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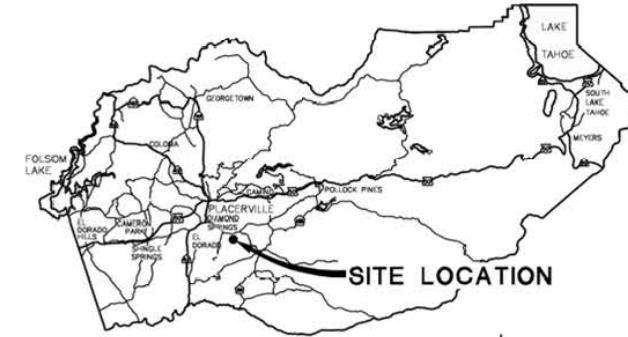
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**COUNTY OF EL DORADO, CA
DEPARTMENT OF TRANSPORTATION**

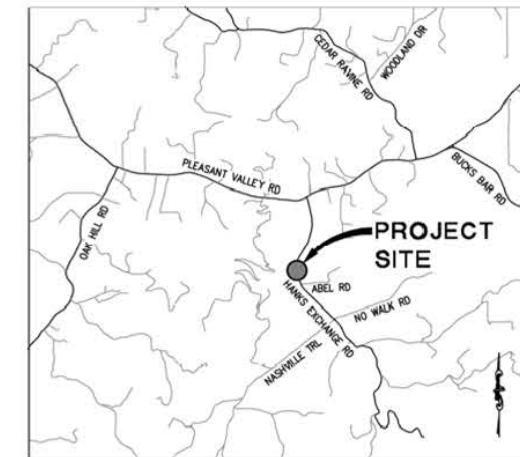
**PROJECT PLANS FOR THE CONSTRUCTION OF
HANKS EXCHANGE RD AT
SQUAW HOLLOW CREEK**

IN THE COUNTY OF EL DORADO, DISTRICTS 2 AND 3
ON HANKS EXCHANGE ROAD APPROXIMATELY 0.42 MILES SOUTH OF
THE PLEASANT VALLEY RD INTERSECTION

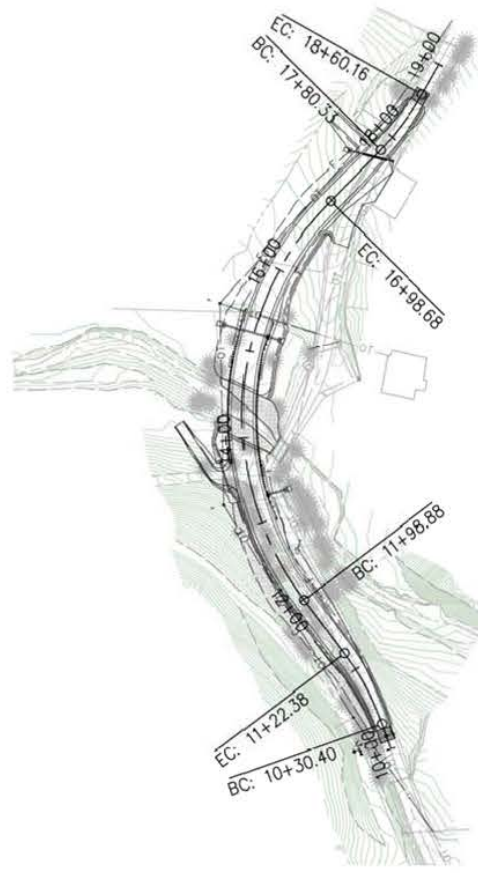
To be supplemented with Standard Plans and Specifications dated 2015, including
the 2015 Revised Standard Specifications, of the California Department of
Transportation, unless otherwise noted.



VICINITY MAP
COUNTY OF EL DORADO



LOCATION MAP
NOT TO SCALE



SITE PLAN
SCALE: 1"=100'

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



SUBMITTED BY: *Zachary S. Oates* 02/07/20
DATE
CIVIL ENGINEER
STATE OF CALIFORNIA NO. C84705

EL DORADO IRRIGATION DISTRICT
APPROVED BY: *[Signature]* 2/3/20
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:

BRIAN VEERKAMP CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS	DATE
APPROVED BY:	DATE
RAFAEL MARTINEZ, DIRECTOR DEPARTMENT OF TRANSPORTATION	DATE
JOHN WALING, P.E., NO. C52426 DEPUTY DIRECTOR, TRANSPORTATION	DATE

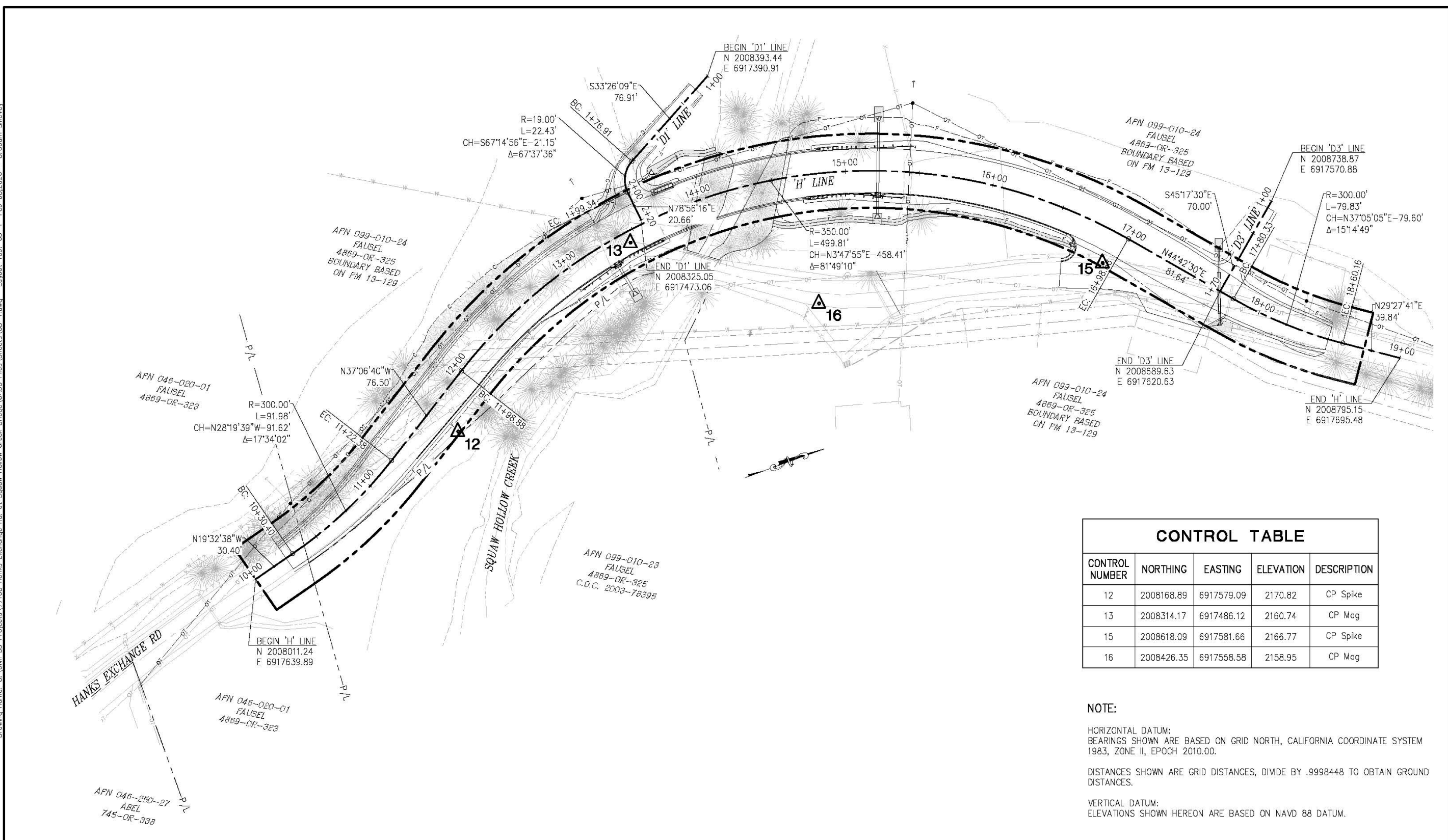
CONTRACT NO. 3916 PROJECT NO. 77135

**HANKS EXCHANGE RD AT
SQUAW HOLLOW CREEK**

TITLE SHEET

SHEET 1 OF 44

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 2
 1
 0



CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
12	2008168.89	6917579.09	2170.82	CP Spike
13	2008314.17	6917486.12	2160.74	CP Mag
15	2008618.09	6917581.66	2166.77	CP Spike
16	2008426.35	6917558.58	2158.95	CP Mag

NOTE:

HORIZONTAL DATUM:
 BEARINGS SHOWN ARE BASED ON GRID NORTH, CALIFORNIA COORDINATE SYSTEM 1983, ZONE II, EPOCH 2010.00.

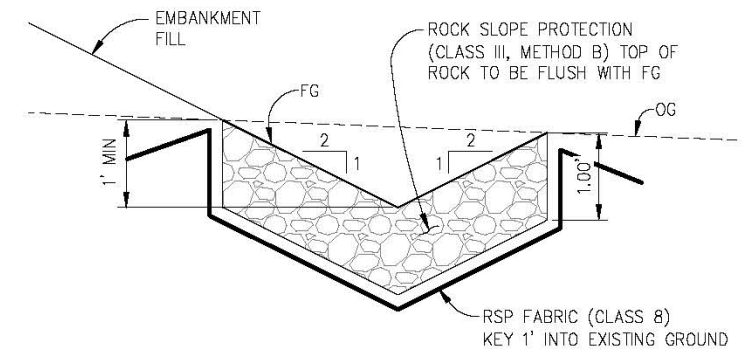
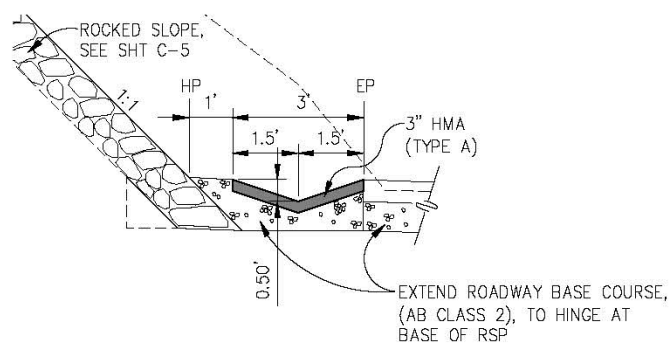
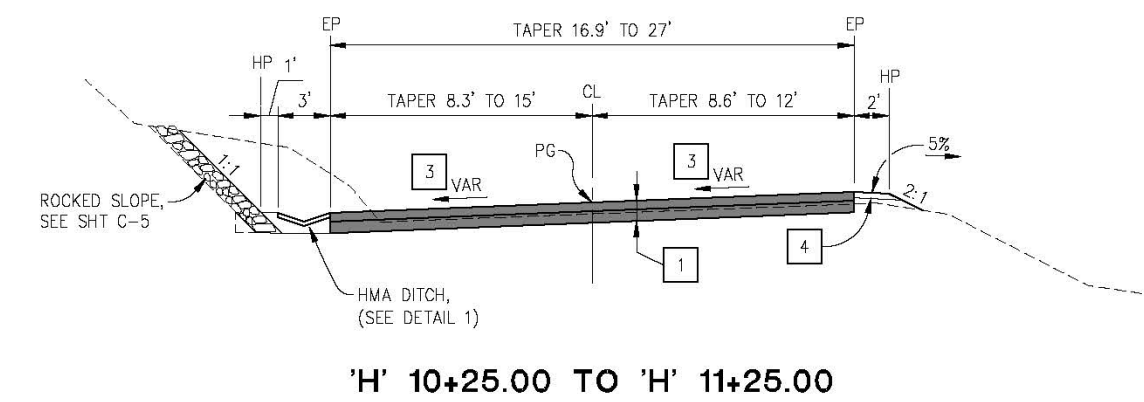
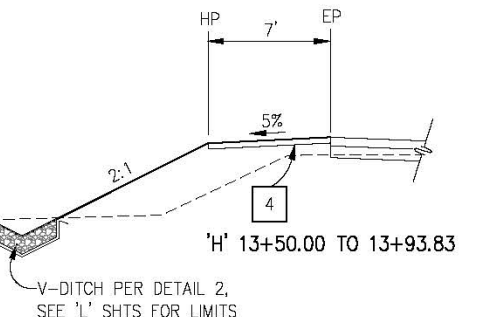
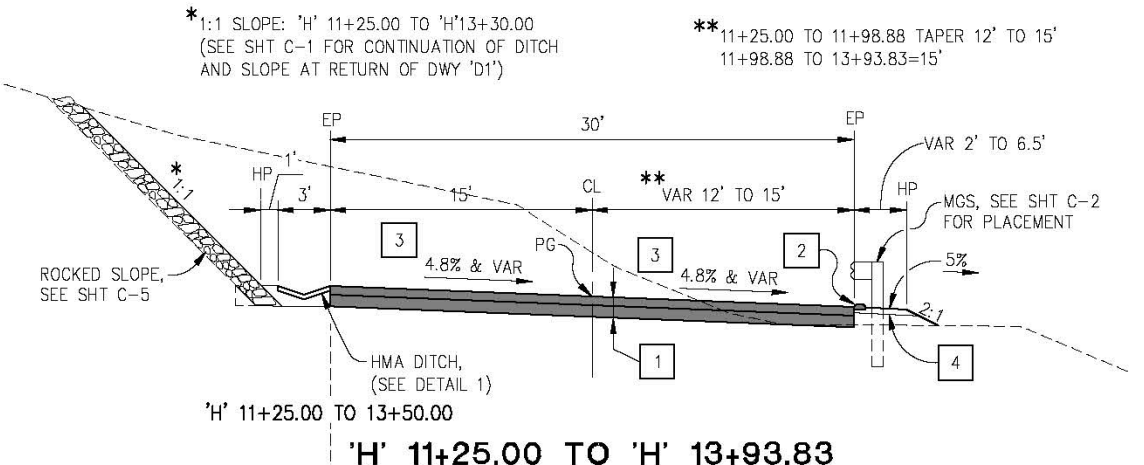
DISTANCES SHOWN ARE GRID DISTANCES, DIVIDE BY .9998448 TO OBTAIN GROUND DISTANCES.

VERTICAL DATUM:
 ELEVATIONS SHOWN HEREON ARE BASED ON NAVD 88 DATUM.

**SURVEY AND CONTROL DIAGRAM
 SCALE : 1" = 30'**

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISION</th> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISION	NUMBER	DATE	DESCRIPTION	BY							PREPARED UNDER THE SUPERVISION OF: <i>Joseph C. Neely</i> PROFESSIONAL LAND SURVEYOR DATE: 02/07/20	DESIGNED: JN DRAWN: SGM CHECKED: JN DATE: 01/24/20 ROAD NUMBER: 032	<p>COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION</p>	<p>HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK</p>	SHEET CD-1 2 OF 44 W.D. No. 77135
REVISION	NUMBER	DATE	DESCRIPTION	BY												

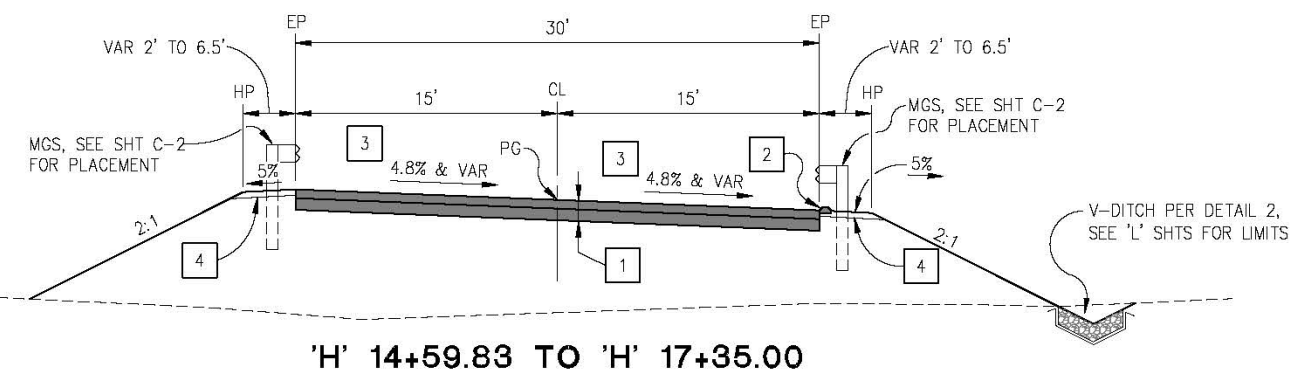
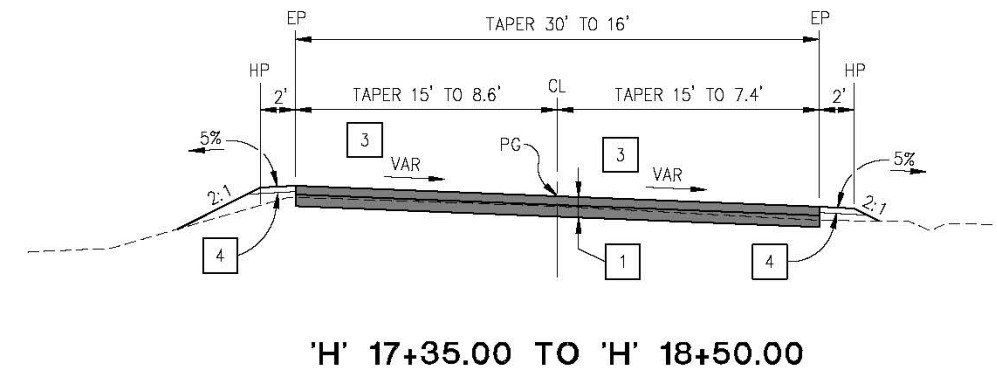
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 FOR REDUCED PLANS
 2
 1
 0



1 HMA DITCH
NTS

2 V-DITCH
NTS

- CONSTRUCTION NOTES:**
- 1 — 6" HMA (TYPE A)
8" AB (CLASS 2)
 - 2 — HMA DIKE, TYPE AND LIMITS VARY, SEE 'L' SHEETS
 - 3 — CROSS SLOPE VARIES, SEE 'P' SHEETS FOR SUPER ELEVATION DIAGRAM
 - 4 — 4" SHOULDER BACKING, LIMITS VARY, SEE SHT 'L' SHTS



TYPICAL SECTIONS
SCALE : NONE

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Zachary S. Oates
 REGISTERED CIVIL ENGINEER
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 02/05/20
 ROAD NUMBER: 032

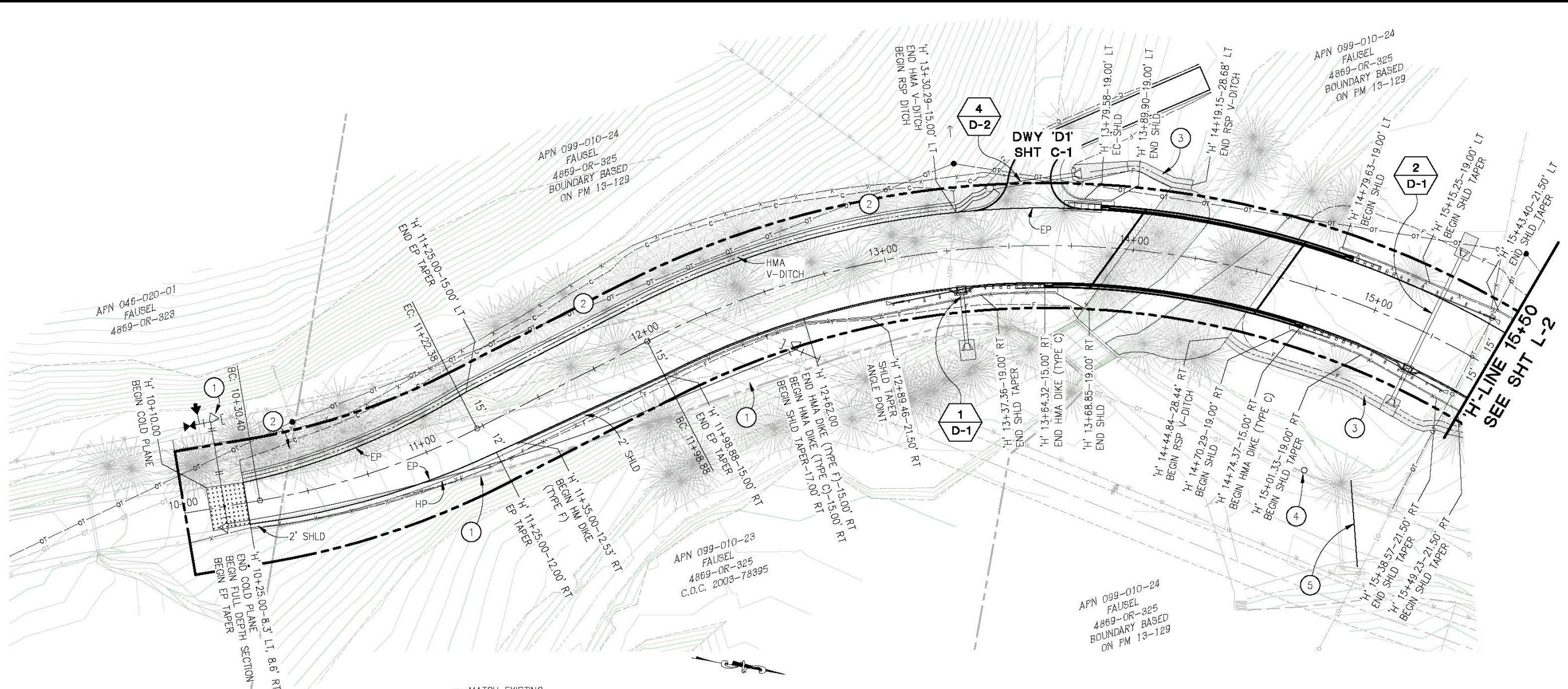


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

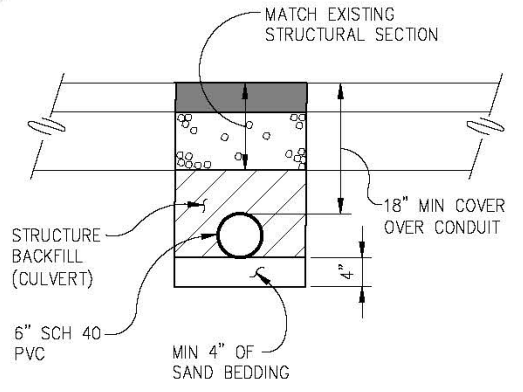
HANKS EXCHANGE RD AT SQUAW
 HOLLOW CREEK

SHEET
X-1
 3 OF 44
 R.O. No. **77135**

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 FOR REDUCED PLANS
 2
 1
 0



'H' LINE - PLAN
SCALE: 1"=20'



CONDUIT DETAIL
SCALE: 1"=20'

LEGEND

- STORM DRAINAGE SYSTEM NUMBER
- DETAIL SHEET NUMBER

CONSTRUCTION NOTES:

- ① - SEE 'W' SHEETS FOR WATERLINE RELOCATION
- ② - SEE SHT C-5 FOR ROCKED SLOPE DETAILS
- ③ - RSP V-DITCH, SEE ② X-1
- ④ - EXISTING MAILBOX, TEMPORARILY RELOCATE PRIOR TO CONSTRUCTION
- ⑤ - 6" CONDUIT UNDER EXISTING ROADWAY AT APPROX STA 15+32 (SEE DETAIL, THIS SHT)

LAYOUT
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 02/07/20

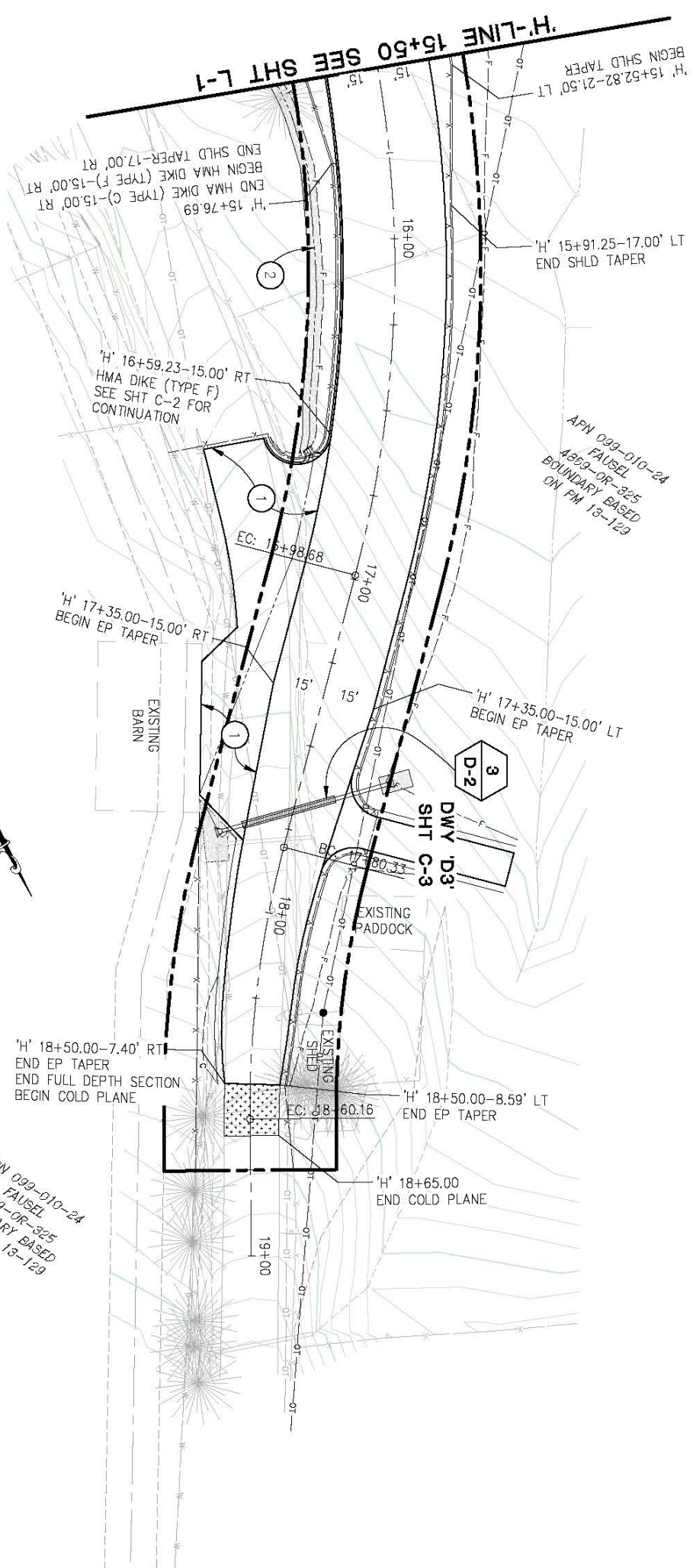
DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 10/04/19
 ROAD NUMBER: 032



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW
HOLLOW CREEK

SHEET
L-1
 4 OF 44
 R.O. No. **77135**

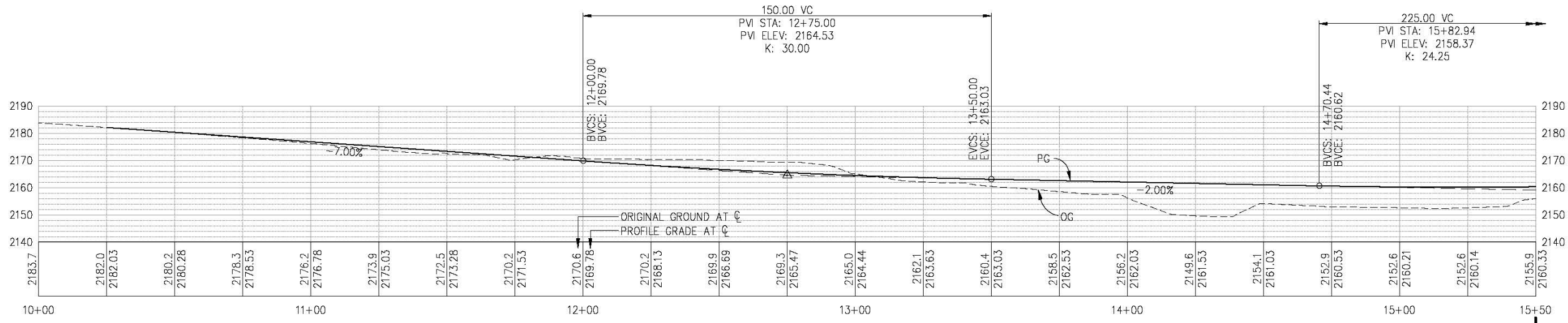


'H' LINE - PLAN
 SCALE: 1"=20'

CONSTRUCTION NOTES:

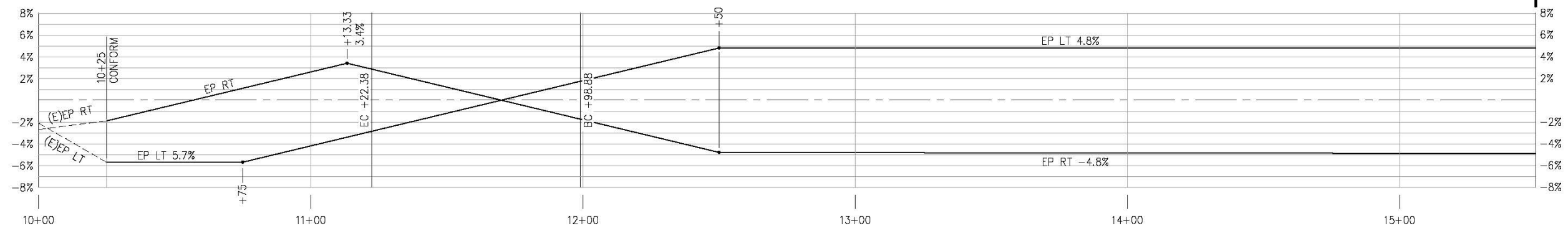
- ① — DWY 'D2', SEE SHT C-2
- ② — RSP V-DITCH SEE SHT C-2

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'H' LINE - PROFILE

SCALE: 1"=20' H,V



'H' LINE - SUPERELEVATION

'H'-LINE 15+50
 SEE SHT P-2

PROFILE AND SUPERELEVATION
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Zachary S. Oates
 REGISTERED CIVIL ENGINEER
 DATE: 02/07/20

DESIGNED: ZO DRAWN: SGM
 CHECKED: CC DATE: 12/09/19
 ROAD NUMBER: 032

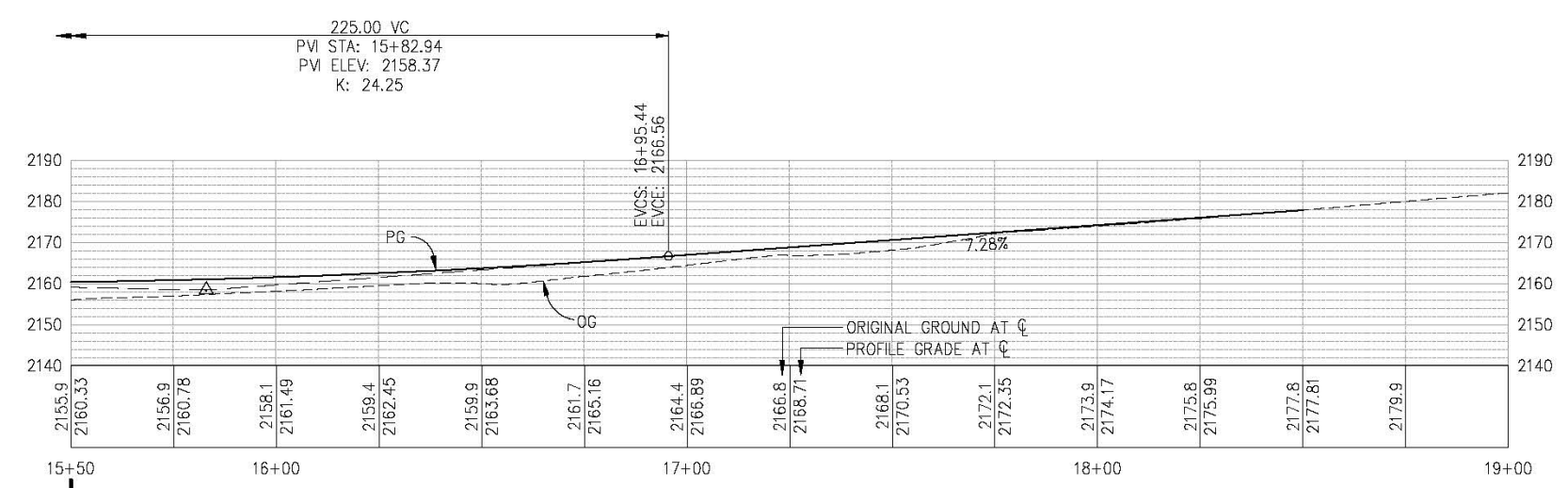


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

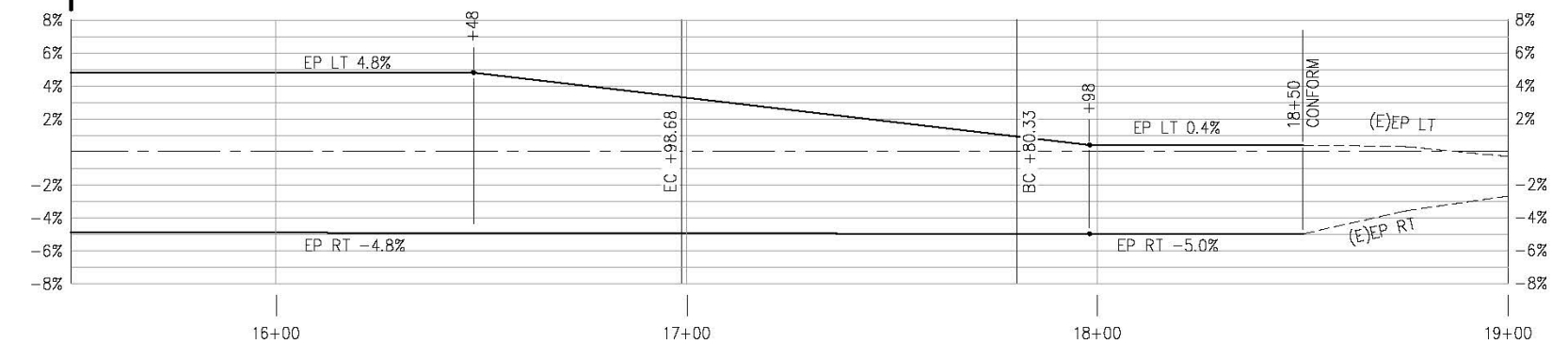
HANKS EXCHANGE RD AT SQUAW
HOLLOW CREEK

SHEET
P-1
6 OF 44
W.D. No. 77135

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



'H' LINE - SUPERELEVATION

PROFILE AND SUPERELEVATION
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Zachary S. Oates
 REGISTERED CIVIL ENGINEER
 License Expires 02-31-22
 CIVIL
 STATE OF CALIFORNIA
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 12/09/19
 ROAD NUMBER: 032

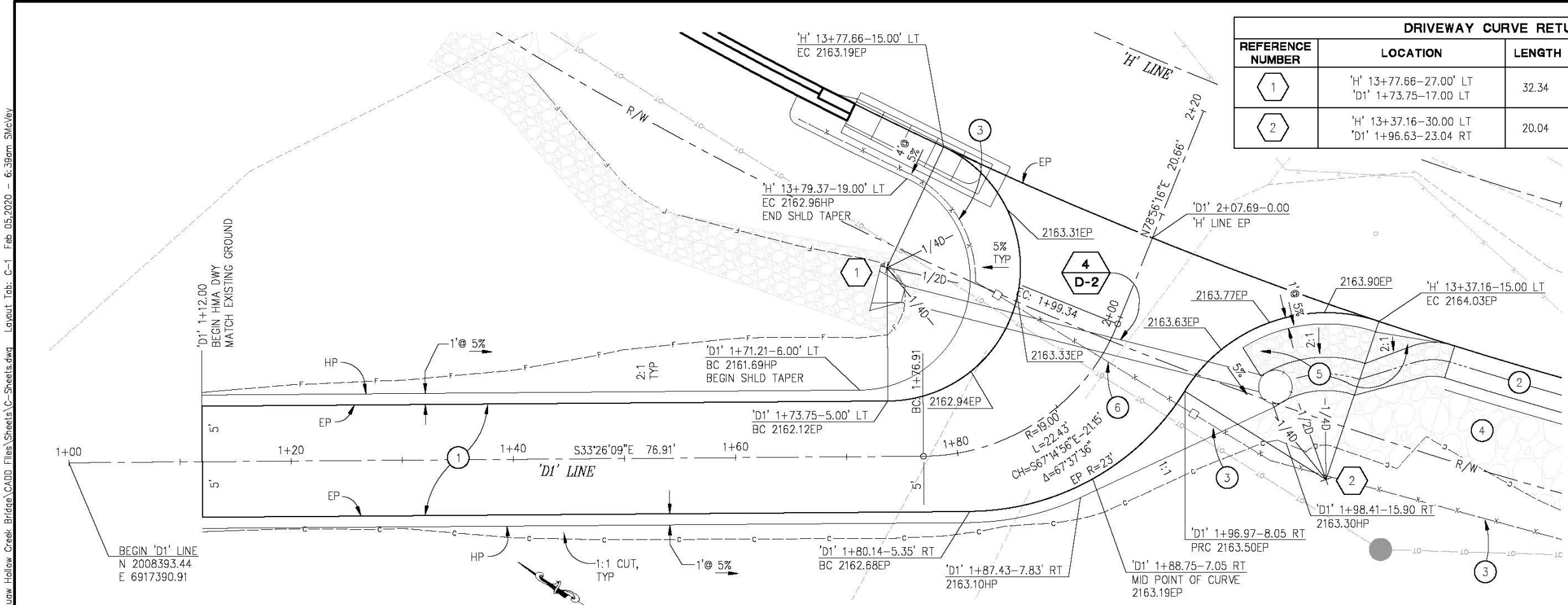


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW
HOLLOW CREEK

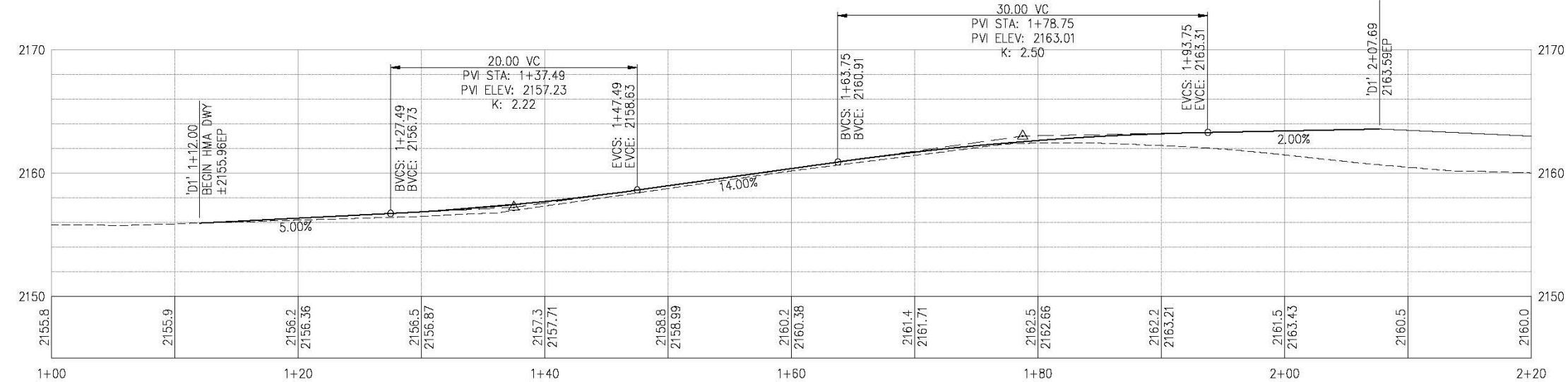
SHEET
P-2
7 OF 44
R.O. No. **77135**

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 FOR REDUCED PLANS
 2
 1
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DRIVEWAY CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'H' 13+77.66-27.00' LT 'D1' 1+73.75-17.00' LT	32.34	12 TO EP	154°24'31"	N69°21'36"E 23.40
2	'H' 13+37.16-30.00' LT 'D1' 1+96.63-23.04' RT	20.04	15 TO EP	76°33'18"	N52°45'05"W 18.58

DRIVEWAY 'D1' - PLAN
SCALE: 1"=5'



DRIVEWAY 'D1' - PROFILE
SCALE: 1"=5' H,V

- CONSTRUCTION NOTES:**
- 1 — 3" HMA (TYPE A) OVER 5" AB (CLASS 2)
 - 2 — HMA V-DITCH, SEE SHT X-1 FOR DETAILS
 - 3 — FENCE, SEE SHT C-4 FOR DETAILS
 - 4 — ROCKED SLOPE, SEE SHT C-5
 - 5 — RSP DITCH, SEE SECTION B-B, SHT C-5 FOR DETAILS
 - 6 — 2-10' GATES SET ON 8"x8" PT POSTS

CONSTRUCTION DETAILS
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Zachary S. Oates
 REGISTERED CIVIL ENGINEER
 LICENSE EXPIRES 02/07/20
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 12/09/19
 ROAD NUMBER: 032



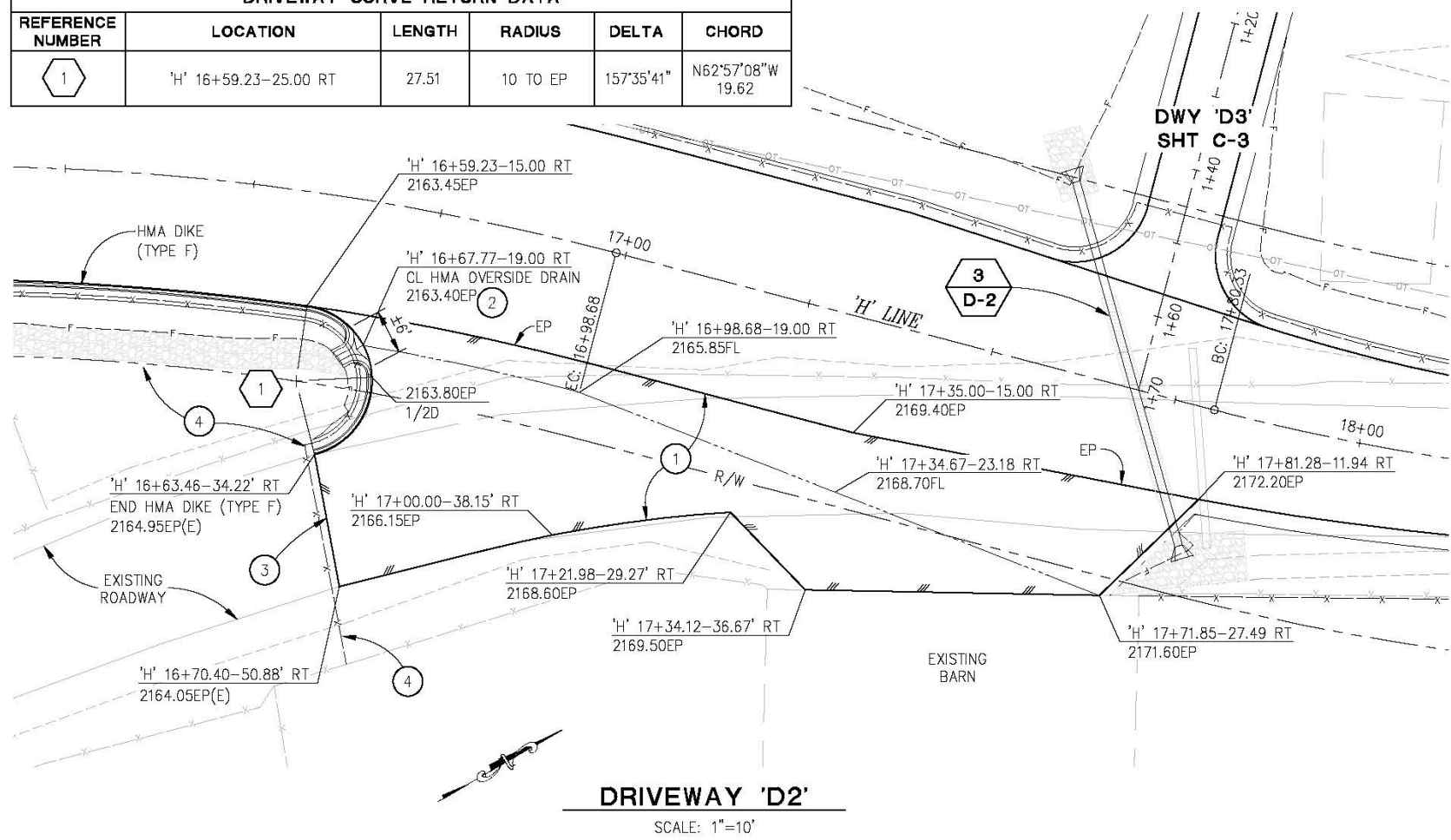
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK

SHEET
C-1
8 OF 44
R.O. No. **77135**

ORIGINAL SCALE IS IN INCHES
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DRIVEWAY CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'H' 16+59.23-25.00 RT	27.51	10 TO EP	157°35'41"	N62°57'08"W 19.62



- CONSTRUCTION NOTES:**
- 1 — 6" HMA (TYPE A) OVER 8" AB (CLASS 2)
 - 2 — HMA OVERSIDE DRAIN, SEE STD PLAN D87D FOR ADDITIONAL DETAILS
 - 3 — SAWCUT TO A CLEAN UNIFORM LINE AND CONFORM DRIVEWAY WITH EXISTING ROADWAY
 - 4 — FENCE, SEE SHT C-4 FOR DETAILS

DRIVEWAY 'D2'
SCALE: 1"=10'

CONSTRUCTION DETAILS
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Zachary S. Oates
 REGISTERED CIVIL ENGINEER
 License Expires 02-31-22
 CIVIL
 STATE OF CALIFORNIA
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 12/09/19
 ROAD NUMBER: 032

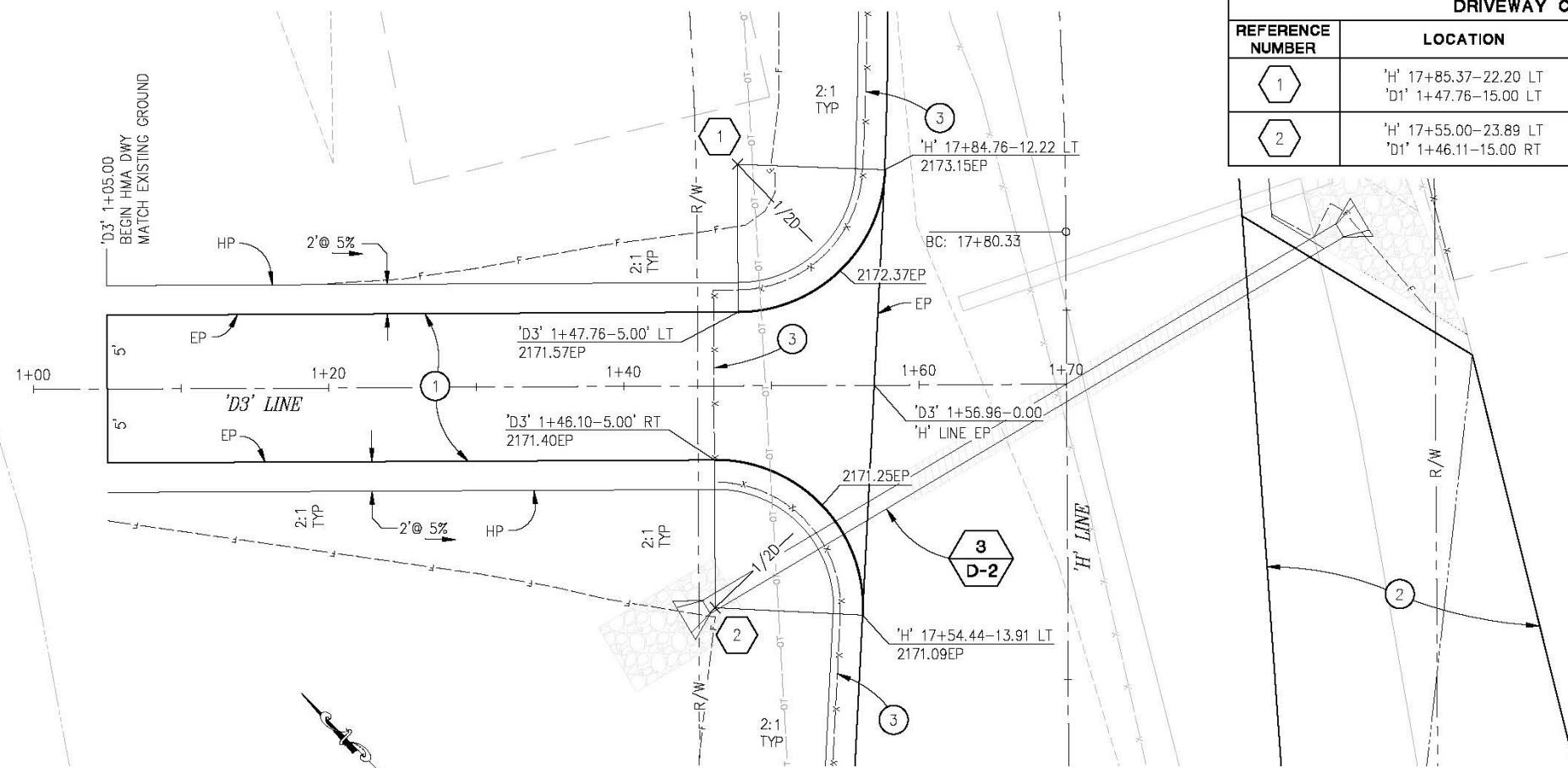


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK

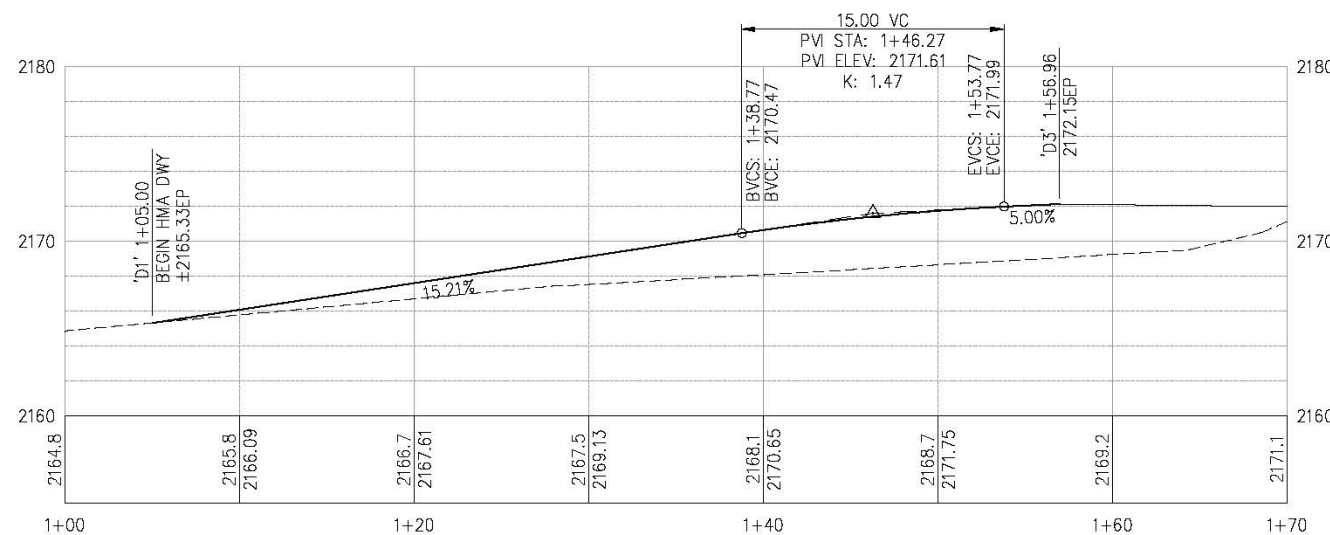
SHEET
C-2
9 OF 44
R.O. No. **77135**

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 FOR REDUCED PLANS
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DRIVEWAY 'D3' - PLAN

SCALE: 1"=5'



DRIVEWAY 'D3' - PROFILE

SCALE: 1"=5' H,V

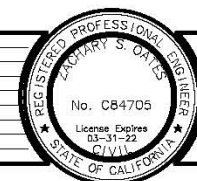
DRIVEWAY CURVE RETURN DATA					
REFERENCE NUMBER	LOCATION	LENGTH	RADIUS	DELTA	CHORD
1	'H' 17+85.37-22.20 LT 'D1' 1+47.76-15.00 LT	15.28	10 TO EP	87°34'08"	N89°04'32"W 13.84
2	'H' 17+55.00-23.89 LT 'D1' 1+46.11-15.00 RT	16.27	10 TO EP	93°12'32"	N01°18'43"E 14.53

CONSTRUCTION NOTES:

- ① — 3" HMA (TYPE A) OVER 5" AB (CLASS 2)
- ② — DWY 'D2', SEE SHT C-2
- ③ — FENCE, SEE SHT C-4 FOR DETAILS

CONSTRUCTION DETAILS
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Zachary S. Oates
 REGISTERED CIVIL ENGINEER
 License Expires 02-31-22
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 12/09/19
 ROAD NUMBER: 032

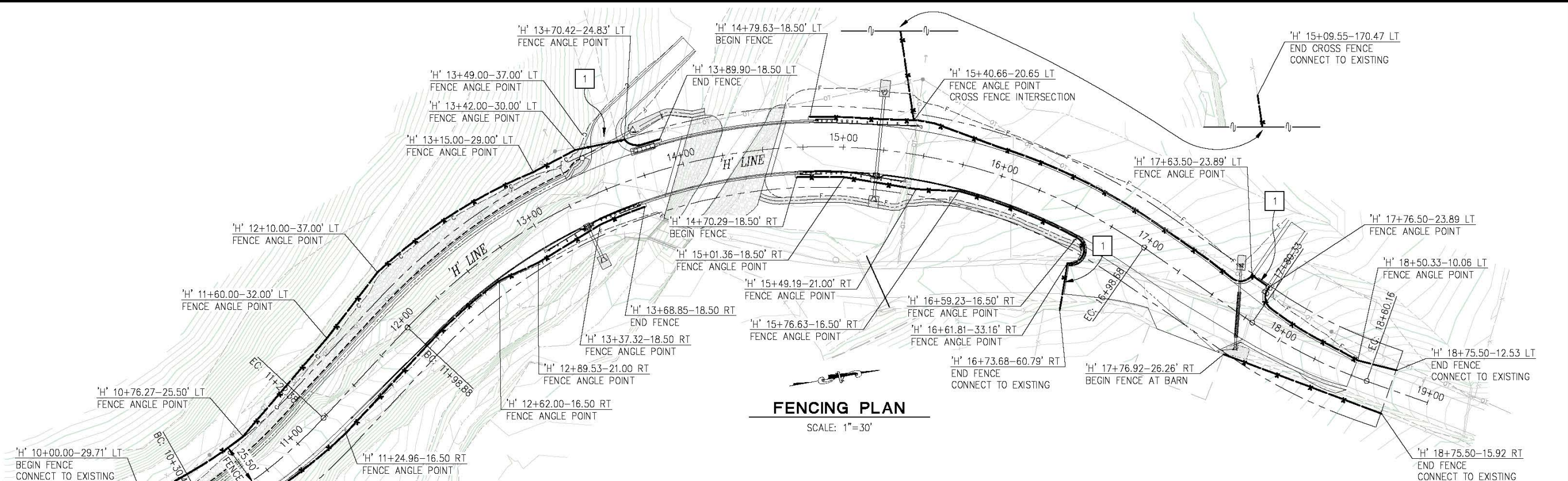


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW
HOLLOW CREEK

SHEET
C-3
10 OF 44
R.O. No. **77135**

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 FOR REDUCED PLANS
 2"
 1"
 0"



FENCING PLAN
SCALE: 1"=30'

GUARDRAIL (MGS) GENERAL NOTES:

- STATIONS AND OFFSETS ARE TO CENTER OF POST AT OUTSIDE FACE OF RAIL ELEMENT
- APPLY STAIN TO GALVANIZED SURFACES OF ALL MGS (WOOD POST), TRANSITION RAILING (TYPE WB-31), AND TERMINAL SYSTEMS

GUARDRAIL (MGS) CONSTRUCTION NOTES:

STATIONS AND OFFSETS ARE APPROXIMATE, ADJUST LOCATIONS ACCORDINGLY TO FIT FIELD CONDITIONS

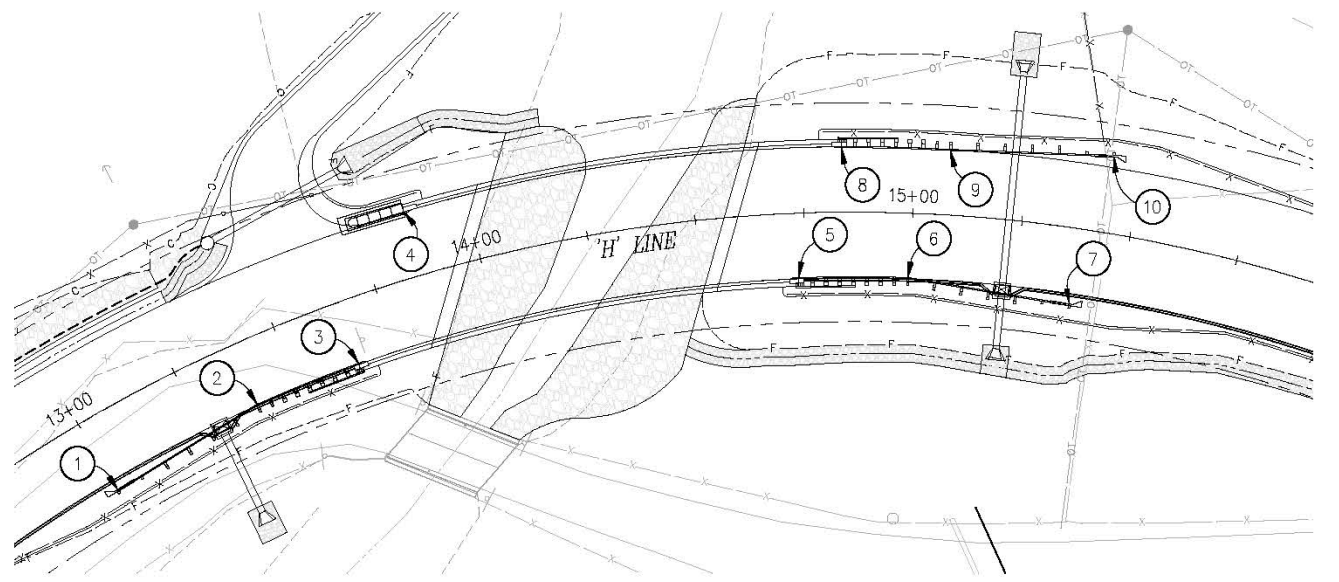
- | | |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| ① - 'H' 13+00.11-17.52 RT
BEGIN IN-LINE TERMINAL SYSTEM | ⑧ - 'H' 14+83.68-14.75 LT
BEGIN TRANSITION RAILING |
| ② - 'H' 13+39.37-14.75 RT
END IN-LINE TERMINAL SYSTEM
BEGIN TRANSITION RAILING, TYPE WB-31 | ⑨ - 'H' 15+07.66-14.75 LT
END TRANSITION RAILING
BEGIN TERMINAL SYSTEM |
| ③ - 'H' 13+65.49-14.75 RT
END TRANSITION RAILING | ⑩ - 'H' 15+43.43-17.52 LT
END TERMINAL SYSTEM |
| ④ - 'H' 13+86.14-15.00 LT
CRASH CUSHION (TEST LEVEL 2) | |
| ⑤ - 'H' 14+73.20-14.75 RT
BEGIN TRANSITION RAILING | |
| ⑥ - 'H' 14+99.32-14.75 RT
END TRANSITION RAILING
BEGIN IN-LINE TERMINAL SYSTEM | |
| ⑦ - 'H' 15+38.58-17.52 RT
END IN-LINE TERMINAL SYSTEM | |

FENCE GENERAL NOTES:

- FENCE SHALL BE TYPE WM, METAL POST, PER A86; UNLESS OTHERWISE NOTED
- UNLESS OTHERWISE NOTED, IN AREAS IMMEDIATELY ADJACENT TO ROADWAY OR DRIVEWAYS, FENCE IS TO BE PLACED 0.5' FROM SHOULDER HINGE POINT

FENCE CONSTRUCTION NOTES:

- ① - GATE, TYPE AND DIMENSIONS TO BE COORDINATED WITH ENGINEER AND PROPERTY OWNER



GUARDRAIL PLACEMENT DETAIL
SCALE: 1"=20'

CONSTRUCTION DETAILS
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 LICENSE EXPIRES 02-31-22
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 12/09/19
 ROAD NUMBER: 032

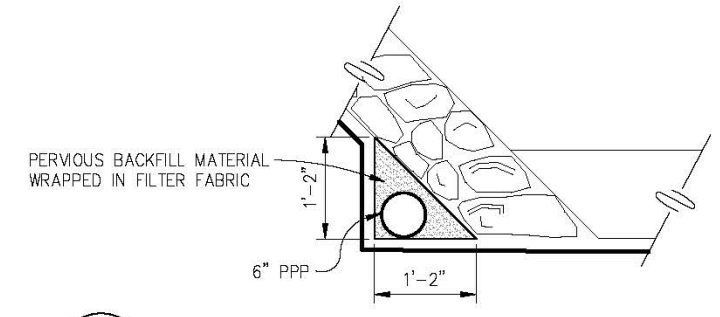
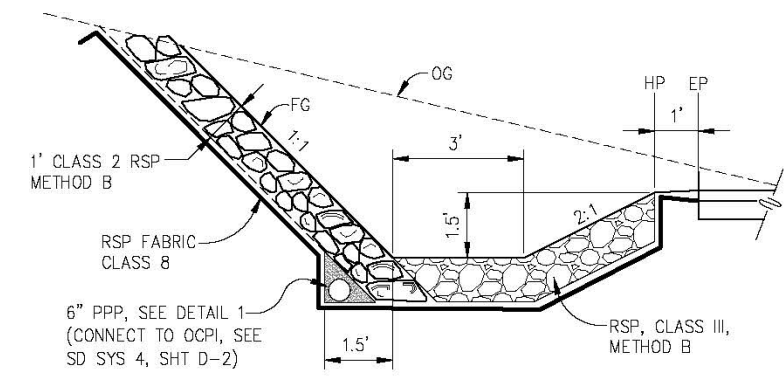
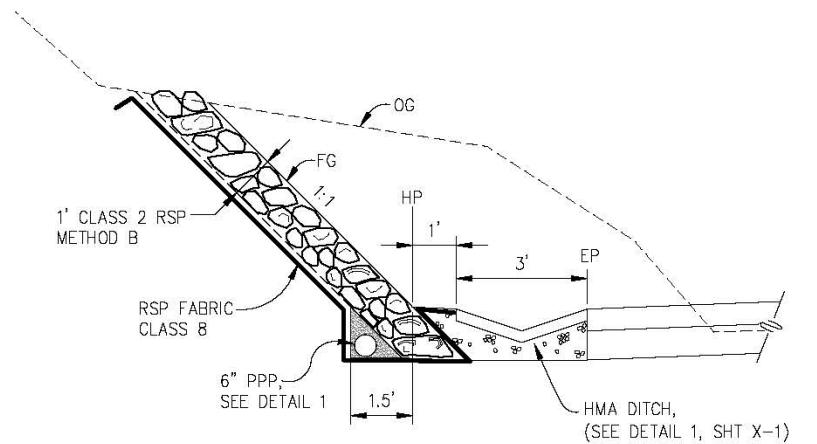
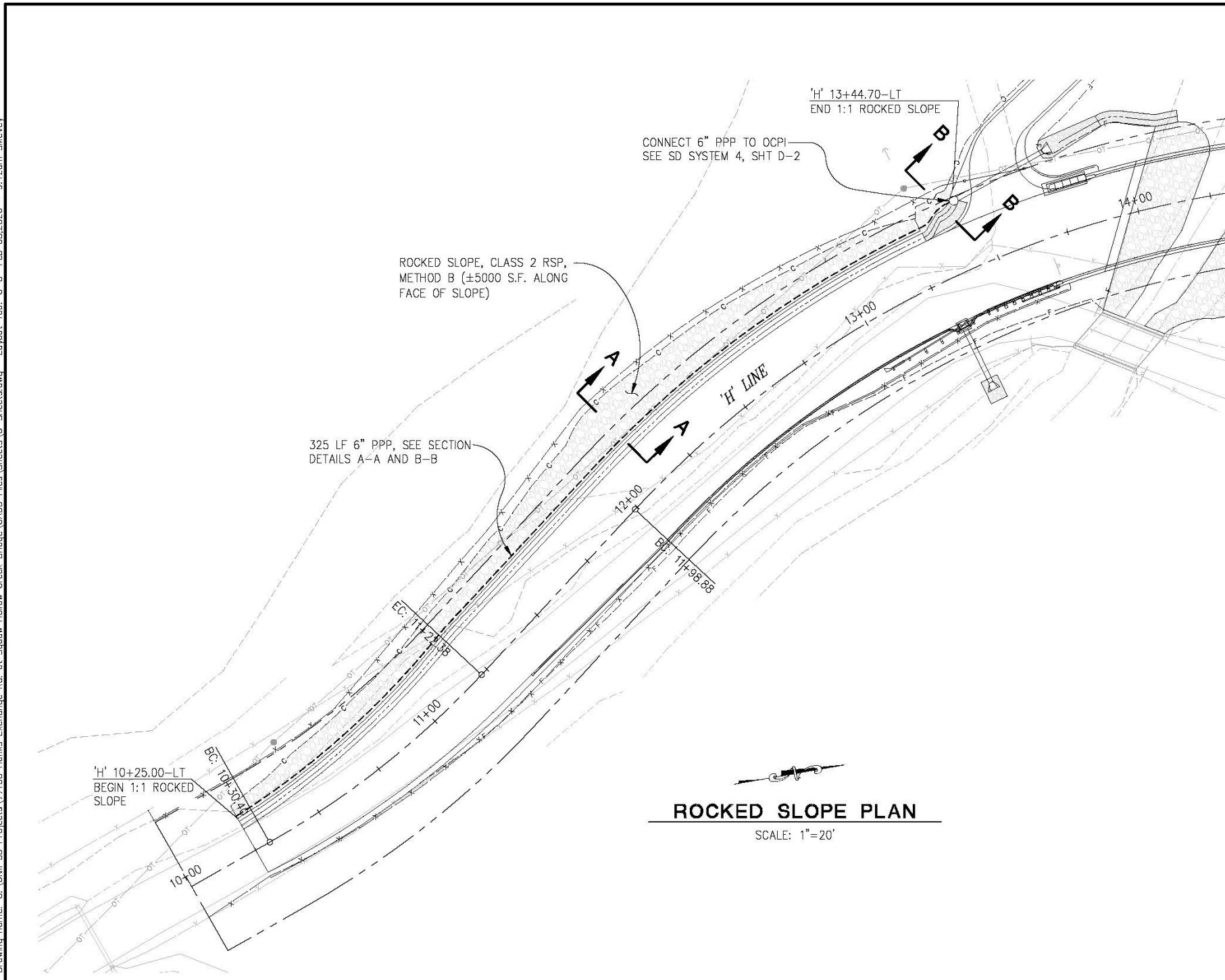


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK

SHEET
C-4
11 OF 44
R.O. No. **77135**

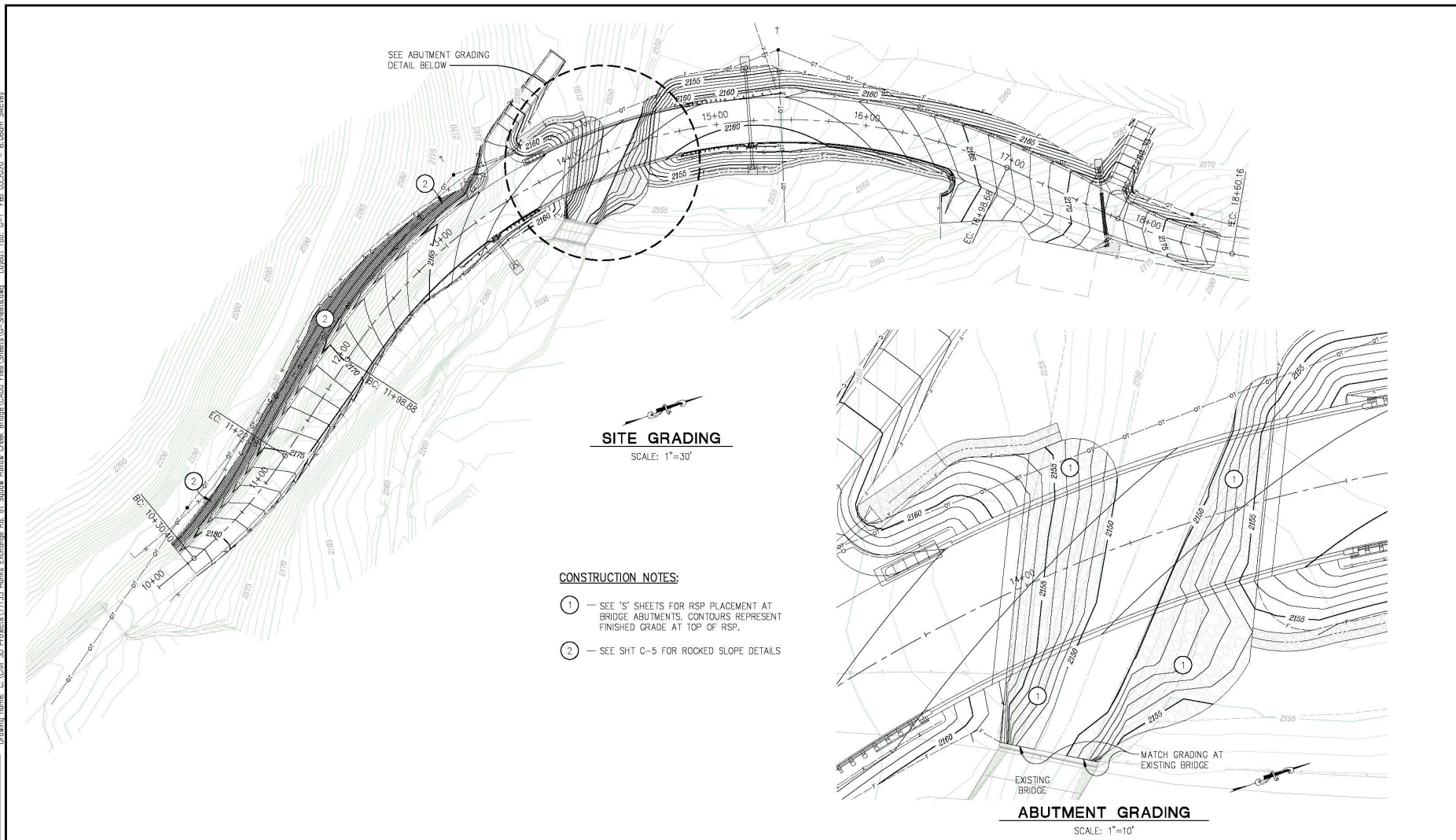
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 FOR REDUCED PLANS
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CONSTRUCTION DETAILS
 SCALE : AS SHOWN



		PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER DATE: 02/07/20	DESIGNED: ZO DRAWN: SGM CHECKED: CC DATE: 02/05/20 ROAD NUMBER: 032		COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK	SHEET C-5 12 OF 44 W.D. No. 77135
REVISION NUMBER DATE DESCRIPTION BY							

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

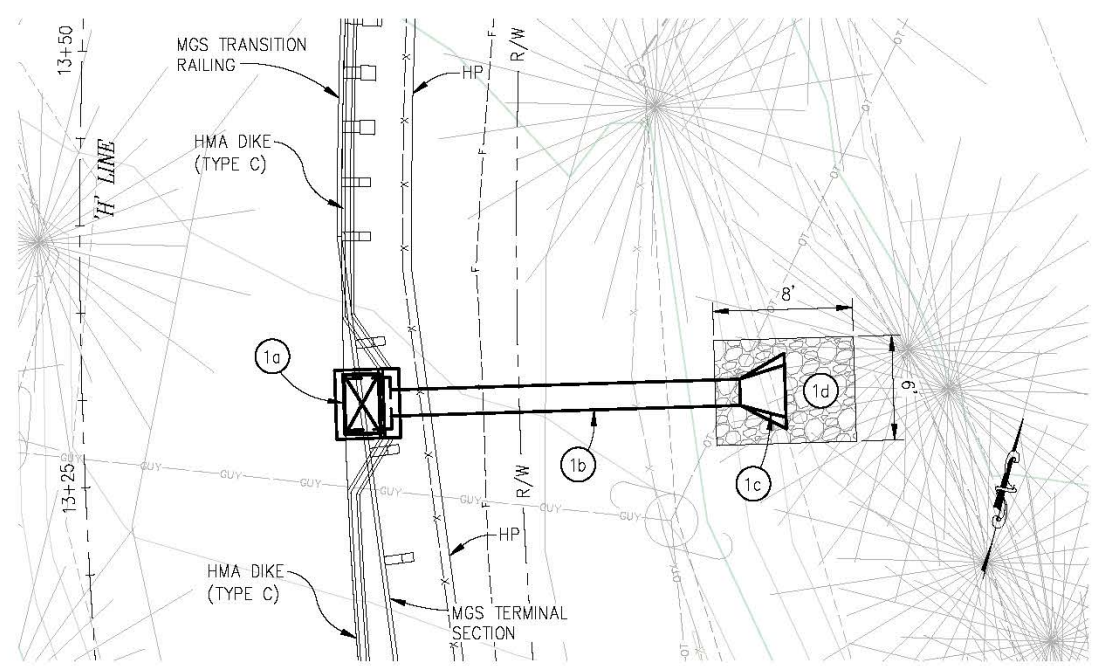


- CONSTRUCTION NOTES:**
- ① — SEE 'S' SHEETS FOR RSP PLACEMENT AT BRIDGE ABUTMENTS. CONTOURS REPRESENT FINISHED GRADE AT TOP OF RSP.
 - ② — SEE SHT C-5 FOR ROCKED SLOPE DETAILS

CONTOUR GRADING
SCALE : AS SHOWN

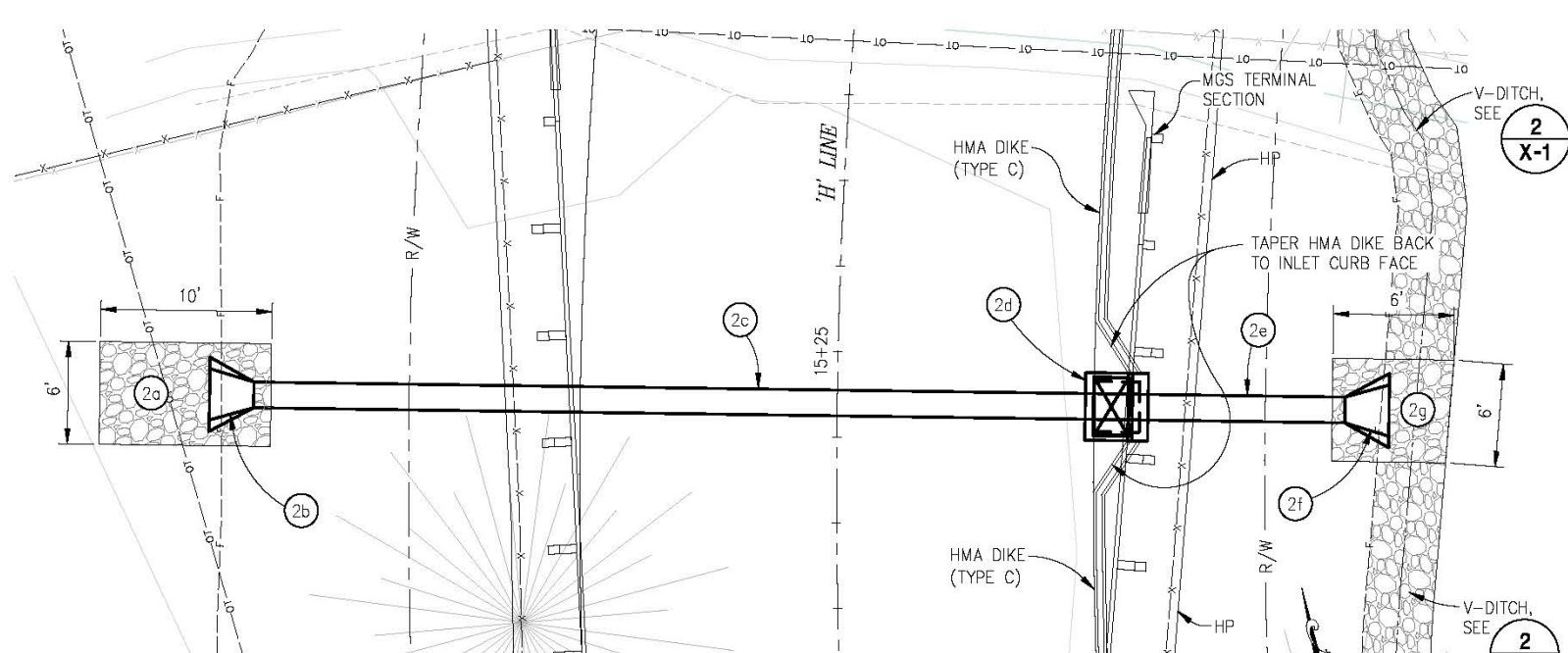
PREPARED UNDER THE SUPERVISION OF:  No. C84705 STATE OF CALIFORNIA	DESIGNED: ZO SGM	 COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK	SHEET G-1 13 OF 44 W.O. No. 77185
	CHECKED: CG DATE: 12/09/18 ROAD NUMBER: 032			

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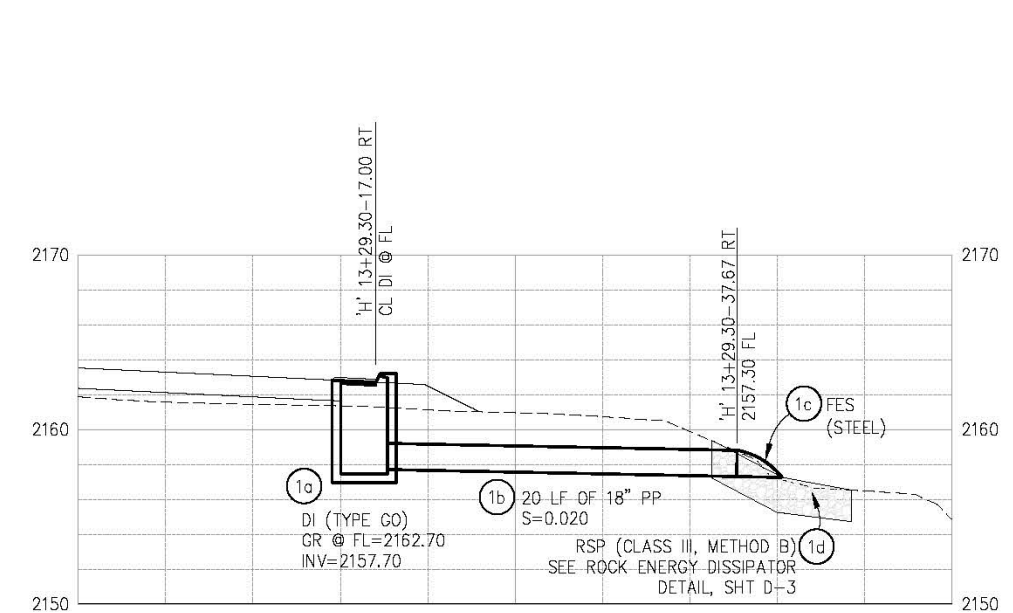
SD SYSTEM 1 - PLAN

SCALE: 1"=5'



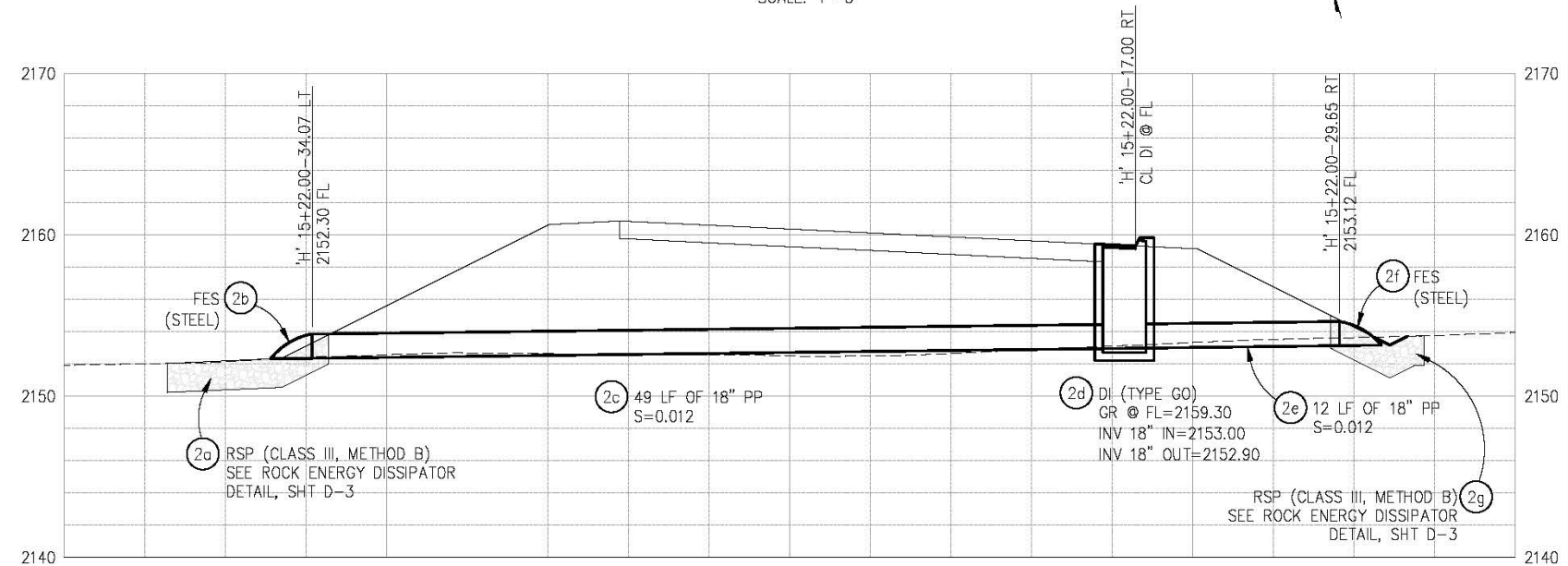
SD SYSTEM 2 - PLAN

SCALE: 1"=5'



SD SYSTEM 1 - PROFILE

SCALE: 1"=5' H,V



SD SYSTEM 2 - PROFILE

SCALE: 1"=5' H,V

THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY

DRAINAGE SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 12/09/19
 ROAD NUMBER: 032

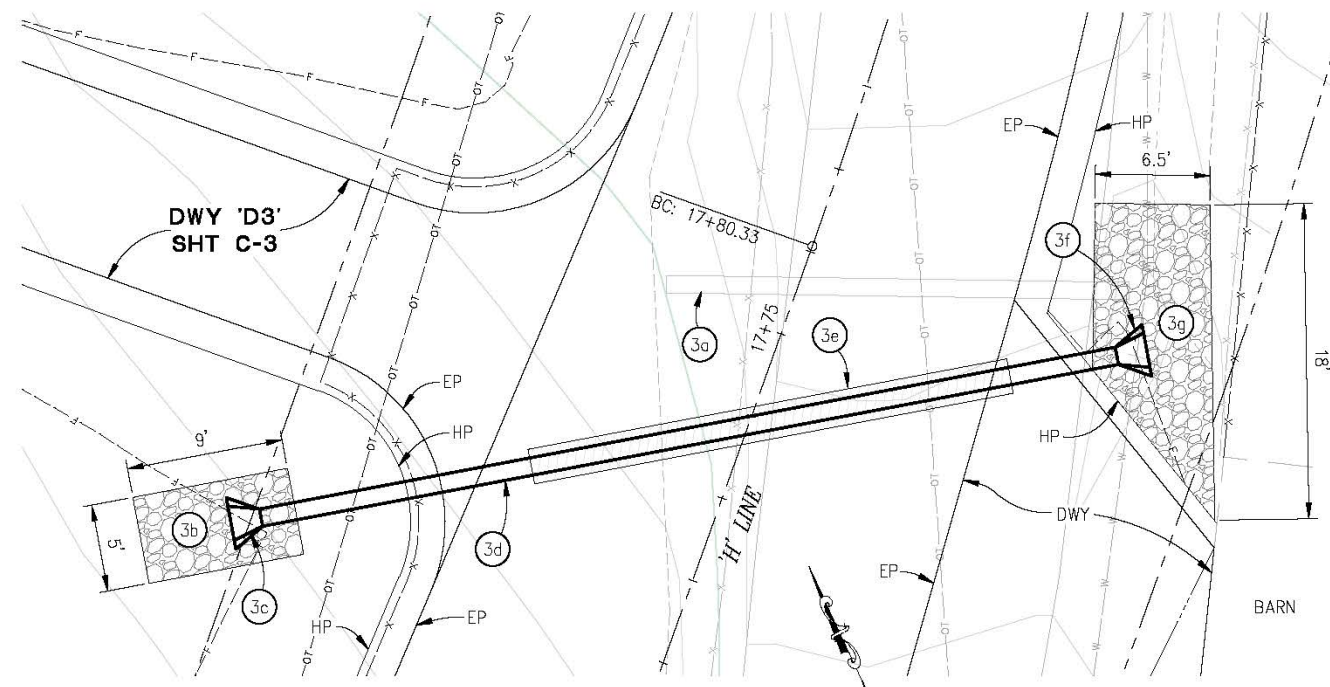


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

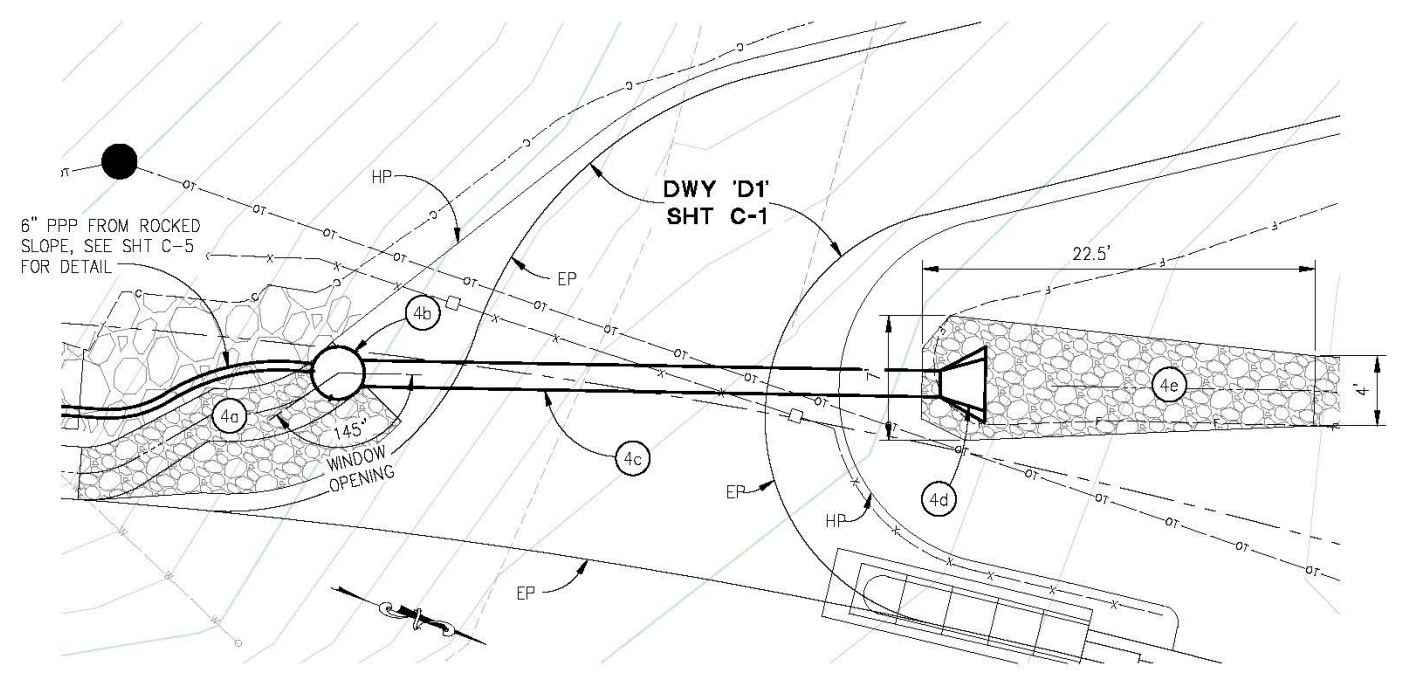
HANKS EXCHANGE RD AT SQUAW
HOLLOW CREEK

SHEET
D-1
 14 OF 44
 W.D. No. **77135**

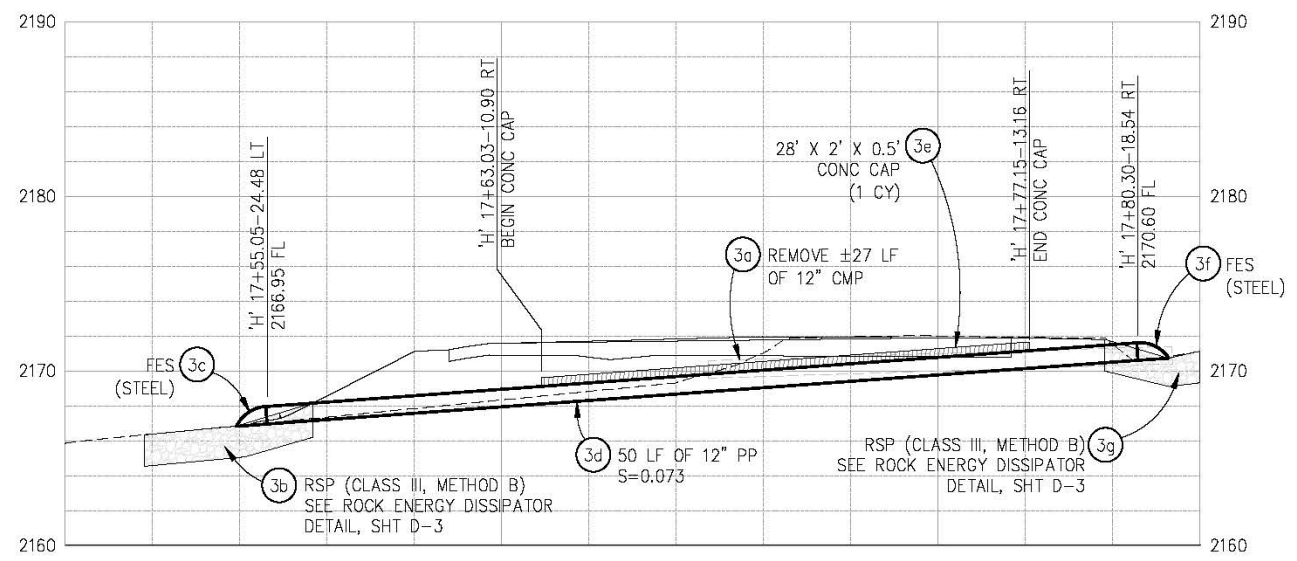
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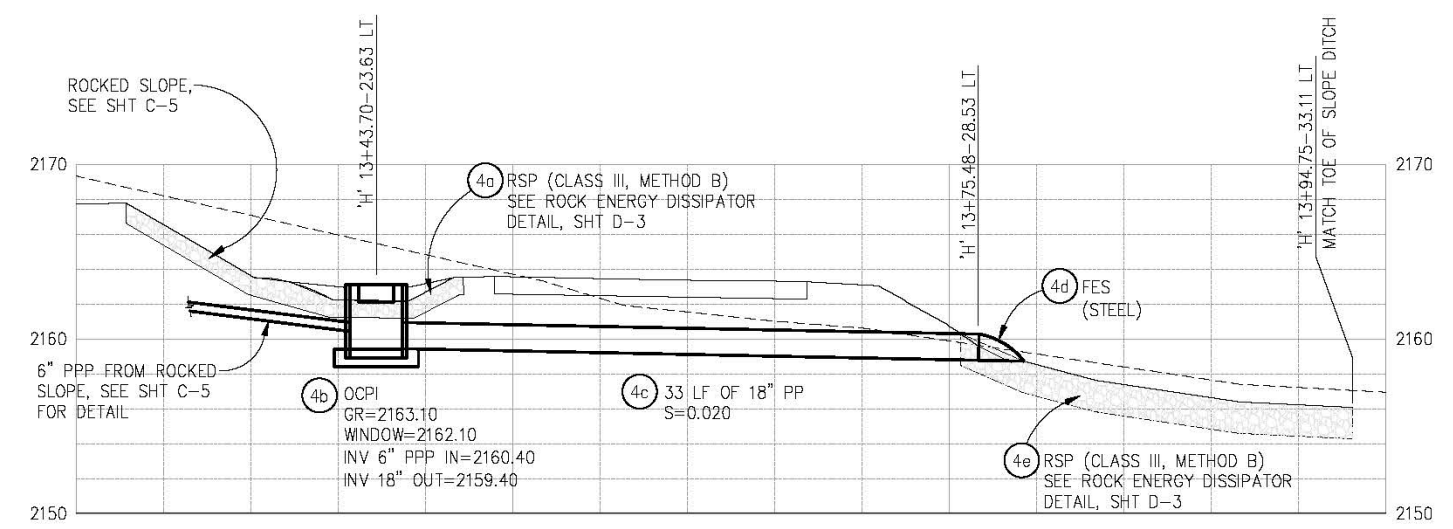
SD SYSTEM 3 - PLAN
SCALE: 1"=5'



SD SYSTEM 4 - PLAN
SCALE: 1"=5'



SD SYSTEM 3 - PROFILE
SCALE: 1"=5' H,V



SD SYSTEM 4 - PROFILE
SCALE: 1"=5' H,V

THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY
 DRAINAGE SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Zachary S. Oates
 REGISTERED CIVIL ENGINEER
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 02/05/20
 ROAD NUMBER: 032



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW
 HOLLOW CREEK

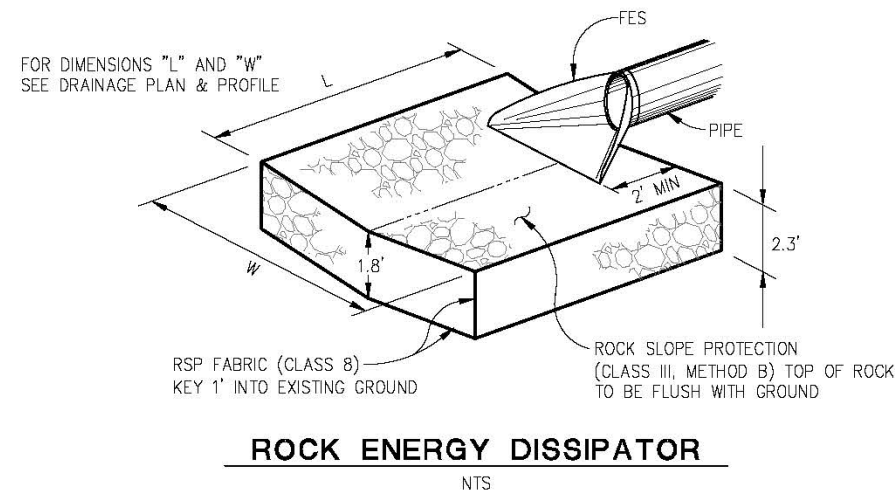
SHEET
D-2
 15 OF 44
 W.D. No. **77135**

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DRAINAGE PLAN SHEET NO.	DRAINAGE SYSTEM NO.	DRAINAGE UNIT	DI (TYPE GO)	OCPI (CONCRETE INLET)	H INLET DEPTH [N]	12" PLASTIC PIPE	18" PLASTIC PIPE	12" FLARED END SECTION (FES) (STEEL)	18" FLARED END SECTION (FES) (STEEL)	CONCRETE CAP	RSP	RSP FABRIC	REMOVE 12" CMP	DESCRIPTION	STATION	DRAINAGE UNIT	DRAINAGE SYSTEM NO.	DRAINAGE PLAN SHEET NO.	
D-1	1	a	EA		5.0	FT	FT								'H' 13+29.30-17.00 RT	a	1	D-1	
		b														b			
		c							1							'H' 13+29.30-37.67 RT			c
		d									4	13		PER ROCK ENERGY DISSIPATOR DETAIL		d			
D-1	2	a									4	16		PER ROCK ENERGY DISSIPATOR DETAIL		a	2	D-1	
		b							1						'H' 15+22.00-34.07 LT	b			
		c												S=0.012		c			
		d	1		6.5										'H' 15+22.00-17.00 RT	d			
		e												S=0.012		e			
		f								1					'H' 15+22.00-29.65 RT	f			
		g									3	14		PER ROCK ENERGY DISSIPATOR DETAIL		g			
D-2	3	a											27			a	3	D-2	
		b									4	13				b			
		c							1						'H' 17+55.05-24.48 LT	c			
		d												S=0.073		d			
		e							1		1				'H' 17+80.30-18.54 RT	e			
		f										3	11			f			
		g														g			
D-2	4	a		1	3.7										'H' 13+43.70-23.63 LT	a	4	D-2	
		b									6	15				b			
		c												S=0.020		c			
		d								1					'H' 13+75.48-28.53 LT	d			
		e									8	29				e			
TOTAL			2	1		50	114	2	4	1	32	111	27						

NOTES:

- [N] NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

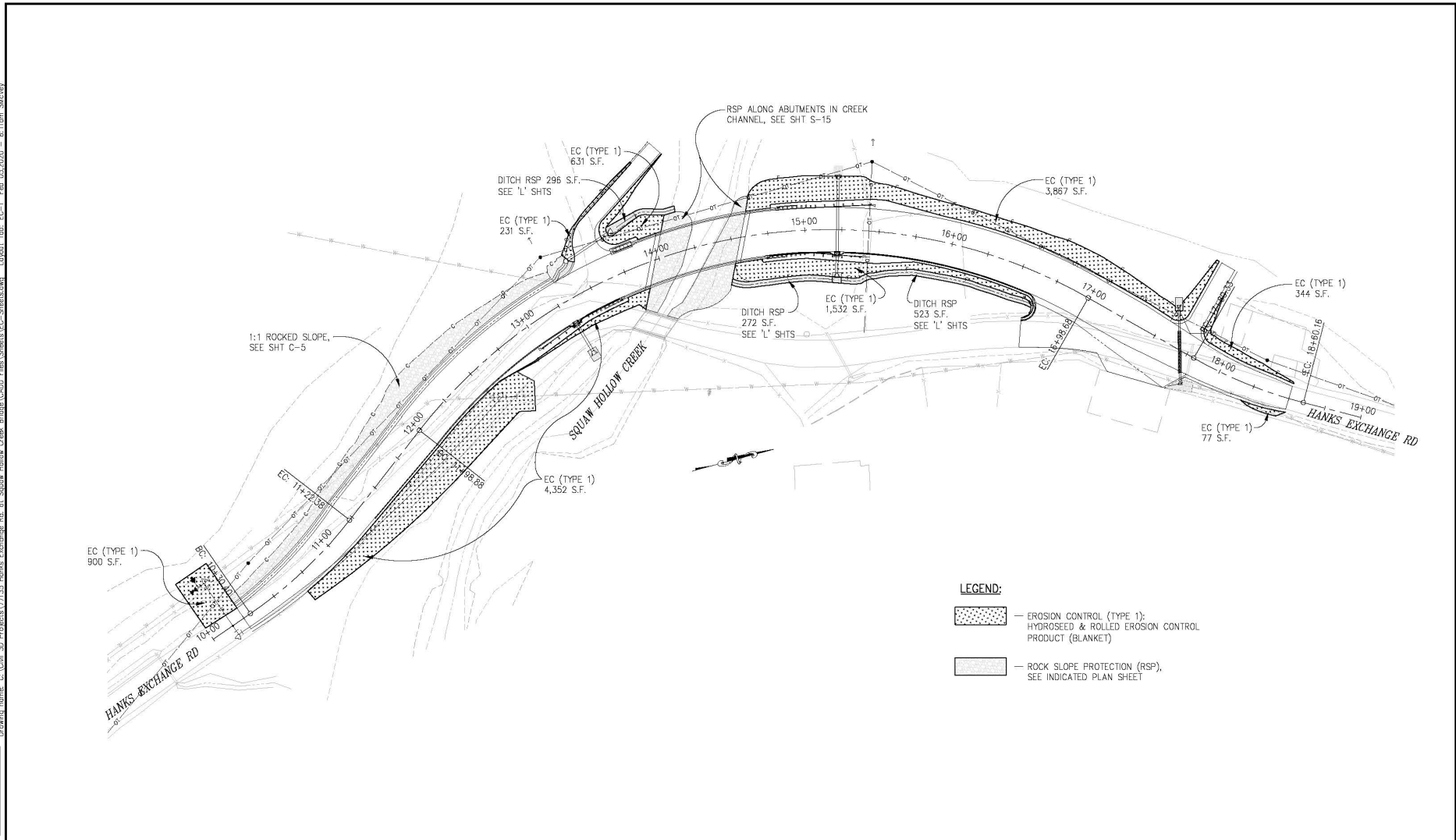


THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY

**DRAINAGE QUANTITIES
SCALE : AS SHOWN**

REVISION NUMBER DATE DESCRIPTION BY		PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER DATE: 02/07/20	DESIGNED: ZO DRAWN: SGM CHECKED: CC DATE: 12/09/19 ROAD NUMBER: 032		COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK	SHEET D-3 16 OF 44 R.O. No. 77135
		COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION			HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK		SHEET D-3 16 OF 44 R.O. No. 77135

ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 PROJECT: 20-0168 B-17 OF 44
 DRAWING: 77185
 SHEET: EC-1
 DATE: 02/07/20
 COUNTY: EL DORADO



LEGEND:

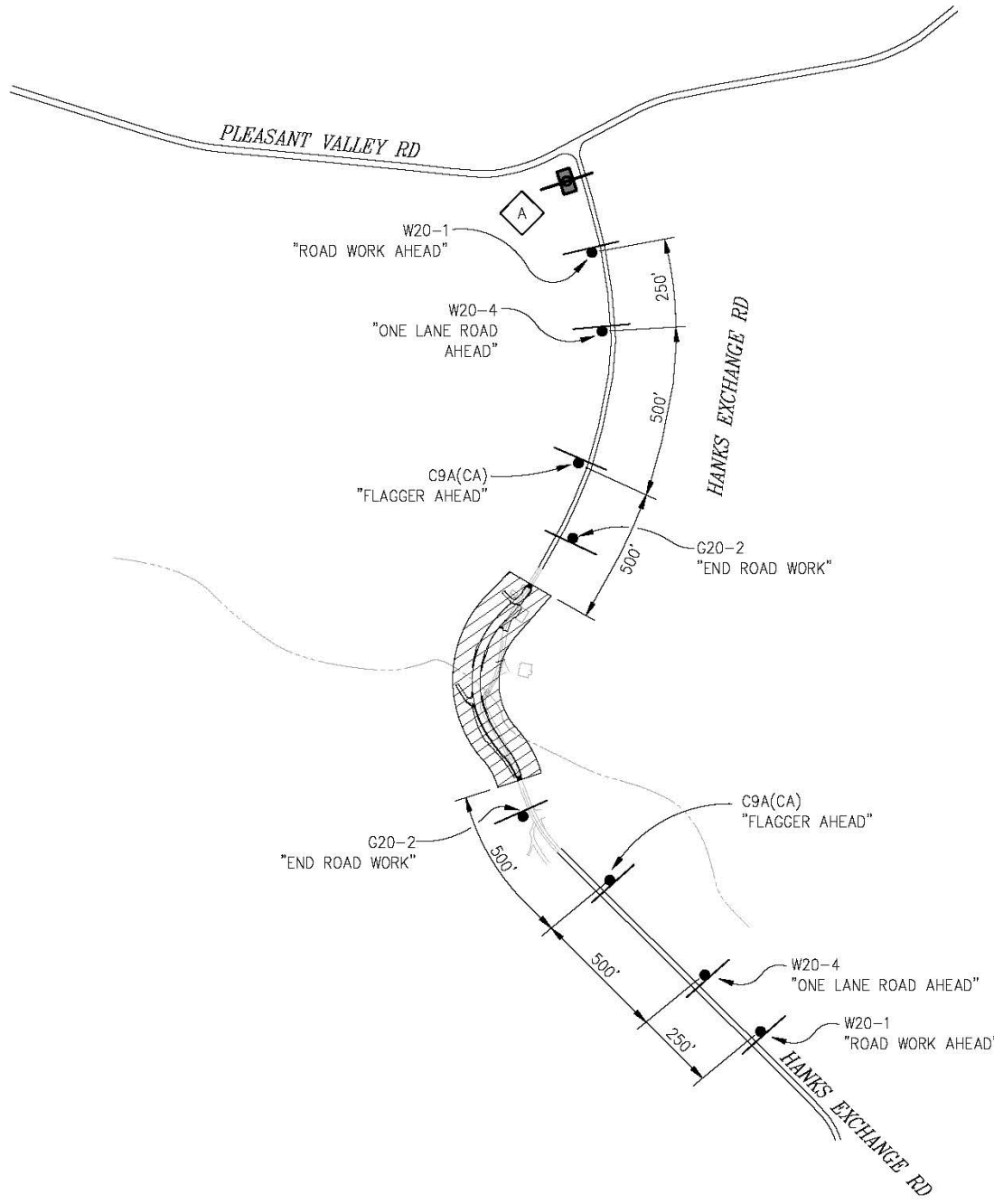
- EROSION CONTROL (TYPE 1): HYDROSEED & ROLLED EROSION CONTROL PRODUCT (BLANKET)
- ROCK SLOPE PROTECTION (RSP), SEE INDICATED PLAN SHEET

THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY

EROSION CONTROL
SCALE : 1" = 30'

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REVISION	NUMBER	DATE	DESCRIPTION	BY																		
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CHECKED: CG	DATE: 12/09/19																					
ROAD NUMBER: 032																						

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


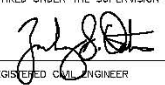

GENERAL STAGE CONSTRUCTION NOTES:

1. REFER TO THE SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC REQUIREMENTS WITHIN THE WORK AREA.
2. REMOVE ALL EXISTING STRIPING, MARKINGS, AND SIGNAGE THAT CONFLICT WITH THE TEMPORARY STRIPING, MARKINGS AND SIGNAGE TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING TEMPORARY STRIPING.
3. ALL TEMPORARY STRIPING AND MARKINGS ARE TO BE PAINT UNLESS NOTED OTHERWISE.
4. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
5. 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.

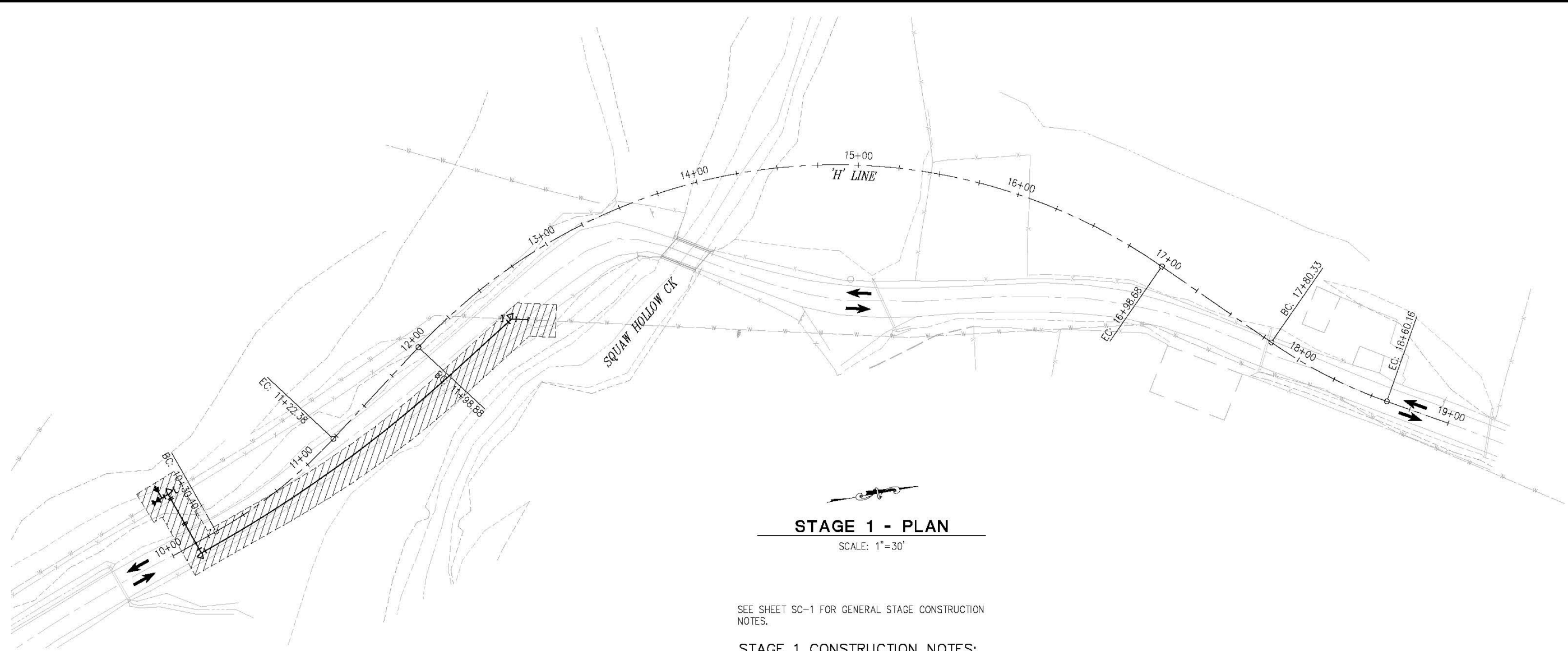
LEGEND:

- CONSTRUCTION AREA
- CONSTRUCTION SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

STAGE CONSTRUCTION
SCALE: 1"=300'

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REVISION	NUMBER	DATE	DESCRIPTION										

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 FOR REDUCED PLANS
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STAGE 1 - PLAN

SCALE: 1"=30'

SEE SHEET SC-1 FOR GENERAL STAGE CONSTRUCTION NOTES.

STAGE 1 CONSTRUCTION NOTES:

1. CONSTRUCT WATERLINE RELOCATION PER SHTS "W-1" AND "W-2".
2. EXCAVATION SHOWN WITHIN THE STAGE 1 WORK AREA WILL BE PERMITTED UNDER REVERSING CONTROL (FLAGGING) PROVIDED THAT TRAFFIC IS RETURNED TO TWO-WAY CONFIGURATION UPON THE COMPLETION OF EACH SHIFT.

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
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 License Expires 02-31-22
 CIVIL
 STATE OF CALIFORNIA
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 12/09/19
 ROAD NUMBER: 032

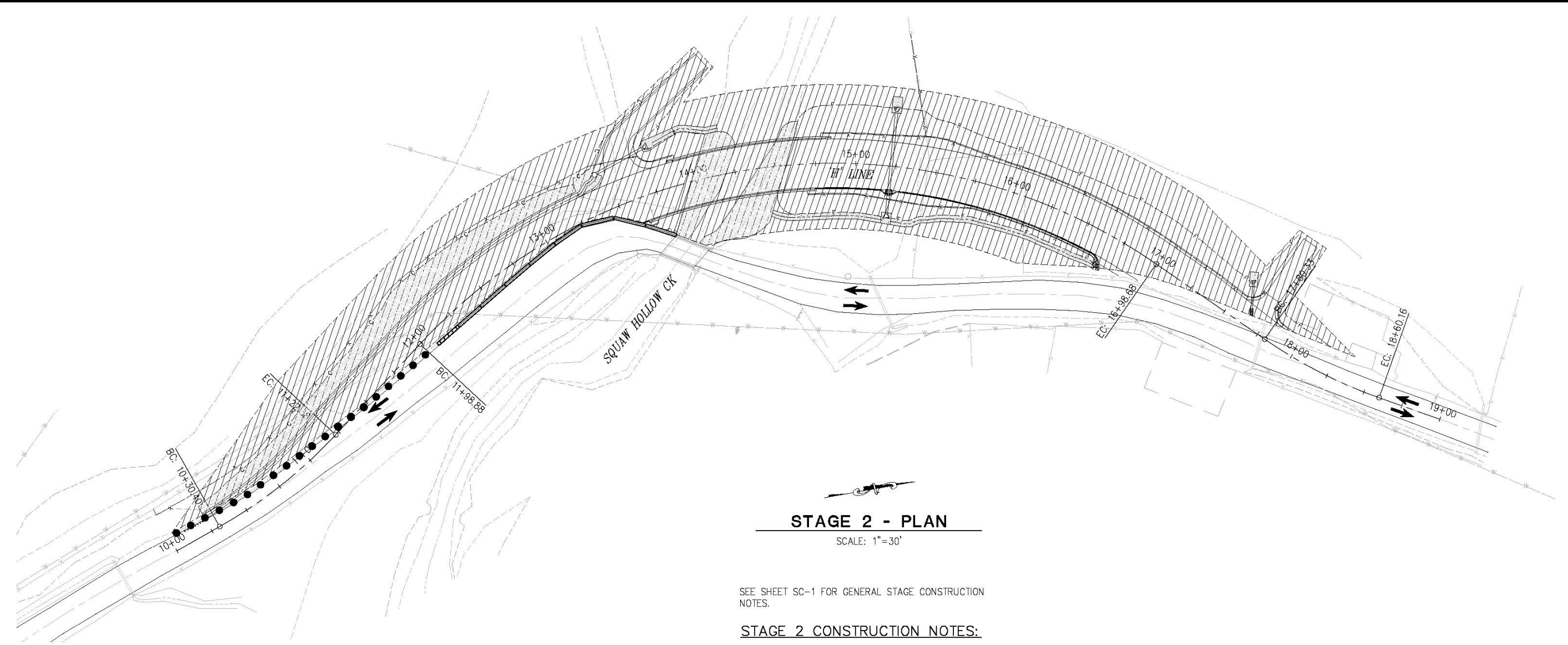


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK

SHEET
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W.D. No. **77135**

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SCALE: 1"=30'

SEE SHEET SC-1 FOR GENERAL STAGE CONSTRUCTION NOTES.

STAGE 2 CONSTRUCTION NOTES:

1. PLACE K-RAIL AND CHANNELIZERS AS SHOWN.
2. EXCAVATE FOR AND CONSTRUCT ABUTMENTS 1 AND 2.
3. CONSTRUCT BRIDGE OVER SQUAW HOLLOW CREEK.
4. CONSTRUCT NORTH AND SOUTH ROADWAY AND BRIDGE APPROACHES WITHIN APPROXIMATE STAGE 2 LIMITS DELINEATED.
5. EXCAVATION SHOWN WITHIN THE STAGE 2 WORK AREA WILL BE PERMITTED UNDER REVERSING CONTROL (FLAGGING) PROVIDED THAT TRAFFIC IS RETURNED TO THE STAGE 1, TWO-WAY, CONFIGURATION UPON THE COMPLETION OF EACH SHIFT.

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
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
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 ROAD NUMBER: 032

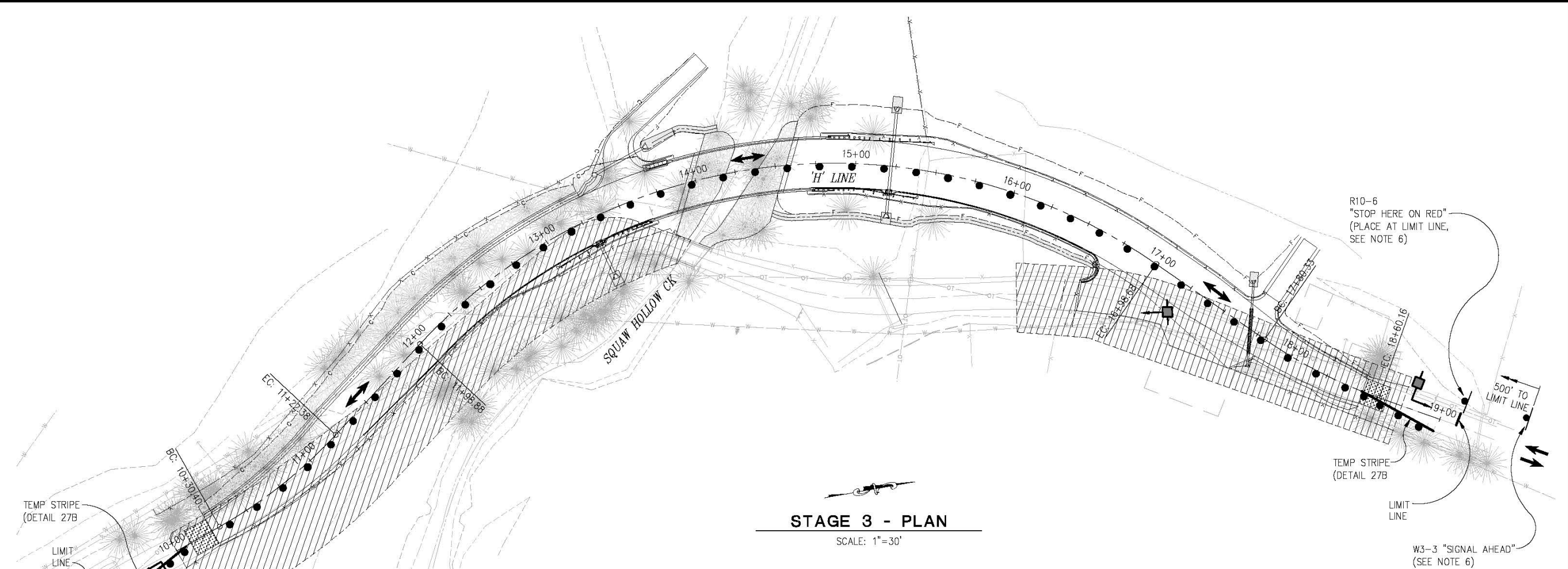


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK

SHEET
SC-3
20 OF 44
W.D. No. **77135**









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STAGE 3 - 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

SEE SHEET SC-1 FOR GENERAL STAGE CONSTRUCTION NOTES.

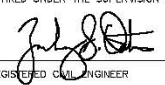
STAGE 3 CONSTRUCTION NOTES:

1. CONSTRUCT NORTH AND SOUTH ROADWAY APPROACHES.
2. CONSTRUCT REMAINING PORTIONS OF IMPROVEMENTS.
3. CONSTRUCTION WITHIN THE STAGE 3 WORK AREA WILL BE PERMITTED UNDER CONTROL OF A PORTABLE TEMPORARY SIGNAL SYSTEM AND ONE-WAY REVERSING CONTROLS.
4. INSTALL AND ACTIVATE TEMPORARY PORTABLE SIGNAL SYSTEM FOR CONTINUOUS 24-HOUR REVERSING CONTROL.
5. MAINTAIN ACCESS TO DWYS AT ALL TIMES.
6. SIGNS REQUIRED FOR THE PORTABLE TEMPORARY SIGNAL MUST BE COVERED WHEN THE SIGNAL IS NOT OPERATING.

STAGE CONSTRUCTION
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 12/09/19
 ROAD NUMBER: 032

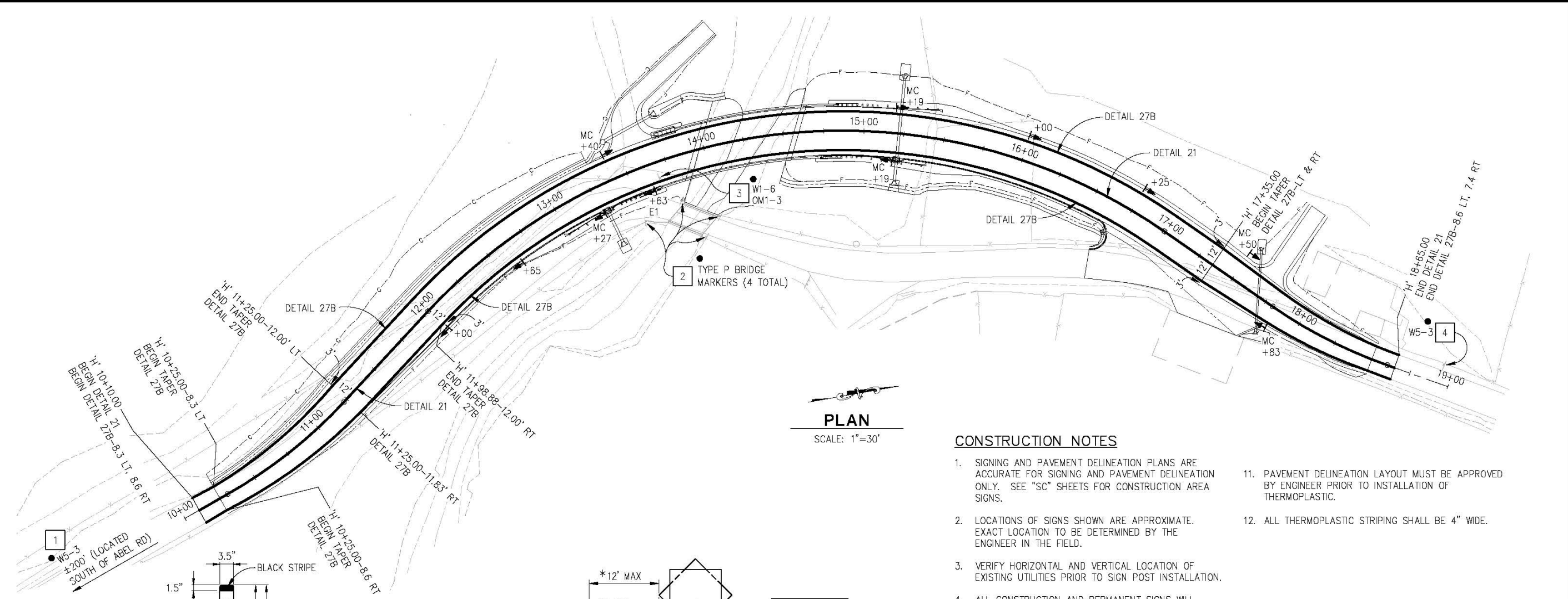


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK

SHEET
SC-4
21 OF 44
W.D. No. **77135**

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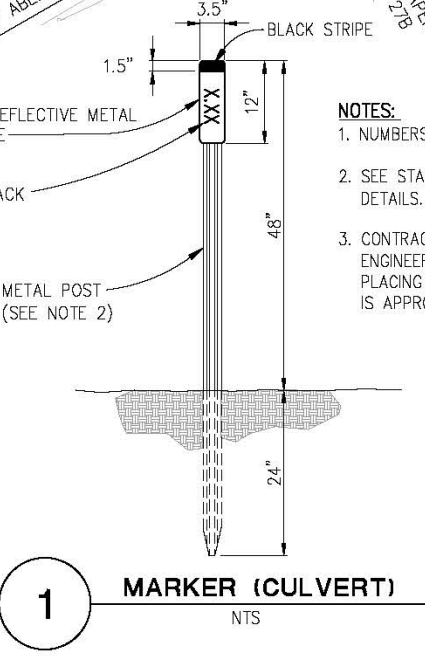
PLAN
SCALE: 1"=30'

CONSTRUCTION NOTES

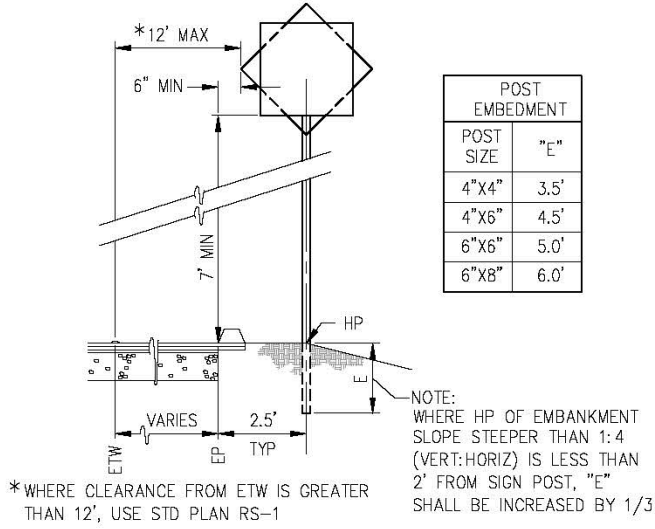
- SIGNING AND PAVEMENT DELINEATION PLANS ARE ACCURATE FOR SIGNING AND PAVEMENT DELINEATION ONLY. SEE "SC" SHEETS FOR CONSTRUCTION AREA SIGNS.
- LOCATIONS OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
- VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING 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.
- PAVEMENT DELINEATION LAYOUT MUST BE APPROVED BY ENGINEER PRIOR TO INSTALLATION OF THERMOPLASTIC.
- ALL THERMOPLASTIC STRIPING SHALL BE 4" WIDE.

SIGNING LEGEND

- X — SIGN NUMBER
- INSTALL SIGN
- REMOVE AND SALVAGE ROADSIDE SIGN
- RELOCATE ROADSIDE SIGN
- PROPOSED MARKER/DELINEATOR
 MC = MARKER CULVERT (SEE DETAIL 1)
 E1 = DELINEATOR FASTENED TO MGS POSTS PER A77N4 (TOTAL 1)
 E2 = CLASS 2 DELINEATOR, TYPE E PER A73C



1 MARKER (CULVERT)
NTS



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

- NOTES:**
- NUMBERS AS DESIGNATED BY THE ENGINEER.
 - SEE STANDARD PLAN A73B FOR METAL POST DETAILS.
 - CONTRACTOR SHALL FIELD VERIFY PM WITH ENGINEERS APPROVAL PRIOR TO ORDERING AND PLACING METAL TARGET PLATES. POST MILE IS APPROXIMATE ON THESE PLANS.



PREPARED UNDER THE SUPERVISION OF:
Zachary S. Oates
 REGISTERED CIVIL ENGINEER
 LICENSE EXPIRES 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 12/09/19
 ROAD NUMBER: 032



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK

REVISION	NUMBER	DATE	DESCRIPTION	BY

SIGNING AND PAVEMENT DELINEATION
SCALE : AS SHOWN

SHEET
SPD-1
 22 OF 44
 W.D. No. **77135**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
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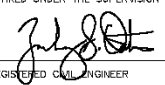

SIGN QUANTITIES									
SIGN NO.	SIGN	CALIFORNIA MUTCD CODE	PANEL SIZE (INCHES)	WOOD POST SIZE & LENGTH	ROADSIDE SIGNS			EXISTING LOCATION	PROPOSED LOCATION (APPROXIMATELY)
					ONE POST EA	RELOCATE EA	SALVAGE EA		
1	"ONE LANE BRIDGE"	W5-3		4" x 4"			1	±200' SOUTH OF ABEL RD	
2	OBJECT MARKER	TYPE 'P' (CA)					4	EXISTING BRIDGE	
3	DIRECTION ARROW & OBJECT MARKER	W1-6 W/OM1-3					1	'H' 13+68 RT	
4	"ONE LANE BRIDGE"	W5-3					1	'H' 18+93 LT	
TOTAL							7		

MARKER (CULVERT)					
NUMERAL ON TARGET ON PLATE	FACING TRAFFIC		FACING TRAFFIC		LOCATION
	EA		EA		
	E	W	S	N	
0.48			1		'H' 13+27 RT
0.48				1	'H' 13+40 LT
0.44				1	'H' 15+19 LT
0.44			1		'H' 15+19 RT
0.40				1	'H' 17+50 LT
0.40			1		'H' 17+83 RT
SUBTOTAL			3	3	
TOTAL			6		

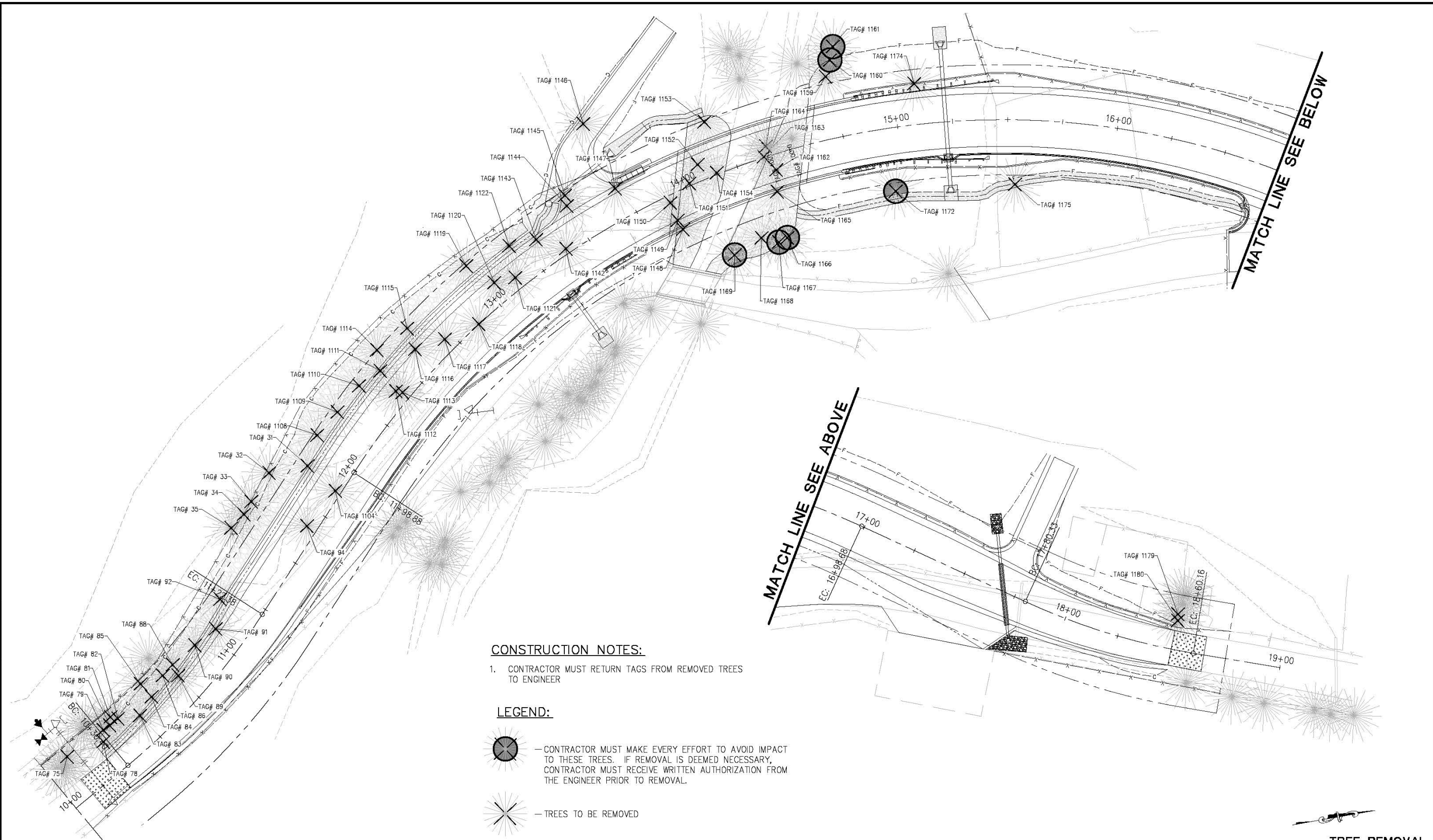
THERMOPLASTIC TRAFFIC STRIPE-SPRAYABLE (ENHANCED WET NIGHT VISIBILITY)				
DETAIL NO./STANDARD PLAN	FROM	TO	WHITE FT	YELLOW FT
DETAIL 21/A20A	'H' 10+10	'H' 18+65		855
DETAIL 27B/A20B	'H' 10+10 LT	'H' 18+65 LT	867	
	'H' 10+10 RT	'H' 18+65 RT	830	
SUBTOTAL			1,697	855
TOTAL			2,552	

DELINEATORS		
LOCATION	TYPE E CLASS 1	TYPE E CLASS 2
'H' 12+00 RT		1
'H' 12+65 RT		1
'H' 13+63 RT	1	
'H' 16+00 LT		1
'H' 16+25 LT		1
TOTAL		4

SIGNING AND PAVEMENT DELINEATION
SCALE : AS SHOWN

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISION</th> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISION	NUMBER	DATE	DESCRIPTION	BY																 <p>PREPARED UNDER THE SUPERVISION OF:  REGISTERED CIVIL ENGINEER DATE: 02/07/20</p>	DESIGNED: ZO DRAWN: SGM CHECKED: CC DATE: 12/09/19 ROAD NUMBER: 032	 <p>COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION</p>	HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK	SHEET SPD-2 23 OF 44 W.D. No. 77135
REVISION	NUMBER	DATE	DESCRIPTION	BY																					

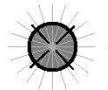
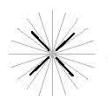
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 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



CONSTRUCTION NOTES:

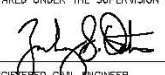
1. CONTRACTOR MUST RETURN TAGS FROM REMOVED TREES TO ENGINEER

LEGEND:

-  - CONTRACTOR MUST MAKE EVERY EFFORT TO AVOID IMPACT TO THESE TREES. IF REMOVAL IS DEEMED NECESSARY, CONTRACTOR MUST RECEIVE WRITTEN AUTHORIZATION FROM THE ENGINEER PRIOR TO REMOVAL.
-  - TREES TO BE REMOVED

**TREE REMOVAL
SCALE : 1" = 20'**



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 LICENSE EXPIRES 02-31-22
 CIVIL
 STATE OF CALIFORNIA

DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CC
 DATE: 01/09/20
 ROAD NUMBER: 032



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**HANKS EXCHANGE RD AT SQUAW
HOLLOW CREEK**

SHEET
TR-1
 24 OF 44
 W.D. No. **77135**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 0 1 2


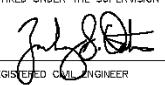

TREE REMOVAL TABLE			
TAG NUMBER	'OAK' LINE STATION	OFFSET	DESCRIPTION & DIA.
31	11+90.01	19.38' LT	0.89Ø PINE
32	11+77.89	32.27' LT	0.83Ø CEDAR
33	11+62.60	31.98' LT	1.08Ø CEDAR
34	11+55.92	31.62' LT	1.31Ø CEDAR
35	11+47.61	33.08' LT	1.11Ø CEDAR
75	10+11.74	20.61' LT	0.67Ø CEDAR
78	10+28.67	15.30' LT	1.02Ø CEDAR
79	10+32.15	19.48' LT	0.80Ø CEDAR
80	10+35.92	19.25' LT	0.83Ø CEDAR
81	10+38.87	21.86' LT	0.95Ø CEDAR
82	10+41.11	19.10' LT	0.89Ø CEDAR
83	10+49.92	13.30' LT	1.02Ø CEDAR
84	10+60.11	15.77' LT	0.80Ø OAK (FORKED)
85	10+60.76	23.41' LT	1.15Ø CEDAR
86	10+71.15	18.75' LT	1.24Ø CEDAR
88	10+78.25	18.70' LT	1.18Ø CEDAR
89	10+76.16	13.53' LT	0.89Ø OAK
90	10+92.35	16.64' LT	0.73Ø OAK
91	11+04.61	13.68' LT	0.86Ø OAK
92	11+17.45	19.75' LT	1.72Ø CEDAR
94	11+67.01	4.79' LT	0.38Ø OAK (CLUSTER)
1104 *	11+87.39	2.63' LT	2.67Ø PINE
1108 *	12+03.80	23.24' LT	2.04Ø CEDAR
1109	12+16.74	21.66' LT	0.95Ø CEDAR
1110 *	12+31.30	21.03' LT	2.04Ø CEDAR
1111 *	12+42.01	17.82' LT	2.36Ø CEDAR
1112	12+39.54	6.55' LT	1.37Ø, 0.89Ø CEDAR (FORKED)
1113 *	12+40.98	3.80' LT	2.26Ø CEDAR
1114 *	12+47.82	25.11' LT	2.99Ø CEDAR
1115 *	12+63.32	21.55' LT	3.28Ø CEDAR
1116 *	12+59.07	12.43' LT	1.69Ø PINE
1117	12+71.31	5.85' LT	0.57Ø, 1.50 CEDAR (FORKED)
1118 *	12+87.03	0.12' LT	2.01Ø PINE
1119	12+99.85	23.61' LT	0.99Ø OAK
1120	13+04.45	9.63' LT	0.76Ø CEDAR
1121	13+13.09	5.33' LT	0.51Ø CEDAR
1122	13+19.49	18.46' LT	1.15Ø OAK

TREE REMOVAL TABLE			
TAG NUMBER	'OAK' LINE STATION	OFFSET	DESCRIPTION & DIA.
1142	13+39.06	2.37' LT	1.31Ø OAK
1143	13+30.56	13.46' LT	1.37Ø CEDAR
1144	13+49.72	18.36' LT	0.57Ø OAK
1145	13+51.43	22.80' LT	0.76Ø CEDAR
1146	13+72.85	46.65' LT	0.48Ø OAK
1147 *	13+71.60	13.97' LT	2.26Ø CEDAR
1148	13+90.44	16.55' RT	1.46Ø OAK
1149 *	13+90.06	11.85' RT	2.32Ø PINE
1150 *	13+90.56	3.28' RT	2.13Ø CEDAR
1151 *	14+02.10	1.13' LT	1.88Ø OAK
1152 *	14+08.82	7.47' LT	1.97Ø OAK
1153 *	14+18.48	24.26' LT	2.26Ø OAK
1154	14+15.31	0.72' LT	1.21Ø ALDER
1159	14+72.91	28.12' LT	1.59Ø OAK
1160 **	14+76.10	35.05' LT	2.58Ø PINE
1161 **	14+78.34	40.79' LT	2.61Ø OAK
1162 *	14+41.50	7.02' RT	2.13Ø OAK
1163	14+37.86	0.33' LT	0.48Ø, 0.41Ø ALDER (FORKED)
1164	14+40.11	4.55' LT	0.51Ø ALDER
1165	14+38.82	16.52' RT	1.11Ø CEDAR
1166 **	14+36.51	37.83' RT	3.28Ø PINE
1167 **	14+31.72	38.56' RT	2.71Ø OAK
1168 *	14+24.14	34.05' RT	2.42Ø, 0.92Ø PINE (FORKED)
1169 **	14+08.33	36.81' RT	0.73Ø ALDER
1172 **	14+94.78	28.75' RT	2.29Ø OAK
1174 *	15+09.57	18.48' LT	2.83Ø OAK
1175	15+53.89	29.26' RT	0.76Ø, 1.02Ø, 0.95Ø FRUIT (CLUSTER)
1179	18+49.86	16.09' LT	1.27Ø OAK
1180	18+50.46	13.25' LT	0.83Ø OAK

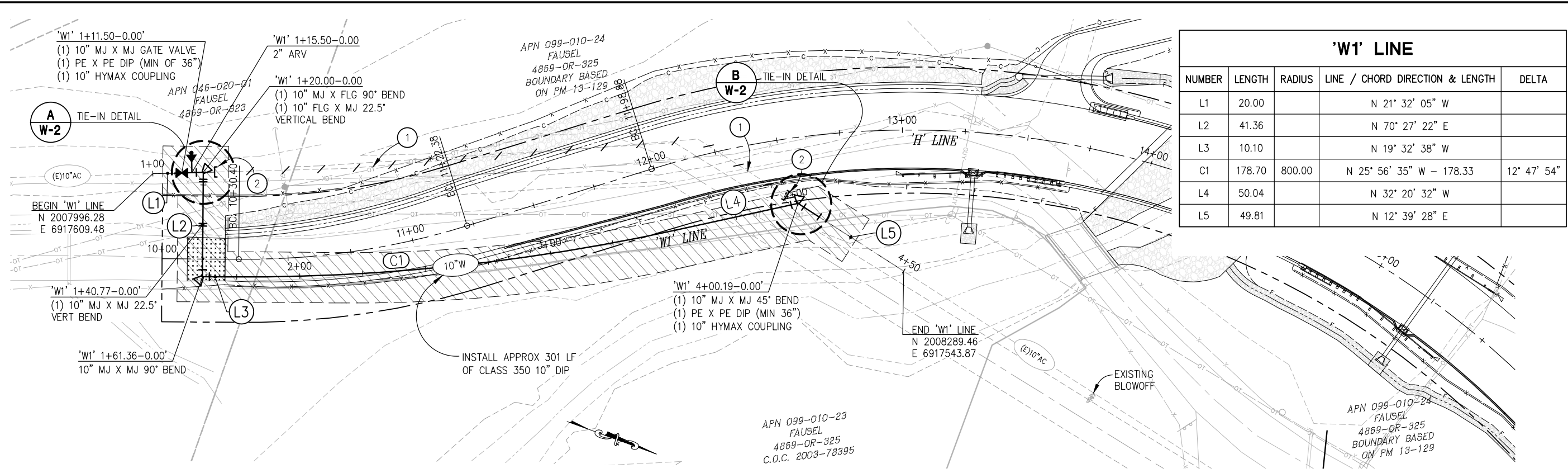
* TREES TO BE CUT INTO 16' LENGTHS AND STORED IN DESIGNATED AREA APPROVED BY PROPERTY OWNER

** CONTRACTOR MUST MAKE EVERY EFFORT TO AVOID IMPACT TO THESE TREES. IF REMOVAL IS DEEMED NECESSARY, CONTRACTOR MUST RECEIVE WRITTEN AUTHORIZATION FROM THE ENGINEER PRIOR TO REMOVAL.

TREE REMOVAL
SCALE : NONE

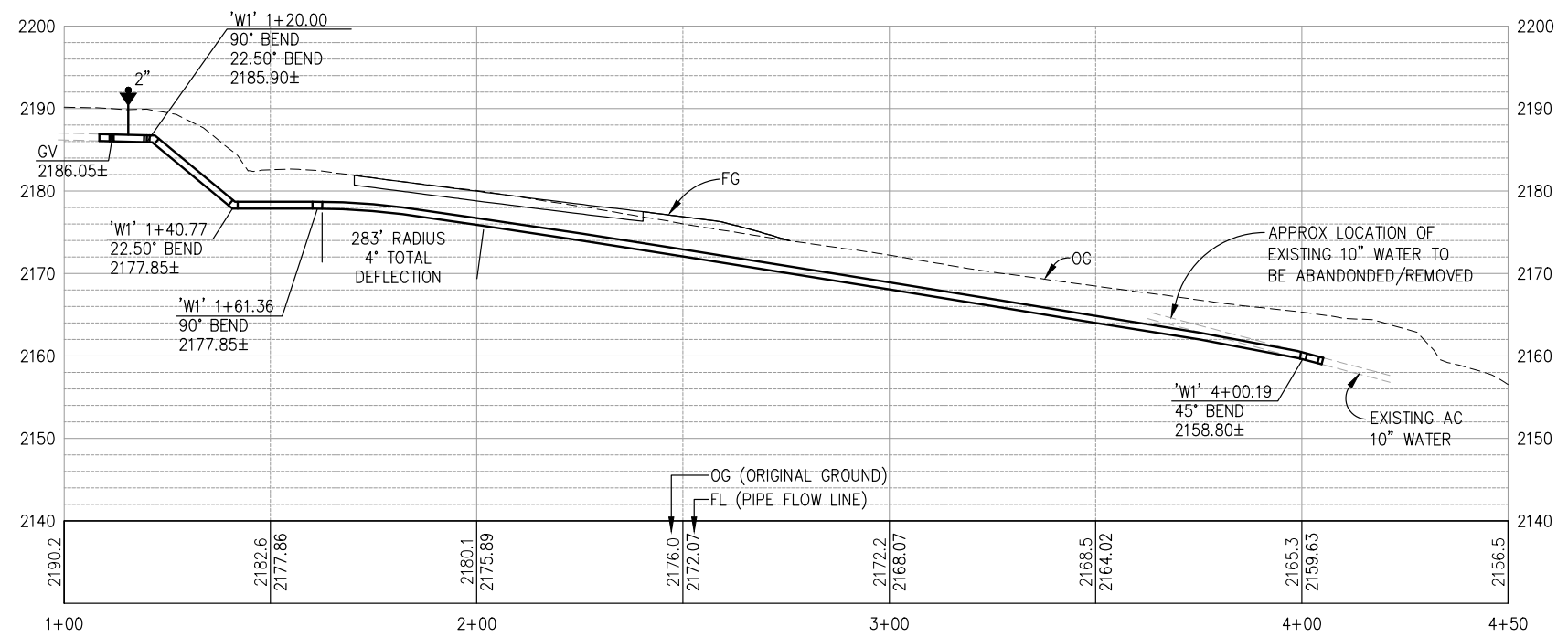
REVISION NUMBER DATE DESCRIPTION BY		PREPARED UNDER THE SUPERVISION OF :  REGISTERED CIVIL ENGINEER DATE: 02/07/20	DESIGNED: ZO DRAWN: SGM CHECKED: CC DATE: 01/09/20 ROAD NUMBER: 032		COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK	SHEET TR-2 25 OF 44 W.D. No. 77135
		FOR REDUCED PLANS					

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil_3D\Projects\7135-Hanks Exchange Rd. at Squaw Hollow Creek Bridge\CADD Files\Sheets\W-Sheets.dwg Layout: Tab: W-1 Feb 05, 2020 - 10:06am SMC\ey
 FOR REDUCED PLANS



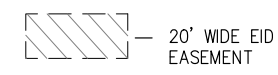
'W1' LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	20.00		N 21° 32' 05" W	
L2	41.36		N 70° 27' 22" E	
L3	10.10		N 19° 32' 38" W	
C1	178.70	800.00	N 25° 56' 35" W - 178.33	12° 47' 54"
L4	50.04		N 32° 20' 32" W	
L5	49.81		N 12° 39' 28" E	

'W1' LINE PLAN
SCALE: 1"=20'



'W1' LINE PROFILE
SCALE: 1"=20' H, 1"=10' V

LEGEND



GENERAL NOTES:

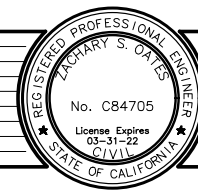
- CONTRACTOR IS MADE AWARE THAT THIS IS A BRANCH DISTRIBUTION SYSTEM AND ALL TIE-INS MUST BE COMPLETED AT THE SAME TIME AFTER LINE HAS BEEN COMPLETED AND PASSED. CONTRACTOR CAN SUBMIT AN ALTERNATIVE TIE-IN PLAN FOR REVIEW AND APPROVAL.
- THE LOCATION AND ANGLES OF THE EXISTING UTILITIES ARE UNKNOWN. CONTRACTOR SHALL POHOLE AS NECESSARY TO LOCATE IN ORDER TO VERIFY CONNECTION CONFIGURATION AND ABANDON THE PIPES.
- ALL PORTIONS OF AC PIPE THAT REQUIRE REMOVAL SHALL BE HANDLED AND DISPOSED OF PER EID SPECIFICATION 33 12 00.13
- CONTRACTOR TO VERIFY ALL BENDS AND FITTINGS PRIOR TO PURCHASE AND INSTALLATION.
- ALL MATERIALS TO BE PER EID STD DETAIL W08

CONSTRUCTION NOTES:

- ① — ABANDON EXISTING WATERLINE PER EID STANDARDS AND SPECIFICATIONS
- ② — INSTALL PIPE CAP PER EID STANDARDS AND SPECIFICATIONS

WATERLINE LAYOUT
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 02/07/20

DESIGNED: ZO
 DRAWN: SGM
 CHECKED: CG
 DATE: 12/09/19
 ROAD NUMBER: 032



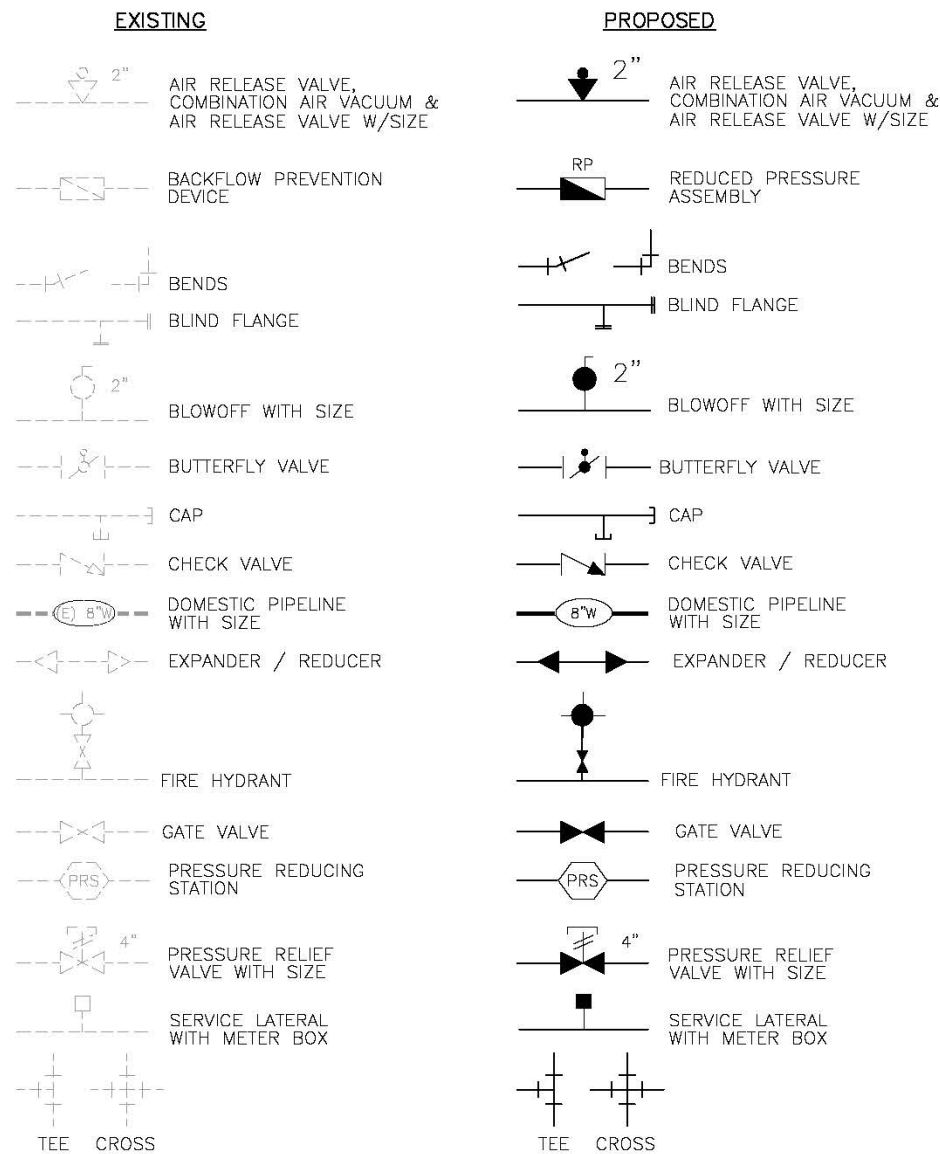
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW
HOLLOW CREEK

SHEET
W-1
26 OF 44
W.O. No. **77135**

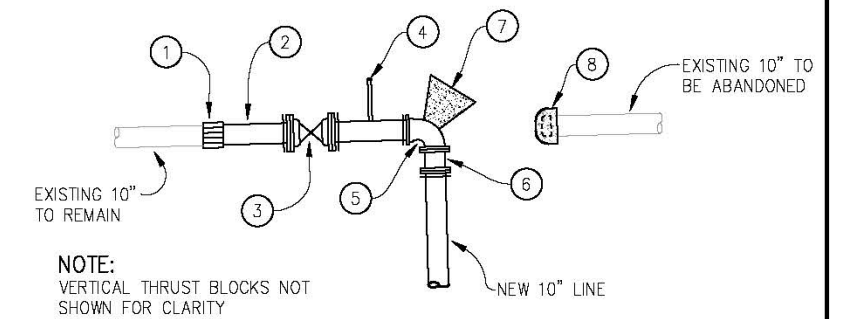
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 FOR REDUCED PLANS
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 1
 0

WATER SYSTEM LEGEND:



WATER NOTES:

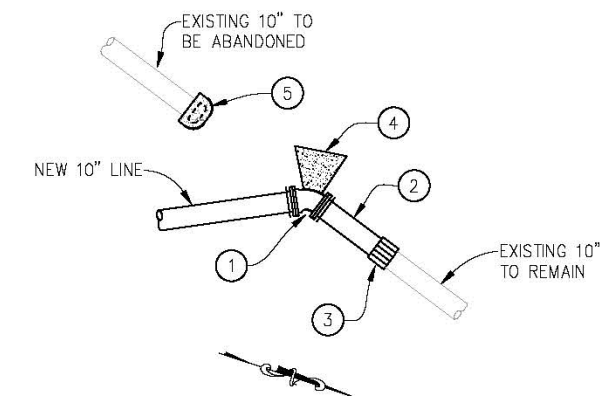
1. WORK SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION AND TO THE SATISFACTION OF THE EL DORADO IRRIGATION DISTRICT (EID). CONSTRUCTION SHALL CONFORM TO THESE PLANS AND E.I.D.'S LATEST VERSION OF THE TECHNICAL SPECIFICATIONS AND STANDARD DRAWINGS.
2. CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION 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. PIPELINES SHALL BE DISINFECTED, FLUSHED, AND HYDROSTATICALLY TESTED IN ACCORDANCE WITH EID'S TECHNICAL SPECIFICATIONS.
10. LIDS SHALL BE MARKED "WATER".
11. CONTRACTOR SHALL HAVE A COPY OF THE EID'S CONSTRUCTION STANDARDS ON THE JOB.
12. REVISIONS TO THE DRAWINGS MUST BE APPROVED IN WRITING BY EID.
13. 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.



A CONNECTION DETAIL
NTS

DETAIL A - CONSTRUCTION NOTES:

- | | |
|-----------------------------------------|-----------------------------------------------------------------------------|
| ① 10" HYMAX COUPLING, OR APPROVED EQUAL | ⑥ 10" FLG X MJ 22.5° VERTICAL BEND |
| ② 10" PE X PE DIP, MINIMUM OF 36" | ⑦ THRUST BLOCK PER EID DETAIL W11 |
| ③ 10" MJ X MJ GATE VALVE | ⑧ CUT, CAP AND ABANDON EXISTING AC 10" PER EID STANDARDS AND SPECIFICATIONS |
| ④ 2" ARV PER EID DETAIL W16 | * ALL MECHANICAL JOINTS SHALL BE RESTRAINED |
| ⑤ 10" MJ X FLG 90° BEND | |



B CONNECTION DETAIL
NTS

DETAIL B - CONSTRUCTION NOTES:

- | | |
|-----------------------------------------|-----------------------------------------------------------------------------|
| ① 10" MJ X MJ 45° BEND | ⑤ CUT, CAP AND ABANDON EXISTING AC 10" PER EID STANDARDS AND SPECIFICATIONS |
| ② 10" PE X PE DIP, MINIMUM OF 36" | * ALL MECHANICAL JOINTS SHALL BE RESTRAINED |
| ③ 10" HYMAX COUPLING, OR APPROVED EQUAL | |
| ④ THRUST BLOCK PER EID DETAIL W11 | |

WATERLINE LAYOUT
SCALE : NONE

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 02/07/20

DESIGNED: ZO DRAWN: SGM
 CHECKED: CC DATE: 12/09/19
 ROAD NUMBER: 032

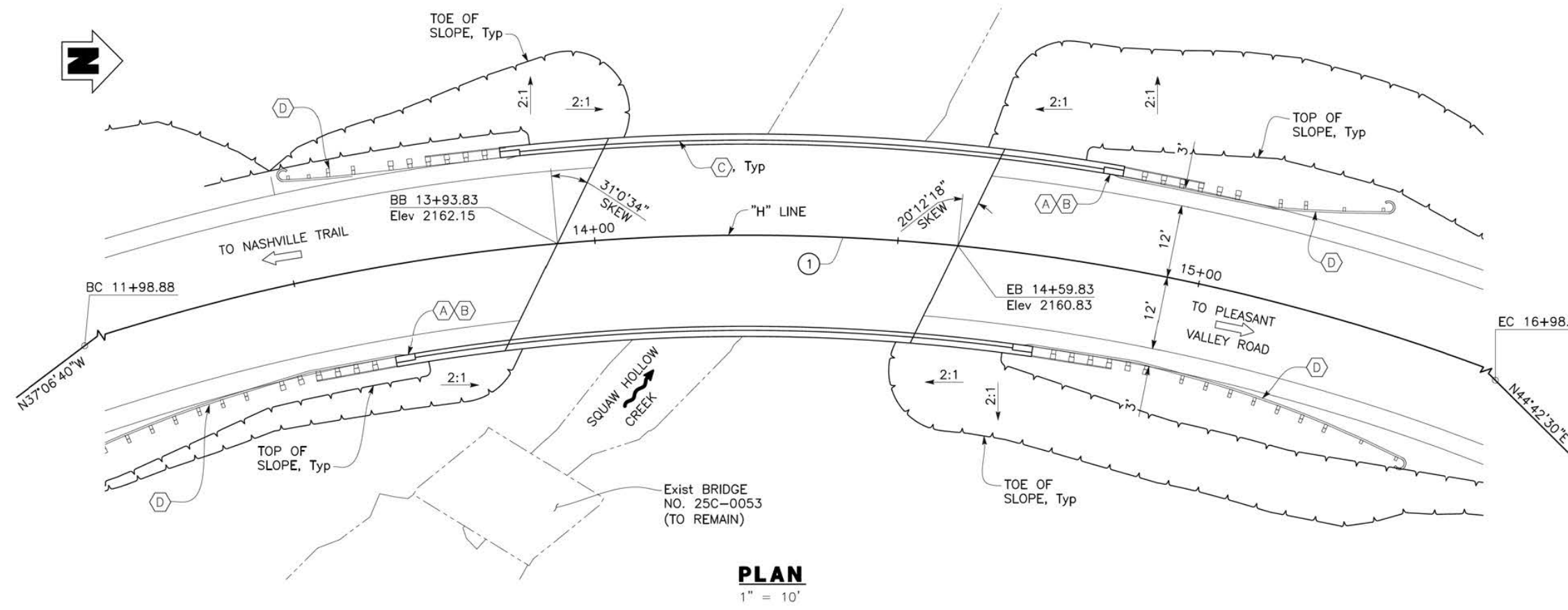
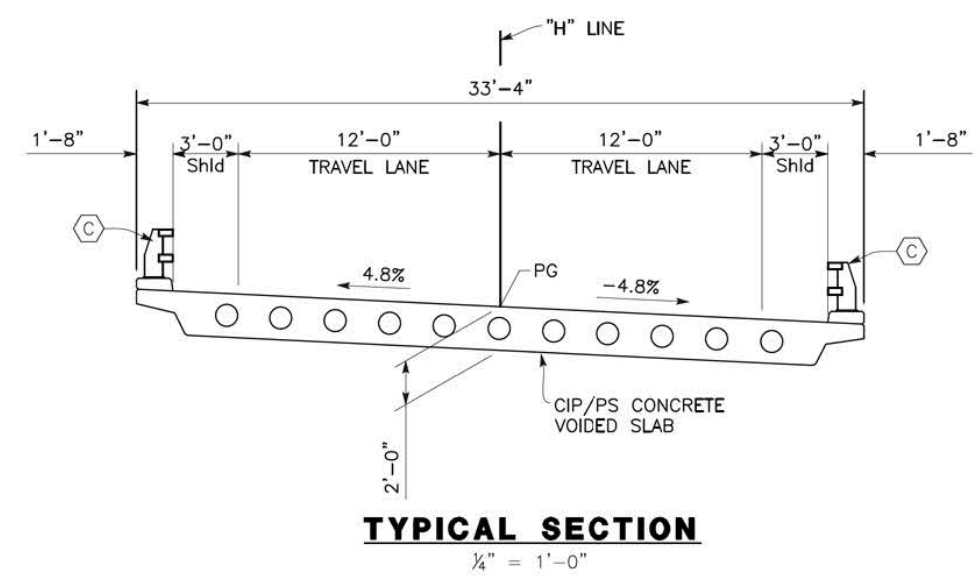
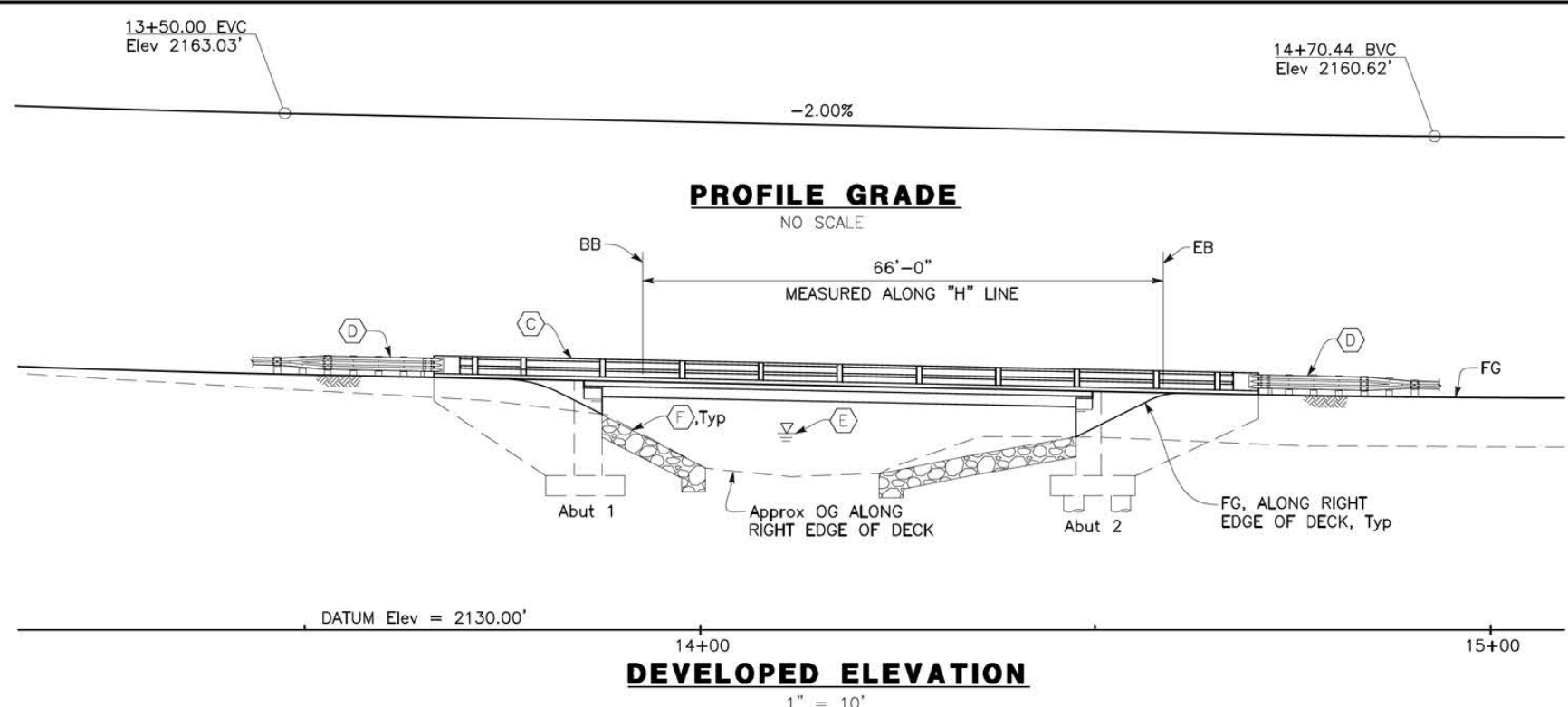


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE RD AT SQUAW HOLLOW CREEK

SHEET
W-2
27 OF 44
R.O. No. **77135**

ORIGINAL SCALE IS IN INCHES
 Layout Tab: GP Dec 16, 2019 - 4:19pm AHyde
 Drawing name: U:\16034 - Hanks Exchange Road Bridge - El Dorado Co\400 Project Design Files\430 Bridges & Structures\Plans\HE-S-GP.dwg
 FOR REDUCED PLANS



- LEGEND:**
- Indicates Direction of Water Flow
 - Indicates Direction of Traffic
 - Indicates Existing Bridge
 - Indicates New Structure
 - 100 Yr Water Surface Elevation
- NOTES:**
- (A) Paint "Hanks Exchange Road Bridge"
 - (B) Paint "Bridge NO. 25C0133"
 - (C) California ST-10 Bridge Rail
 - (D) Midwest Guardrail System
 - (E) For "HYDROLOGIC SUMMARY" see "FOUNDATION PLAN" sheet
 - (F) Rock Slope Protection

CURVE DATA				
No.	R	Δ	T	L
①	350.00'	81°49'10"	303.28'	499.81'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 No. 12/18/19
 DATE:

DESIGNED: AP
 DRAWN: EC
 CHECKED: BH
 DATE: 12/18/19
 ROAD NUMBER: 032



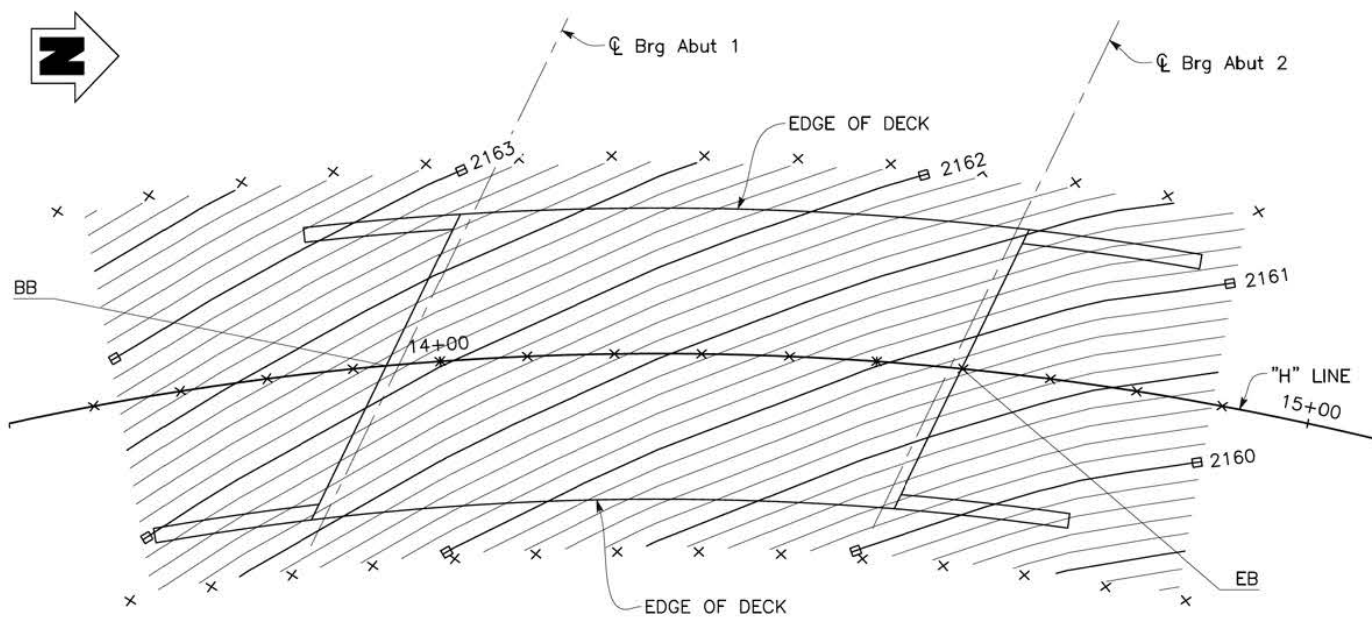
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 GENERAL PLAN

SHEET
 S-1
 28 OF 44
 W.D. No. 77135

POST 95% PLANS - NOT FOR CONSTRUCTION

ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
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 Drawing name: U:\16034 - Hanks Exchange Road Bridge - El Dorado Co\400 Project Design Files\430 Bridges & Structures\Plans\HE-S-DC.dwg

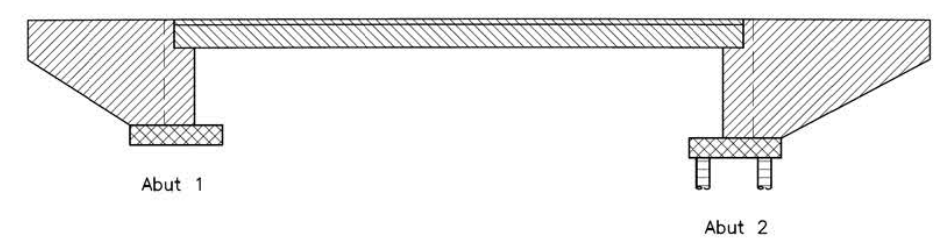


DECK CONTOURS

1" = 10'

NOTES:

- Contours do not include camber or falsework settlement
- Contour interval is 0.10'
- Indicates even foot contours.
- x Indicates 10' increments measured along "H" line.



CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

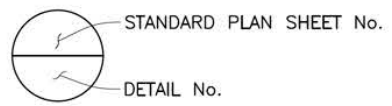
- Structural Concrete, Bridge (Polymer Fiber) (See "SLAB DETAILS NO. 1" sheet)
- Structural Concrete, Bridge (f'c = 4.0 ksi @ 28 Days)
- Structural Concrete, Bridge Footing
- Cast-In-Drilled-Hole Pile (f'c = 4.0 ksi @ 28 Days)

INDEX TO PLANS

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S-3	FOUNDATION PLAN
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S-6	ABUTMENT DETAILS NO. 1
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S-12	SLAB LAYOUT
S-13	SLAB DETAILS NO. 1
S-14	SLAB DETAILS NO. 2
S-15	ROCK SLOPE PROTECTION
S-16	LOG OF TEST BORINGS NO. 1
S-17	LOG OF TEST BORINGS NO. 2

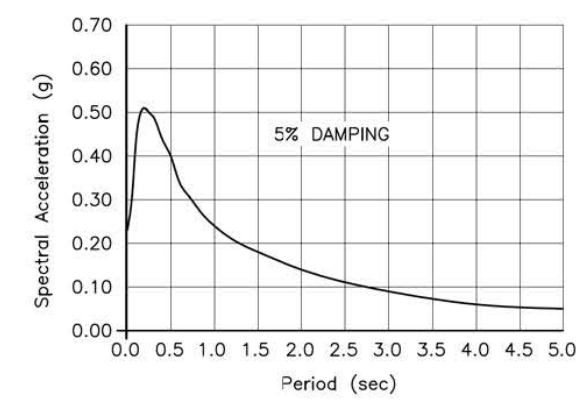
CALTRANS STANDARD PLANS DATED 2015

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
B0-1	BRIDGE DETAILS
RSP B0-3	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP B8-5	CAST-IN-PLACE POST-TENSIONED GIRDER DETAILS
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)



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
- LIVE LOADING: HL93 and permit design load.
- SEISMIC LOADING: Soil profile: Type D
Shear Wave Velocity $V_{s30} = 941$ Ft/s for the top 100 ft soil
Moment Magnitude: 7.0
Peak Ground Acceleration = 0.23g



CONCRETE: $f_y = 60$ ksi
 $f'_c = 3.6$ ksi @ 28 days (UON)
 $n = 8$
See "PRESTRESSING NOTES" on "SLAB DETAILS NO. 1" sheet.

QUANTITIES

DESCRIPTION	UNIT	QUANTITY
STRUCTURE EXCAVATION (TYPE D)	CY	343
STRUCTURE EXCAVATION (ROCK)	CY	26
STRUCTURE BACKFILL (BRIDGE)	CY	254
30" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	173
24" CAST-IN-DRILLED-HOLE CONCRETE PILING (ROCK SOCKET)	LF	60
PRESTRESSING CAST-IN-PLACE CONCRETE	LS	1
STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	68
STRUCTURAL CONCRETE, BRIDGE	CY	108
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	132
BAR REINFORCING STEEL (BRIDGE)	LB	50500
BAR REINFORCING STEEL (EPOXY COATED)(BRIDGE)	LB	16500
HEADED BAR REINFORCEMENT	EA	16
JOINT SEAL (MR = 1")	LF	77
ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	279
ROCK SLOPE PROTECTION (1/4 TON, CLASS V, METHOD B)	CY	320
CALIFORNIA ST-10 BRIDGE RAIL	LF	204

POST 95% PLANS - NOT FOR CONSTRUCTION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 12/18/19

DESIGNED: AP
 DRAWN: EC
 CHECKED: BH
 DATE: 12/18/19
 ROAD NUMBER: 032



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
CREEK BRIDGE REPLACEMENT
DECK CONTOURS

SHEET S-2
29 OF 44
W.D. No. 77135

ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
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 Layout Tab: FP Dec 18, 2019 - 4:20pm AHyde
 Drawing name: U:\16034 - Hanks Exchange Road Bridge - El Dorado Co\400 Project Design Files\430 Bridges & Structures\Plans\HE-S-FP.dwg

BENCH MARKS:

See "Road Plans"

SURVEY DATUM:

HORIZONTAL: NAD 83

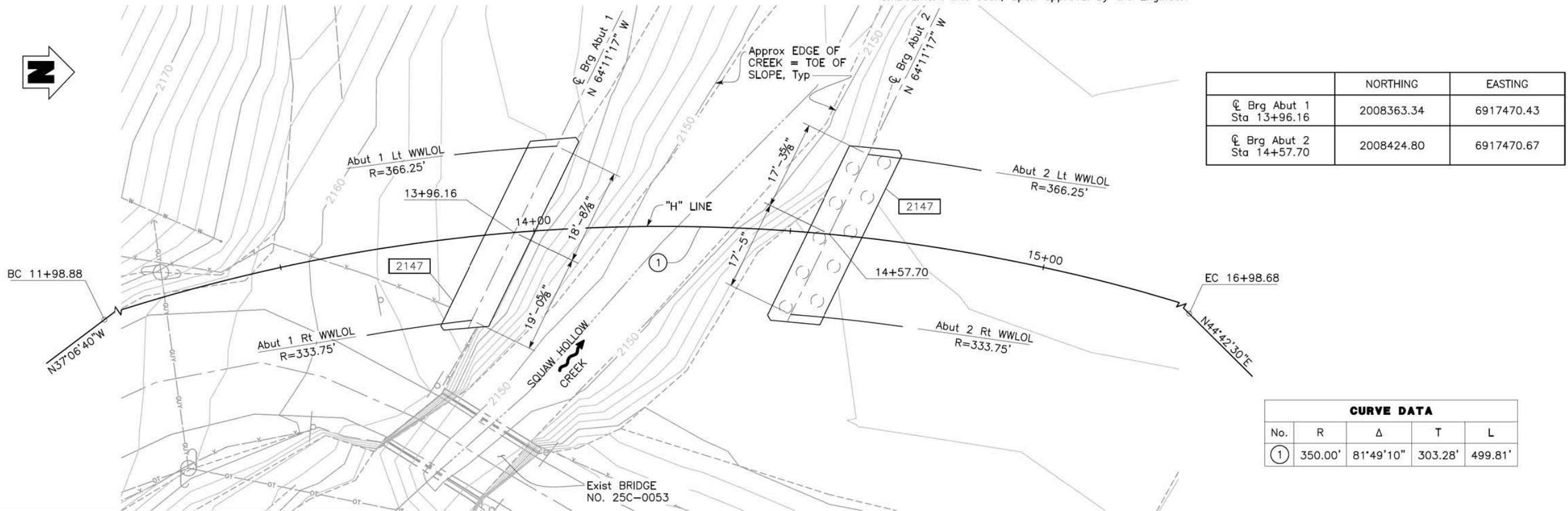
VERTICAL: NAVD 88

SPREAD FOOTING DATA TABLE			
SUPPORT LOCATION	SERVICE PERMISSIBLE NET CONTACT STRESS (SETTLEMENT) (ksf)	STRENGTH/CONSTRUCTION FACTORED GROSS NOMINAL BEARING RESISTANCE $\phi_b = 0.45$ (ksf)	EXTREME EVENT FACTORED GROSS NOMINAL BEARING RESISTANCE $\phi_b = 1.00$ (ksf)
Abut 1	13.97	12.64	N/A

PILE DATA TABLE						
LOCATION	PILE TYPE	NOMINAL RESISTANCE		CUT-OFF ELEVATION	DESIGN TIP ELEVATION	SPECIFIED TIP ELEVATION
		COMPRESSION	TENSION			
Abut 2	30"Ø CIDH AND 24"Ø CIDH (ROCK SOCKET)	275	N/A	2147.25	2124(A)	2124

NOTE:

- Design tip elevation is controlled by the following demands: (A) compression.
- Pile tips may be raised if rock encountered at a higher elevation, provided a minimum 6FT embedment into rock, upon approval by the Engineer.



	NORTHING	EASTING
☉ Brg Abut 1 Sta 13+96.16	2008363.34	6917470.43
☉ Brg Abut 2 Sta 14+57.70	2008424.80	6917470.67

CURVE DATA				
No.	R	Δ	T	L
①	350.00'	81°49'10"	303.28'	499.81'

HYDROLOGIC SUMMARY				
DRAINAGE AREA: 3.97 SQUARE MILES				
	Without Existing Bridge		With Existing Bridge	
Flood Type	Design Flood	Base Flood	Design Flood	Base Flood
Frequency (Years)	50	100	50	100
Discharge (Cubic feet per second)	792	951	792	951
Water Surface (Elevation at Bridge)	2154.2	2154.7	TBD	TBD

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 State, County or City and interested or affected parties should make their own investigation.

PLAN

1" = 10'

SCOUR DATA TABLE		
Support Number	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
Abutment 1	TBD	TBD
Abutment 2	TBD	TBD

LEGEND:

- Indicates Bottom of Footing Elevation
- Indicates Direction of Water Flow
- Indicates Existing Bridge
- Indicates New Structure
- Indicates CIDH Pile

POST 95% PLANS - NOT FOR CONSTRUCTION

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 REGISTERED CIVIL ENGINEER
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DESIGNED: AP
 DRAWN: EC
 CHECKED: BH
 DATE: 12/18/19
 ROAD NUMBER: 032

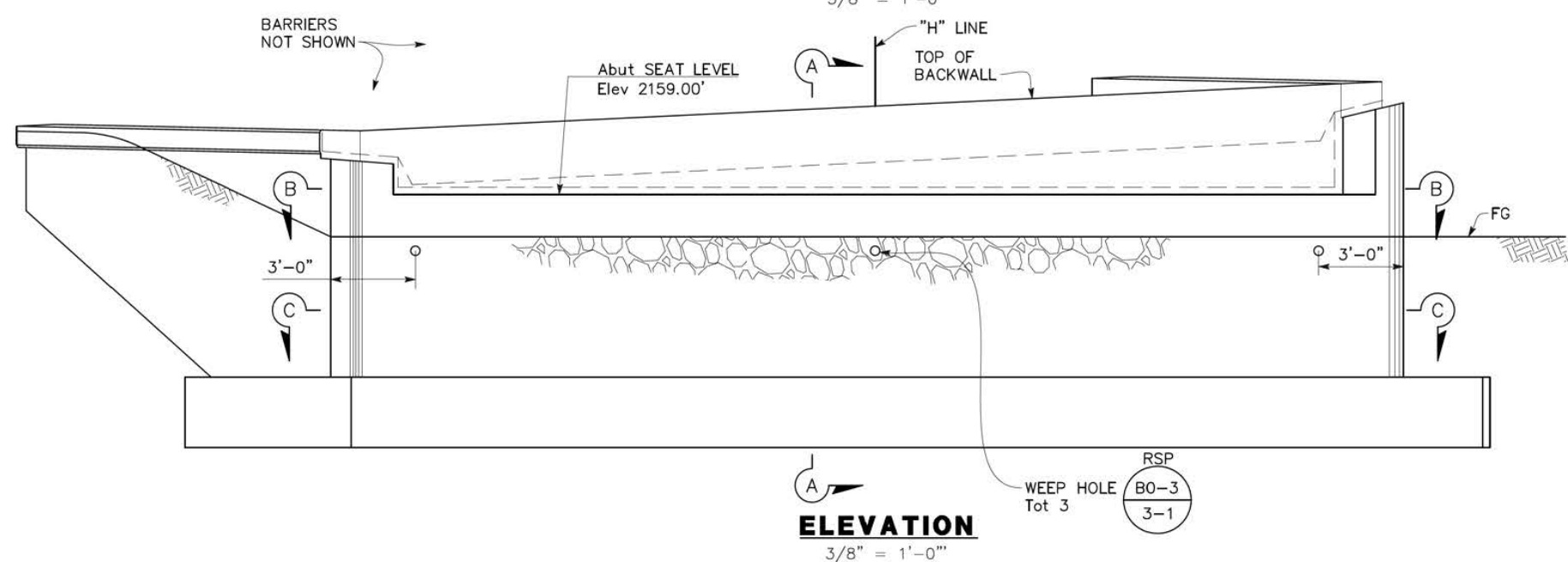
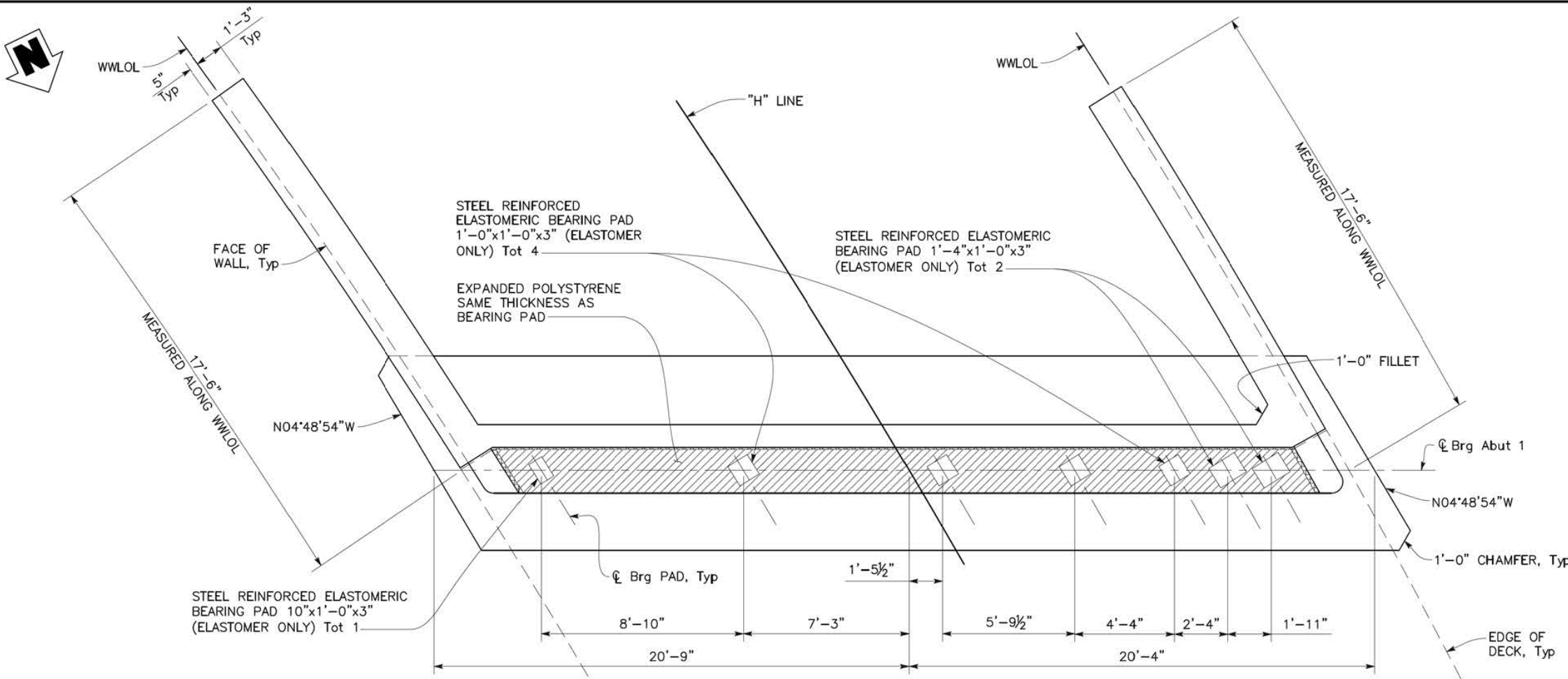


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 FOUNDATION PLAN

SHEET
 S-3
 30 OF 44
 W.D. No. 77135

ORIGINAL SCALE IS IN INCHES
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- NOTES:**
1. For "SECTION A-A" and "BEARING PAD DETAIL", see "ABUTMENT DETAILS NO. 2" sheet.
 2. For "SECTION B-B", see "ABUTMENT DETAILS NO. 3" sheet.
 3. For "SECTION C-C", see "ABUTMENT DETAILS NO. 4" sheet.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 12/18/19

DESIGNED: AP
 DRAWN: EC
 CHECKED: BH
 DATE: 12/18/19
 ROAD NUMBER: 032



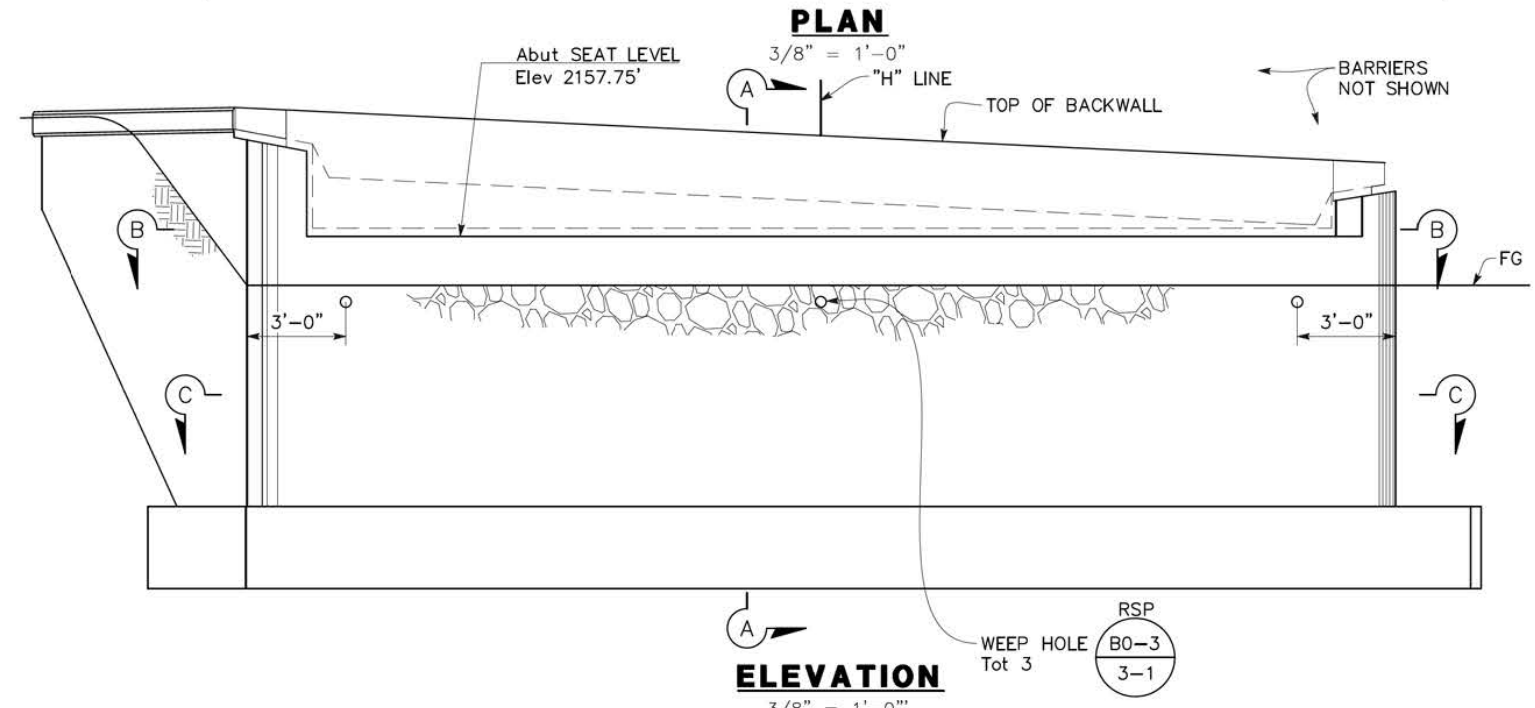
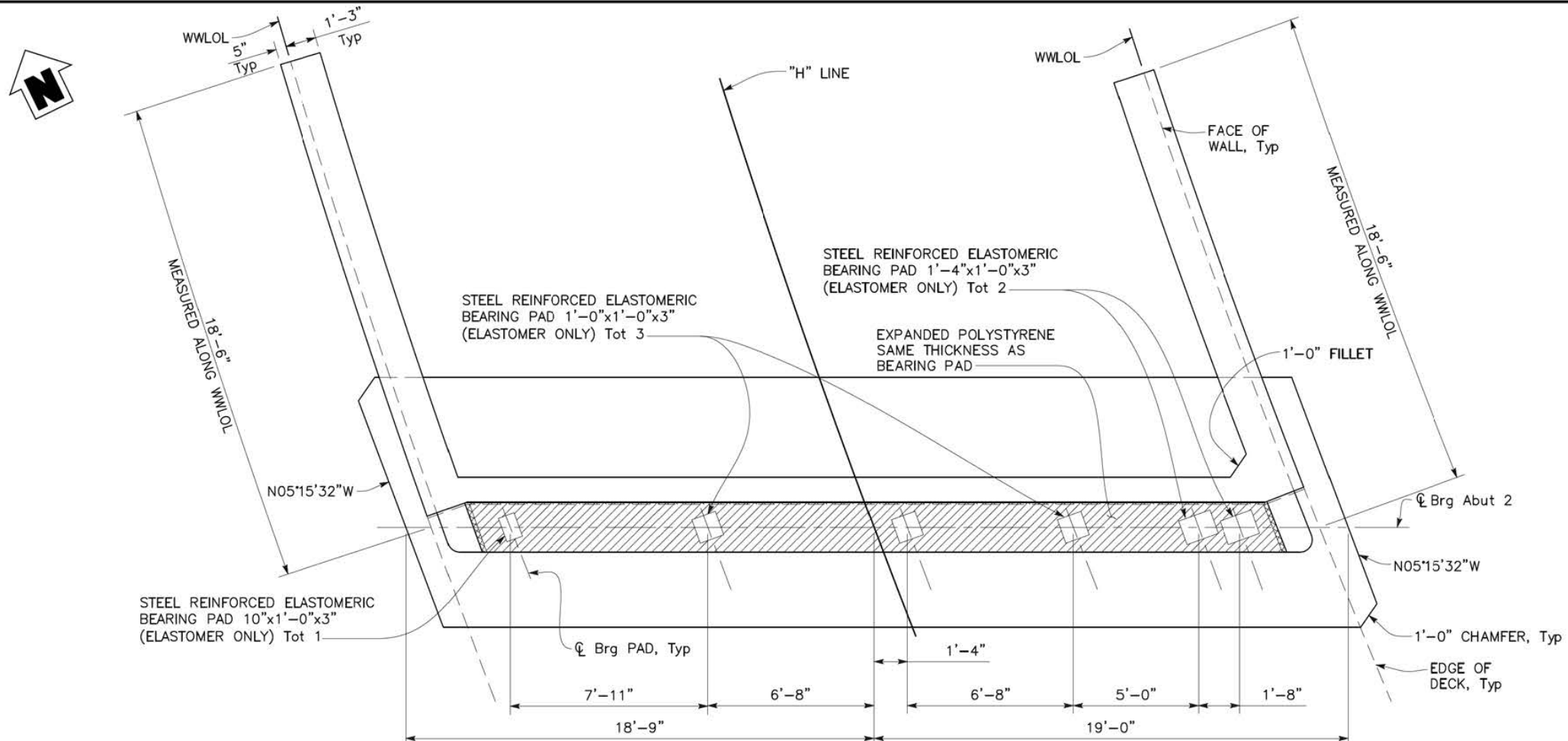
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 ABUTMENT 1 LAYOUT

SHEET
 S-4
 31 OF 44
 W.O. No. 77135

POST 95% PLANS - NOT FOR CONSTRUCTION

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 FOR REDUCED PLANS
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- NOTES:**
1. For "SECTION A-A" and "BEARING PAD DETAIL", see "ABUTMENT DETAILS NO. 2" sheet.
 2. For "SECTION B-B", see "ABUTMENT DETAILS NO. 3" sheet.
 3. For "SECTION C-C", see "ABUTMENT DETAILS NO. 4" sheet.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 12/18/19

DESIGNED: AP	DRAWN: EC
CHECKED: BH	DATE: 12/18/19
ROAD NUMBER: 032	



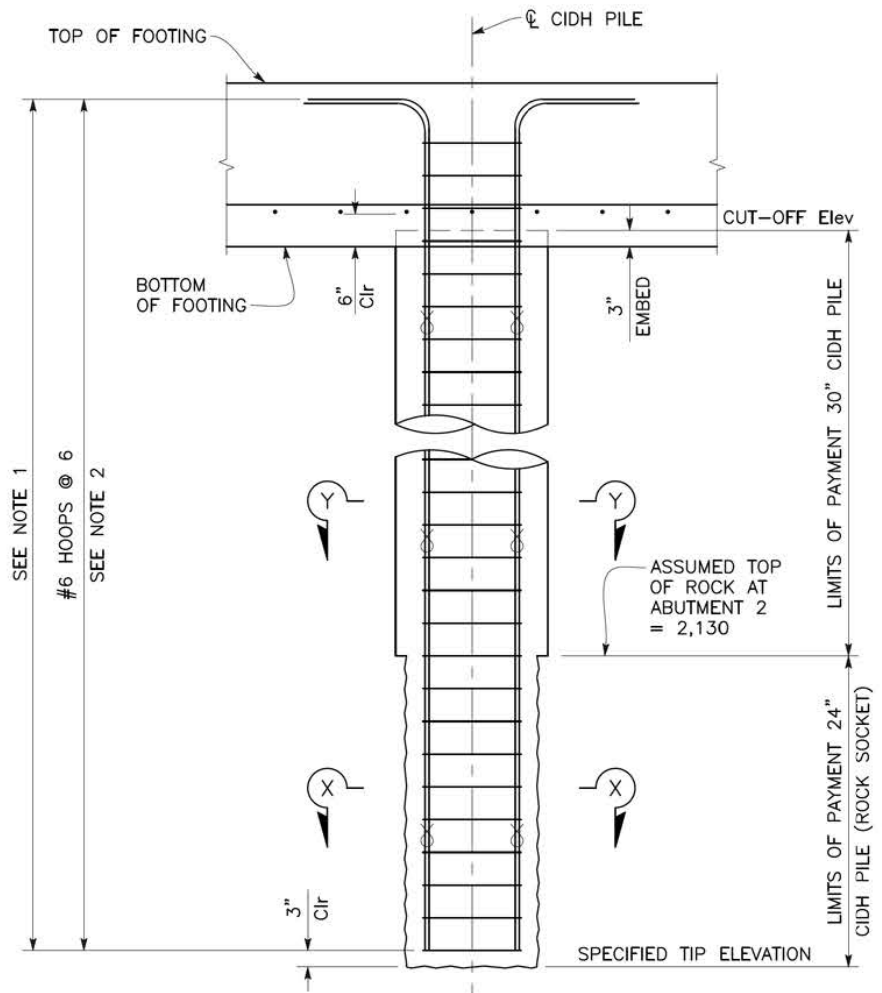
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 ABUTMENT 2 LAYOUT

SHEET S-5
 32 OF 44
 W.D. No. 77135

POST 95% PLANS - NOT FOR CONSTRUCTION

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 REVISION
 NUMBER DATE DESCRIPTION BY



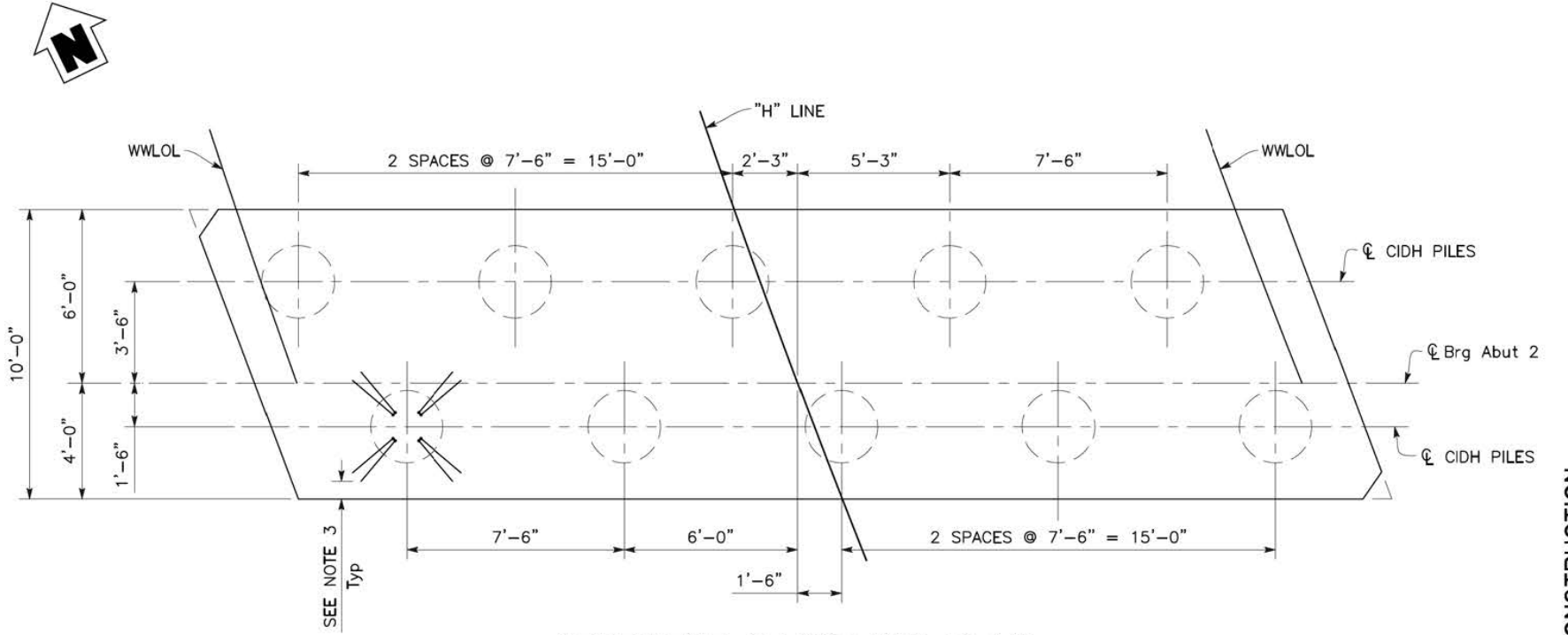
CIDH PILE ELEVATION
3/4" = 1'-0"

NOTES:

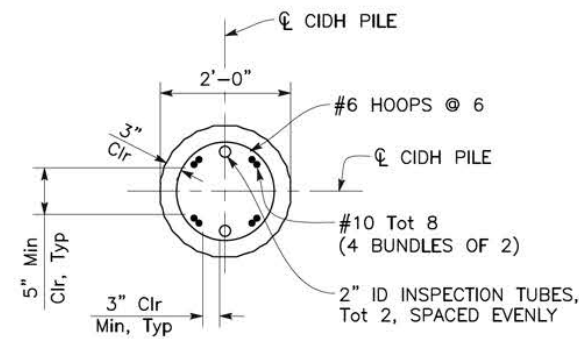
1. No Splices allowed in the pile main CIDH longitudinal reinforcement.
2. All hoops must be "Ultimate" butt spliced continuous.
3. Place longitudinal reinforcement hooks a minimum of 3" clr of edge of footing.

LEGEND:

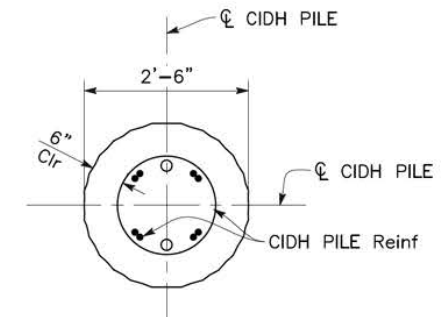
⊗ Indicates Bundled Reinforcement



ABUTMENT 2 FOOTING PLAN
3/8" = 1'-0"



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



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

FOR DETAILS NOT SHOWN, SEE SECTION X-X

POST 95% PLANS - NOT FOR CONSTRUCTION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 No. C20659
 Exp. 03/31/21
 DATE: 12/18/19

DESIGNED: AP
 DRAWN: EC
 CHECKED: BH
 DATE: 12/18/19
 ROAD NUMBER: 032

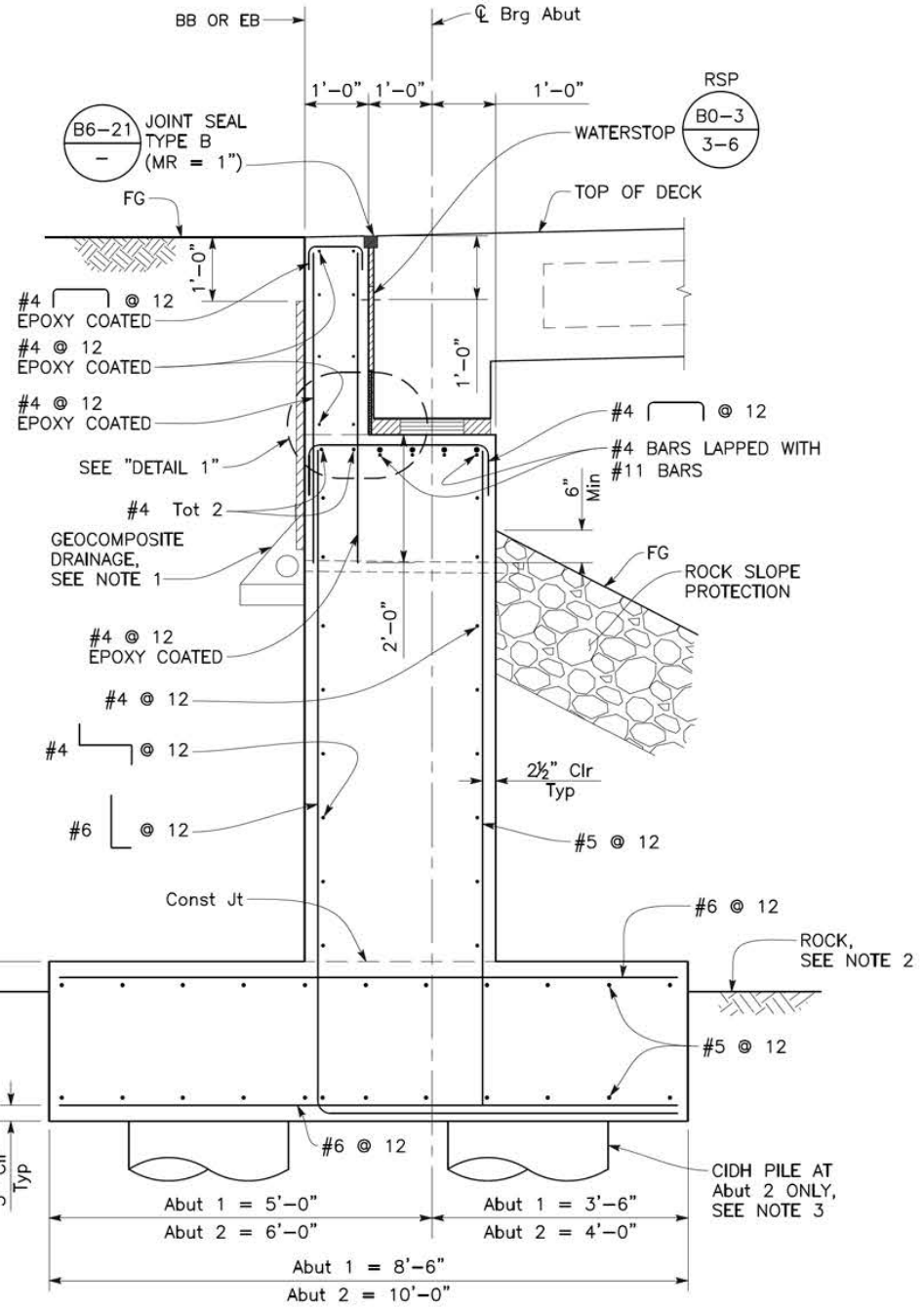


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

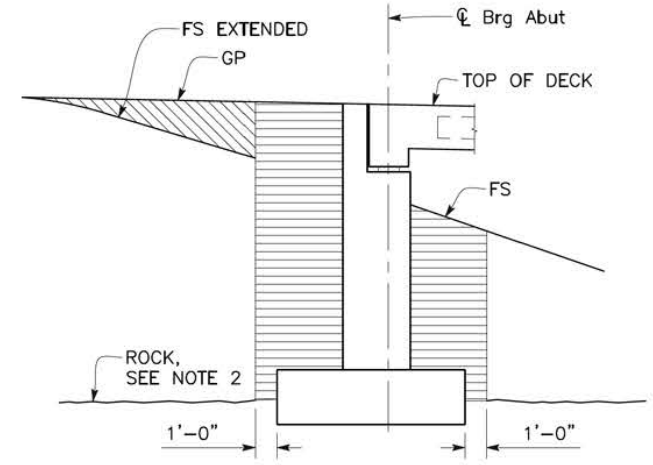
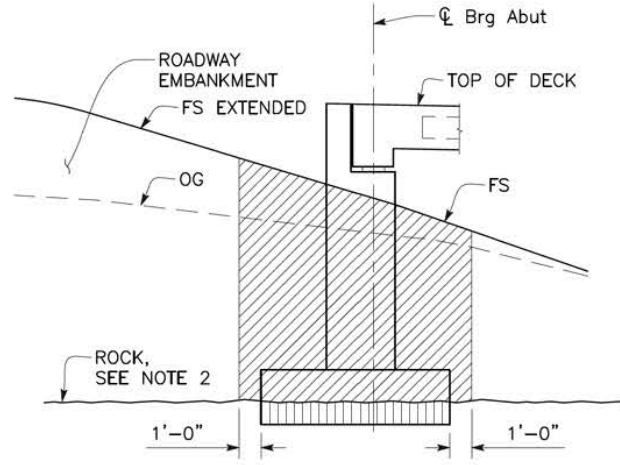
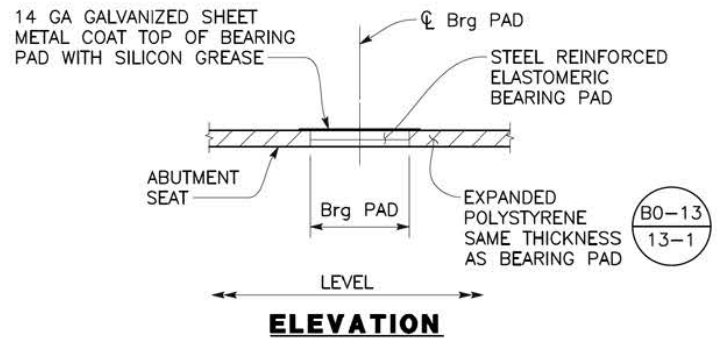
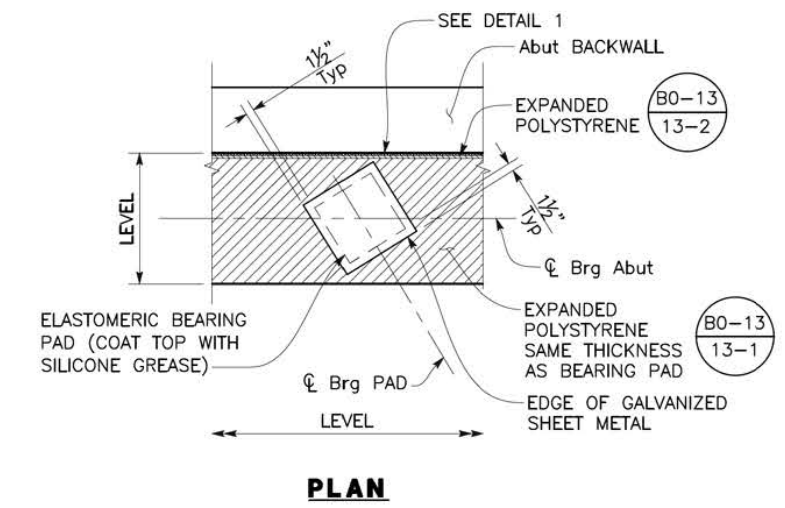
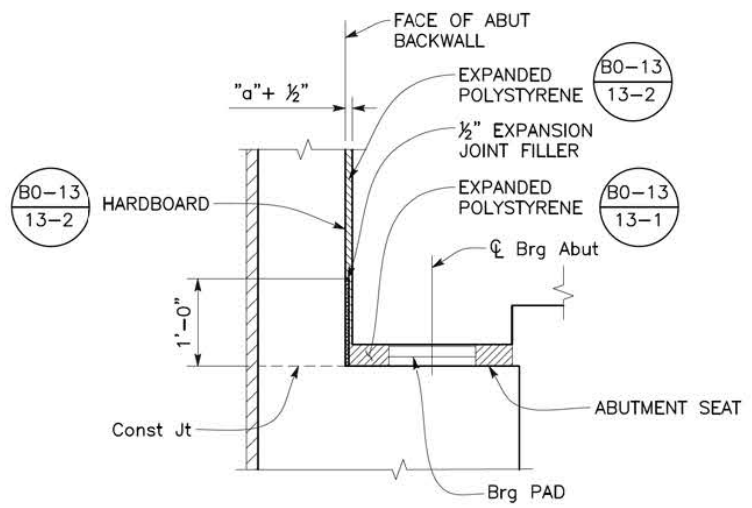
HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 ABUTMENT DETAILS NO. 1

SHEET
 S-6
 33 OF 44
 W.D. No. 77135

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- NOTES:**
1. For "DRAINAGE DETAILS", see "ABUTMENT DETAILS NO. 4" sheet.
 2. Assumed top of rock elevation is 2149 at Abutment 1 only.
 3. For CIDH Pile details, see "ABUTMENT DETAILS NO. 1" sheet.
 4. For wingwall excavation and backfill see **A62C**.



LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL

NO SCALE

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DESIGNED: AP
 DRAWN: EC
 CHECKED: BH
 DATE: 12/18/19
 ROAD NUMBER: 032

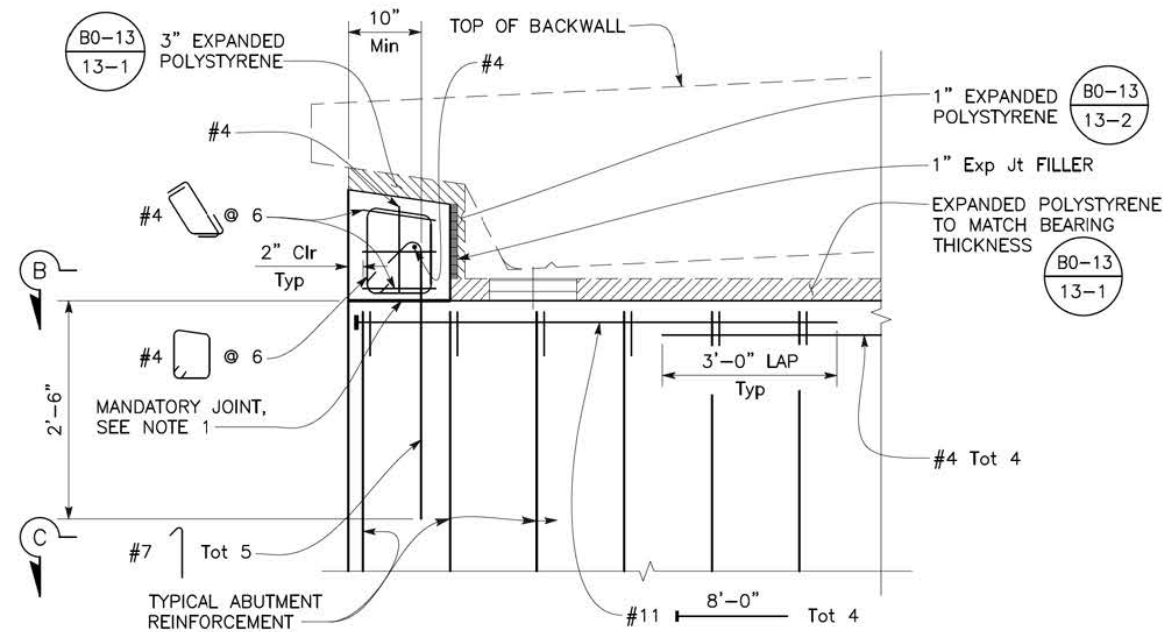


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 ABUTMENT DETAILS NO. 2

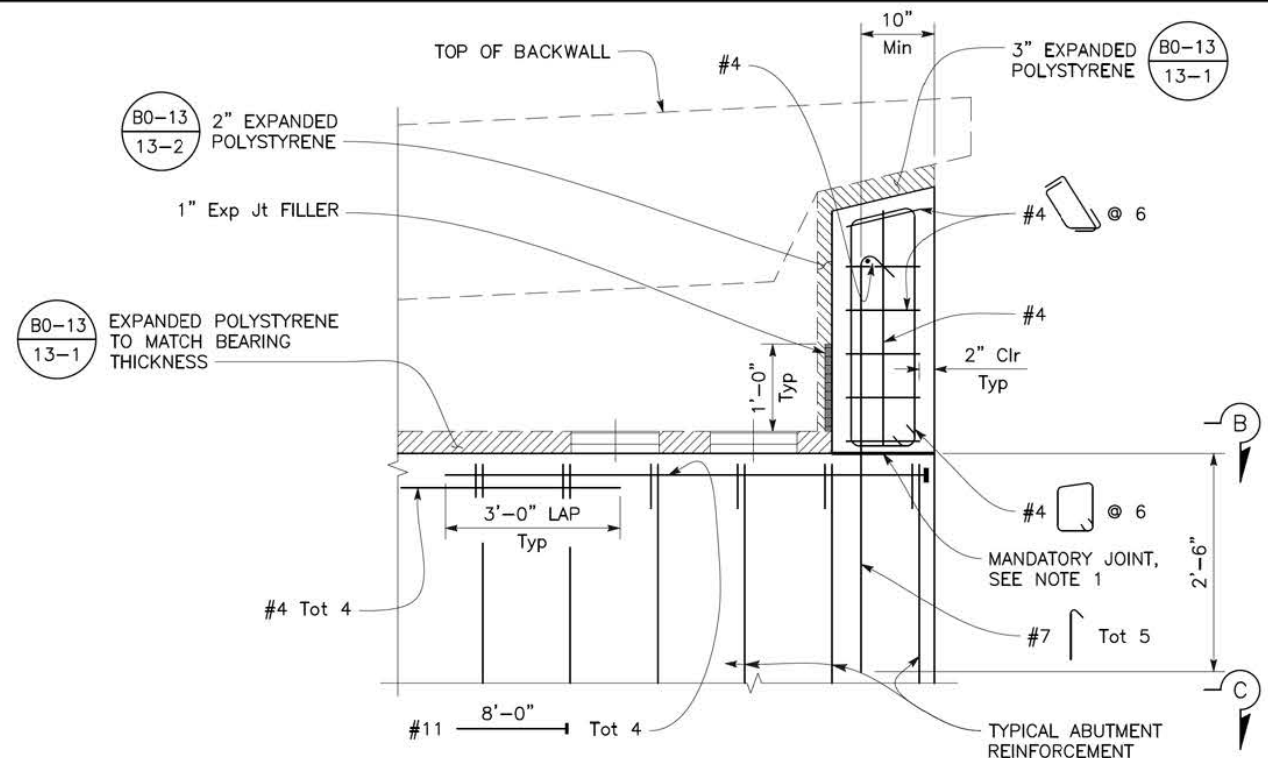
SHEET
 S-7
 34 OF 44
 W.D. No. 77135

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 FOR REDUCED PLANS
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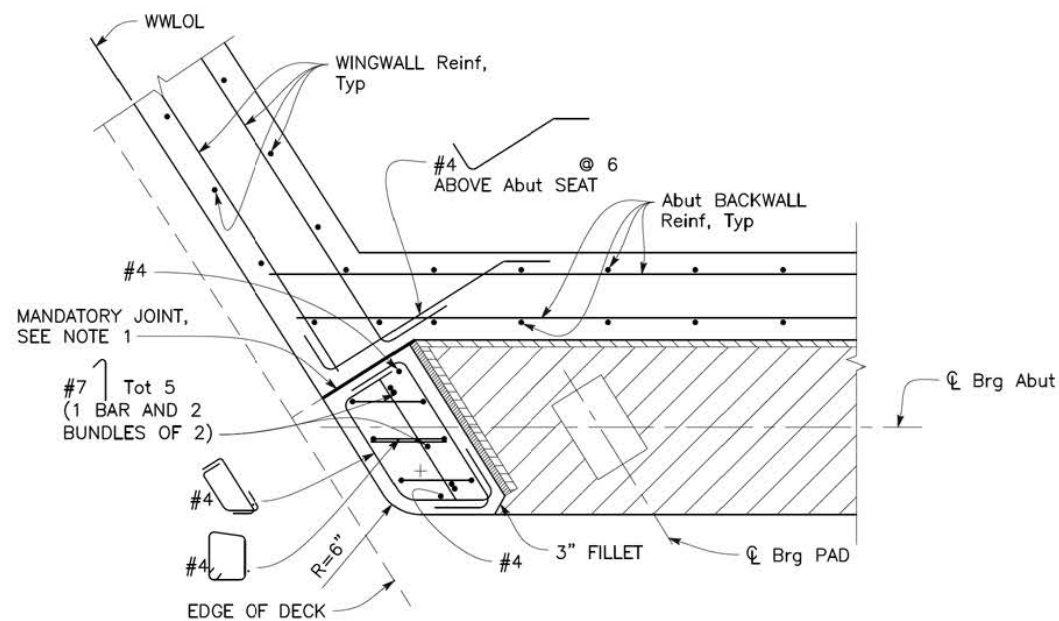
RIGHT SHEAR KEY ELEVATION

1" = 1'-0"
 ABUTMENT 1 SHEAR KEY SHOWN, ABUTMENT 2 SHEAR KEY SIMILAR



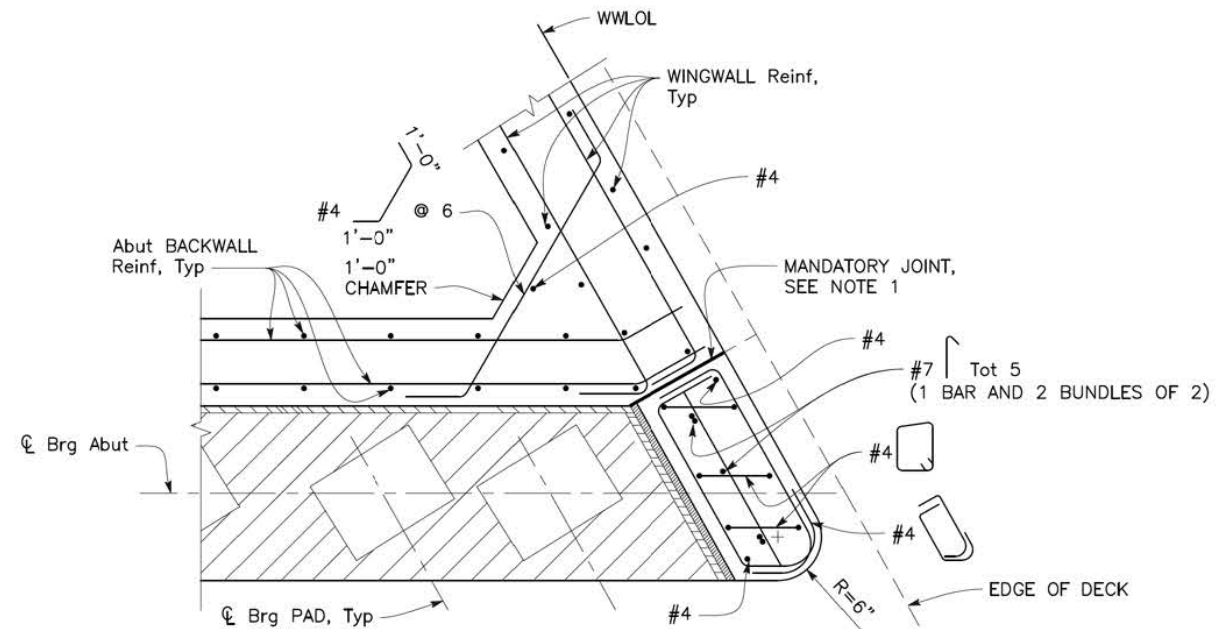
LEFT SHEAR KEY ELEVATION

1" = 1'-0"
 ABUTMENT 1 SHEAR KEY SHOWN, ABUTMENT 2 SHEAR KEY SIMILAR



SECTION B-B

1" = 1'-0"
 ABUTMENT 1 SECTION B-B SHOWN, ABUTMENT 2 SECTION B-B SIMILAR



NOTES:

- Mandatory joint surface with stem seat and backwall shall be trowel-finished smooth and lined with 15 pound construction paper.
- For "SECTION C-C", see "ABUTMENT DETAILS NO. 4" sheet.

POST 95% PLANS - NOT FOR CONSTRUCTION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 12/18/19

DESIGNED: AP DRAWN: EC
 CHECKED: BH DATE: 12/18/19
 ROAD NUMBER: 032

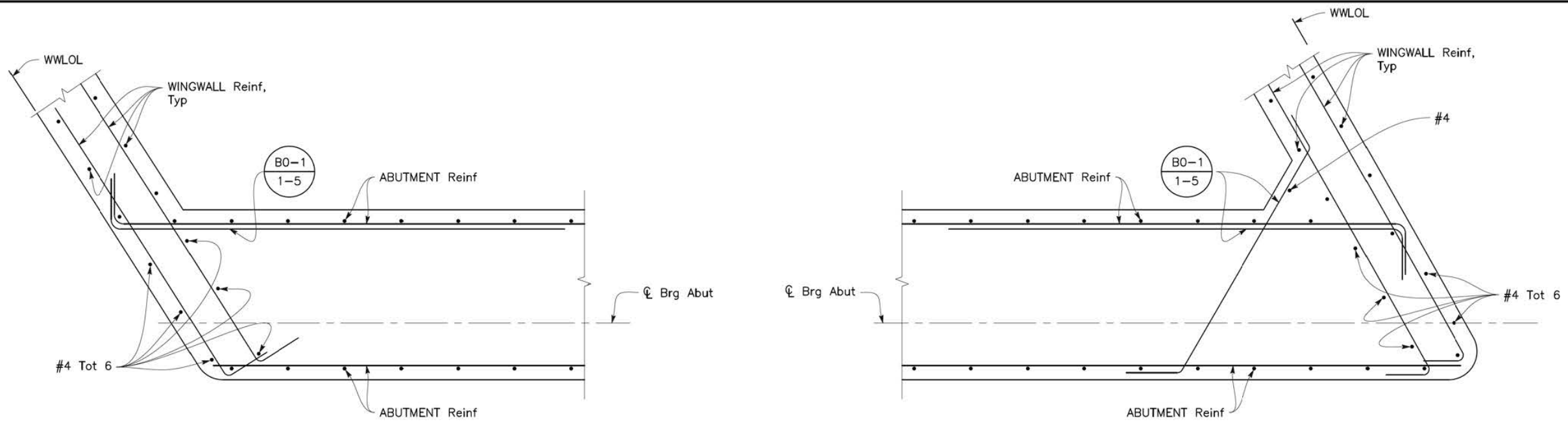


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 ABUTMENT DETAILS NO. 3

SHEET
 S-8
 35 OF 44
 W.D. No. 77135

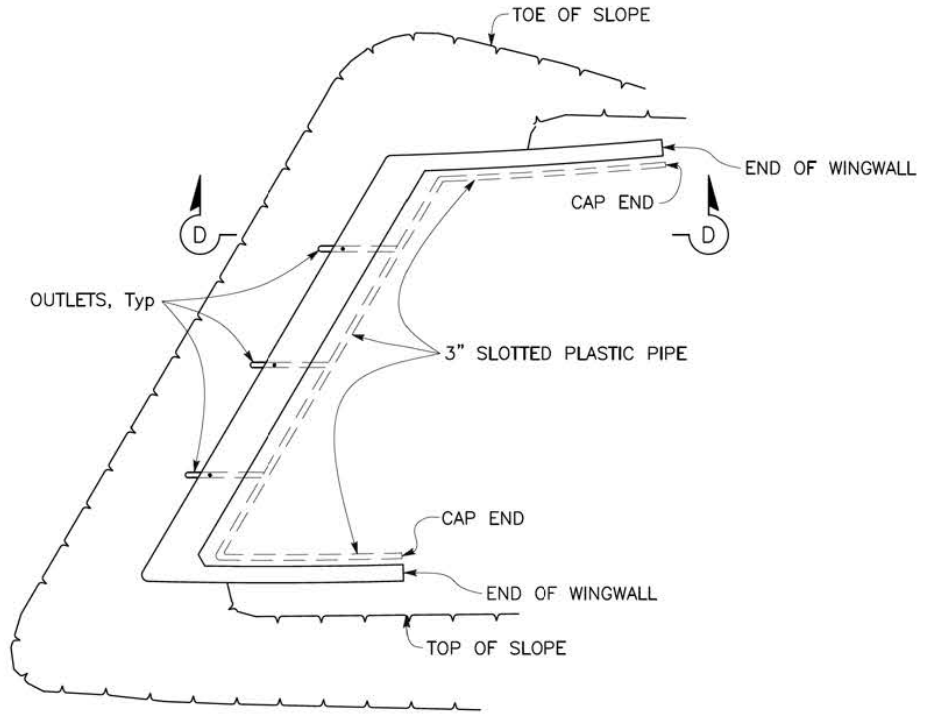
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 FOR REDUCED PLANS



SECTION C-C

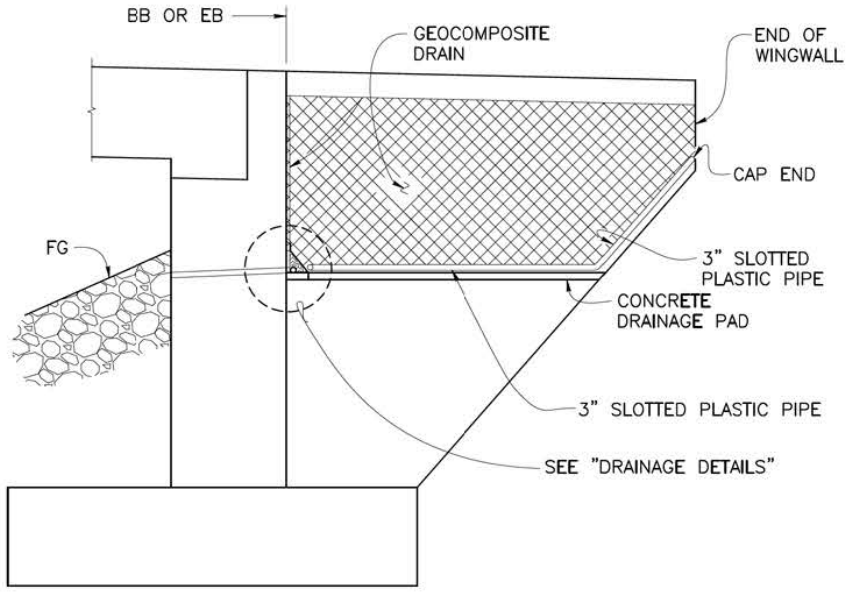
1" = 1'-0"

ABUTMENT 1 SECTION C-C SHOWN, ABUTMENT 2 SECTION C-C SIMILAR



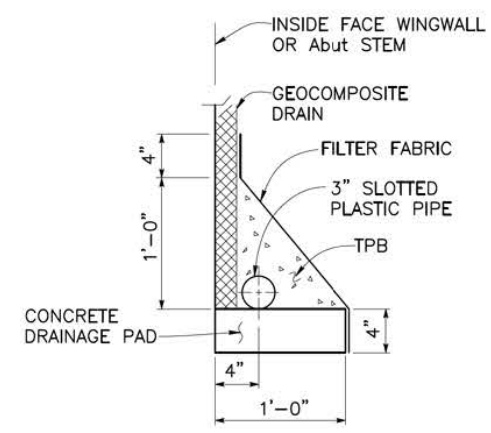
PLAN

NO SCALE



SECTION D-D

1" = 1'-0"



DRAINAGE DETAILS

1" = 1'-0"

POST 95% PLANS - NOT FOR CONSTRUCTION

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[Signature]
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 DATE: 12/18/19

DESIGNED: AP DRAWN: EC
 CHECKED: BH DATE: 12/18/19
 ROAD NUMBER: 032

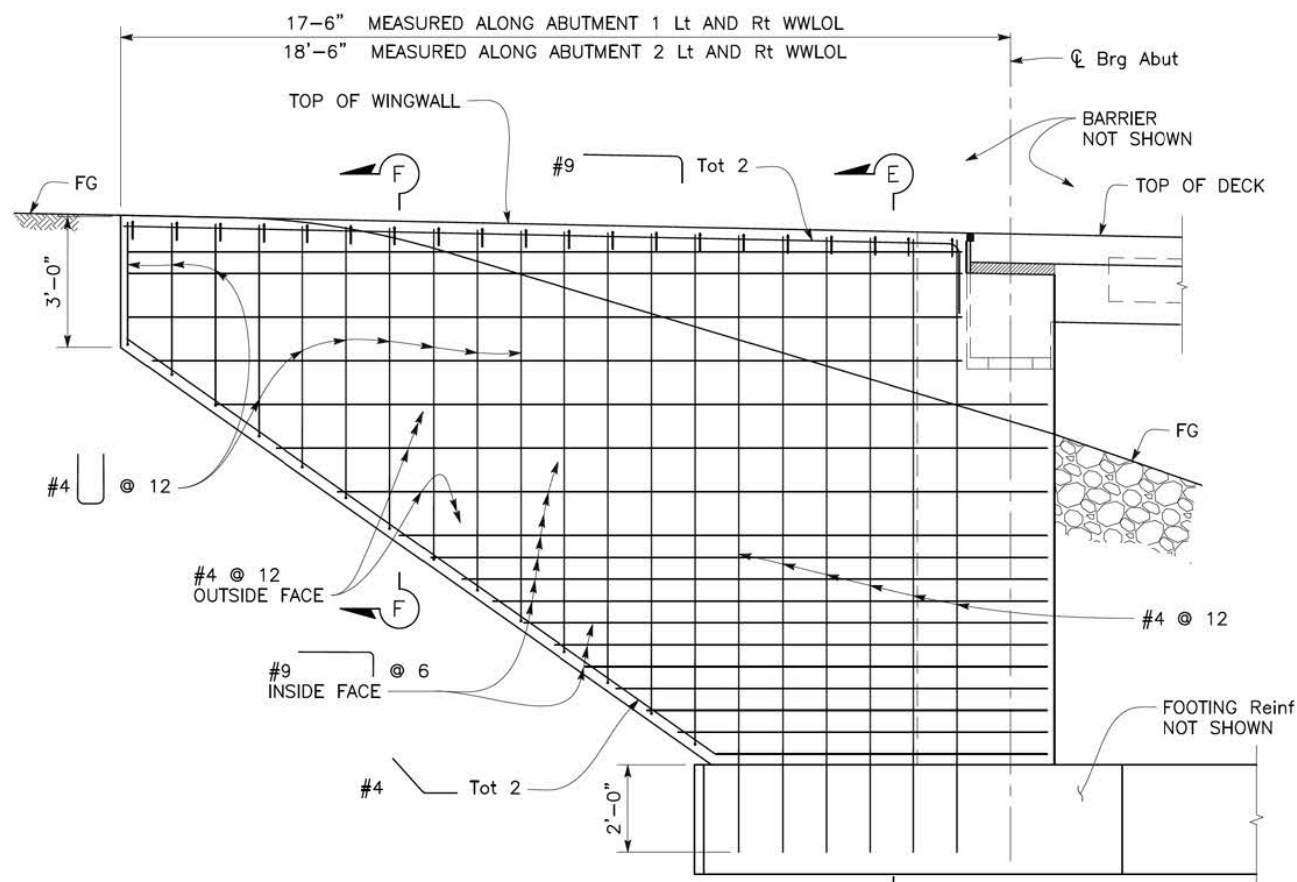


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 ABUTMENT DETAILS NO. 4

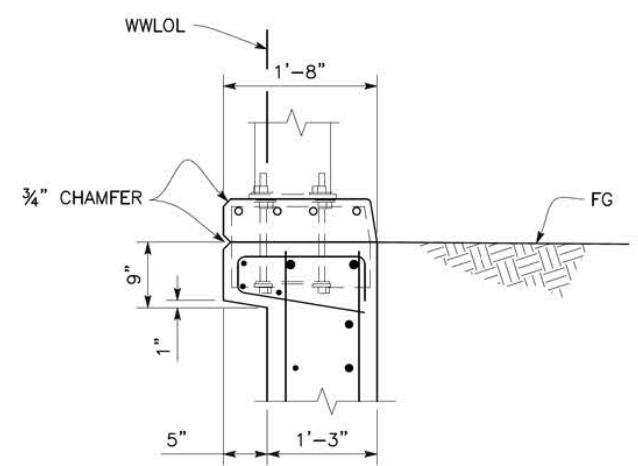
SHEET S-9
 36 OF 44
 W.D. No. 77135

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 FOR REDUCED PLANS 2
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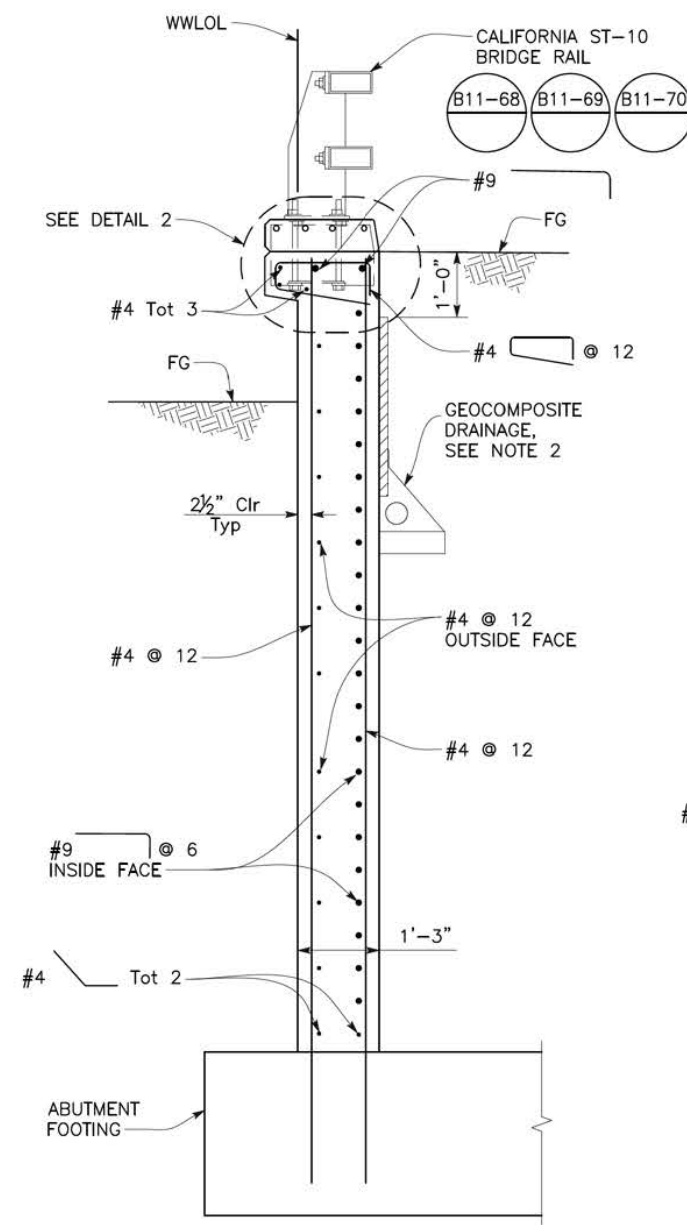
WINGWALL ELEVATION

1/2" = 1'-0"
 ABUTMENT 1 RIGHT WINGWALL SHOWN, ALL OTHERS SIMILAR



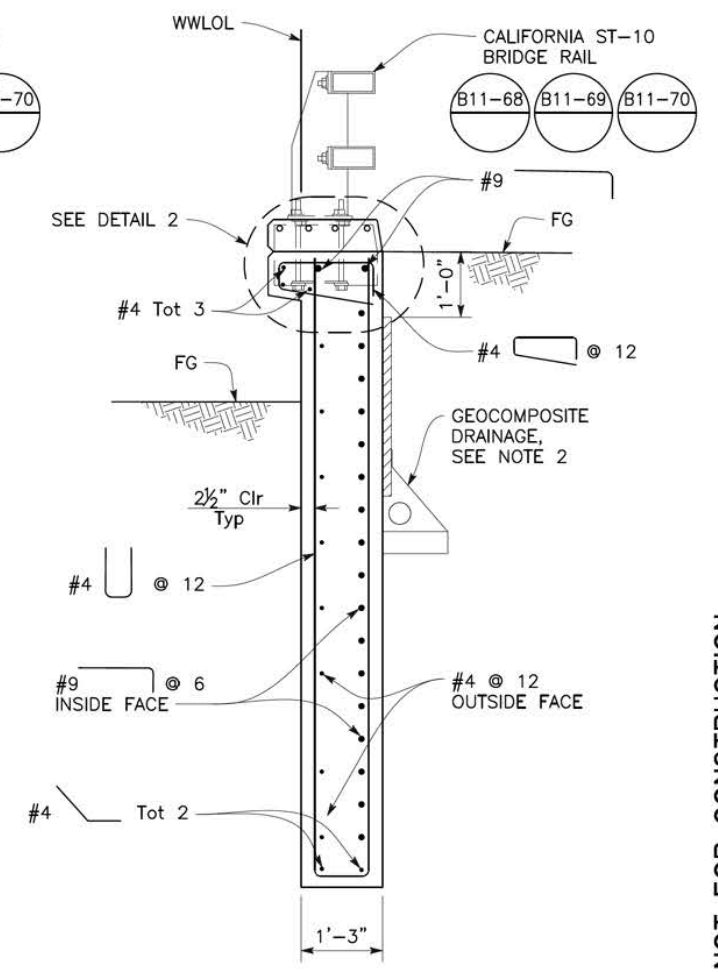
DETAIL 2

1" = 1'-0"



SECTION E-E

3/4" = 1'-0"



SECTION F-F

3/4" = 1'-0"

NOTES:

1. For Wingwall information not shown, see "ABUTMENT 1 LAYOUT" and "ABUTMENT 2 LAYOUT" sheets.
2. For "DRAINAGE DETAILS", see "ABUTMENT DETAILS NO. 4" sheet.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 12/18/19

DESIGNED: AP DRAWN: EC
 CHECKED: BH DATE: 12/18/19
 ROAD NUMBER: 032



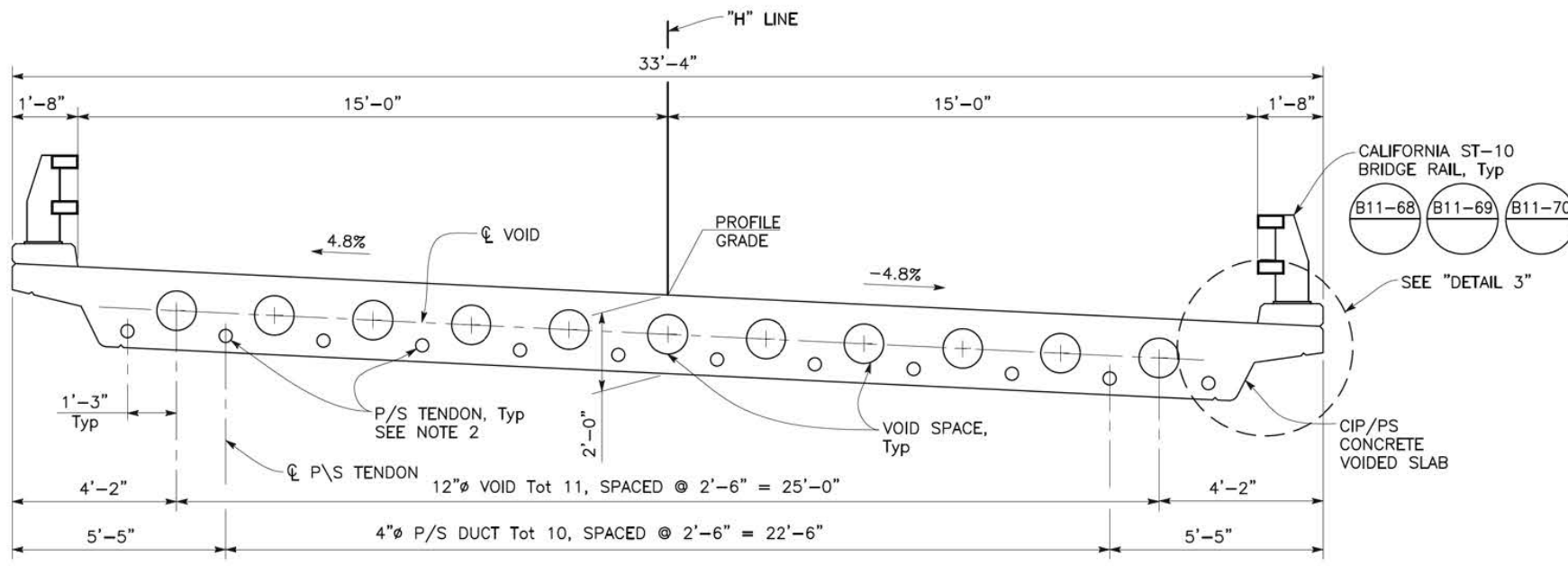
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 ABUTMENT DETAILS NO. 5

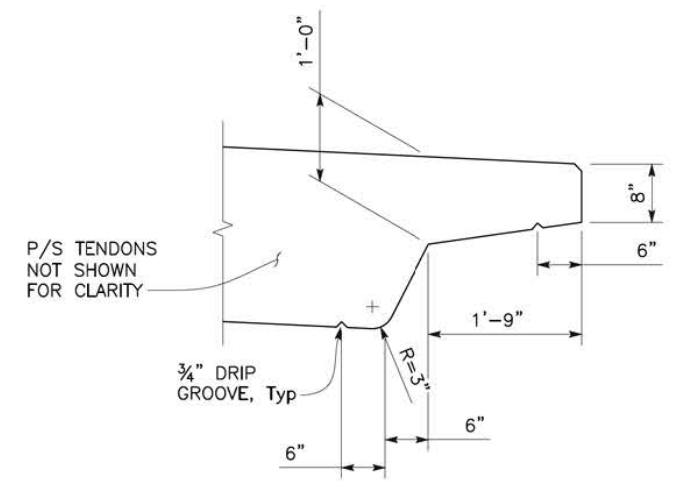
SHEET
 S-10
 37 OF 44
 W.O. No. 77135

POST 95% PLANS - NOT FOR CONSTRUCTION

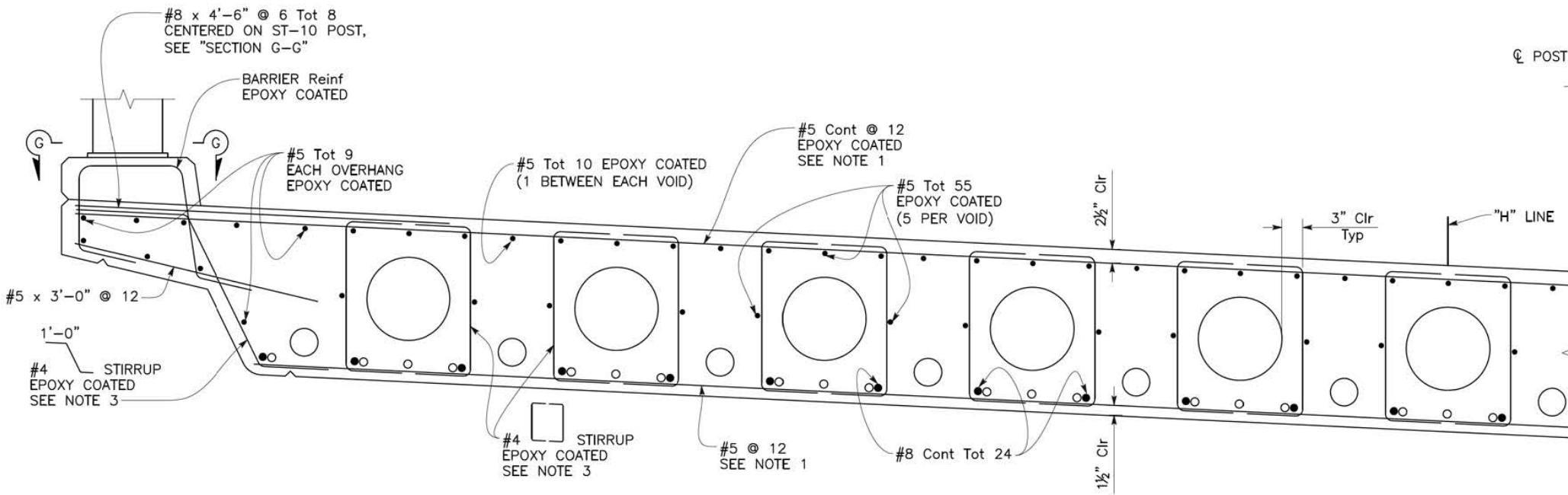
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TYPICAL SECTION
 $\frac{1}{2}'' = 1'-0''$



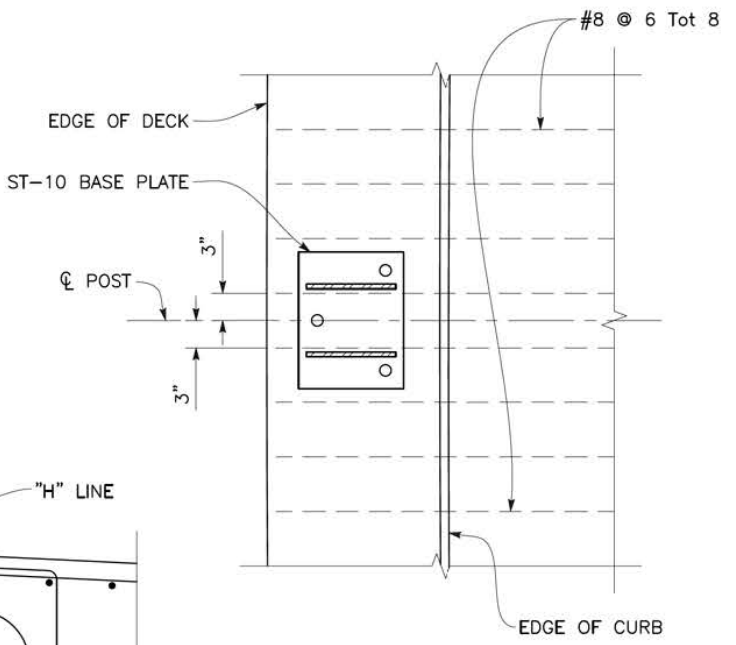
DETAIL 3
 $1'' = 1'-0''$



PART TYPICAL SECTION
 $1\frac{1}{2}'' = 1'-0''$

LEGEND:

○ Indicates additional bottom reinforcement, see "SLAB DETAILS NO. 2" sheet.



SECTION G-G
 $1\frac{1}{2}'' = 1'-0''$

NOTES:

1. Transverse reinforcement must be placed perpendicular to and measured along ϕ Bridge.
2. For post tensioning layout and other details not shown, see "SLAB LAYOUT" sheet.
3. For stirrup spacing and layout, see "SLAB LAYOUT" sheet.

POST 95% PLANS - NOT FOR CONSTRUCTION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 12/18/19

DESIGNED: AP DRAWN: EC
 CHECKED: BH DATE: 12/18/19
 ROAD NUMBER: 032

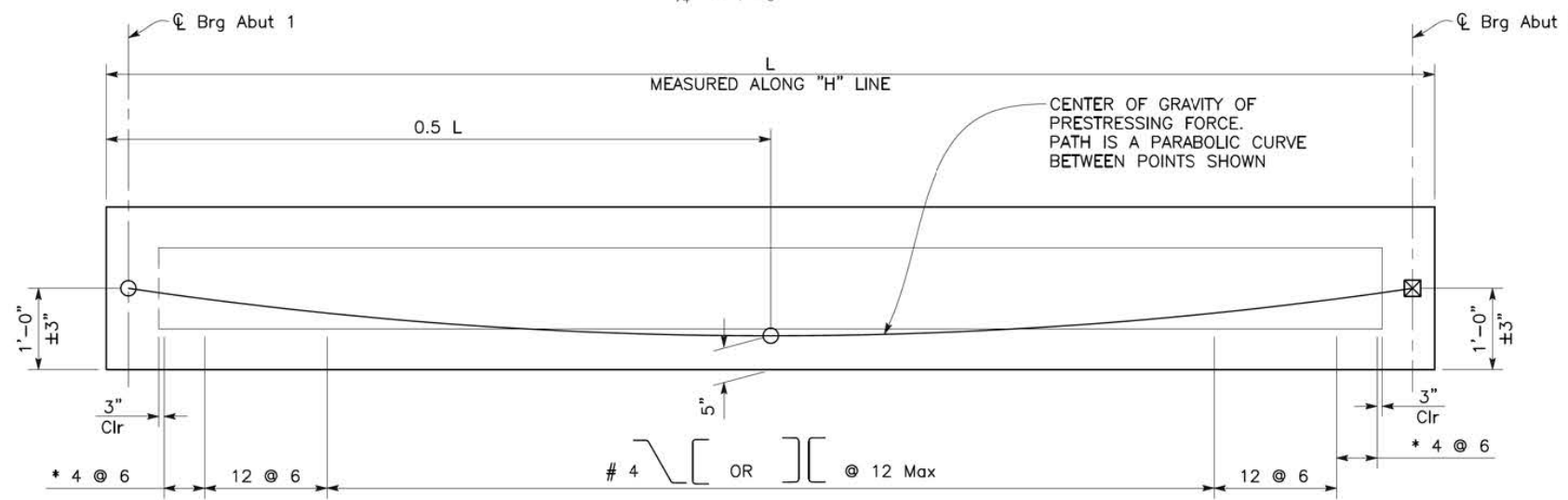
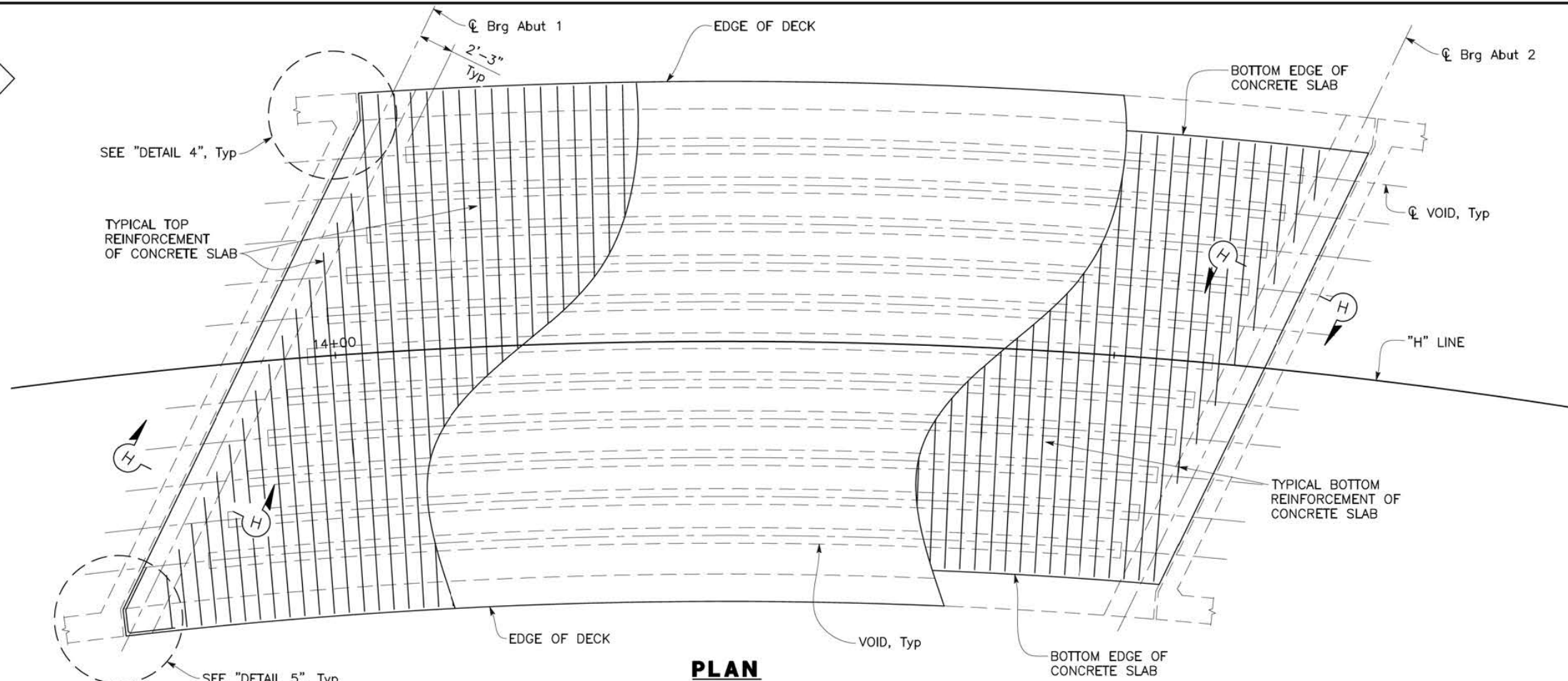


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 TYPICAL SECTION

SHEET
 S-11
 38 OF 44
 W.D. No. 77135

ORIGINAL SCALE IS IN INCHES
 Drawing name: U:\16034 - Hanks Exchange Road Bridge - El Dorado Co\400 Project Design Files\430 Bridges & Structures\Plans\HE-S-SL.dwg
 Layout Tab: SL Dec 18, 2019 - 4:22pm AHyde
 FOR REDUCED PLANS



NOTES:

1. For "SECTION H-H", "DETAIL 4" and "DETAIL 5", see "SLAB DETAILS NO. 1 sheet.
- ☒ Indicates theoretical point of no movement for one end stressing at Abutment 1, Abutment 2 stressing similar.

LONGITUDINAL SECTION
NO SCALE

POST 95% PLANS - NOT FOR CONSTRUCTION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 12/18/19

DESIGNED: AP
 DRAWN: EC
 CHECKED: BH
 DATE: 12/18/19
 ROAD NUMBER: 032

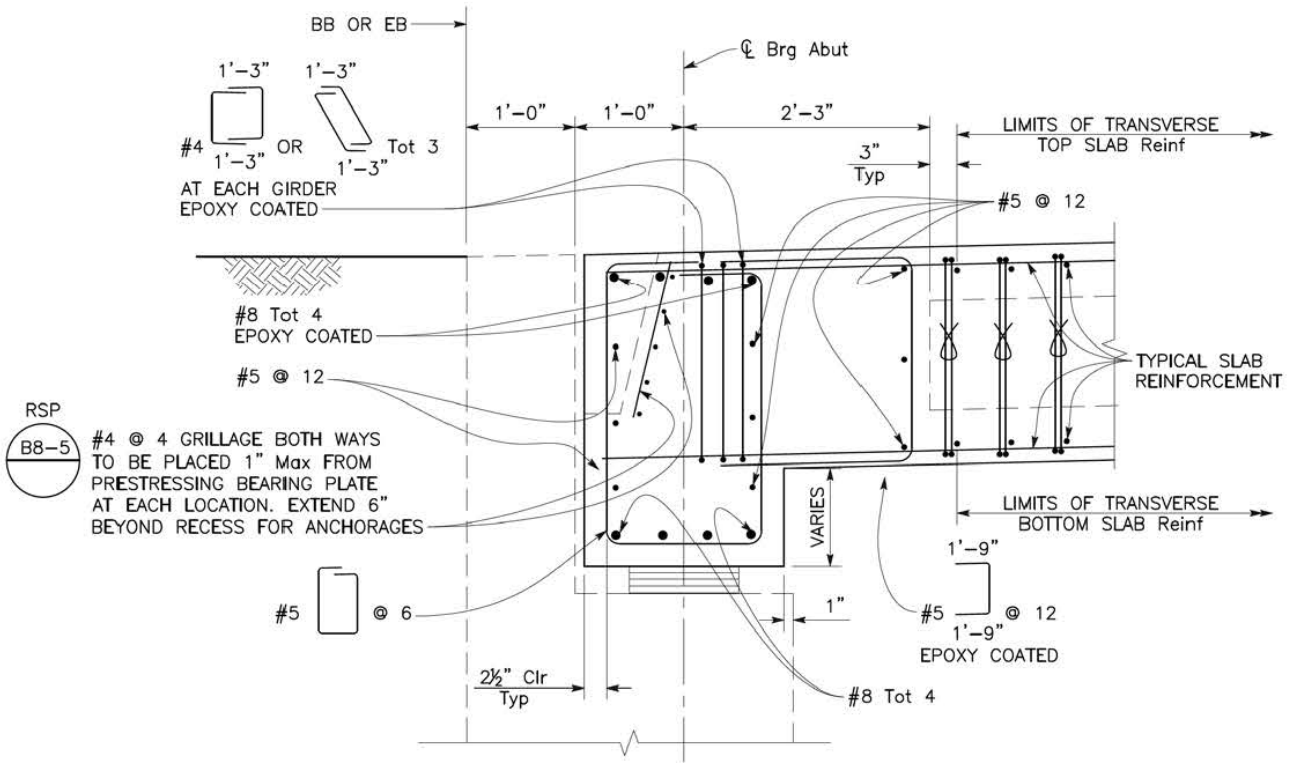


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 SLAB LAYOUT

SHEET
 S-12
 39 OF 44
 W.D. No. 77135

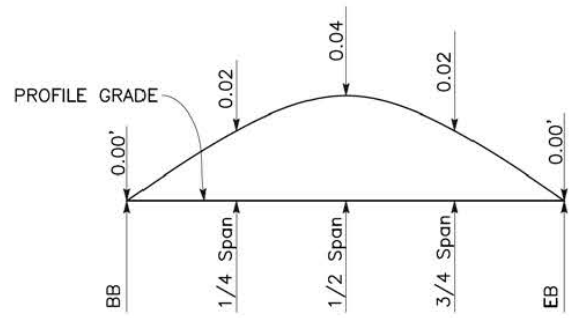
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 FOR REDUCED PLANS
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 Drawing name: U:\16034 - Hanks Exchange Road Bridge - El Dorado Co\400 Project Design Files\430 Bridges & Structures\Plans\HE-S-SL.dwg



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

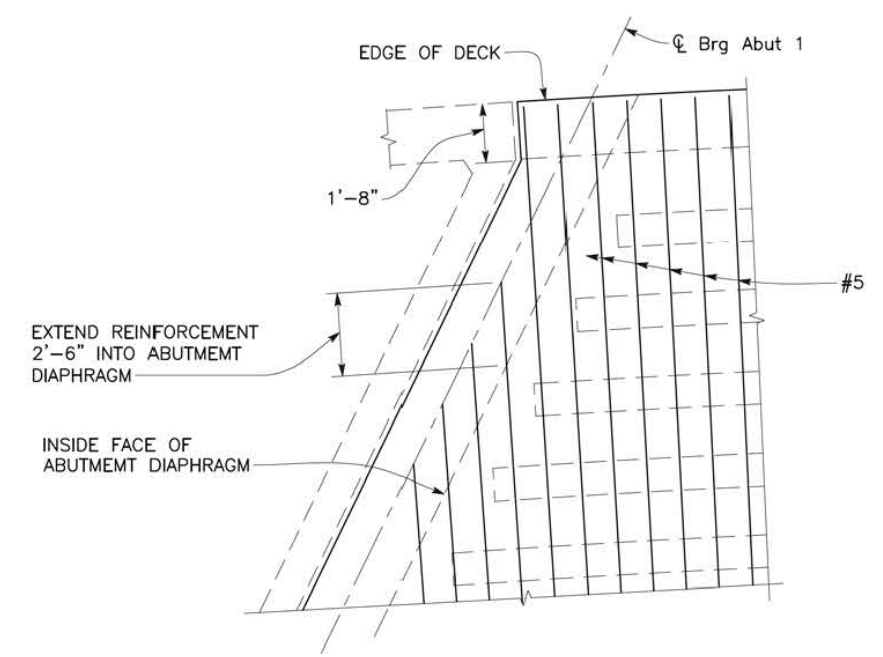
PRESTRESSING NOTES

270 ksi Low Relaxation Strand:
 Pjack = 10,018 kips
 Anchor set = 3/8"
 Total Number of Prestressing Tendons = 12
 Friction Curvature Coefficient, $\mu = 0.15/\text{rad}$
 Friction Wobble Coefficient, $k = 0.0002/\text{ft}$
 The jacking force ratio (larger divided by smaller) between any two girders/tendons must not exceed the ratio of 10 to 9.
 Concrete: $f'c = 4,500 \text{ psi @ 28 days}$
 $f'ci = 3,600 \text{ psi @ time of stressing}$
 Contractor must submit elongation calculations based on initial stress at $0.958 \times$ Jacking stress.
 One end stressing shall be performed from either end

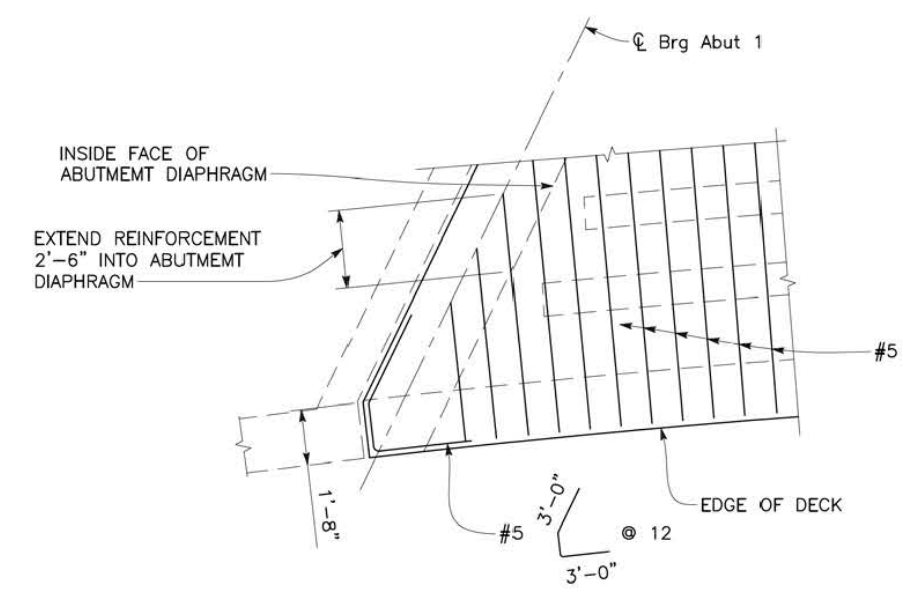


CAMBER DIAGRAM
No Scale
NOTE: CAMBER DIAGRAM DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK SETTLEMENT

LEGEND:
 Indicates bundled reinforcement



DETAIL 4
3/8" = 1'-0"



DETAIL 5
3/8" = 1'-0"

POST 95% PLANS - NOT FOR CONSTRUCTION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 12/18/19
 DATE:

DESIGNED: AP DRAWN: EC
 CHECKED: BH DATE: 12/18/19
 ROAD NUMBER: 032

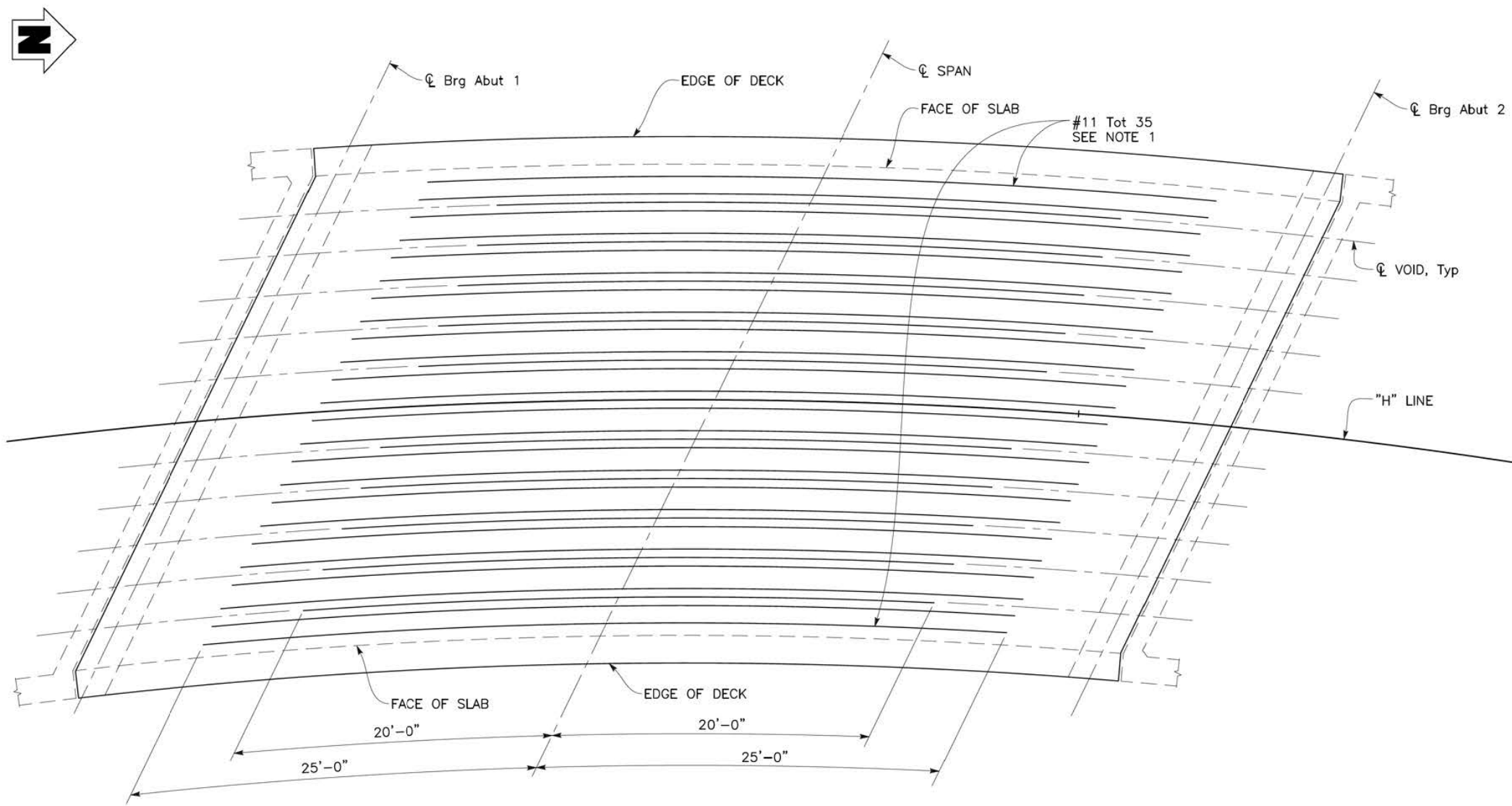


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 SLAB DETAILS NO. 1

SHEET
 S-13
 40 OF 44
 W.O. No. 77135

ORIGINAL SCALE IS IN INCHES
 Drawing name: U:\16034 - Hanks Exchange Road Bridge - El Dorado Co\400 Project Design Files\430 Bridges & Structures\Plans\HE-S-SD.dwg
 Layout Tab: SD2 Dec 18, 2019 - 4:22pm AHYde
 FOR REDUCED PLANS 2
 1
 0



ADDITIONAL BOTTOM REINFORCEMENT
 $\frac{1}{4}'' = 1'-0''$

NOTE:

- No splices allowed in additional bottom reinforcement.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 12/18/19

DESIGNED: AP DRAWN: EC
 CHECKED: BH DATE: 12/18/19
 ROAD NUMBER: 032



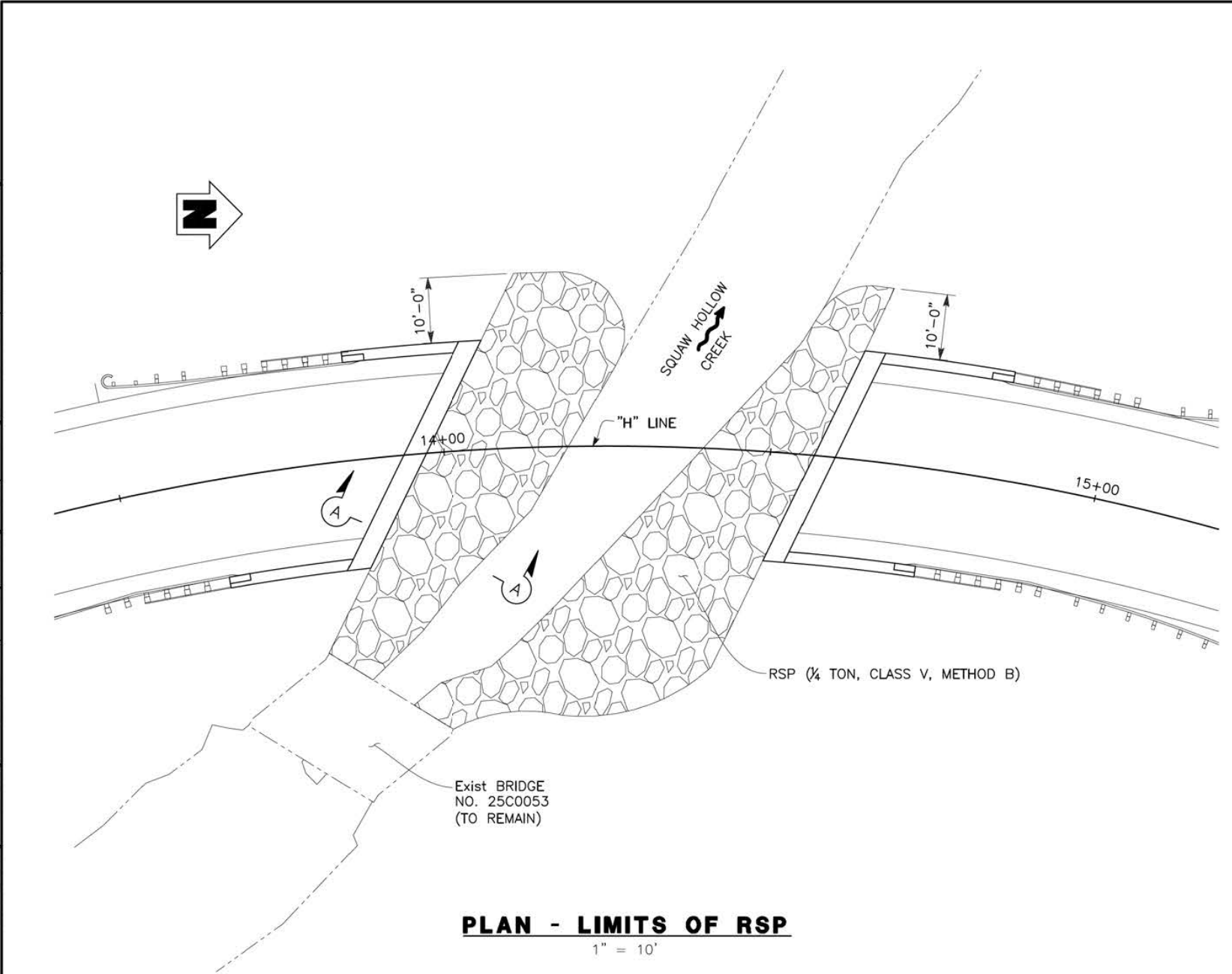
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 SLAB DETAILS NO. 2

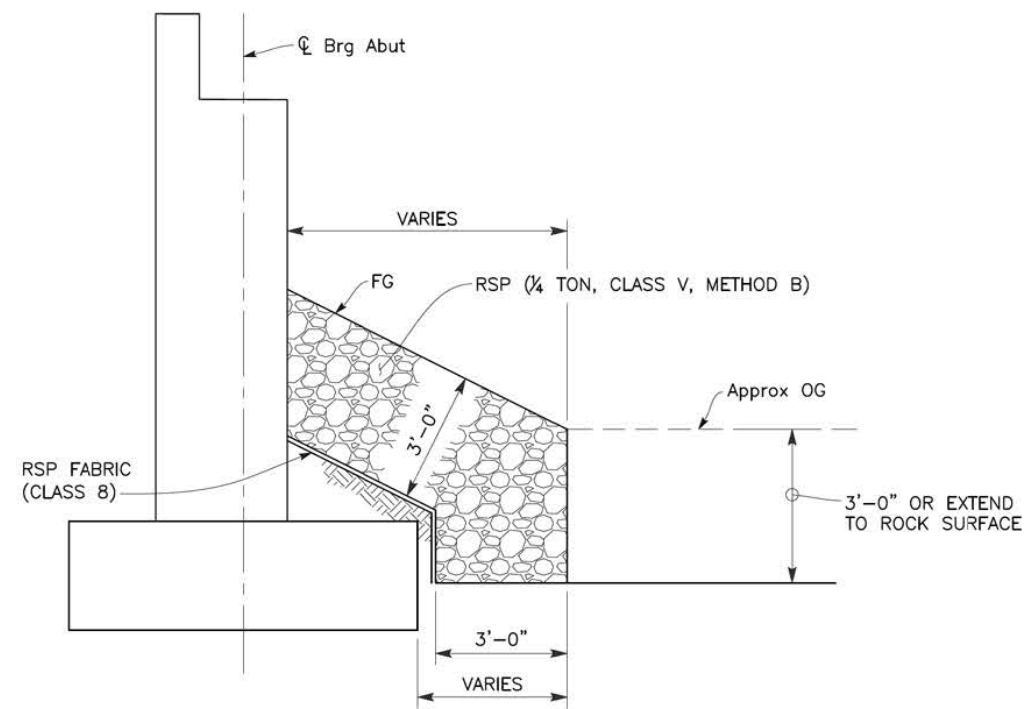
SHEET
 S-14
 41 OF 44
 W.O. No. 77135

POST 95% PLANS - NOT FOR CONSTRUCTION

ORIGINAL SCALE IS IN INCHES
 Layout Tab: RSP Dec 18, 2019 - 4:22pm AHyde
 Drawing name: U:\16034 - Hanks Exchange Road Bridge - El Dorado Co\400 Project Design Files\430 Bridges & Structures\Plans\HE-S-RSP.dwg



PLAN - LIMITS OF RSP
1" = 10'



SECTION A-A
1/2" = 1'-0"
ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR

POST 95% PLANS - NOT FOR CONSTRUCTION

FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
R.H.
 REGISTERED CIVIL ENGINEER
 DATE: 12/18/19

DESIGNED: AP DRAWN: EC
 CHECKED: BH DATE: 12/18/19
 ROAD NUMBER: 032

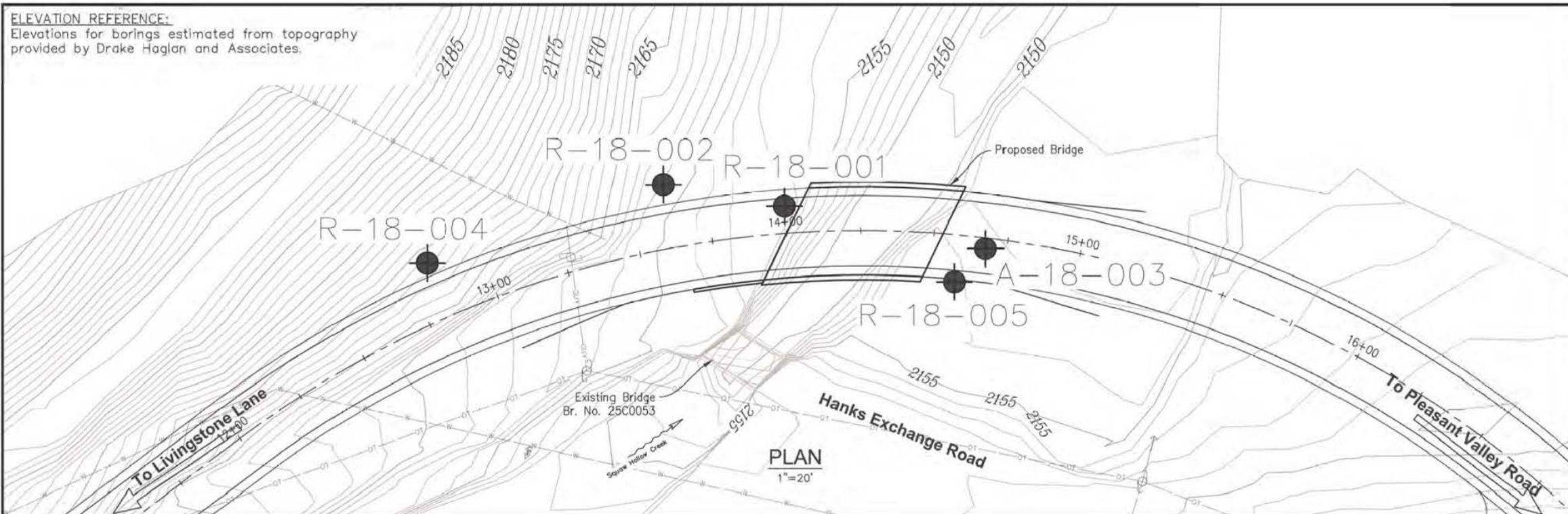


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HANKS EXCHANGE AT SQUAW HOLLOW
 CREEK BRIDGE REPLACEMENT
 ROCK SLOPE PROTECTION

SHEET S-15
 42 OF 44
 W.O. No. 77135

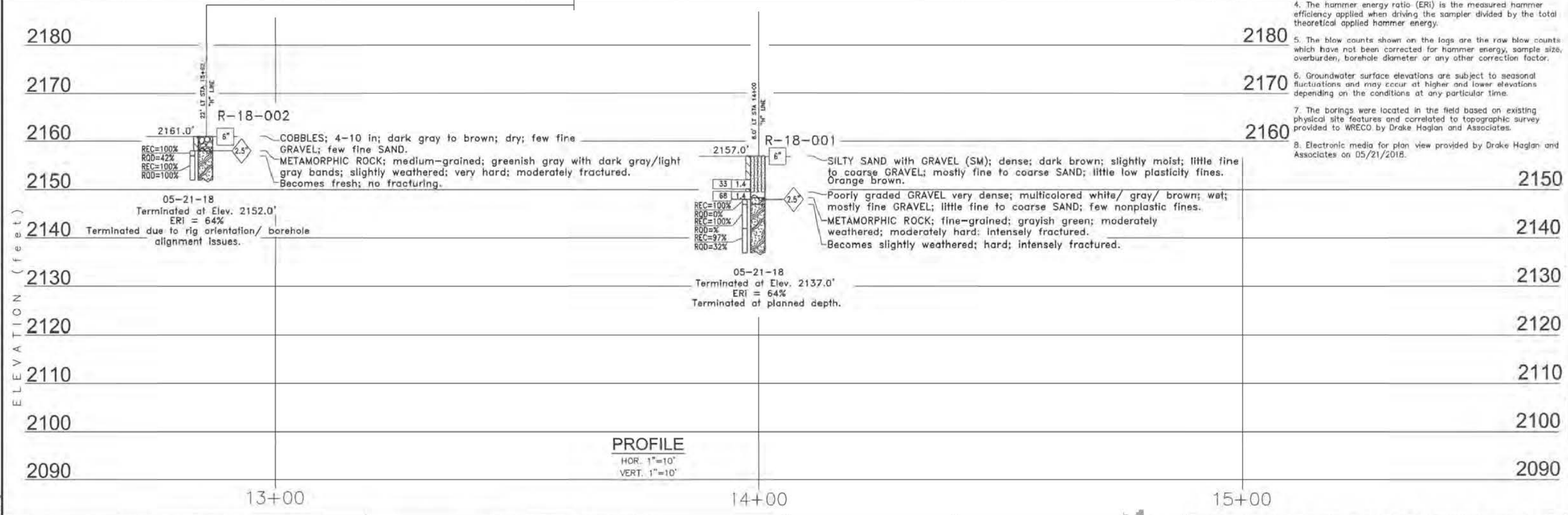
ELEVATION REFERENCE:
Elevations for borings estimated from topography provided by Drake Haglan and Associates.



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

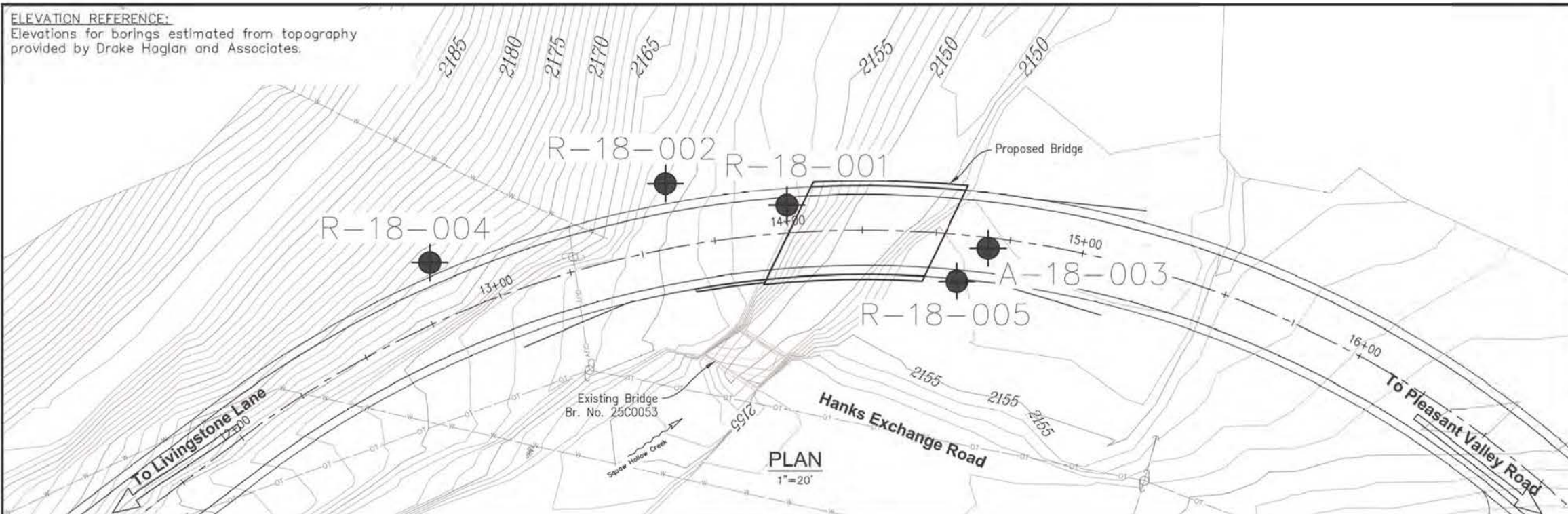
CERTIFIED ENGINEERING GEOLOGIST DATE 8-14-19
 PLANS APPROVAL DATE
 WRECO
 7807 LAGUNA BLVD., SUITE 400
 ELK GROVE, CA 95758 WRECO JOB NO.: P18049
 DRAKE HAGLAN AND ASSOCIATES, INC.
 11060 WHITE ROCK ROAD, SUITE 200
 RANCHO CORDOVA, CA 95670

- Notes:**
- Field classification of soils was performed in general accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010 Edition).
 - The 1.4 ID split barrel drive samplers was driven using a 140 pound auto-trip hammer free falling 30 inches in general conformance for performing the Modified California Split Barrel Tests (ASTM D3550).
 - The number of blows to drive a split barrel drive sampler the last 12 inches of an 18 inch drive was recorded as the blow count (N). Where less than 1 foot of penetration is achieved, the blow count shown is for that fraction of the "standard penetration resistance" interval actually penetrated. Where indicated by an asterisk (*) the number of blows shown is for only that fraction of the initial 6" "seating drive" interval penetration. Material characteristics shown in () were estimated.
 - The hammer energy ratio (ERI) is the measured hammer efficiency applied when driving the sampler divided by the total theoretical applied hammer energy.
 - The blow counts shown on the logs are the raw blow counts which have not been corrected for hammer energy, sample size, overburden, borehole diameter or any other correction factor.
 - Groundwater surface elevations are subject to seasonal fluctuations and may occur at higher and lower elevations depending on the conditions at any particular time.
 - The borings were located in the field based on existing physical site features and correlated to topographic survey provided to WRECO by Drake Haglan and Associates.
 - Electronic media for plan view provided by Drake Haglan and Associates on 05/21/2018.



ENGINEERING SERVICES		GEOTECHNICAL SERVICES		PREPARED FOR THE EL DORADO COUNTY COMMUNITY DEVELOPMENT AGENCY		D. A. KITZMANN PROJECT ENGINEER		BRIDGE NO. XXX-XXXX		HANKS EXCHANGE ROAD BRIDGE OVER SQUAW HOLLOW CREEK	
FUNCTIONAL SUPERVISOR D. A. KITZMANN		DRAWN BY: O. RAGABO		FIELD INVESTIGATION BY: D. LUKASHOV		DATE: 05-21-18		POST MILE XX.XX		LOG OF TEST BORINGS NO. 1	
CHECKED BY: F.P.T.										REVISION DATES (PRELIMINARY STAGE ONLY)	
43		44		43		44		43		44	

ELEVATION REFERENCE:
Elevations for borings estimated from topography provided by Drake Haglan and Associates.

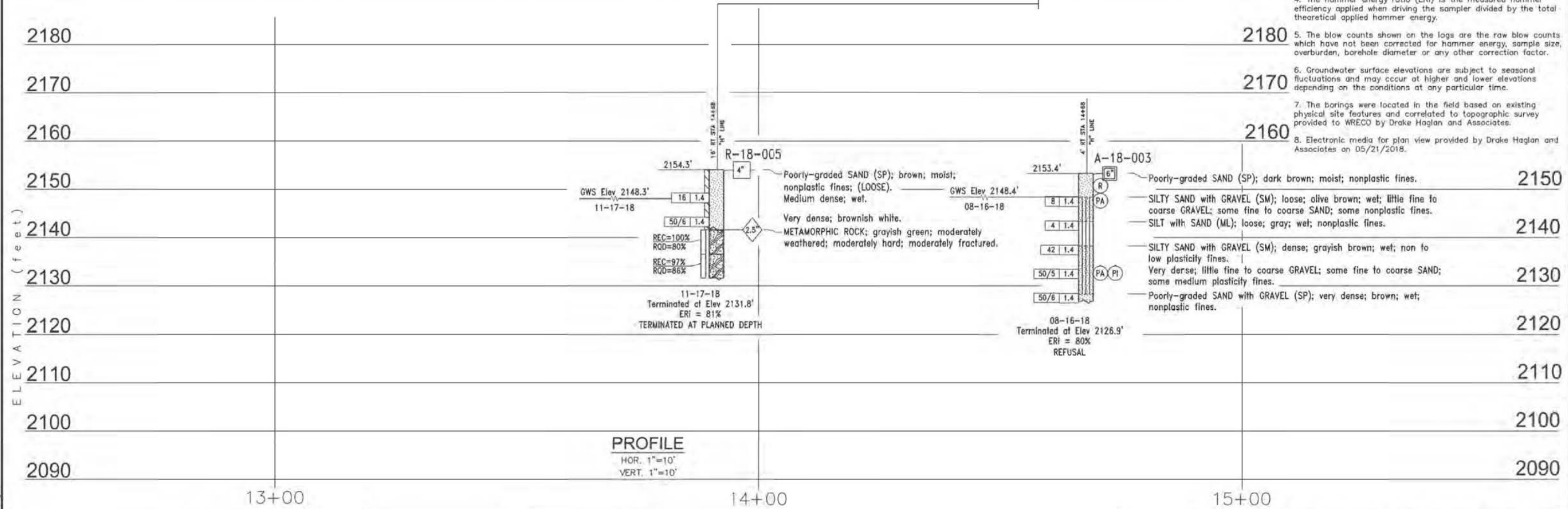


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	ED	XX			

CERTIFIED ENGINEERING GEOLOGIST DATE 3-14-19
 PLANS APPROVAL DATE
 WRECO 7807 LAGUNA BLVD., SUITE 400 ELK GROVE, CA 95758 WRECO JOB NO. P18049
 DRAKE HAGLAN AND ASSOCIATES, INC. 11060 WHITE ROCK ROAD, SUITE 200 RANCHO CORDOVA, CA 95670



- Notes:**
- Field classification of soils was performed in general accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010 Edition).
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ENGINEERING SERVICES		GEOTECHNICAL SERVICES		PREPARED FOR THE EL DORADO COUNTY COMMUNITY DEVELOPMENT AGENCY		D. A. KITZMANN PROJECT ENGINEER		BRIDGE NO. XXX-XXXX		HANKS EXCHANGE ROAD BRIDGE OVER SQUAW HOLLOW CREEK	
FUNCTIONAL SUPERVISOR D. A. KITZMANN		DRAWN BY: O. RAGABO		FIELD INVESTIGATION BY: O. ADAH		DATE: 11-17-18		POST MILE XX.XX		LOG OF TEST BORINGS NO. 2	
CHECKED BY: F.P.T.										REVISION DATES (PRELIMINARY STAGE ONLY)	
8102/82/11		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU XXXXXX EA XXXXXX		DISREGARD PRINT'S BEARING EARLIER REVISION DATES		SHEET 44		OF 44	