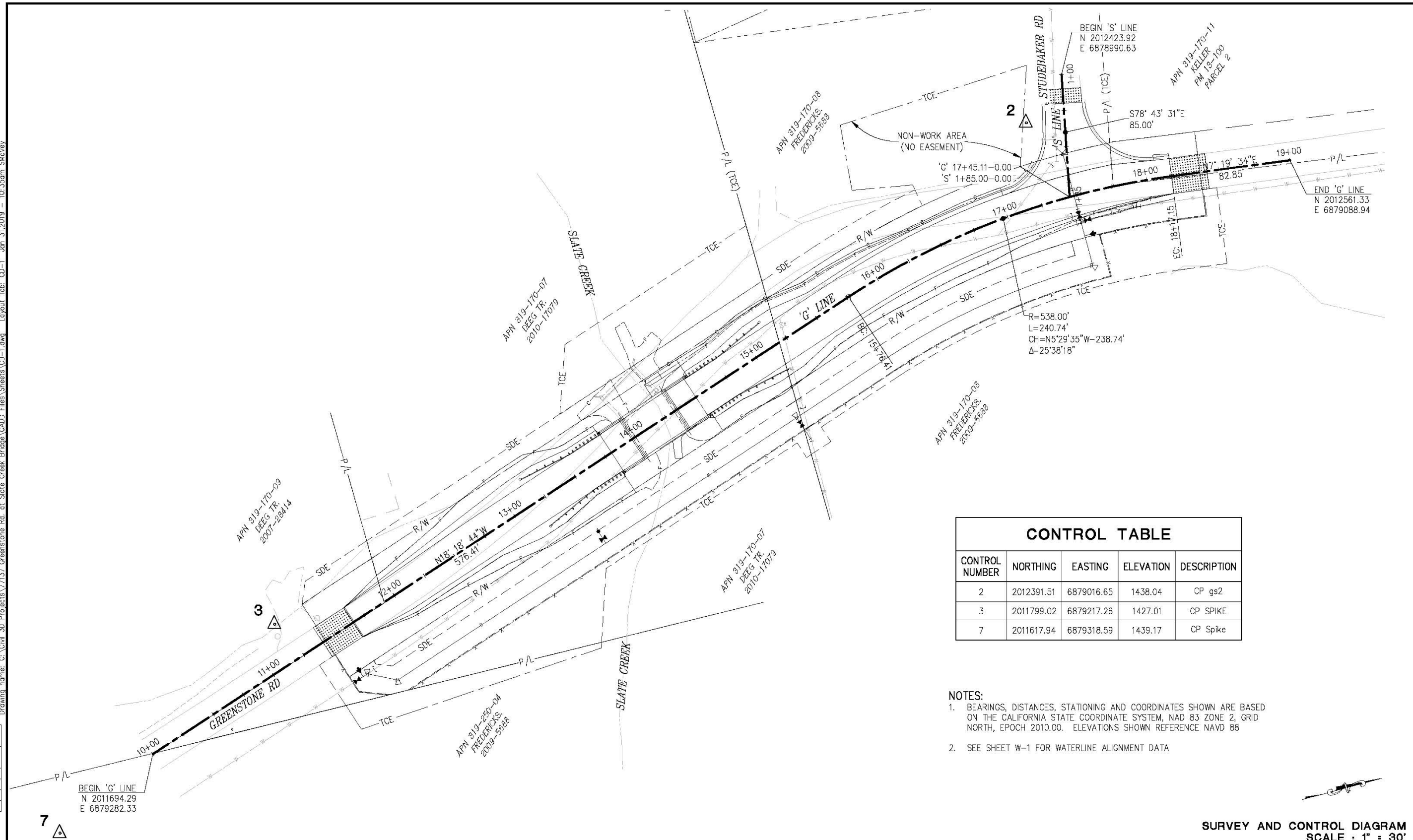
**GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT**

TITLE SHEET

SHEET 1 OF 30

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77137_Greenstone Rd. at Slate Creek Bridge\CADD Files\Sheets\CD-1.dwg Layout Tab: CD-1 Jan 31, 2019 - 10:35am SlicView

FOR REDUCED PLANS
 0 1 2



CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
2	2012391.51	6879016.65	1438.04	CP gs2
3	2011799.02	6879217.26	1427.01	CP SPIKE
7	2011617.94	6879318.59	1439.17	CP Spike

NOTES:
 1. BEARINGS, DISTANCES, STATIONING AND COORDINATES SHOWN ARE BASED ON THE CALIFORNIA STATE COORDINATE SYSTEM, NAD 83 ZONE 2, GRID NORTH, EPOCH 2010.00. ELEVATIONS SHOWN REFERENCE NAVD 88
 2. SEE SHEET W-1 FOR WATERLINE ALIGNMENT DATA

SURVEY AND CONTROL DIAGRAM
 SCALE : 1" = 30'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 PROFESSIONAL LAND SURVEYOR
 DATE: _____

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: JIN
 DATE: 01/30/19
 ROAD NUMBER: 007

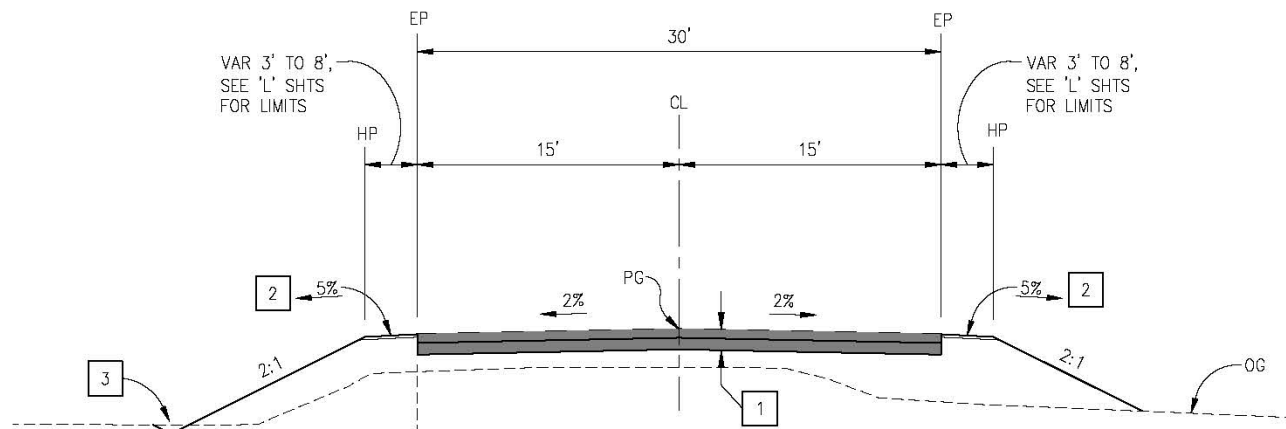


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET
CD-1
 2 OF 30
 CP No. **77137**

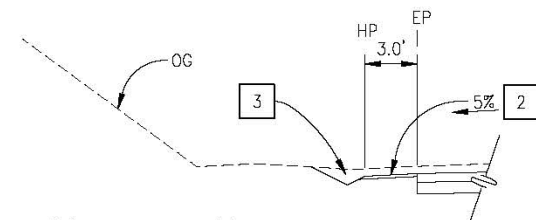
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 FOR REDUCED PLANS
 2
 1
 0



'G' 14+53.00 TO 'G' 16+45.00 LT

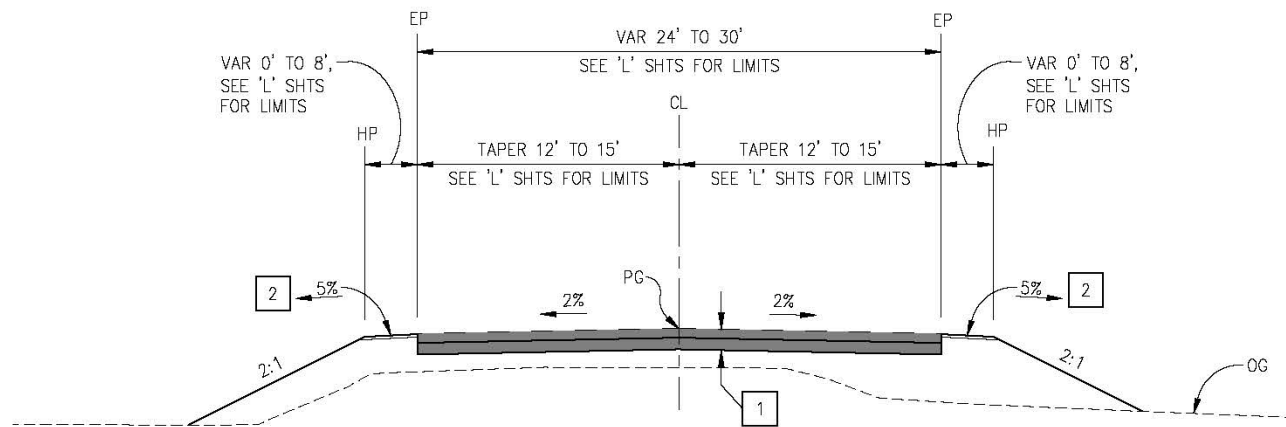
'G' 14+53.00 TO 'G' 17+12.00

SEE SHT 'L-3' FOR S. STUDEBAKER INTERSECTION

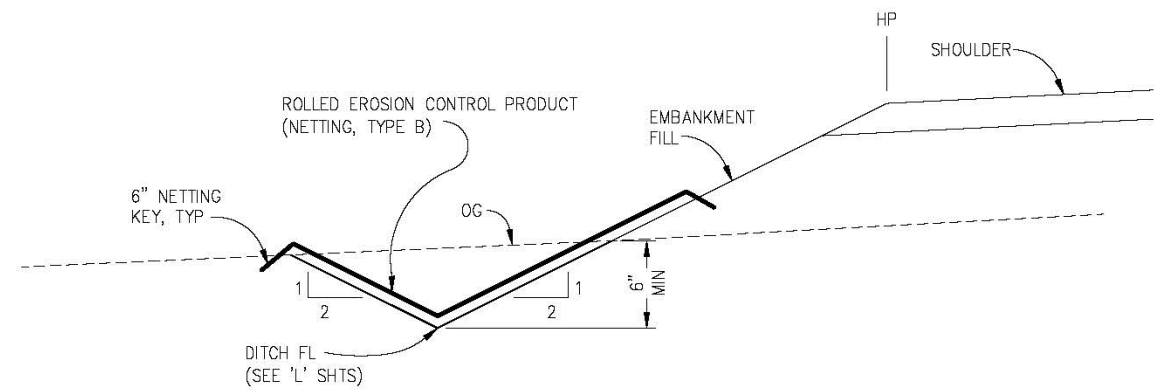


'G' 16+45.00 TO 'G' 17+02.07 LT

SEE SHT 'L-3' FOR S. STUDEBAKER INTERSECTION



'G' 11+66.00 TO 'G' 14+53.00

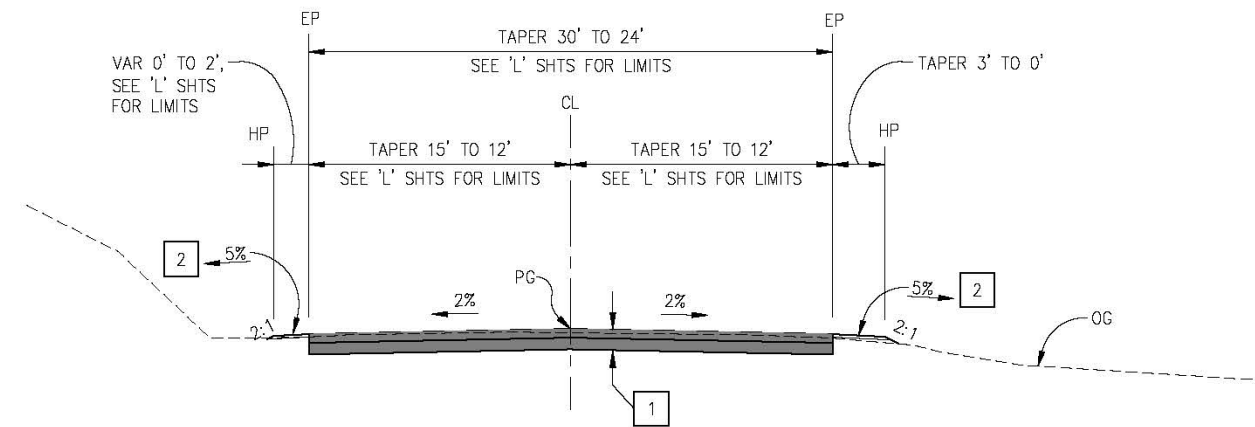


V-DITCH

NTS

CONSTRUCTION NOTES:

- 1 — 6" HMA (TYPE A)
8" AB (CLASS 2)
- 2 — SHOULDER BACKING
(THICKNESS=0.17' MIN)
- 3 — V-DITCH, SEE DETAIL
THIS SHEET



'G' 17+12.00 TO 'G' 18+17.15

TYPICAL SECTIONS
SCALE : NONE

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE: _____

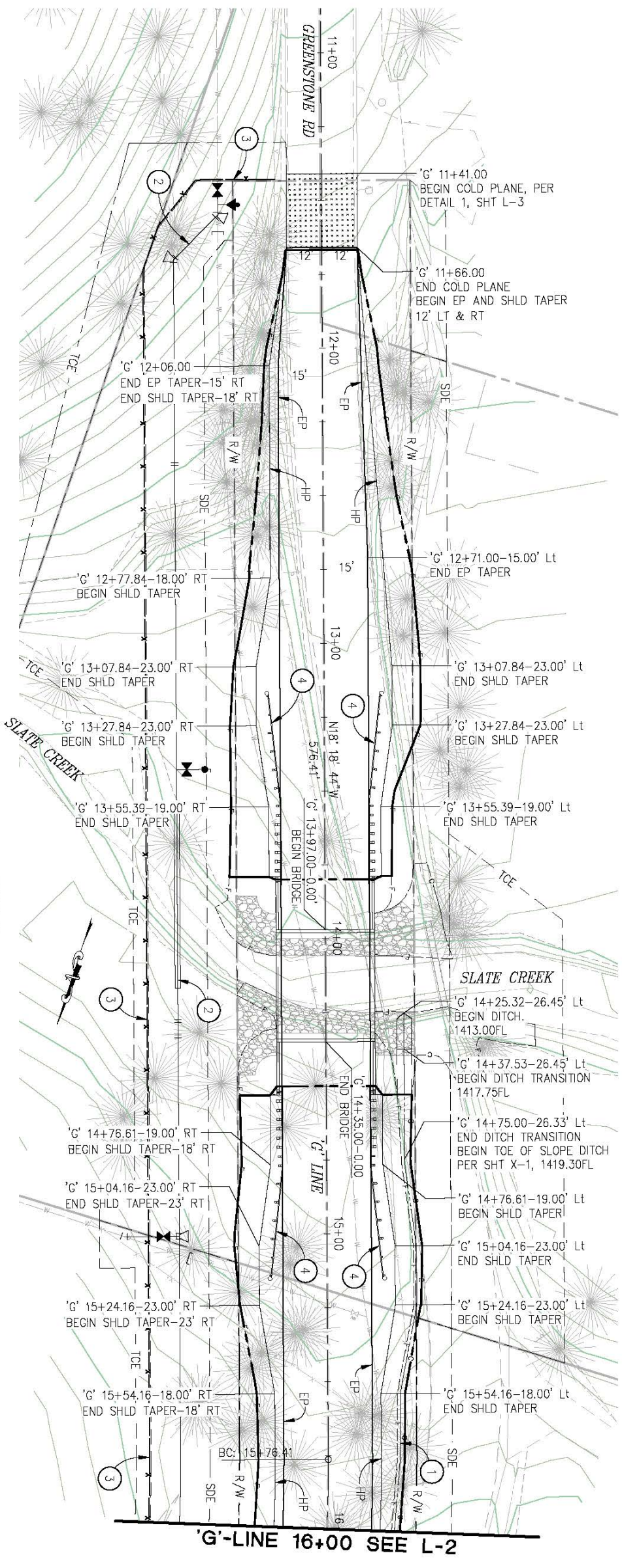
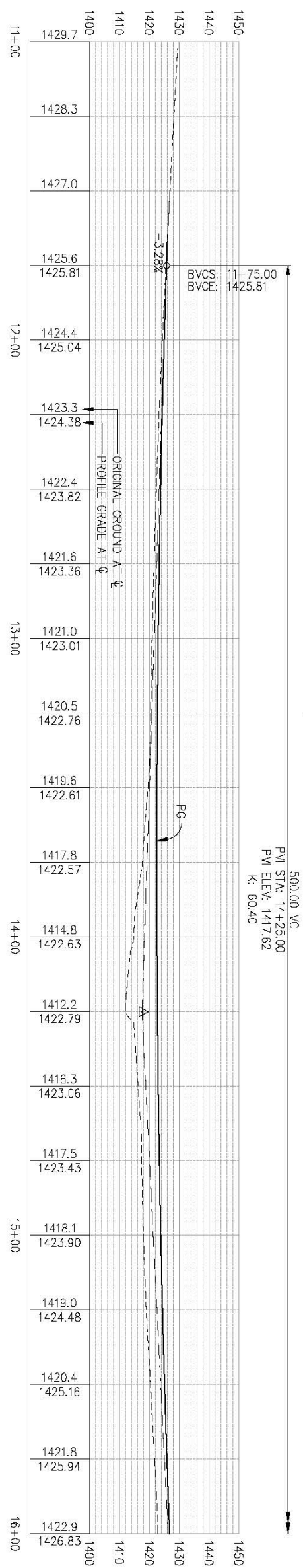
DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 01/30/19
 ROAD NUMBER: 007



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
 BRIDGE REPLACEMENT

SHEET
X-1
 3 OF 30
 CIP No. **77137**

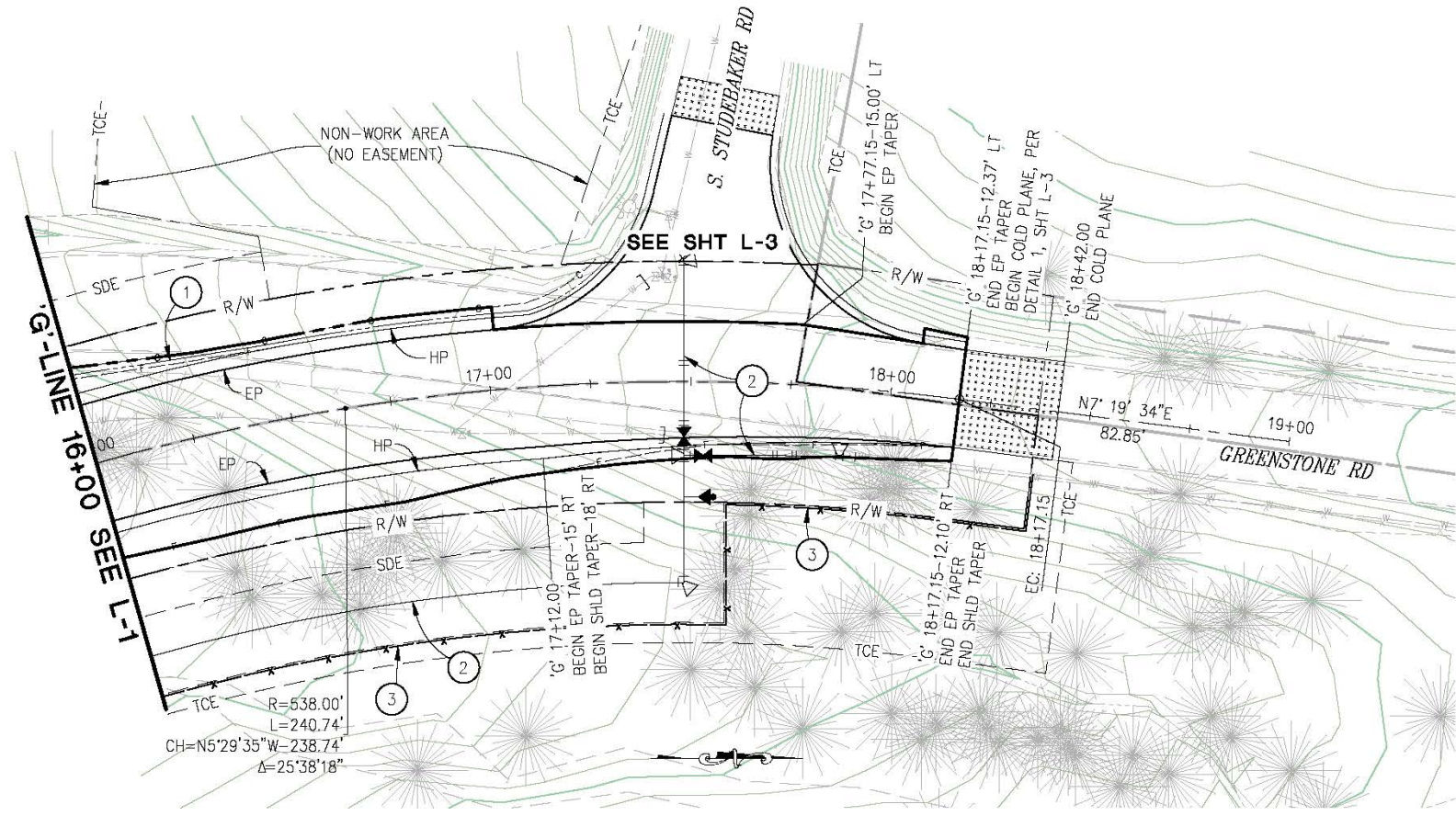


'G'-LINE 16+00 SEE L-2

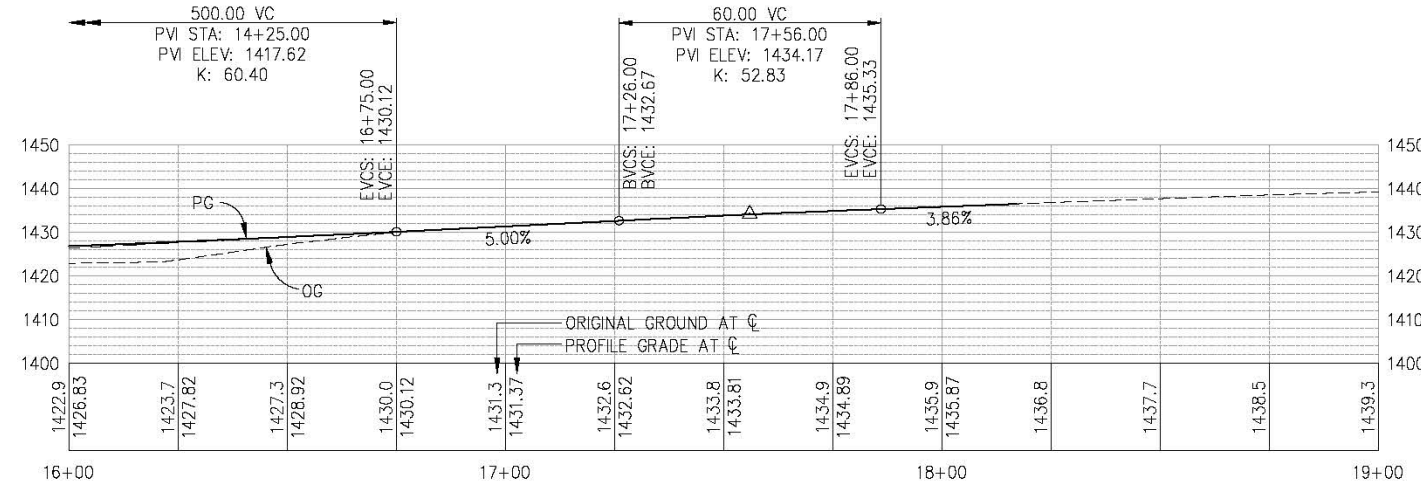
GENERAL NOTES:

CONSTRUCTION NOTES:

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 FOR REDUCED PLANS
 REVISION



- CONSTRUCTION NOTES:**
- ① — TOE OF SLOPE DITCH, SEE SHT X-1
 - ② — SEE 'W' SHEETS FOR WATERLINE RELOCATION
 - ③ — FENCE LAYOUT, SEE SHT C-1



LAYOUT-GREENSTONE RD
SCALE: 1" = 20' H,V

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 01/30/19
 ROAD NUMBER: 007

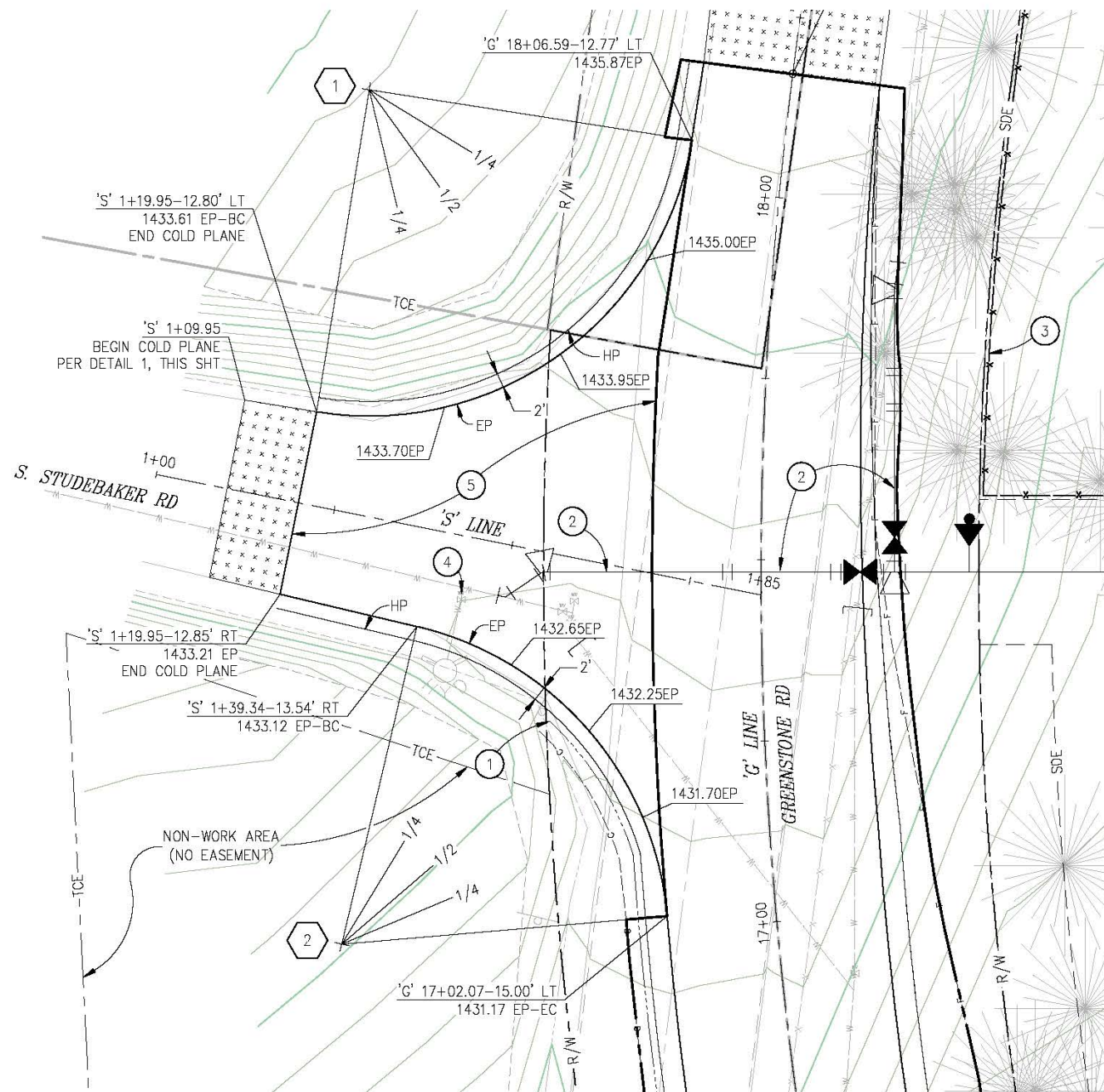


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET
L-2
5 OF 30
CF No. 77137

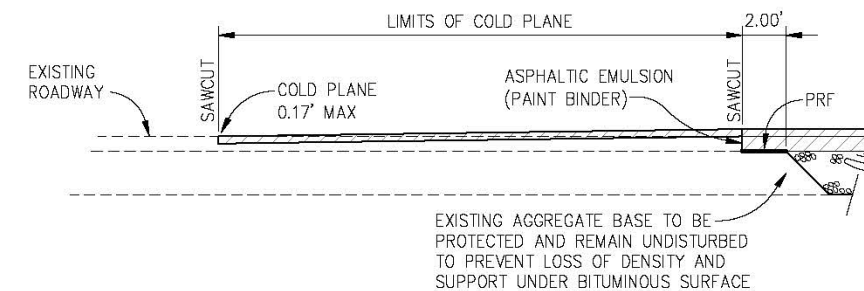
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 FOR REDUCED PLANS
 0 1 2



INTERSECTION CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'G' 18+08.48-57.72 Lt 'S' 1+18.40-57.77 Lt	71.03	45 TO EP	90°26'30"	N54°04'52"E 63.88
2	'G' 17+02.07-60.00 Lt 'S' 1+37.73-58.51 Rt	56.35	45 TO EP	71°45'03"	N40°48'20"W 52.74

CONSTRUCTION NOTES:

- 1 - 'G' 17+28.80-29.55' LT, END TOE OF SLOPE DITCH, SEE SHT X-1 FOR DETAILS
- 2 - SEE 'W' SHEETS FOR WATERLINE RELOCATION
- 3 - FENCE LAYOUT, SEE SHT C-1
- 4 - RAISE VALVE COVER TO GRADE
- 5 - 3" HMA (TYPE A) OVER 8" AB (CLASS 2)



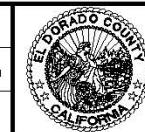
1 COLD PLANE DETAIL
NTS

LAYOUT-S. STUDEBAKER RD
SCALE : 1" = 10'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
DATE:

DESIGNED: ZO
DRAWN: SGM
CHECKED: CG
DATE: 01/30/19
ROAD NUMBER: 007

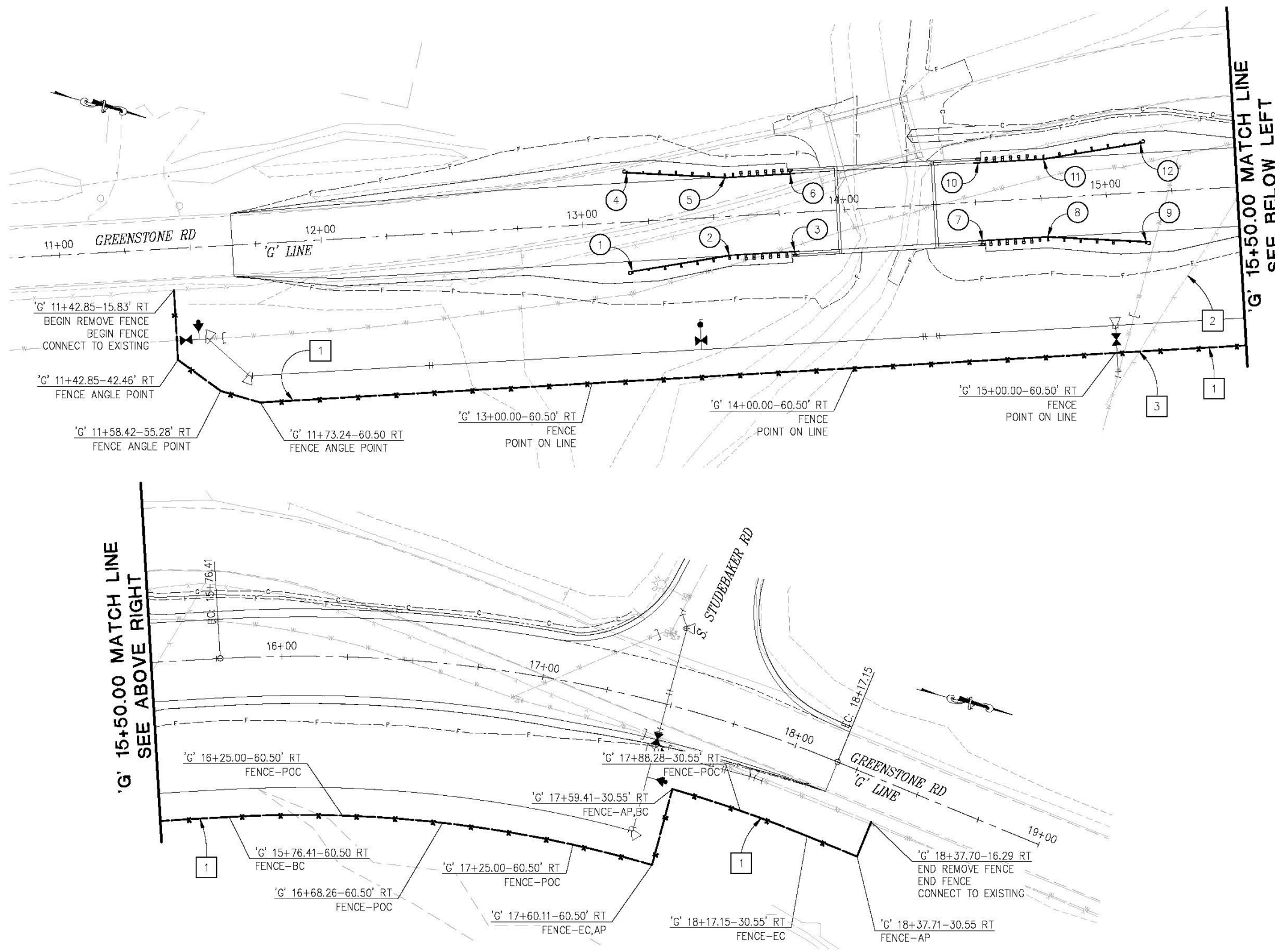


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET
L-3
6 OF 30
CF No. **77137**

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



GUARDRAIL CONSTRUCTION NOTES:

STATIONS AND OFFSETS ARE TO CENTER OF POST AT OUTSIDE FACE OF RAIL ELEMENT

- ① - 'G' 13+17.81-18.75 RT BEGIN TERMINAL SYSTEM, TYPE SRT-350
- ② - 'G' 13+55.12-14.75 RT END TERMINAL SYSTEM BEGIN TRANSITION RAILING, TYPE WB-31
- ③ - 'G' 13+80.12-14.75 RT END TRANSITION RAILING
- ④ - 'G' 13+17.81-18.75 LT BEGIN TERMINAL SYSTEM, TYPE SRT-350
- ⑤ - 'G' 13+55.12-14.75 LT END TERMINAL SYSTEM BEGIN TRANSITION RAILING, TYPE WB-31
- ⑥ - 'G' 13+80.12-14.75 LT END TRANSITION RAILING
- ⑦ - 'G' 14+51.88-14.75 RT BEGIN TRANSITION RAILING, TYPE WB-31
- ⑧ - 'G' 14+76.89-14.75 RT END TRANSITION RAILING, TYPE WB-31 BEGIN TERMINAL SYSTEM, SRT-350
- ⑨ - 'G' 15+14.19-18.75 RT END TERMINAL SYSTEM
- ⑩ - 'G' 14+51.88-14.75 LT BEGIN TRANSITION RAILING, TYPE WB-31
- ⑪ - 'G' 14+76.89-14.75 LT END TRANSITION RAILING, TYPE WB-31 BEGIN TERMINAL SYSTEM, SRT-350
- ⑫ - 'G' 15+14.19-18.75 LT END TERMINAL SYSTEM

FENCE CONSTRUCTION NOTES:

- ① - FENCE (TYPE WM, WOOD POST) PER A86
- ② - REMOVE EXISTING FENCE
- ③ - CONNECT TO EXISTING FENCE 'G' 15+09.10-60.50 RT

**CONSTRUCTION DETAILS
 GUARDRAIL AND FENCING PLAN
 SCALE : 1" = 20'**

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 01/30/19
DATE:	ROAD NUMBER: 007	

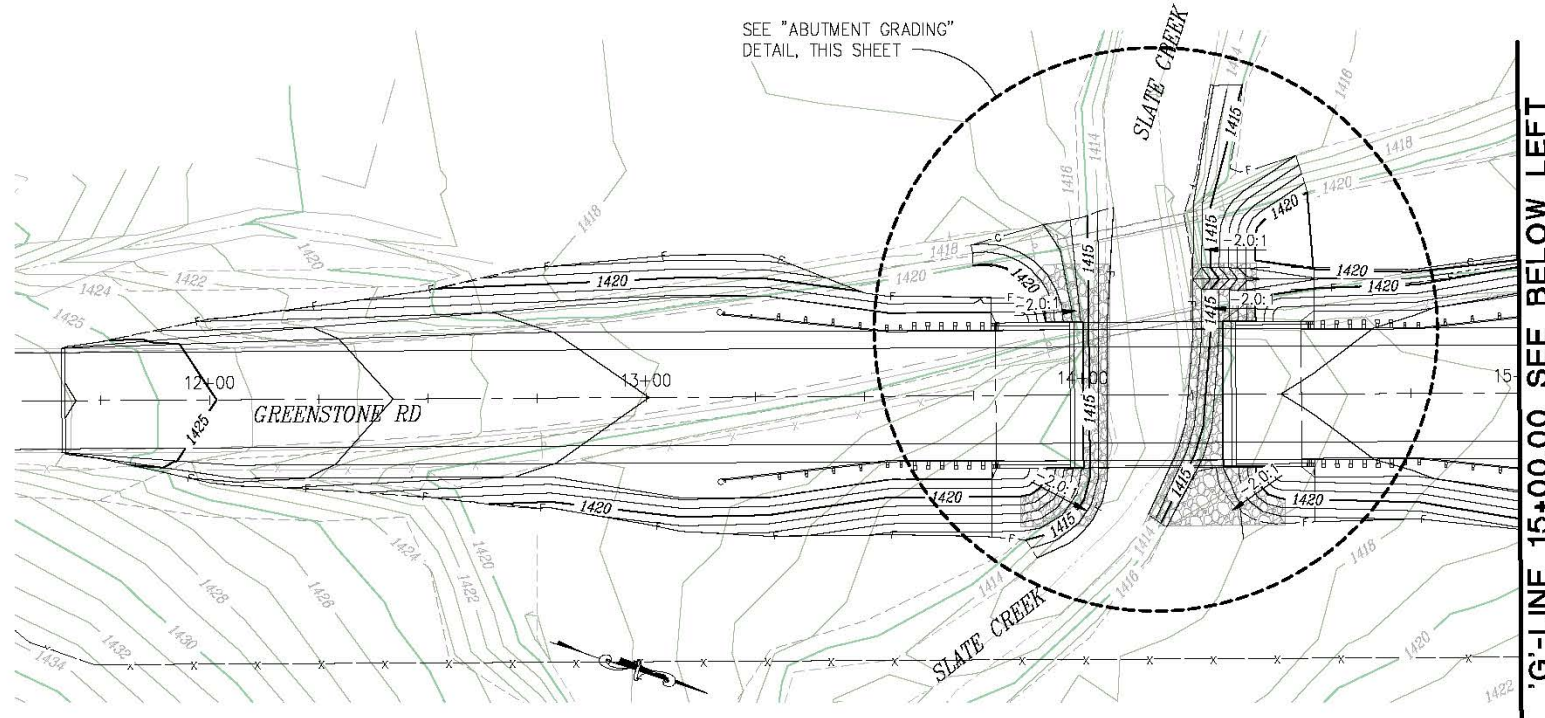


**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

**GREENSTONE RD AT SLATE CREEK
 BRIDGE REPLACEMENT**

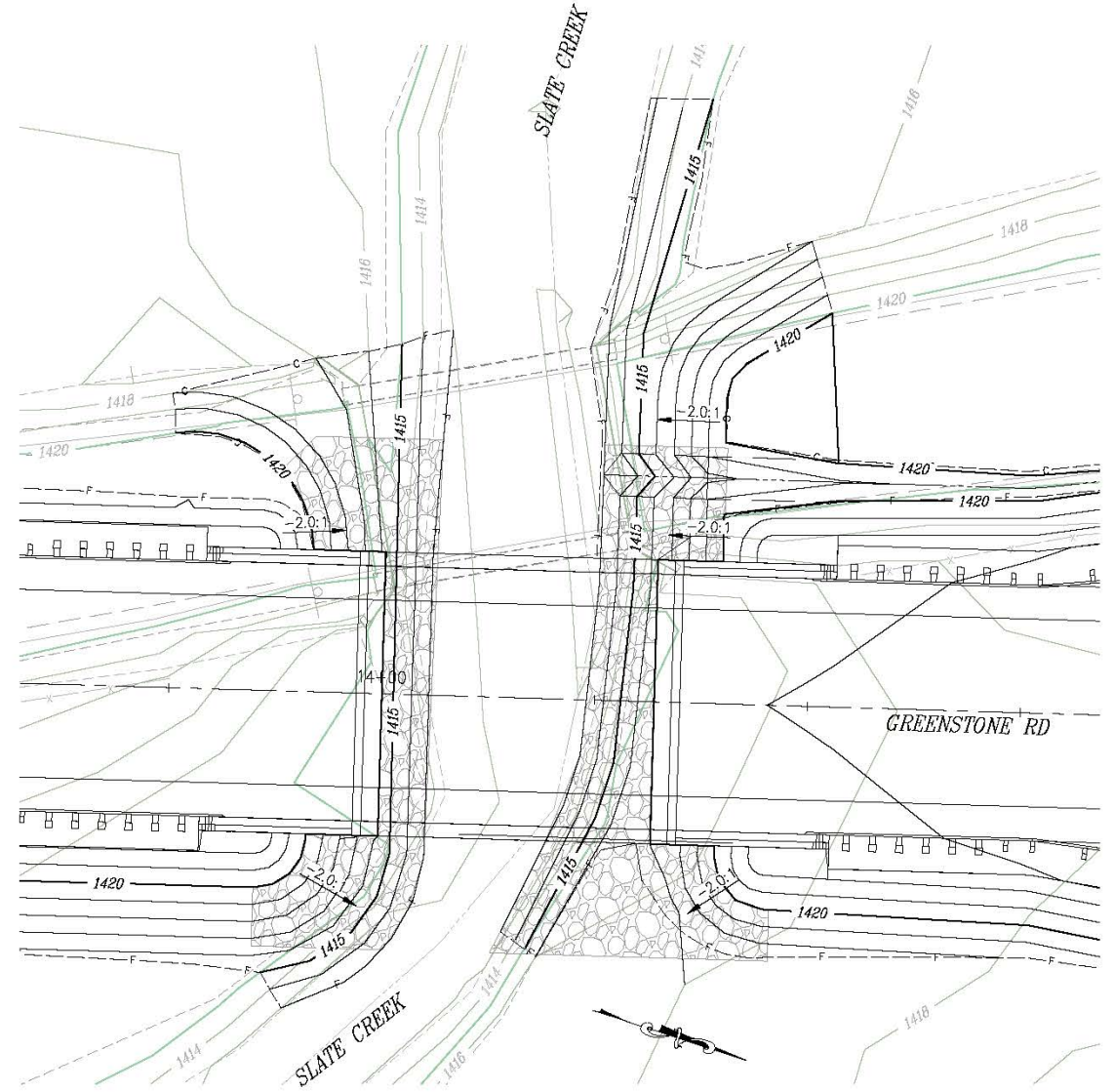
SHEET	C-1
7 OF 30	
CP No.	77137

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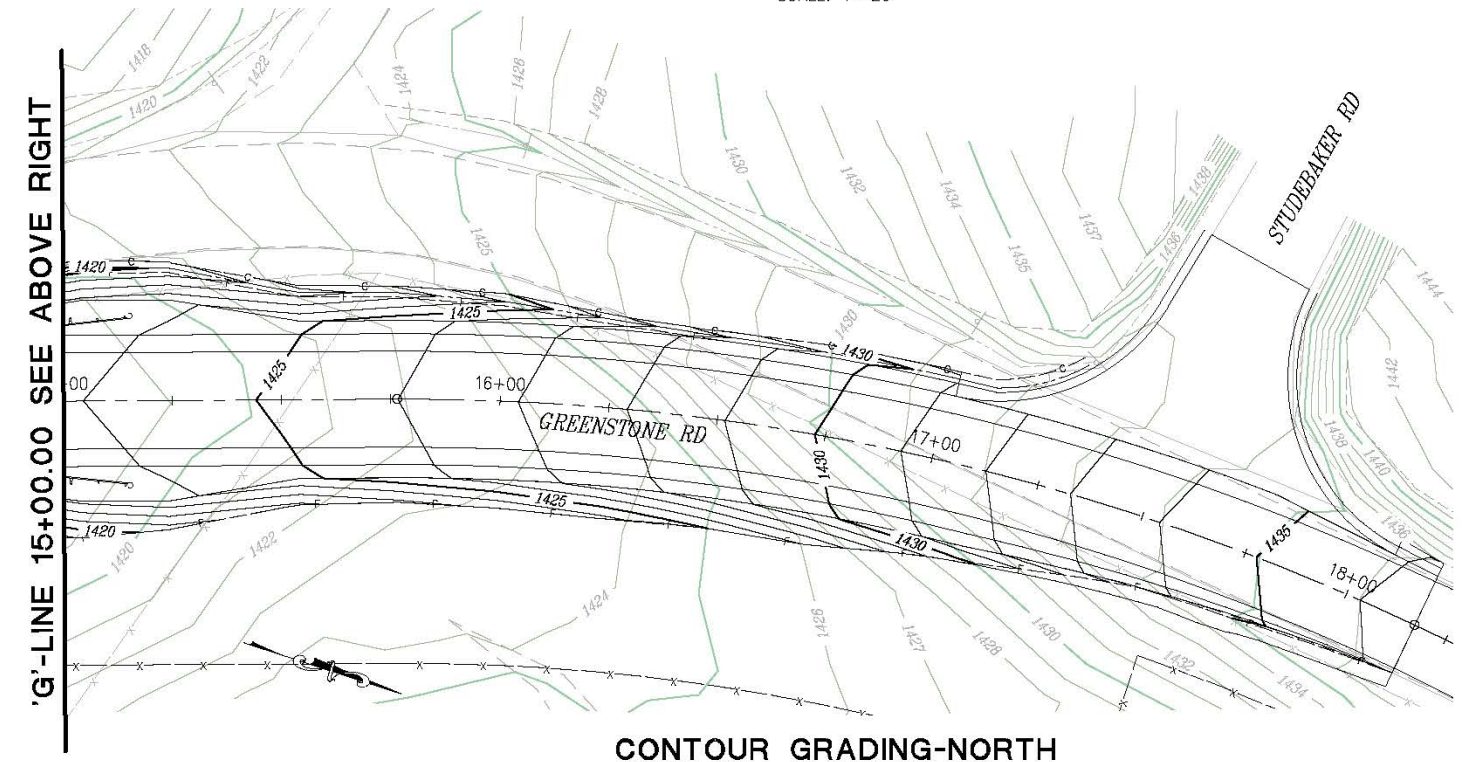


CONTOUR GRADING-SOUTH
SCALE: 1"=20'

'G'-LINE 15+00.00 SEE BELOW LEFT



ABUTMENT GRADING
SCALE: 1"=10'



CONTOUR GRADING-NORTH
SCALE: 1"=20'

CONTOUR GRADING PLAN
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE:

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 01/30/19
 ROAD NUMBER: 007

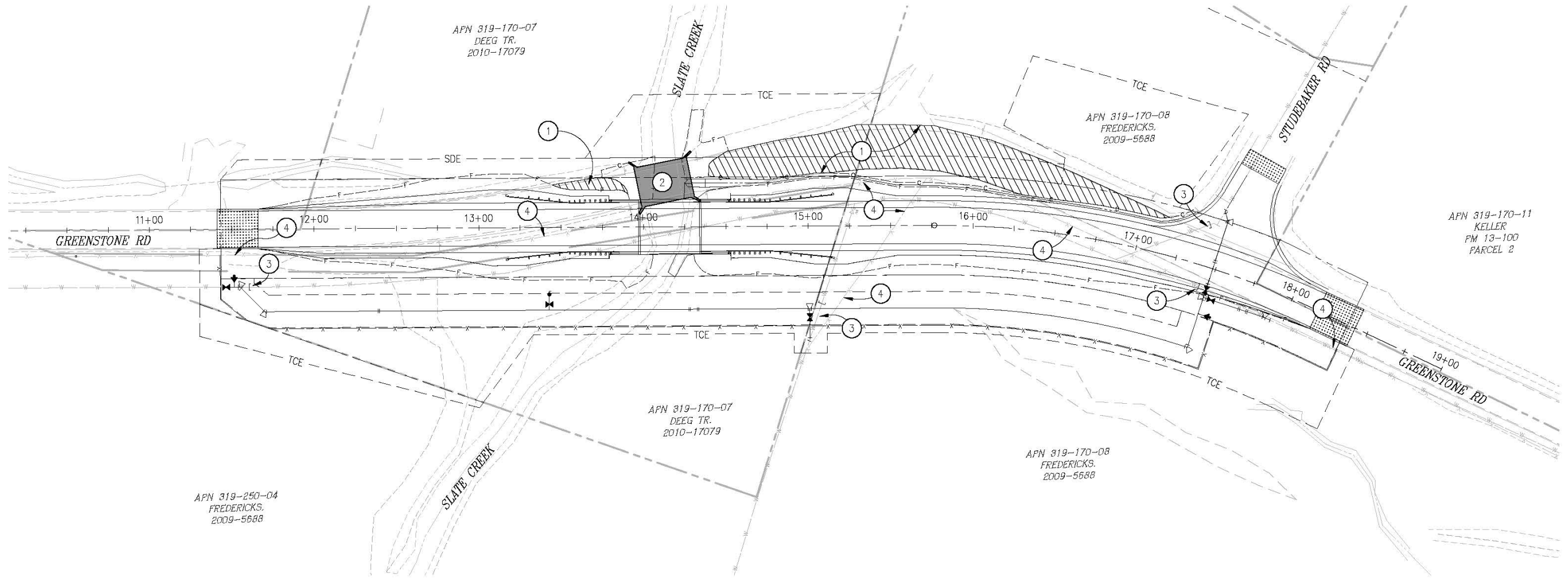


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET
G-1
8 OF 30
CF No. **77137**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 0 1 2



CONSTRUCTION NOTES:

- ① — OBLITERATE ROADWAY
- ② — REMOVE BRIDGE
- ③ — ABANDON WATERLINE
(SEE 'W' SHEETS)
- ④ — REMOVE BARBWIRE FENCE (±655 LF)
SEE SHT C-1 FOR BEGIN AND END LIMITS



DEMOLITION PLAN
SCALE : 1" = 30'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF : REGISTERED CIVIL ENGINEER DATE:	DESIGNED: ZO DRAWN: SGM CHECKED: CG DATE: 01/30/19 ROAD NUMBER: 007
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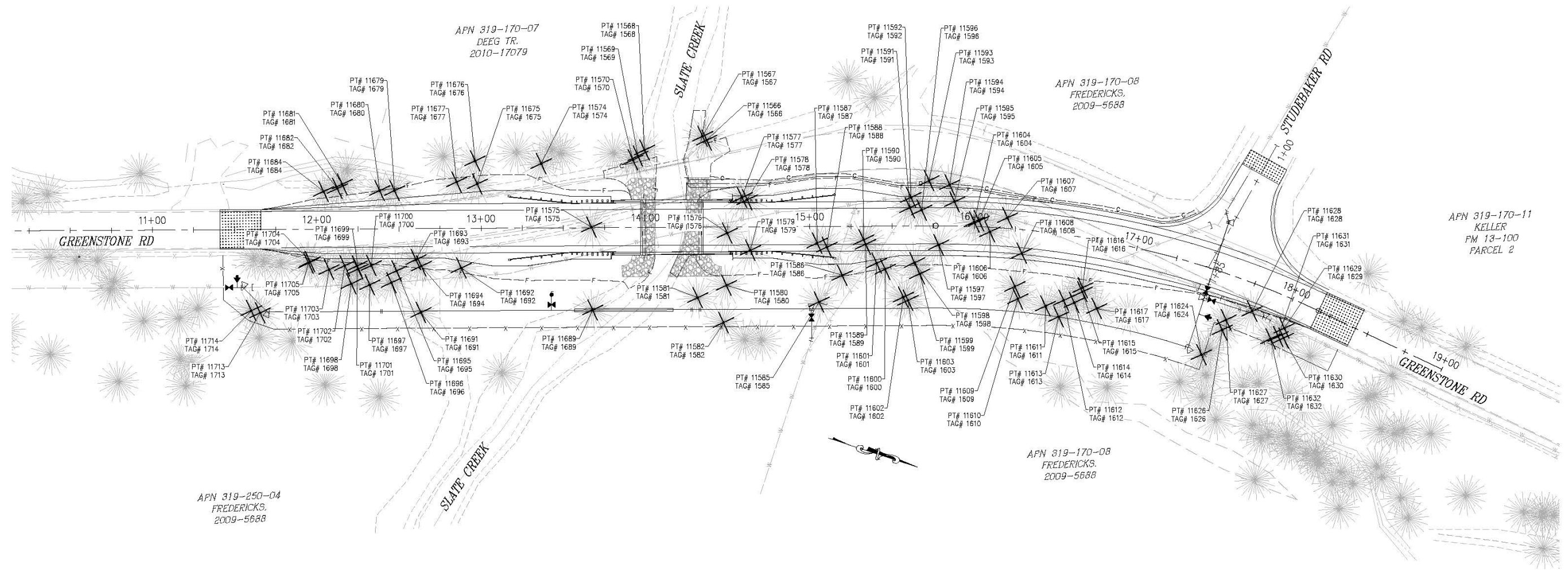


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET	DM-1
9 OF 30	
CIP No.	77137

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 2
 1
 0



GENERAL NOTES:

- SEE SHT TR-2 FOR TREE REMOVAL TABLE


LEGEND:



**TREE REMOVAL PLAN
SCALE : 1" = 30'**

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 01/30/19
DATE:	ROAD NUMBER: 007	



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

**GREENSTONE RD AT SLATE CREEK
 BRIDGE REPLACEMENT**

SHEET	TR-1
10 OF 30	
CIP No.	77137

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77137\Greenstone Rd. at Slate Creek Bridge\CADD Files\Sheets\TR-1.dwg Layout Tab: TR-2 Jan 31, 2019 - 10:20am SlicView
 FOR REDUCED PLANS
 0 1 2

TREE REMOVAL TABLE				
POINT	TAG NUMBER	STATION	OFFSET	DESCRIPTION
11566	1566	17+58.28	51.65' RT	0.41Ø OAK
11567	1567	13+99.59	47.06' LT	0.51Ø OAK
11568	1568	14+37.46	52.85' LT	0.51Ø OAK
11569	1569	14+34.95	55.19' LT	0.51Ø OAK
11570	1570	13+95.55	43.44' LT	0.51Ø OAK
11574	1574	13+92.52	41.08' LT	0.45Ø & 0.41Ø OAK FORKED
11575	1575	13+36.68	39.14' LT	1.91Ø OAK
11576	1576	13+67.03	0.32' RT	2.61Ø OAK
11577	1577	14+49.64	3.67' RT	0.67Ø PINE
11578	1578	14+58.78	17.88' LT	1.69Ø OAK
11579	1579	14+61.91	16.49' LT	1.59Ø OAK
11580	1580	14+63.65	14.23' RT	1.97Ø OAK
11581	1581	14+48.99	35.45' RT	2.83Ø OAK
11582	1582	14+31.44	42.91' RT	1.59Ø PINE
11585	1585	14+47.03	58.06' RT	0.99Ø OAK
11586	1586	15+05.25	45.86' RT	1.18Ø OAK
11587	1587	15+19.52	29.81' RT	1.56Ø & 0.86 Ø OAK FORKED
11588	1588	15+04.30	10.09' RT	1.15Ø OAK
11589	1589	15+10.21	12.61' RT	1.43Ø OAK
11590	1590	15+33.81	10.95' RT	1.34Ø OAK
11591	1591	15+32.63	8.23' RT	0.60Ø OAK
11592	1592	15+60.84	11.11' LT	0.86Ø OAK
11593	1593	15+61.58	17.36' LT	2.58Ø OAK
11594	1594	15+72.61	27.49' LT	1.02Ø OAK (DEAD)
11595	1595	15+84.75	24.98' LT	0.99Ø & 1.46Ø OAK FORKED
11596	1596	15+87.72	14.71' LT	0.32Ø , 0.57Ø , 0.64Ø OAK CLUSTER
11597	1597	15+68.01	9.68' LT	1.91Ø & 1.69Ø OAK FORKED
11598	1598	15+78.27	11.59' RT	1.21Ø OAK
11599	1599	15+63.49	22.31' RT	4.62Ø OAK
11600	1600	15+66.63	29.12' RT	1.56Ø OAK

TREE REMOVAL TABLE				
POINT	TAG NUMBER	STATION	OFFSET	DESCRIPTION
11601	1601	15+45.61	26.17' RT	1.11Ø OAK
11602	1602	15+40.41	22.50' RT	2.04Ø & 1.62Ø OAK FORKED
11603	1603	15+56.51	43.24' RT	1.21Ø OAK
11604	1604	15+59.38	45.16' RT	0.67Ø OAK
11605	1605	15+99.84	2.82' LT	0.95Ø OAK
11606	1606	16+02.68	3.49' LT	0.70Ø OAK
11607	1607	16+09.66	2.78' RT	2.10Ø OAK
11608	1608	16+19.71	6.41' LT	0.92Ø OAK
11609	1609	16+30.31	14.34' RT	2.86Ø & 2.04Ø OAK FORKED
11610	1610	16+27.83	34.81' RT	1.75Ø OAK
11611	1611	16+30.52	42.15' RT	3.34Ø OAK
11612	1612	16+49.26	44.64' RT	0.64Ø OAK
11613	1613	16+60.60	39.62' RT	0.92Ø OAK
11614	1614	16+58.92	49.95' RT	1.24Ø & 2.20Ø OAK FORKED
11615	1615	16+67.72	40.01' RT	0.70Ø OAK
11616	1616	16+71.75	32.68' RT	0.51Ø OAK
11617	1617	16+71.50	30.10' RT	1.27Ø OAK
11624	1624	16+82.98	41.04' RT	1.02Ø OAK
11626	1626	17+65.76	33.22' RT	0.67Ø OAK
11627	1627	17+65.95	26.72' RT	0.76Ø OAK
11628	1628	17+79.48	16.15' RT	1.85Ø PINE
11629	1629	18+02.26	18.22' RT	1.62Ø PINE
11630	1630	18+04.35	23.81' RT	1.05Ø OAK
11631	1631	18+00.79	24.36' RT	0.70Ø OAK
11632	1632	17+96.93	27.48' RT	0.86Ø & 0.57Ø OAK FORKED
11675	1675	12+97.74	26.97' LT	1.31Ø OAK
11676	1676	12+96.47	41.02' LT	0.54Ø , 0.64Ø , 0.45Ø ORNAMENTAL CLUSTER
11677	1677	12+85.15	28.21' LT	1.02Ø OAK (DEAD)
11679	1679	12+47.39	23.22' LT	1.27Ø OAK
11680	1680	12+38.32	23.22' LT	1.53Ø PINE

TREE REMOVAL TABLE				
POINT	TAG NUMBER	STATION	OFFSET	DESCRIPTION
11681	1681	12+15.50	27.24' LT	0.64Ø OAK
11682	1682	12+12.59	24.64' LT	0.73Ø OAK
11684	1684	12+04.16	22.93' LT	0.48Ø ORNAMENTAL
11689	1689	13+67.48	50.01' RT	1.59Ø ORNAMENTAL
11691	1691	12+62.96	50.93' RT	0.38Ø & 0.32Ø OAK FORKED
11692	1692	12+87.70	24.02' RT	0.54Ø OAK
11693	1693	12+60.18	18.86' RT	1.31Ø OAK
11694	1694	12+63.40	22.73' RT	0.70Ø & 0.73Ø OAK FORKED
11695	1695	12+48.36	25.59' RT	0.45Ø OAK
11696	1696	12+45.14	32.71' RT	0.35Ø PINE
11697	1697	12+31.97	33.93' RT	0.41Ø PINE
11698	1698	12+20.73	33.26' RT	0.41Ø PINE
11699	1699	12+24.91	24.33' RT	0.35Ø PINE
11700	1700	12+32.99	22.27' RT	0.67Ø OAK
11701	1701	12+24.34	22.47' RT	0.99Ø & 0.92Ø OAK FORKED
11702	1702	12+16.79	22.29' RT	0.67Ø & 0.32Ø OAK FORKED
11703	1703	12+07.28	24.57' RT	0.38Ø & 0.45Ø OAK FORKED
11704	1704	11+95.66	19.67' RT	0.67Ø OAK
11705	1705	11+94.80	20.55' RT	0.51Ø PINE
11713	1713	11+65.21	50.59' RT	1.88Ø OAK
11714	1714	11+59.78	49.31' RT	0.32Ø , 0.48Ø , 0.32Ø , 0.32Ø , 0.54Ø , 0.32Ø OAK CLUSTER(6)

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 01/30/19
 ROAD NUMBER: 007



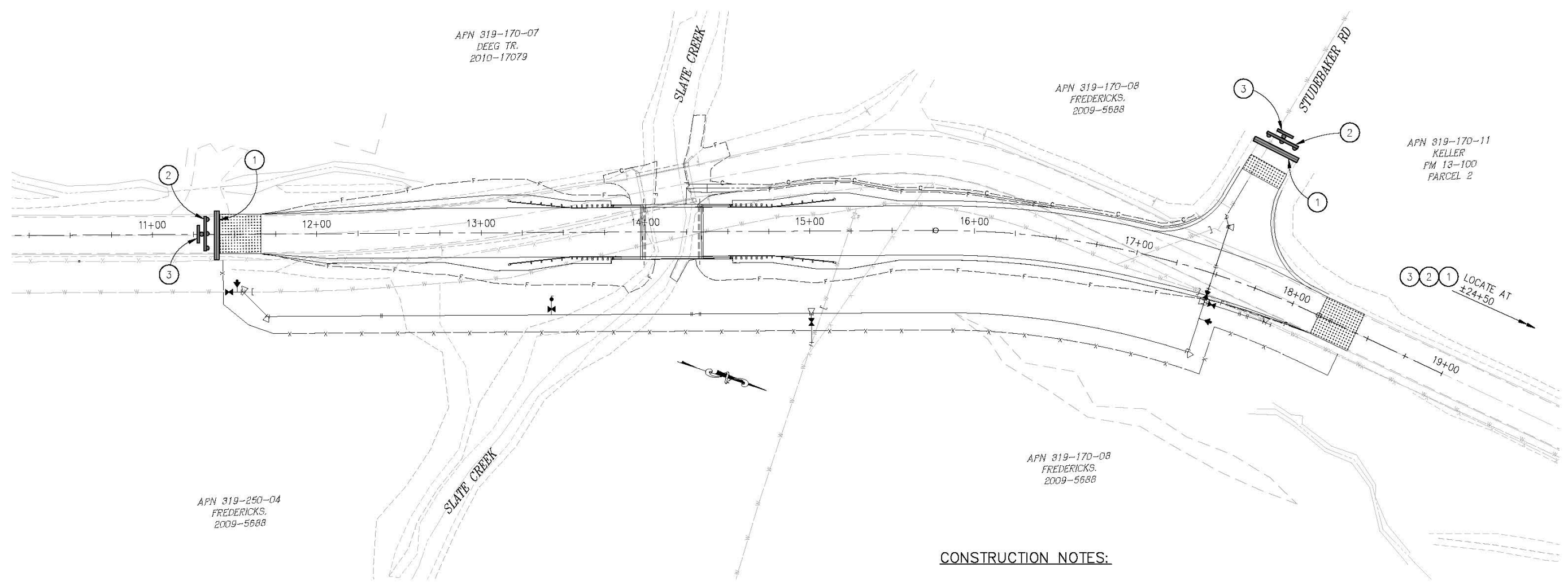
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
 BRIDGE REPLACEMENT

TREE REMOVAL TABLE
 SCALE : NONE

SHEET
 TR-2
 11 OF 30
 CIP No. 77137

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil_3D\Projects\77137_Greenstone Rd. at Slate Creek Bridge\CADD Files\Sheets\SC-Sheets.dwg Layout Tab: SC-1 Jan. 31, 2019 - 10:18am ShicVey
 FOR REDUCED PLANS
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- CONSTRUCTION NOTES:**
- ① — K-RAIL
 - ② — TYPE III BARRICADE W/ FLASHING BEACON
 - ③ — R11-2 SIGN (BLACK LETTERING ON ORANGE BACKGROUND) MOUNTED ON BARRICADE

STAGE CONSTRUCTION AND TRAFFIC HANDLING
SCALE : 1" = 30'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: _____

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 04/13/18
 ROAD NUMBER: 007

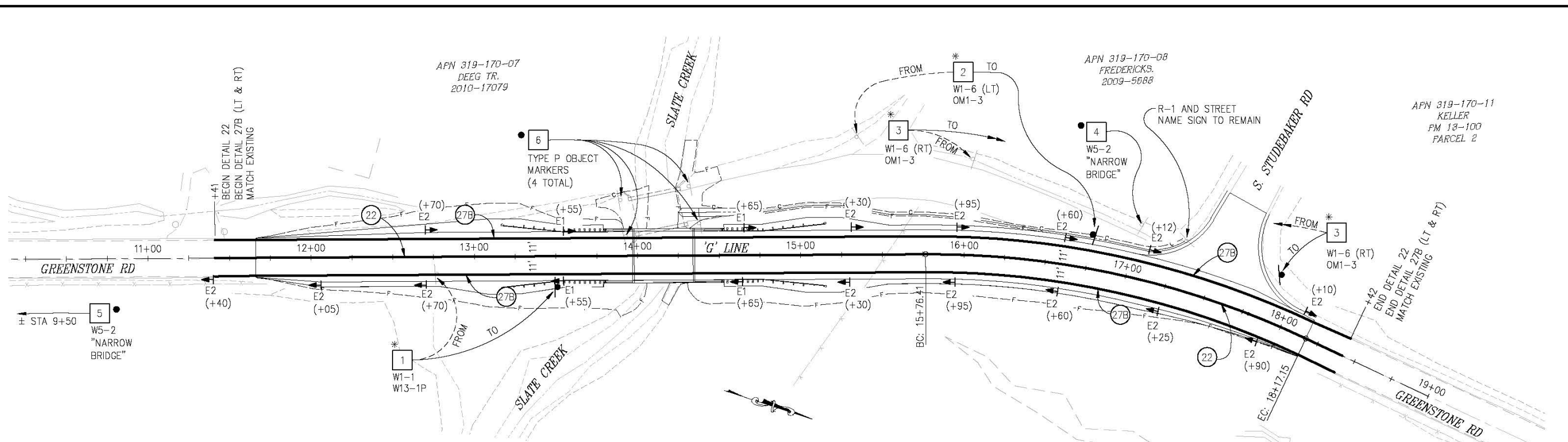


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

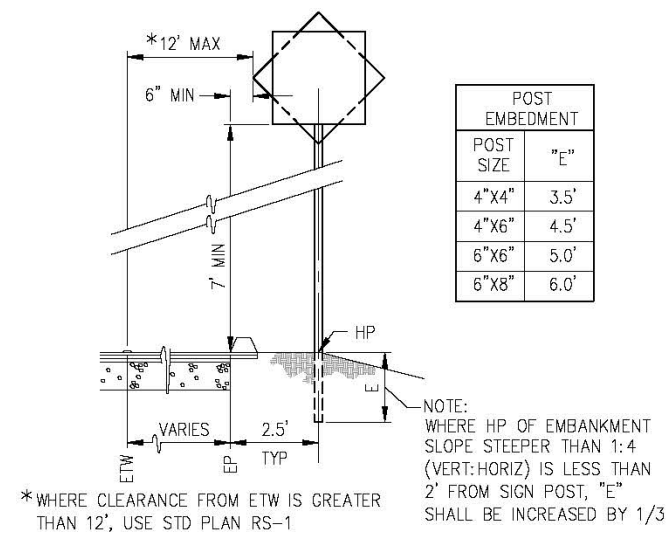
SHEET
SC-1
 12 OF 30
 CIP No. **77137**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 2
 1
 0



CONSTRUCTION NOTES

1. SIGNING AND PAVEMENT DELINEATION PLANS ARE ACCURATE FOR SIGNING AND PAVEMENT DELINEATION ONLY. SEE "SC" SHEETS FOR CONSTRUCTION AREA SIGNS.
2. LOCATIONS OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
3. VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO SIGN POST INSTALLATION.
4. ALL CONSTRUCTION AND PERMANENT SIGNS WILL HAVE 4" X 4" PRESSURE TREATED DOUGLAS FIR WOOD POSTS. POST SIZES SHOWN ARE DRESSED DRY MINIMUM SIZE.
5. POST LENGTHS GIVEN ARE APPROXIMATE. EXACT LENGTH TO BE DETERMINED BY THE ENGINEER.
6. SIGNS SHALL BE LOCATED PER "SIGN LOCATION DETAIL", THIS SHEET.
7. ALL PERMANENT SIGNS SHALL BE 12 GAUGE (0.078") ALUMINUM PANELS.
8. ALL EXISTING MARKERS/DELINEATORS WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND SALVAGED UNLESS OTHERWISE NOTED.
9. 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.
10. FOR SIGNS SHOWN AS "REMOVE AND SALVAGE ROADSIDE SIGN", CONTRACTOR SHALL RETURN SIGN PANEL TO EL DORADO COUNTY. SIGN POST SHALL BECOME CONTRACTOR'S PROPERTY AFTER REMOVAL AND SHALL BE DISPOSED OF PROPERLY.



POST EMBEDMENT	
POST SIZE	"E"
4"X4"	3.5'
4"X6"	4.5'
6"X6"	5.0'
6"X8"	6.0'

LEGEND

- (XX) - STRIPING DETAIL
- [X] - SIGN NUMBER
- - EXIST SIGN
- - INSTALL SIGN
- - EXISTING MARKER/DELINEATOR
- ▶ - PROPOSED MARKER/DELINEATOR
- E2 = CLASS 1 DELINEATOR, TYPE E PER A73C
- E1 = DELINEATOR FASTENED TO MGS POSTS PER A77N4 (TOTAL 4)
- - REMOVE AND SALVAGE ROADSIDE SIGN
- * - RELOCATE ROADSIDE SIGN


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

THIS PLAN ACCURATE FOR SIGNING AND PAVEMENT DELINEATION WORK ONLY

SIGNING AND PAVEMENT DELINEATION
 SCALE : 1" = 30'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 01/30/19
DATE:	ROAD NUMBER: 007	



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET	SPD-1
	13 OF 30
CP No.	77137

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

SIGN QUANTITIES									
SIGN NO.	SIGN	CALIFORNIA MUTCD CODE	PANEL SIZE (INCHES)	WOOD POST SIZE & LENGTH	ROADSIDE SIGNS			EXISTING LOCATION	PROPOSED LOCATION (APPROXIMATELY)
					ONE POST EA	RELOCATE EA	SALVAGE EA		
1	ADVANCED WARNING 'CURVE AHEAD'	W1-1(RT)		15		1		'G' 12+75 RT	'G' 13+50 RT
	'30 MPH'	W13-1P							
2	ADVANCED WARNING 'CURVE AHEAD'	W1-6(LT)		15		1		'G' 15+35 LT	'G' 16+75 LT
	OBJECT MARKER	OM1-3							
3	ADVANCED WARNING 'CURVE AHEAD'	W1-6(RT)		15		1		'G' 16+04 LT	'G' 17+89 LT
	OBJECT MARKER	OM1-3							
4	'NARROW BRIDGE'	W5-2					1	'G' 17+03 LT	
5	'NARROW BRIDGE'	W5-2					1	'G' 9+50 LT	
6	OBJECT MARKER	OM-3					4	EXISTING BRIDGE	
TOTAL						3	6		

THERMOPLASTIC STRIPING							
DETAIL NO./STANDARD PLAN	FROM	TO	SPRAYABLE THERMOPLASTIC		PAVEMENT MARKER (RETROREFLECTIVE)		REMARKS
			WHITE FT	YELLOW FT	TYPE D EA	TYPE G EA	
DETAIL 22	'G' 11+41	'G' 18+42		701	60		
DETAIL 27B	'G' 11+41 LT	'G' 18+42 LT	706				
	'G' 11+41 RT	'G' 18+42 RT	696				
SUBTOTAL			1402	701			
TOTAL				2103	60		

DELINEATORS		
LOCATION	TYPE E CLASS 1	TYPE E CLASS 2
'G' 11+40 RT		1
'G' 12+05 RT		1
'G' 12+70 LT & RT		2
'G' 13+55 LT & RT	2	
'G' 14+65 LT & RT	2	
'G' 15+30 LT & RT		2
'G' 15+95 LT & RT		2
'G' 16+60 LT & RT		2
'G' 17+12 LT		1
'G' 17+25 RT		1
'G' 17+90 RT		1
'G' 18+10 LT		1
TOTAL	4	14


SIGNING AND PAVEMENT DELINEATION QUANTITIES
SCALE : NONE

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO DRAWN: SGM
 CHECKED: CG DATE: 01/30/19
 ROAD NUMBER: 007

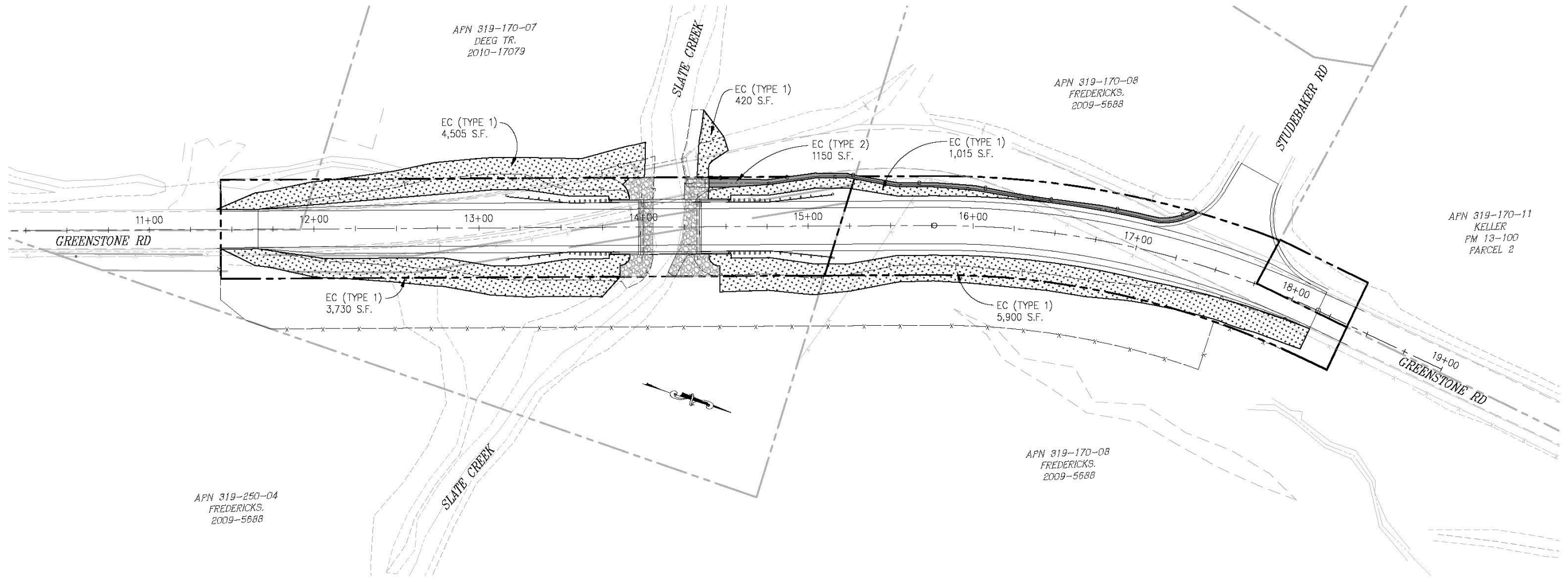


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET
SPD-2
 14 OF 30
 CIP No. **77137**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 0 1 2



- LEGEND:**
- EROSION CONTROL (TYPE 1): HYDROSEED & ROLLED EROSION CONTROL PRODUCT (BLANKET)
 - EROSION CONTROL (TYPE 2): HYDROSEED & ROLLED EROSION CONTROL PRODUCT (NETTING, TYPE B)
 - ROCK SLOPE PROTECTION (RSP), SEE STRUCTURAL SHEETS

THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN
SCALE : 1" = 30'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: SGM
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 01/30/19
DATE:	ROAD NUMBER: 007	

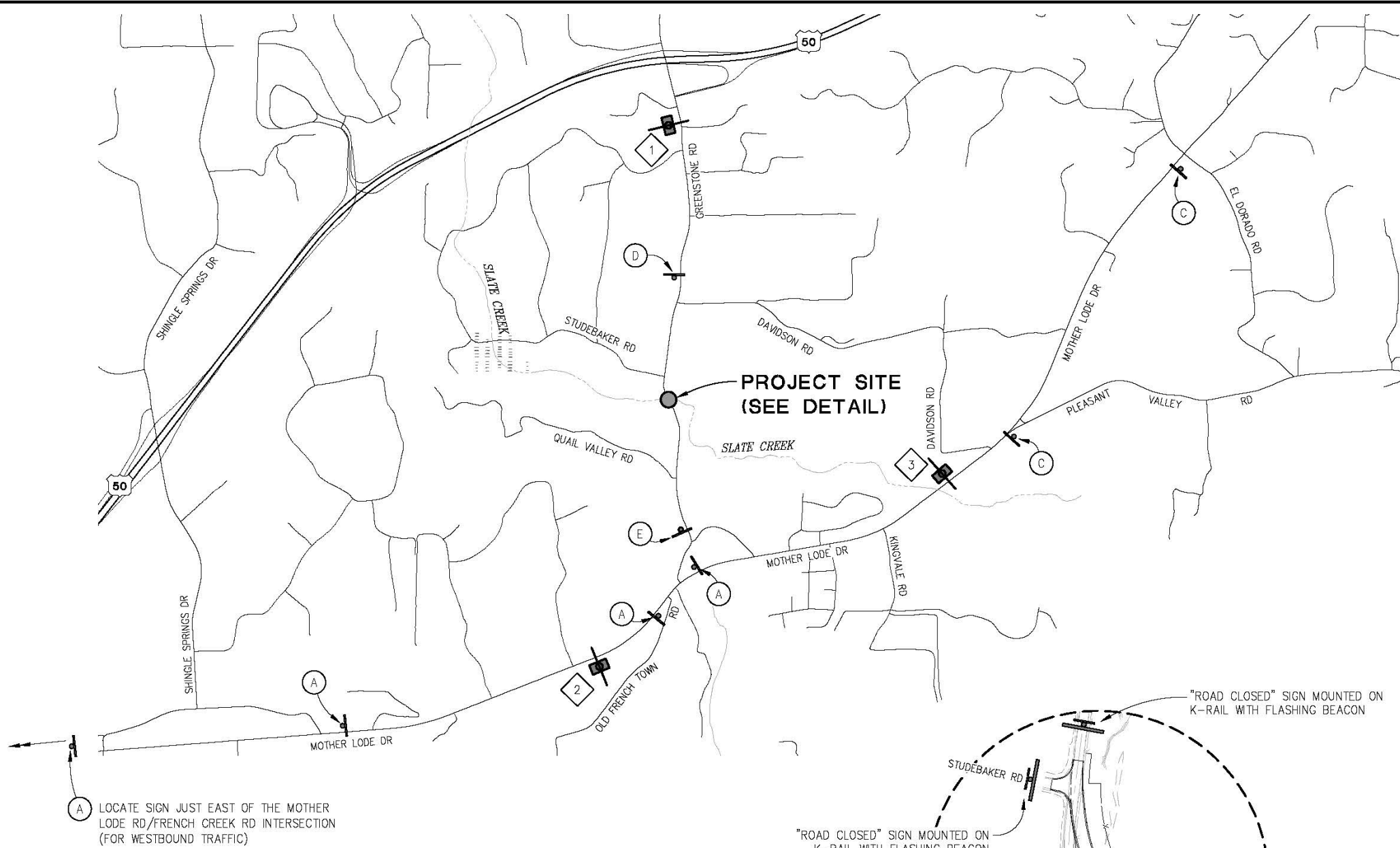


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

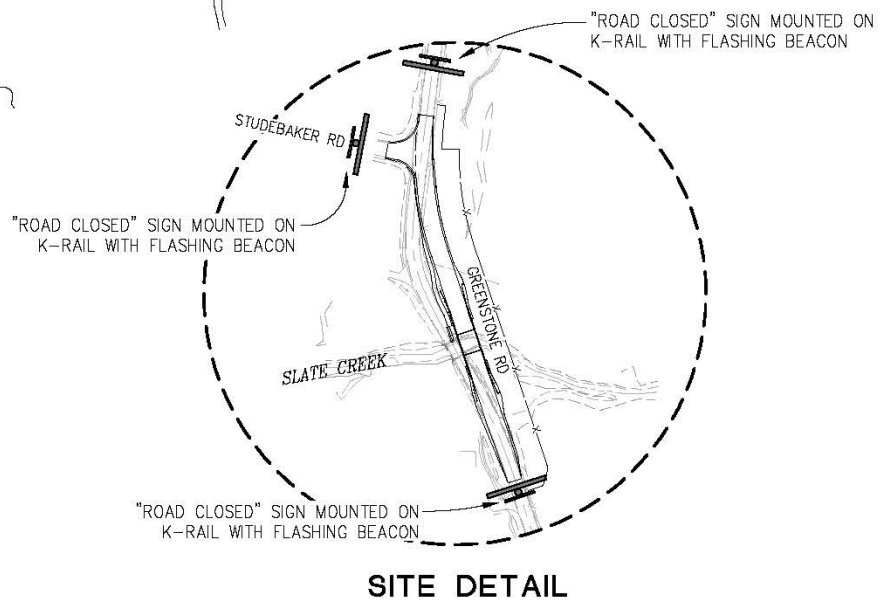
SHEET	EC-1
15 OF 30	
CIP No.	77137

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 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



(A) LOCATE SIGN JUST EAST OF THE MOTHER LODE RD/FRENCH CREEK RD INTERSECTION (FOR WESTBOUND TRAFFIC)

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TABLE			
PCMS No.	FIRST FLASH	SECOND FLASH	THIRD FLASH
1	ROAD CLOSED AHEAD	JULY TO JAN	USE ALT ROUTE
2	GREENSTONE ROAD	CLOSED JULY TO JAN	USE ALT ROUTE
3	GREENSTONE ROAD	CLOSED JULY TO JAN	USE ALT ROUTE



LEGEND

- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN
- K-RAIL
- (A) M4-9 SIGN, BLACK LETTERING ON ORANGE BACKGROUND (ARROW FACING UP)
- (B) M4-9 SIGN, BLACK LETTERING ON ORANGE BACKGROUND (ARROW FACING RIGHT)
- (C) M4-9 SIGN, BLACK LETTERING ON ORANGE BACKGROUND (ARROW FACING LEFT)
- (D) C19(CA) & C29 (CA) SIGNS, BLACK LETTERING ON ORANGE BACKGROUND
- (E) C19(CA) & C29 (CA) SIGNS, BLACK LETTERING ON ORANGE BACKGROUND

- GENERAL NOTES:**
- SEE SHEET SC-1 FOR ADDITIONAL SITE SPECIFIC TRAFFIC HANDLING.
 - ADVANCED WARNING SIGNS TO BE PLACED PER CALIFORNIA MANUAL ON TRAFFIC CONTROL DEVICES. EXACT LOCATION OF SIGNS AND BARRICADES TO BE DETERMINED BY THE ENGINEER.
 - ALL SIGNS SHALL BE PLACED ON TEMPORARY WOOD POSTS, EXCEPT PCMS' AND SIGNS ON TYPE III BARRICADES.
 - SIGN LOCATIONS TO BE APPROVED BY ENGINEER IN THE FIELD.

DETOUR PLAN SCALE : NONE

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE: _____

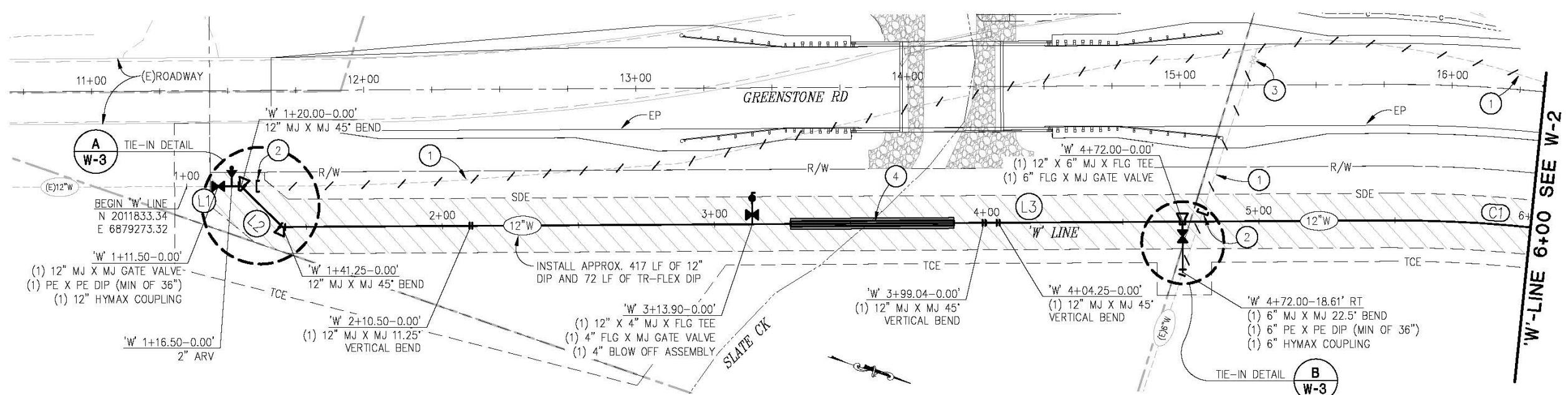
DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 01/30/19
 ROAD NUMBER: 007

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET
DE-1
 16 OF 30
 CIP No. **77137**

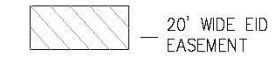
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 FOR REDUCED PLANS
 0 1 2



'W' LINE PLAN
SCALE: 1"=20'

'W' LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	20.00		N 18° 15' 22" W	
L2	21.25		N 26° 39' 47" E	
L3	406.21		N 18° 20' 13" W	
C1	156.22	488.00	N 9° 09' 57" W - 155.56	18° 20' 32"

LEGEND

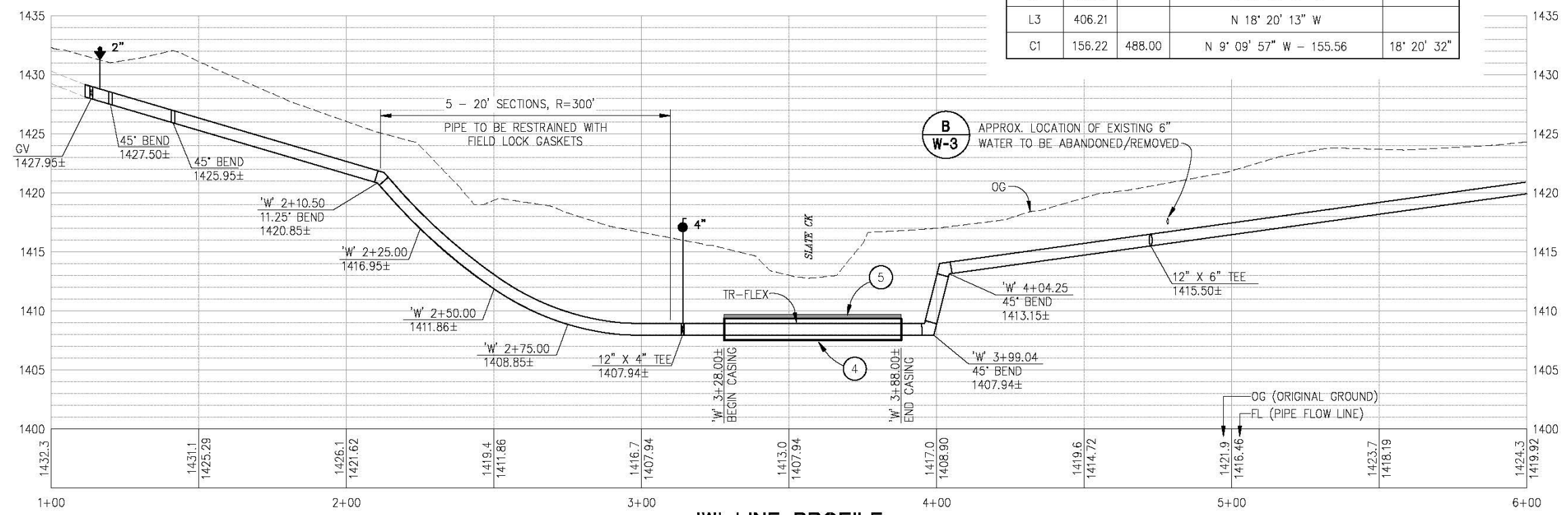


GENERAL NOTES:

- CONTRACTOR IS MADE AWARE THAT THIS IS A BRANCH DISTRIBUTION SYSTEM AND ALL 4 TIE-INS MUST BE COMPLETED AT THE SAME TIME AFTER LINE HAS BEEN COMPLETED AND PASSED. CONTRACTOR CAN SUBMIT AN ALTERNATIVE TIE-IN PLAN FOR REVIEW AND APPROVAL.
- THE LOCATION AND ANGLES OF THE EXISTING UTILITIES ARE UNKNOWN. CONTRACTOR SHALL POHOLE AS NECESSARY TO LOCATE IN ORDER TO VERIFY CONNECTION CONFIGURATION AND ABANDON THE PIPES.

CONSTRUCTION NOTES:

- ABANDON EXISTING WATERLINE PER EID STANDARDS AND SPECIFICATIONS
- INSTALL PIPE CAP PER EID STANDARDS AND SPECIFICATIONS
- REMOVE VALVE BOX, LID AND RISER FROM ABANDONED VALVE
- 60 LF OF 22" MINIMUM O.D. CASING PER EID STD DETAIL W29. CONTRACTOR TO PROVIDE PLAN FOR SENDING AND RECEIVING PITS. CONTRACTOR IS TO INSTALL 72 LF OF TR-FLEX DIP THROUGH NEW CASING. PRIOR TO TIE-IN TO NEW DIP CONTRACTOR TO AIR TEST TR-FLEX PER EID STANDARDS
- CONCRETE CAP ONLY REQUIRED FOR OPEN-CUT TRENCH INSTALLATION. (4' X 60' X 0.33')



'W' LINE PROFILE
SCALE: 1"=20' H, 1"=5' V

WATERLINE LAYOUT
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED: ZO
DRAWN: SGM
CHECKED: CG
DATE: 01/30/19
ROAD NUMBER: 007

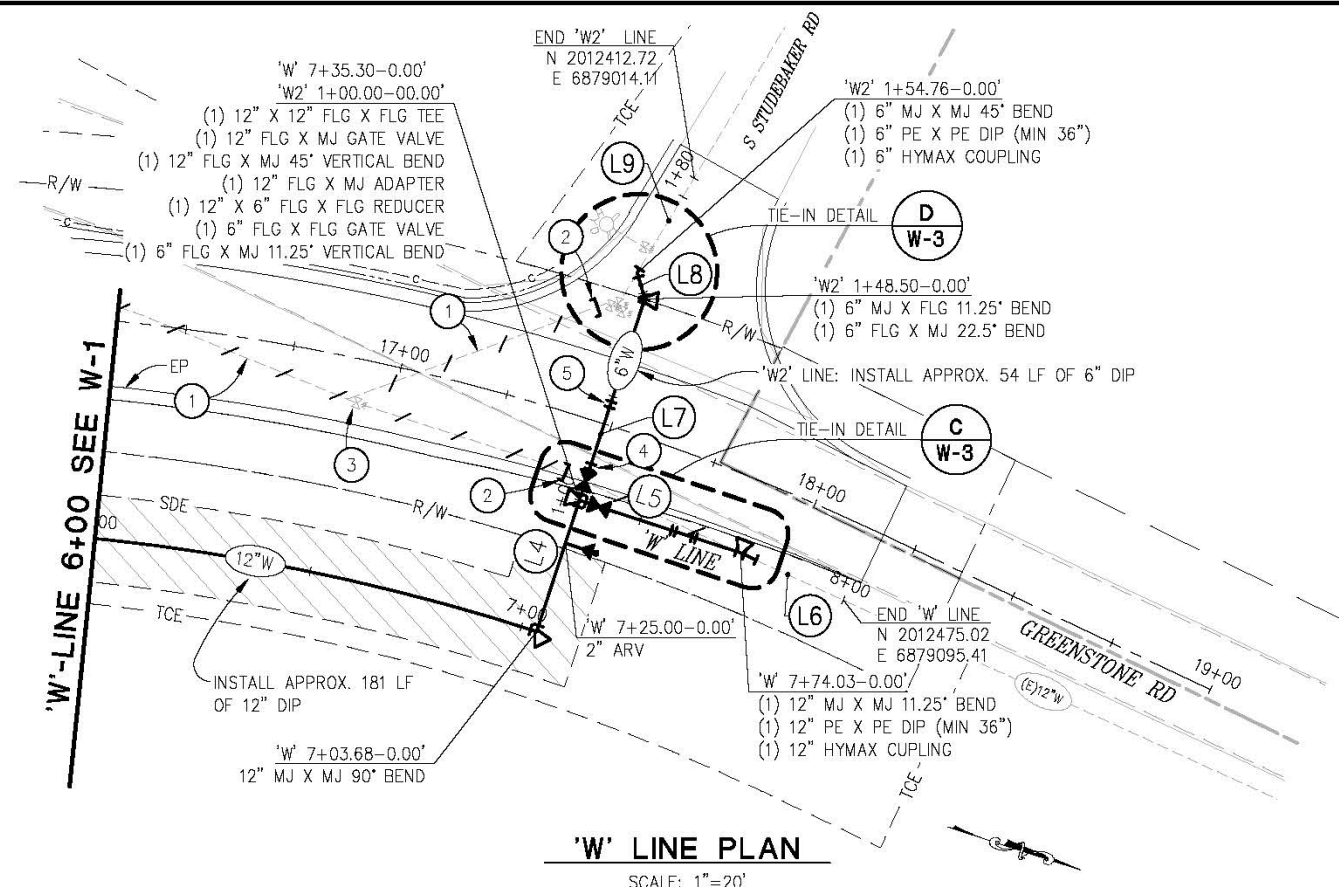


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET
W-1
17 OF 30
CP No. **77137**

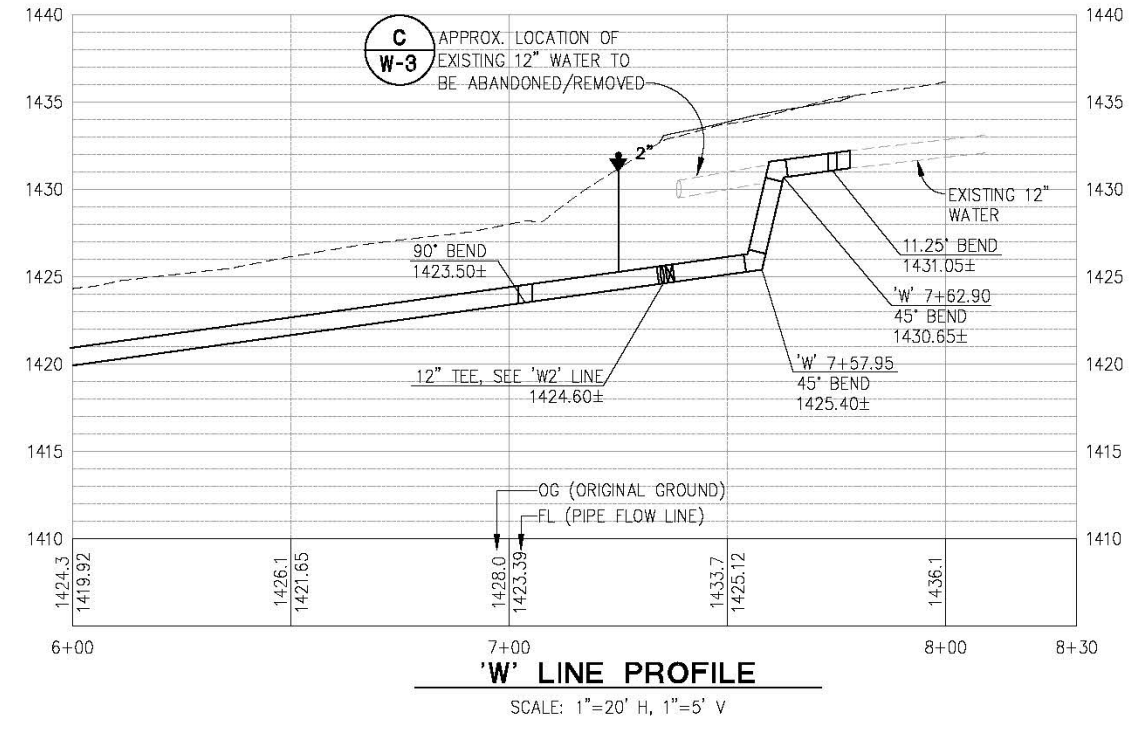
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 FOR REDUCED PLANS
 REVISION



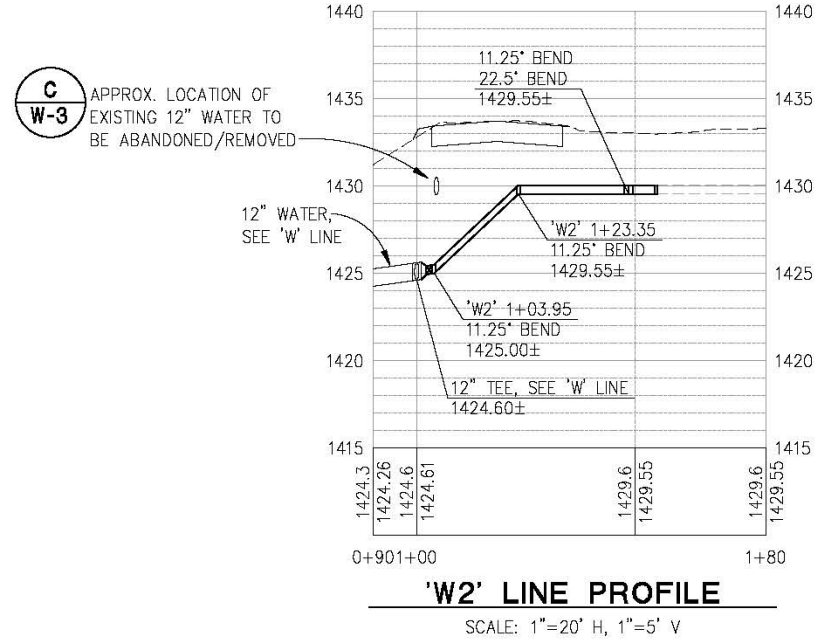
'W' LINE PLAN
SCALE: 1"=20'

'W' LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L4	31.61		N 89° 59' 41" W	
L5	38.73		N 0° 00' 19" E	
L6	25.97		N 6° 37' 56" E	

'W2' LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L7	58.50		N 89° 59' 41" W	
L8	6.26		S 56° 15' 19" W	
L9	25.24		N 76° 56' 41" W	



'W' LINE PROFILE
SCALE: 1"=20' H, 1"=5' V



'W2' LINE PROFILE
SCALE: 1"=20' H, 1"=5' V

GENERAL NOTES:

- THE LOCATION AND ANGLES OF THE EXISTING UTILITIES ARE UNKNOWN. CONTRACTOR SHALL POTHOLE AS NECESSARY TO LOCATE IN ORDER TO VERIFY CONNECTION CONFIGURATION AND ABANDON THE PIPES.

LEGEND



CONSTRUCTION NOTES:

- ABANDON EXISTING WATERLINE PER EID STANDARDS AND SPECIFICATIONS
- INSTALL PIPE CAP PER EID STANDARDS AND SPECIFICATIONS
- REMOVE VALVE BOX, LID AND RISER FROM ABANDONED VALVE
- 'W2' 1+03.95
6" FLG X MJ 11.25" VERTICAL BEND
- 'W2' 1+23.35
6" MJ X MJ 11.25" VERTICAL BEND

WATERLINE LAYOUT
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
DATE:

DESIGNED: ZO
DRAWN: SGM
CHECKED: CG
DATE: 01/30/19
ROAD NUMBER: 007



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

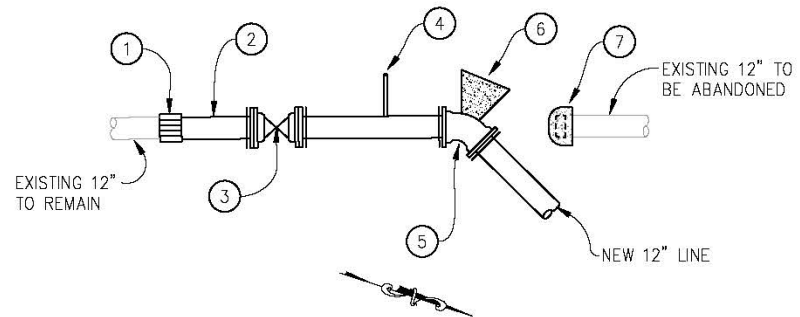
GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET
W-2
18 OF 30
CF No. **77137**

ORIGINAL SCALE IS IN INCHES
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 1
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**DETAIL A
CONSTRUCTION NOTES:**

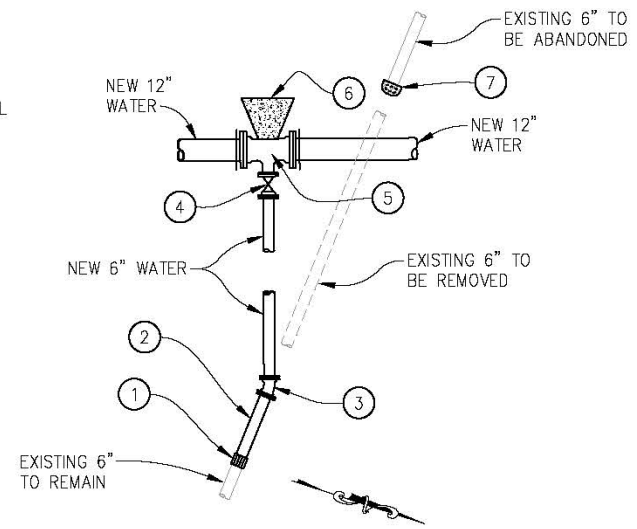
- ① 12" HYMAX COUPLING, OR APPROVED EQUAL
 - ② 12" PE X PE DIP, MINIMUM OF 36"
 - ③ 12" MJ X MJ GATE VALVE
 - ④ 2" ARV PER EID DETAIL W16
 - ⑤ 12" MJ X MJ 22.5° BEND
 - ⑥ THRUST BLOCK PER EID DETAIL W11
 - ⑦ CUT, CAP AND ABANDON EXISTING 12" PER EID STANDARDS AND SPECIFICATIONS
- * MJ JOINTS SHALL BE RESTRAINED



A CONNECTION DETAIL
NTS

**DETAIL B
CONSTRUCTION NOTES:**

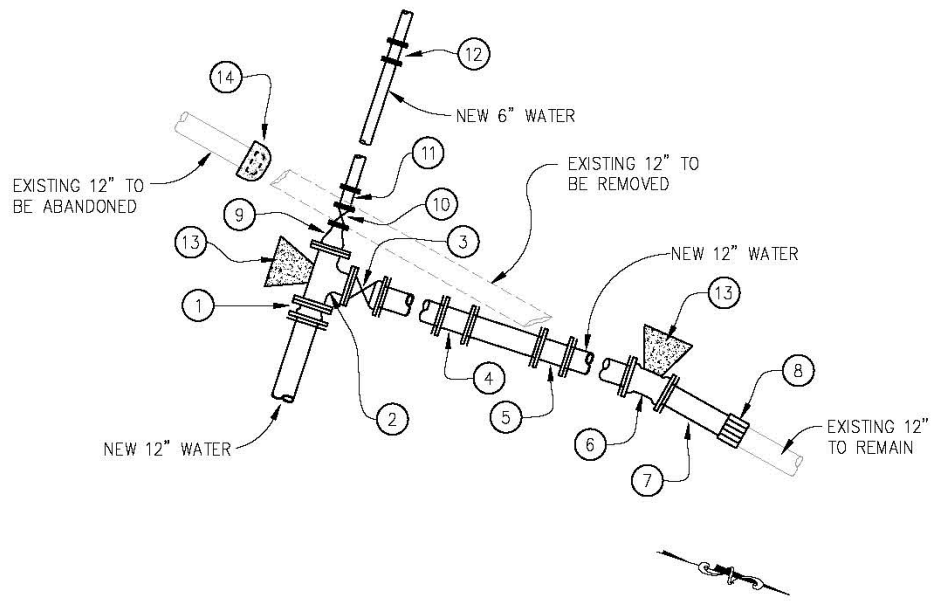
- ① 6" HYMAX COUPLING, OR APPROVED EQUAL
 - ② 6" PE X PE DIP, MINIMUM OF 36"
 - ③ 6" MJ X MJ 22.5° BEND
 - ④ 6" FLG X MJ GATE VALVE
 - ⑤ 12" X 6" MJ X FLG TEE
 - ⑥ THRUST BLOCK PER EID DETAIL W11
 - ⑦ CUT, CAP AND ABANDON EXISTING 6" PER EID STANDARDS AND SPECIFICATIONS
- * MJ JOINTS SHALL BE RESTRAINED



B CONNECTION DETAIL
NTS

**DETAIL C
CONSTRUCTION NOTES:**

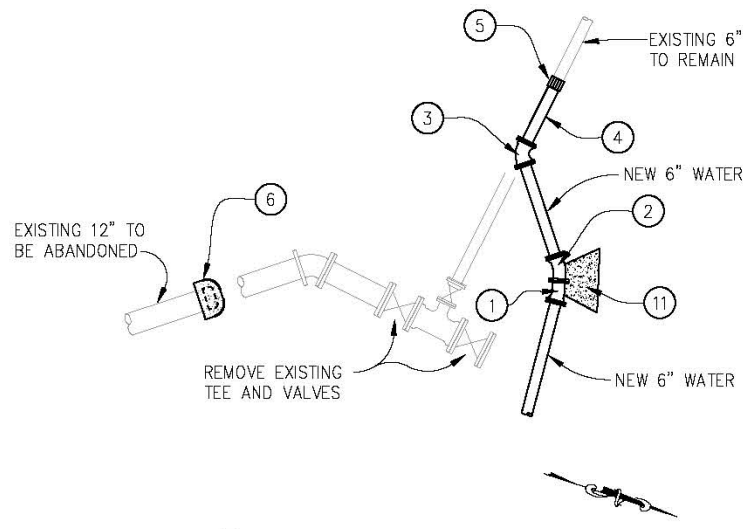
- ① 12" MJ X FLG ADAPTER
 - ② 12" X 12" FLG X FLG TEE
 - ③ 12" FLG X MJ GATE VALVE
 - ④ 12" MJ X MJ 45° VERTICAL BEND
 - ⑤ 12" MJ X MJ 45° VERTICAL BEND
 - ⑥ 12" MJ X MJ 11.25° BEND
 - ⑦ 12" PE X PE DIP, MINIMUM 36"
 - ⑧ 12" HYMAX, OR APPROVED EQUAL
 - ⑨ 12" X 6" FLG X FLG REDUCER
 - ⑩ 6" FLG X FLG GATE VALVE
 - ⑪ 6" FLG X MJ 11.25° VERTICAL BEND
 - ⑫ 6" MJ X MJ 11.25° VERTICAL BEND
 - ⑬ THRUST BLOCK PER EID DETAIL W11
 - ⑭ CUT, CAP AND ABANDON EXISTING 6" PER EID STANDARDS AND SPECIFICATIONS
- * MJ JOINTS SHALL BE RESTRAINED



C CONNECTION DETAIL
NTS

**DETAIL D
CONSTRUCTION NOTES:**

- ① 6" MJ X FLG 11.25° BEND
 - ② 6" FLG X MJ 22.5° BEND
 - ③ 6" MJ X MJ 45° BEND
 - ④ 6" PE X PE DIP, MINIMUM OF 36"
 - ⑤ 6" HYMAX COUPLING, OR APPROVED EQUAL
 - ⑥ CUT, CAP AND ABANDON EXISTING 12" PER EID STANDARDS AND SPECIFICATIONS
- * MJ JOINTS SHALL BE RESTRAINED



D CONNECTION DETAIL
NTS

GENERAL NOTES:

1. THE LOCATION AND ANGLES OF THE EXISTING UTILITIES ARE UNKNOWN. CONTRACTOR SHALL POthOLE AS NECESSARY TO LOCATE IN ORDER TO VERIFY CONNECTION CONFIGURATION AND ABANDON THE PIPES.
2. VERTICAL KICKERS ARE NOT SHOWN FOR CLARITY OF TIE-IN DETAIL.

**CONNECTION DETAILS
SCALE : NONE**

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 01/30/19
 ROAD NUMBER: 007



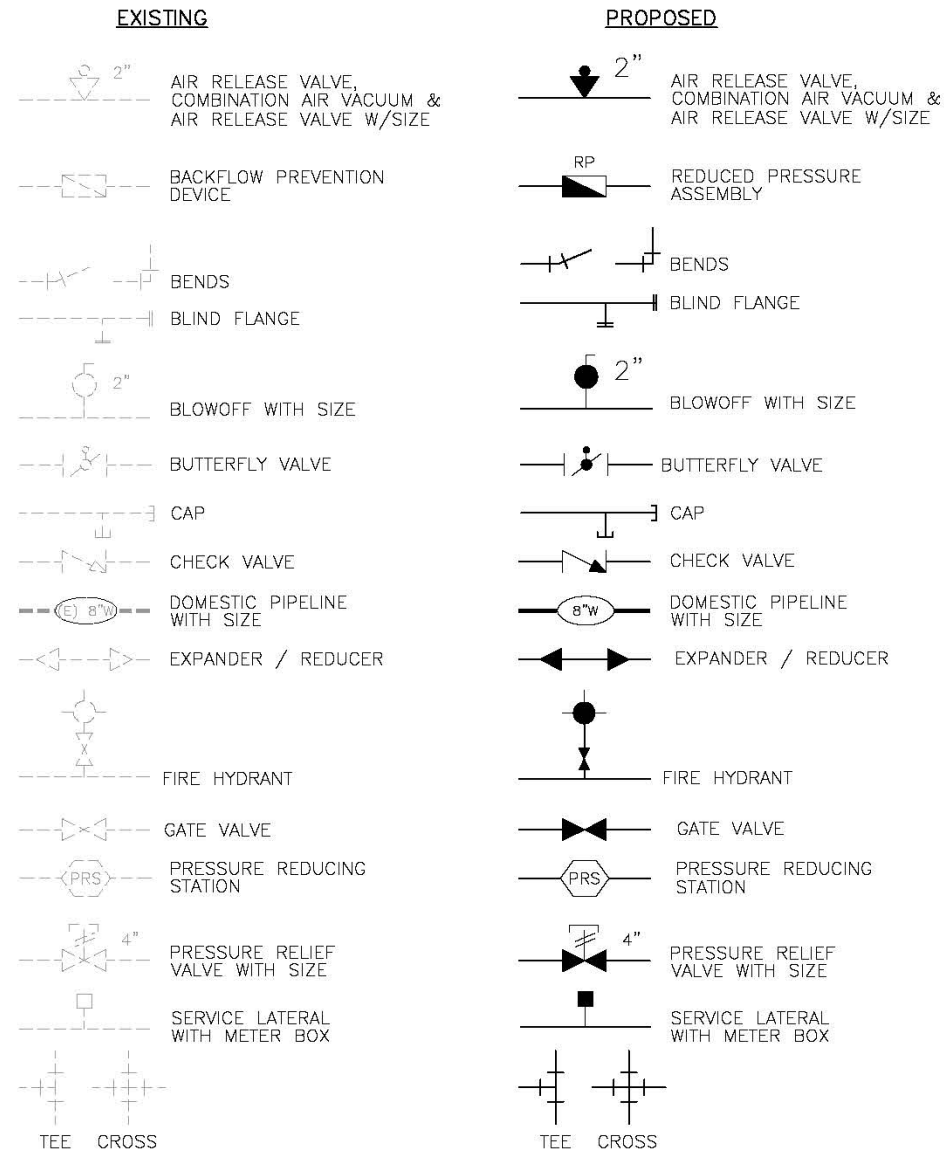
**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**GREENSTONE RD AT SLATE CREEK
BRIDGE REPLACEMENT**

SHEET
W-3
 19 OF 30
 CIP No. **77137**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77137\Greenstone Rd. at Slate Creek Bridge\CADD Files\Streets\W-Streets.dwg Layout Tab: W-4 Jan 31, 2019 - 10:07:00 AM SMC/vey
 FOR REDUCED PLANS
 0 1 2

WATER SYSTEM LEGEND:



WATER NOTES:

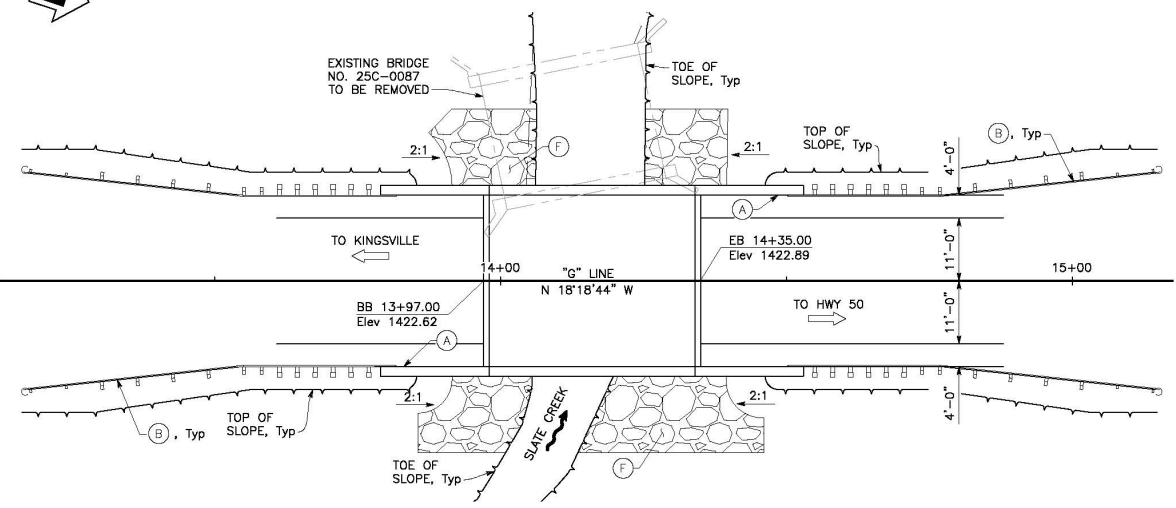
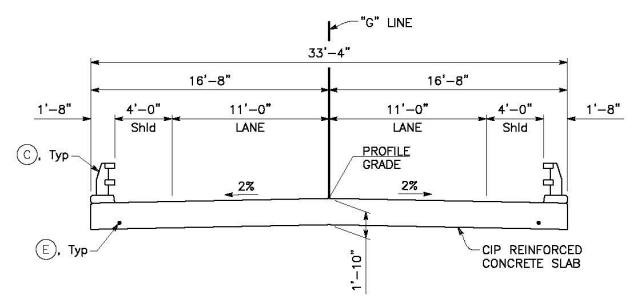
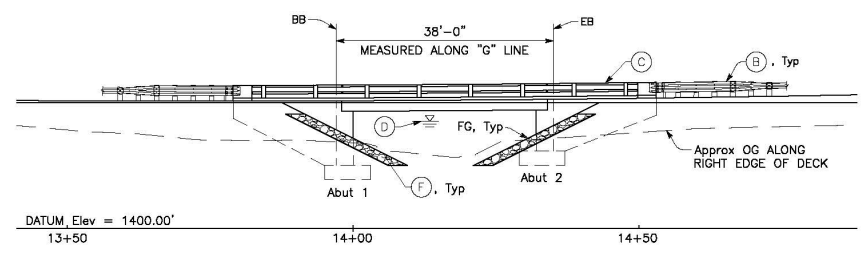
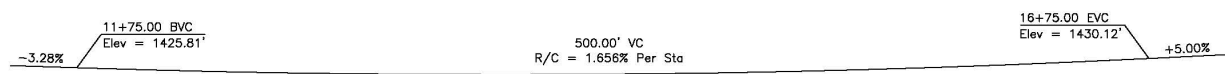
1. WORK SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION AND TO THE SATISFACTION OF THE EL DORADO IRRIGATION DISTRICT (EID). CONSTRUCTION SHALL CONFORM TO THESE PLANS AND E.I.D.'s LATEST VERSION OF THE TECHNICAL SPECIFICATIONS AND STANDARD DRAWINGS.
2. CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION CONFERENCE WITH EID INSPECTION 5 WORKING DAYS IN ADVANCE OF DOING WORK WITHIN THEIR JURISDICTION. CONSTRUCTION SHALL BE STARTED NO LATER THAN FIVE(5) DAYS AFTER THE PRECONSTRUCTION CONFERENCE.
3. LOCATION OF ALL UNDERGROUND FACILITIES ARE APPROXIMATE ONLY - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL FACILITIES PRIOR TO ANY EXCAVATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND FACILITIES AFFECTED BY THE WORK AND SHALL CONTACT UNDERGROUND SERVICES ALERT (USA) 48 HOURS PRIOR TO ANY EXCAVATION WORK FOR DETERMINATION AND LOCATION OF UNDERGROUND UTILITIES (PHONE 1-800-642-2444)
5. CONNECTIONS TO EXISTING WATER FACILITY SHALL BE DONE BY A LICENSED CONTRACTOR IN ACCORDANCE WITH EID TIE-IN PROCEDURES PER TECHNICAL SPECIFICATION.
6. WHERE EXCAVATIONS FOR ANY FACILITIES CONSTRUCTION EXCEED 5 FEET IN DEPTH, CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FORM CAL/OSHA IN SACRAMENTO (PHONE 1-916-263-2800), POST PERMIT AT THE CONSTRUCTION SITE AND COMPLY WITH ALL REQUIREMENTS.
7. THE CONTRACTOR SHALL NOTIFY EID INSPECTION 48 HOURS PRIOR TO START OR RESTART OF WORK.
8. ONLY EID PERSONNEL SHALL OPERATE ANY VALVES ON EXISTING WATER SYSTEM.
9. THE TOTAL SITE REQUIRED FIRE FLOW IS 1,750 GPM AT 20 PSI RESIDUAL.
10. BASED UPON A HYDRAULIC GRADE LINE OF 1816 FT AT STATIC CONDITIONS AND 1801 FT DURING FIRE FLOW AND MAXIMUM DAY DEMANDS, THE MAXIMUM AND MINIMUM PRESSURES ARE CALCULATED TO BE 115 PSI AND 88 PSI RESPECTIVELY.
11. PIPELINES SHALL BE DISINFECTED, FLUSHED, AND HYDROSTATICALLY TESTED IN ACCORDANCE WITH EID'S TECHNICAL SPECIFICATIONS.
12. SERVICE INSTALLATIONS IN ROADWAYS WITH CUTS OR FILLS GREATER THAN 6 FEET IN HEIGHT AND SLOPES STEEPER THAN 3:1 SHALL HAVE THE METER BOX SET AT FINISH GRADE NEXT TO THE ROAD IN THE LOCATION DIRECTED BY EID. THE SERVICE LINE SHALL THEN BE EXTENDED 5 FEET BEYOND THE SLOPE CATCH POINT WITH PVC SCHEDULE 40 SIZED TO MATCH THE SERVICE. PLACE STEEL T-POSTS PAINTED BLUE AT THE END OF THIS SERVICE LINE.
13. LIDS SHALL BE MARKED "WATER".
14. CURBS SHALL BE WET STAMPED WITH A "W" BRAND WHERE WATER SERVICES INTERCEPT.
15. CONTRACTOR SHALL HAVE A COPY OF THE EID'S CONSTRUCTION STANDARDS ON THE JOB.
16. REVISIONS TO THE DRAWINGS MUST BE APPROVED IN WRITING BY EID.
17. STAKING INFORMATION: MINIMUM SPACING SHALL BE 50 FEET (25 FEET IN RADIUS) UNLESS OTHERWISE DIRECTED BY EID. INFORMATION WILL INCLUDE OFFSET, TYPE OF FACILITY AND CUT TO FLOW LINE ON THE FRONT OF THE STAKE AND ELEVATION AND STATION NUMBER ON THE BACK. ANGLE POINTS AND APPURTENANCES TO BE STAKED INCLUDING LINE AND CURB STAKES AS NEEDED. CUT SHEETS REQUIRED WHERE SUBGRADE HAS NOT BEEN MADE.

**LEGEND AND GENERAL NOTES
SCALE : NONE**

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF : REGISTERED CIVIL ENGINEER DATE:	DESIGNED: ZO DRAWN: SGM CHECKED: CG DATE: 01/30/19 ROAD NUMBER: 007	 <p>COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION</p>	<p>GREENSTONE RD AT SLATE CREEK BRIDGE REPLACEMENT</p>	SHEET W-4 20 OF 30 CP No. 77137
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 Drawing name: U:\6033 - Greenstone Road Bridge - El Dorado Co\100 Project Design Files\130 Bridges & Structures\Plan\CS-S-1.dwg Layout Tab: GP - Feb 07 2019 - 8:38am adrianos



- LEGEND:**
- Indicates Direction of Water Flow
 - Indicates Direction of Traffic
 - Indicates Existing Bridge to be removed
 - Indicates New Structure
- NOTES:**
- (A) Paint "BR. NO. 25C-0136" and year completed.
 - (B) Midwest Guardrail System, see "CONSTRUCTION DETAILS" sheet.
 - (C) California ST-10 Bridge Rail.
 - (D) 100 yr WS Elevation = 1418.24'.
 - (E) 2" PVC Conduit for future utilities.
 - (F) Rock Slope Protection, see "ROCK SLOPE PROTECTION" sheet.

FOR REDUCED PLANS 1/4" = 1'-0"

REVISION	NUMBER	DATE	DESCRIPTION	BY

DESIGNED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE:

DESIGNED: BH, SHAN, KD
 CHECKED: KL, DATE: 02/08/19
 ROAD NUMBER: XXXX



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

GREENSTONE ROAD AT SLATE CREEK
 BRIDGE REPLACEMENT

GENERAL PLAN
 SCALE AS SHOWN

SHEET
 S-1
 21 OF 30
 77137



ORIGINAL SCALE IS IN INCHES
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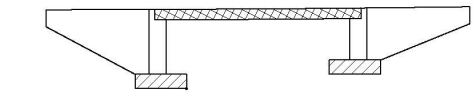
INDEX TO PLANS

SHEET NO.	TITLE
S-1	GENERAL PLAN
S-2	DECK CONTOURS
S-3	FOUNDATION PLAN
S-4	ABUTMENT LAYOUT
S-5	ABUTMENT DETAILS NO. 1
S-6	ABUTMENT DETAILS NO. 2
S-7	ABUTMENT DETAILS NO. 3
S-8	TYPICAL SECTION
S-9	ROCK SLOPE PROTECTION
S-10	LOG OF TEST BORINGS




CALTRANS STANDARD PLANS DATED 2015

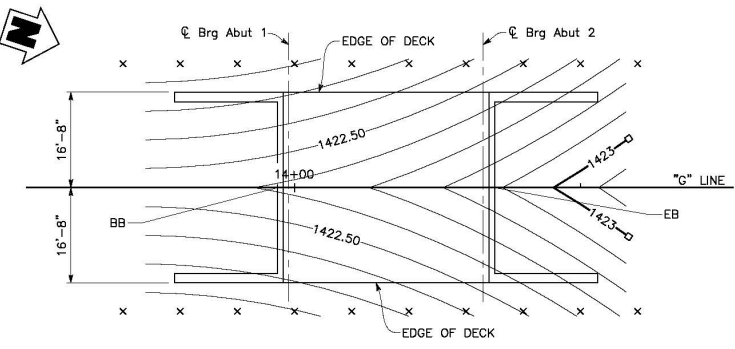
A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LEGEND LINES AND SYMBOLS (SHEET 1 OF 5)
RSP A10B	LEGEND LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
BO-1	BRIDGE DETAILS
RSP BO-3	BRIDGE DETAILS
BO-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-10	UTILITY OPENING BOX GIRDER
B11-68	CALIFORNIA ST-10 BRIDGE RAIL (SHEET 1 OF 3)
B11-69	CALIFORNIA ST-10 BRIDGE RAIL (SHEET 2 OF 3)
B11-70	CALIFORNIA ST-10 BRIDGE RAIL (SHEET 3 OF 3)

STANDARD PLAN SHEET NO. 
 DETAIL NO. 



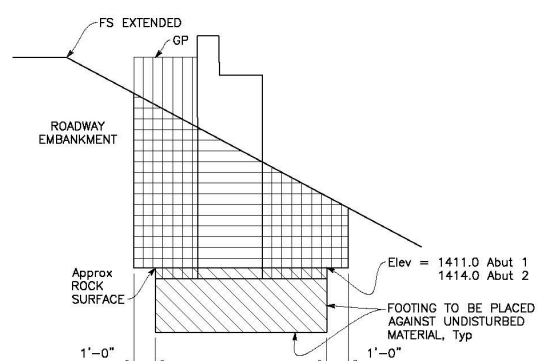
CONCRETE STRENGTH AND TYPE LIMITS
NO SCALE

-  Structural Concrete, Bridge (Polymer Fiber) ($f'_c = 3600$ psi @ 28 Days)
-  Structural Concrete, Bridge ($f'_c = 3600$ psi @ 28 Days)
-  Structural Concrete, Bridge Footing ($f'_c = 3600$ psi @ 28 Days)






PLAN
1" = 10'

- NOTES:**
- Contours do not include camber.
 - 0.1' Contour Interval.
 - x = Indicates 10' Intervals along "G" Line.
 - = Indicates whole foot contours.

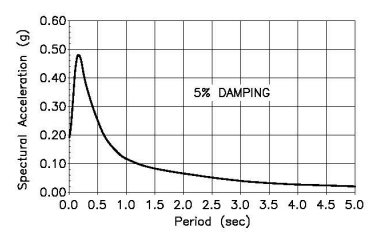


EXCAVATION AND BACKFILL LIMITS
NO SCALE

-  Structure Excavation (Bridge)
-  Structure Excavation (Rock)
-  Structure Backfill (Bridge)

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

- DESIGN:** AASHTO LRFD Bridge Design Specifications, 6th Edition and the Caltrans Amendments, preface dated January 2014.
SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.7 April 2013.
DEAD LOAD: Includes 35 psf for future wearing surface and 100 plf for future utilities.
LIVE LOADING: HL93 and permit design load.
SEISMIC LOADING: Soil profile: Vs30 = 760 m/s
 Moment Magnitude: 6.3
 Peak Ground Acceleration = 0.20g





REINFORCED CONCRETE:
 $f_y = 60$ ksi
 $f'_c =$ See "CONCRETE STRENGTH AND TYPE LIMITS"
 $n = 8$

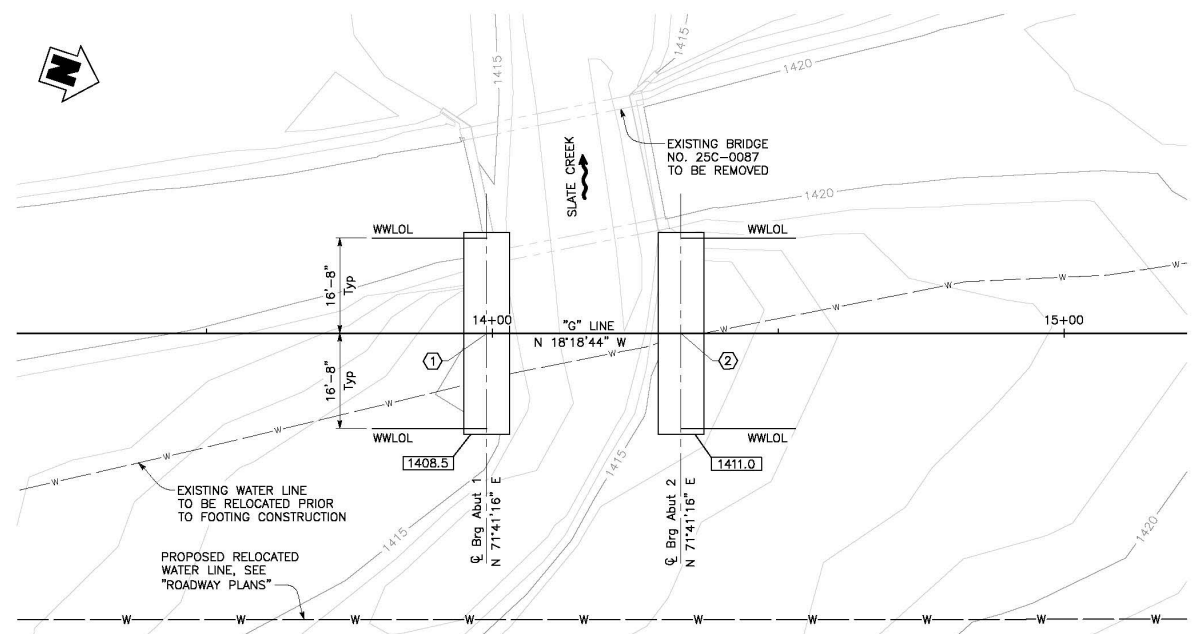
QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	CY	156
STRUCTURE EXCAVATION (ROCK)	CY	58
STRUCTURE BACKFILL (BRIDGE)	CY	134
STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	53
STRUCTURAL CONCRETE, BRIDGE	CY	90
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	82
JOINT SEAL (MR = 1")	LF	70
BAR REINFORCING STEEL (BRIDGE)	LB	26,650
BRIDGE REMOVAL	LS	1
ROCK SLOPE PROTECTION (60 lb, CLASS II, METHOD B)	CY	127
ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	246
CALIFORNIA ST-10 BRIDGE RAIL	LF	148

DECK CONTOURS
SCALE AS SHOWN

REVISION NUMBER DATE DESCRIPTION BY		PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER DATE:	DESIGNED: BH SHAN CHECKED: KL DATE: 02/08/19 ROAD NUMBER: XXXX		COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION GREENSTONE ROAD AT SLATE CREEK BRIDGE REPLACEMENT	SHEET S-2 22 OF 30 77137
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ORIGINAL SCALE IS IN INCHES
 Drawing name: U:\6035 - Greenstone Road Bridge - El Dorado Co\100 Project Design Files\100 Bridges & Structures\Plan\05-S-FP.dwg Layout Tab: FP Feb 07 2019 - 8:39pm sdhewes



PLAN
1" = 10'

LEGEND:

- Indicates Bottom of Footing Elevation
- Indicates Direction of Water Flow
- Indicates Existing Bridge to be removed
- Indicates New Structure

BENCH MARK:
See "ROADWAY PLANS" sheet

DATUM INFORMATION:
Horizontal (NAD 83 ZONE 2)
Vertical (NAVD 88)

HYDROLOGIC SUMMARY

	Northing	Eastng
① C Brg Abut 1 Sta 13+89.00	2012073.09	6879156.97
② C Brg Abut 2 Sta 14+33.00	2012105.36	6879146.28

DRAINAGE AREA: 4.71 SQUARE MILES		
	DESIGN FLOOD	BASE FLOOD
Frequency (Years)	50	100
Discharge (Cubic feet per second)	1271	1471
Water Surface (Elevation at bridge)	1417.87	1418.24

SPREAD FOOTING DATA TABLE

SUPPORT LOCATION	SERVICE PERMISSIBLE NET CONTACT STRESS (SETTLEMENT) (ksf)	STRENGTH/CONSTRUCTION FACTORED GROSS NOMINAL BEARING RESISTANCE (ksf) $\phi_c = 0.45$
Abut 1	11.7	15.9
Abut 2	15.9	21.5

SCOUR DATA TABLE

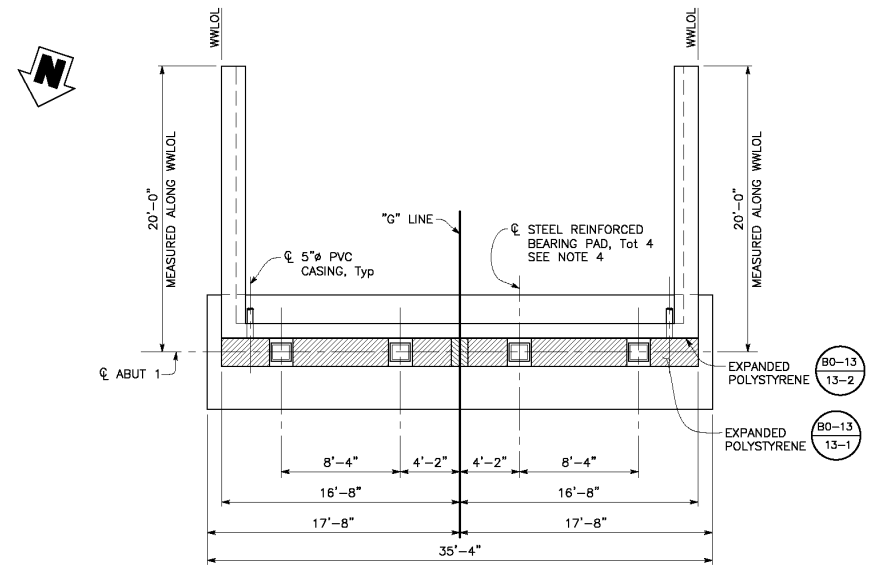
SUPPORT NO.	LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (FT)	SHORT TERM (LOCAL) SCOUR DEPTH (FT)
Abut 1	1413.50	19.82
Abut 2	1414.50	19.82

Flood plain data is based upon information available when the plans were prepared and are shown to meet federal requirements. The accuracy of said information is not warranted by the County; interested or affected parties should make their own investigation.

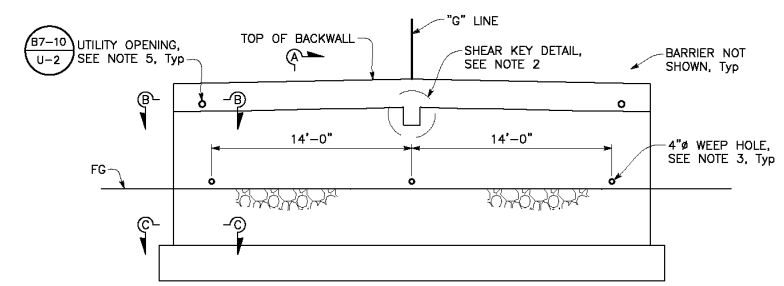
**FOUNDATION PLAN
SCALE AS SHOWN**

REVISION NUMBER DATE DESCRIPTION BY		PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER DATE:	DESIGNED: BH CHECKED: KL ROAD NUMBER: XXXX	DRAWN: KD DATE: 02/08/19		COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION GREENSTONE ROAD AT SLATE CREEK BRIDGE REPLACEMENT	SHEET S-3 23 OF 30 77137
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PLAN
 1/4" = 1'-0"
 ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR



ELEVATION
 1/4" = 1'-0"
 ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR

- NOTES:**
1. For "SECTION A-A", "SECTION B-B", and "SECTION C-C" see "ABUTMENT DETAILS NO. 1" sheet.
 2. For "SHEAR KEY DETAIL", see "ABUTMENT DETAILS NO. 2" sheet.
 3. For "WEEP HOLE AND GEOCOMPOSITE DRAIN DETAIL", see "ABUTMENT DETAILS NO. 3" sheet.
 4. For "BEARING PAD DETAIL", see "ABUTMENT DETAILS NO. 1" sheet.
 5. For "UTILITY OPENING DETAIL", see "ABUTMENT DETAILS NO. 3" sheet.

ABUTMENT LAYOUT
 SCALE AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE:

DESIGNED: BH SHAN
 CHECKED: KL DATE: 02/08/19
 ROAD NUMBER: XXXX

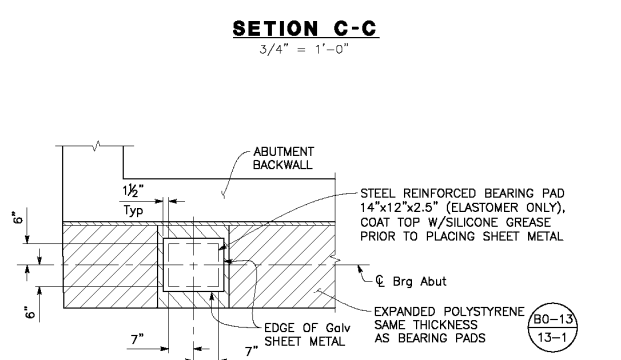
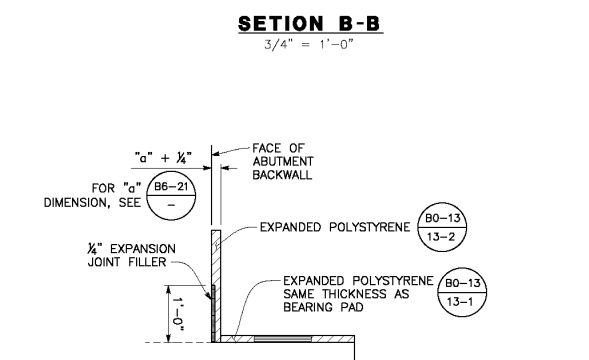
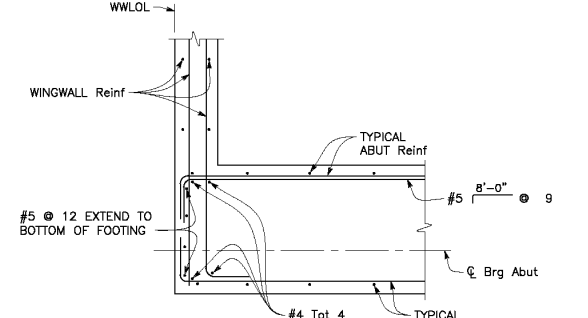
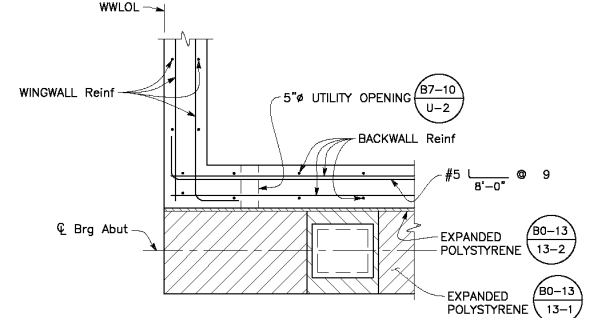
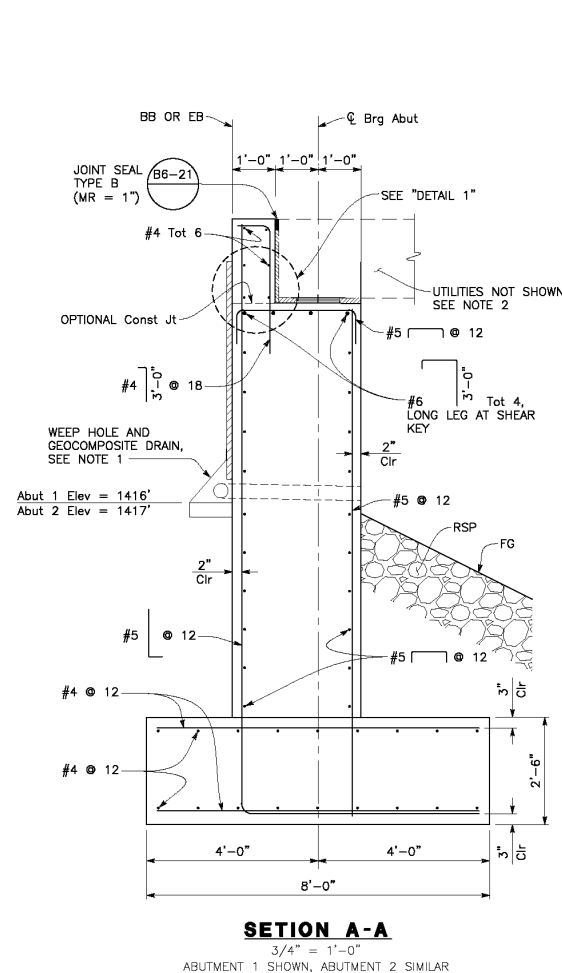


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

GREENSTONE ROAD AT SLATE CREEK
 BRIDGE REPLACEMENT


SHEET S-4
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 77137

ORIGINAL SCALE IS IN INCHES
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- NOTES:**
- For "WEEP HOLE AND GEOCOMPOSITE DRAIN DETAIL", see "ABUTMENT DETAILS NO. 3" sheet.
 - For "UTILITY OPENING DETAIL", see "ABUTMENT DETAILS NO. 3" sheet.

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER

DESIGNED:	BH	SKETCH:	KD
CHECKED:	KL	DATE:	02/08/19
ROAD NUMBER:	XXXX	DATE:	

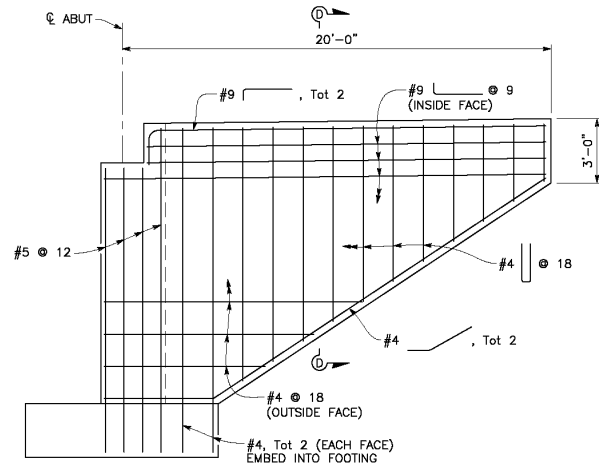
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

GREENSTONE ROAD AT SLATE CREEK
 BRIDGE REPLACEMENT

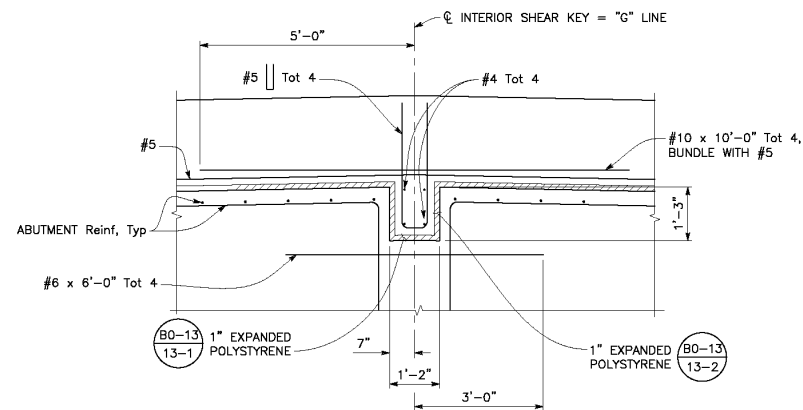
SHEET
 S-5
 25 OF 30
 77137

ABUTMENT DETAILS NO. 1
 SCALE AS SHOWN

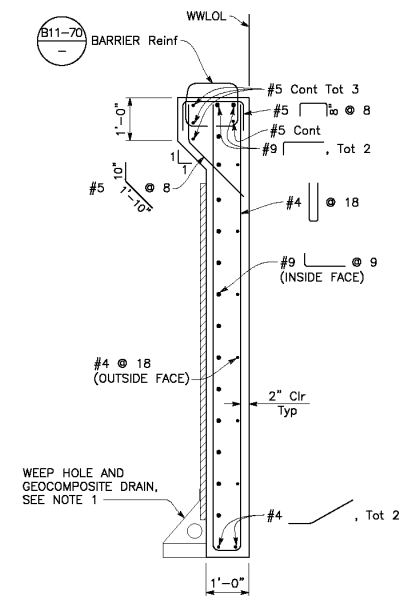
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WINGWALL ELEVATION
3/8" = 1'-0"



SHEAR KEY DETAIL
3/4" = 1'-0"




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

NOTE:

1. For "WEEP HOLE AND GEOCOMPOSITE DRAIN DETAIL", see "ABUTMENT DETAILS NO. 3" sheet.

ABUTMENT DETAILS NO. 2
SCALE AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER

DESIGNED: BH SHAN
 CHECKED: KL DATE: 02/08/19
 ROAD NUMBER: XXXX

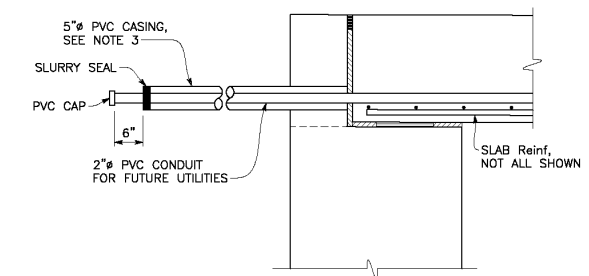
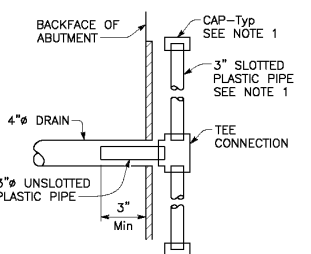
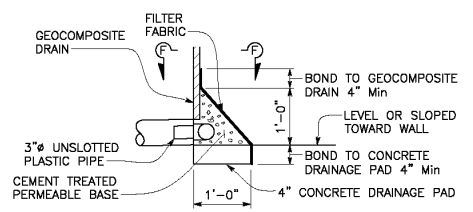
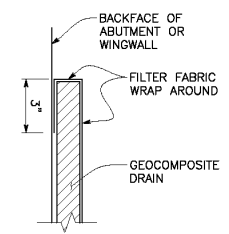
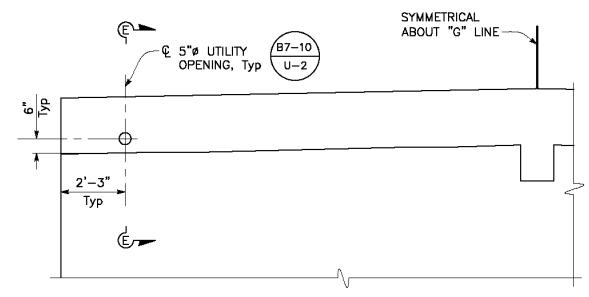
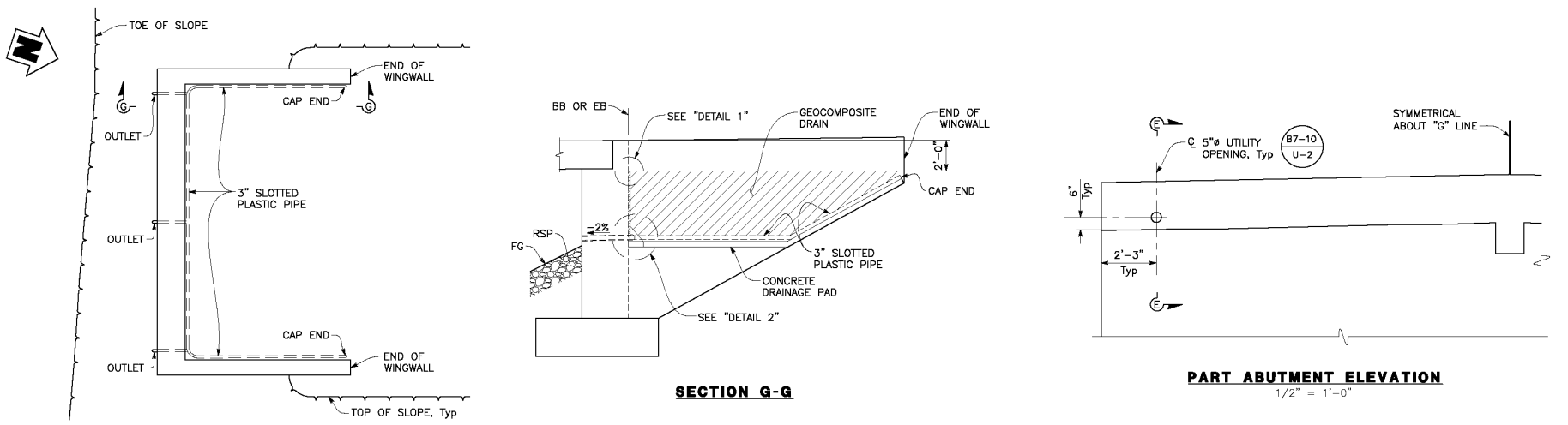


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE ROAD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET
 S-6
 26 OF 30
 77137

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



WEEP HOLE AND GEOCOMPOSITE DRAIN DETAIL
 NO SCALE

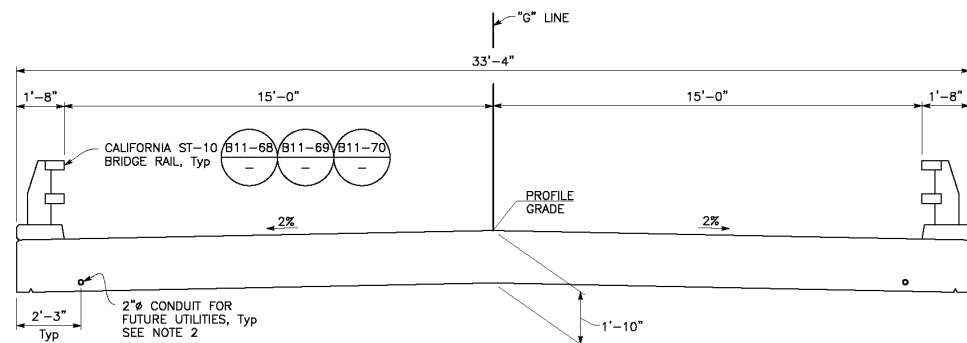
NOTES:

1. Geocomposite drain, cement treated permeable base, drainage pad, and 3" slotted plastic pipe continuous behind wingwall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" drain.
2. Connect the low end of plastic pipe to the main outlet pipe as applicable.
3. Casing shall extend 10'-0" beyond the back of the abutment and be sealed with slurry.

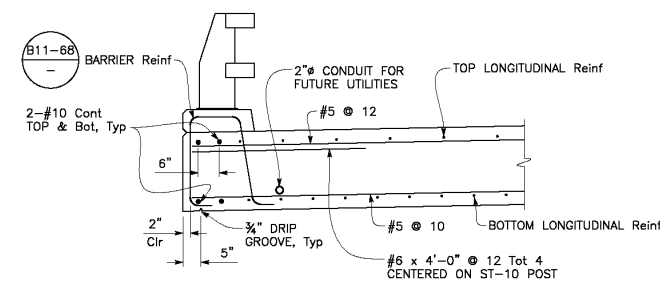
ABUTMENT DETAILS NO. 3
 SCALE AS SHOWN

		DESIGNED: BH KD CHECKED: KL DATE: 02/08/19 ROAD NUMBER: XXXX	COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	GREENSTONE ROAD AT SLATE CREEK BRIDGE REPLACEMENT	SHEET S-7 27 OF 30 77137
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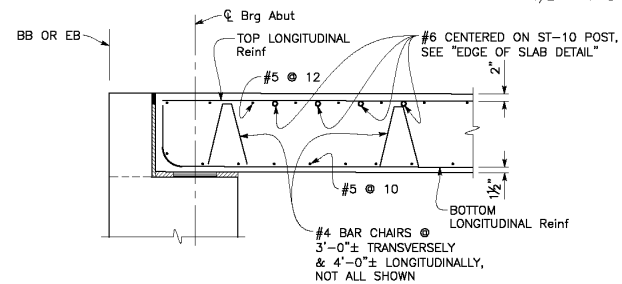
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 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



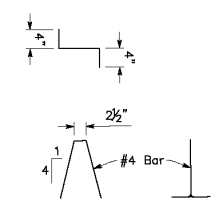
TYPICAL SECTION
1/2" = 1'-0"



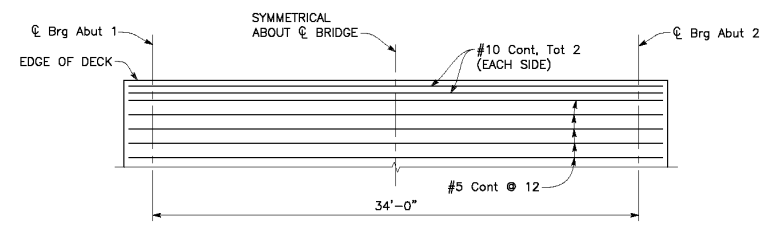
EDGE OF SLAB DETAIL
3/4" = 1'-0"



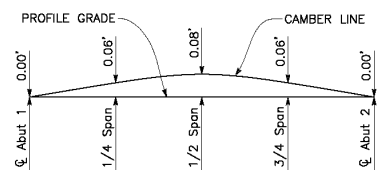
PART LONGITUDINAL SECTION
3/4" = 1'-0"



BAR CHAIR DETAIL
1" = 1'-0"



TOP LONGITUDINAL REINFORCEMENT
NO SCALE

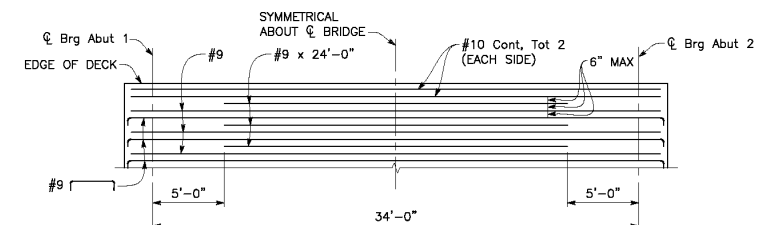


NOTE:
Camber Diagram does not include allowances for falsework settlement

CAMBER DIAGRAM
NO SCALE

NOTES:

1. Transverse Reinforcement placed parallel to Abutments and spaced along "G" Line.
2. Place 2" PVC conduit on bottom steel reinforcement.
3. No splices allowed in bottom longitudinal reinforcement.

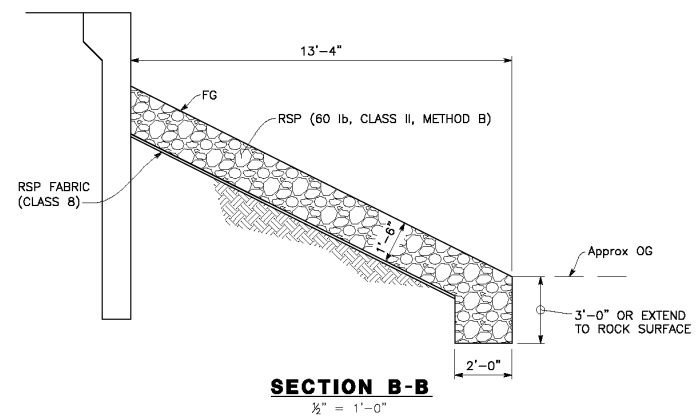
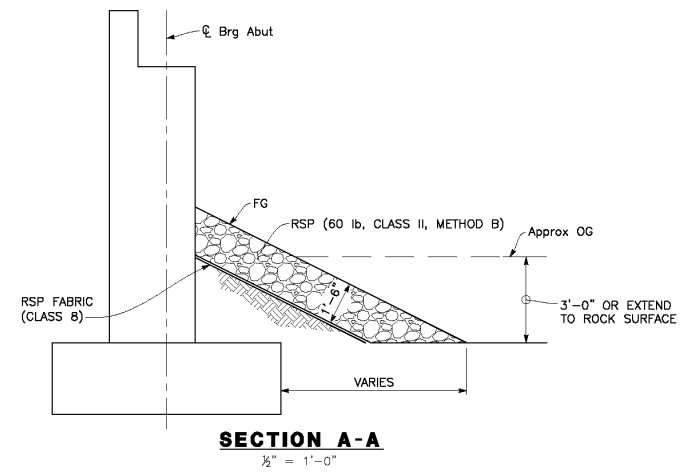
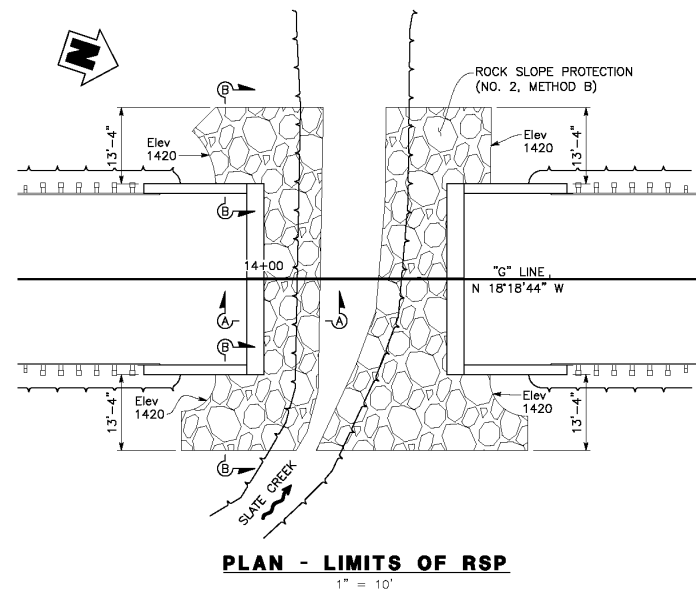


BOTTOM LONGITUDINAL REINFORCEMENT
NO SCALE

TYPICAL SECTION SCALE AS SHOWN

DESIGNED: BH CHECKED: KL ROAD NUMBER: XXXX		DRAWN: KD DATE: 02/08/19		COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	GREENSTONE ROAD AT SLATE CREEK BRIDGE REPLACEMENT	SHEET S-8 28 OF 30 77137
REGISTERED CIVIL ENGINEER		DATE:				

ORIGINAL SCALE IS IN INCHES
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 REVISION
 NUMBER DATE DESCRIPTION BY



ROCK SLOPE PROTECTION
SCALE AS SHOWN

NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER

DESIGNED: BH SHAN
 CHECKED: KL DATE: 02/08/19
 ROAD NUMBER: XXXX

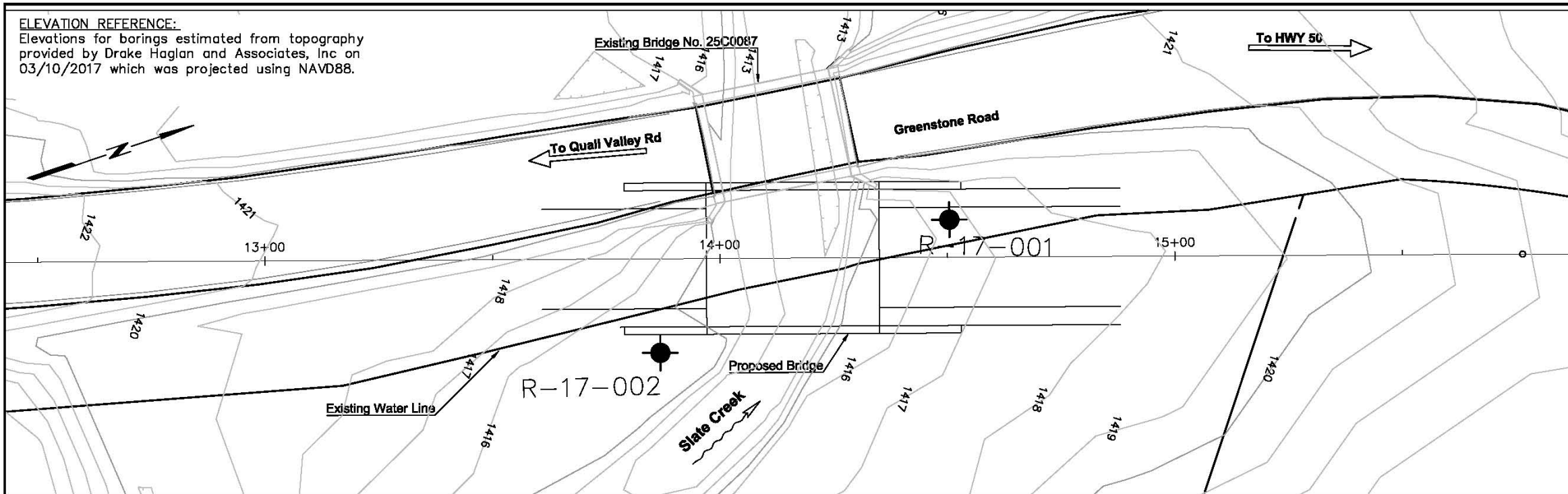


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

GREENSTONE ROAD AT SLATE CREEK
BRIDGE REPLACEMENT

SHEET S-9
 29 OF 30
 77137

ELEVATION REFERENCE:
Elevations for borings estimated from topography provided by Drake Haglan and Associates, Inc on 03/10/2017 which was projected using NAVD88.



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

CERTIFIED ENGINEERING GEOLOGIST DATE _____
 PLANS APPROVAL DATE _____

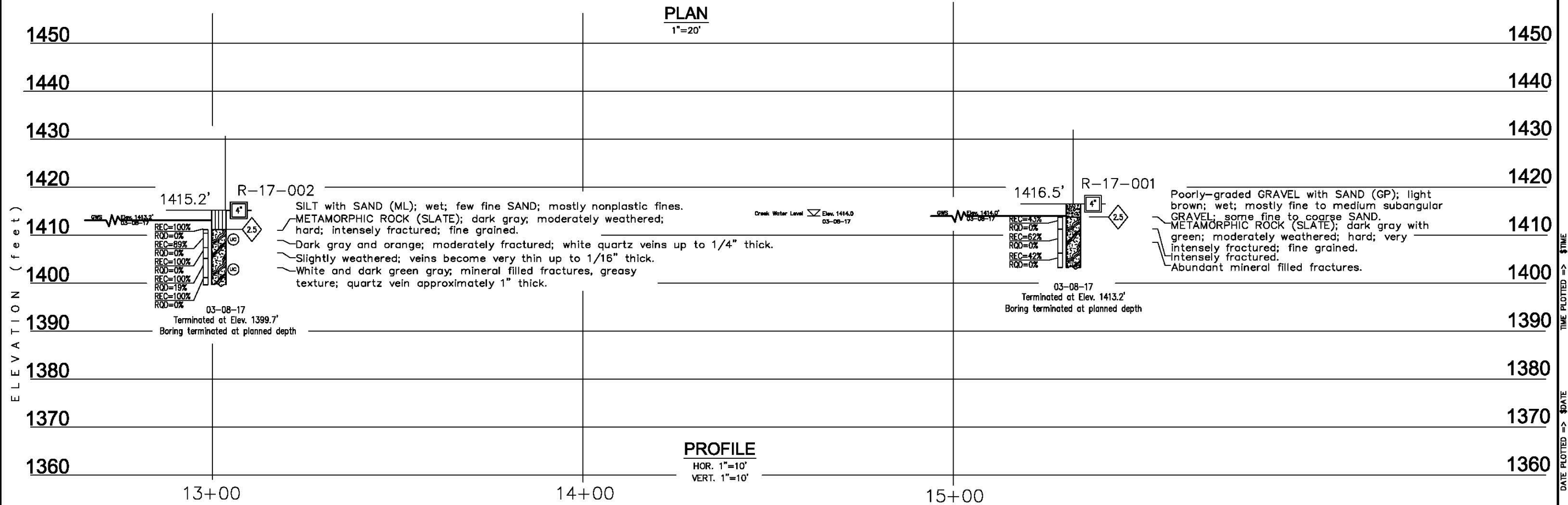
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WRECO
 8331 SIERRA COLLEGE BLVD.
 ROSEVILLE, CALIFORNIA 95661 WRECO JOB NO.: P17021

County of El Dorado
 Community Development Agency Transportation Division
 2850 Fairlane Court
 Placerville, CA 95667

- Notes:
1. Field classification of soils and rock was in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010 Edition).
 2. The length of each sampled interval is shown graphically on the boring log.
 3. 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).
 4. Boring locations were measuring in the field based on existing site features and correlated to topographic survey provided by Drake Haglan and Associates, Inc on 03/10/2017.
 5. Electronic media for plan view provided by Drake Haglan and Associates, Inc on 03/10/2017.

PLAN
1"=20'



ENGINEERING SERVICES		GEOTECHNICAL SERVICES		PREPARED FOR THE EL DORADO COUNTY COMMUNITY DEVELOPMENT AGENCY	BRIDGE NO. XXX-XXXX	Greenstone Road Over Slate Creek Bridge Replacement
FUNCTIONAL SUPERVISOR Name	DRAWN BY: D. Lukashov CHECKED BY: D. Kitzmann	FIELD INVESTIGATION BY: D. Lukashov	DATE: 03-08-17		PROJECT ENGINEER XX	
O&S CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU XXXXXX EA XXXXXX	DISREGARD PRINTS BEARING EARLIER REVISION DATES
				0 1 2 3	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF XX XX