

COUNTY OF EL DORADO, CA DEPARTMENT OF TRANSPORTATION

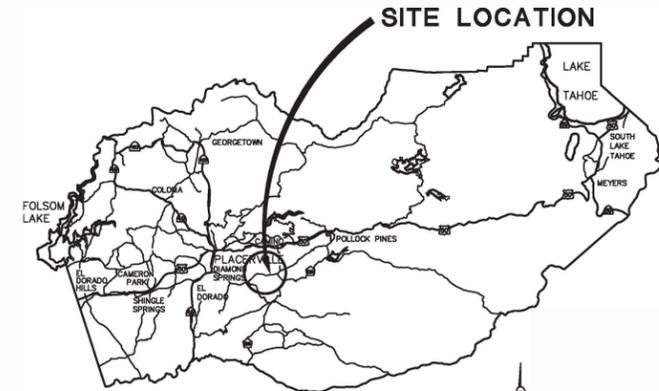
PROJECT PLANS FOR THE CONSTRUCTION OF NEWTOWN ROAD AT SOUTH FORK WEBER CREEK BRIDGE REPLACEMENT

IN THE COUNTY OF EL DORADO, DISTRICT 3
1.6 MILES NORTH OF PLEASANT VALLEY ROAD AND NEWTOWN ROAD

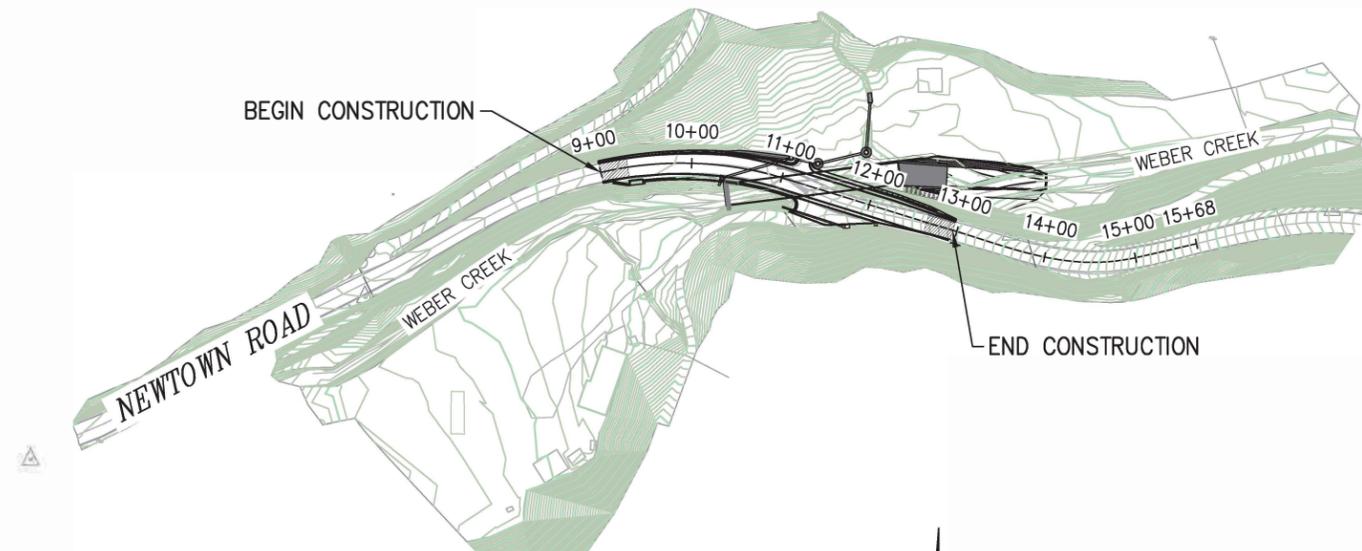
To be supplemented with Standard Plans and Specifications dated 2023,
of the California Department of Transportation, unless otherwise noted.

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VICINITY MAP
COUNTY OF EL DORADO



SITE PLAN
SCALE: 1"=100'



LOCATION MAP
NOT TO SCALE

BOARD OF SUPERVISORS

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

COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION

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

APPROVED BY:

DATE	DATE	DATE
JOHN HIDAHL CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS	RAFAEL MARTINEZ, DIRECTOR DEPARTMENT OF TRANSPORTATION	JOHN KAHLING P.E. NO. C062426 DEPUTY DIRECTOR OF ENGINEERING

CONTRACT NO. 5379 CIP NO. 77122

NEWTOWN ROAD AT SOUTH FORK WEBER CREEK BRIDGE REPLACEMENT

TITLE SHEET

SHEET 1 OF 31

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

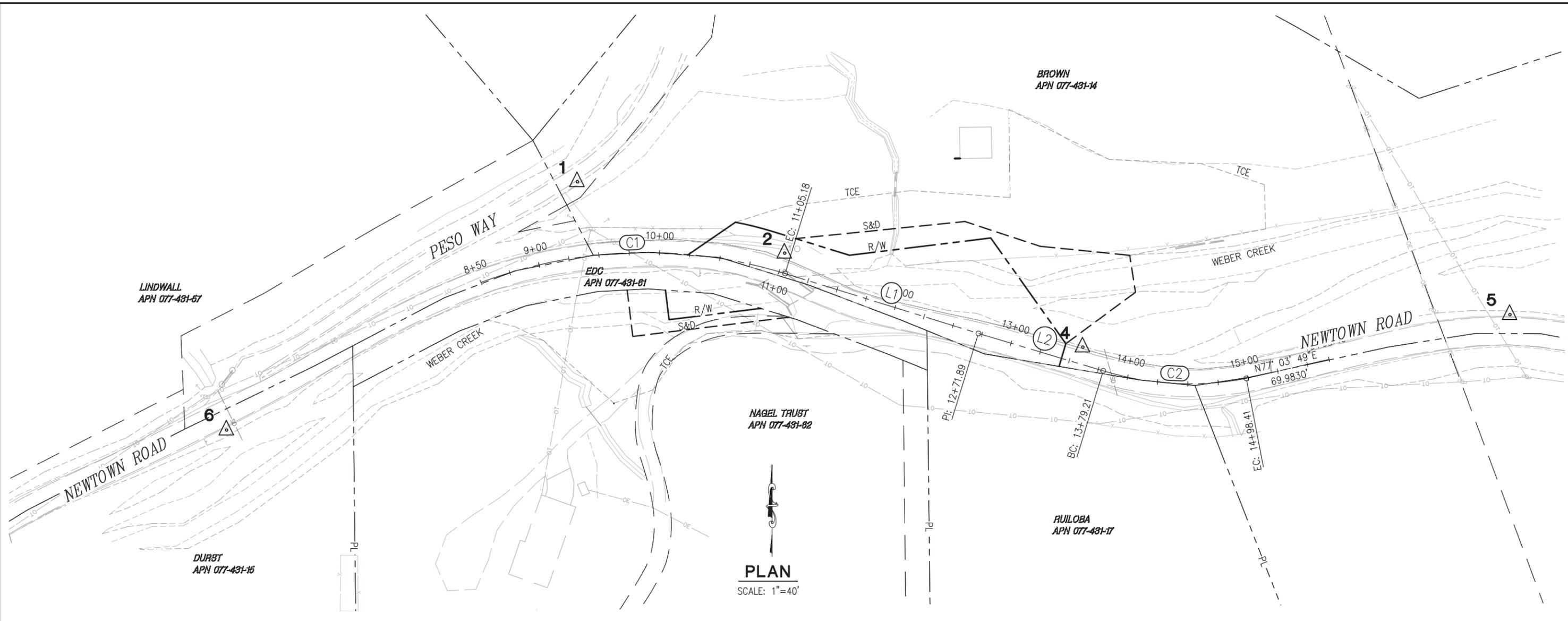
MARK	DATE	BY



NOT FOR CONSTRUCTION

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

ORIGINAL SCALE IS IN INCHES
 Drawing name: U:\18060 - Newtown Rd Br Replacement - El Dorado Co\400 Project Design Files\420 Roadway & Civil\Plans\CD-1.dwg Layout Tab: CD-1 Mar 28, 2024 - 3:51pm hdu
 FOR REDUCED PLANS
 REVISION



PLAN
SCALE: 1"=40'

CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2022273.5780	6937613.8530	2314.930	CP SPIKE
2	2022214.9070	6937784.6760	2285.620	CP SPIKE
4	2022137.7142	6938030.2852	2303.905	CP SPIKE
5	2022164.4203	6938382.1885	2340.804	CP SPIKE
6	2022069.5785	6937324.9578	2291.857	CP SPIKE
7	2021892.6758	6936958.8291	2284.923	CP SPIKE

'N' - LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
C1	255.18	388.11	N 88° 19' 39" E - 250.61	37' 40" 16"
L1	166.72		S 72° 50' 13" E	
L2	107.32		S 73° 20' 13" E	
C2	119.20	244.33	S 86° 59' 46" E - 118.02	27' 57" 10"

HORIZONTAL DATUM

BEARINGS, DISTANCES, STATIONING AND COORDINATES SHOWN ARE ON THE CALIFORNIA STATE COORDINATE SYSTEM, NAD 83 ZONE 2. DISTANCES SHOWN ARE GRID DISTANCES. DIVIDE DISTANCES SHOWN BY 0.99985645 TO OBTAIN GROUND DISTANCES.

VERTICAL DATUM

ELEVATIONS SHOWN HEREON ARE REFERENCED TO NGVD 29 FROM GPS OBSERVATIONS

△ DENOTES TARGET LOCATION AND ELEVATION

NUMBER	DATE	DESCRIPTION	BY

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: _____

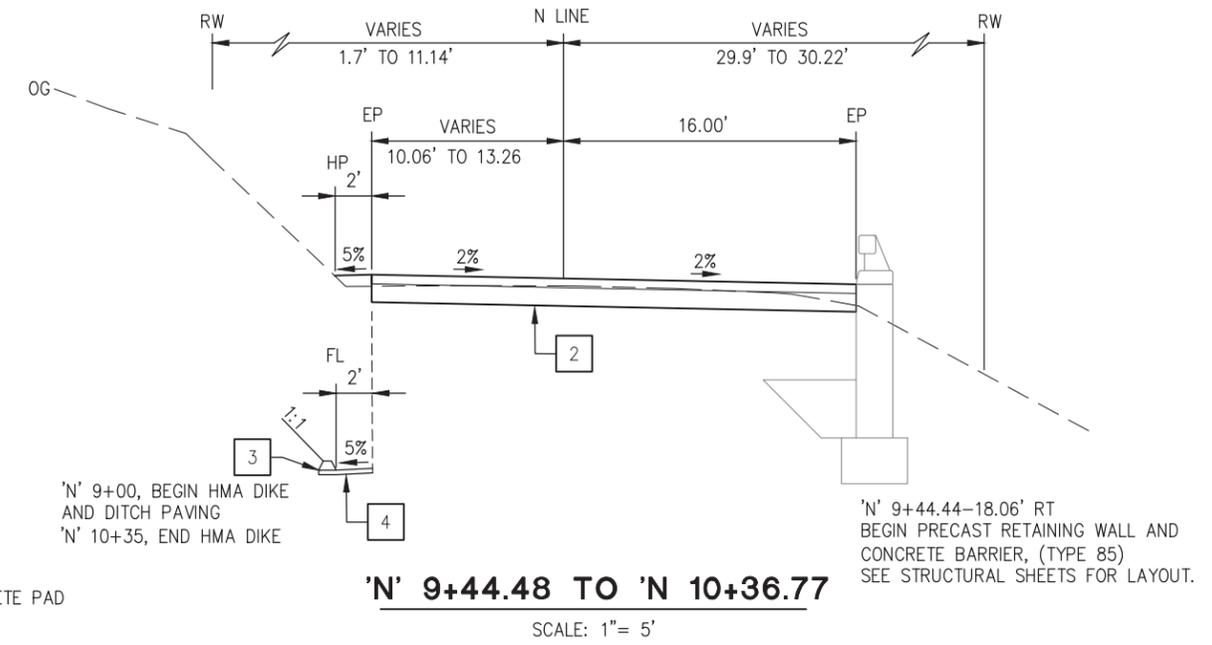
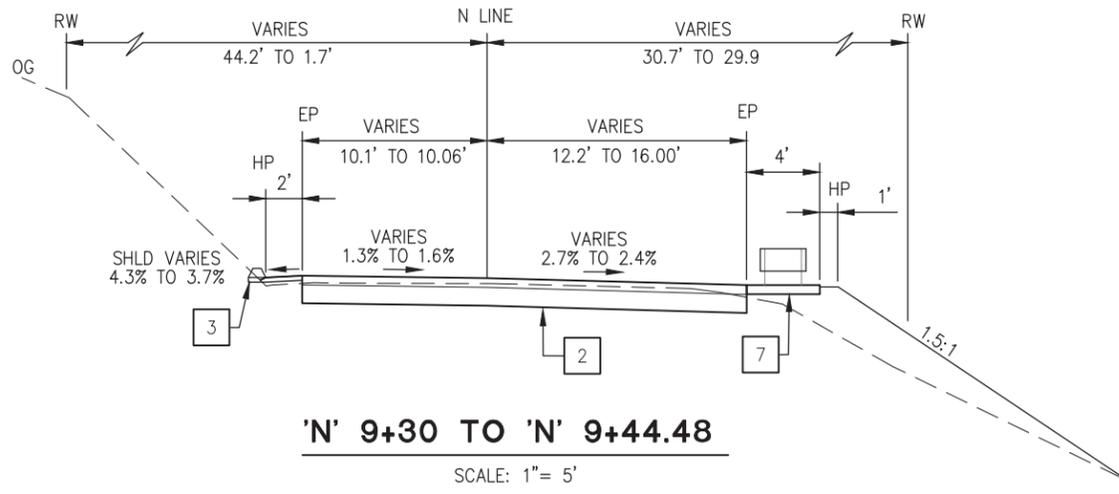
DESIGNED: ZO
DRAWN: RR
CHECKED: CG
DATE: 08/26/21
ROAD NUMBER: 84

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

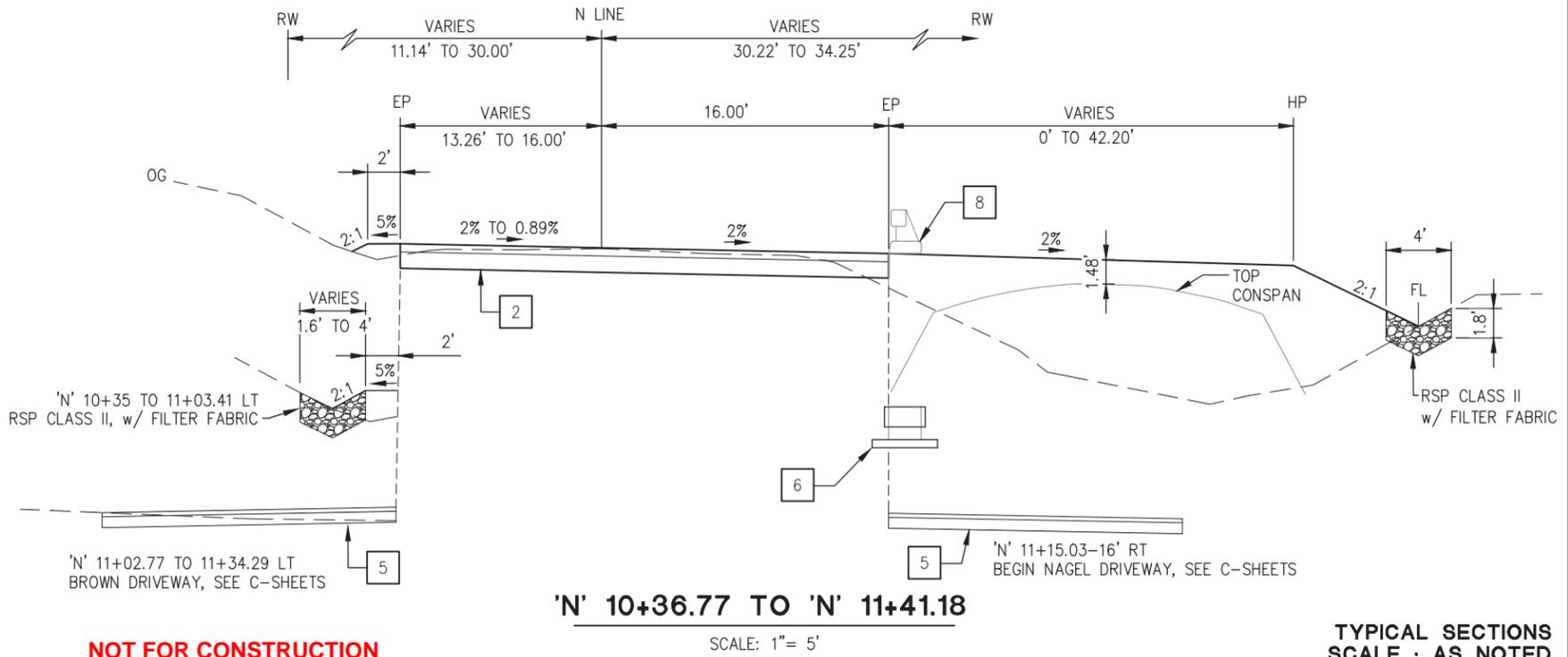
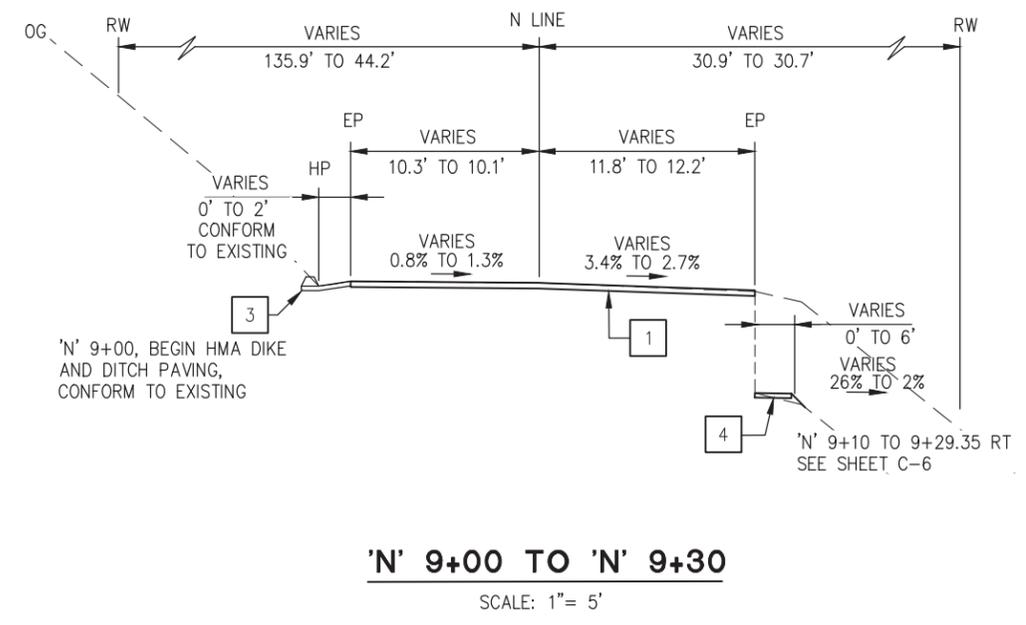
SHEET
CD-1
02 OF 31
W.O. No. **77122**

ORIGINAL SCALE IS IN INCHES
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 REVISION
 NUMBER DATE DESCRIPTION BY



CONSTRUCTION NOTES:

- 1 — GRIND AND CONFORM, 0.2' MIN
- 2 — 0.5' HMA (TYPE A), 1.0' AB (CLASS 2)
- 3 — 'N' 9+00 BEGIN HMA DIKE & PAVED SHOULDER
- 4 — 0.25 HMA (TYPE A)
- 5 — 0.25 HMA (TYPE A), 0.67' AB (CLASS 2)
- 6 — TAU-M CRASH CUSHION w/ 0.5' THICK CONCRETE PAD 'N' 10+38.55' TO 10+53.63. (SEE SHEET C-1)
- 7 — TAU-M CRASH CUSHION w/ 0.5' THICK CONCRETE PAD 'N' 9+29.40 TO 9+44.48. (SEE SHEET C-6)
- 8 — CANTILEVER TYPE 85 BARRIER 'N' 10+36.77 TO 10+38.55 (SEE STRUCTURE SHEET ST-6)



NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: RR
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 08/26/21
DATE:	ROAD NUMBER: 84	



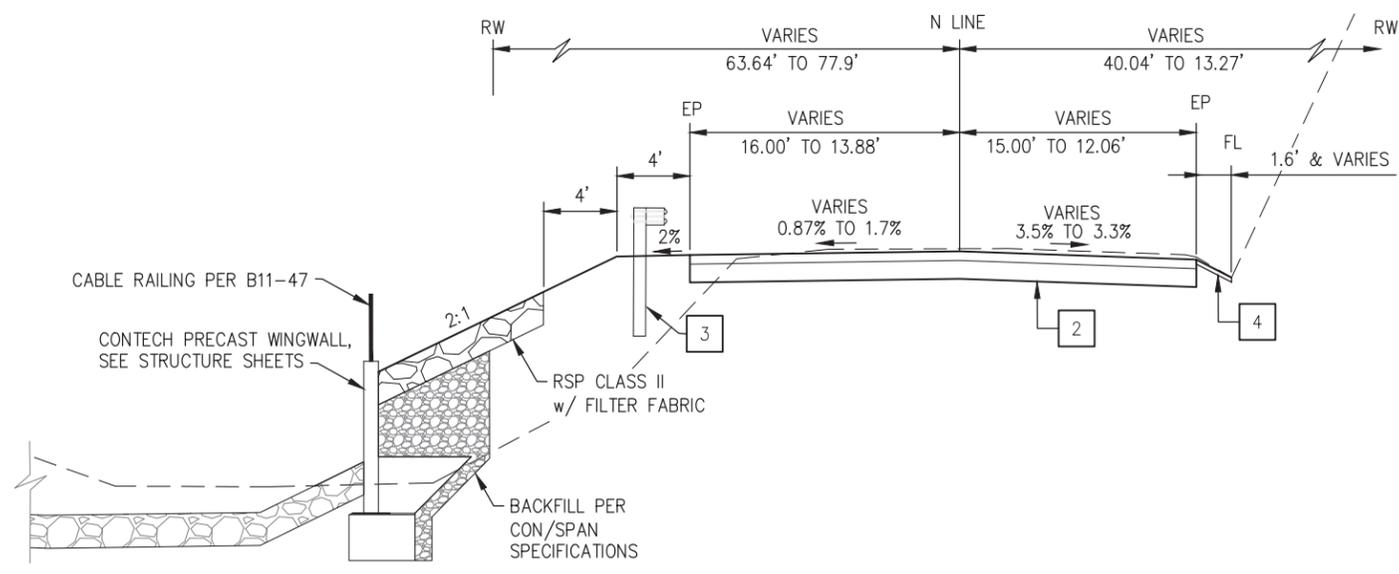
**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT**

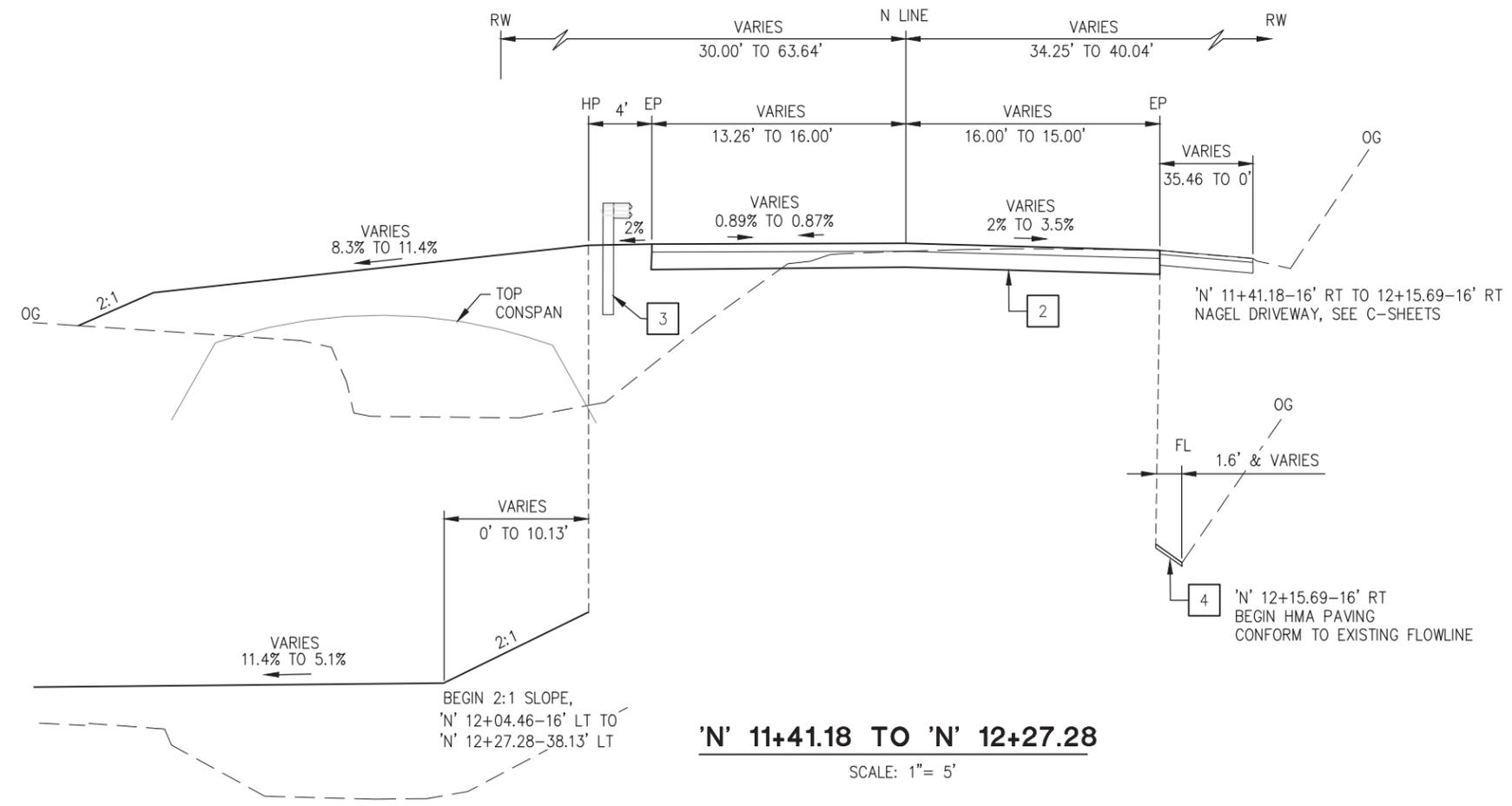
**TYPICAL SECTIONS
SCALE : AS NOTED**

SHEET	X-1
03 OF 31	
W.O. No.	77122

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'N' 12+27.28 TO 'N' 12+65.55
 SCALE: 1" = 5'



'N' 11+41.18 TO 'N' 12+27.28
 SCALE: 1" = 5'

CONSTRUCTION NOTES:

- 1 — GRIND AND CONFORM, 0.2' MIN
- 2 — 0.5' HMA (TYPE A), 1.0' AB (CLASS 2)
- 3 — MGS, MAXTENSION TL-2, TANGENT, REDIRECTIVE NON-GATING, GUARDRAIL TERMINAL (BEGIN 'N' 12+05.15-17.00' LT END 12+66.88-15.27' LT, MEASURED TO FACE OF RAIL) SEE SHEET C-1
- 4 — 0.25' HMA (TYPE A), CONFORM TO EXISTING FL

NOT FOR CONSTRUCTION

**TYPICAL SECTIONS
 SCALE : AS NOTED**

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO RR
 CHECKED: CG
 DATE: 08/26/21
 ROAD NUMBER: 84

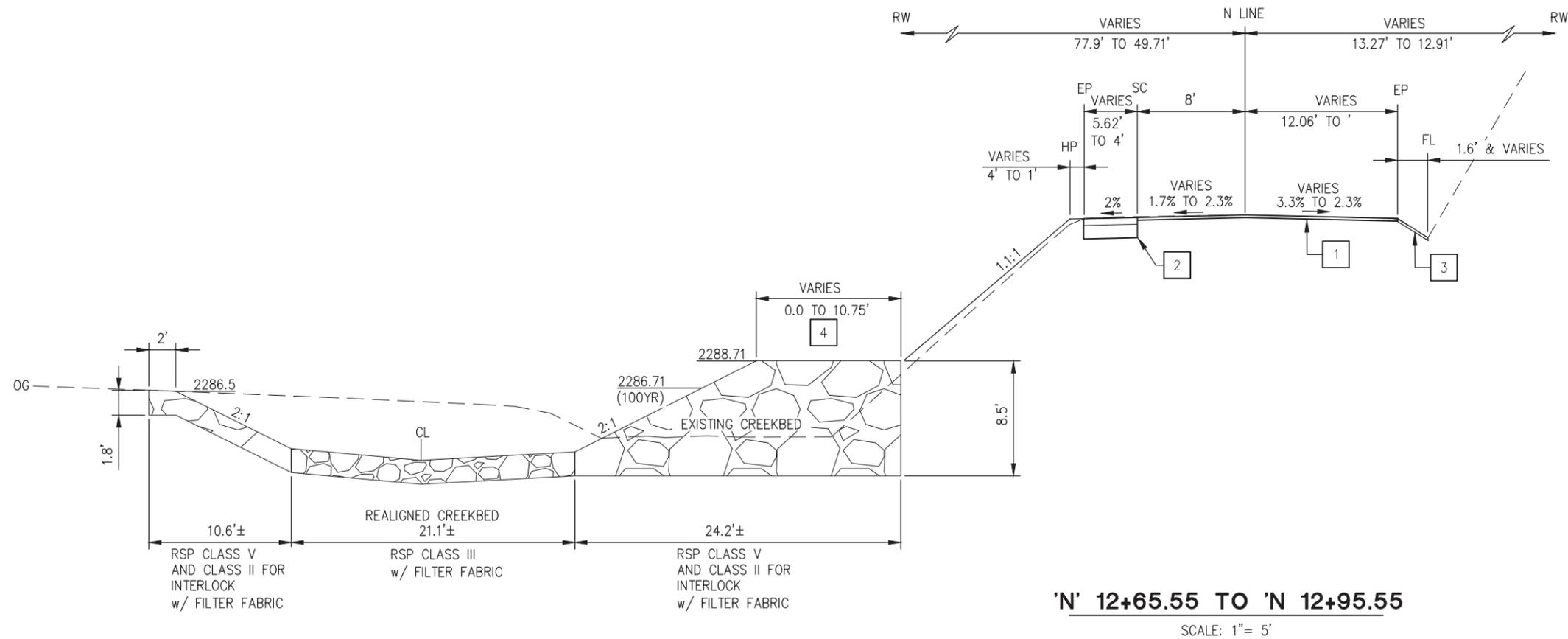


**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

**NEWTOWN ROAD AT
 SOUTH FORK WEBER CREEK
 BRIDGE REPLACEMENT**

SHEET
X-2
 04 OF 31
 W.O. No. 77122

ORIGINAL SCALE IS IN INCHES
 Drawing name: U:\18060 - Newtown Rd Br Rplacemnt - El Dorado Co\400 Project Design Files\420 Roadway & Civil\Plans\X-SHEETS.dwg Layout Tab: X-3 Mar 28, 2024 - 3:52pm hdu



- CONSTRUCTION NOTES:**
- 1 — GRIND AND CONFORM, 0.2' MIN
 - 2 — 0.5' HMA (TYPE A), 1.0' AB (CLASS 2)
 - 3 — 0.25' HMA (TYPE A), CONFORM TO EXISTING FL
 - 4 — RSP BENCH BEGINS AT WINGWALL

FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED: ZO

DRAWN: RR

CHECKED: CG

DATE: 08/26/21

ROAD NUMBER: 84



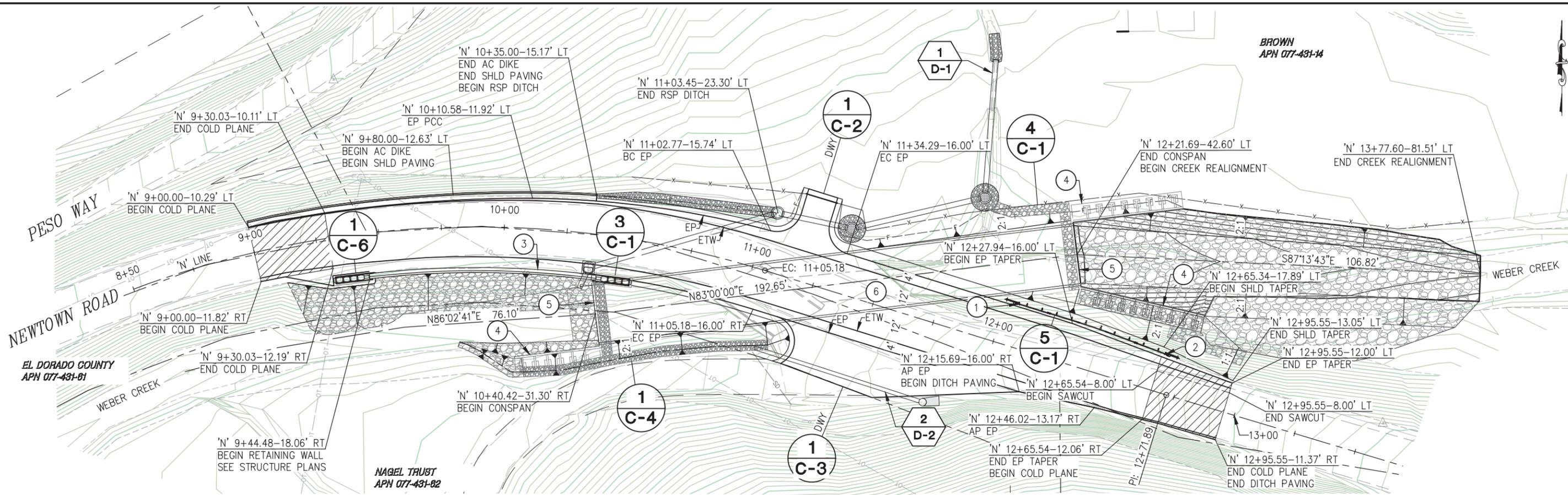
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT
 SOUTH FORK WEBER CREEK
 BRIDGE REPLACEMENT

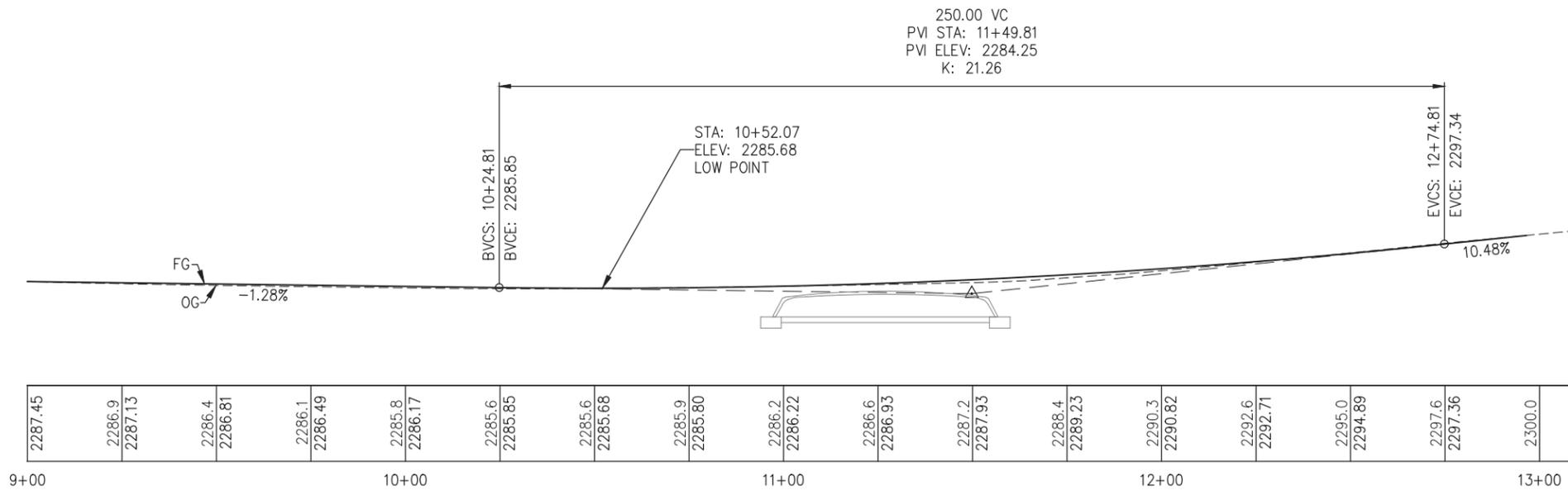
SHEET
X-3
 05 OF 31
 W.O. No. 77122

TYPICAL SECTIONS
 SCALE : AS NOTED

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 REVISION



PLAN - NEWTOWN ROAD
SCALE: 1"=20'



PROFILE - NEWTOWN ROAD
SCALE: 1"=20'

- CONSTRUCTION NOTES:**
- ① — 'N' 12+05.15-17.00' LT, FACE OF RAIL
BEGIN MAXTENSION TL-2 TERMINAL SYSTEM
 - ② — 'N' 12+66.88-15.27' LT, FACE OF RAIL
END MAXTENSION TL-2 TERMINAL SYSTEM
 - ③ — RETAINING WALL TYPE 5 (CASE 1) w/STEM HAUNCH
DETAIL PER B3-4A. SEE STRUCTURE SHEETS
 - ④ — CONTECH PRECAST WINGWALL, SEE STRUCTURE SHEETS
 - ⑤ — CONTECH PRECAST HEADWALL, SEE STRUCTURE SHEETS
 - ⑥ — CONTECH 0-300 SERIES (0323) CONSPAN, SEE STRUCTURE SHEETS

ROCK SLOPE PROTECTION

NOTES:
 STATION/OFFSETS PER 'N' ALIGNMENT
 SEE TREE REMOVAL PLAN, TR-SHEET
 SEE FENCE RELOCATION PLAN, C-7 SHEET

REVISION	NUMBER	DATE	DESCRIPTION	BY

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

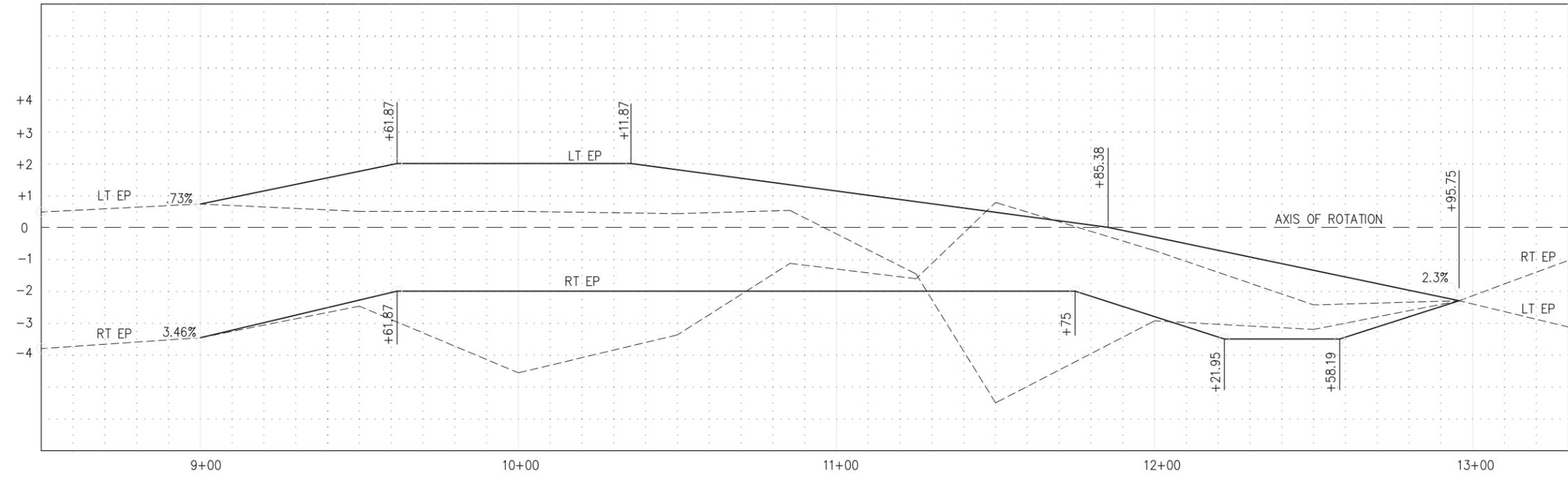
DESIGNED: ZO
 DRAWN: RR
 CHECKED: CG
 DATE: 08/26/21
 ROAD NUMBER: 84

**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

**NEWTOWN ROAD AT
 SOUTH FORK WEBER CREEK
 BRIDGE REPLACEMENT**

SHEET
L-1
 06 OF 31
 W.O. No. 77122

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



SUPERELEVATION
SCALE: 1"=5'H, 1"=2'V

NOT FOR CONSTRUCTION

SUPERELEVATION
SCALE : AS NOTED

NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER
DATE:

DESIGNED: ZO RR
DRAWN: RR
CHECKED: CG DATE: 08/26/21
ROAD NUMBER: 84

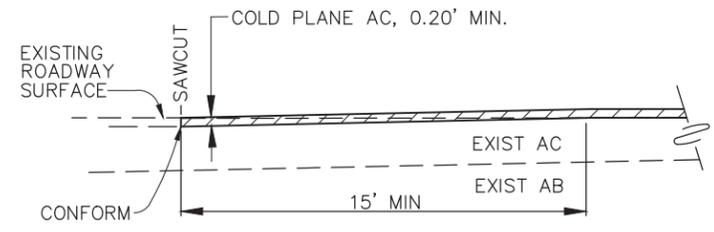


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

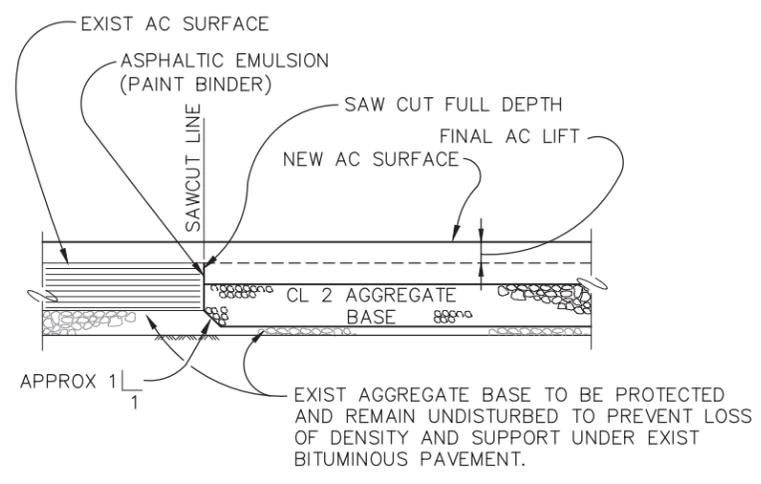
**NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT**

SHEET
SE-1
07 OF 31
W.O. No. **77122**

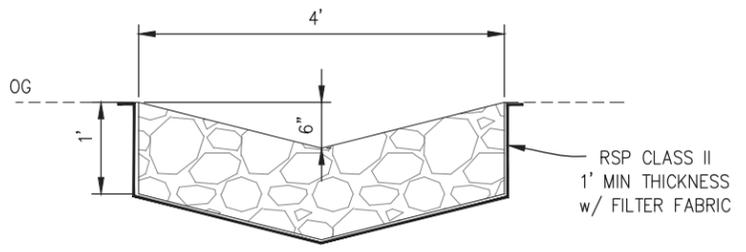
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 FOR REDUCED PLANS
 REVISION



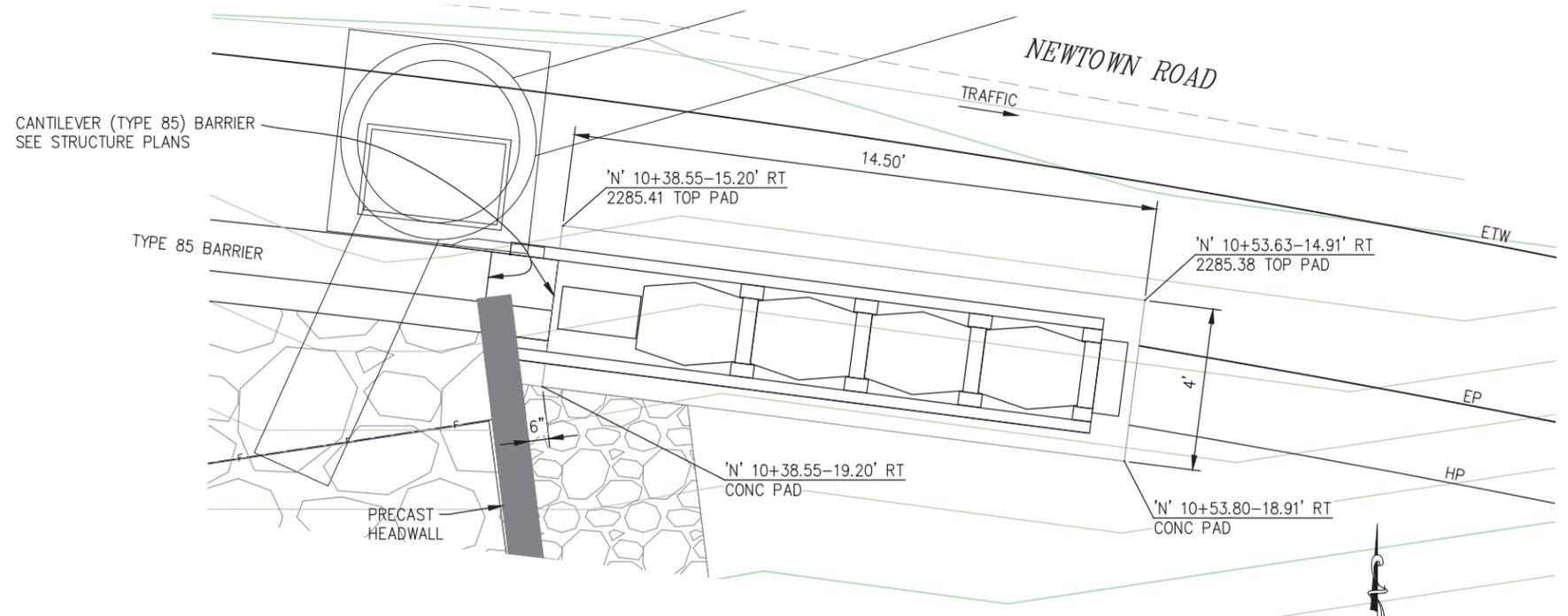
1 COLD PLANE CONFORM DETAIL
N.T.S.



2 ASPHALT PAVEMENT JOINT DETAIL
N.T.S.

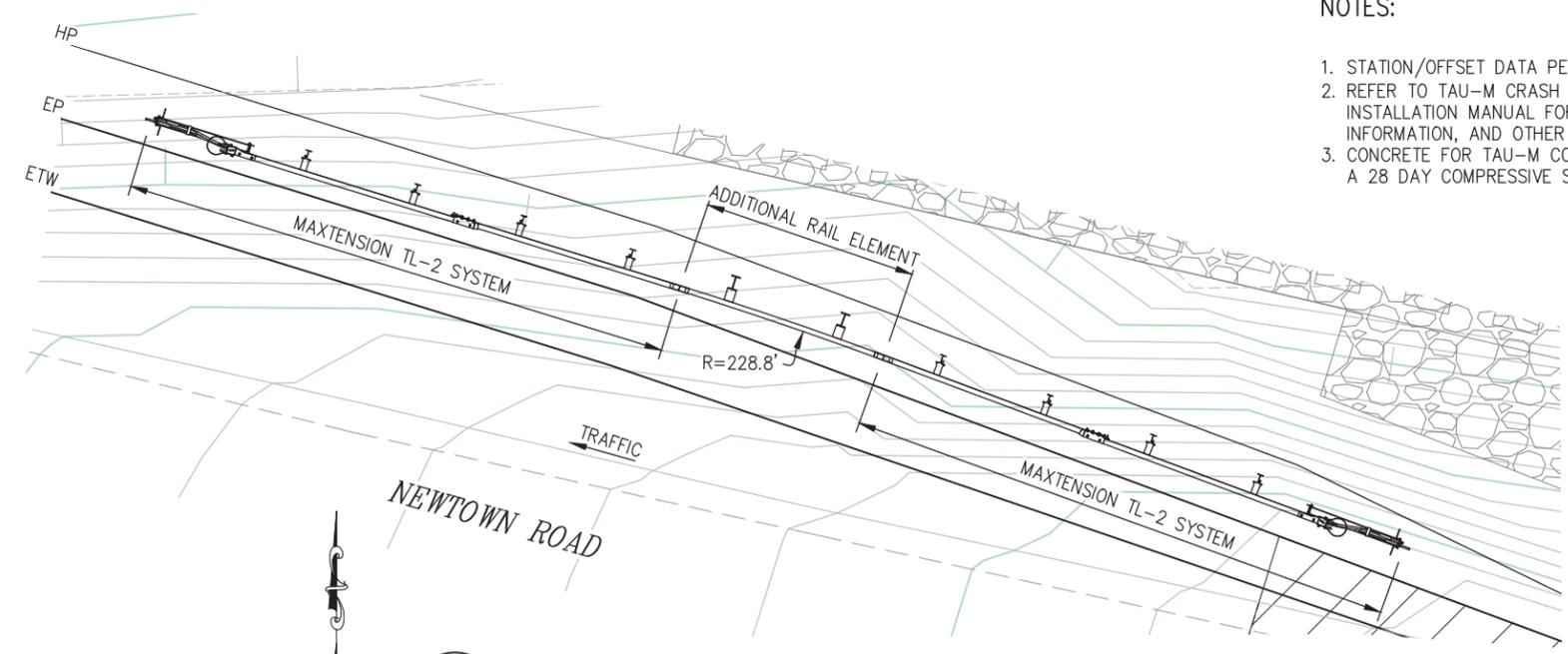


4 RSP DRAINAGE DITCH
N.T.S.



3 PLAN - TAU-M CRASH CUSHION FOUNDATION
N.T.S.

- NOTES:
1. STATION/OFFSET DATA PER 'N' LINE.
 2. REFER TO TAU-M CRASH CUSHION'S MANUFACTURER'S INSTALLATION MANUAL FOR REINFORCEMENT SIZE AND SPACING INFORMATION, AND OTHER NECESSARY INFORMATION.
 3. CONCRETE FOR TAU-M CONCRETE PAD FOUNDATION MUST OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.



5 PLAN - MAXTENSION TL-2 GUARDRAIL TERMINAL
N.T.S.

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: RR
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 08/26/21
DATE:	ROAD NUMBER: 84	



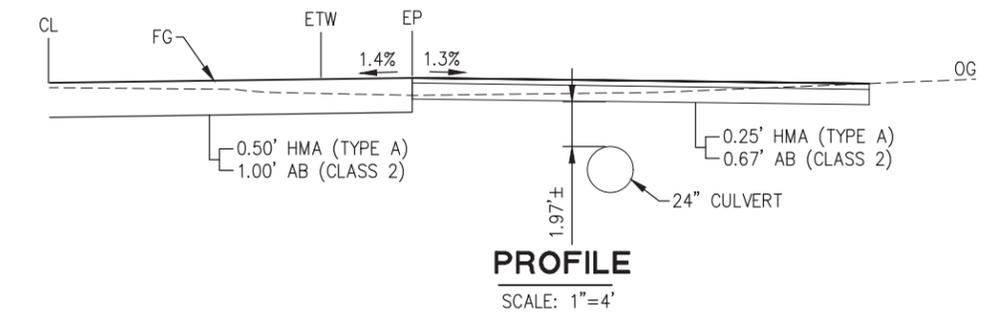
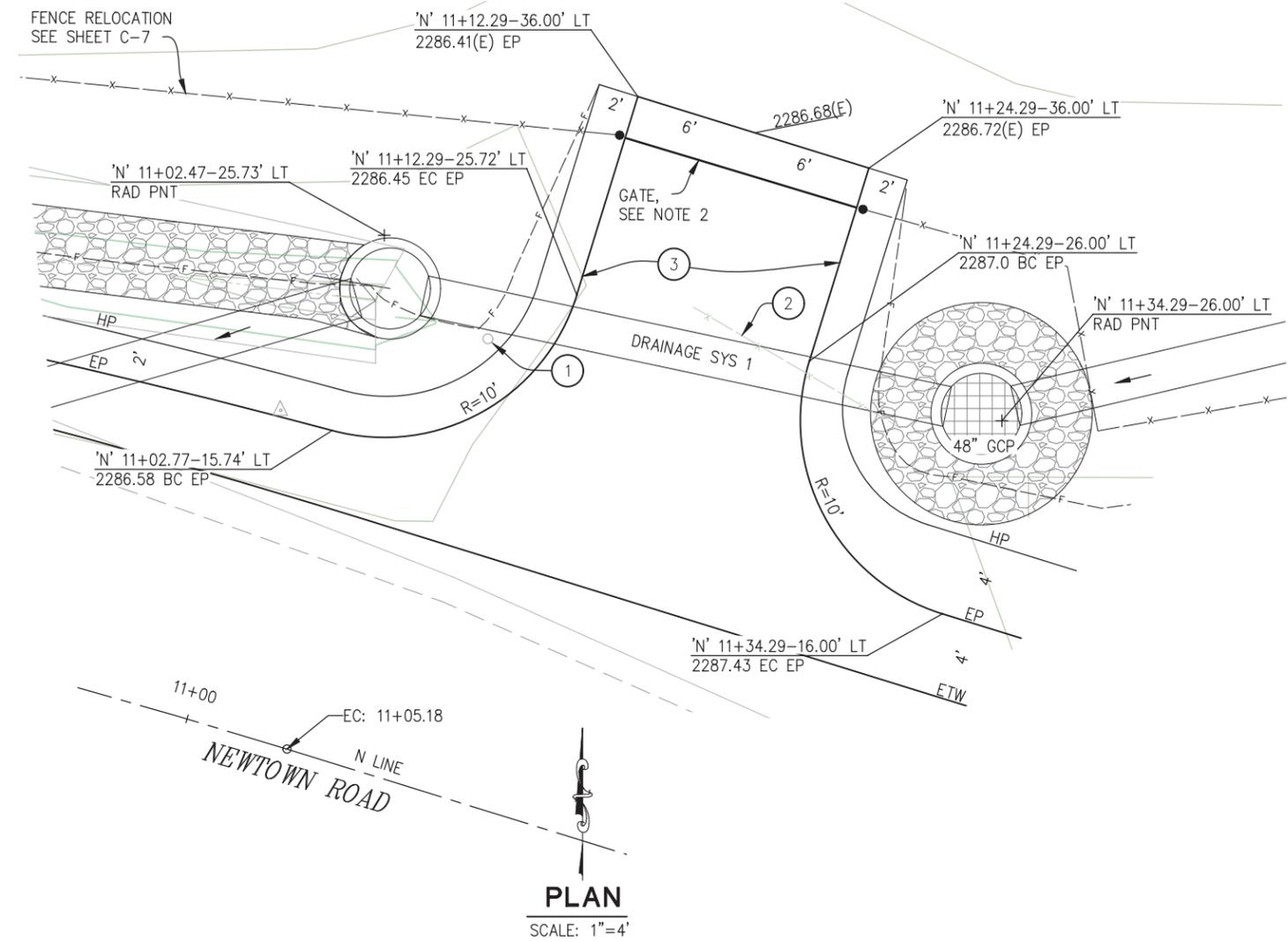
**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT**

SHEET	C-1
08 OF 31	
W.O. No.	77122

ORIGINAL SCALE IS IN INCHES
 Drawing name: U:\18060 - Newtown Rd Br. Replacement - El Dorado Co.\400 Project Design Files\420 Roadway & Civil\Plans\C-SHEETS.dwg Layout Tab: C-2 Mar 28, 2024 - 3:52pm hdu
 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY

BROWN
APN 077-431-014



NOTES:

1. STATION/OFFSET DATA PER N LINE.
2. PROPOSED GATE SHALL MATCH EXISTING GATE IN THE TYPE AND CONSTRUCTION. EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ① EXISTING MAILBOXES(2) TO BE RELOCATED DURING DRIVEWAY CONSTRUCTION AND REINSTALLED AT THE COMPLETION OF WORK. RELOCAITON TO BE COORDINATED WITH U.S.P.S.
- ② EXISTING GATE TO BE REMOVED
- ③ 0.25' HMA (TYPE A)
0.67' AB (CLASS 2)

NOT FOR CONSTRUCTION

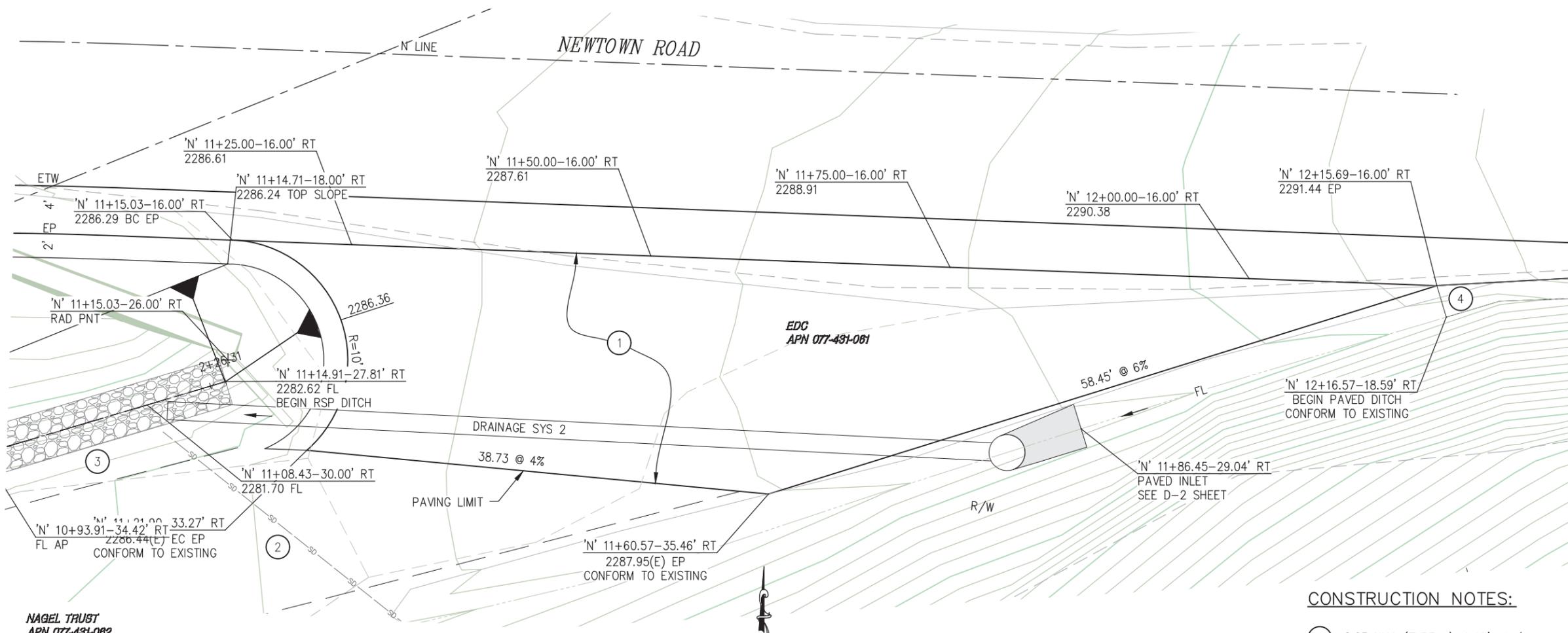
**CONSTRUCTION DETAILS
BROWN DRIVEWAY
SCALE : AS NOTED**

PREPARED UNDER THE SUPERVISION OF : REGISTERED CIVIL ENGINEER DATE:	DESIGNED: ZO CHECKED: CG ROAD NUMBER: 84	DRAWN: RR DATE: 08/26/21	 <p style="text-align: center;">COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION</p>
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**NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT**

SHEET
C-2
 09 OF 31
 W.O. No. 77122

ORIGINAL SCALE IS IN INCHES
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 REVISION
 NUMBER DATE DESCRIPTION BY



PLAN
SCALE: 1"=5'

- CONSTRUCTION NOTES:**
- ① 0.25 HMA (TYPE A), 0.67' AB (CLASS 2)
 - ② EXISTING CULVERT TO REMAIN IN PLACE
 - ③ RSP LINED DRAINAGE DITCH, SEE C SHEET
 - ④ 0.25' HMA PAVED DITCH, CONFORM TO EXISTING

NOTES:

1. STATION/OFFSET DATA PER N LINE.

NOT FOR CONSTRUCTION

CONSTRUCTION DETAILS
NAGEL DRIVEWAY
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: RR
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 08/26/21
DATE:	ROAD NUMBER: 84	

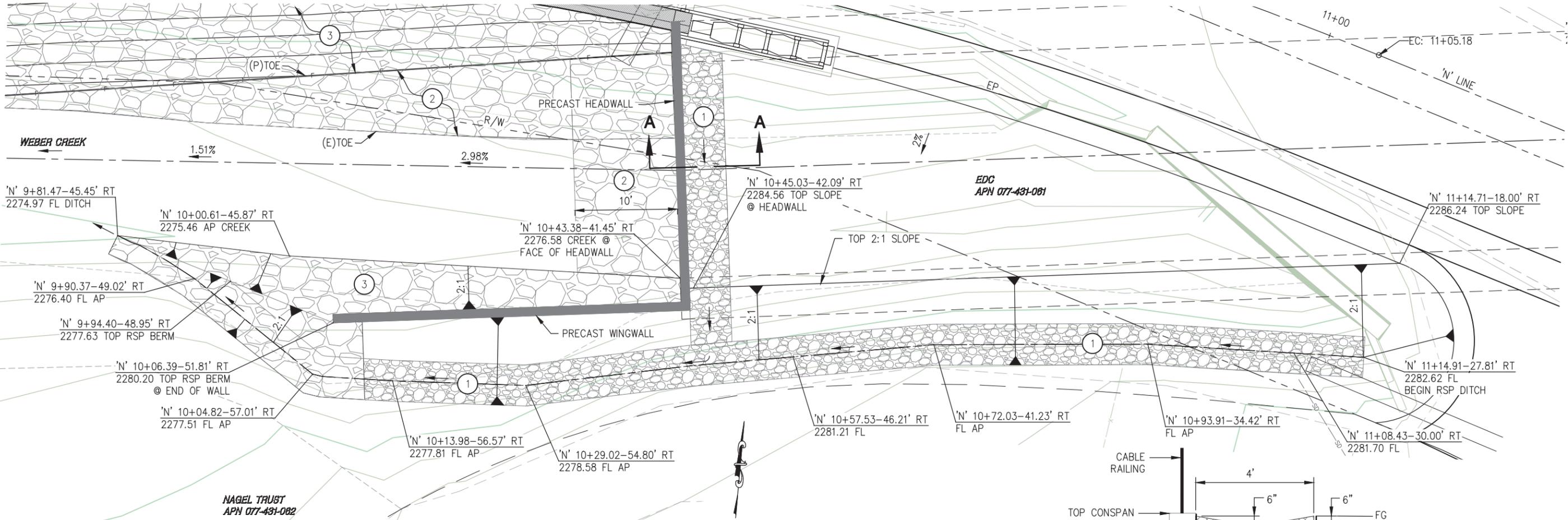


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

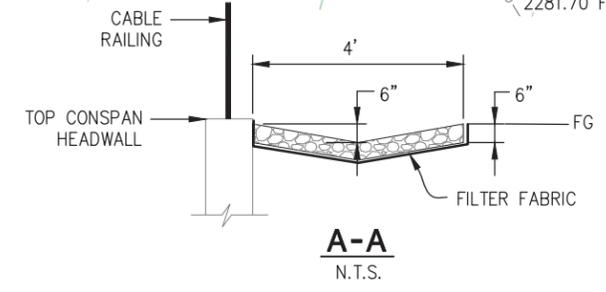
NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

SHEET	C-3
10 OF 31	
W.O. No.	77122

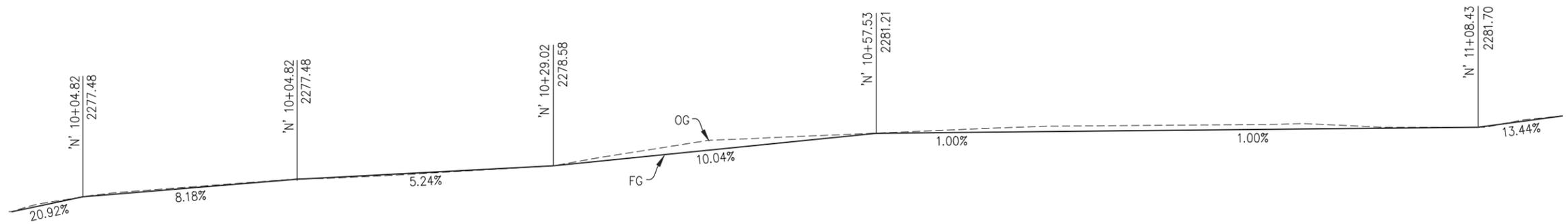
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 FOR REDUCED PLANS
 REVISION



1 PLAN
SCALE: 1"=5'



A-A
N.T.S.



PROFILE
FLOWLINE RSP DITCH
SCALE: 1"=5'

CONSTRUCTION NOTES:

- ① - RSP CLASS II, (METHOD B) w/ FILTER FABRIC
- ② - RSP CLASS III, (METHOD B) w/ FILTER FABRIC
- ③ - RSP CLASS V, (METHOD B) w/ CLASS II FOR INTERLOCK (METHOD B) w/ FILTER FABRIC

NOTES:

1. STATION/OFFSET DATA PER N LINE.
2. ELEVATIONS SHOWN ARE TO THE TOP OF ROCK SLOPE PROTECTION.

CONSTRUCTION DETAILS
ROCK SLOPE & CREEK PROTECTION
SCALE : AS NOTED

NOT FOR CONSTRUCTION

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE:

DESIGNED: CG
DRAWN: RR
CHECKED: CG
DATE: 08/26/21
ROAD NUMBER: 84

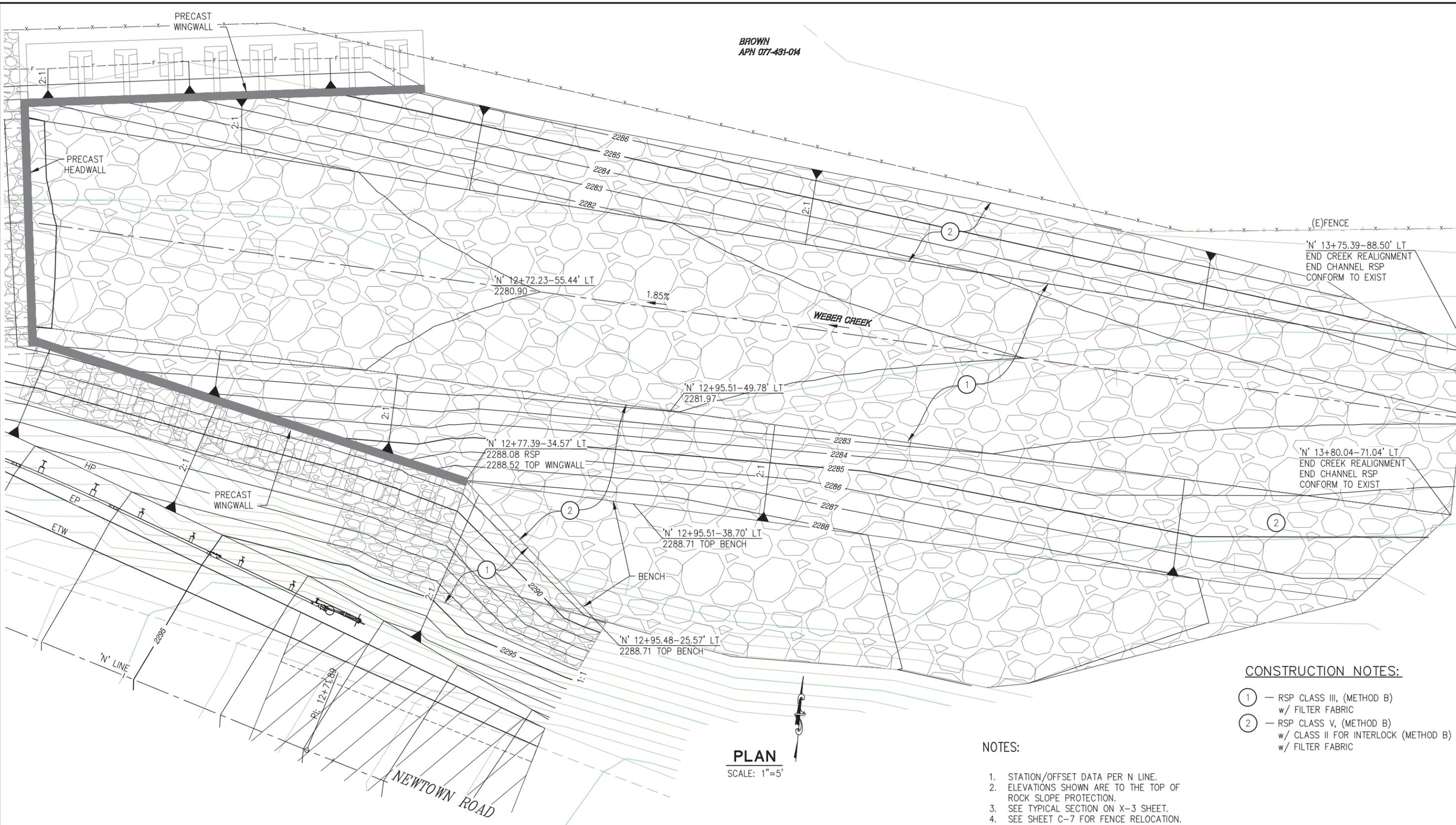


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

SHEET
C-4
11 OF 31
W.O. No. **77122**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 REVISION



BROWN
APN 077-431-014

CONSTRUCTION NOTES:

- ① - RSP CLASS III, (METHOD B)
w/ FILTER FABRIC
- ② - RSP CLASS V, (METHOD B)
w/ CLASS II FOR INTERLOCK (METHOD B)
w/ FILTER FABRIC

NOTES:

1. STATION/OFFSET DATA PER N LINE.
2. ELEVATIONS SHOWN ARE TO THE TOP OF ROCK SLOPE PROTECTION.
3. SEE TYPICAL SECTION ON X-3 SHEET.
4. SEE SHEET C-7 FOR FENCE RELOCATION.

PLAN
SCALE: 1"=5'

NOT FOR CONSTRUCTION

CONSTRUCTION DETAILS
ROCK SLOPE & CREEK PROTECTION
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: CG	DRAWN: RR
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 08/26/21
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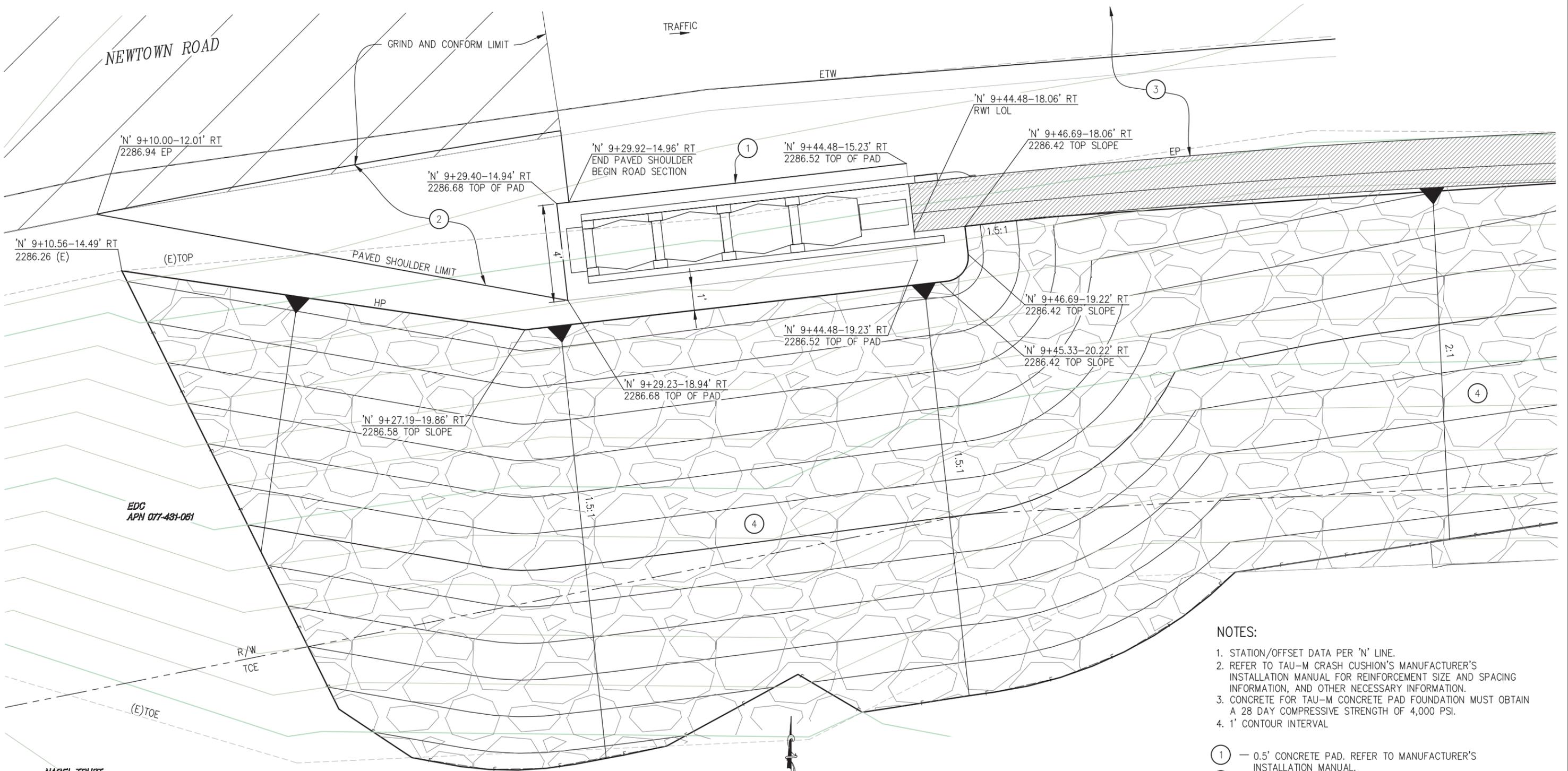


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT
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BRIDGE REPLACEMENT

SHEET	C-5
12 OF 31	
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- NOTES:**
1. STATION/OFFSET DATA PER 'N' LINE.
 2. REFER TO TAU-M CRASH CUSHION'S MANUFACTURER'S INSTALLATION MANUAL FOR REINFORCEMENT SIZE AND SPACING INFORMATION, AND OTHER NECESSARY INFORMATION.
 3. CONCRETE FOR TAU-M CONCRETE PAD FOUNDATION MUST OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
 4. 1' CONTOUR INTERVAL
- ① - 0.5' CONCRETE PAD. REFER TO MANUFACTURER'S INSTALLATION MANUAL.
 - ② - PAVED SHOULDER, 0.25' HMA (TYPE A)
 - ③ - 0.5' HMA (TYPE A), 1.0' AB (CLASS 2)
 - ④ - RSP CLASS V AND CLASS II FOR INTERLOCK (METHOD B), W/ FILTER FABRIC
- RETAINING WALL, TYPE 5

1 PLAN
 N.T.S.

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF : REGISTERED CIVIL ENGINEER DATE:	DESIGNED: ZO DRAWN: RR CHECKED: CG DATE: 08/26/21 ROAD NUMBER: 84
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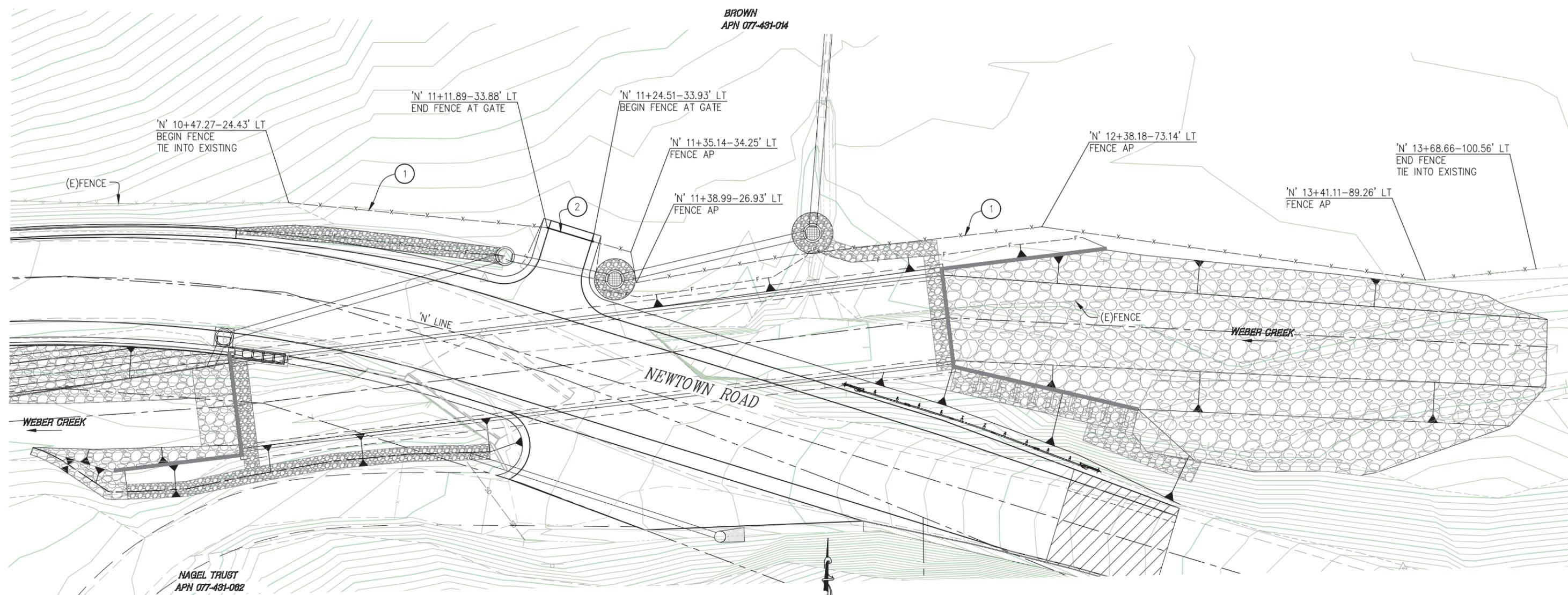


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

SHEET
C-6
13 OF 31
W.O. No. 77122

ORIGINAL SCALE IS IN INCHES
 Drawing name: U:\18060 - Newtown Rd Br. Replacement - El Dorado Co.\400 Project Design Files\420 Roadway & Civil\Plans\C-SHEETS.dwg Layout Tab: C-7 Mar 28, 2024 - 3:52pm hdu
 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



1 PLAN
N.T.S.

NOTES:

1. STATION/OFFSET DATA PER 'N' LINE.
- ① — FENCES THAT ARE RELOCATED SHALL MATCH EXISTING FENCE IN TYPE AND CONSTRUCTION.
- ② — PROPOSED GATE SHALL MATCH EXISTING GATE IN TYPE AND CONSTRUCTION. EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: RR
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 08/26/21
DATE:	ROAD NUMBER: 84	

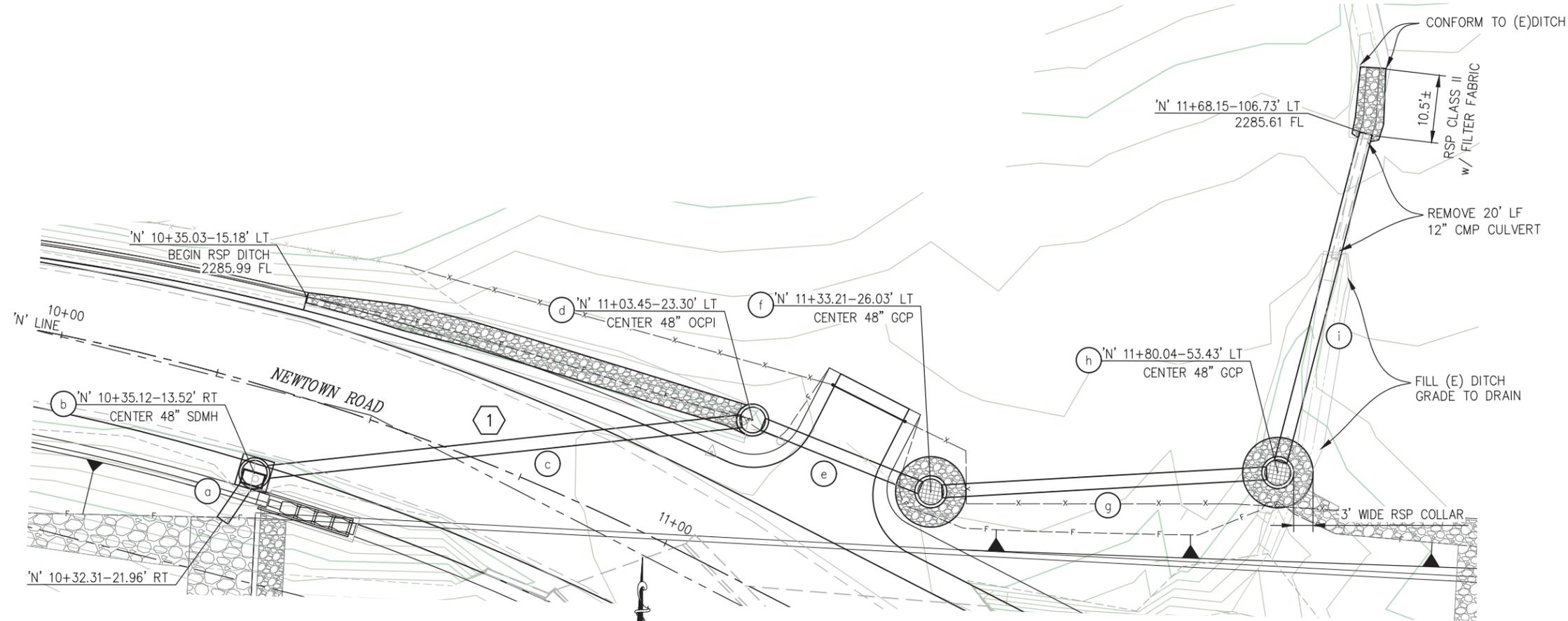


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

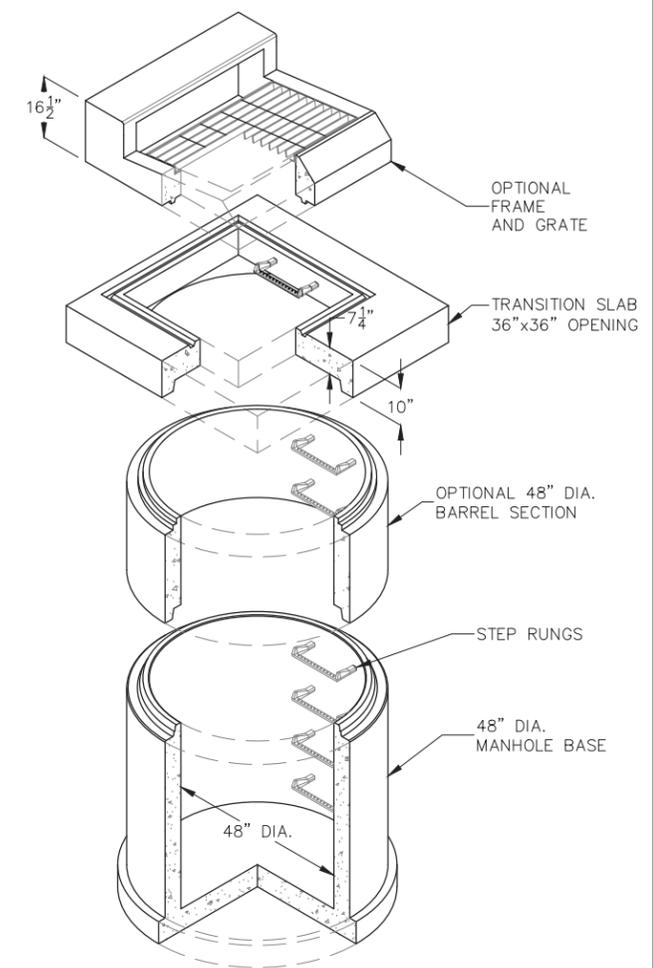
NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

SHEET	C-7
14 OF 31	
W.O. No.	77122

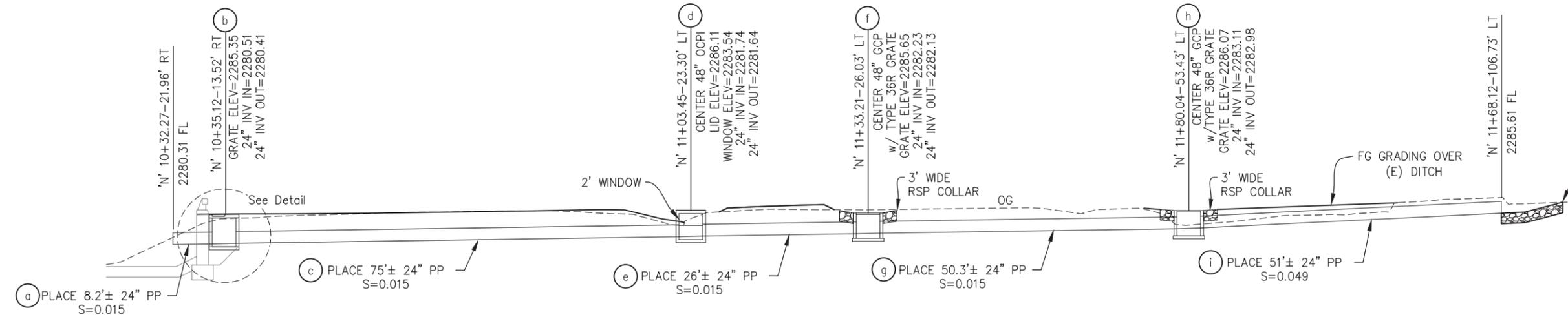
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 REVISION
 NUMBER DATE DESCRIPTION BY



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



DETAIL
N.T.S.



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

NOTES:
1. STATION/OFFSET DATA PER 'N' LINE.

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF:	DESIGNED: ZO	DRAWN: RR
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 08/26/21
DATE:	ROAD NUMBER: 84	

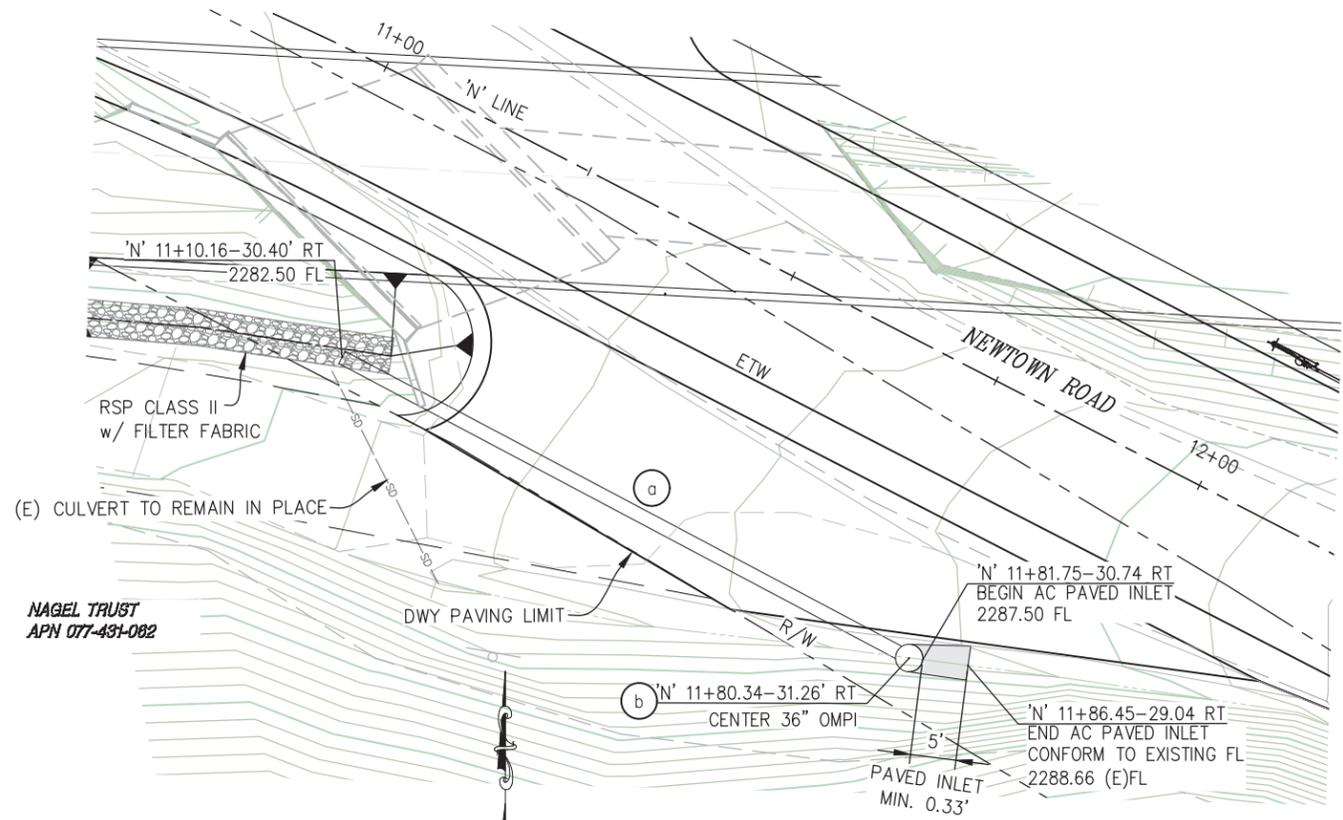


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

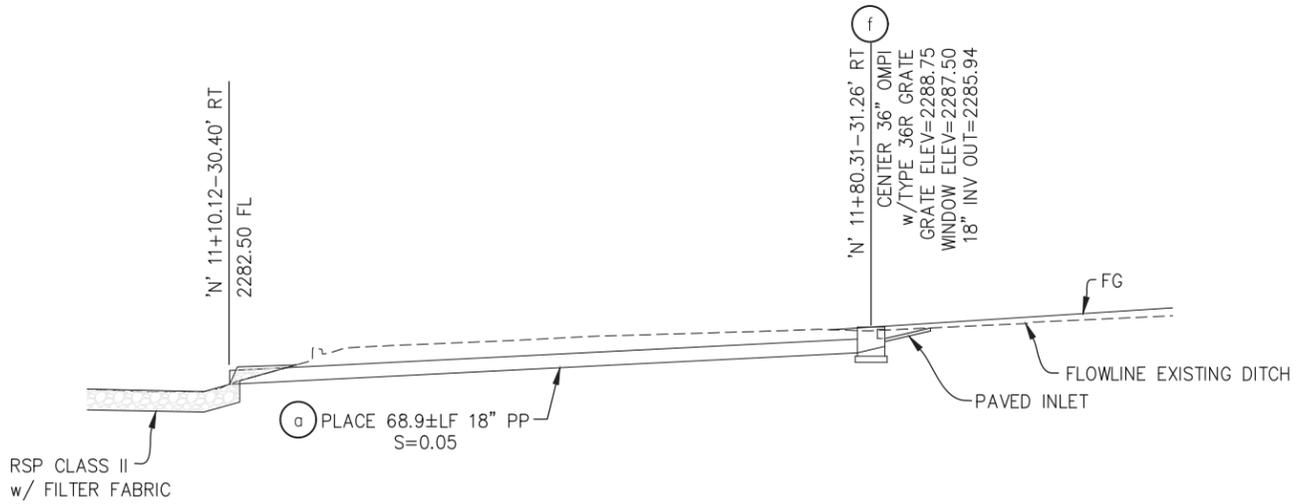
NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

SHEET
D-1
15 OF 31
W.O. No. **77122**

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



2 PLAN - DRAINAGE SYSTEM 2
SCALE: 1"=10'



2 PROFILE - DRAINAGE SYSTEM 2
SCALE: 1"=10' H,V

- NOTES:
1. STATION/OFFSET DATA PER 'N' LINE.
 2. WINDOW SHALL BE 2'x1' OPENING PER D75A.

NOT FOR CONSTRUCTION

DRAINAGE SYSTEM 2
SCALE : AS NOTED

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED: ZO
DRAWN: RR

CHECKED: CG
DATE: 08/26/21

ROAD NUMBER: 84



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

SHEET
D-2
16 OF 31
W.O. No. **77122**

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

PLAN SHEET NO.	SYSTEM NO.	DRAINAGE UNIT	24" PLASTIC PIPE	18" PLASTIC PIPE	36" OMPI w/TYPE 36R GRATE	48" OCPI	48" GCP	48" SDMH	RSP (No.1)	RSP FABRIC	MISC CONCRETE	MISC AC PAVING	REMOVE (E)12" CMP	CALTRANS STANDARD PLAN OR DETAIL REFERENCES	SLOPE	STATION	DRAINAGE UNIT	SYSTEM NO.	PLAN SHEET NO.	
D-1	1	a	8										20		S=0.015		a	1	D-1	
		b						1							S=0.015	10+35.12-13.52' RT	b			
		c	75														c			
		d				1								D75B		11+03.45-23.30' LT	d			
		e	26												S=0.015		e			
		f						1		5	14				D75B	S=0.015	11+33.21-26.03' LT			f
		g	53													S=0.015				g
		h						1		5	14						11+80.04-53.43' LT			h
		i	51							3.5	7.5					S=0.049				i
		j																		j
D-2	2	a		69											S=0.05		a	2	D-2	
		b			1						.25	.25		D75A		11+80.31-31.26' RT	b			
BID QUANTITY			212	69	1	1	2	1	13.5	35.5	.25	.25	20							

NOTES:
 1. STATION OFFSET CALLOUTS PER 'N' ALIGNMENT

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO DRAWN: RR
 CHECKED: CG DATE: 08/26/21
 ROAD NUMBER: 84



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

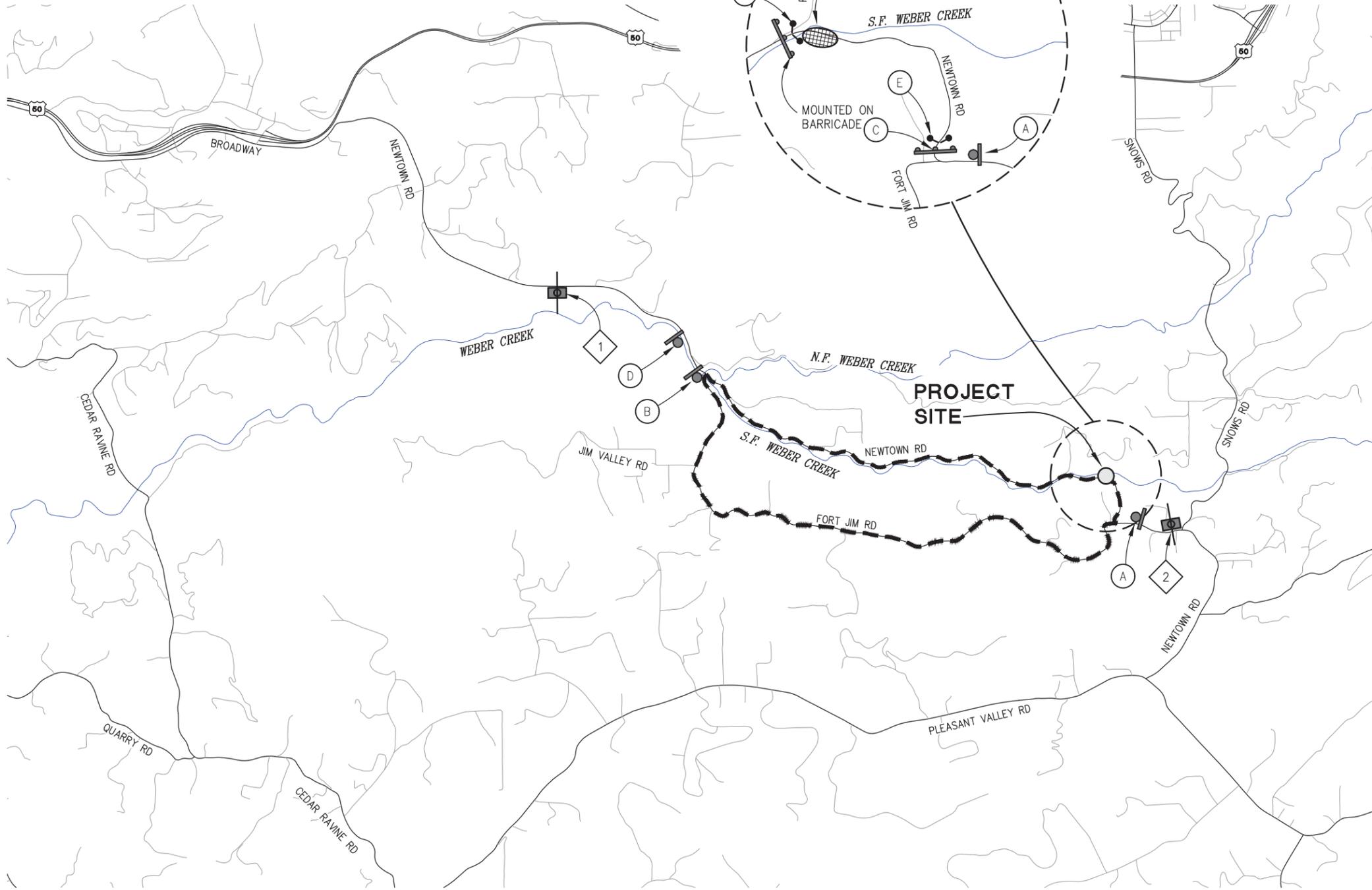
NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

SHEET
D-3
 17 OF 31
 W.O. No. **77122**

DRAINAGE QUANTITIES
 SCALE : NONE

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
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PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TABLE				
PCMS No.	POST MILE (PM)	FIRST FLASH	SECOND FLASH	THIRD FLASH
1	NEWTOWN RD ±1.48	NEWTOWN ROAD CLOSED	(DATES CLOSED)	USE DETOUR
2	NEWTOWN RD ±5.05	NEWTOWN ROAD CLOSED	(DATES CLOSED)	USE DETOUR



LEGEND

- PCMS - PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN
- TYPE III BARRICADE(S) w/ FLASHING BEACON
- TEMPORARY GATES

NEWTOWN ROAD DETOUR ↑

NEWTOWN ROAD DETOUR →

ROAD CLOSED ○

ROAD CLOSED AHEAD ◇

2 MILES □

○

GENERAL NOTES:

- 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.

NUMBER	DATE	DESCRIPTION	BY

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

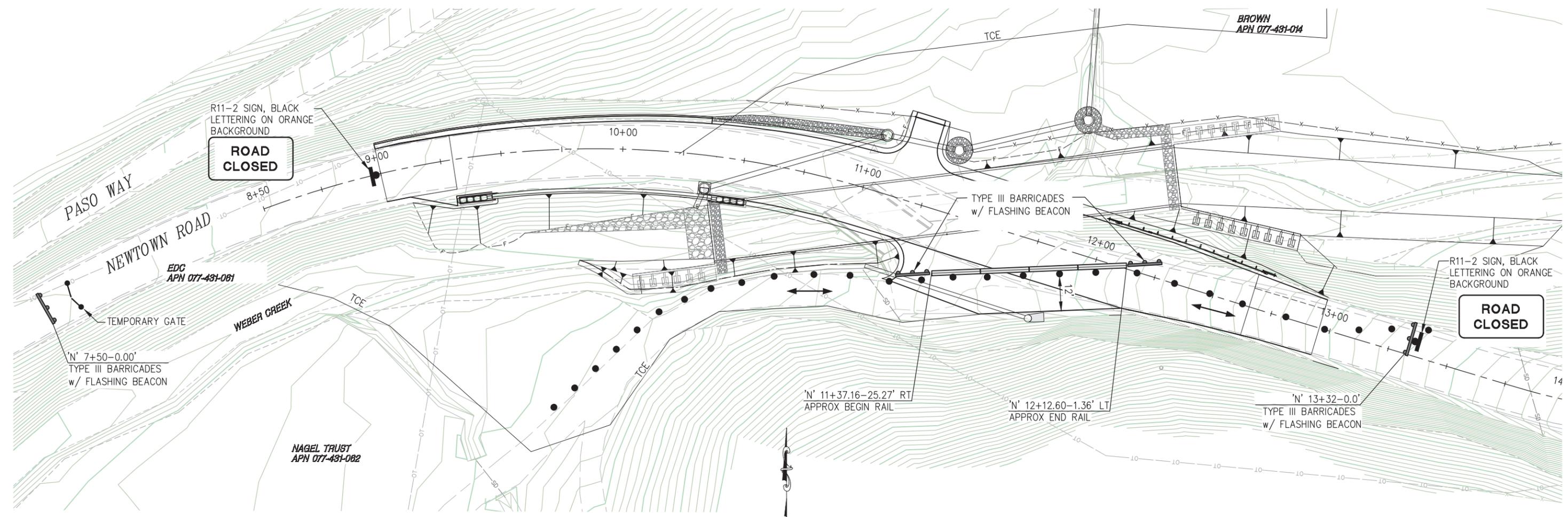
DESIGNED: ZO DRAWN: RR
 CHECKED: CG DATE: 08/26/21
 ROAD NUMBER: 84

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

SHEET
DE-1
 18 OF 31
 W.O. No. **77122**

ORIGINAL SCALE IS IN INCHES
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 Layout Tab: SC-1 Mar 28, 2024 - 3:53pm hdu
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 NUMBER DATE DESCRIPTION BY



PLAN - NEWTOWN ROAD
SCALE: 1"=20'H

GENERAL STAGE CONSTRUCTION NOTES:

- REFER TO SPECIAL PROVISIONS FOR TRAFFIC HANDLING & ACCESS REQUIREMENTS WITHIN THE WORK AREA.
- MAINTAIN EXISTING SHOULDER AREA AS LONG AS POSSIBLE.
- EXACT LOCATION OF CONSTRUCTION AREA SIGNS AND PCMS SHALL BE DETERMINED BY ENGINEER.
- CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN FOR ANY DETOURS AND CHANGES ON THE STAGE CONSTRUCTION PLANS TO THE ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO IMPLEMENTATION. CONTRACTOR TO COORDINATE ALL STAGE CONSTRUCTION AND TRAFFIC HANDLING WITH UTILITY RELOCATIONS
- CONTRACTOR MUST ENSURE DRAINAGE & SWPPP IS PROPERLY MANAGED & MAINTAINED THROUGH STAGES OF CONSTRUCTION.

STAGE CONSTRUCTION NOTES:

- DEMO OF EXISTING BRIDGE
- CONSPAN EXCAVATION
- RETAINING WALL EXCAVATION (ALONG ROAD)
- CONSTRUCTION OF FOOTING & FOUNDATIONS
- INSTALLATION OF ARMORFLEX FOR THE CONSPAN & CREEK
- INSTALLTION OF THE CONSPAN & WINGWALLS
- STRUCTURE AND WALL BACKFILL
- DRAINAGE SYSTEM 1 & 2 (FOLLOWING THE CONSPAN INSTALLATION)
- RSP PLACEMENT (UPSTREAM & DOWNSTREAM)
- ROAD EXCAVATION & GRADING
- ROADWAY PAVING & STRIPING
- INSTALLATION OF MGS, AC DIKE, AC LINED DRAINAGE DITCHES
- PLACE ALL EROSION CONTROL (SEE EC SHEET)

LEGEND

- TEMPORARY SIGN
- TYPE III BARRICADE(S) w/ FLASHING BEACON
- TEMPORARY GATES, SEE SHEET DE-1 FOR ADDITIONAL GATE LOCATION
- TEMPORARY RAIL (TYPE K)
- CHANNELIZER DRUMS
- PORTABLE FLASHING BEACON
- PRIVATE ACCESS

NOTES:

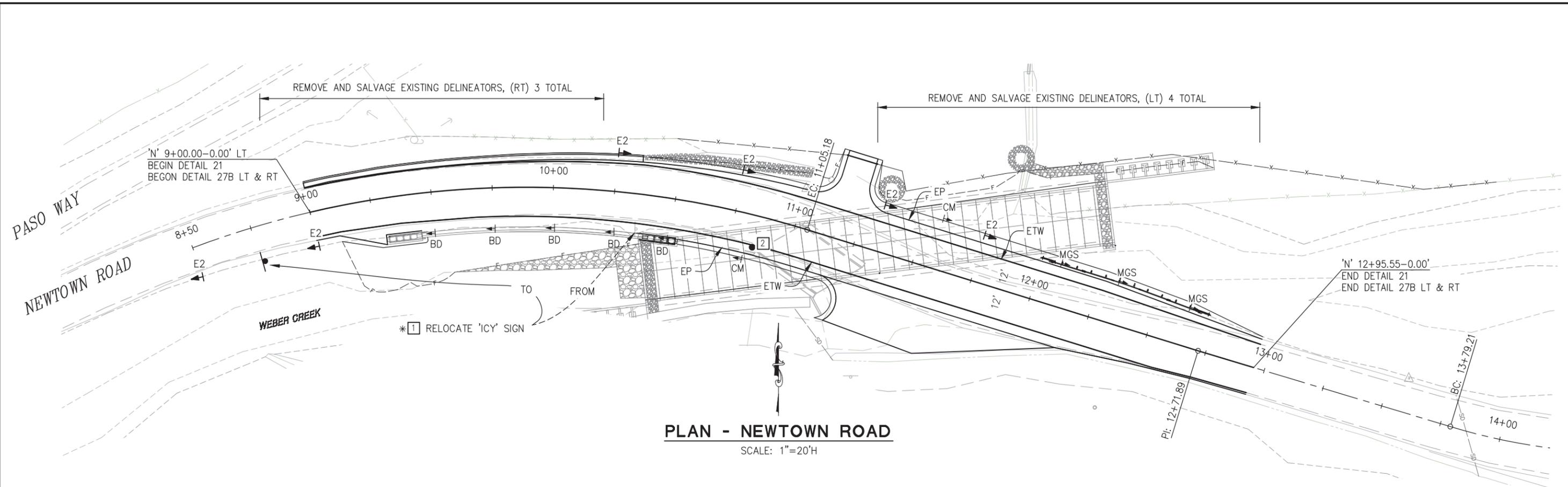
- STATION/OFFSET DATA PER N LINE.
- SEE TREE REMOVAL PLAN, TR-SHEETS
- SEE DE-1 SHEET FOR ADDITIONAL SIGNING AND PCMS LOCATIONS.

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF : REGISTERED CIVIL ENGINEER DATE:	DESIGNED: ZO CHECKED: CG ROAD NUMBER: 84	DRAWN: RR DATE: 08/26/21	 COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION SCALE : AS NOTED NEWTOWN ROAD AT SOUTH FORK WEBER CREEK BRIDGE REPLACEMENT	SHEET SC-1 19 OF 31 W.O. No. 77122
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ORIGINAL SCALE IS IN INCHES
 Drawing name: U:\18060 - Newtown Rd Br Rplacemnt - El Dorado Co\400 Project Design Files\420 Roadway & Civil\Plans\SPD-1.dwg Layout Tab: SPD-1 Mar 28, 2024 - 3:53pm ndu
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PLAN - NEWTOWN ROAD
SCALE: 1"=20'H

CONSTRUCTION NOTES

1. THIS PLAN IS ACCURATE FOR FINAL SIGNING AND PAVEMENT DELINEATION ONLY. SEE "SC" SHEETS FOR STAGE CONSTRUCTION SIGNING AND STRIPING.
2. ALL STRIPING SHALL BE ENHANCED WET-NIGHT THERMOPLASTIC.
3. LOCATIONS OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
4. VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO SIGN POST INSTALLATION.
5. ALL CONSTRUCTION AND PERMANENT SIGNS WILL HAVE 4" X 4" PRESSURE TREATED DOUGLAS FUR WOOD POSTS UNLESS OTHERWISE NOTED.
6. ALL PERMANENT SIGNS SHALL BE 12 GAUGE (0.078") ALUMINUM PANELS WITH HIGH INTENSITY PRISMATIC SHEETING (HIP), ASTM 4956 TYPE III,IV, OR X.
7. ALL EXISTING MARKERS/DELINEATORS WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND SALVAGED (7 TOTAL) UNLESS OTHERWISE NOTED. REMOVE AND SALVAGE (1) EXISTING TYPE P MARKERS AT THE WEBER CREEK BRIDGE.
8. 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.

CULVERT MARKER

MILE MARKER	STATION
15.11	'N' 10+82-18' RT
15.11	'N' 11+57-20' LT

DELINEATORS

LOCATION	TYPE E CLASS 2
'N' 8+50-13.5' RT	1
'N' 9+00-14.5' RT	1
'N' 10+25-15.5' LT	1
'N' 10+75-16.9' LT	1
'N' 11+32-19.7' LT	1
'N' 11+75-19.7' LT	1
TOTAL	6

THERMOPLASTIC STRIPING

STANDARD PLAN NO.	FROM	TO	THERMOPLASTIC			REMARKS
			8" WHITE FT	4" WHITE FT	4" YELLOW FT	
DETAIL 21	'N' 9+00	'N' 12+95.5			792	CENTERLINE
DETAIL 27B	'N' 9+00 (RT)	'N' 12+95.5 (RT)		390		EDGE LINE
	'N' 9+00 (LT)	'N' 12+95.5 (LT)		401		
		TOTAL	791	792		

SIGN QUANTITIES

SIGN NO.	SIGN	ROADSIDE SIGNS			EXISTING LOCATION	PROPOSED LOCATION (APPROXIMATELY)
		ONE POST EA	RELOCATE EA	SALVAGE EA		
1	ICY		1		'N' 10+35-14.3' RT	'N' 8+76-14.6' RT
2	MARKER TYPE P (CA)			1	'N' 10+86-14.5' RT	

SIGNING LEGEND

- XX - SIGN NUMBER
- - EXIST SIGN
- - INSTALL SIGN
- - EXISTING MARKER/DELINEATOR
- ▶ - PROPOSED MARKER/DELINEATOR
E2 = TYPE E, CLASS 2 DELINEATOR, PER A73C.
- - REMOVE AND SALVAGE ROADSIDE SIGN
- * - RELOCATE ROADSIDE SIGN
- ◀- CM - CULVERT MARKER
- ◀- BD - CONCRETE BARRIER DELINEATOR
TYPE E, TOP MOUNT
5 TOTAL
- ◀- MGS - FLEXIBLE POST DELINEATOR PER A77N4
3 TOTAL

NOTES:
1. STATION/OFFSET CALLOUTS PER N LINE.

THIS PLAN ACCURATE FOR SIGNING AND PAVEMENT DELINEATION WORK ONLY

NOT FOR CONSTRUCTION

SIGNING AND PAVEMENT DELINEATION
SCALE: 1" = 20'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER
DATE:

DESIGNED: ZO RR
DRAWN: RR
CHECKED: CG DATE: 08/26/21
ROAD NUMBER: 84

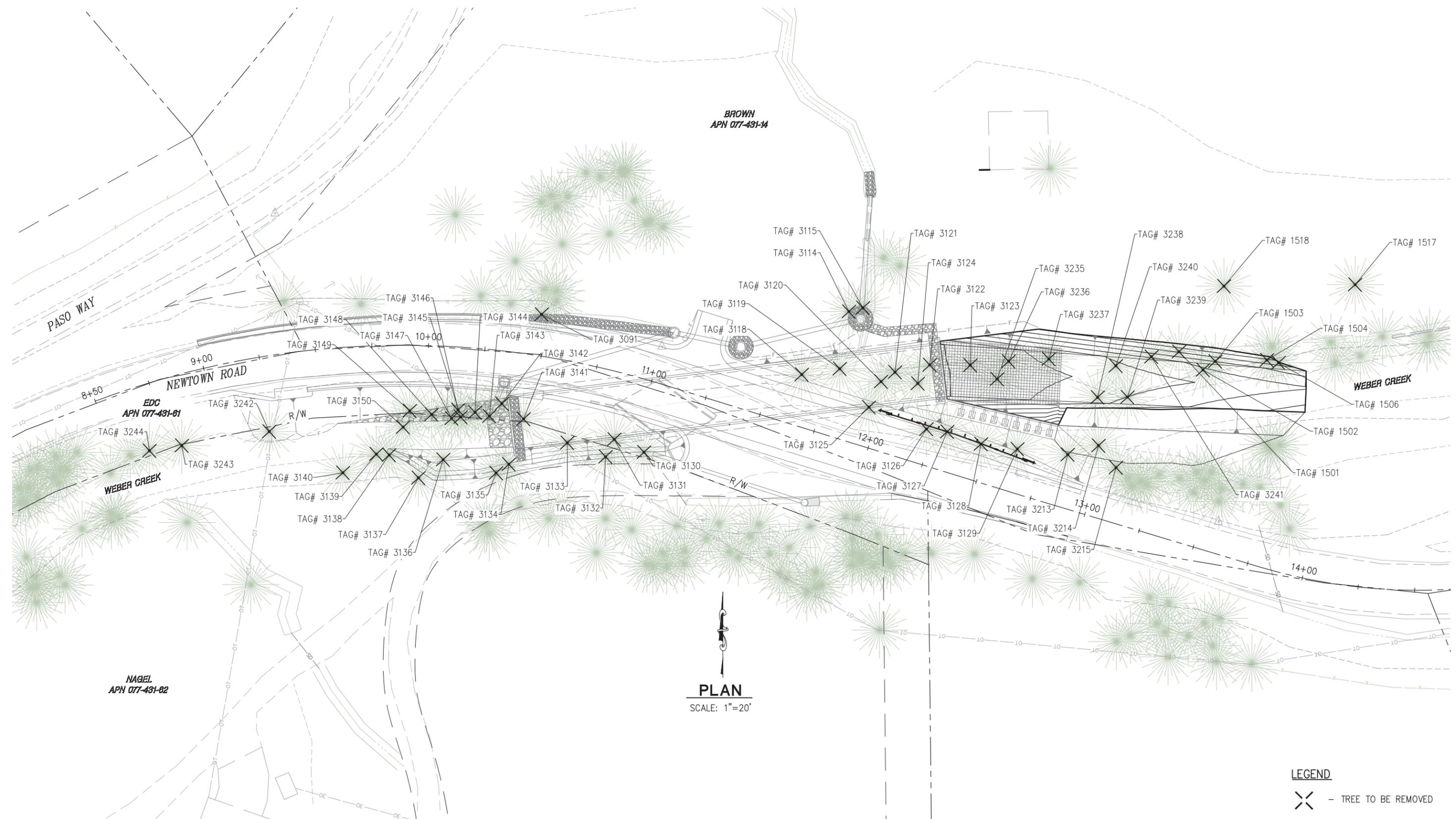


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

SHEET
SPD-1
20 OF 31
W.O. No. **77122**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 REVISION



PLAN
SCALE: 1"=20'

LEGEND
 - TREE TO BE REMOVED

THIS PLAN ACCURATE FOR TREE REMOVAL WORK ONLY

NOT FOR CONSTRUCTION

TREE REMOVAL PLAN
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: RR
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 08/26/21
DATE:	ROAD NUMBER: 84	



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT

SHEET
TR-1
21 OF 31
W.O. No. **77122**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 2
 1
 0

TREE REMOVAL TABLE			
TAG NUMBER	STATION	OFFSET	DESCRIPTION
1501	13+08.3	75.01 LT	OAK-0.54ø
1502	13+19.2	80.69 LT	OAK-0.38ø
1503	13+31.41	75.94 LT	ORNAMENTAL,CLUSTER-1.46ø
			1.21ø
			1.50ø
			1.15ø
			1.24ø
			1.66ø
			2.61ø
1504	13+57.38	88.14 LT	OAK-0.99ø
1506	13+62.71	88.56 LT	OAK-0.89ø
1517	13+90.92	131.12 LT	OAK-1.20ø
1518	13+39.19	113.96 LT	PINE-0.57ø
3091	10+47.48	16.77 LT	OAK-4.7ø
3114	11+74.34	54.94 LT	OAK-0.92ø
3115	11+79.77	58.32 LT	ORNAMENTAL,FORKED-0.67ø
			0.86ø
3118	11+62.64	22.29 LT	ORNAMENTAL/PEAR-1.62ø
3119	11+77.90	29.67 LT	ORNAMENTAL/PEAR-1.11ø
3120	11+97.01	29.65 LT	ALDER-1.11ø
3121	12+01.67	35.43 LT	MAPLE-0.60ø
3122	12+15.35	42.98 LT	ALDER, CLUSTER-0.80ø
			0.57ø
3123	12+32.51	48.13 LT	OREGON ASH FORKED-0.64ø
			0.76ø
3124	12+12.75	33.65 LT	ALDER-1.24ø
3125	11+95.22	17.27 LT	ALDER-2.29ø
3126	12+22.31	15.57 LT	MAPLE, FORKED-1.27ø
			1.21ø
3127	12+31.41	17.19 LT	MAPLE, CLUSTER-0.57ø
			0.60ø
			0.48ø
3128	12+47.26	16.39 LT	MAPLE-0.92ø
3129	12+63.24	19.01 LT	MAPLE, CLUSTER-0.83ø
			0.70ø

TREE REMOVAL TABLE			
TAG NUMBER	STATION	OFFSET	DESCRIPTION
			0.67ø
3130	11+06.22	30.96 RT	ALDER-1.72ø
3131	10+92.02	29.44 RT	ALDER, FORKED-0.89ø
			1.37ø
3132	10+90.62	37.87 RT	MAPLE-0.38ø
3133	10+70.47	36.58 RT	ALDER, FORKED-1.18ø
			0.95ø
3134	10+41.87	50.60 RT	MAPLE-0.64ø
3135	10+35.33	55.05 RT	MAPLE-0.57ø
3136	10+07.43	50.44 RT	ALDER-1.97ø
3137	9+95.14	58.54 RT	ALDER-1.33ø
3138	9+80.79	48.22 RT	MAPLE-0.60ø
3139	9+74.48	47.59 RT	MAPLE-0.73ø
3140	9+57.30	54.74 RT	OAK-1.56ø
3141	10+46.35	29.98 RT	ALDER-1.31ø
3142	10+34.77	24.42 RT	RED WILLOW-0.35ø
3143	10+29.15	30.38 RT	ALDER-1.08ø
3144	10+21.98	29.13 RT	ALDER-1.11ø
3145	10+15.30	31.48 RT	ALDER-1.85ø
3146	10+13.96	28.37 RT	MAPLE-0.57ø
3147	10+11.06	32.19 RT	ALDER-1.31ø
3148	10+01.52	30.63 RT	ALDER, FORKED-1.24ø
			1.43ø
3149	9+91.24	28.98 RT	MAPLE-1.08ø
3150	9+87.95	36.11 RT	ALDER-1.43ø
3213	12+85.43	23.13 LT	MAPLE-0.89ø
3214	12+97.29	30.81 LT	MAPLE-0.80ø
3215	13+07.48	23.78 LT	OAK, CLUSTER-0.64ø
			0.60ø
			1.21ø
3235	12+45.62	45.83 LT	MAPLE-1.37ø
3236	12+48.17	54.79 LT	ORNAMENTAL/PRUNUS SP-0.76ø
3237	12+64.84	60.99 LT	ORNAMENTAL/PRUNUS SP-1.34ø
3238	12+90.82	51.05 LT	OREGON ASH-1.15ø
3239	13+03.44	54.94 LT	OREGON ASH-1.27ø

TREE REMOVAL TABLE			
TAG NUMBER	STATION	OFFSET	DESCRIPTION
3240	12+94.56	66.69 LT	MAPLE, CLUSTER-0.83ø
			0.57ø
			0.60ø
3241	13+08.3	75.01 LT	MAPLE, CLUSTER-0.89ø
			0.73ø
			0.99ø
			0.57ø
3242	9+23.92	33.05 RT	OAK-1.72ø
3243	8+81.40	30.54 RT	OAK-1.08ø
3244	8+65.92	28.53 RT	OAK-1.78ø

THIS PLAN ACCURATE FOR TREE REMOVAL WORK ONLY

TREE REMOVAL PLAN
SCALE : NONE

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: ZO RR
 CHECKED: CG
 DATE: 10/14/21
 ROAD NUMBER: 84

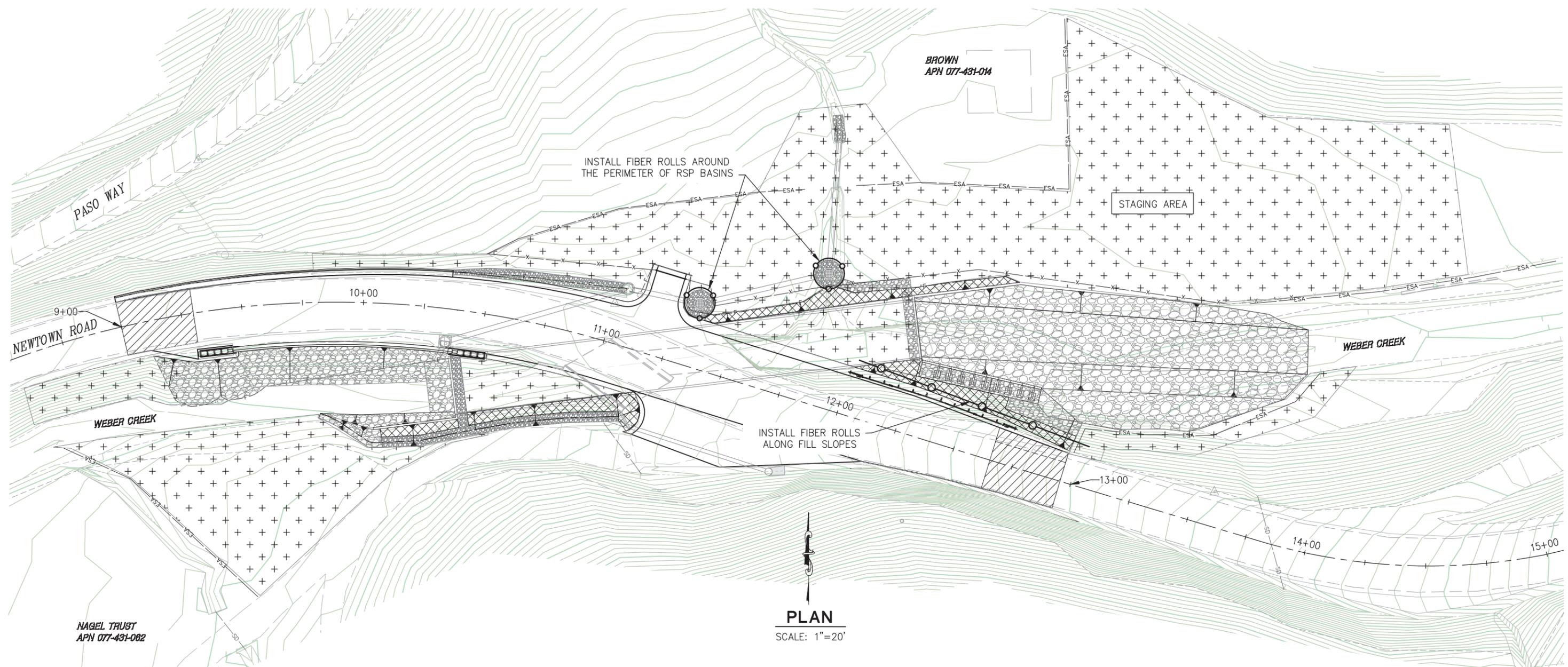


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT
SOUTH FOR WEBER CREEK
BRIDGE REPLACEMENT

SHEET
TR-2
22 OF 31
W.O. No. 77122

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 REVISION



PLAN
SCALE: 1"=20'

FIBER ROLLS				
SEQUENCE	ITEM DESCRIPTION	MATERIAL		REMARKS
		DESCRIPTION	TYPE	
INSTALL PRIOR TO HYDROSEEDING	FIBER ROLLS	FIBER ROLL	8" TO 10" DIA.	TYPE 1 FIBER ROLL INSTALLATION

GENERAL NOTES:

- HYDROSEED ALL DISTURBED AREAS. INSTALL ROLLED EROSION CONTROL PRODUCT (NETTING, TYPE B) TO THE HINGE POINTS OF DITCHES OR AS DIRECTED BY THE ENGINEER AND/OR QSD. SEE HYDROSEED APPLICATION TABLE BELOW.
- LIMITS FOR STAGING AREA MAY VARY AND THE HYDROSEED QUANTITY IS APPROXIMATE.

SEQUENCE	ITEM	MATERIAL DESCRIPTION	APPLICATION RATE
STEP 1	HYDROSEED	SEED	42 LB/ACRE
		FIBER	500 LB/ACRE
		ORGANIC FERTILIZER	500 LB/ACRE
STEP 2	STRAW	STRAW	4,000 LB/ACRE
STEP 3	HYDROMULCH	FIBER	500 LB/ACRE
		ORGANIC FERTILIZER	500 LB/ACRE
		TACKIFIER	120 LB/ACRE

LEGEND:

- ARMORFLEX CHANNEL PROTECTION
- ROCK SLOPE PROTECTION
- HYDROSEED - 34,607± S.F.
- HYDROSEED & ROLLED EROSION CONTROL PRODUCT (NETTING, TYPE B) - 1,636± S.F.
- FIBER ROLLS, PER H51 (TYPE 1 INSTALLATION) - 180± LF
- TEMPORARY HIGH VISIBILITY FENCE - 634± LF
- ESA

THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY

REVISION	NUMBER	DATE	DESCRIPTION	BY

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: ZO	DRAWN: RR
REGISTERED CIVIL ENGINEER	CHECKED: CG	DATE: 08/26/21
DATE:	ROAD NUMBER: 84	

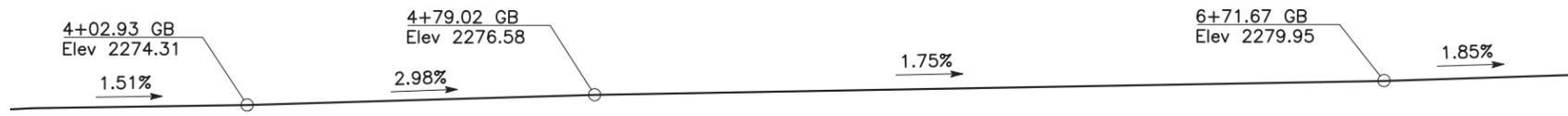


**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

**NEWTOWN ROAD AT
SOUTH FORK WEBER CREEK
BRIDGE REPLACEMENT**

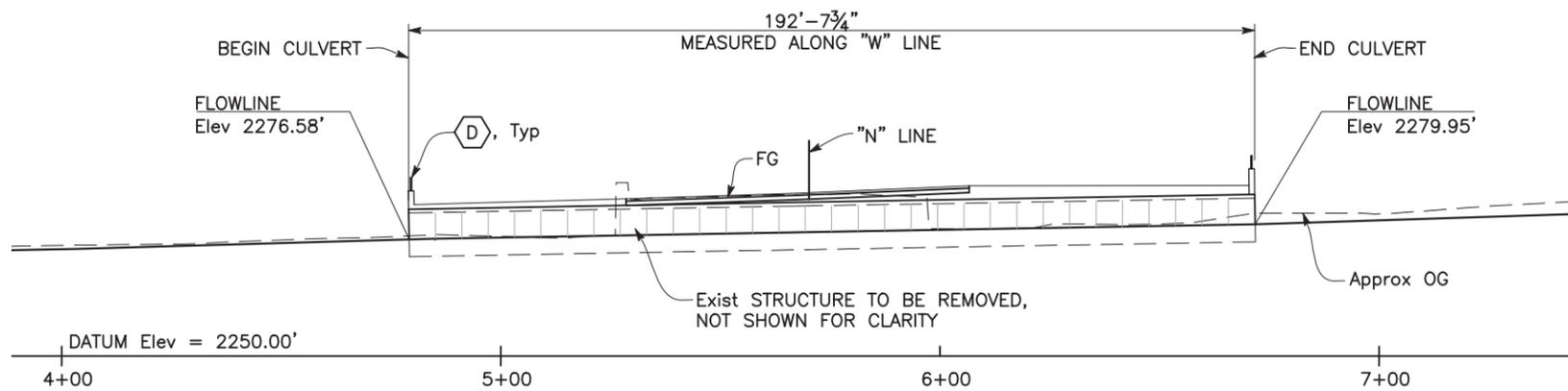
**EROSION CONTROL
SCALE : AS NOTED**

SHEET	EC-1
23 OF 31	
W.O. No.	77122



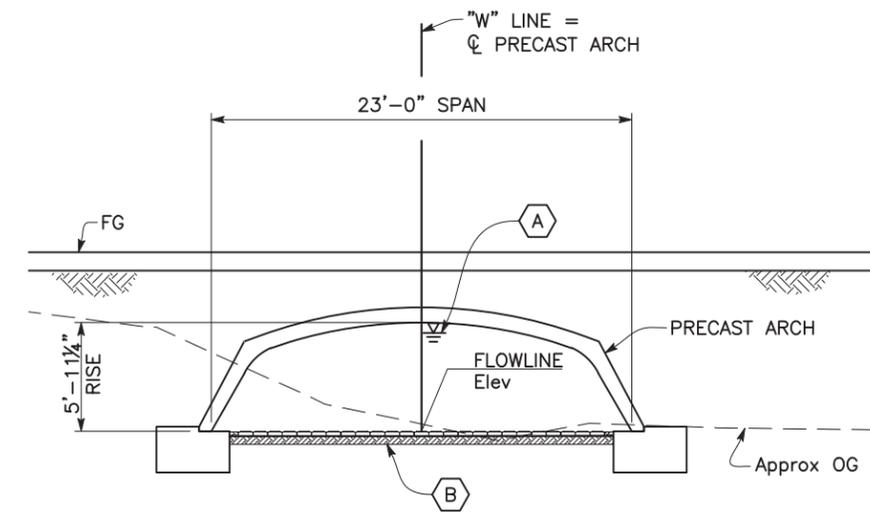
FLOWLINE PROFILE (ALONG "W" LINE)

NO SCALE



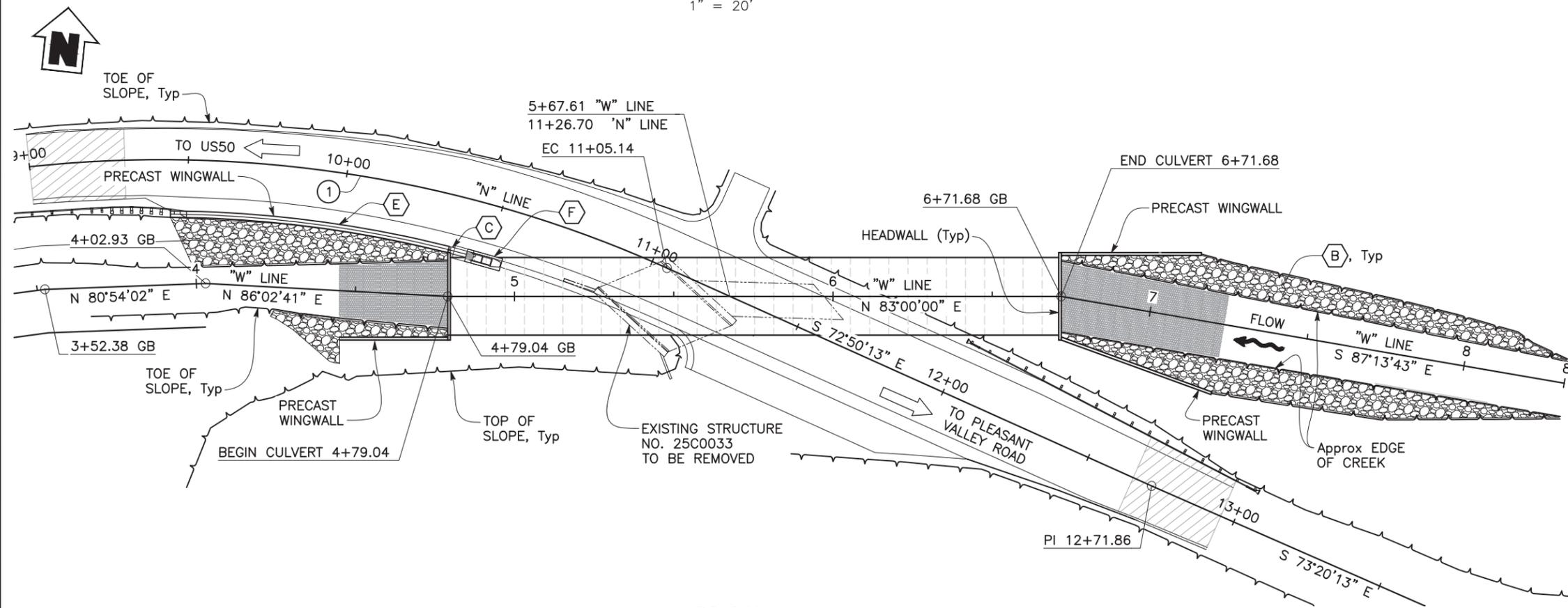
LONGITUDINAL SECTION (ALONG "N" LINE)

1" = 20'



TYPICAL SECTION

1" = 5'-0"



PLAN

1" = 20'

KEY NOTES:

- (A) 100 YR WS Elev = 2285.32'
- (B) For Creek Protection, see "ROAD PLANS"
- (C) Paint Bridge Number 25C0150, year completed and "Newton Road".
- (D) Cable Railing
- (E) Concrete Barrier (Type 85), no tubular hand railing
- (F) Crash Cushion, see "ROAD PLANS"

LEGEND:

- Indicates Direction of Water Flow
- Indicates Direction of Traffic
- Indicates Existing Structure to be removed
- Indicates New Structure

CURVE DATA

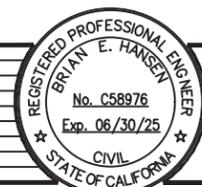
No.	R	Δ	T	L
①	388.11'	30°17'04"	105.03'	205.14'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

NOT FOR CONSTRUCTION

SCALE AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 XX/XX/XX
 DATE:

DESIGNED: BH
 DRAWN: EC
 CHECKED: EC
 DATE: 11/13/20
 ROAD NUMBER: 84



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT SOUTH FORK
 WEBER CREEK BRIDGE REPLACEMENT
 GENERAL PLAN

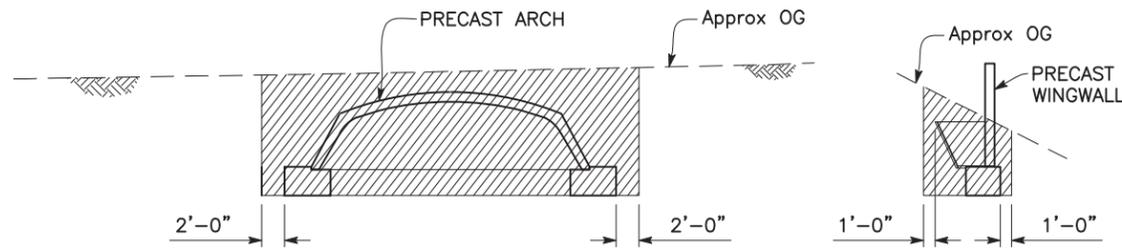
SHEET
 ST-1
 24 OF 31
 W.O. No. 77122

INDEX TO PLANS

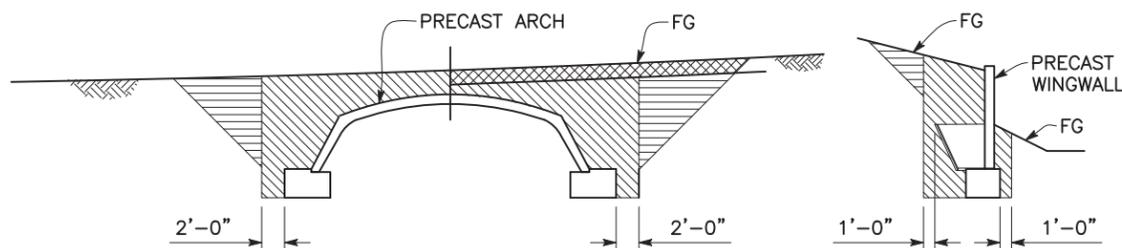
Dwg. No.	Title
ST-1	GENERAL PLAN
ST-2	GENERAL NOTES
ST-3	FOUNDATION PLAN
ST-4	DETAILS NO. 1
ST-5	DETAILS NO. 2
ST-6	DETAILS NO. 3
ST-7	LOG OF TEST BORINGS
ST-8	LOG OF TEST BORINGS

LOAD AND RESISTANCE FACTOR DESIGN:

SPECIFICATION:	AASHTO LRFD Bridge Design Specifications, Eight Edition, and the California Amendments, preface dated December 2023. Caltrans Seismic Design Criteria (SDC), Version 2.0, dated April 2019
LIVE LOADING:	HL 93, design tandem and design lane loading.
SEISMIC:	$k_v = 0.2$ $k = 0.0$
REINFORCED CONCRETE:	$f_c = 3.6 \text{ ksi}$ $f_s = 60 \text{ ksi}$



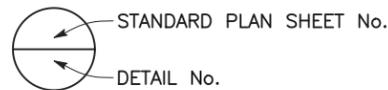
EXCAVATION



ADJACENT TO ROADWAY

AT ROADWAY

BACKFILL



STRUCTURE EXCAVATION AND BACKFILL

NO SCALE

LEGEND:

	Structure Excavation
	Structure Backfill
	Roadway Embankment
	Roadway Pavement Structure

NOTES:

- Precast Arch to be CON/SPAN 0323 Bridge System or approved equal. Proposed alternate must provide waterway area of 107 square feet.

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

NOT FOR CONSTRUCTION

SCALE AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE: XX/XX/XX

DESIGNED: BH	DRAWN: EC
CHECKED:	DATE: 11/13/20
ROAD NUMBER: 84	



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT SOUTH FORK
 WEBER CREEK BRIDGE REPLACEMENT
 GENERAL NOTES

SHEET	ST-2
25 OF 31	
W.O. No.	77122

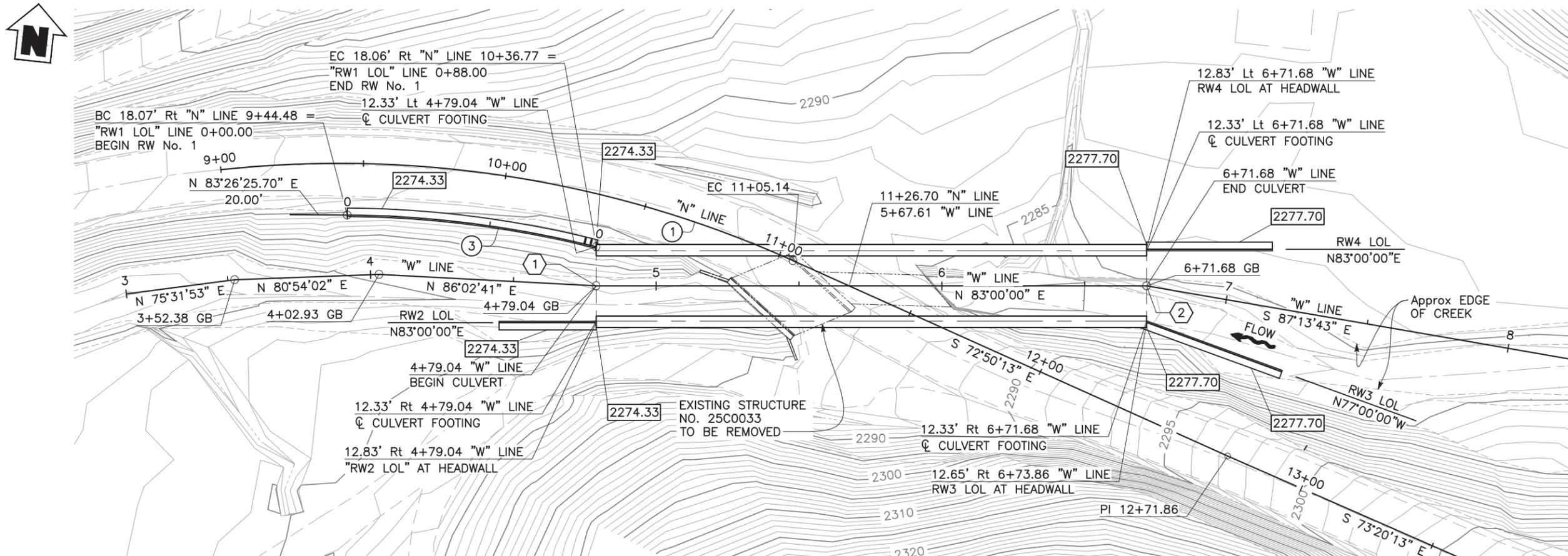
BENCHMARK:

See "SURVEY AND CONTROL DIAGRAM" sheet

SPREAD FOOTING DATA TABLE			
Support Location	Service Permissible Net Contact Stress, (Settlement) B' (ft), q _o (ksf)	Strength/Construction Factored Gross Nominal Bearing Resistance B' (ft), q _o (ksf)	Extreme Event Factored Gross Nominal Bearing Resistance B' (ft), q _o (ksf)
Arch Culvert	4, 44.6	4, 20.3	4, 45.1
RW 1, 2, 3, 4	5.3	4.0	8.9

Arch Culvert values provided for a effective Footing Width (B') of 4.0', see Foundation Report for allowable limits with different Effective Footing Width

	Northing	Easting
① "N" Sta 4+79.04	2022180.99	6937717.67
② "N" Sta 6+71.68	2022204.47	6937908.88



PLAN

1" = 20'

HYDROLOGIC SUMMARY TABLE

Drainage Area = 4.31 Square Miles		
Frequency (Years)	Design Flood	Base Flood
	10	100
Discharge (Cubic Feet per Second)	649	1365
Water Surface Elevation, Ft Immediately Upstream of Bridge	2283.54	2285.32

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 and interested or affected parties should make their own investigation.

CURVE DATA

No.	R	Δ	T	L
①	388.11'	30°17'04"	105.03'	205.14'
③	370.00'	13°37'38"	44.21'	88.00'

NOTES:

- For information regarding Existing Utilities see "SURVEY AND CONTROL DIAGRAM" sheet.
- For information regarding construction of new Drainage Systems, see "DRAINAGE PLAN" sheet.
- Bottom of Footing Elevation assumes precast arch footing as shown on "DETAILS NO. 3" sheet. The Bottom of Footing Elevation varies linearly between values shown.

LEGEND:

- Indicates Bottom of Footing Elevation, see Note 3
- Indicates Direction of Water Flow
- Indicates New Structure
- Indicates Existing Structure to be removed

SCALE AS SHOWN

NOT FOR CONSTRUCTION

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 XX/XX/XX
 DATE: XX/XX/XX

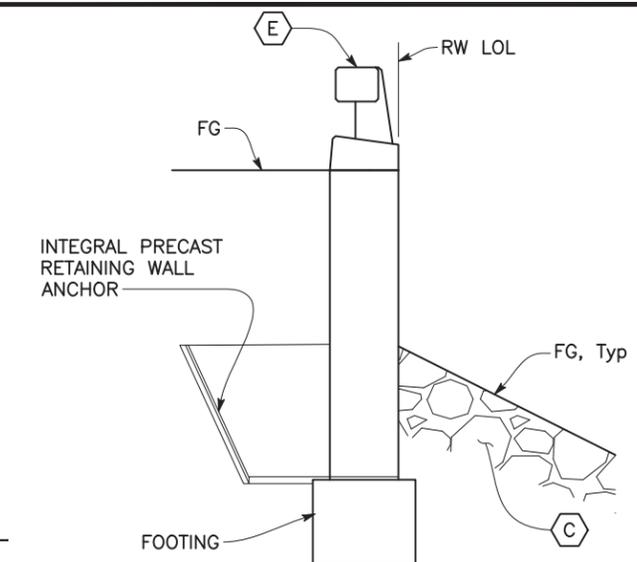
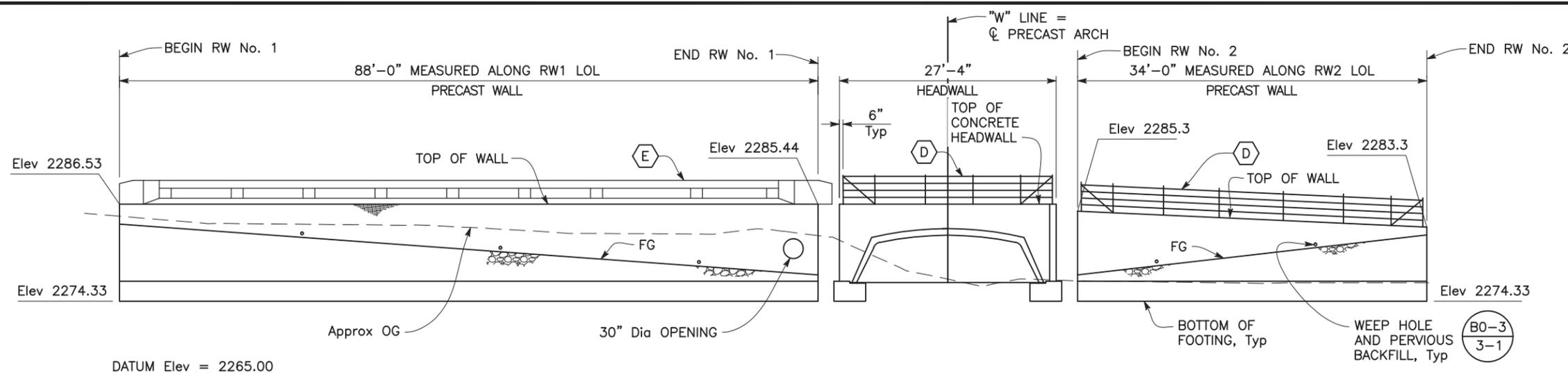
DESIGNED: BH
 DRAWN: EC
 CHECKED: EC
 DATE: 11/13/20
 ROAD NUMBER: 84



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

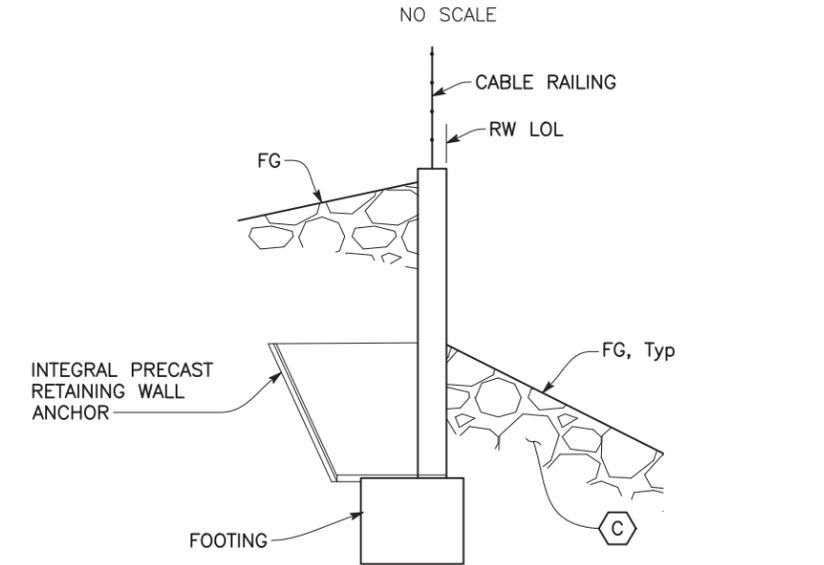
NEWTOWN ROAD AT SOUTH FORK
 WEBER CREEK BRIDGE REPLACEMENT
 FOUNDATION PLAN

SHEET
 ST-3
 26 OF 31
 W.O. No. 77122



RETAINING WALL NO. 1 AND NO. 2 - DEVELOPED ELEVATION

RW No. 1 PRECAST RETAINING WALL TYPICAL SECTION

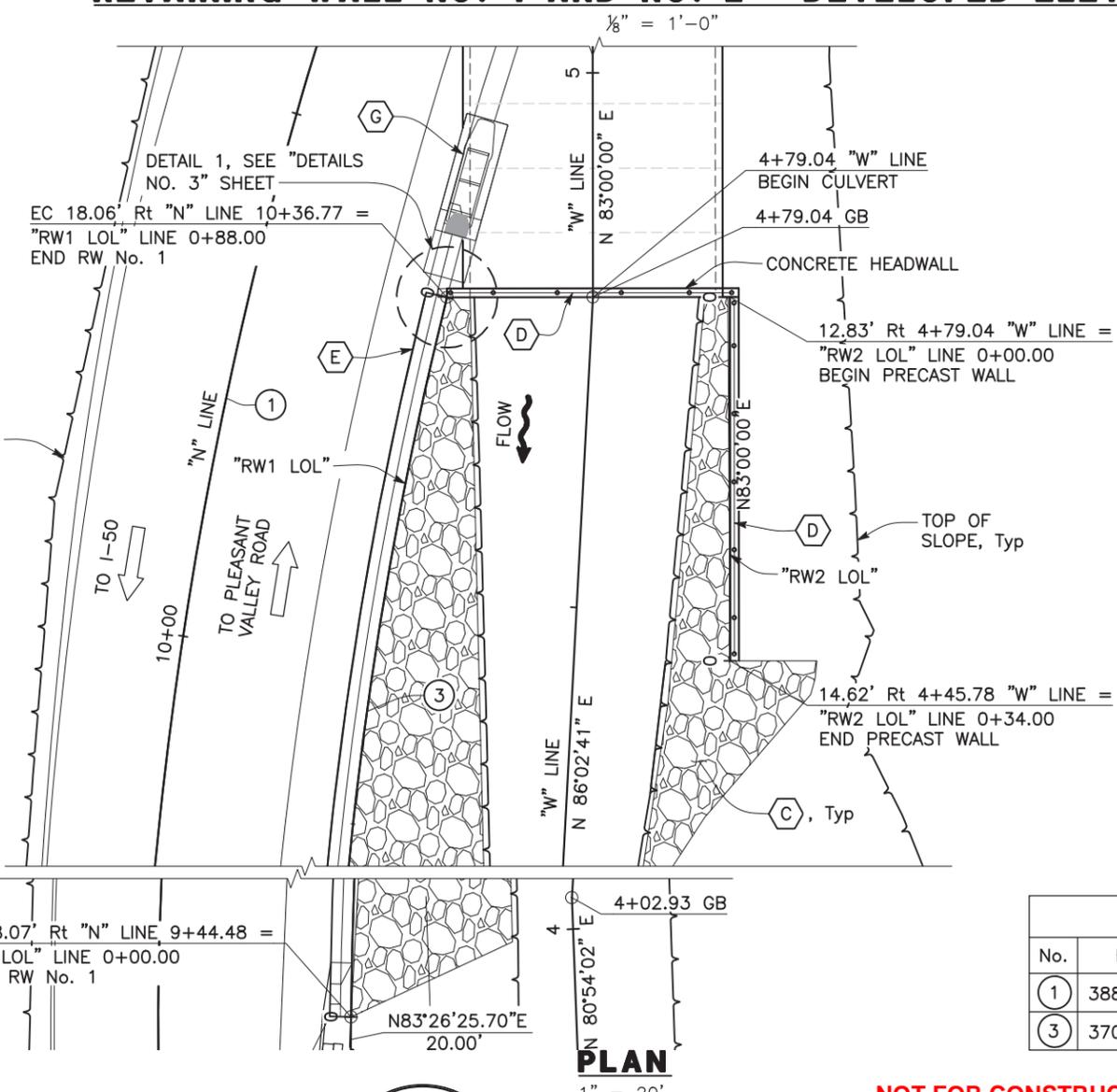


RW No. 2 PRECAST RETAINING WALL TYPICAL SECTION

- KEY NOTES:**
- (C) For Rock Slope Protection, see "ROAD PLANS"
 - (D) Cable Railing
 - (E) Concrete Barrier (Type 85)
 - (F) Crash Cushion, see "ROAD PLANS"

- LEGEND:**
- Indicates Direction of Water Flow
 - Indicates Direction of Traffic
 - Indicates New Structure

SCALE AS SHOWN



CURVE DATA				
No.	R	Δ	T	L
1	388.11'	30°17'04"	105.03'	205.14'
3	370.00'	13°37'38"	44.21'	88.00'

NOT FOR CONSTRUCTION

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 XX/XX/XX
 DATE:

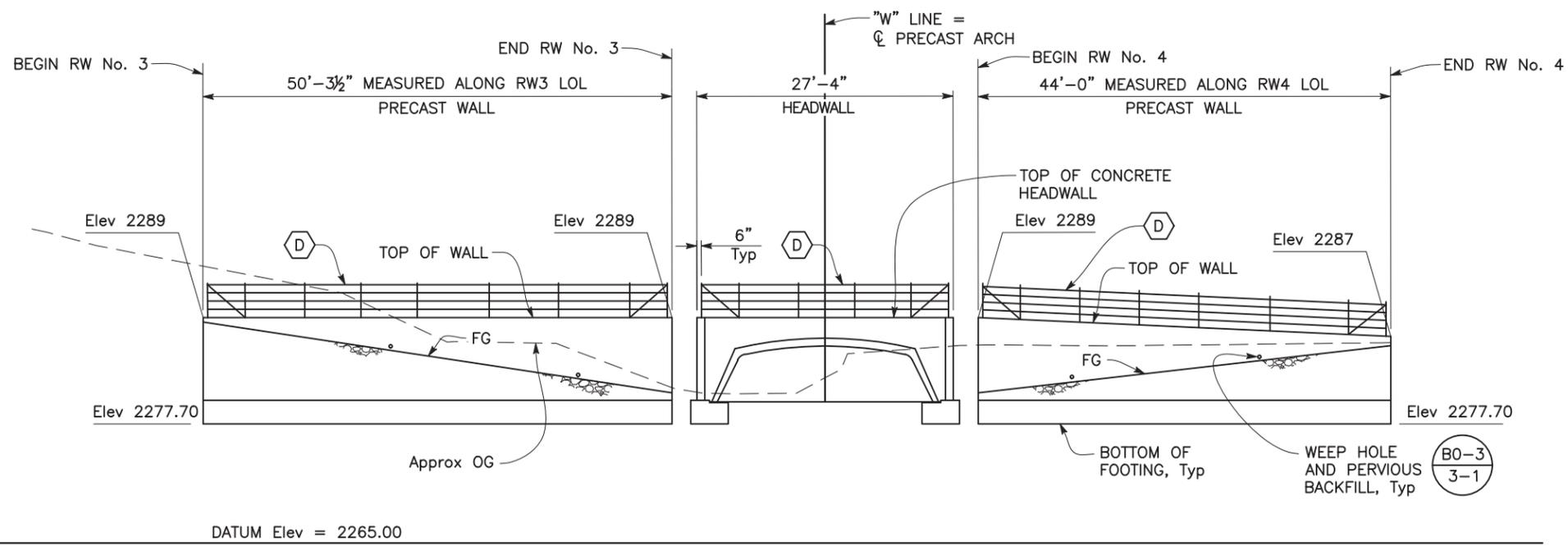
DESIGNED: BH
 DRAWN: EC
 CHECKED:
 DATE: 11/13/20
 ROAD NUMBER: 84



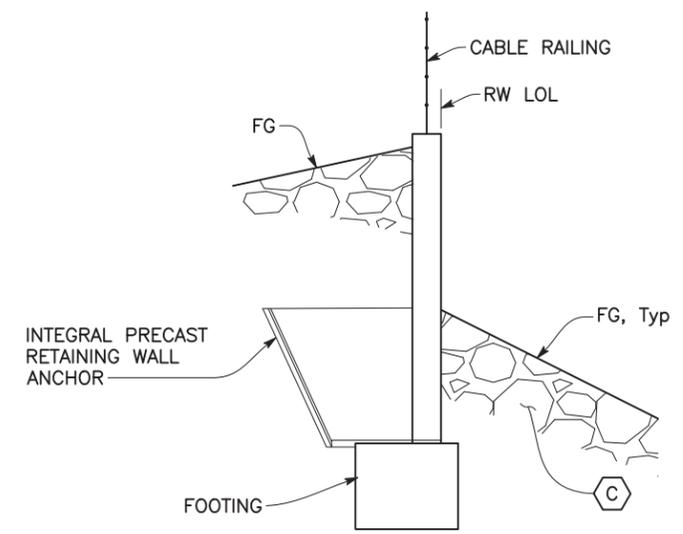
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT SOUTH FORK
 WEBER CREEK BRIDGE REPLACEMENT
 DETAILS NO. 1

SHEET
 ST-4
 27 OF 31
 W.O. No. 77122

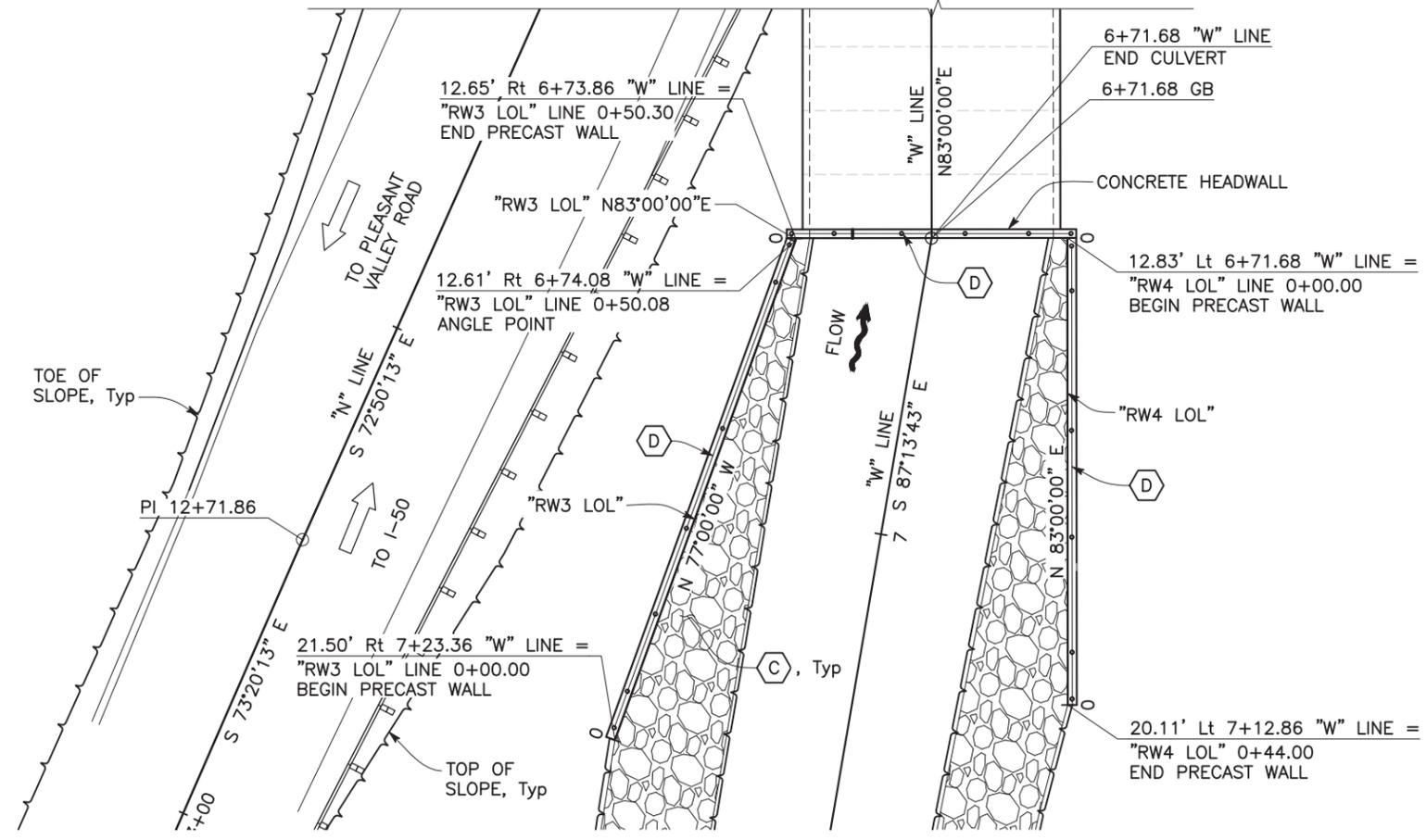


DATUM Elev = 2265.00



RETAINING WALL NO. 3 AND NO. 4 - DEVELOPED ELEVATION

1/8" = 1'-0"



PLAN

1" = 20'

NOT FOR CONSTRUCTION

RW No. 3 & 4 PRECAST RETAINING WALL TYPICAL SECTION

NO SCALE

KEY NOTES:

- For Rock Slope Protection, see "ROAD PLANS"
- Cable Railing

LEGEND:

- Indicates Direction of Water Flow
- Indicates Direction of Traffic
- Indicates New Structure

SCALE AS SHOWN

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 B. E. HANSEN
 No. C58976
 Exp. 06/30/25
 REGISTERED CIVIL ENGINEER
 STATE OF CALIFORNIA

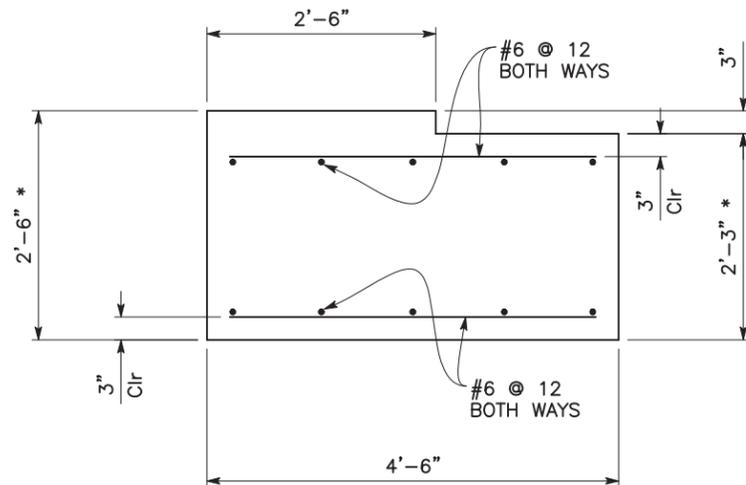
DESIGNED: BH
 DRAWN: EC
 CHECKED: EC
 DATE: 11/13/20
 ROAD NUMBER: 84



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

NEWTOWN ROAD AT SOUTH FORK
 WEBER CREEK BRIDGE REPLACEMENT
 DETAILS NO. 2

SHEET
 ST-5
 28 OF 31
 W.O. No. 77122

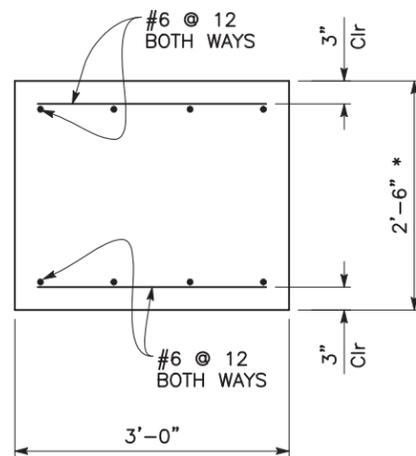


* If rock is encountered during excavation, dimension may be reduced over exposed rock. Minimum footing thickness must be 1'-6".

TYPICAL ARCH FOOTING

1" = 1'-0"

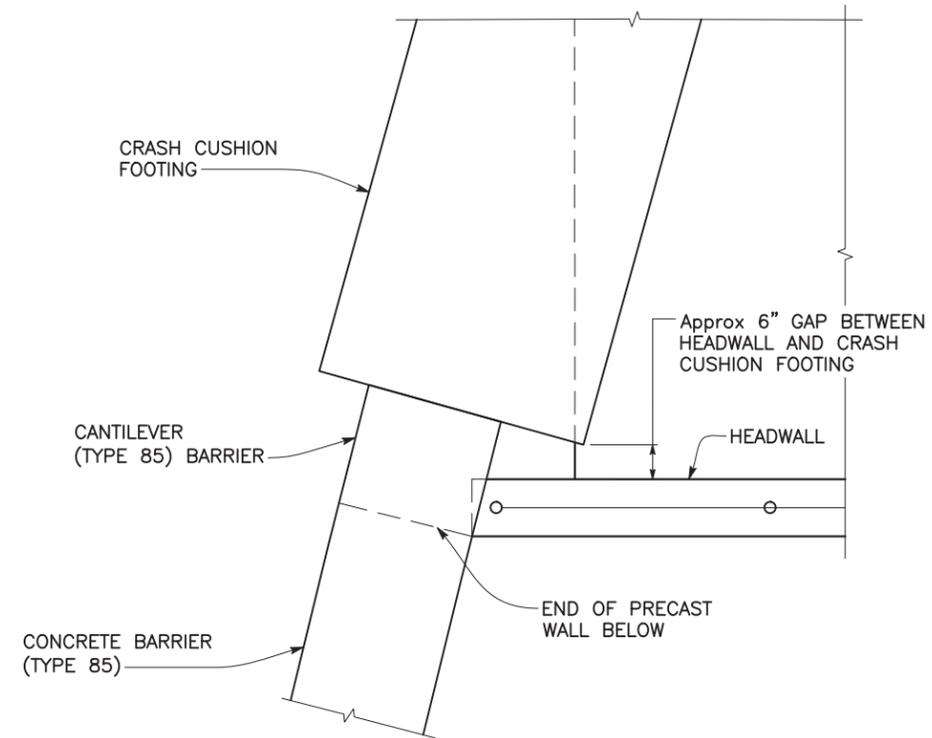
CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS FOR ARCH FOOTINGS THAT DIFFER FROM SHOWN



TYPICAL RETAINING WALL FOOTING

1" = 1'-0"

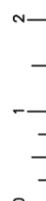
CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS FOR WINGWALL FOOTINGS THAT DIFFER FROM SHOWN



DETAIL 1

3/4" = 1'-0"

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



NOT FOR CONSTRUCTION

SCALE AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
 REGISTERED CIVIL ENGINEER
 DATE: XX/XX/XX

DESIGNED: BH
 DRAWN: EC
 CHECKED: EC
 DATE: 11/13/20
 ROAD NUMBER: 84

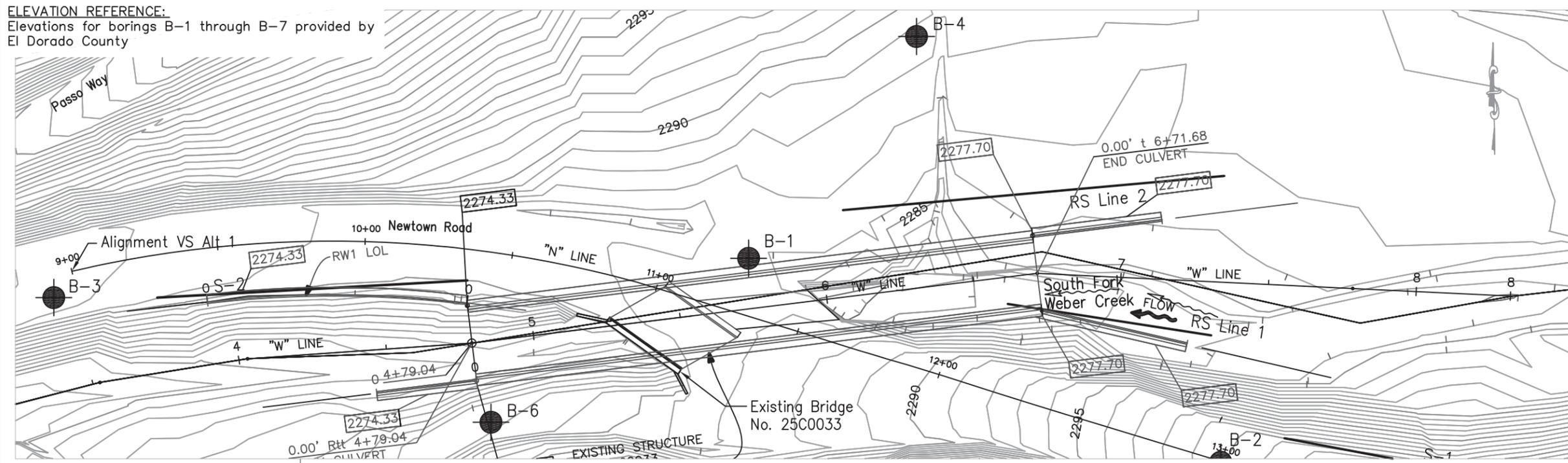


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

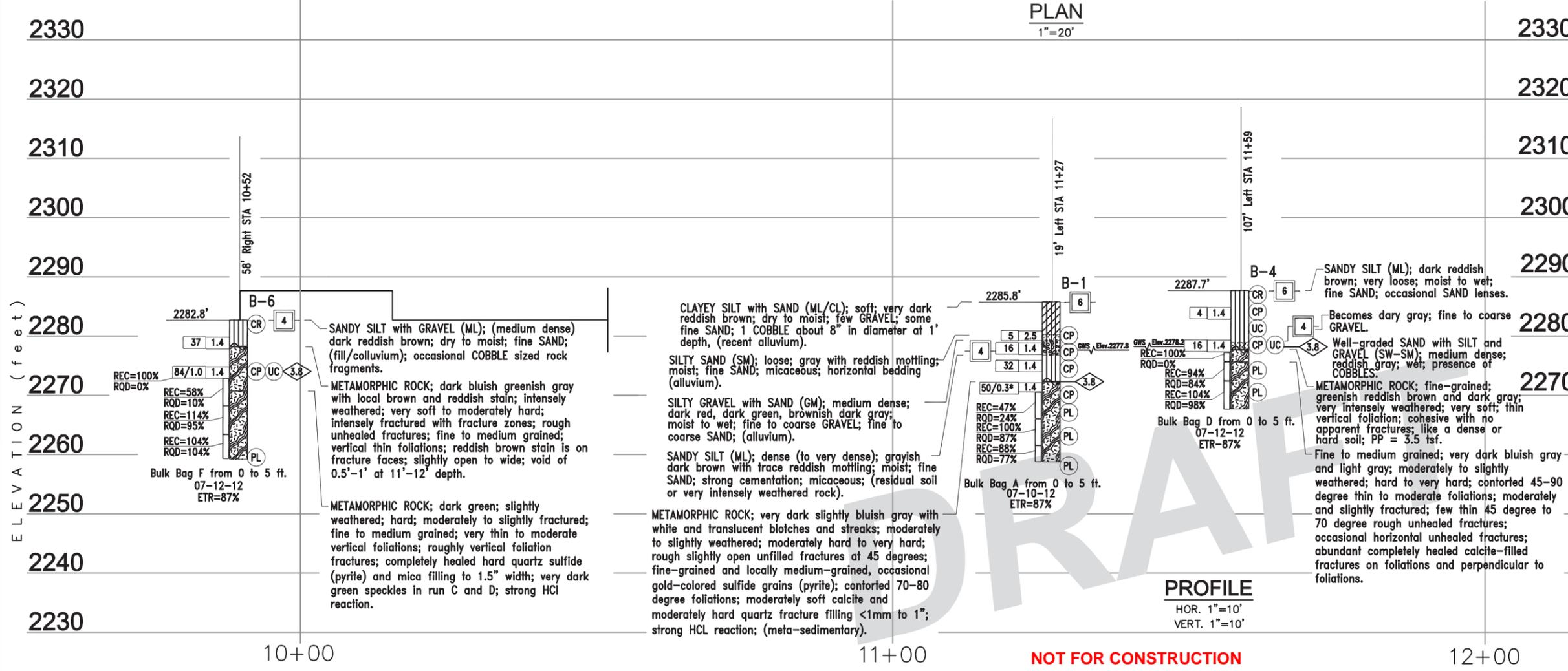
NEWTOWN ROAD AT SOUTH FORK
 WEBER CREEK BRIDGE REPLACEMENT
 DETAILS NO. 3

SHEET
 ST-6
 29 OF 31
 W.O. No. 77122

ELEVATION REFERENCE:
Elevations for borings B-1 through B-7 provided by El Dorado County



PLAN
1"=20'



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

NOT FOR CONSTRUCTION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	C.R.		30	31

CERTIFIED ENGINEERING GEOLOGIST DATE _____
 PLANS APPROVAL DATE _____
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



WRECO
7807 LAGUNA BLVD., SUITE 400
ELK GROVE, CA 95758 WRECO JOB NO: P20014
 DEWBERRY
11060 WHITE ROCK ROAD, SUITE 200
RANCHO CORDOVA, CA 95670

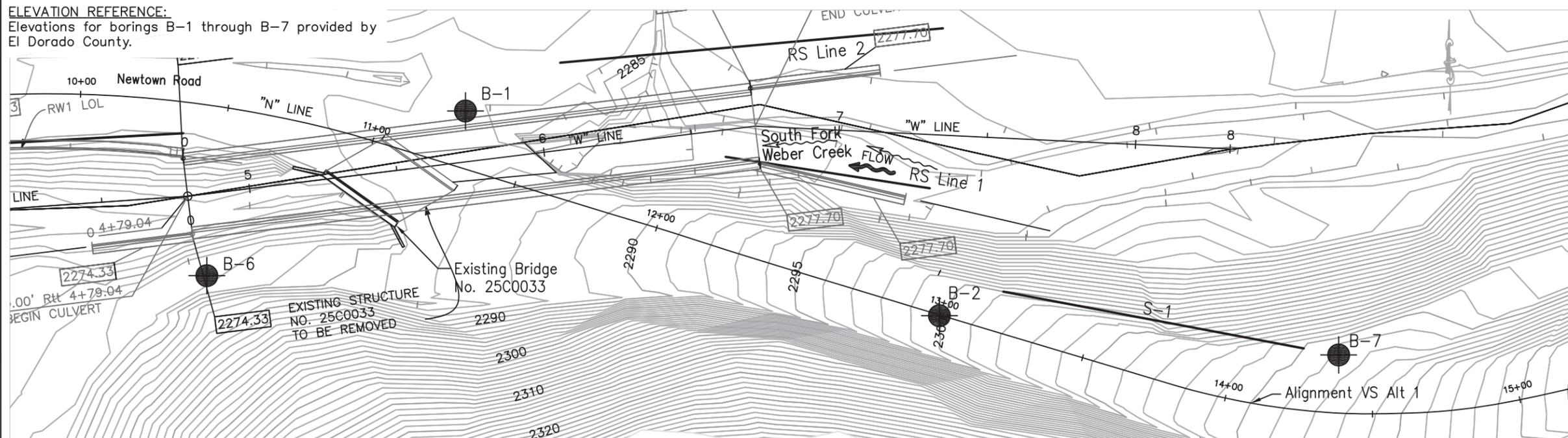
- Notes:**
- Field classification of soils was in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010 Edition).
 - Standard Penetration Tests (SPT) were performed in accordance with ASTM D 1586-99 using an automatic drop hammer system consisting of a hammer automated of a hammer weight 140 lbs. free falling a distance of 30" Autohammer energy ratio (ETR) measurements indicate an ETR=87% as of 06/18/2012. Drill rods were 1 5/8 inch diameter "A"-rods. Samplers were driven with brass liners.
 - "2.5 inch sampler:" ID=2.5 inches, OD=2.9 inches; "2.4 inch California Modified Sampler:" ID=2.4 inches, OD=3.0 inches. Driven in same manner as SPT ("1.4 inch") sampler.
 - Whole number blow counts ("N") represent the "standard penetration resistance" interval in accordance with ASTM D1586-11. Where less than 1 foot of penetration is achieved, the blow count shown is for that fraction of the "standard penetration resistance" interval actually penetrated. Where indicated by an asterisk (*) the number of blows shown is for only that fraction of the initial 0.5 ft "seating drive" interval penetration. Material characteristics shown in () where estimated.
 - The blow counts shown on the logs are the raw blow counts which have not been corrected for hammer energy, sample size, overburden, or any other correction factor. The apparent density of granular soil is on a corrected Standard Penetration Test N60 value.
 - Groundwater surface elevations in the borings indicated on the Log of Test Boring Sheet reflects the fluid level in the borings on the specified date. The groundwater surface elevation is subject to seasonal fluctuations and may occur at higher or lower elevations depending on the conditions at any particular time.
 - REC = Core Recovery (percent). RQD = Rock Quality Designation (percent).
 - Refraction seismic profiles were made using a sledge-hammer actuated, 21 channel, signal enhancement timer.
 - B-3 and B-5 are included on the Location of Field Test but excluded from this LOTB since they exceed beyond the area of interest. The field logs provided by Taber Consultants include all boring details.

7/14/2020 LOFT + LOTB 2021 design.dwg

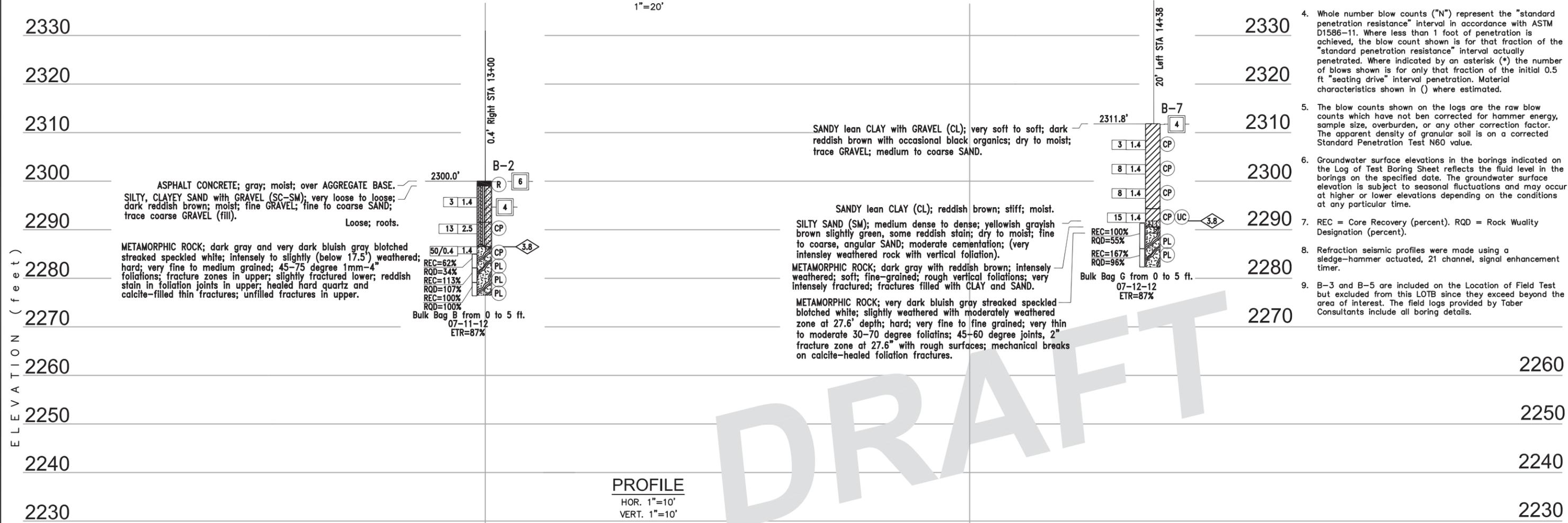
DATE PLOTTED => \$DATE USERNAME => \$USER

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		PREPARED FOR THE COUNTY OF EL DORADO ENGINEERING DEPARTMENT		BRIDGE NO. XXX-XXXX		S FK WEBER CR AT NEWTOWN RD BRIDGE REPLACEMENT	
FUNCTIONAL SUPERVISOR DAVID A. KITZMANN	DRAWN BY: M. WALLS	FIELD INVESTIGATION BY: T.C./Glen G. Wade, P.G.	DATE: 07-10-12	DAVID A. KITZMANN PROJECT ENGINEER		POST MILE XX.XX		LOG OF TEST BORINGS	
OCS CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU XXXXXX EA XXXXXX		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
				FILE => \$REQUEST				SHEET 30 OF 31	

ELEVATION REFERENCE:
Elevations for borings B-1 through B-7 provided by
El Dorado County.



PLAN
1"=20'



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

DRAFT

NOT FOR CONSTRUCTION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	ED	C.R.		31	31

CERTIFIED ENGINEERING GEOLOGIST DATE _____
PLANS APPROVAL DATE _____
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WRECO
7807 LAGUNA BLVD., SUITE 400
ELK GROVE, CA 95758 WRECO JOB NO: P20014

DEWBERRY
11060 WHITE ROCK ROAD, SUITE 200
RANCHO CORDOVA, CA 95670

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 - The blow counts shown on the logs are the raw blow counts which have not been corrected for hammer energy, sample size, overburden, or any other correction factor. The apparent density of granular soil is on a corrected Standard Penetration Test N60 value.
 - Groundwater surface elevations in the borings indicated on the Log of Test Boring Sheet reflects the fluid level in the borings on the specified date. The groundwater surface elevation is subject to seasonal fluctuations and may occur at higher or lower elevations depending on the conditions at any particular time.
 - REC = Core Recovery (percent). RQD = Rock Quality Designation (percent).
 - Refraction seismic profiles were made using a sledge-hammer actuated, 21 channel, signal enhancement timer.
 - B-3 and B-5 are included on the Location of Field Test but excluded from this LOTB since they exceed beyond the area of interest. The field logs provided by Taber Consultants include all boring details.

7/14/2020 LOFT + LOTB 2021 design.dwg

DATE PLOTTED => \$DATE USERNAME => \$USER

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		PREPARED FOR THE COUNTY OF EL DORADO ENGINEERING DEPARTMENT		BRIDGE NO. XXX-XXXX		S FK WEBER CR AT NEWTOWN RD BRIDGE REPLACEMENT	
FUNCTIONAL SUPERVISOR DAVID A. KITZMANN		DRAWN BY: M. WALLS CHECKED BY: F.P.T.		FIELD INVESTIGATION BY: T.C./Glen G. Wade, P.G. DATE: 07-10-12		PROJECT ENGINEER DAVID A. KITZMANN			
OGS CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU XXXXXX EA XXXXXX		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
				0 1 2 3				SHEET 31 OF 31	