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STACY LYNN WEAVER

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TENNESSEE DEPARTMENT OF TRANSPORTATION
7345 REGION LANE

KNOXVILLE, TN 37914
STACY L. WEAVER, P.E. NO. 111922

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN3
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
TABULATED QUANTITIES	2F
PROPOSED LAYOUT	4B
PROPOSED PROFILE	4C
ROADWAY CROSS SECTIONS	11 - 89

YEAR	PROJECT NO.	SHEET NO.
2026	ER-STP-34(146)	ROADWAY-SIGN3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
SIGNATURE SHEET	ROADWAY-SIGN2
SIGNATURE SHEET	ROADWAY-SIGN3
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD TRAFFIC DESIGN DRAWINGS	1A3
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
GENERAL NOTES	2C
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E
TABULATED QUANTITIES	2F
RIGHT-OF-WAY NOTES, UTILITY NOTES, AND UTILITY OWNERS	3
RIGHT-OF-WAY ACQUISITION TABLE	3A
PROPERTY MAP	3B
PRESENT LAYOUT	4
RIGHT-OF-WAY DETAILS	4A
PROPOSED LAYOUT	4B
PROPOSED PROFILE	4C
DRAINAGE MAP	5
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	6, 7, 8 - 10
ROADWAY CROSS SECTIONS	11 – 89
TRAFFIC CONTROL PLANS	T1 – T6
RETAINING WALL PLANS	R-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)	S-1

NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN THE NUMBERING OF SHEETS.

NO UTILITY SHEETS ARE INCLUDED IN THIS PLAN SET

STANDARD ROADWAY DRAWINGS

STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS

DWG.	REV.	DESCRIPTION
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	01-30-26	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL

STANDARDS ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
RD18-TS-5A	01-30-26	RURAL MINOR ARTERIAL (2-3 LANE)
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD11-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS

SAFETY DESIGN AND GUARDRAILS

DWG.	REV.	DESCRIPTION
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS
S-PL-6	04-30-26	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-PL-7	04-30-26	SAFETY PLAN HARDWARE PLACEMENT AT INTERSECTIONS
S-GR31-1	10-31-25	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GRS-7A	07-30-24	SHORT RADIUS-GUARDRAIL SYSTEM (SRGS) ANCHOR DETAILS
S-GRS-7B		SHORT RADIUS-GR SYSTEM (SRGS) EYE-BOLT SPACING DETAILS
S-GRS-7C		SHORT – RADIUS GUARDRAIL SYSTEM (SRGS) TO GUARDRAIL CONNECTION
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRT-3	06-28-19	TYPE 21 GUARDRAIL END TERMINAL

EROSION PREVENTION AND SEDIMENT CONTROL

DWG.	REV.	DESCRIPTION
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-57	04-01-08	GABION ASSEMBLY DETAILS
EC-STR-58	04-01-08	GABION ASSEMBLY DETAILS
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	1A

REV. 08/18/26 : ADDED ROADWAY-SIGN2 TO ROADWAY INDEX.

REV. 09/23/26 : ADDED ROADWAY-SIGN3 AND R-1 TO ROADWAY INDEX.

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
No. 111923
STATE OF TENNESSEE

9/24/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	2

REV. 08/18/26 : REVISED ITEM NUMBERS 105-01, 201-01, 712-01, AND 717-01. ADDED FOOTNOTES 12 AND 13.

REV. 09/23/26 : REVISED QUANTITIES FOR ITEM NOS. 203-01, 203-02.01, AND 740-10.04.

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 46S034-F3-006
(12)(13)	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	0.4
(12)(13)	201-01	CLEARING AND GRUBBING	LS	0.4
(1)(8)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	9222
	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	23131
	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	305
	208-01.05	BROOMING & DEGRASSING SHOULDERS	L.M.	0.3
(7)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	384
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	2
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	249
	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	247
	705-06.02	W BEAM GR (TYPE 2) MASH TL3 (LONG POST)	L.F.	704
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	1
	705-06.30	GR TERMINAL (ENERGY ABSORBING) MASH TL2	EACH	1
	705-06.44	SHORT-RADIUS GR SYSTEM TO GR CONN (24FT RADIUS) MASH TL-3	EACH	1
	706-01	GUARDRAIL REMOVED	L.F.	64
(2)(7)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	150
(6)	709-10.01	GABIONS (FROM STATION 139+70.00 TO 145+20.00)	C.Y.	1854
(12)(13)	712-01	TRAFFIC CONTROL	LS	0.4
	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	900
(5)	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	3
(11)	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	76
	712-04.50	BARRIER RAIL DELINEATOR	EACH	42
(11)	712-05.01	WARNING LIGHTS (TYPE A)	EACH	38
(9)(11)	712-06	SIGNS (CONSTRUCTION)	S.F.	322
	712-08.03	ARROW BOARD (TYPE C)	EACH	1
	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	50
	712-09.08	REMOVABLE PAVEMENT MARKING (6" line)	L.F.	4805
	712-09.30	REMOVABLE BLACK-OUT TAPE (6")	L.F.	4253
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	1
(10)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	35
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	0.6
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	0.6
(12)(13)	717-01	MOBILIZATION	LS	0.4
(2)(7)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	258
	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	5100
(3)	801-02	SEEDING (WITHOUT MULCH)	UNIT	16
(4)	801-03	WATER (SEEDING & SODDING)	M.G.	2
(7)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	1830

FOOTNOTES

(1) INCLUDES 21 CY FOR THE TEMPORARY CONSTRUCTION EXITS.

(2) FOR USE WITH THE TEMPORARY CONSTRUCTION EXIT.

(3) THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

(4) INCLUDES 2 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(5) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.

(6) INCLUDES 50 CY OF 15 FT X 15 FT GABION BASKET, 1784 CY OF 12 FT X 12 FT GABION BASKET, AND 20 CY OF 9 FT x 9 FT GABION BASKET.

(7) EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES MAY BE INCREASED OR DECREASED BY THE T.D.O.T. MANAGER. SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE AND REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

(8) SEE GRADING SPECIAL NOTES ON SHEET 2D.

(9) FOR PLACEMENT OF CONSTRUCTION SIGNS SEE TRAFFIC CONTROL SHEETS.

(10) CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.

(11) QUANTITIES MAY BE INCREASED OR DECREASED BY THE T.D.O.T. MANAGER.

(12) TO BE BRACKETED WITH:
JOHNSON CO. S.R. 167
PIN 135866.66

(13) TO BE BRACKETED WITH:
JOHNSON CO. S.R. 167
PIN 135866.67

SEALED BY

STACY L. WEAVER REGISTERED ENGINEER STATE OF TENNESSEE DEPARTMENT OF AGRICULTURE COMMERCE N. 111933

9/24/26

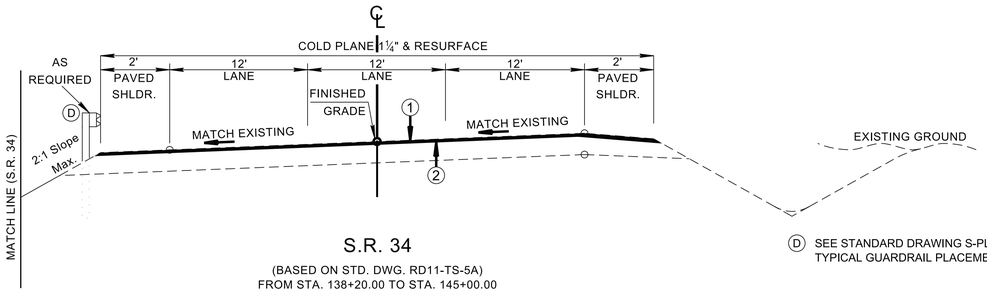
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	2B

REV. 09/23/26 : REMOVED ROCK FILL UNDERNEATH GABION WALL.



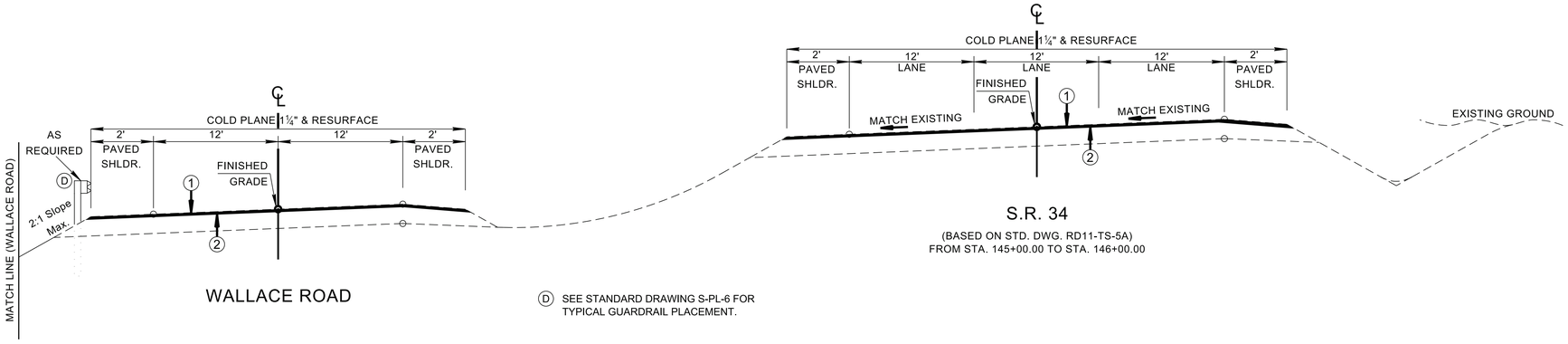
S.R. 34

(BASED ON STD. DWG. RD11-TS-5A)
FROM STA. 138+20.00 TO STA. 145+00.00

Ⓓ SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.

PROPOSED PAVEMENT SCHEDULE

①	ASPHALTIC CONCRETE SURFACE (HM) 1¼" TH. (APPROX. 132.5 LBS/SY) ITEM NO. 411-02.10 ACS MIX (PG70-22) GRADING D
②	TACK COAT (TC) ITEM NO. 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) SEE D.G. 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD.
	COLD PLANING 1¼" TH. (APPROX. 131.3 LBS/SY) ITEM NO. 415-01.01 COLD PLANING BITUMINOUS PAVEMENT

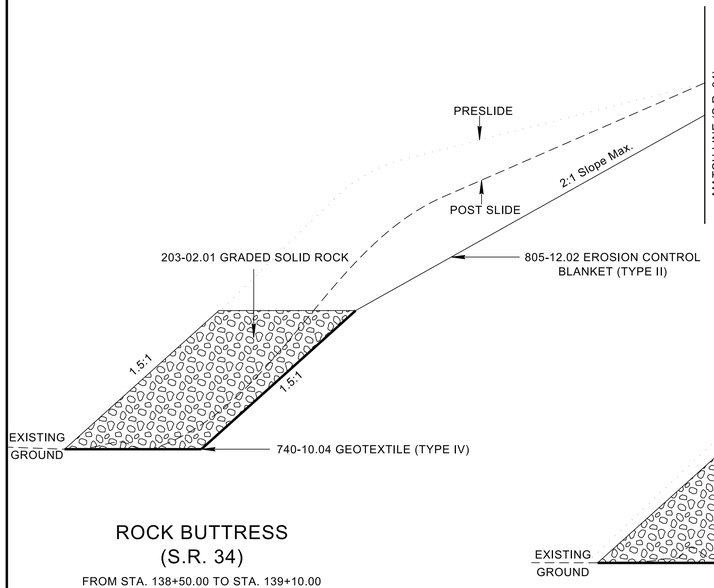


WALLACE ROAD

Ⓓ SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT.

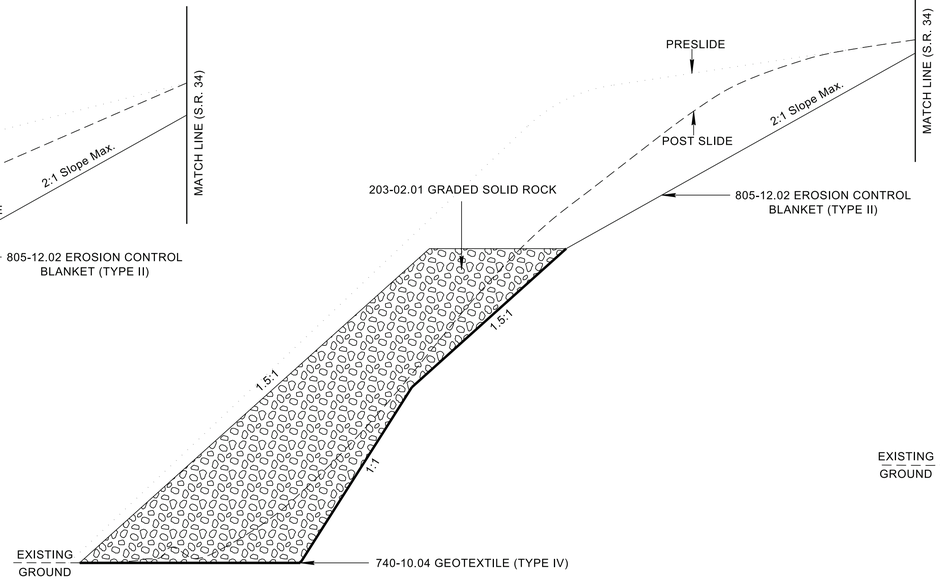
S.R. 34

(BASED ON STD. DWG. RD11-TS-5A)
FROM STA. 145+00.00 TO STA. 146+00.00



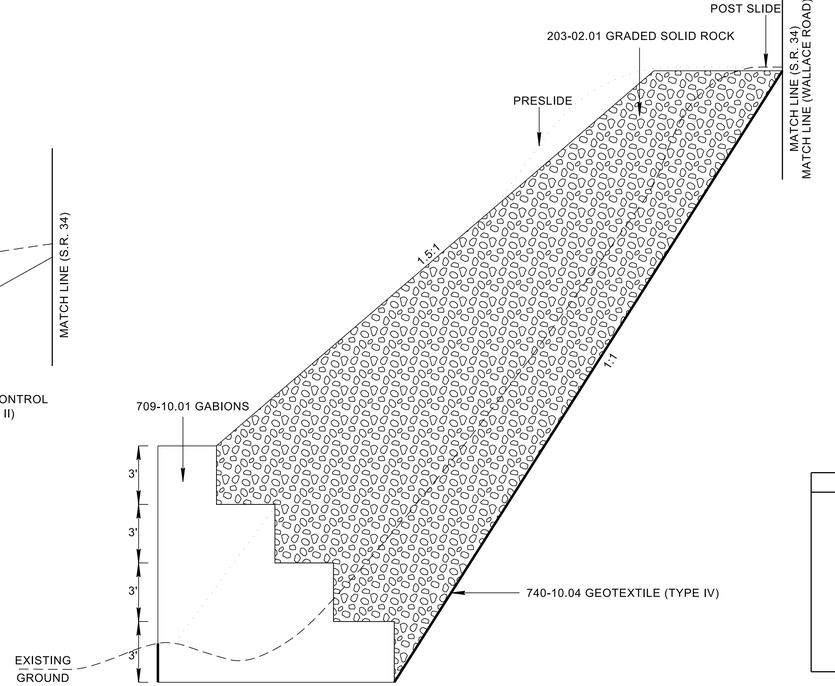
ROCK BUTTRESS
(S.R. 34)

FROM STA. 138+50.00 TO STA. 139+10.00



ROCK BUTTRESS
(S.R. 34)

FROM STA. 139+10.00 TO STA. 139+70.00



ROCK BUTTRESS
(S.R. 34)

FROM STA. 139+70.00 TO STA. 145+20.00

SEE ROADWAY CROSS SECTIONS FOR DETAILS ON THE GRADED SOLID ROCK BUTTRESS AND GABION BASKET.

SEALED BY

STACY L. WEAVER
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No. 111928
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
COMMERCE

9/24/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
MAINLINE	9201	0	8741
SIDE ROADS	0	0	
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	0	0	
INDEPENDENT DITCHES	0	0	
TEMPORARY CONSTRUCTION EXITS	21	0	20
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0	
TOPSOIL (EMB.)	0		
TOPSOIL (EXC.)	0		
TOPSOIL TOTALS (SEE TOPSOIL TABLE)			

ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	9222	0	9222	9222	8761

BALANCE SUMMARY

SHRINK = 5 % SWELL = 5 %

EXC.		EMB.
8761	VS.	0
AVAILABLE	=	8761
WASTE MATERIAL	=	9200

NOTE: THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SATISFACTORY DISPOSAL OF 9200 C.Y. OF EXCESS MATERIAL.

IF EXISTING TOPSOIL IS NOT SUITABLE FOR REUSE

PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.
16470	N/A	N/A	N/A	305	N/A	305	N/A

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	2F

REV. 09/23/26 : REVISED ESTIMATED GRADING QUANTITIES TABULATION AND EXCESS MATERIAL NOTE.

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE		STATIONS		GUARDRAIL								TERMINAL ANCHORS					GUARDRAIL FOOTING		CABLE BARRIER		REMARKS
						THRIE BEAM BRIDGE TRAN. MASH TL-3 (20.65') 705-06.25 EACH	METAL BEAM GUARD FENCE 705-01.04 (L.F.)	THRIE BEAM BRIDGE TRAN. MASH TL-2 (20.65') 705-06.26 EACH	MEDIAN DIVIDER WITH RUB-RAIL (TYPE 2) 705-03.01 (L.F.)	MEDIAN DIVIDER AT CONC. BARRIER (26.896') 705-03.04 (L.F.)	W BEAM GR (TYPE 2) MASH TL3 705-06.02 (L.F.)	SHORT-RAD. GR SYSTEM (24.00') 705-06.44 (EACH)	ROUND END ELEMENT 706-10.26 (EACH)	GUARDRAIL REOMOVED 706-01 (L.F.)	TYPE 12 VARIES 705-04.02 (EACH)	TYPE 13 MASH TL3 (9.375') 705-06.10 (EACH)	IN-LINE MASH TL3 705-06.11 (EACH)	TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)	TYPE 21 MASH TL2 (21.875') 705-06.30 (EACH)	CLASS A CONCRETE (ROADWAY) 604-01.01 (C.Y.)	STEEL BAR REINF. (ROADWAY) 604-01.02 (LB.)	LONG-ITUDINAL 705-80.01 (L.F.)	TERMINAL 705-80.18 (EACH)	
		LT	RT	FROM	TO																		
4B	SR 34	X		138+23.12	146+00.00						704	1						1	1					
TOTALS											704	1						1	1					

SEALED BY

STACY L. WEAVER REGISTERED ENGINEER AGRICULTURE COMMERCE 111923 STATE OF TENNESSEE

9/24/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 1 OF 1

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	4B

REV. 08/18/26 : REMOVED R.O.W. PROJECT LIMIT FLAGS.

REV. 09/23/26 : ADDED GABION WALL ALIGNMENT AND BEGIN/END STATION LABELS.

NOTE: PROPERTY LINE LOCATIONS ARE APPROXIMATED.

46S034-F3-006
BEGIN PROJ. NO. ER-STP-34(146)
STA. 138+20.00 (CONST.)
N 774707.9840
E 3216943.6616

46S034-F3-006
END PROJ. NO. ER-STP-34(146)
STA. 146+00.00 (CONST.)
N 773928.2026
E 3216962.1268

140

145

WALLACE RD. (ASPH.)

STR-1

TYPE 38
STA. 138+23.12
OFFSET 21.29' LT.

BEGIN IMPACT STR-1
STA. 138+47.89
OFFSET 126.24' LT.
BEGIN PROP. BUTTRESS
STA. 138+50.00
END IMPACT
STA. 138+86.46
BEGIN IMPACT
STA. 139+26.73
END IMPACT
STA. 139+32.09
BEGIN IMPACT
STA. 139+56.02
END IMPACT
STA. 139+66.15
BEGIN GABION WALL
STA. 139+70.00

PROP. ROW
PRES & PROP. ROW
PRES ROW

ROAN CREEK
STR-1

BEGIN IMPACT
STA. 143+58.69
END IMPACT
STA. 143+61.79
BEGIN IMPACT
STA. 143+76.23
END IMPACT
STA. 144+05.64
BEGIN IMPACT
STA. 144+42.66
END GABION WALL
STA. 145+24.00
END PROP. BUTTRESS
STA. 145+40.00
END IMPACT STR-1
STA. 145+40.00
OFFSET 103.86 LT.

TYPE 21
STA. 146+00.00
OFFSET 66.86' LT.

LIMIT OF CONST.
STA. 201+90.25

WALLACE RD.
STA. 202+00.00
N 773947.5210
E 3217021.5644

ROAN CREEK

WOODEN POST

UNDER GROUND (TELE,PED) FIBER

WALLACE RD. (ASPH.)

SR. 34
STA. 135+90.00
N 774937.9051
E 3216947.0093

34

P/C

6" DSYL
6" SSWL
6" SBWL

S 1° 21' 24" E

S.R. 34 / HWY. 421 (ASPH.)

S.R. 34 / HWY. 421

STA. 145+25.50 SR. 34 =
STA. 200+80.00 WALLACE RD.
N 774002.6908
E 3216960.3629

SR. 34
STA. 147+08.00
N 773820.2328
E 3216964.6836

PRES & PROP. ROW
PRES ROW
100' CONST. EASEMENT

GRADED SOLID ROCK FOR BANK STABILIZATION					
	STATION RANGE		*LENGTH	**AREA	**VOLUME
IMPACT LOCATION	BEGIN	END	(LF)	(SF)	(CY)
SR 34 EAST SIDE	138+47.89	145+40.00	192.20	1881	262

* LENGTH IS MEASURED ALONG THE TOP OF BANK FOR IMPACT LOCATIONS.
** AREA AND VOLUME ARE THAT PORTION OF IMPACT UNDER THE ORDINARY HIGH WATER MARK.

NOTE:
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF ROAN CREEK (STR-1) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

PERMANENT STABILIZATION WITH NATIVE OR NATURALIZED PERENNIAL VEGETATION IS REQUIRED IN ALL AREAS AUTHORIZED FOR TEMPORARY AND PERMANENT IMPACTS TO STREAMS AND RIPARIAN AREAS, INCLUDING ADJACENT BUFFER ZONES WITHIN 60 FT OF THE EDGE OF WATER. THE APPROPRIATE SEED MIXTURE FOR THE REGION AND SITE CONDITIONS SHALL BE SELECTED FROM TABLE 7.9-1 (PREFERRED SEED MIXES USING NATIVES OR NATURALIZED PLANTS AND PLANTING DATES) FOUND IN CHAPTER 7.9 (PERMANENT VEGETATION) OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK 4TH EDITION.

RIPRAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIPRAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIPRAP SHALL BE FILLED WITH STREAM BED SUBSTRATE, IF AVAILABLE, TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. STREAM BED SUBSTRATE CAN BE REMOVED FROM RIP-RAP EMBEDMENT AREA. IF STREAM BED SUBSTRATE IS NOT AVAILABLE, THE FOLLOWING SHOULD BE USED. PRIOR TO PLACEMENT OF RIPRAP, IT SHOULD BE MIXED WITH A MIXTURE OF 70 % CREEK GRAVEL AND 30 % SAND TO FILL THE VOIDS. ONCE THE RIP-RAP MIXTURE HAS BEEN INSTALLED THE AREA SHOULD BE THOROUGHLY COMPACTED. ONCE COMPACTED AN ADDITIONAL 1 -2 INCHES OF SAND AND CREEK GRAVEL SHALL BE ADDED TO FILL IN THE REMAINING VOIDS IF NEEDED. THE CONTRACTOR SHALL ENSURE THAT WATER WILL FLOW OVER THE RIPRAP AND THAT FLOW IS NOT LOST BELOW OR WITHIN THE ROCK.

GABION WALL

GSR BUTTRESS

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 111983
STATE OF TENNESSEE

9/24/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00012 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.138+20 TO STA.146+00
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	4C

REV. 08/18/26 : REMOVED R.O.W. PROJECT LIMIT FLAGS.

REV. 09/23/26 : ADDED GABION WALL PROFILE.

NOTE: THE PROPOSED PROFILE IS FOR REFERENCE ONLY.

46S034-F3-006
END PROJ. NO. ER-STP-34(146)
STA. 146+00.00 (CONST.)
N 773928.2026
E 3216962.1268

46S034-F3-006
BEGIN PROJ. NO. ER-STP-34(146)
STA. 138+20.00 (CONST.)
N 774707.9840
E 3216943.6616

EXISTING GROUND

STA. 145+25.50 SR. 34=
STA. 200+80.00 WALLACE RD.
N 774002.6908
E 3216960.3629

STA. 139+70.00 SR. 34=
STA. 0+00.00 GABION WALL
N 774560.4526
E 3217049.6835

TOP WALL EL.

STA. 145+20.00 SR. 34=
STA. 5+72.11 GABION WALL
N 774010.7843
E 3217070.2021

NOTE: REFER TO R-1A FOR GABION WALL INFORMATION.

2925 2920 2915 2910 2905 2900 2895 2890 2885 2880 2875 2870 2865 2860 2855 2850 2845 2840 2835

135+50 136+00 137+00 138+00 139+00 140+00 141+00 142+00 143+00 144+00 145+00 146+00 147+00

SEALED BY

STACY L. WEAVER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 111923
STATE OF TENNESSEE

9/24/26

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00012 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA.138+20 TO STA.146+00

SCALE: 1"= 50' HORIZ.
1"=5 ' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	11

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.

2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840
2830
2820

PROP. R.O.W.
OFFSET -150.00

PRES. R.O.W.
OFFSET -108.87

PRESLIDE

POST SLIDE

FG EL. 2865.97

BEGIN CONSTRUCTION
STA. 138+20.00

138+20.00

CUT 0 SF
CUT 0 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 0 SF
ROCK FILL 0 CY

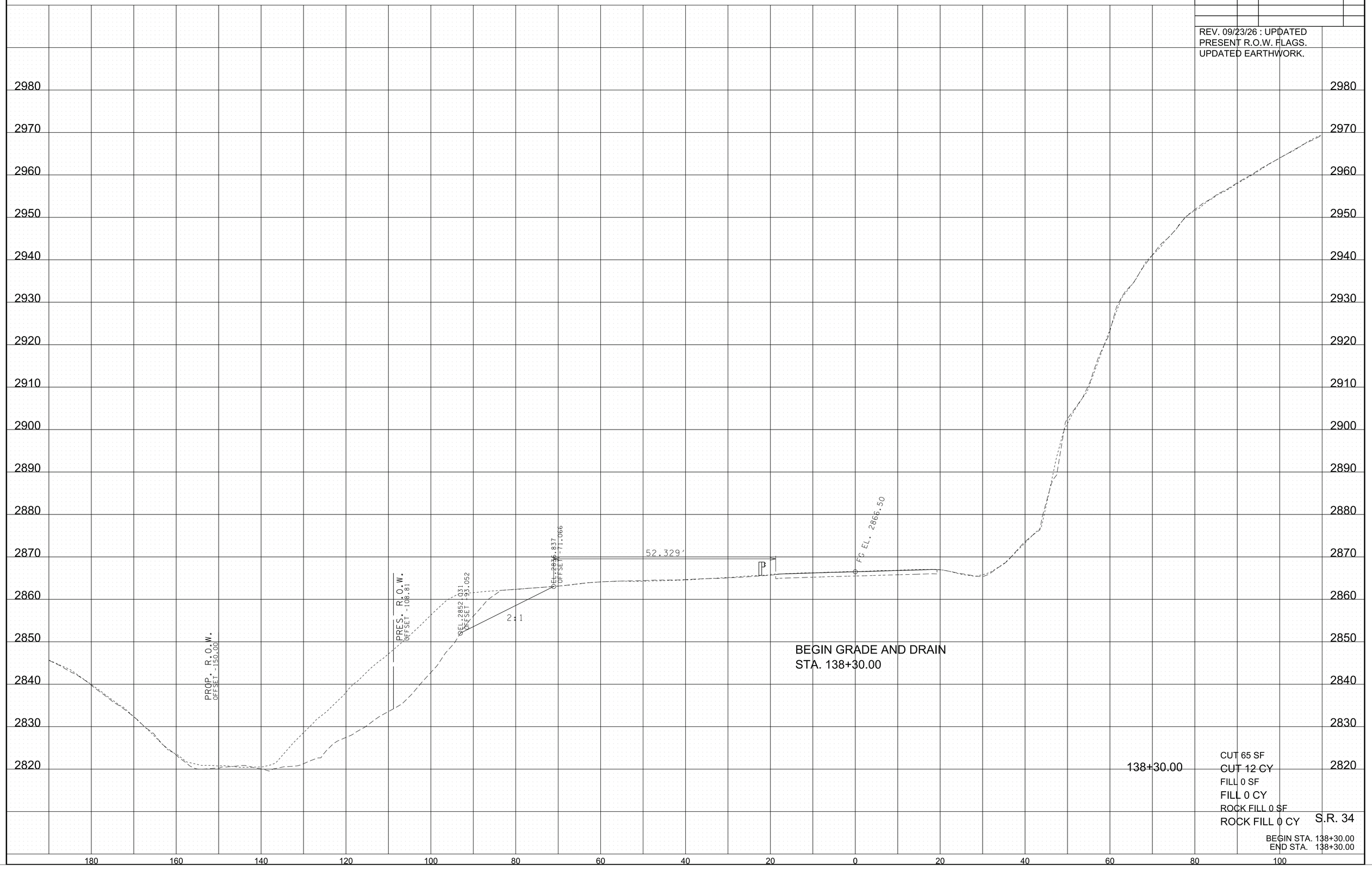
S.R. 34
BEGIN STA. 138+20.00
END STA. 138+20.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	12

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



138+30.00

CUT 65 SF
CUT 12 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 0 SF
ROCK FILL 0 CY

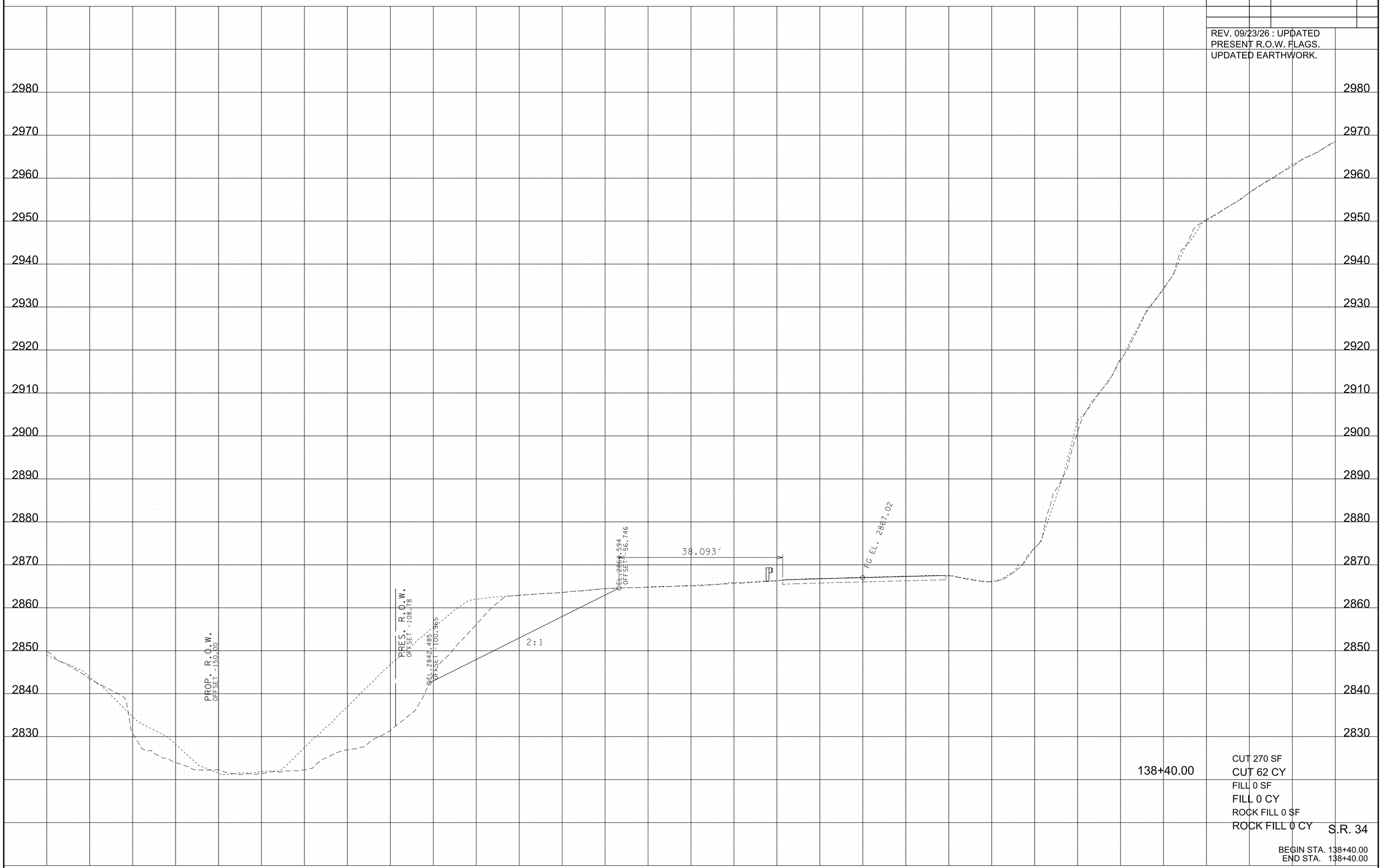
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	13

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



138+40.00

CUT 270 SF
CUT 62 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 0 SF
ROCK FILL 0 CY

S.R. 34

BEGIN STA. 138+40.00
END STA. 138+40.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	14

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.

2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840
2830
2820

PROP. R.O.W.
OFFSET -150.00

PRES. R.O.W.
OFFSET -108.78

EL. 2823.383
OFFSET -132.988

1.5:1

1.5:1

10'

2:1

EL. 2865.559
OFFSET -43.636

25.145'

FG EL. 2867.54

BEGIN PROP. BUTTRESS
STA. 138+50.00

138+50.00

CUT 518 SF
CUT 146 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 114 SF
ROCK FILL 21 CY

S.R. 34

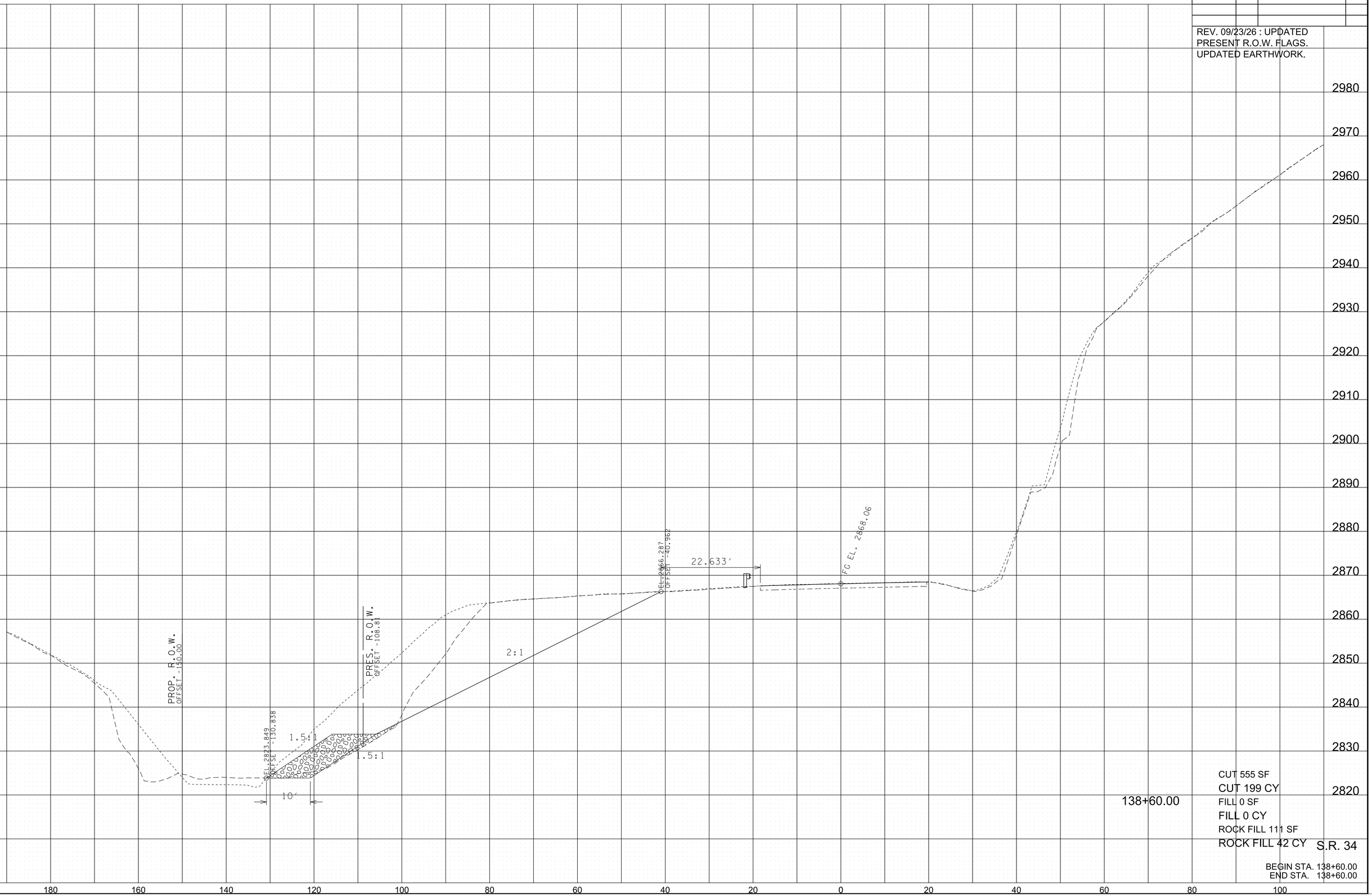
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	15

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



138+60.00

CUT 555 SF
CUT 199 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 111 SF
ROCK FILL 42 CY

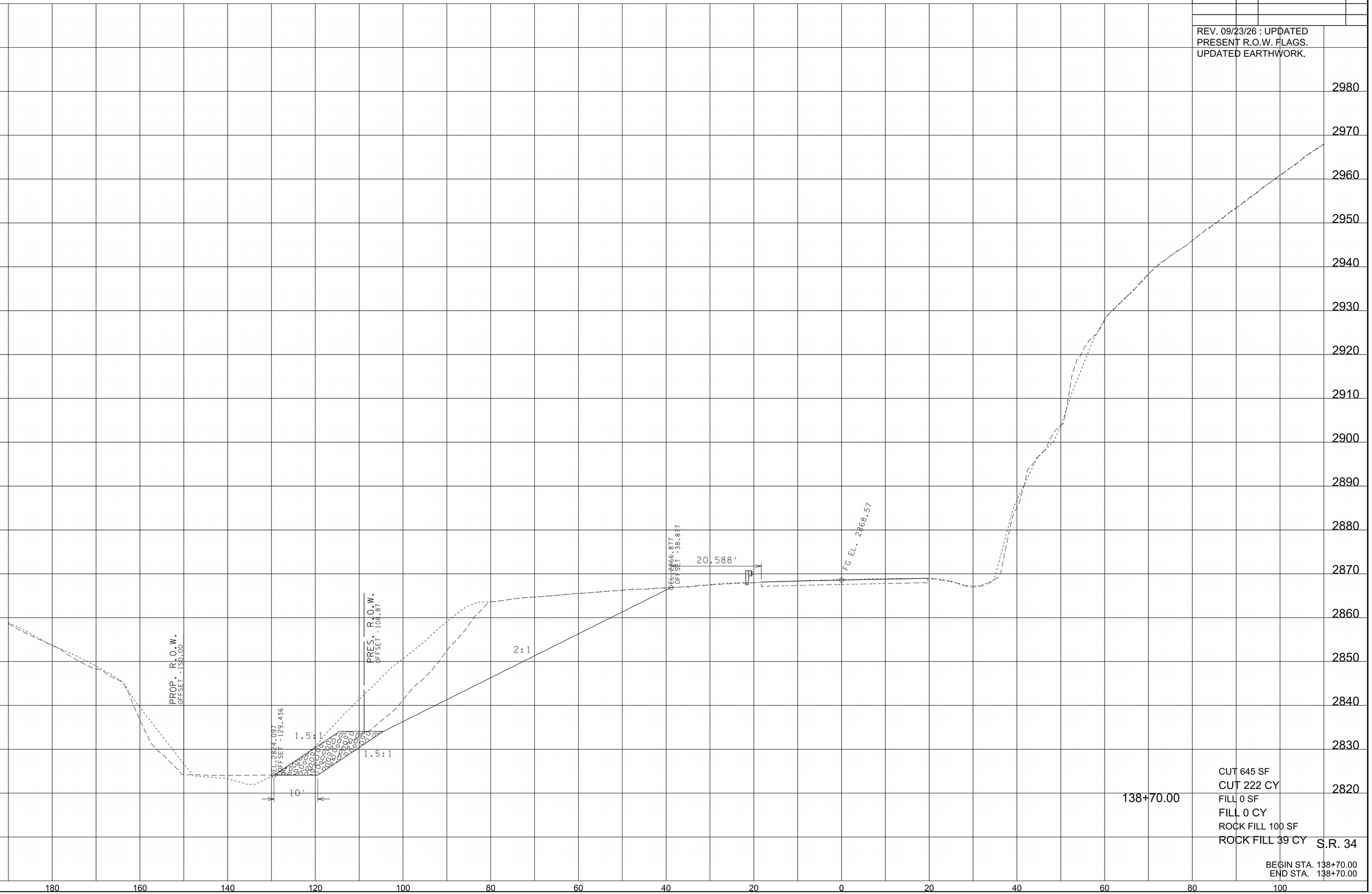
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END STA. 138+60.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	16

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



138+70.00

CUT 645 SF
CUT 222 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 100 SF
ROCK FILL 39 CY

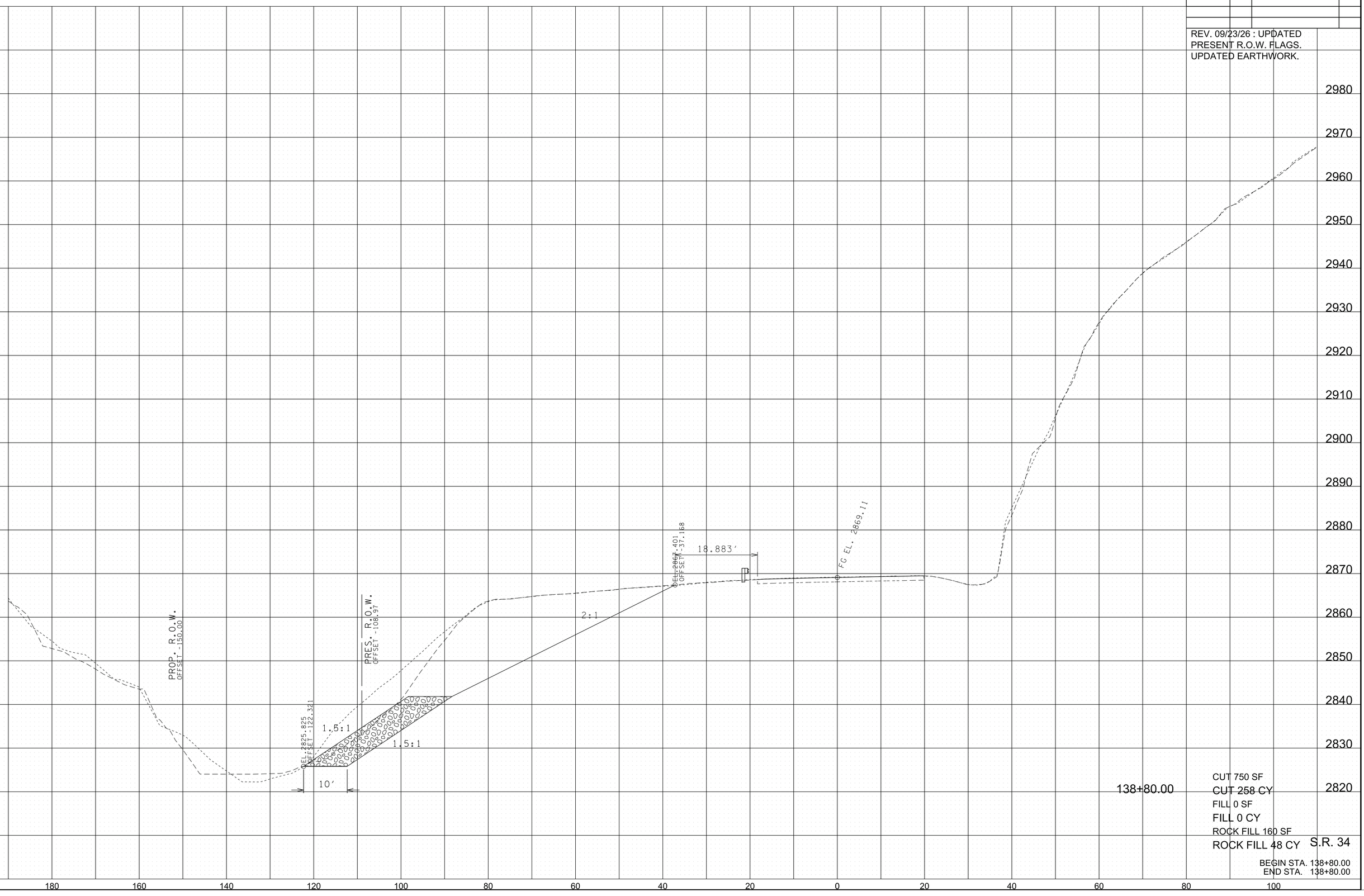
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BEGIN STA. 138+70.00
END STA. 138+70.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	17

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



138+80.00

CUT 750 SF
CUT 258 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 160 SF
ROCK FILL 48 CY

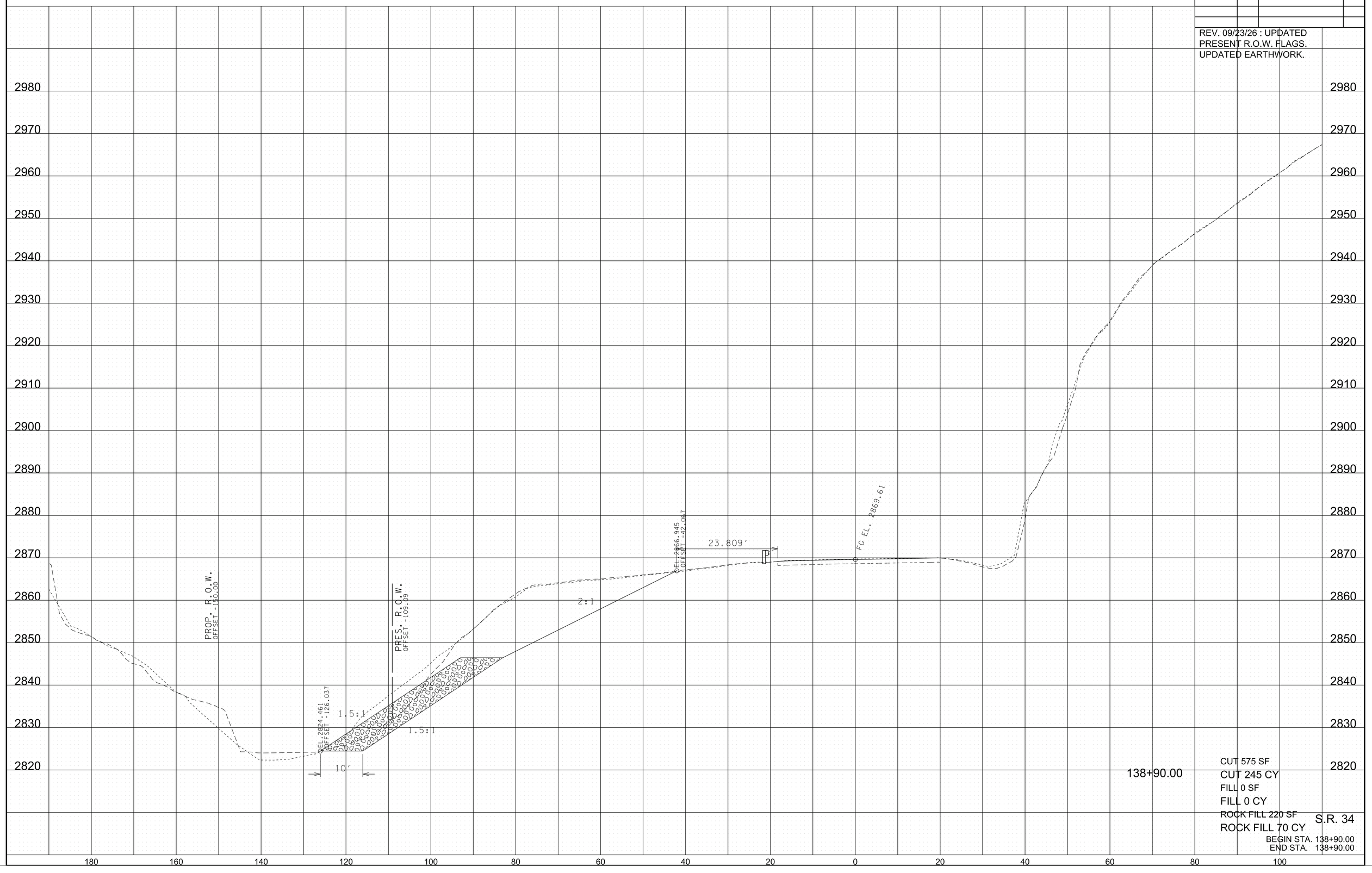
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BEGIN STA. 138+80.00
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	18

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



138+90.00

CUT 575 SF
CUT 245 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 220 SF
ROCK FILL 70 CY

S.R. 34
BEGIN STA. 138+90.00
END STA. 138+90.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	19

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.

2980
2970
2960
2950
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2930
2920
2910
2900
2890
2880
2870
2860
2850
2840
2830
2820

PROP. R.O.W.
OFFSET -150.00

PRES. R.O.W.
OFFSET -109.25

EL=2824.887
OFFSET -121.66'

1.5:1

1.5:1

10'

2:1

EL=2864.199
OFFSET -47.040'

28.871'

FG EL. 2870.13

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

139+00.00

CUT 367 SF
CUT 174 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 280 SF
ROCK FILL 93 CY

S.R. 34

BEGIN STA. 139+00.00
END STA. 139+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	20

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.

PROP. R.O.W.
OFFSET - 150.00

PRES. R.O.W.
OFFSET - 109.44

EL. 2825.358
OFFSET - 119.132

EL. 2867.249
OFFSET - 40.351

22.217'

FG EL. 2870.66

1.5:1

1:1

2:1

1.5:1

10'

20'

20'

139+10.00

CUT 384 SF
CUT 139 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 403 SF
ROCK FILL 127 CY

S.R. 34

BEGIN STA. 139+10.00
END STA. 139+10.00

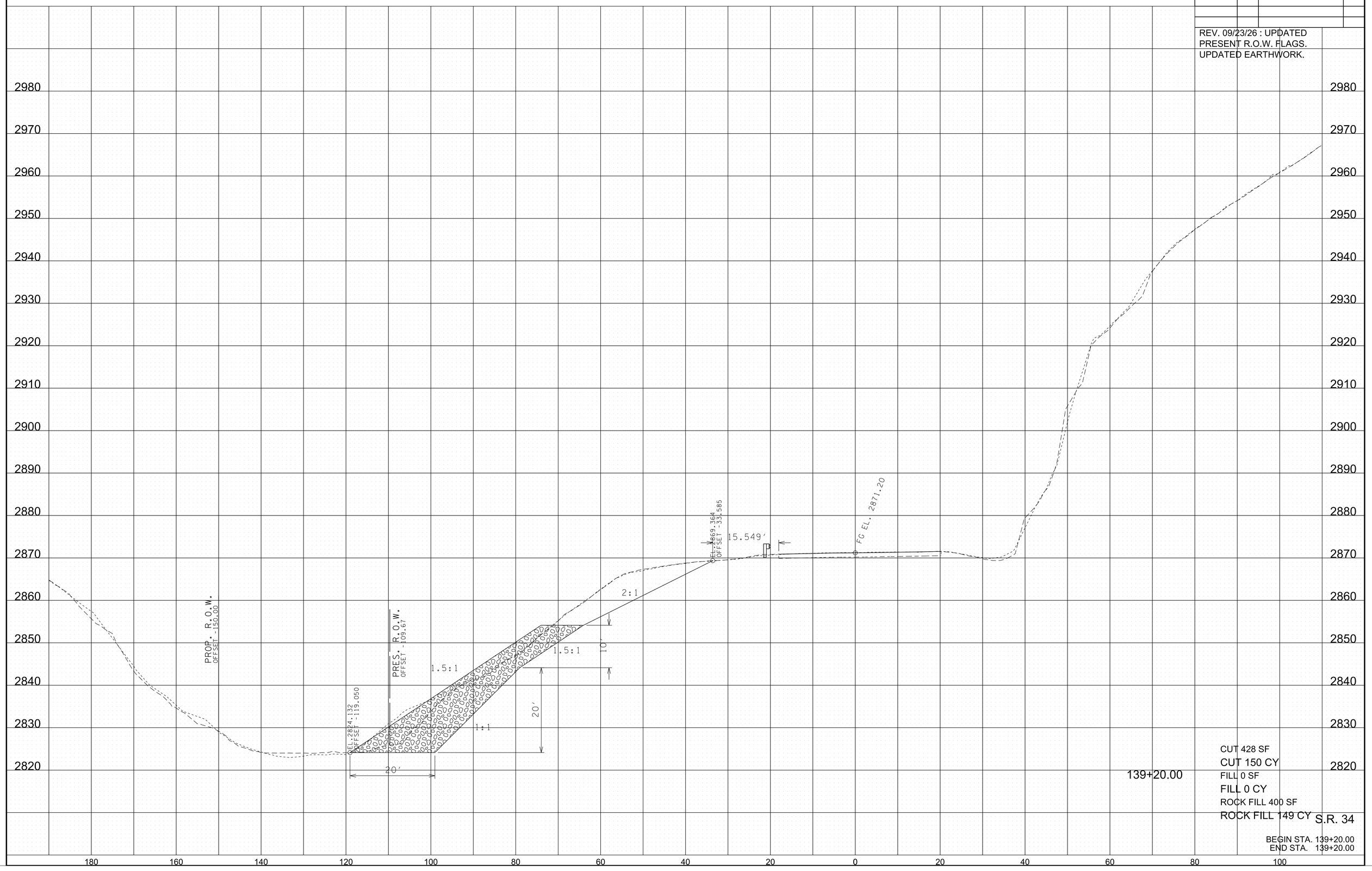
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	21

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



139+20.00

CUT 428 SF
CUT 150 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 400 SF
ROCK FILL 149 CY

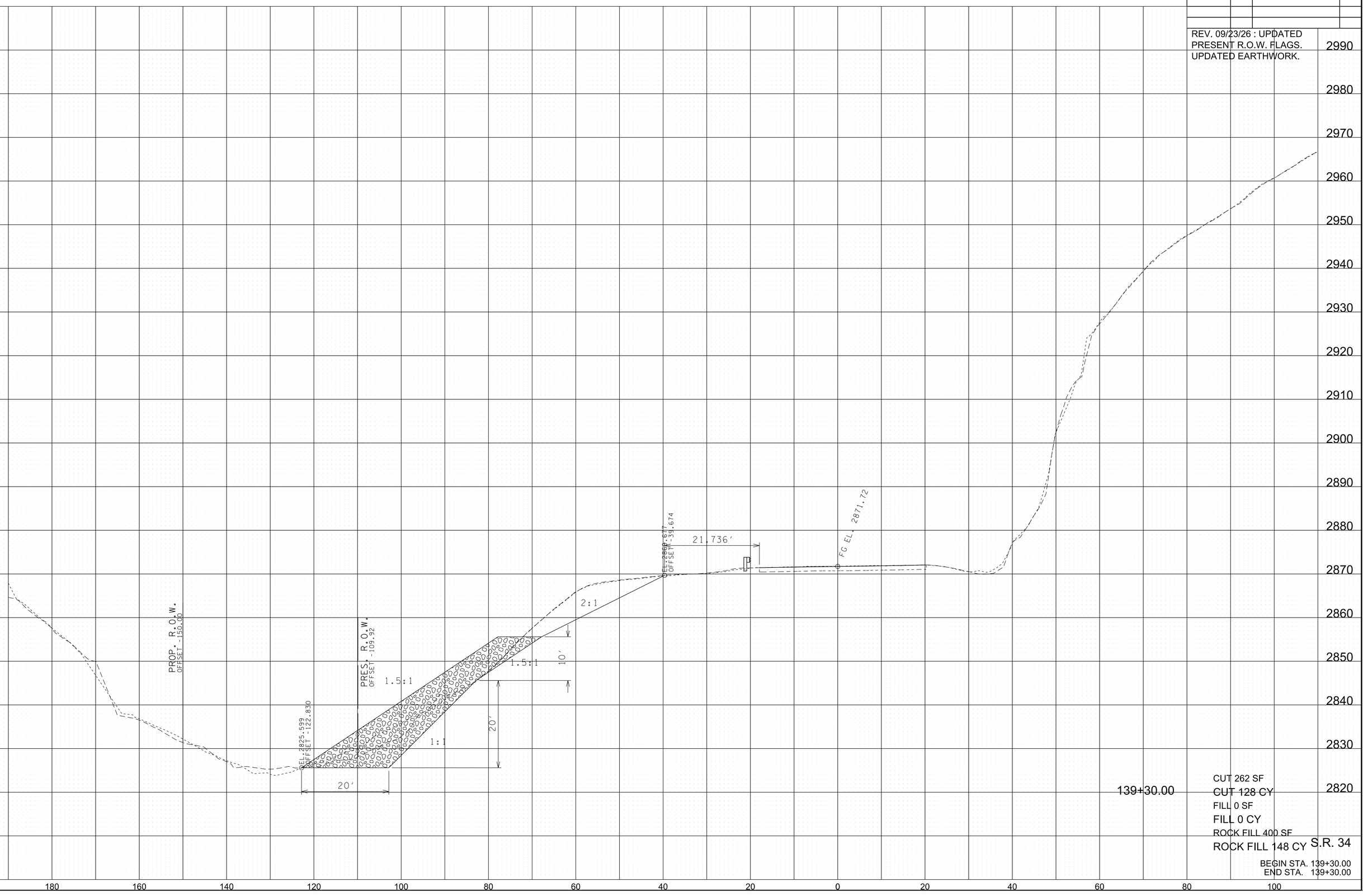
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END STA. 139+20.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	22

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



139+30.00

CUT 262 SF
CUT 128 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 400 SF
ROCK FILL 148 CY

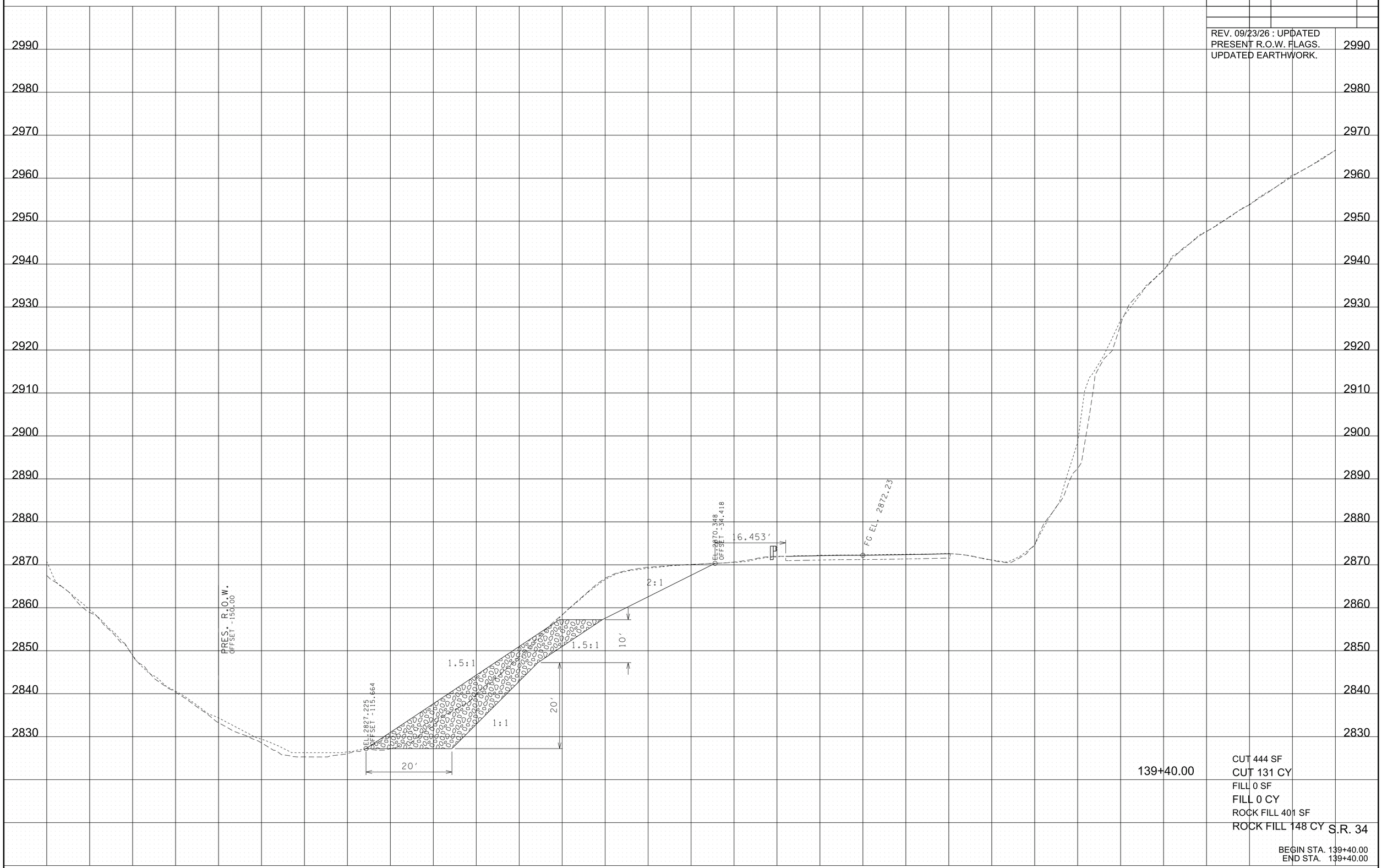
S.R. 34

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	23

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



139+40.00

CUT 444 SF
CUT 131 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 401 SF
ROCK FILL 148 CY

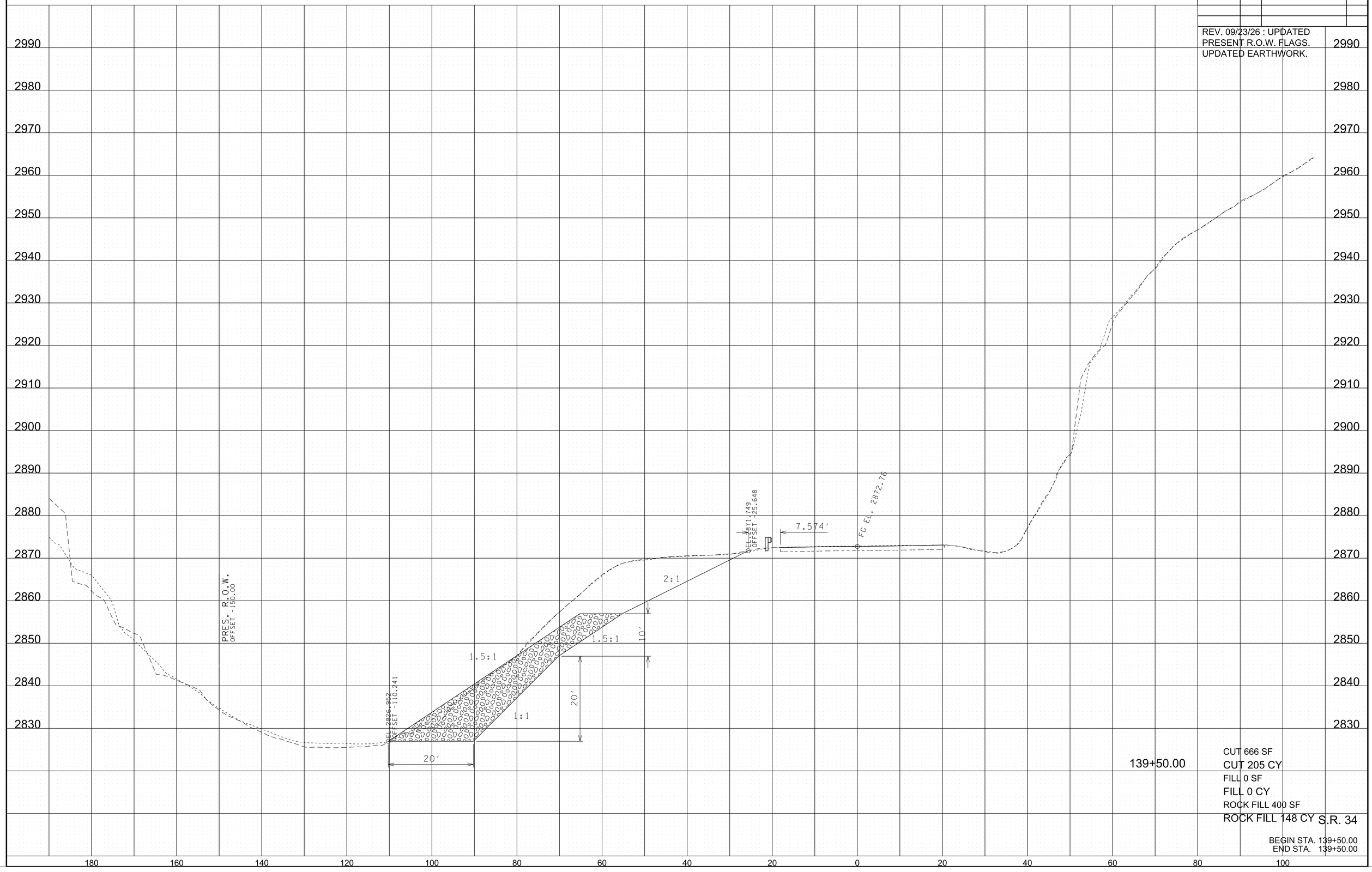
S.R. 34

BEGIN STA. 139+40.00
END STA. 139+40.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	24

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



139+50.00

CUT 666 SF
CUT 205 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 400 SF
ROCK FILL 148 CY

S.R. 34

BEGIN STA. 139+50.00
END STA. 139+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	25

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.

PRES. R.O.W.
OFFSET 98.22

PRES. R.O.W.
OFFSET -150.00

EL. 2872.572
OFFSET -23.702

5.533

FG EL. 2873.29

2:1

1.5:1

10'

1.5:1

20'

1:1

EL. 2825.602
OFFSET -112.644

20'

NOTE: ROCK FILL TO WRAP
AROUND GABION BASKET.

139+60.00

CUT 659 SF
CUT 245 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 400 SF
ROCK FILL 148 CY

S.R. 34

BEGIN STA. 139+60.00
END STA. 139+60.00

2990 2980 2970 2960 2950 2940 2930 2920 2910 2900 2890 2880 2870 2860 2850 2840 2830 2820

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	26

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.

PRES. R.O.W.
OFFSET -91.91

PRES. R.O.W.
OFFSET -150.00

10.001'

2:1

1.5:1

1:1

2'

10'

OFFSET -102.499

3'

12'

13.664'

OFFSET 31.872

FG EL. 2873.81

BEGIN GABION BASKET
STA. 139+70.00

139+70.00

CUT 528 SF
CUT 220 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 467 SF
ROCK FILL 161 CY

S.R. 34

BEGIN STA. 139+70.00
END STA. 139+70.00

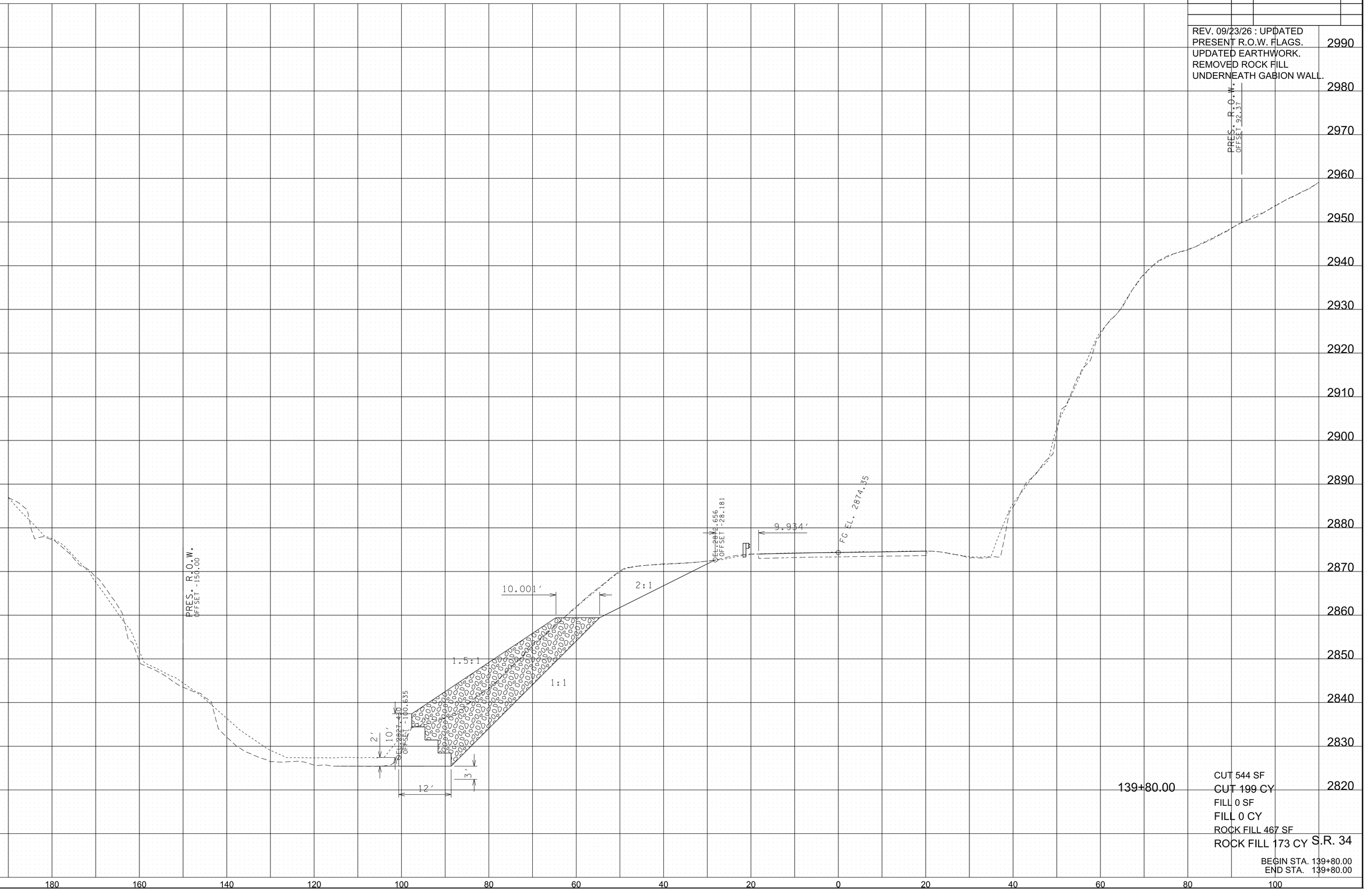
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180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	27

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



139+80.00

CUT 544 SF
CUT 199 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 467 SF
ROCK FILL 173 CY

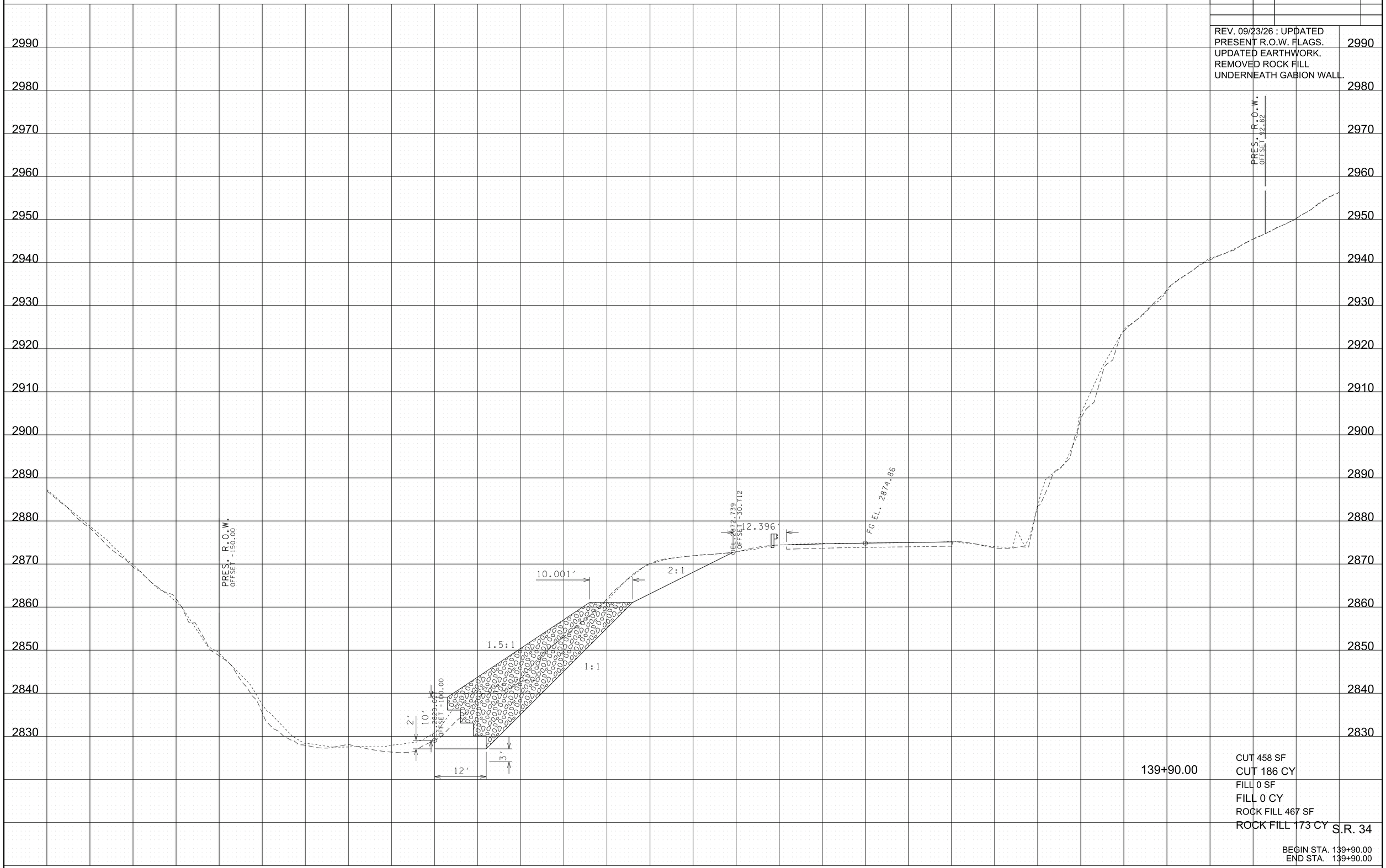
S.R. 34

BEGIN STA. 139+80.00
END STA. 139+80.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	28

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



139+90.00

CUT 458 SF
CUT 186 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 467 SF
ROCK FILL 173 CY

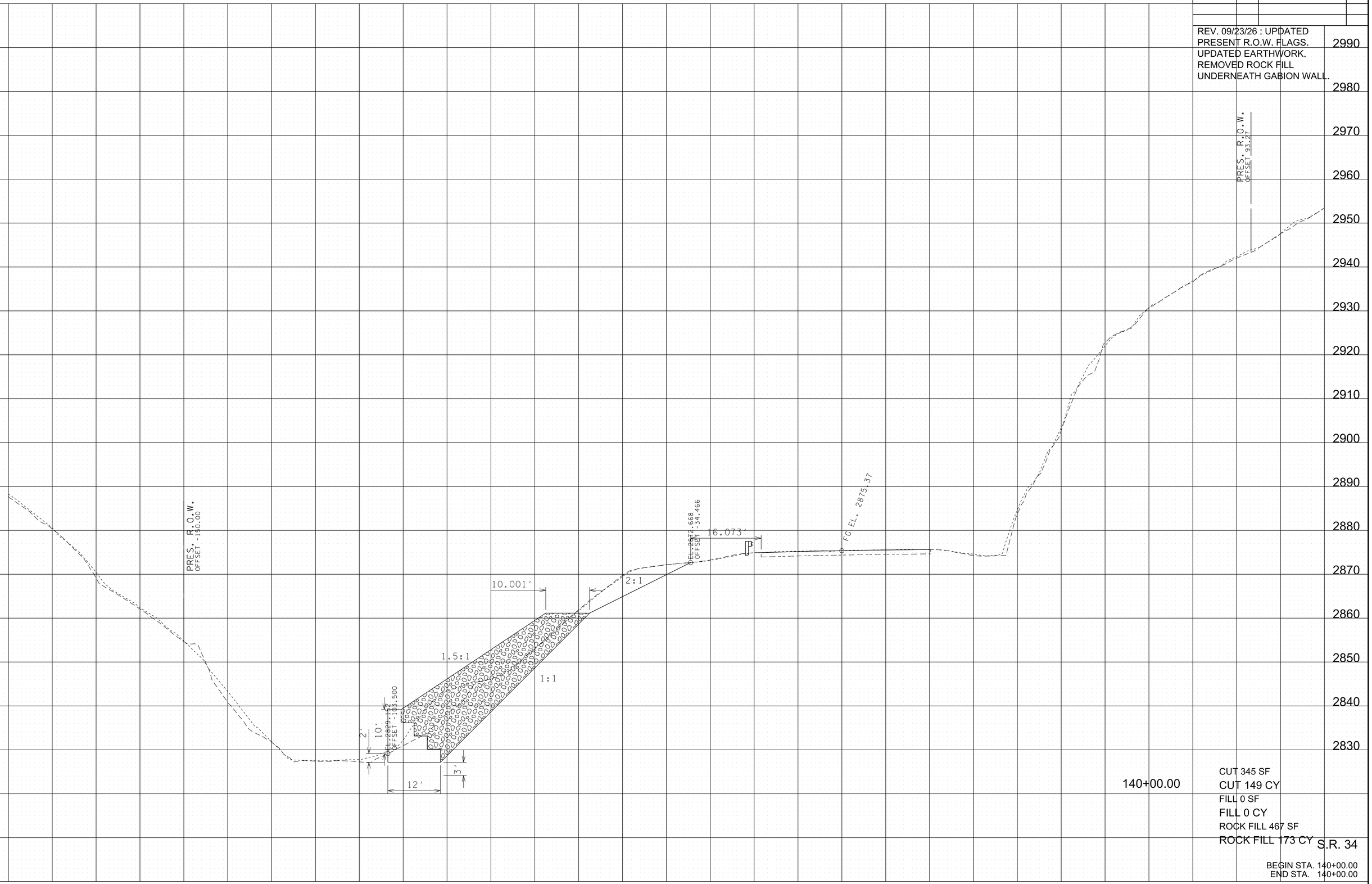
S.R. 34

BEGIN STA. 139+90.00
END STA. 139+90.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	29

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



140+00.00

CUT 345 SF
CUT 149 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 467 SF
ROCK FILL 173 CY

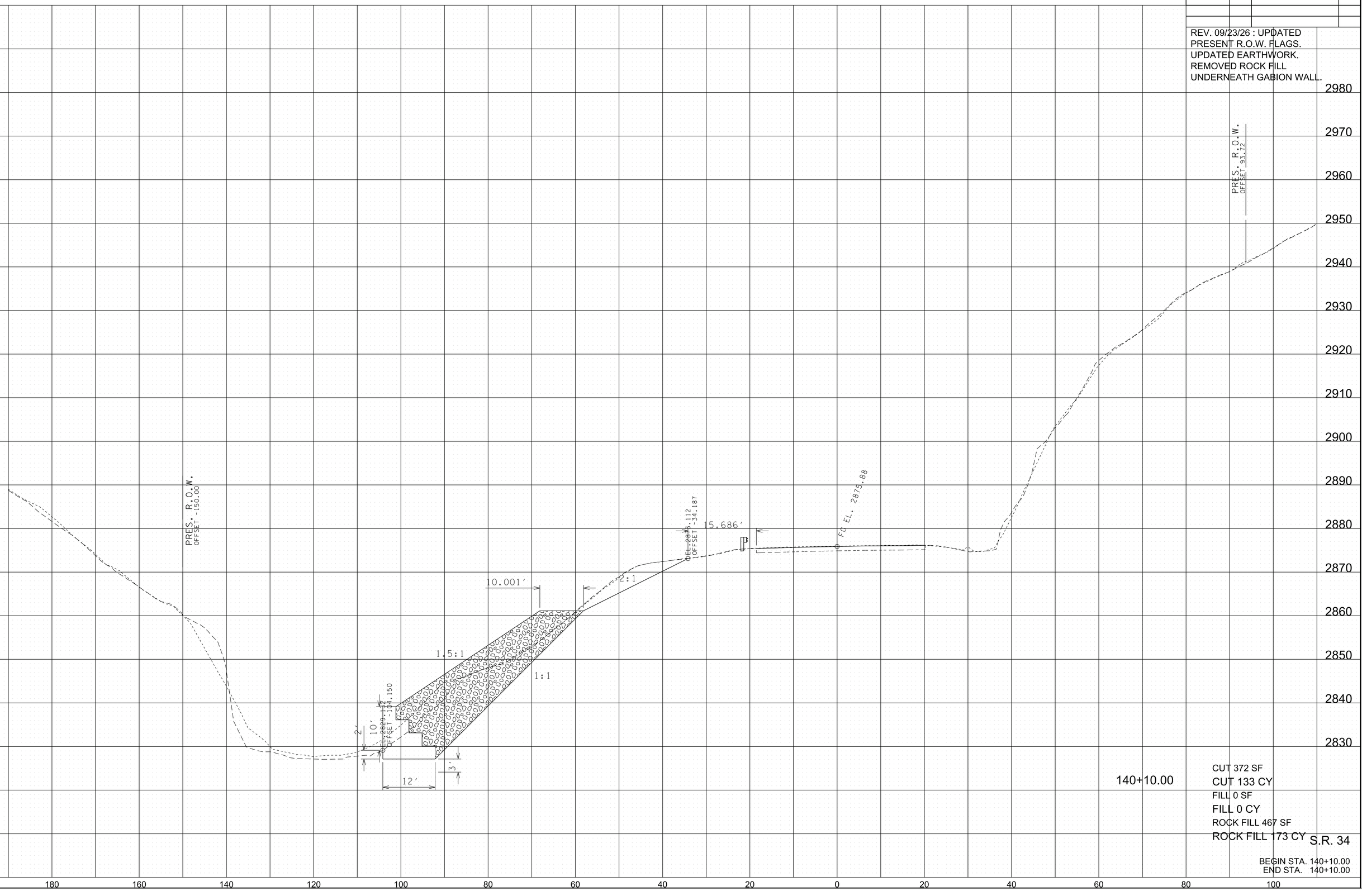
S.R. 34

BEGIN STA. 140+00.00
END STA. 140+00.00

9/24/2026 9:08:08 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	30

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



140+10.00

CUT 372 SF
CUT 133 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 467 SF
ROCK FILL 173 CY

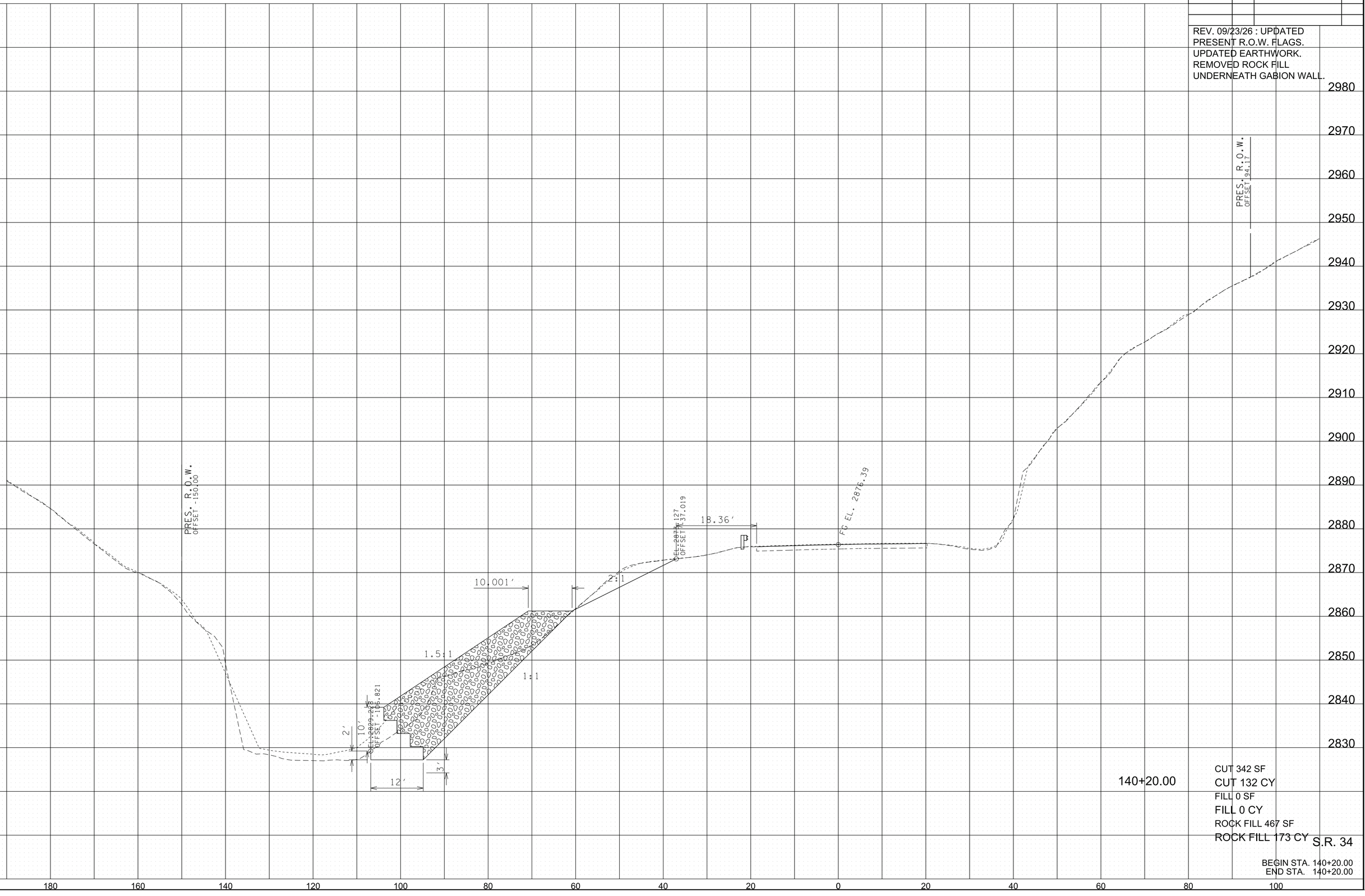
S.R. 34

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	31

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



140+20.00

CUT 342 SF
CUT 132 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 467 SF
ROCK FILL 173 CY

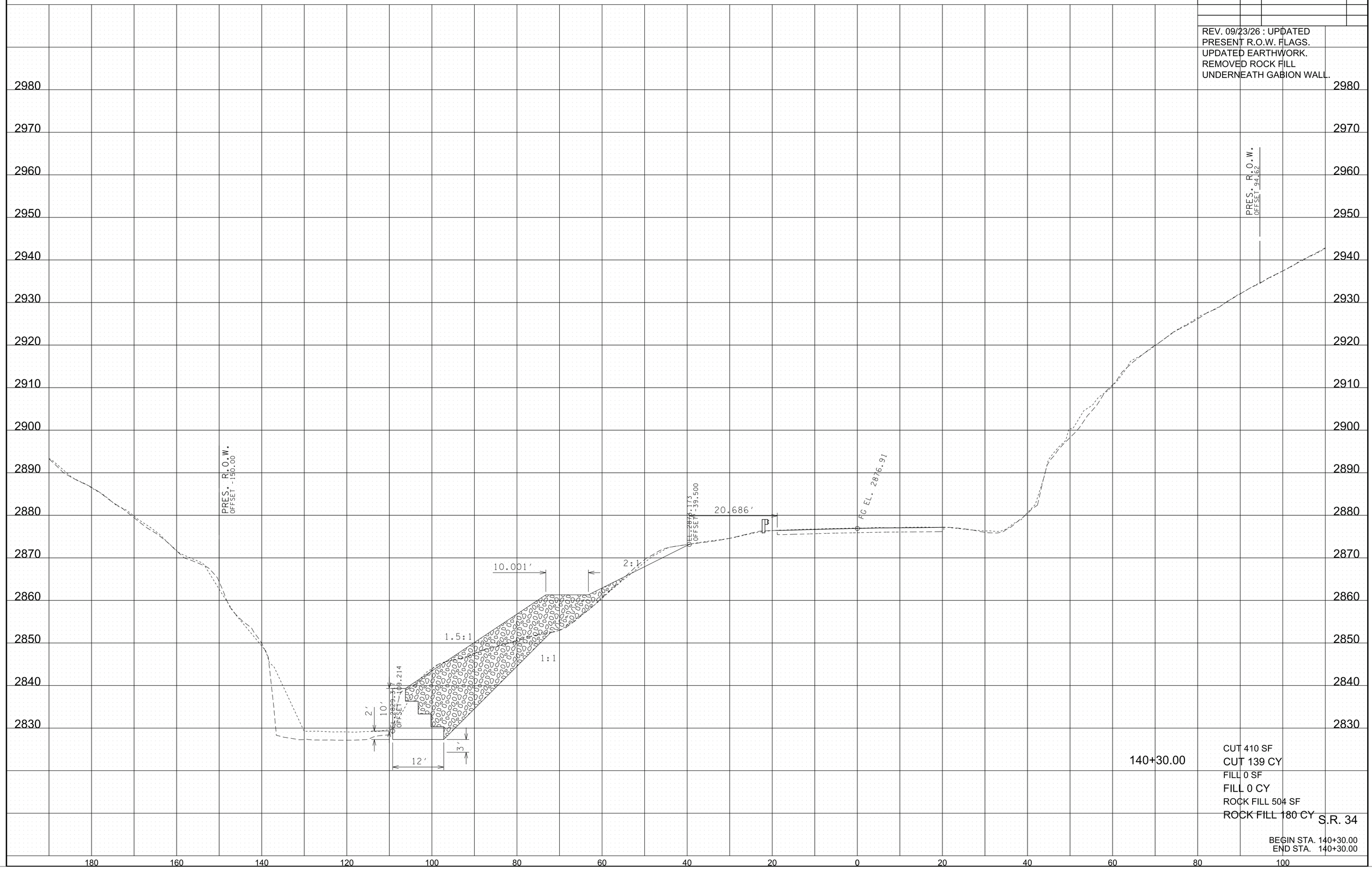
S.R. 34

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END STA. 140+20.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	32

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



140+30.00

CUT 410 SF
CUT 139 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 504 SF
ROCK FILL 180 CY

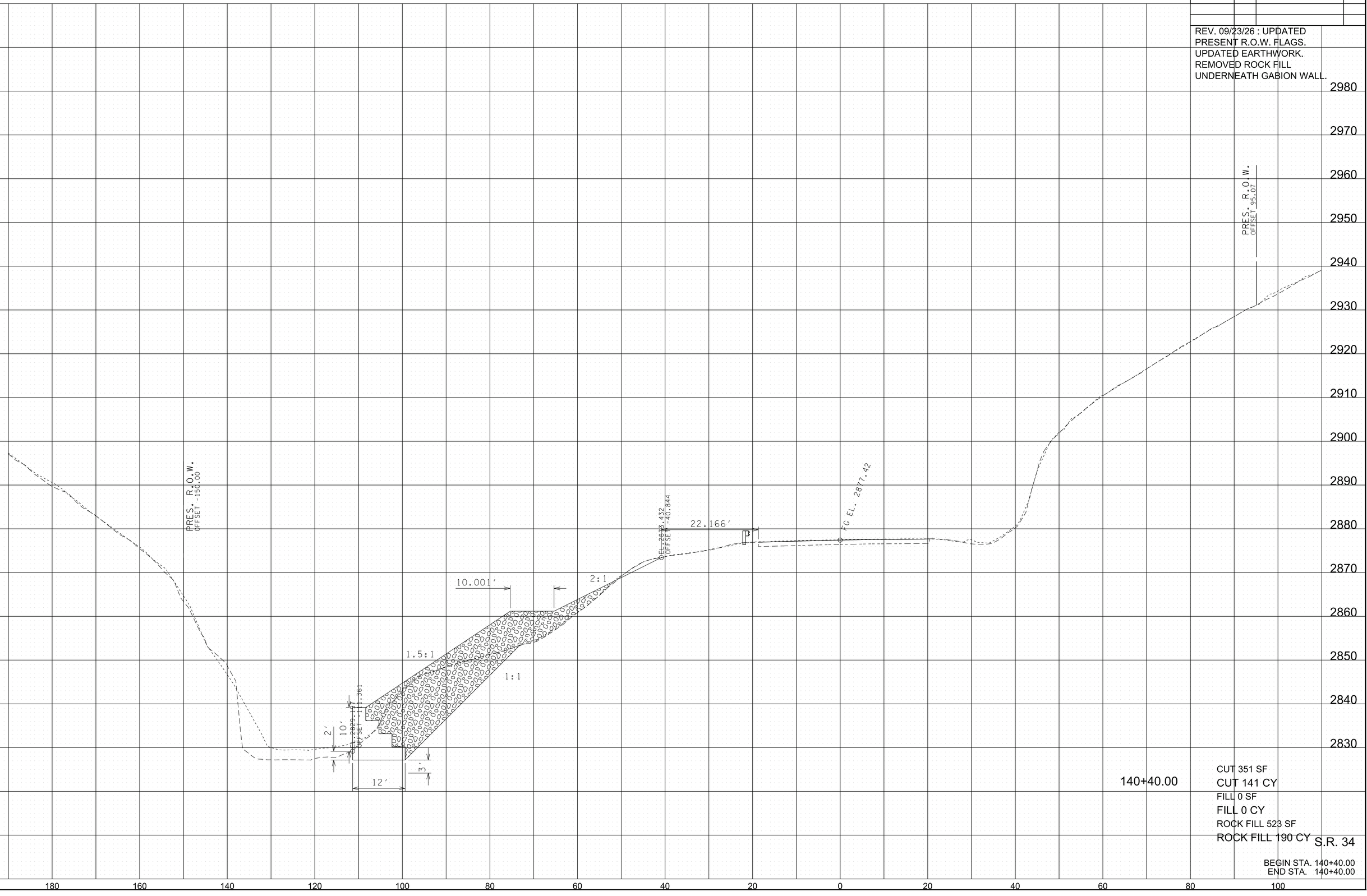
S.R. 34

BEGIN STA. 140+30.00
END STA. 140+30.00

9/24/2026 9:08:27 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	33

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



140+40.00

CUT 351 SF
CUT 141 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 523 SF
ROCK FILL 190 CY

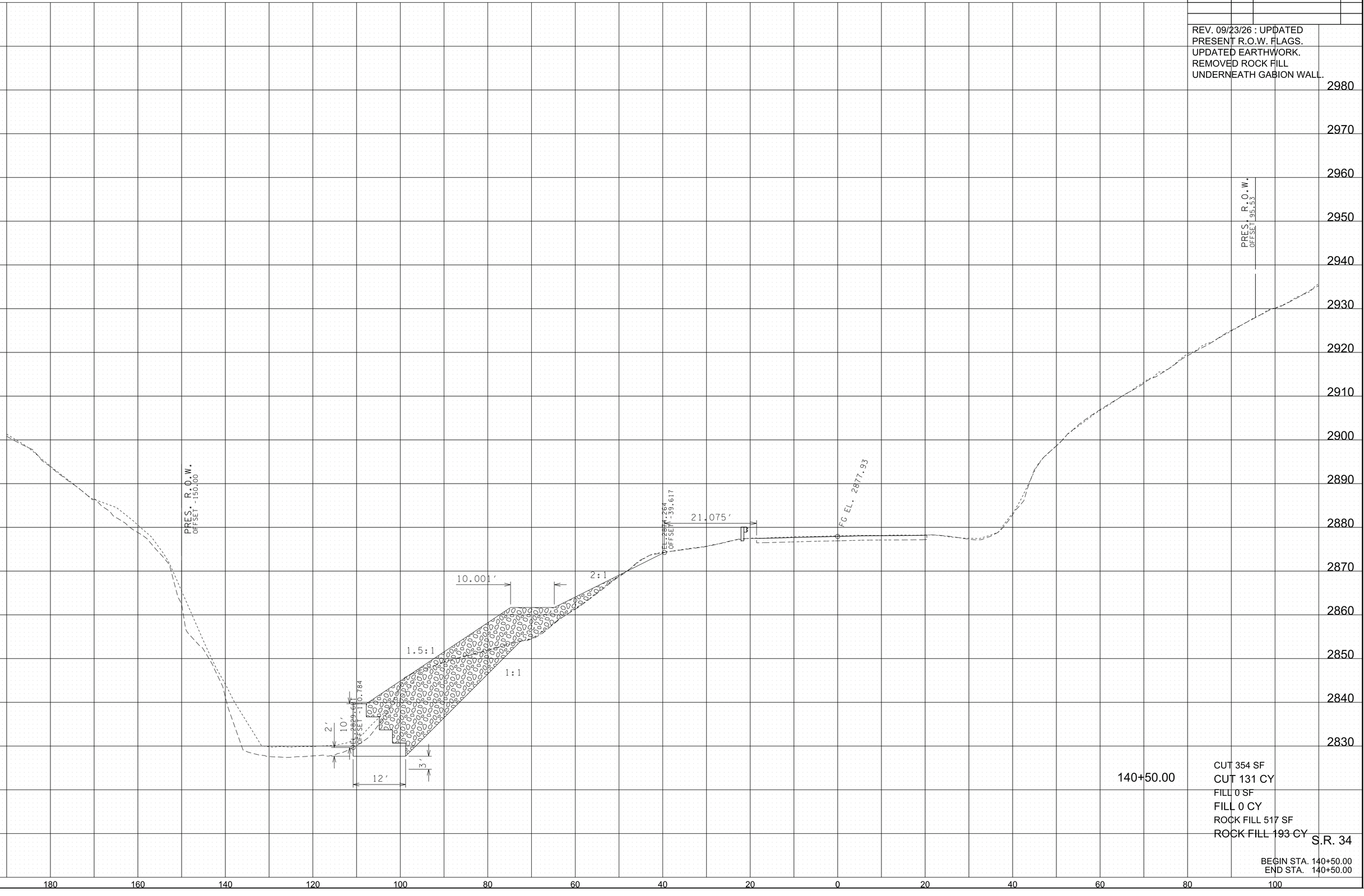
S.R. 34

BEGIN STA. 140+40.00
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	34

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



140+50.00

CUT 354 SF
CUT 131 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 517 SF
ROCK FILL 193 CY

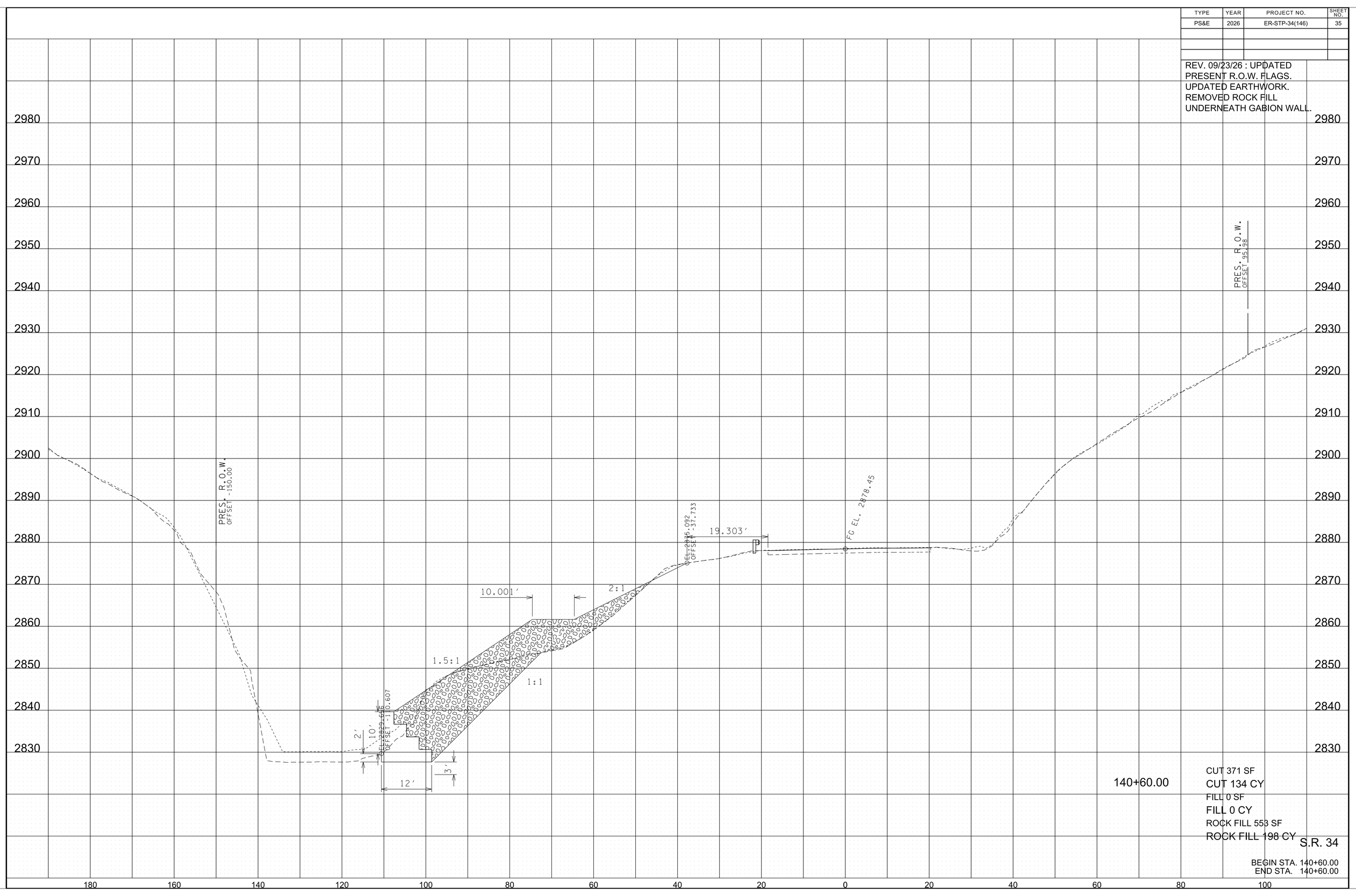
S.R. 34

BEGIN STA. 140+50.00
END STA. 140+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	35

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



140+60.00

CUT 371 SF
CUT 134 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 553 SF
ROCK FILL 198 CY

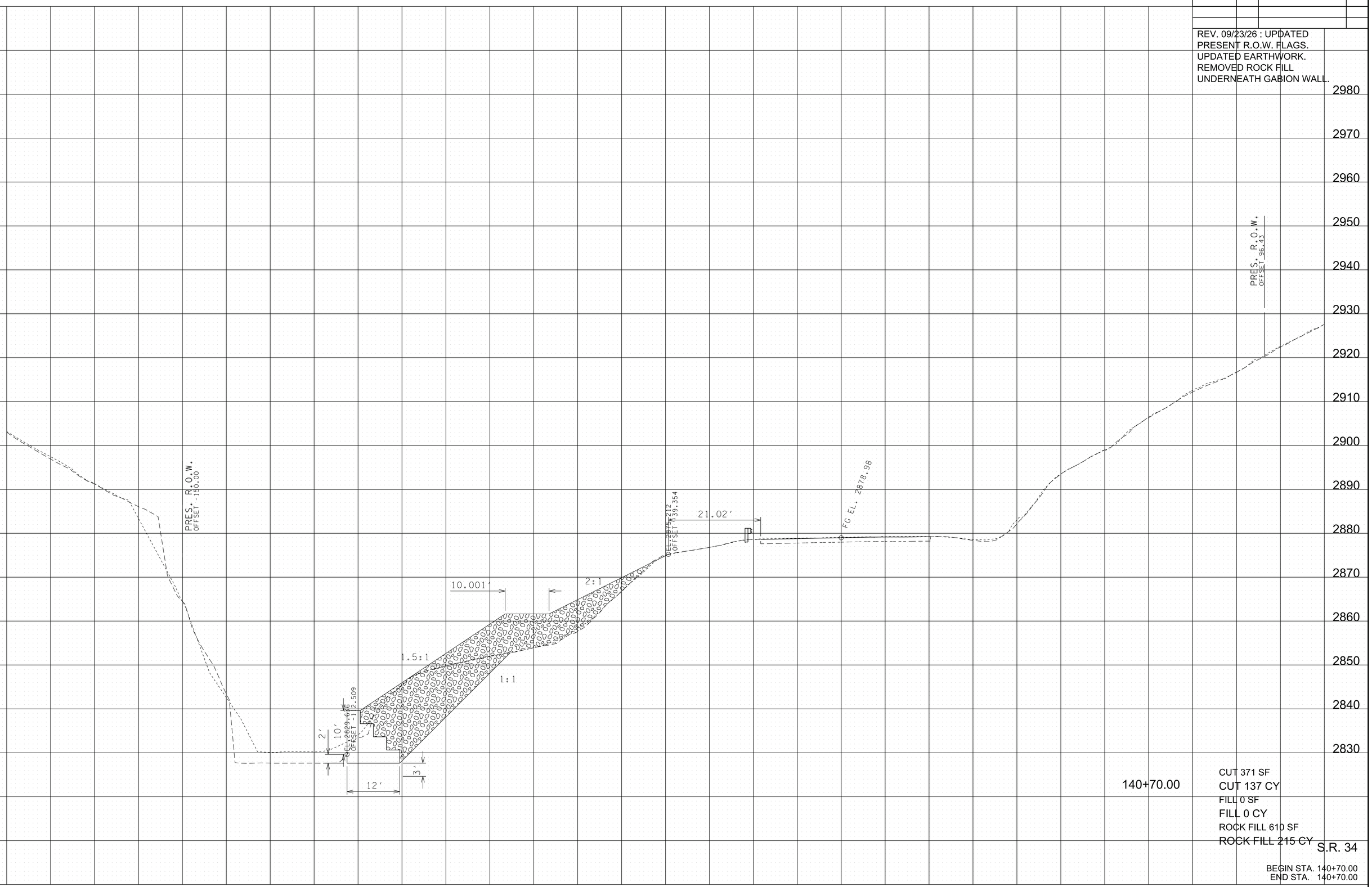
S.R. 34

BEGIN STA. 140+60.00
END STA. 140+60.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	36

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



140+70.00

CUT 371 SF
CUT 137 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 610 SF
ROCK FILL 215 CY

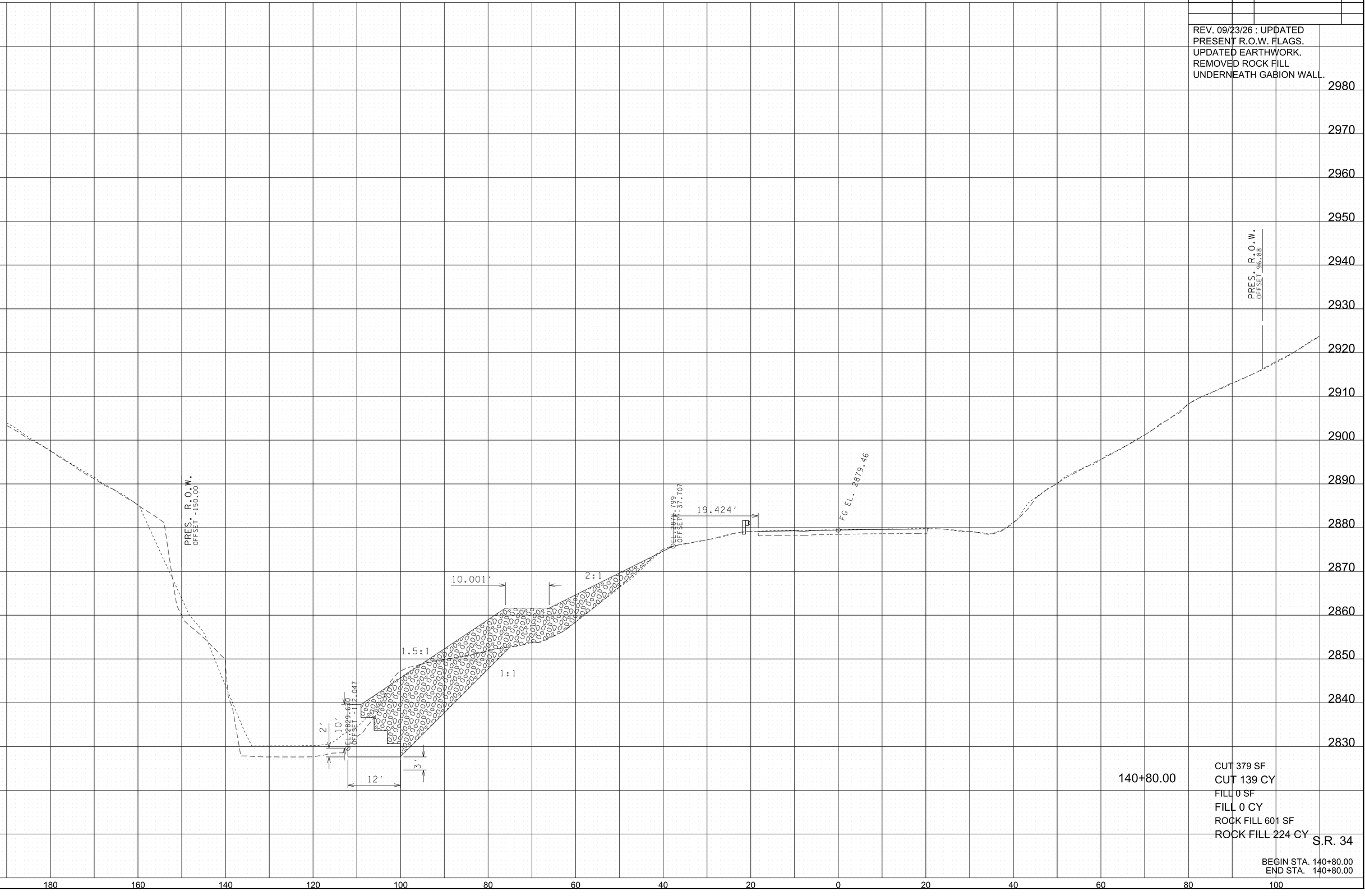
S.R. 34

BEGIN STA. 140+70.00
END STA. 140+70.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	37

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



140+80.00

CUT 379 SF
CUT 139 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 601 SF
ROCK FILL 224 CY

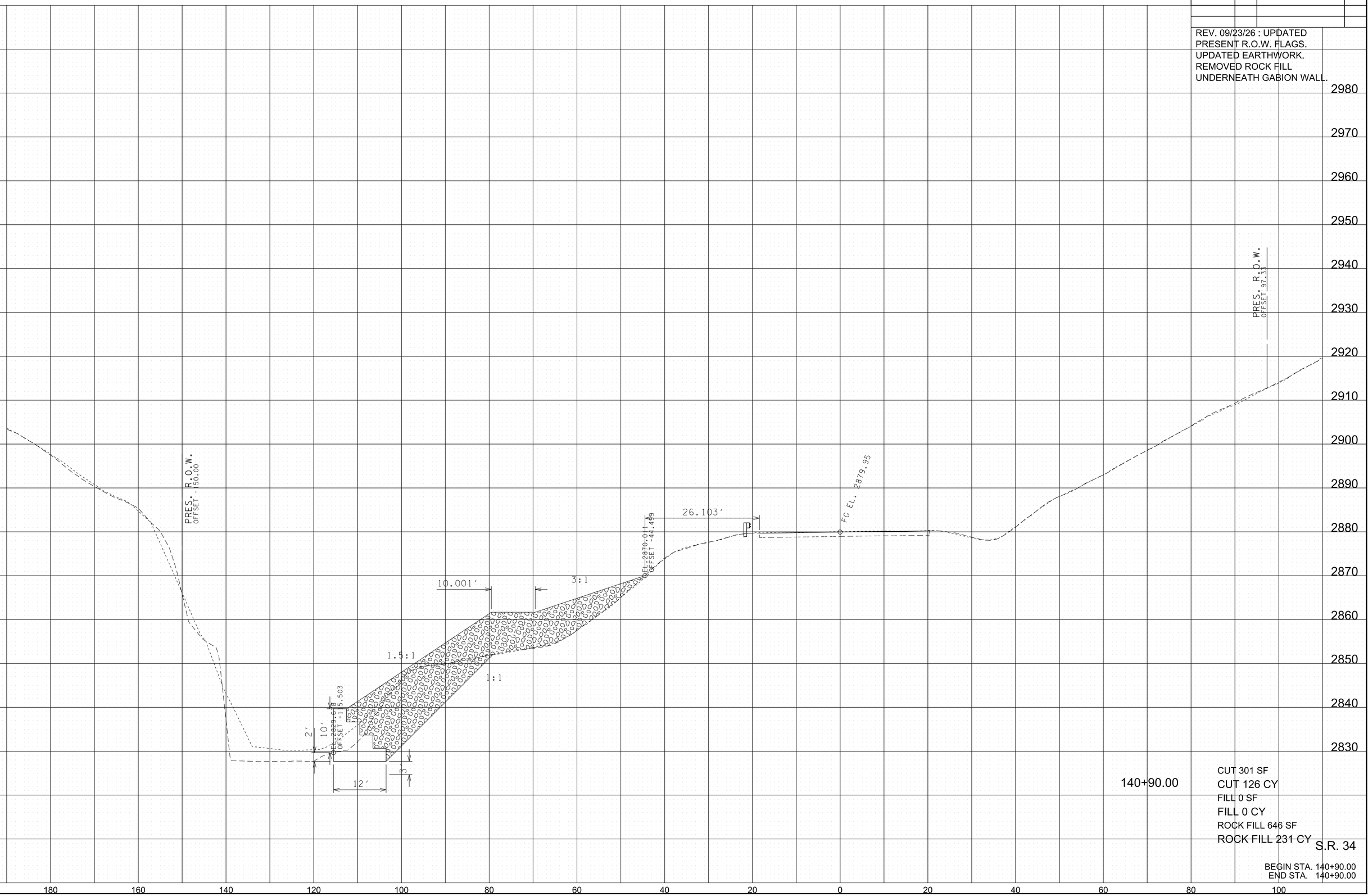
S.R. 34

BEGIN STA. 140+80.00
END STA. 140+80.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	38

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



140+90.00

CUT 301 SF
CUT 126 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 646 SF
ROCK FILL 231 CY

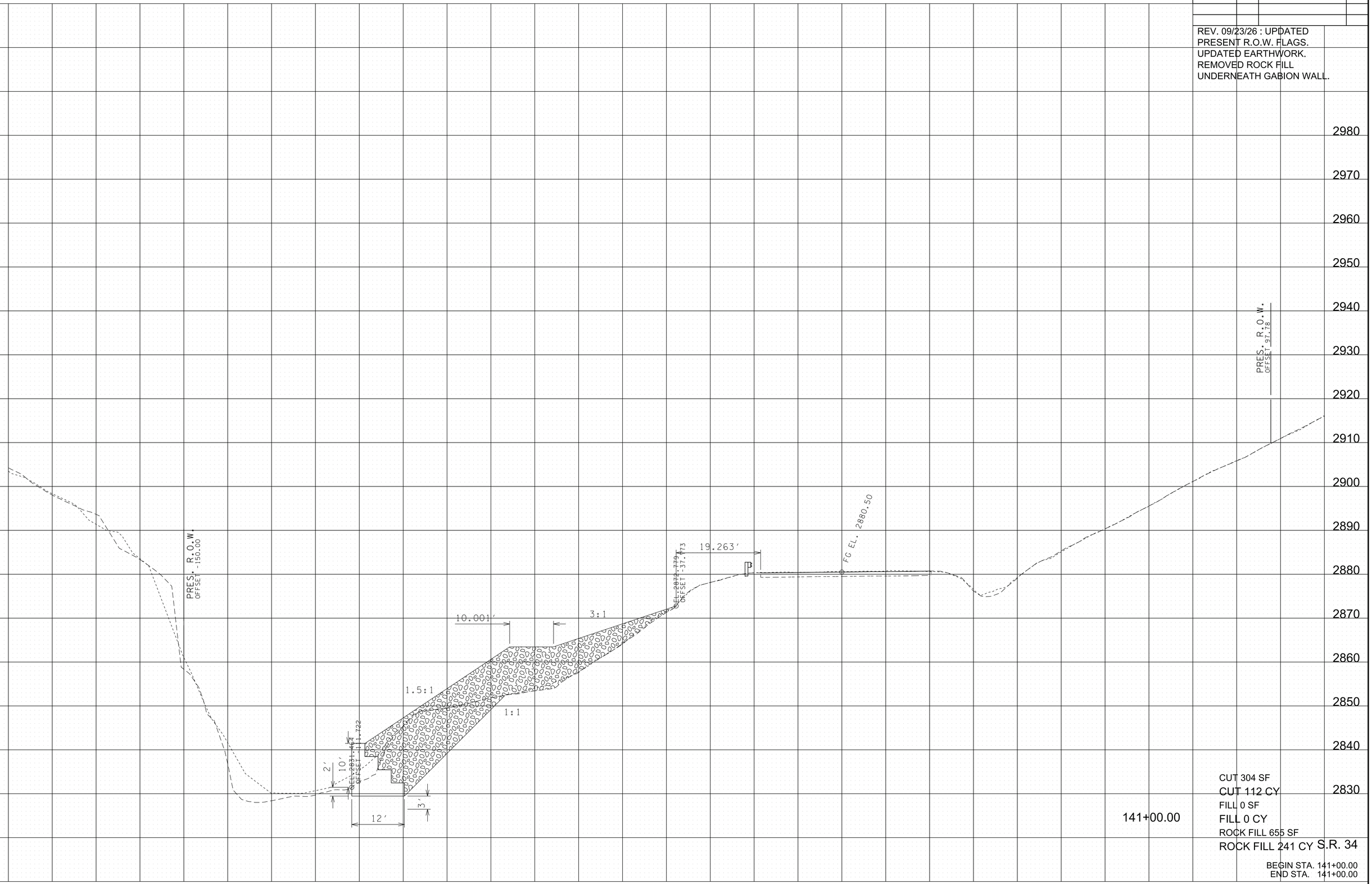
S.R. 34

BEGIN STA. 140+90.00
END STA. 140+90.00

9/24/2026 9:08:39 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	39

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



CUT 304 SF
CUT 112 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 655 SF
ROCK FILL 241 CY

141+00.00

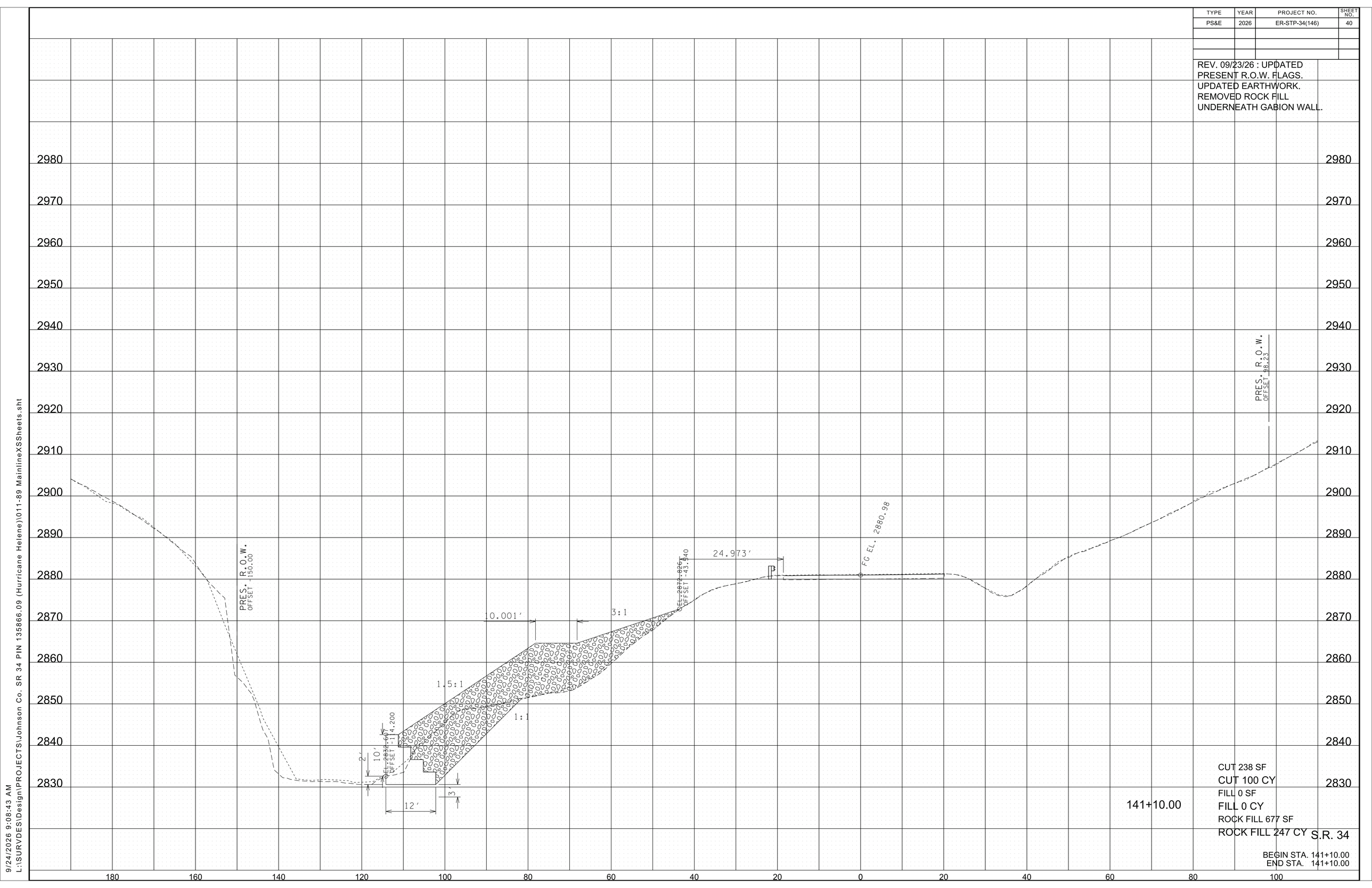
S.R. 34

BEGIN STA. 141+00.00
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9/24/2026 9:08:41 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	40

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



141+10.00

CUT 238 SF
CUT 100 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 677 SF
ROCK FILL 247 CY

S.R. 34

BEGIN STA. 141+10.00
END STA. 141+10.00

9/24/2026 9:08:43 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	41

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.

2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840
2830

PRES. R.O.W.
OFFSET -150.00

PRES. R.O.W.
OFFSET 98.68

FG EL. 2881.52

30.011'

EP EL. 2871.951
OFFSET -48.624

10.001'

3:1

1.5:1

1:1

2'

10'

EL. 2833.525
OFFSET -113.914

3'

12'

141+20.00

CUT 227 SF
CUT 86 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 605 SF
ROCK FILL 238 CY

S.R. 34

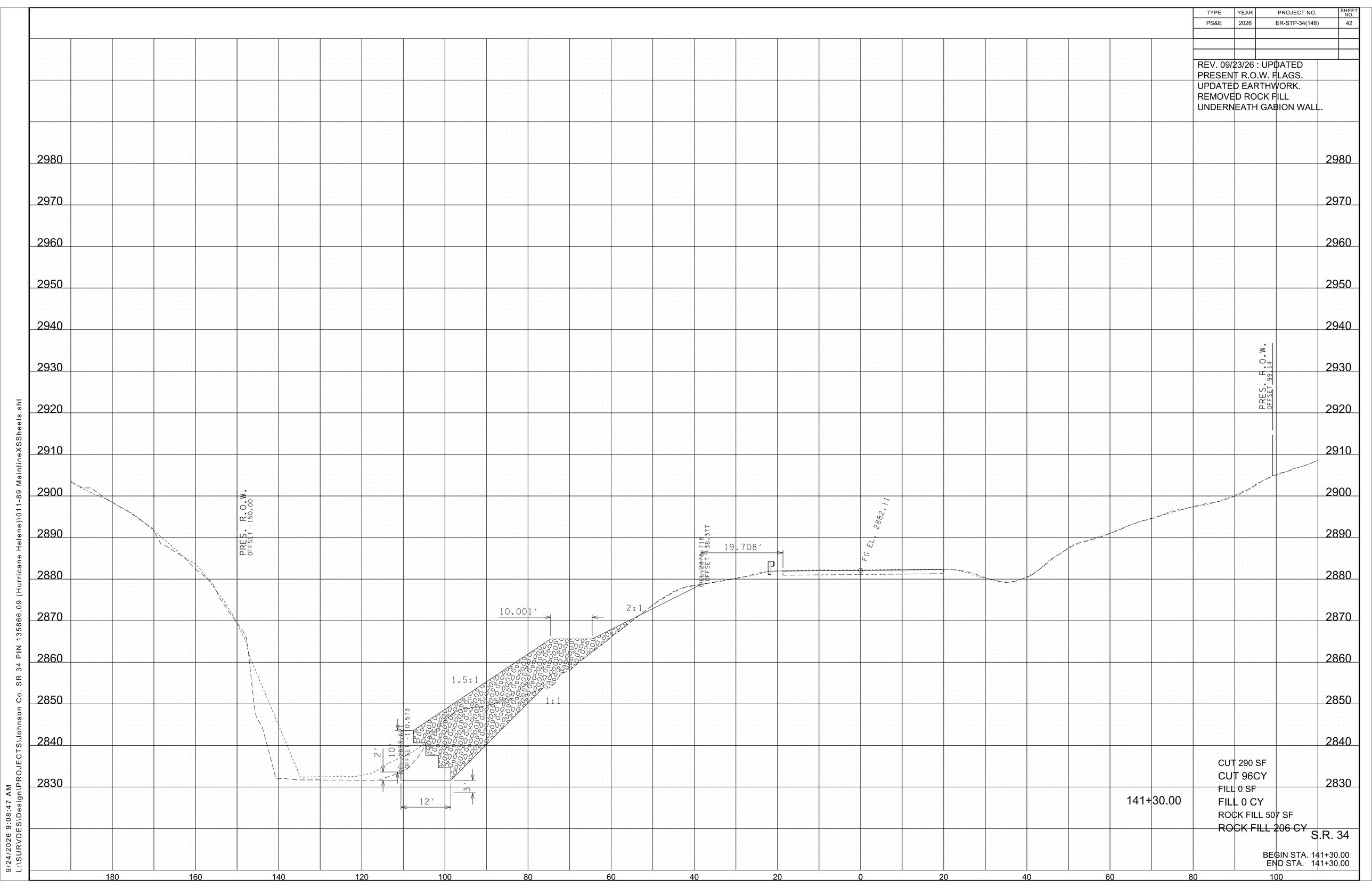
BEGIN STA. 141+20.00
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180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

9/24/2026 9:08:45 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	42

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



141+30.00

CUT 290 SF
CUT 96CY
FILL 0 SF
FILL 0 CY
ROCK FILL 507 SF
ROCK FILL 206 CY

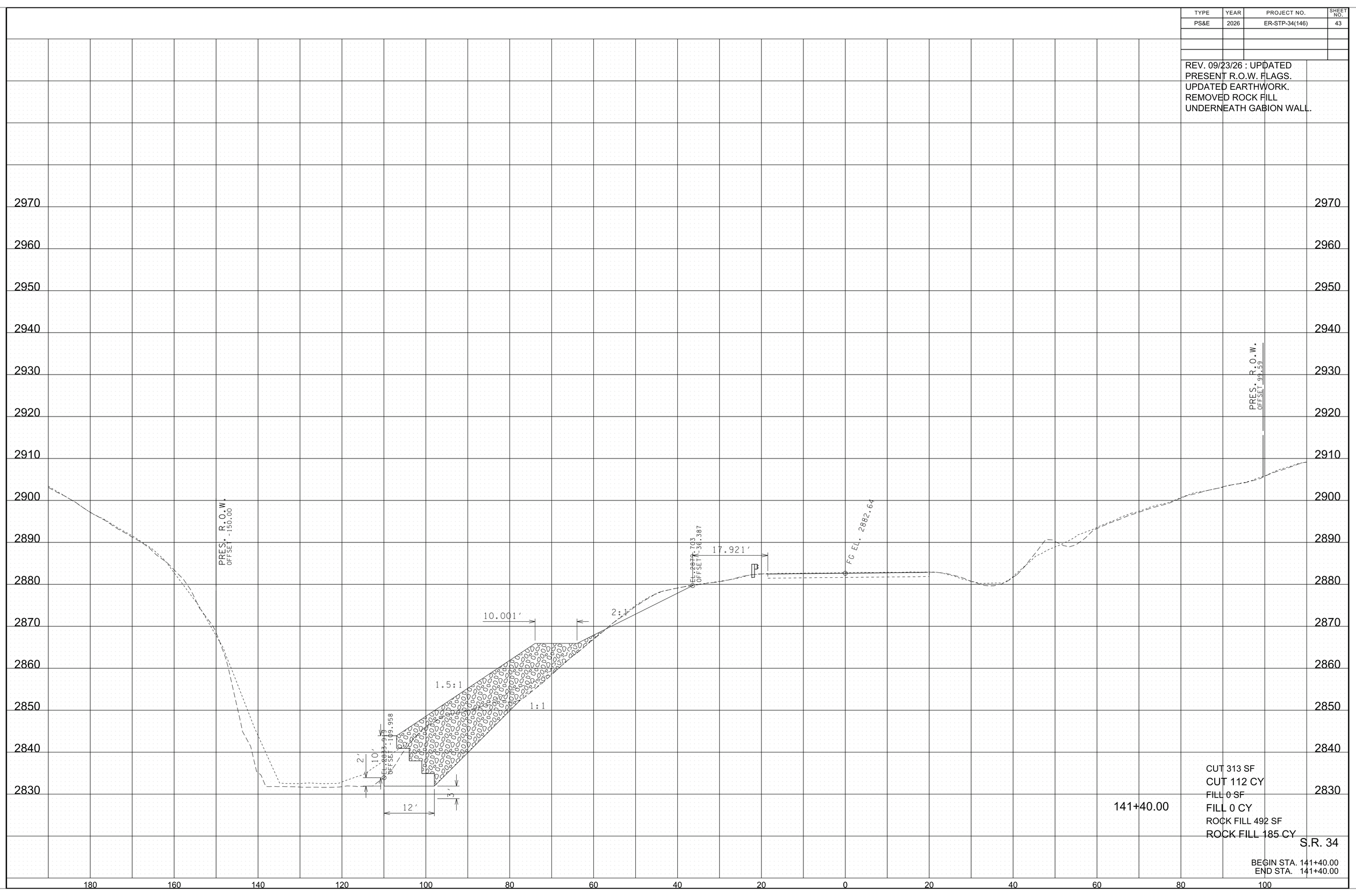
S.R. 34

BEGIN STA. 141+30.00
END STA. 141+30.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	43

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



CUT 313 SF
CUT 112 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 492 SF
ROCK FILL 185 CY

141+40.00

S.R. 34

BEGIN STA. 141+40.00
END STA. 141+40.00

9/24/2026 9:08:49 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	44

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.

2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840
2830

PRES. R.O.W.
OFFSET -150.00

PRES. R.O.W.
OFFSET 100.04

EL. 2880.108
OFFSET -33.688

15.458'

FG EL. 2883.21

10.001'

2:1

1.5:1

1:1

2'

10'

EL. 2833.167
OFFSET -109.569

12'

3'

141+50.00

CUT 348 SF
CUT 122 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 487 SF
ROCK FILL 181 CY

S.R. 34

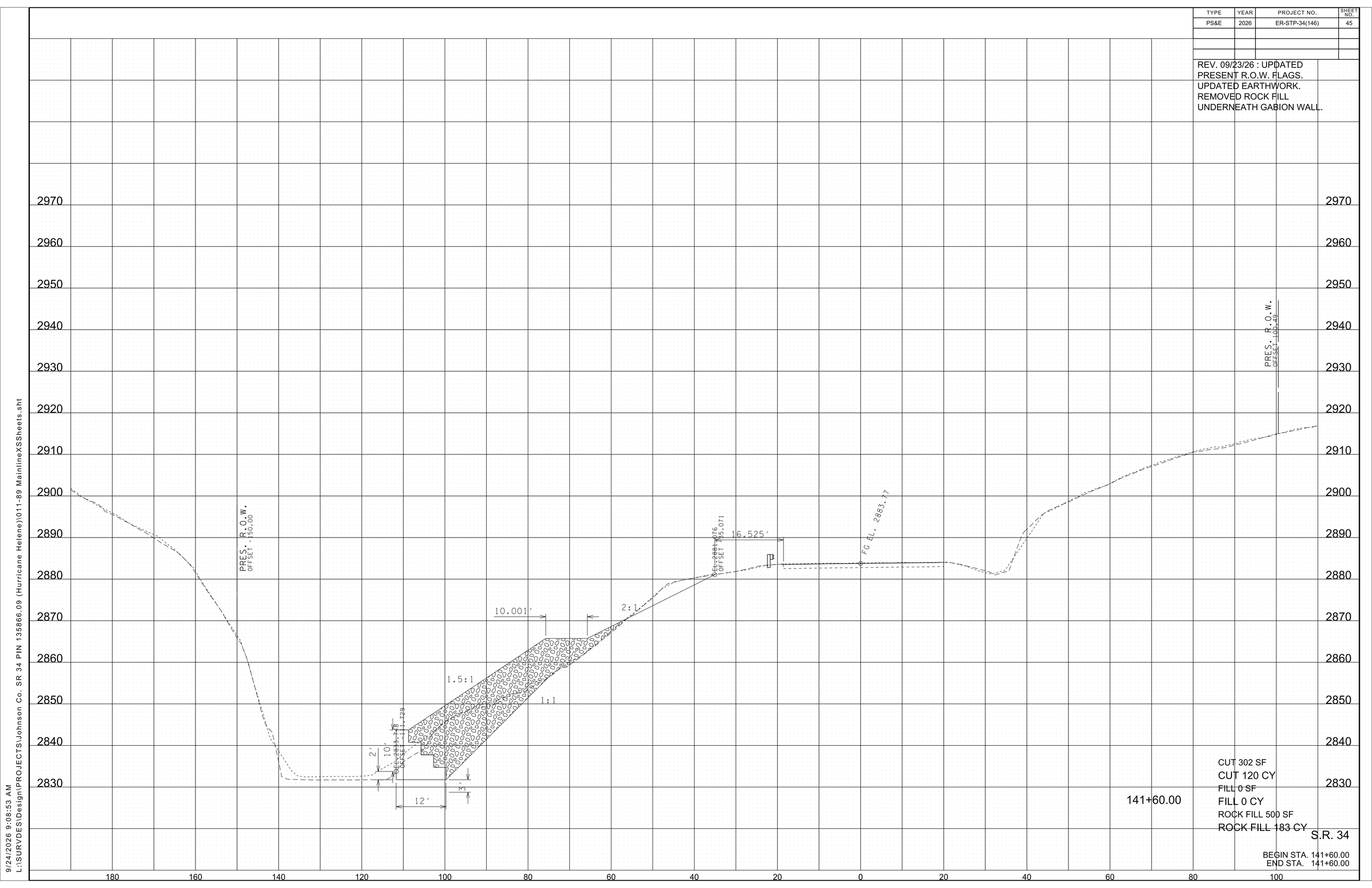
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END STA. 141+50.00

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

9/24/2026 9:08:51 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	45

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



CUT 302 SF
CUT 120 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 500 SF
ROCK FILL 183 CY

141+60.00

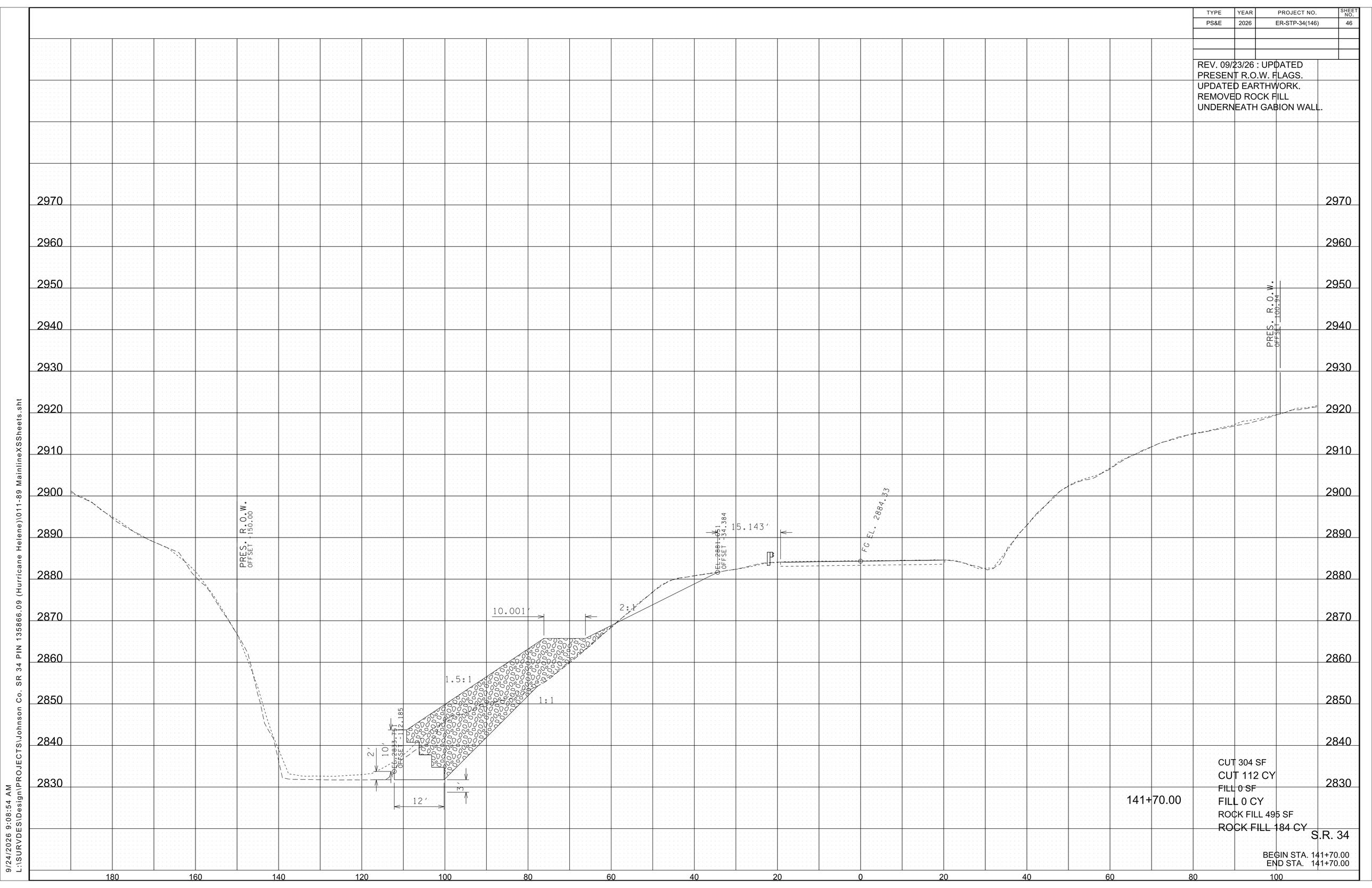
S.R. 34

BEGIN STA. 141+60.00
END STA. 141+60.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	46

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



141+70.00

CUT 304 SF
CUT 112 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 495 SF
ROCK FILL 184 CY

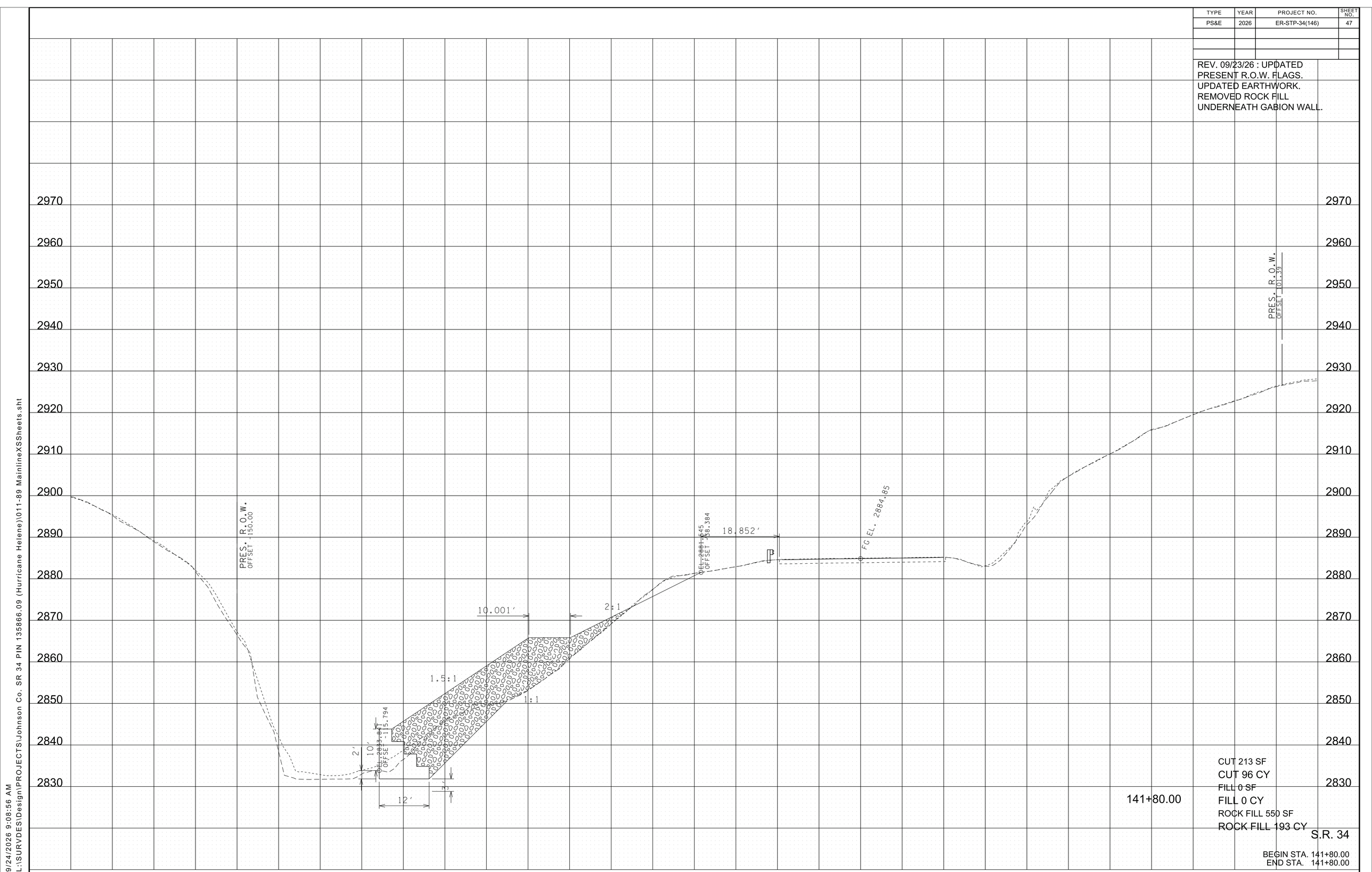
S.R. 34

BEGIN STA. 141+70.00
END STA. 141+70.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	47

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



CUT 213 SF
CUT 96 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 550 SF
ROCK FILL 193 CY

141+80.00

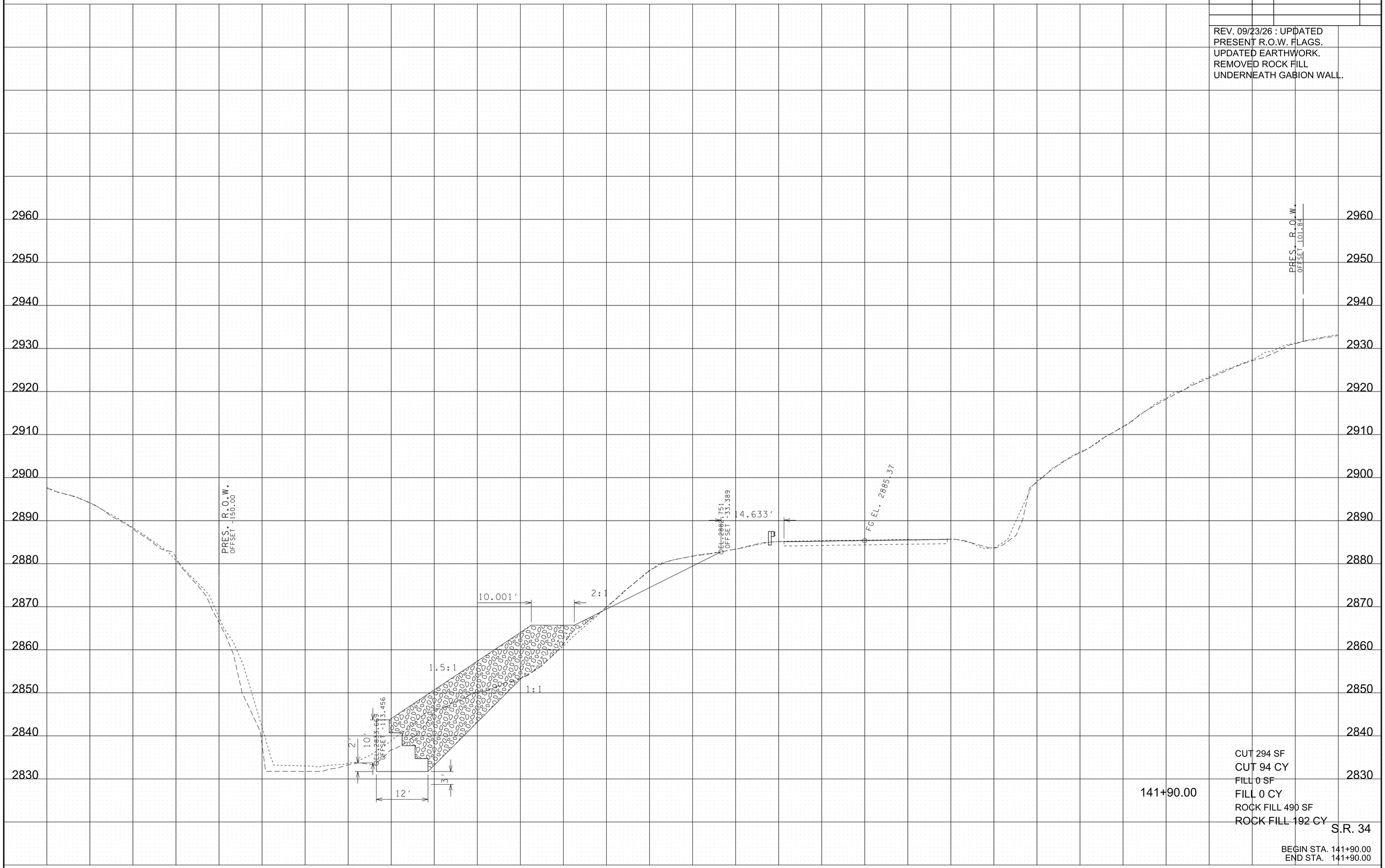
S.R. 34

BEGIN STA. 141+80.00
END STA. 141+80.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	48

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



CUT 294 SF
CUT 94 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 490 SF
ROCK FILL 192 CY

141+90.00

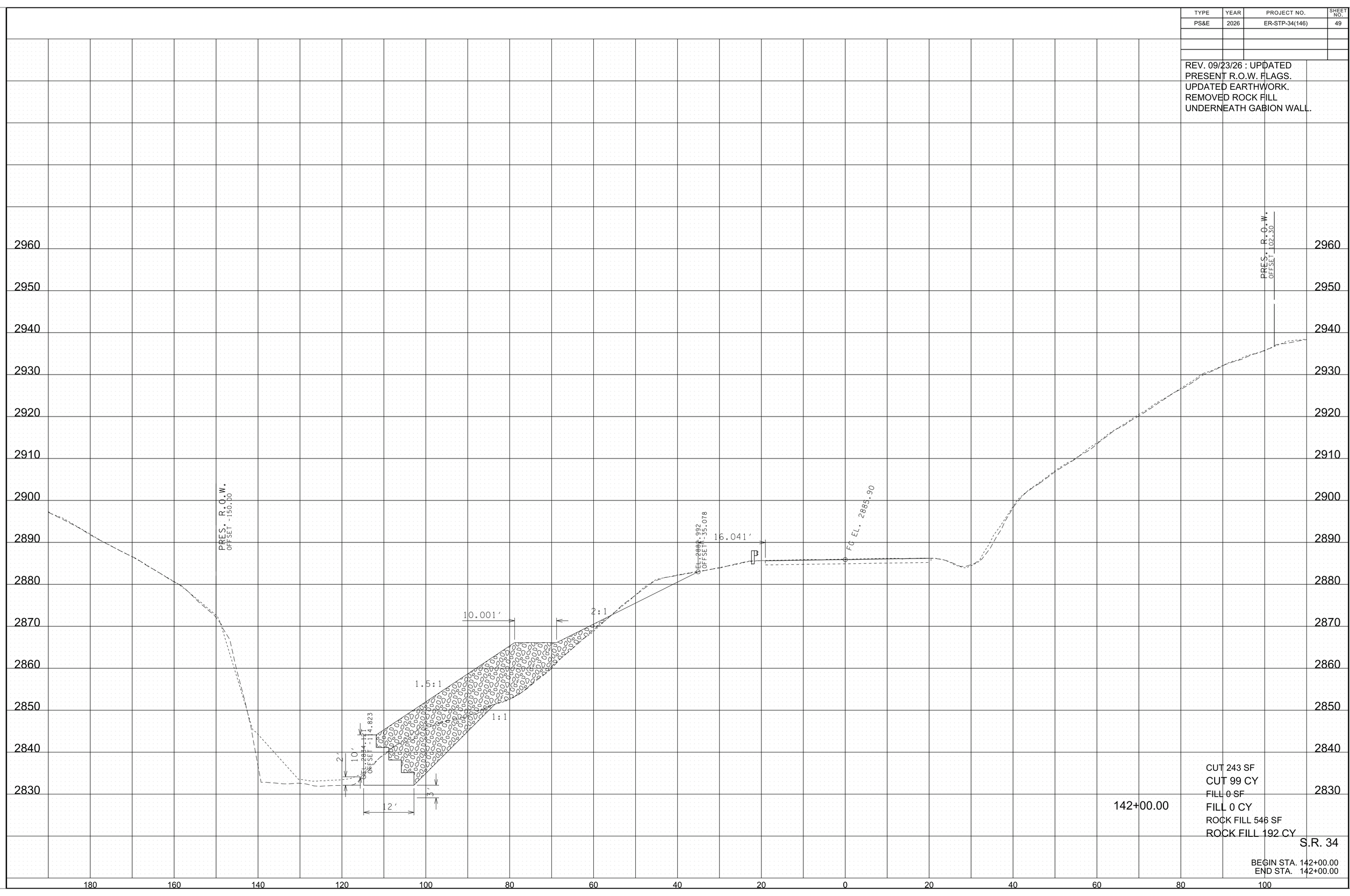
S.R. 34

BEGIN STA. 141+90.00
END STA. 141+90.00

9/24/2026 9:08:58 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	49

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



142+00.00

CUT 243 SF
CUT 99 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 546 SF
ROCK FILL 192 CY

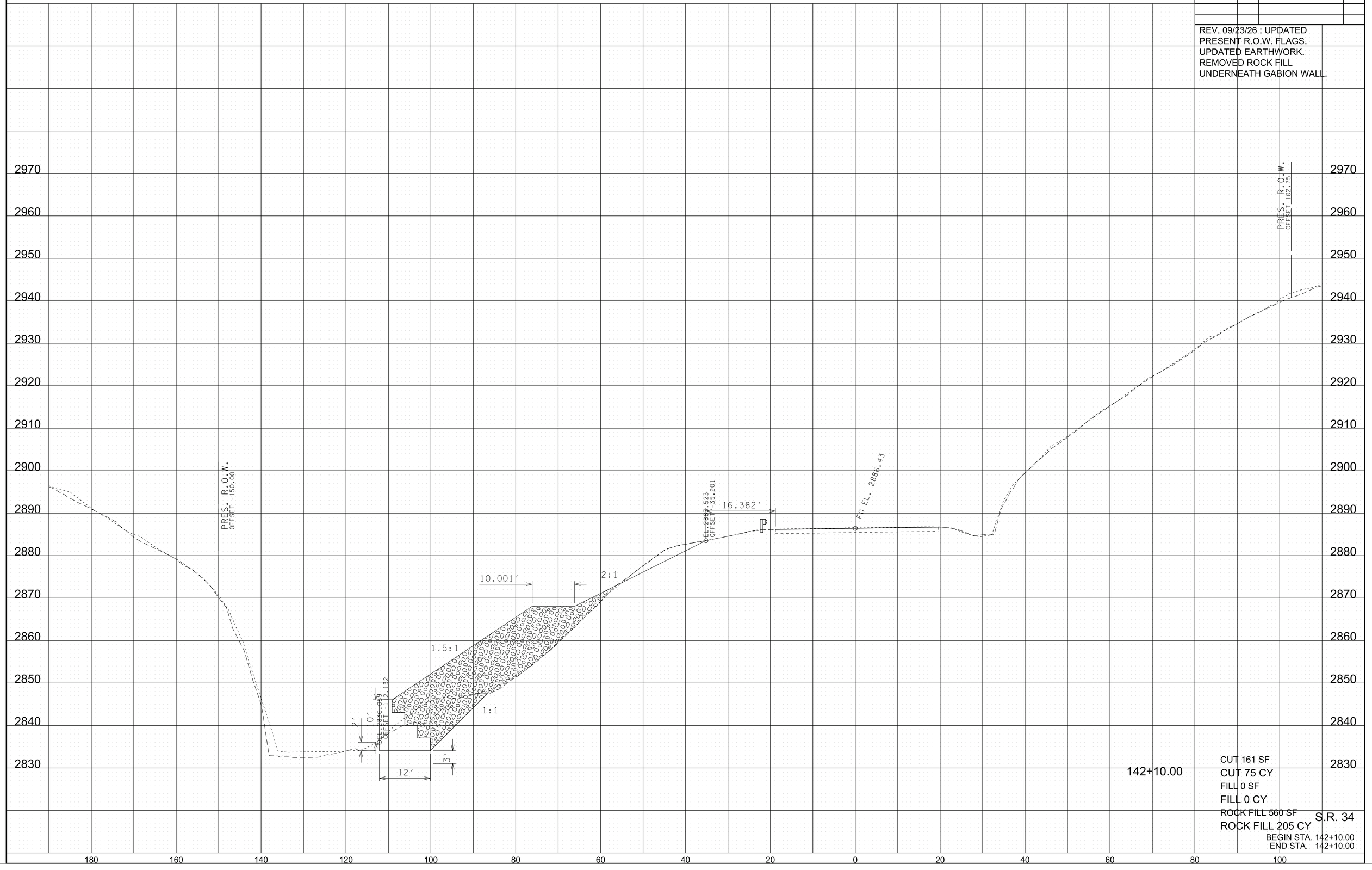
S.R. 34

BEGIN STA. 142+00.00
END STA. 142+00.00

9/24/2026 9:09:00 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	50

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



142+10.00

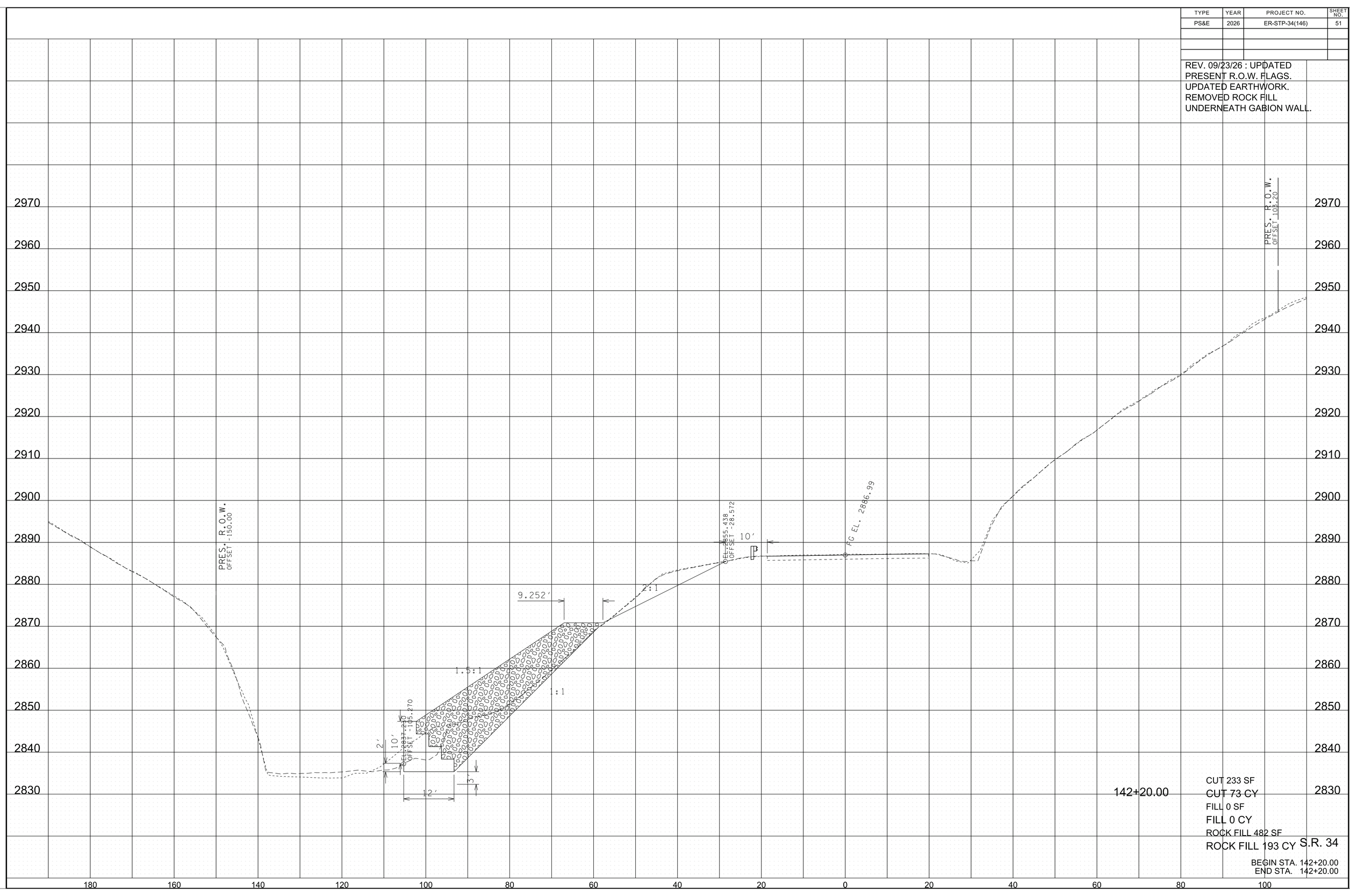
CUT 161 SF
CUT 75 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 560 SF
ROCK FILL 205 CY

S.R. 34
BEGIN STA. 142+10.00
END STA. 142+10.00

9/24/2026 9:09:02 AM
L:\SURVDES\Design\PROJECTS\Johnson Co. SR 34 PIN 135866.09 (Hurricane Helene)\011-89 MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	51

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



142+20.00

CUT 233 SF
CUT 73 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 482 SF
ROCK FILL 193 CY

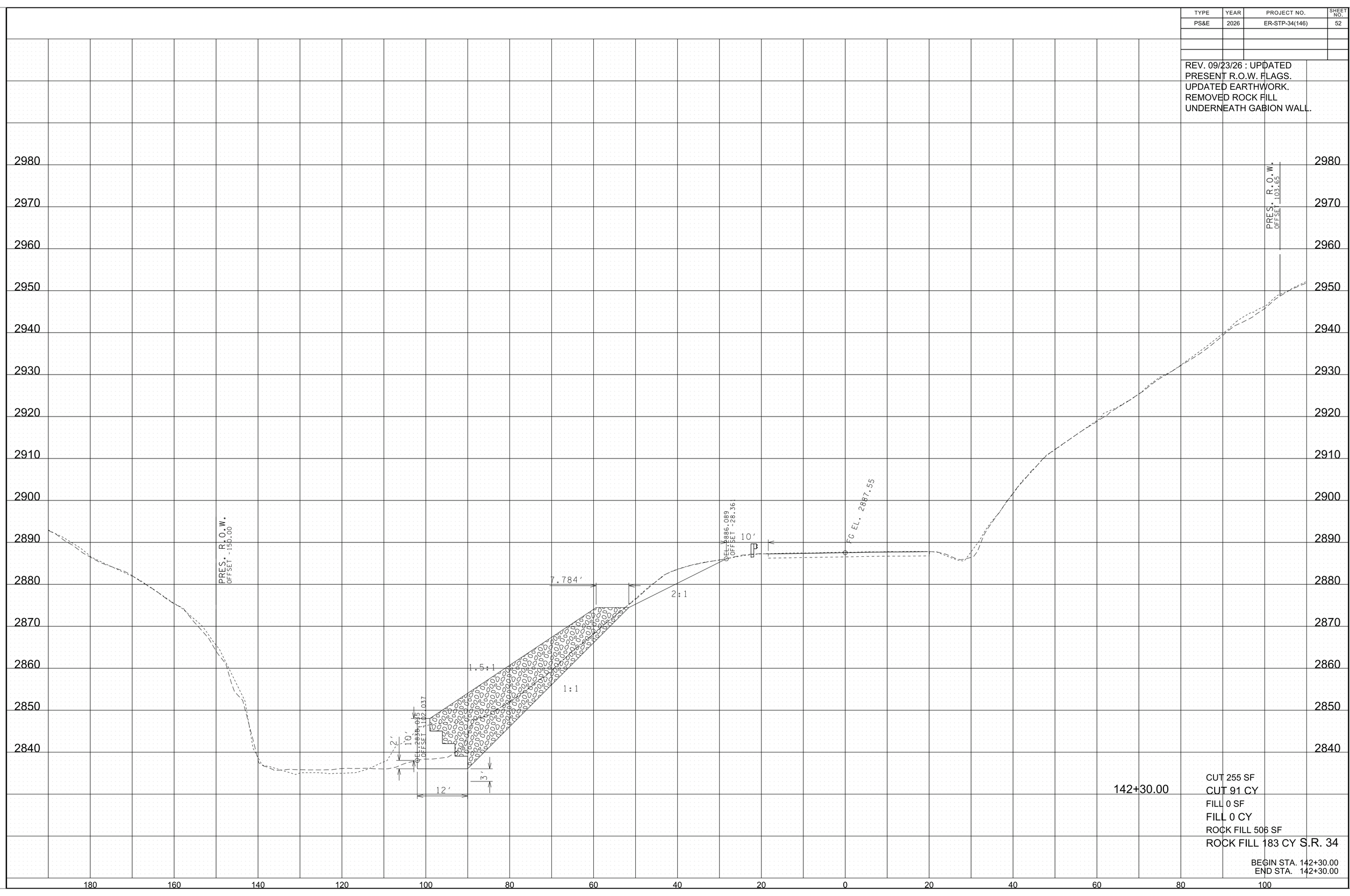
S.R. 34

BEGIN STA. 142+20.00
END STA. 142+20.00

9/24/2026 9:09:04 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	52

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



142+30.00

CUT 255 SF
CUT 91 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 506 SF
ROCK FILL 183 CY

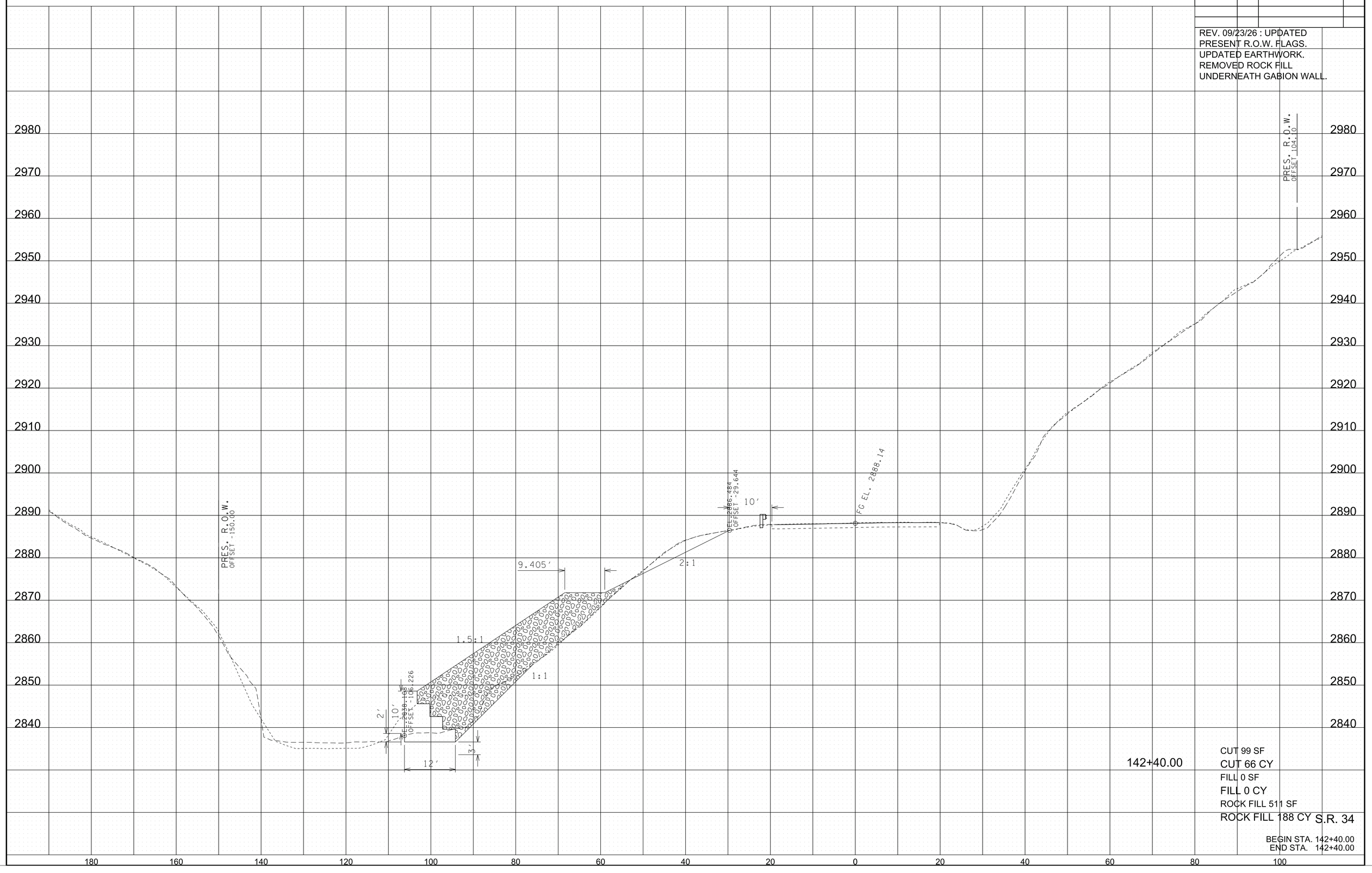
S.R. 34

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	53

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



142+40.00

CUT 99 SF
CUT 66 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 511 SF
ROCK FILL 188 CY

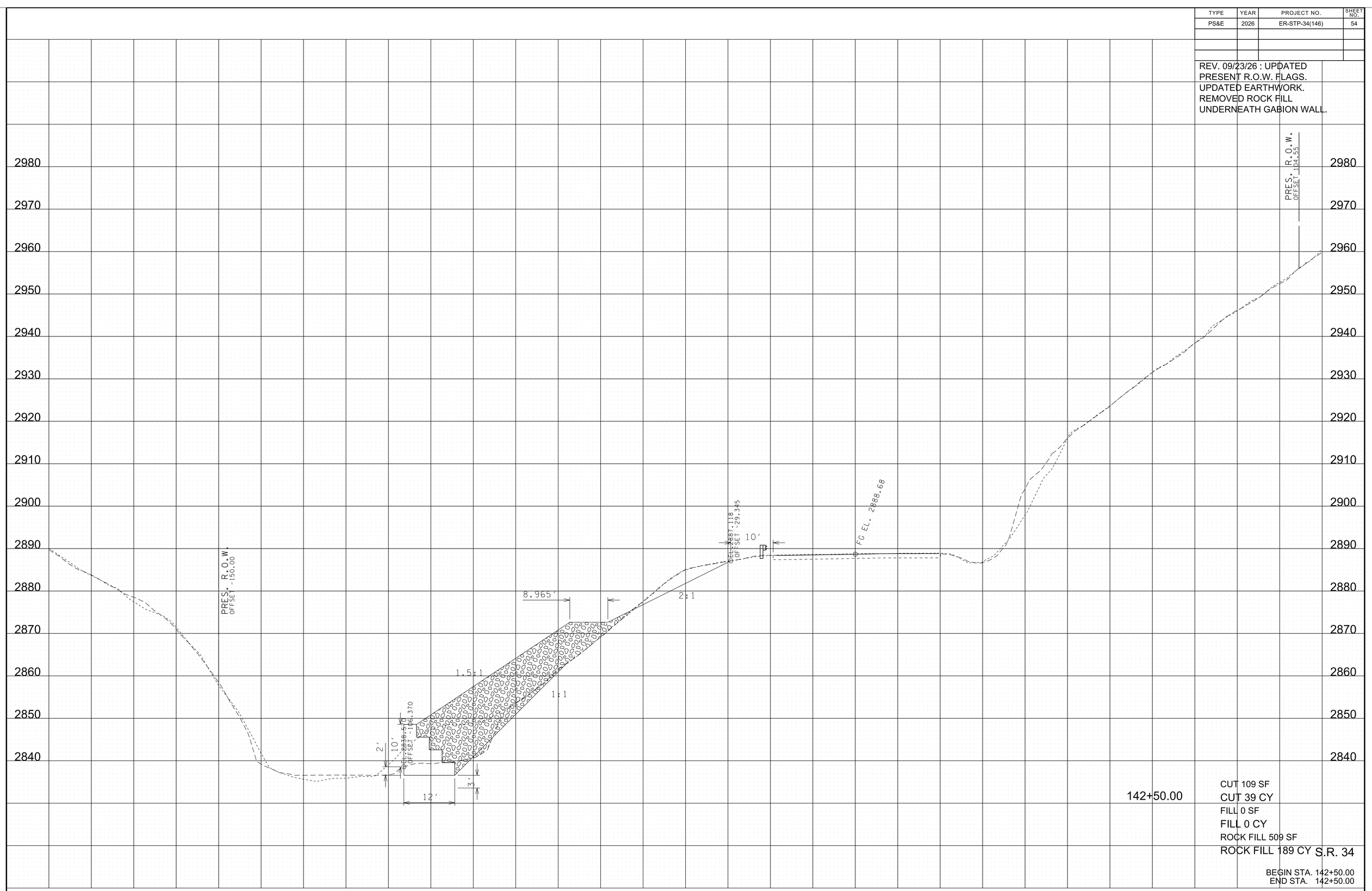
S.R. 34

BEGIN STA. 142+40.00
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	54

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



142+50.00

CUT 109 SF
CUT 39 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 509 SF
ROCK FILL 189 CY

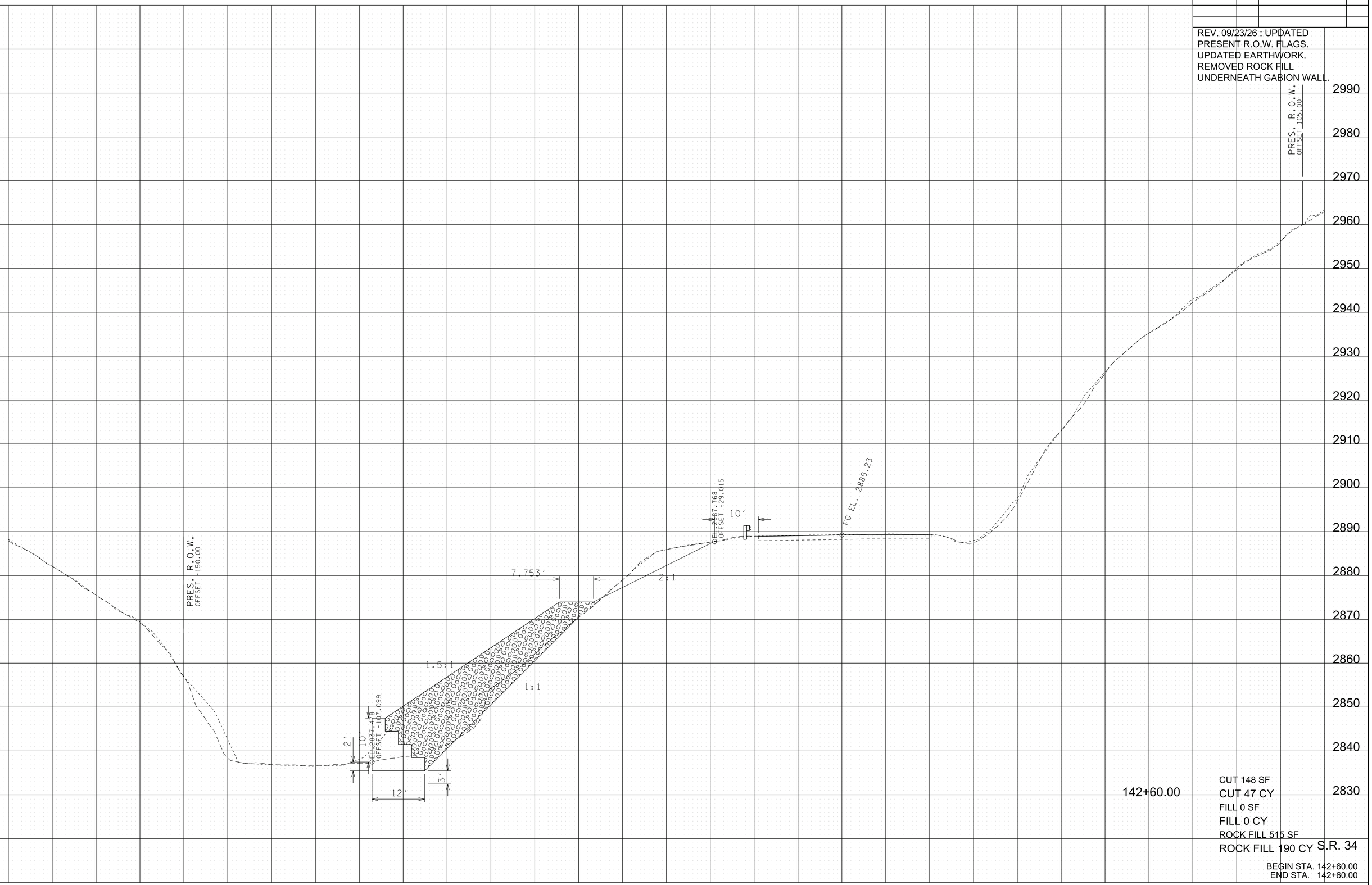
S.R. 34

BEGIN STA. 142+50.00
END STA. 142+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	55

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



142+60.00

CUT 148 SF
CUT 47 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 515 SF
ROCK FILL 190 CY

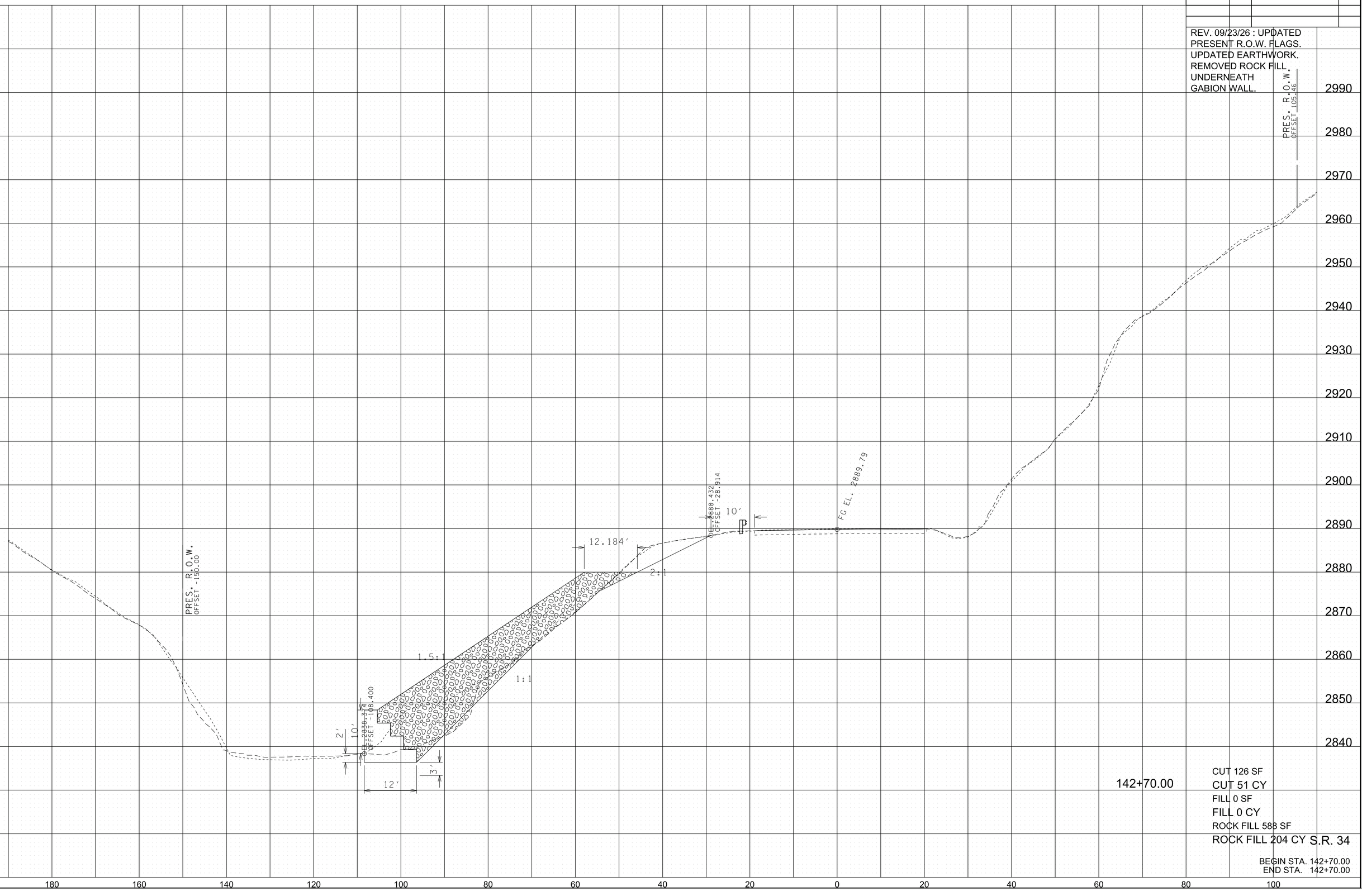
S.R. 34

BEGIN STA. 142+60.00
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	56

REV. 09/23/26 : UPDATED PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL UNDERNEATH GABION WALL.



142+70.00

CUT 126 SF
CUT 51 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 588 SF
ROCK FILL 204 CY

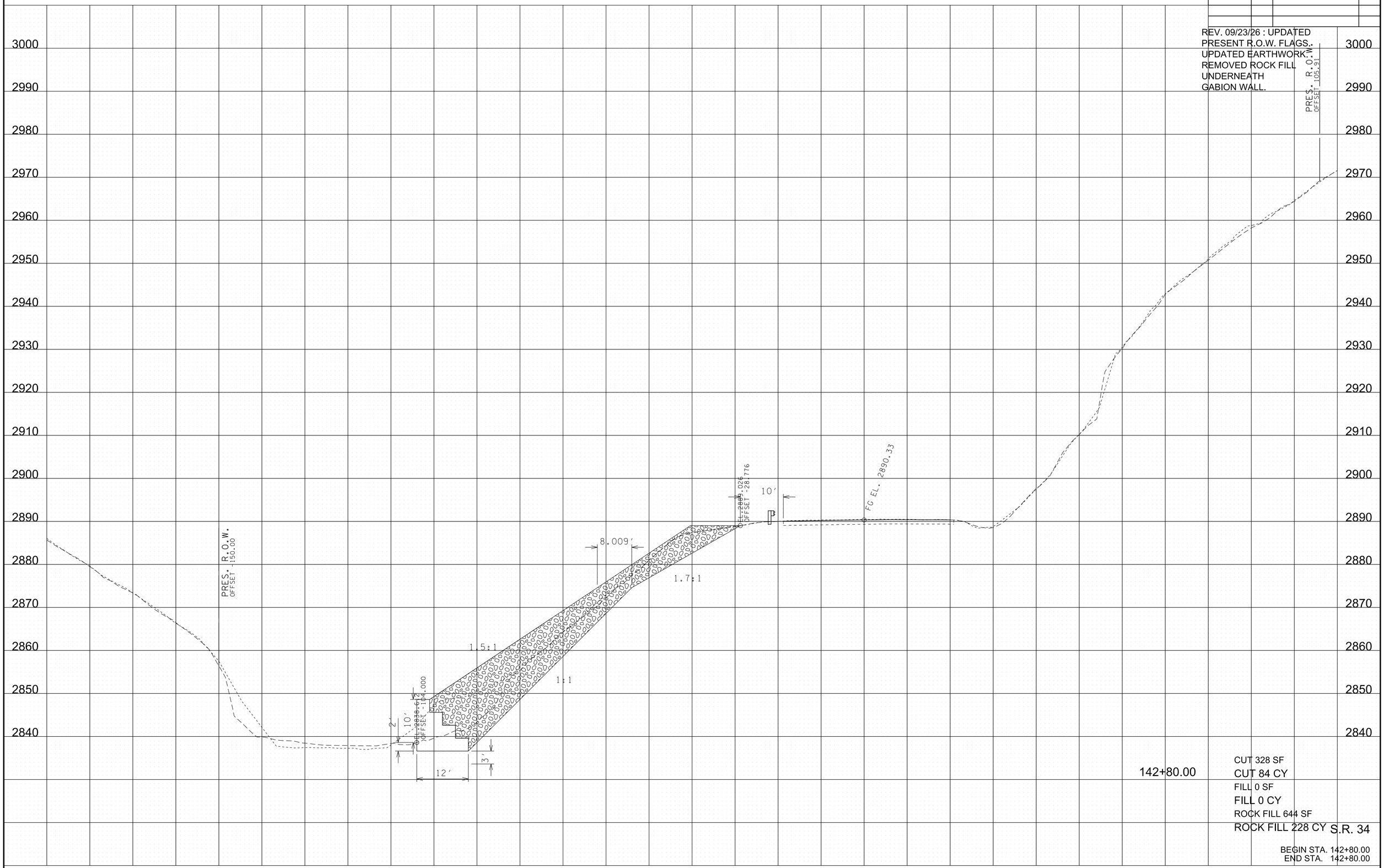
S.R. 34

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	57

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS..
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH
GABION WALL.



142+80.00

CUT 328 SF
CUT 84 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 644 SF
ROCK FILL 228 CY

S.R. 34

BEGIN STA. 142+80.00
END STA. 142+80.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	58

REV. 09/23/26 : UPDATED PRESENT R.O.W. FLAGS, UPDATED EARTHWORK, REMOVED ROCK FILL UNDERNEATH GABION WALL.

3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840

PRES. R.O.W. OFFSET 106.16

PRES. R.O.W. OFFSET 150.00

9.792'

EL. 2888.283 OFFSET -33.484

FG EL. 2890.87

8.033'

1.5:1

1.5:1

1:1

EL. 2836.833 OFFSET -10.000

2'

10'

3'

12'

142+90.00

CUT 516 SF
CUT 156 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 622 SF
ROCK FILL 235 CY

S.R. 34

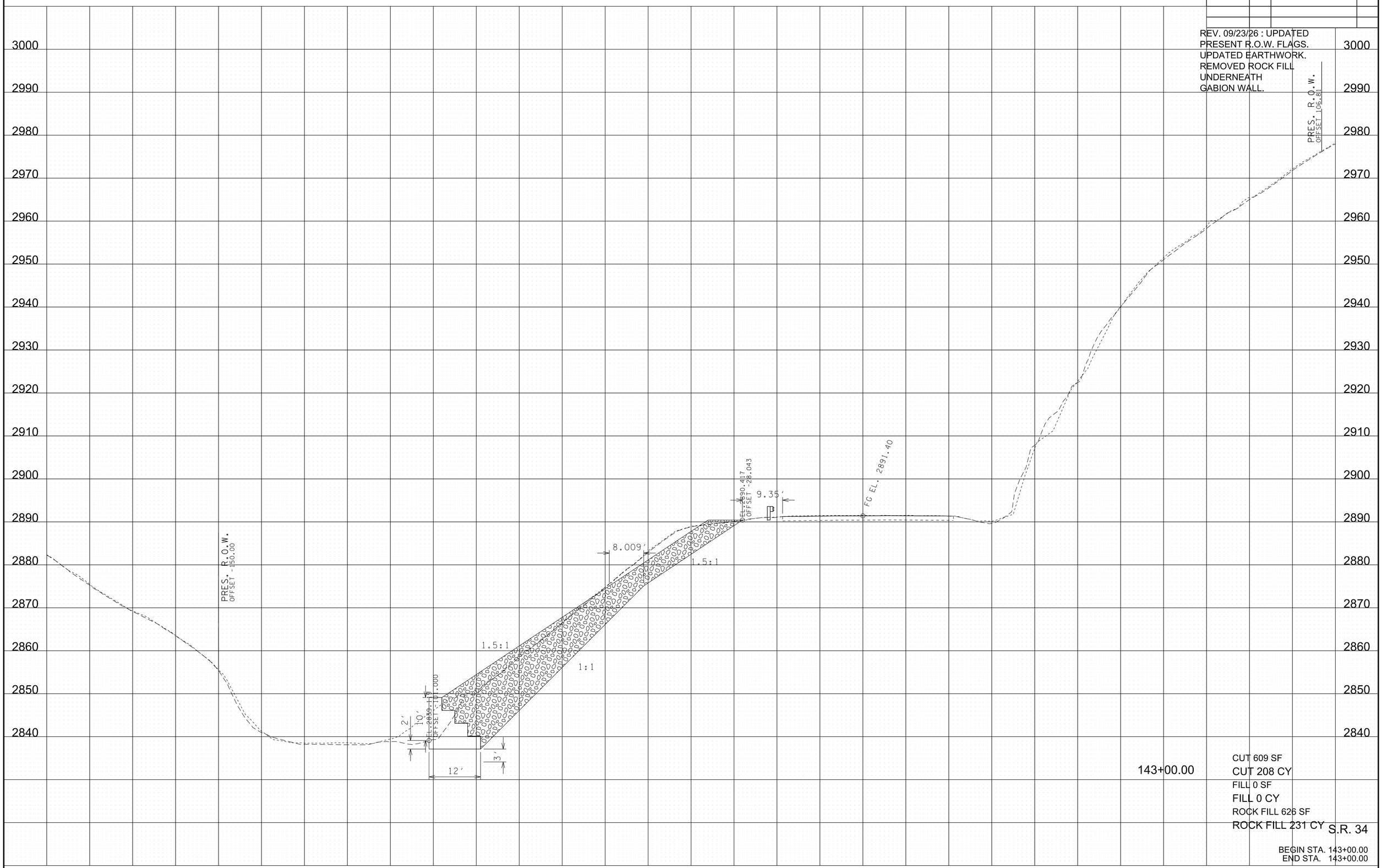
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END STA. 142+90.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	59

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH
GABION WALL.



143+00.00

CUT 609 SF
CUT 208 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 626 SF
ROCK FILL 231 CY

S.R. 34

BEGIN STA. 143+00.00
END STA. 143+00.00

9/24/2026 9:09:19 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	60

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH
GABION WALL.

PRES. R.O.W.
OFFSET 107.26

PRES. R.O.W.
OFFSET -150.00

EL. 2890.297
OFFSET -28.693

9.757'

FG EL. 2891.90

8.002'

1.5:1

1.5:1

1:1

2'

10'

EL. 2883.974
OFFSET -11.000

3'

12'

143+10.00

CUT 645 SF
CUT 232 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 624 SF
ROCK FILL 231 CY

S.R. 34

BEGIN STA. 143+10.00
END STA. 143+10.00

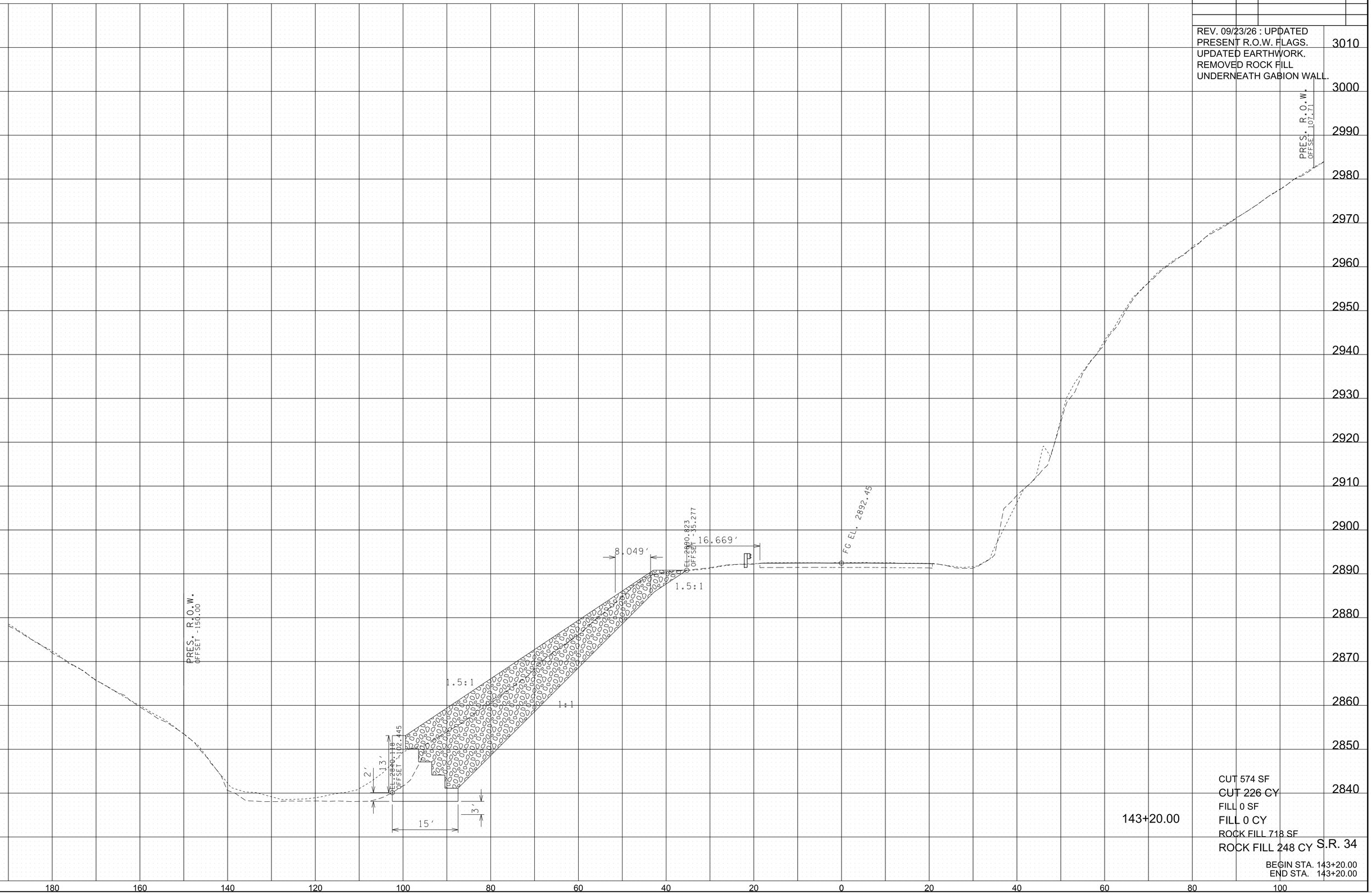
3000 2990 2980 2970 2960 2950 2940 2930 2920 2910 2900 2890 2880 2870 2860 2850 2840

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

9/24/2026 9:09:21 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	61

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



143+20.00

CUT 574 SF
CUT 226 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 718 SF
ROCK FILL 248 CY

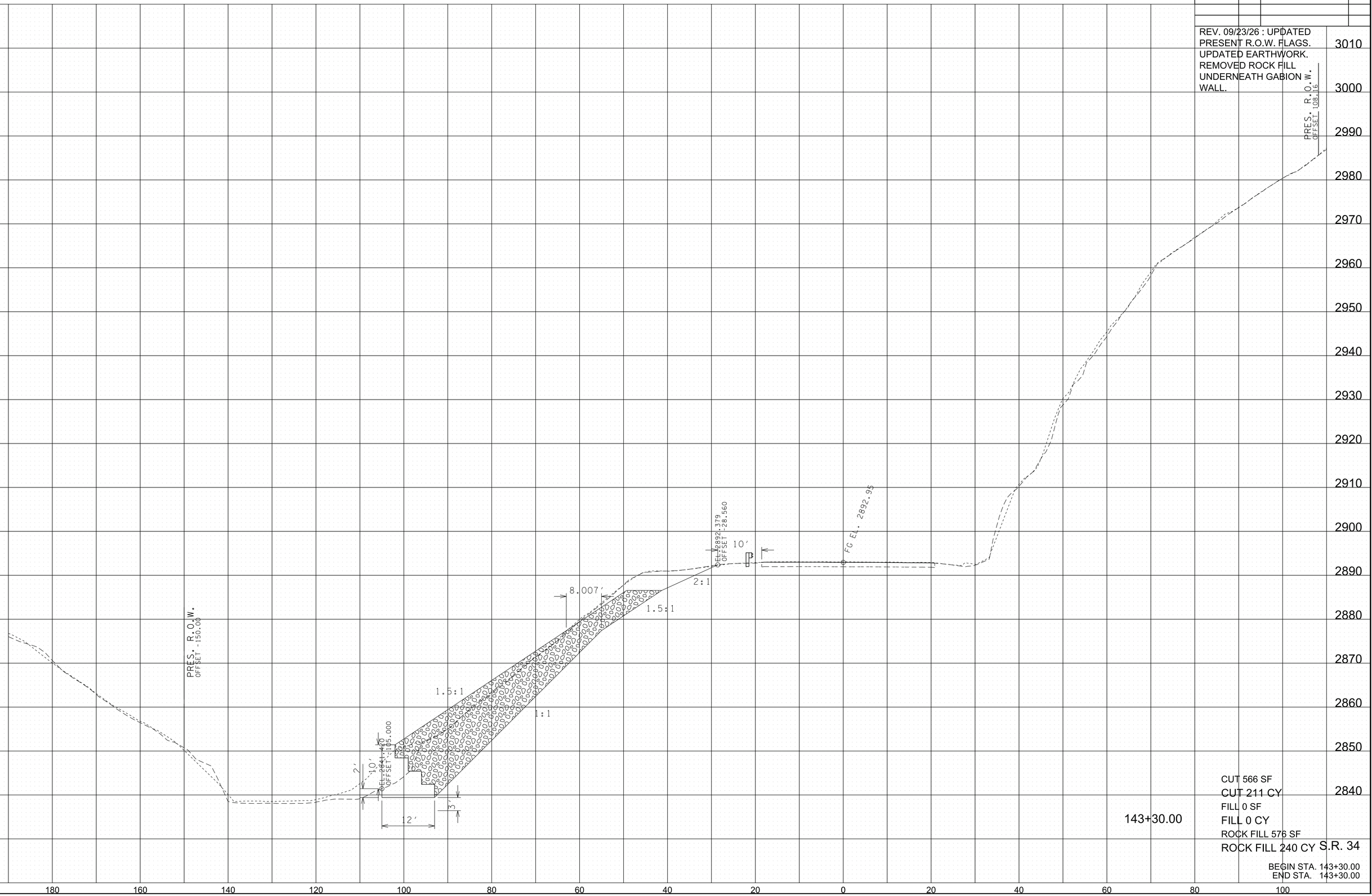
S.R. 34

BEGIN STA. 143+20.00
END STA. 143+20.00

9/24/2026 9:09:23 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	62

REV. 09/23/26 : UPDATED PRESENT R.O.W. FLAGS. UPDATED EARTHWORK. REMOVED ROCK FILL UNDERNEATH GABION WALL.



CUT 566 SF
CUT 211 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 576 SF
ROCK FILL 240 CY

143+30.00

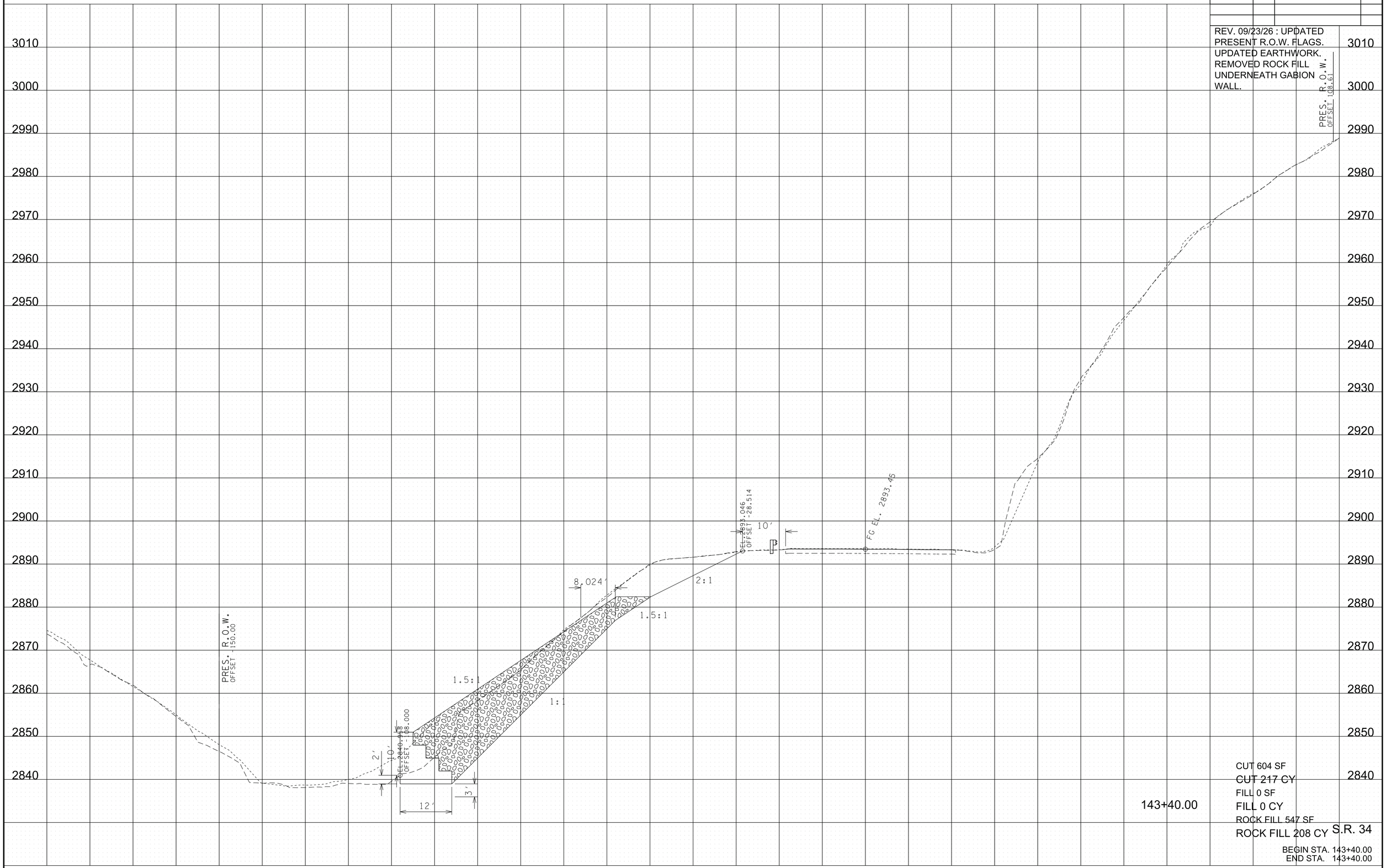
S.R. 34

BEGIN STA. 143+30.00
END STA. 143+30.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	63

REV. 09/23/26 : UPDATED PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL UNDERNEATH GABION WALL.



143+40.00

CUT 604 SF
CUT 217 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 547 SF
ROCK FILL 208 CY

S.R. 34

BEGIN STA. 143+40.00
END STA. 143+40.00

9/24/2026 9:09:26 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	64

REV. 09/23/26 : UPDATED PRESENT R.O.W. FLAGS. UPDATED EARTHWORK. REMOVED ROCK FILL UNDERNEATH GABION WALL.

PRES. R.O.W. OFFSET 109.07'

PRES. R.O.W. OFFSET -150.00

2' 10' 12' 3' 1.5:1 1:1 7.995' 2:1 10'

CL EL. 2842.291 OFFSET -109.000

CL EL. 2893.585 OFFSET -28.422

FG EL. 2893.95

143+50.00

CUT 708 SF
CUT 243 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 503 SF
ROCK FILL 194 CY

S.R. 34

BEGIN STA. 143+50.00
END STA. 143+50.00

3010 3000 2990 2980 2970 2960 2950 2940 2930 2920 2910 2900 2890 2880 2870 2860 2850 2840

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

9/24/2026 9:09:28 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	65

REV. 09/23/26 :
UPDATED PRESENT R.O.W. FLAGS AND GRID BOUNDARY.
UPDATED EARTHWORK.
REMOVED ROCK FILL UNDERNEATH GABION WALL.

3010
3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840

PRES. R.O.W.
OFFSET -150.00

PRES. R.O.W.
OFFSET 109.52

EL. 2897.591
OFFSET 35.191

16.869'

FG EL. 2894.41

2:1

8.07'

1.5:1

1:1

2'
10'
3'
12'

EL. 2840.276
OFFSET -120.000

143+60.00

CUT 585 SF
CUT 239 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 502 SF
ROCK FILL 186 CY S.R. 34

BEGIN STA. 143+60.00
END STA. 143+60.00

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

9/24/2026 9:09:30 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	66

REV. 09/23/26 :
UPDATED PRESENT R.O.W. FLAGS AND GRID BOUNDARY.
UPDATED EARTHWORK.
REMOVED ROCK FILL UNDERNEATH GABION WALL.

PRES. R.O.W.
OFFSET 109.97

PRES. R.O.W.
OFFSET -150.00

EL. 2842.077
OFFSET -120.000

2'
10'
12'
3'

1.5:1
1:1
2:1

8.013'

EL. 2883.039
OFFSET 138.252

20.032'

FG EL. 2894.87

143+70.00

CUT 605 SF
CUT 220 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 503 SF
ROCK FILL 186 CY

S.R. 34

BEGIN STA. 143+70.00
END STA. 143+70.00

3010 3000 2990 2980 2970 2960 2950 2940 2930 2920 2910 2900 2890 2880 2870 2860 2850 2840

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

9/24/2026 9:09:32 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	67

REV. 09/23/26 :
UPDATED PRESENT R.O.W. FLAGS AND GRID BOUNDARY.
UPDATED EARTHWORK.
REMOVED ROCK FILL UNDERNEATH GABION WALL.

3010
3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840

PRES. R.O.W.
OFFSET -150.00

EL. 2843.778
OFFSET -126.774

2'
10'
3'
12'

1.5:1
1:1

8.014'
2:1

EL. 2893.896
OFFSET -47.609

29.493'

FG EL. 2895.32

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

143+80.00

CUT 292 SF
CUT 166 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 503 SF
ROCK FILL 186 CY

S.R. 34

BEGIN STA. 143+80.00
END STA. 143+80.00

9/24/2026 9:09:34 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	68

REV. 09/23/26 :
UPDATED PRESENT R.O.W. FLAGS AND GRID BOUNDARY.
UPDATED EARTHWORK.
REMOVED ROCK FILL UNDERNEATH GABION WALL.

3010
3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840

PRES. R.O.W.
OFFSET -150.00

EL. 2844.017
OFFSET -126.798

2'
10'
12'
3'

1.5:1
1:1
2:1
8.005'
30.121'

EL. 2894.273
OFFSET -48.265

FG EL. 2895.76

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

143+90.00

CUT 312 SF
CUT 112 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 503 SF
ROCK FILL 186 CY

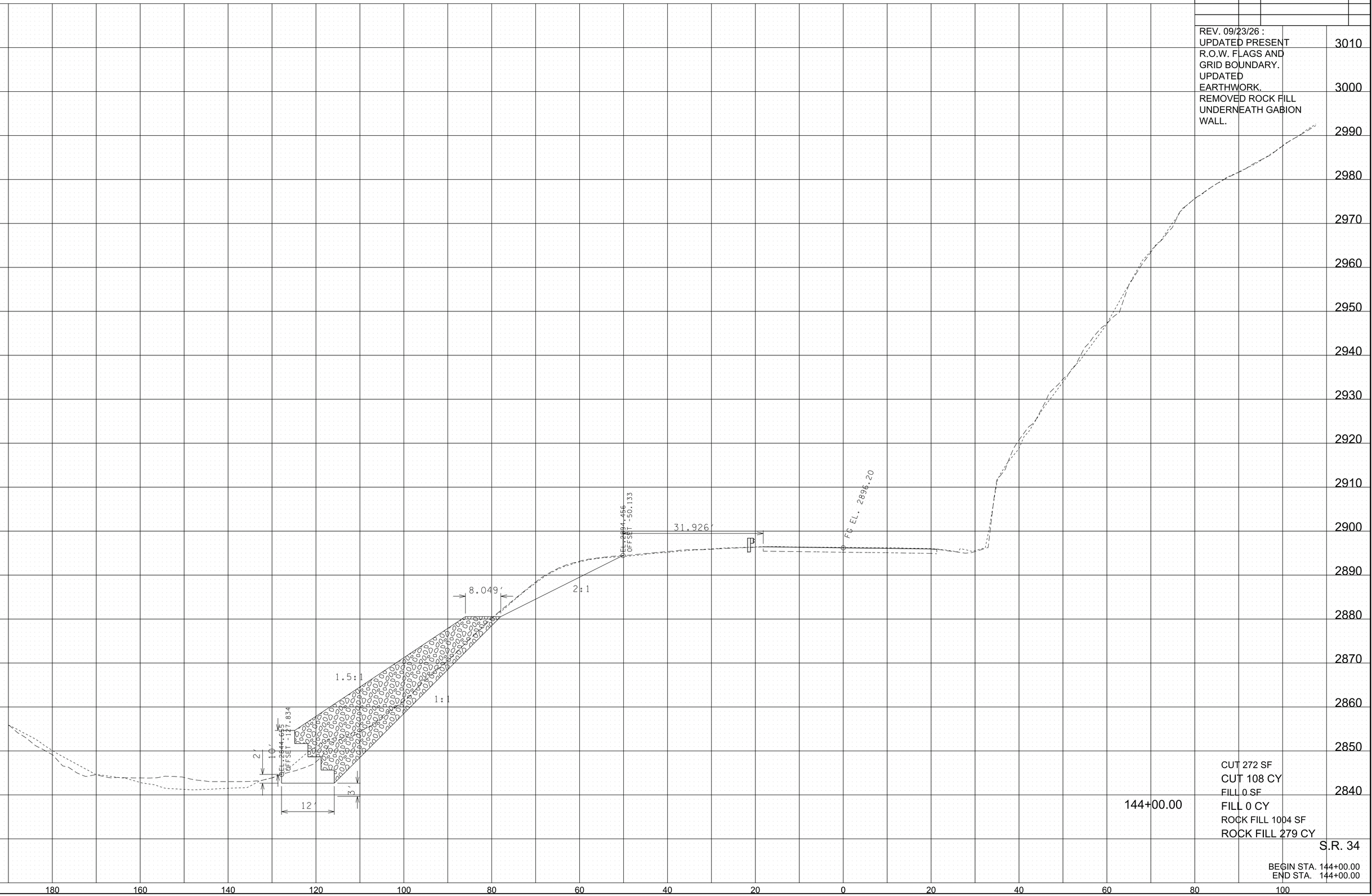
S.R. 34

BEGIN STA. 143+90.00
END STA. 143+90.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	69

REV. 09/23/26 :
UPDATED PRESENT R.O.W. FLAGS AND GRID BOUNDARY.
UPDATED EARTHWORK.
REMOVED ROCK FILL UNDERNEATH GABION WALL.



144+00.00

CUT 272 SF
CUT 108 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 1004 SF
ROCK FILL 279 CY

S.R. 34

BEGIN STA. 144+00.00
END STA. 144+00.00

9/24/2026 9:09:38 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	70

REV. 09/23/26 :
UPDATED PRESENT R.O.W. FLAGS AND GRID BOUNDARY.
UPDATED EARTHWORK.
REMOVED ROCK FILL UNDERNEATH GABION WALL.

3010
3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

27.186'
FG EL. 2896.63
EL. 2895.259
OFFSET 45.458
8.021'
2:1
1.5:1
1:1
2'
10'
EL. 2845.462
OFFSET 123.215
3'
12'

144+10.00

CUT 460 SF
CUT 135 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 503 SF
ROCK FILL 279 CY

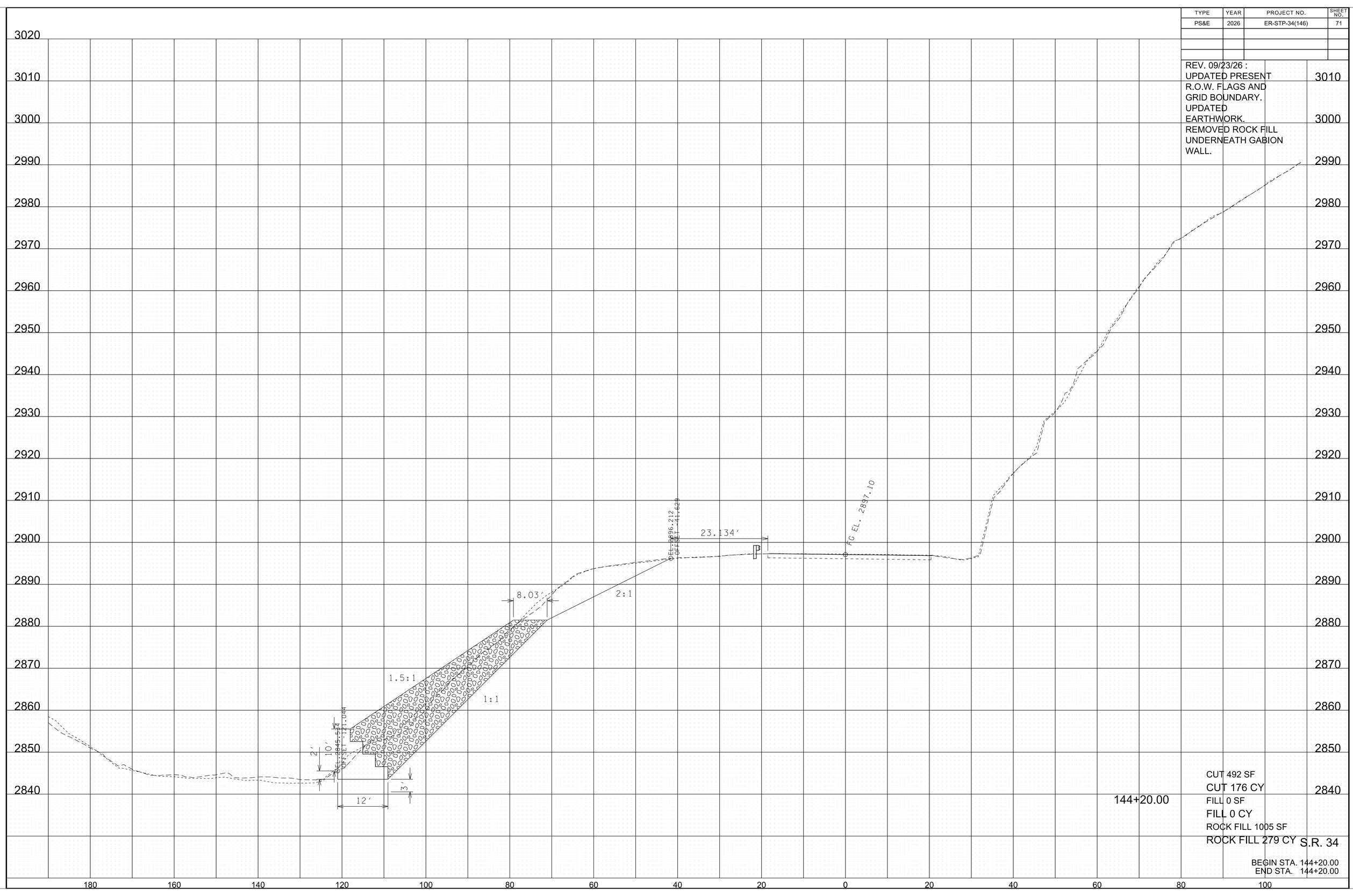
S.R. 34

BEGIN STA. 144+10.00
END STA. 144+10.00

9/24/2026 9:09:40 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	71

REV. 09/23/26 :
UPDATED PRESENT R.O.W. FLAGS AND GRID BOUNDARY.
UPDATED EARTHWORK.
REMOVED ROCK FILL UNDERNEATH GABION WALL.



144+20.00

CUT 492 SF
CUT 176 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 1005 SF
ROCK FILL 279 CY

S.R. 34

BEGIN STA. 144+20.00
END STA. 144+20.00

9/24/2026 9:09:42 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	72

REV. 09/23/26 :
UPDATED PRESENT R.O.W. FLAGS AND GRID BOUNDARY.
UPDATED EARTHWORK.
REMOVED ROCK FILL UNDERNEATH GABION WALL.

3010
3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840

24.527'
FG EL. 2897.53
CL EL. 2896.372
OFFSET -43.022
2:1
8.007'
1.5:1
1.5:1
1:1
2'
10'
CL EL. 2847.543
OFFSET -17.000
3'
12'

144+30.00

CUT 172 SF
CUT 123 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 532 SF
ROCK FILL 285 CY

S.R. 34

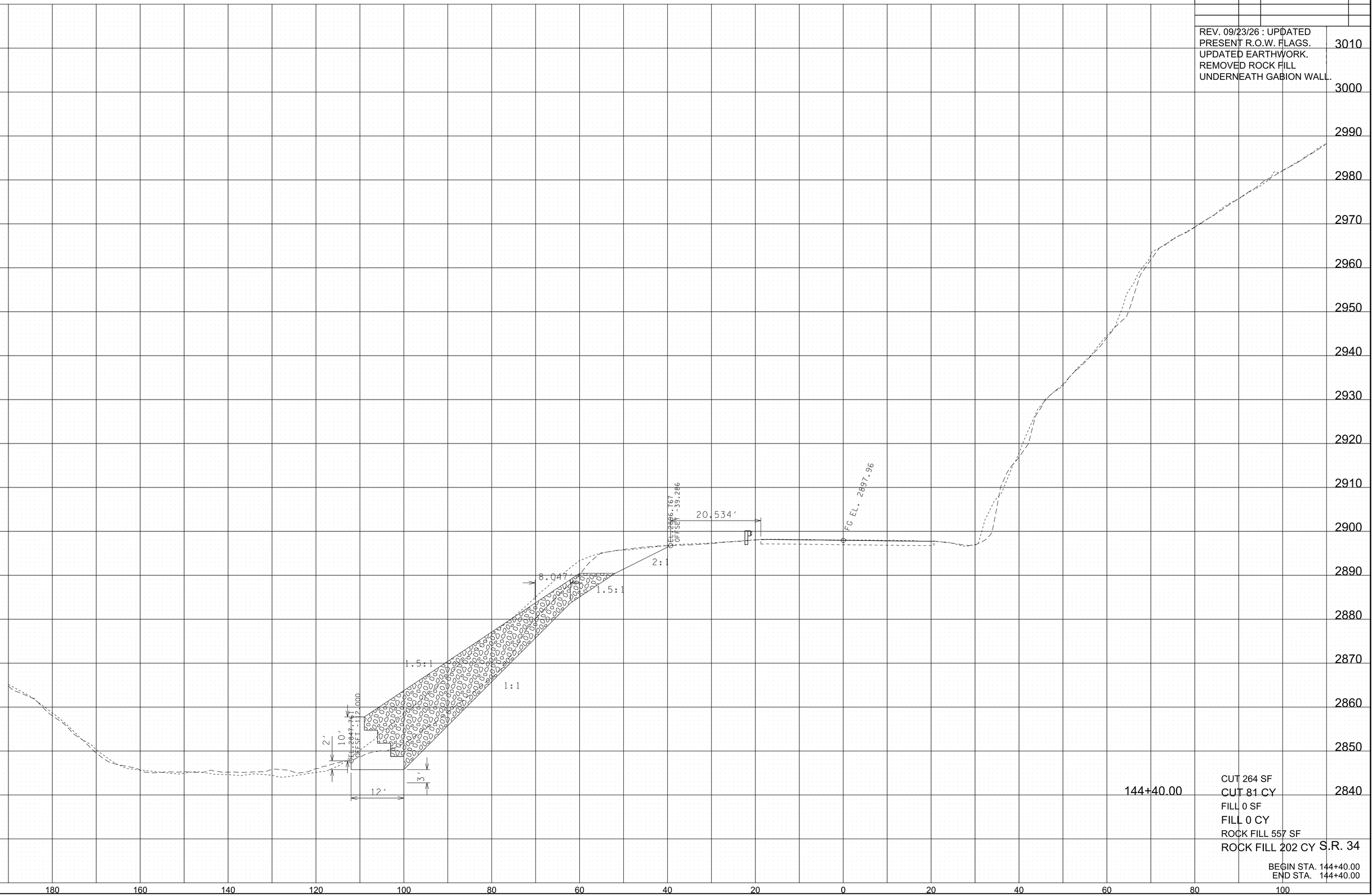
BEGIN STA. 144+30.00
END STA. 144+30.00

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9/24/2026 9:09:44 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	73

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



144+40.00

CUT 264 SF
CUT 81 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 557 SF
ROCK FILL 202 CY

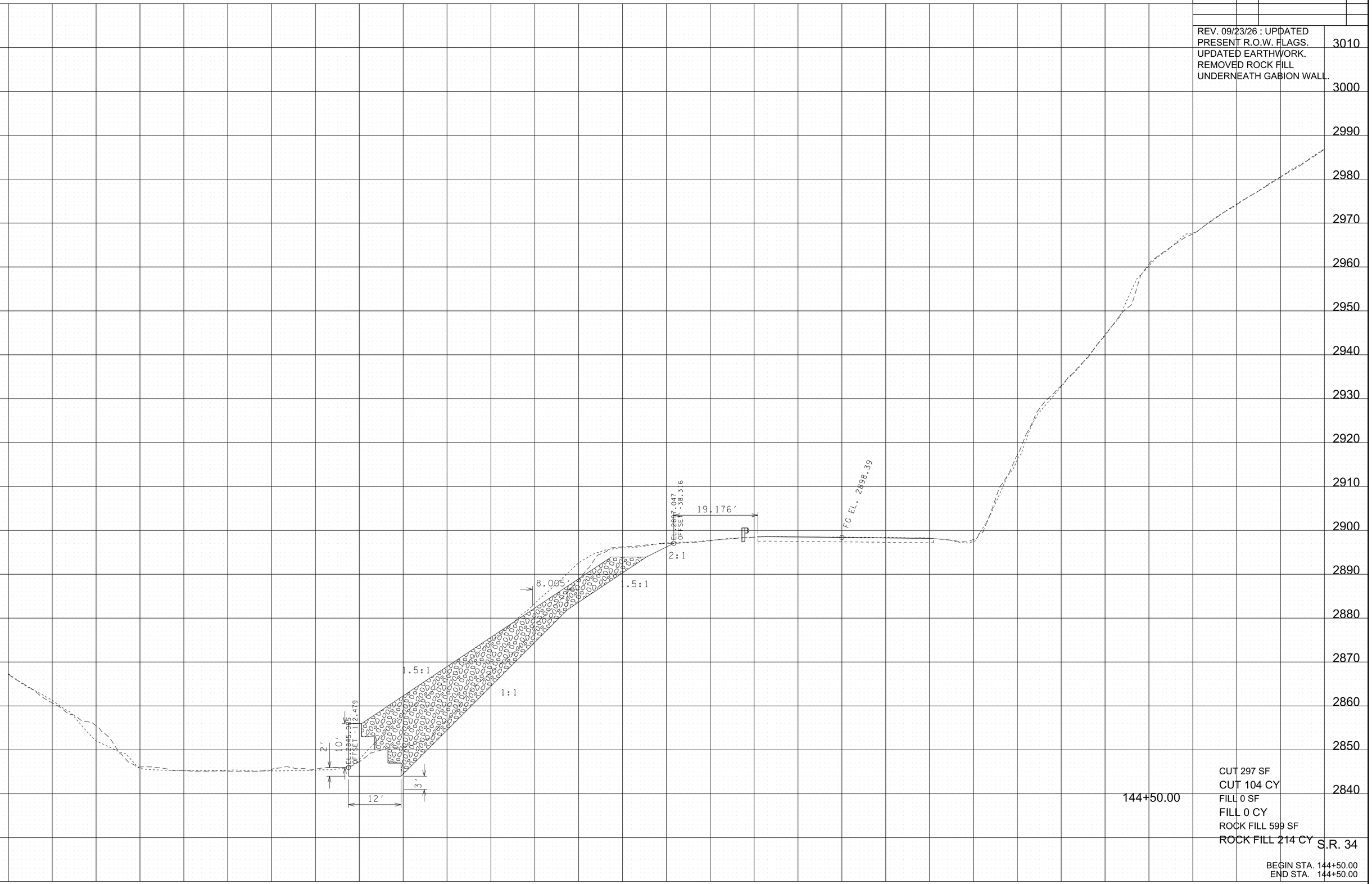
S.R. 34

BEGIN STA. 144+40.00
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	74

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



144+50.00

CUT 297 SF
CUT 104 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 599 SF
ROCK FILL 214 CY

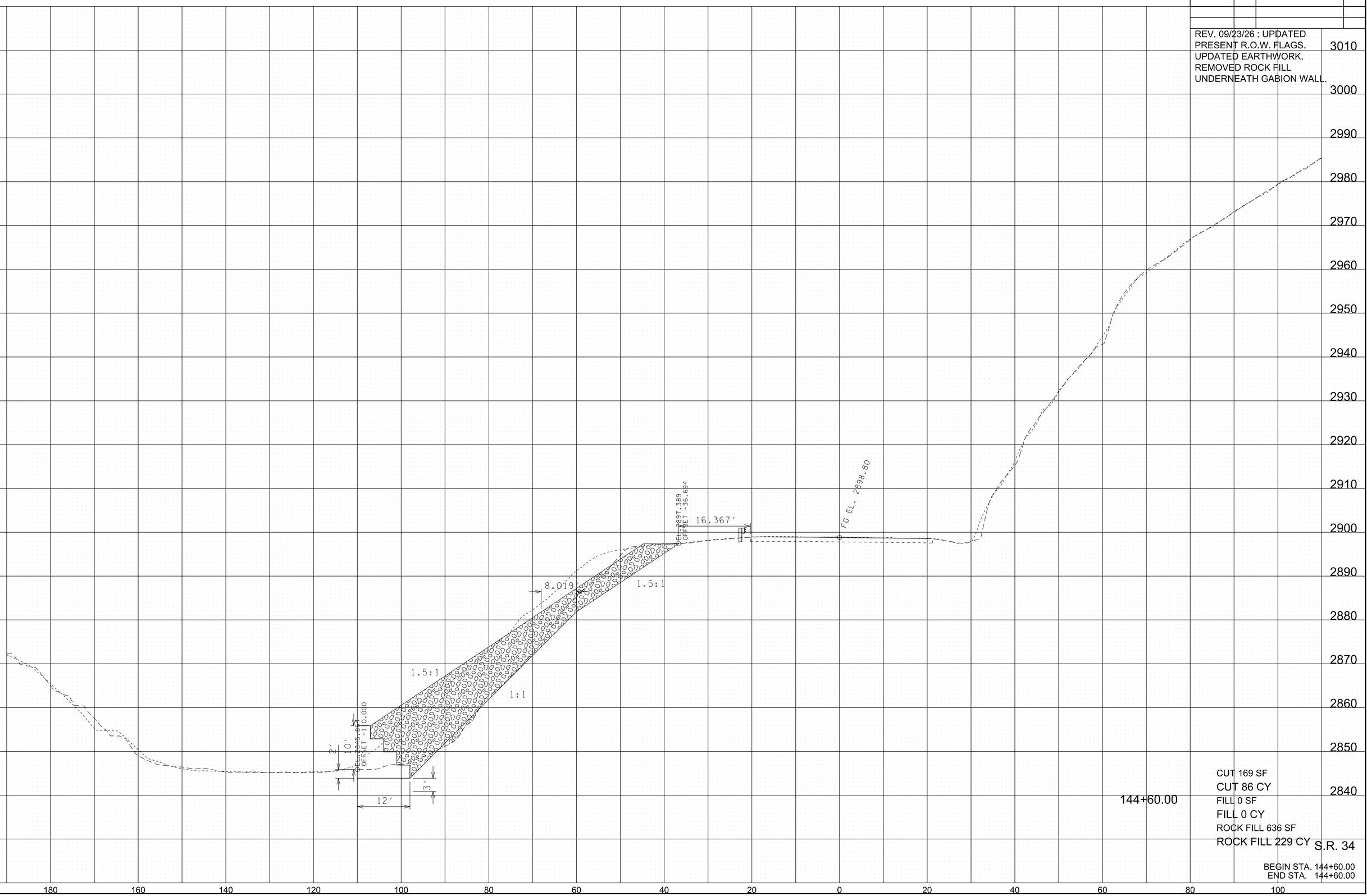
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	75

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



144+60.00

CUT 169 SF
CUT 86 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 636 SF
ROCK FILL 229 CY

S.R. 34

BEGIN STA. 144+60.00
END STA. 144+60.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	76

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.

3010
3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

8.019'
1.5:1
17.012'
ELEV. 2897.807
OFFSET 36.431
FG EL. 2899.20
1.5:1
2'
10'
ELEV. 2846.110
OFFSET 10.000
1:1
3'
12'

144+70.00

CUT 90 SF
CUT 48 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 704 SF
ROCK FILL 248 CY

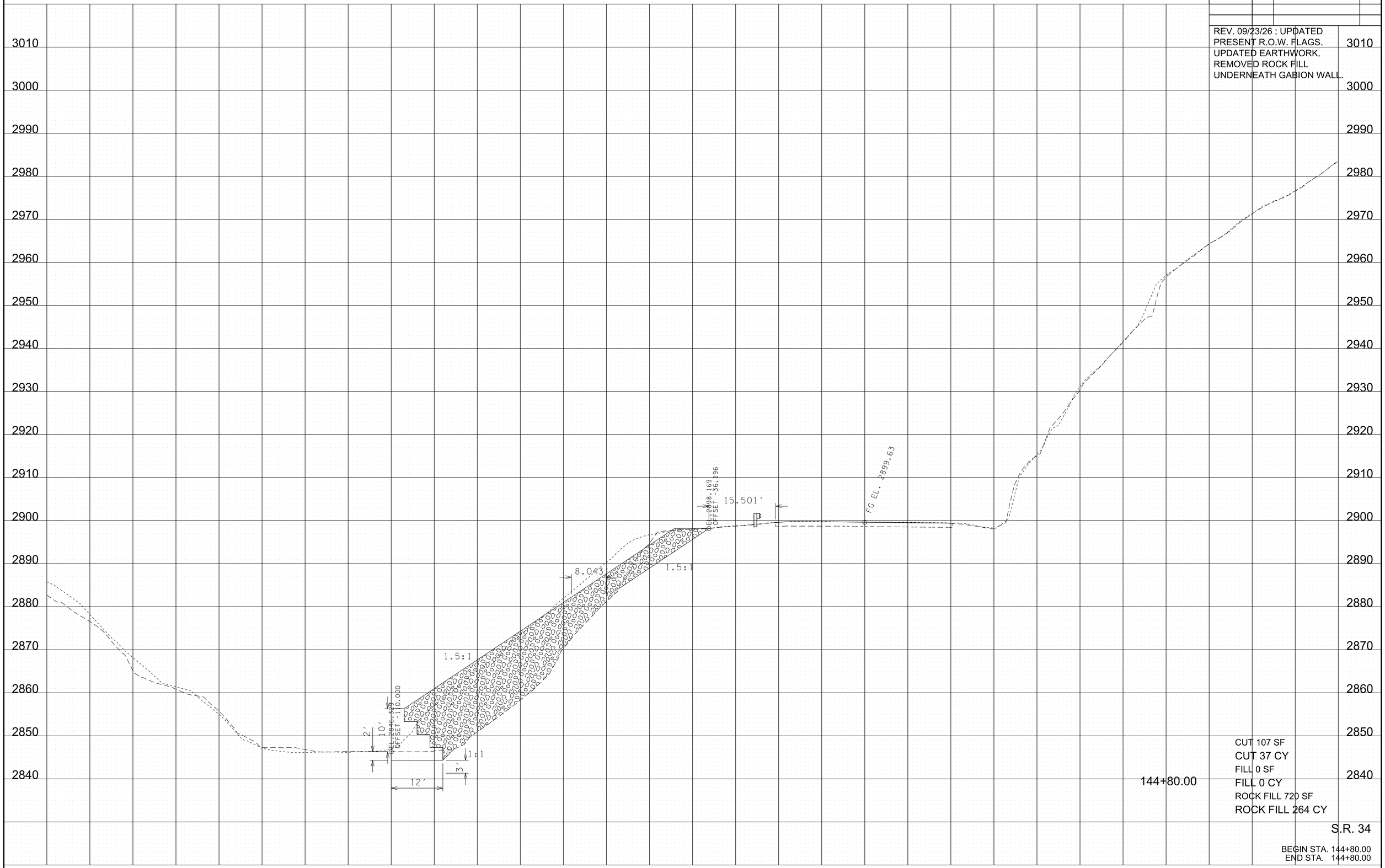
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END STA. 144+70.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	77

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



CUT 107 SF
CUT 37 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 720 SF
ROCK FILL 264 CY

144+80.00

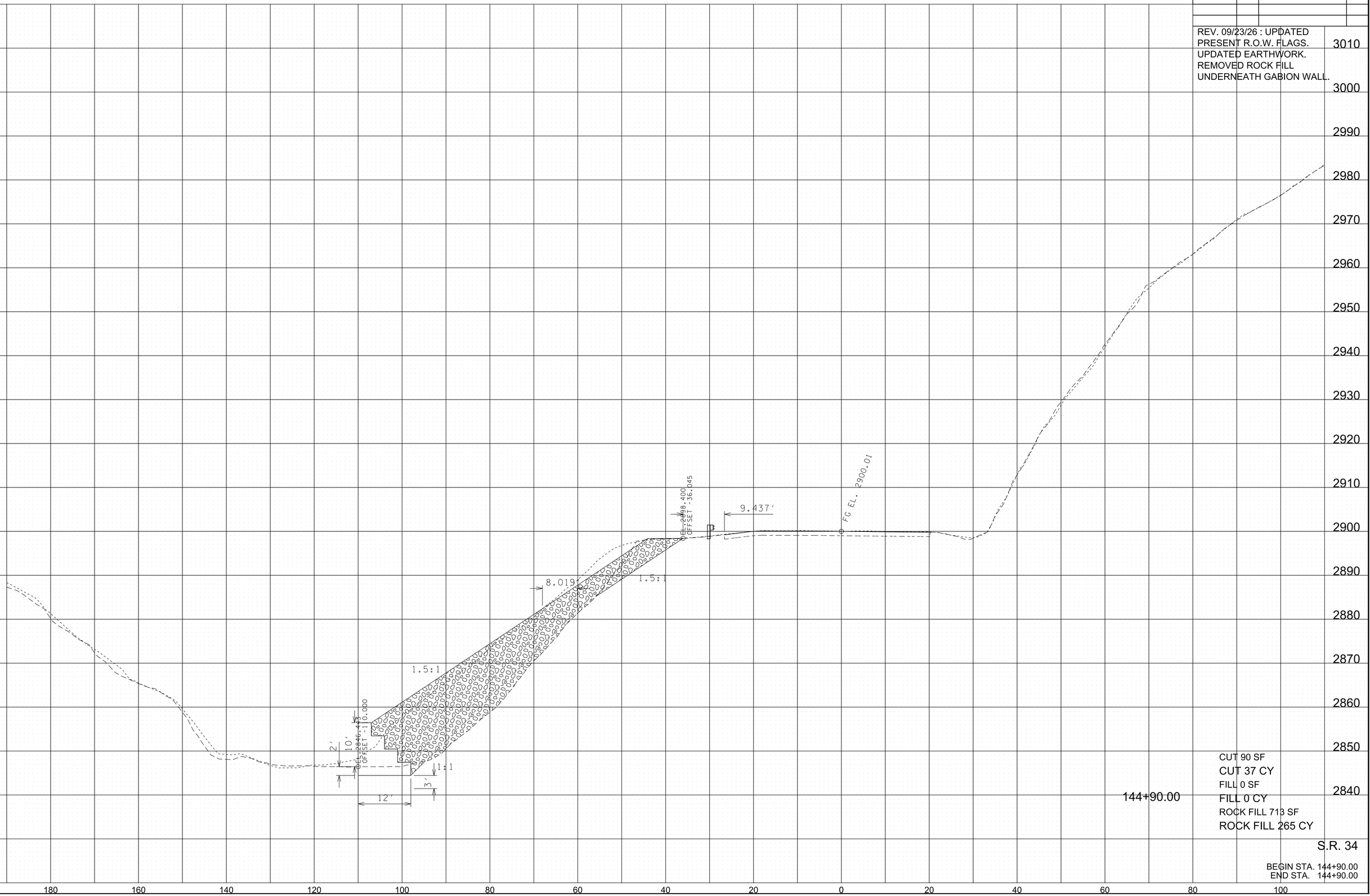
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	78

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



144+90.00

CUT 90 SF
CUT 37 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 713 SF
ROCK FILL 265 CY

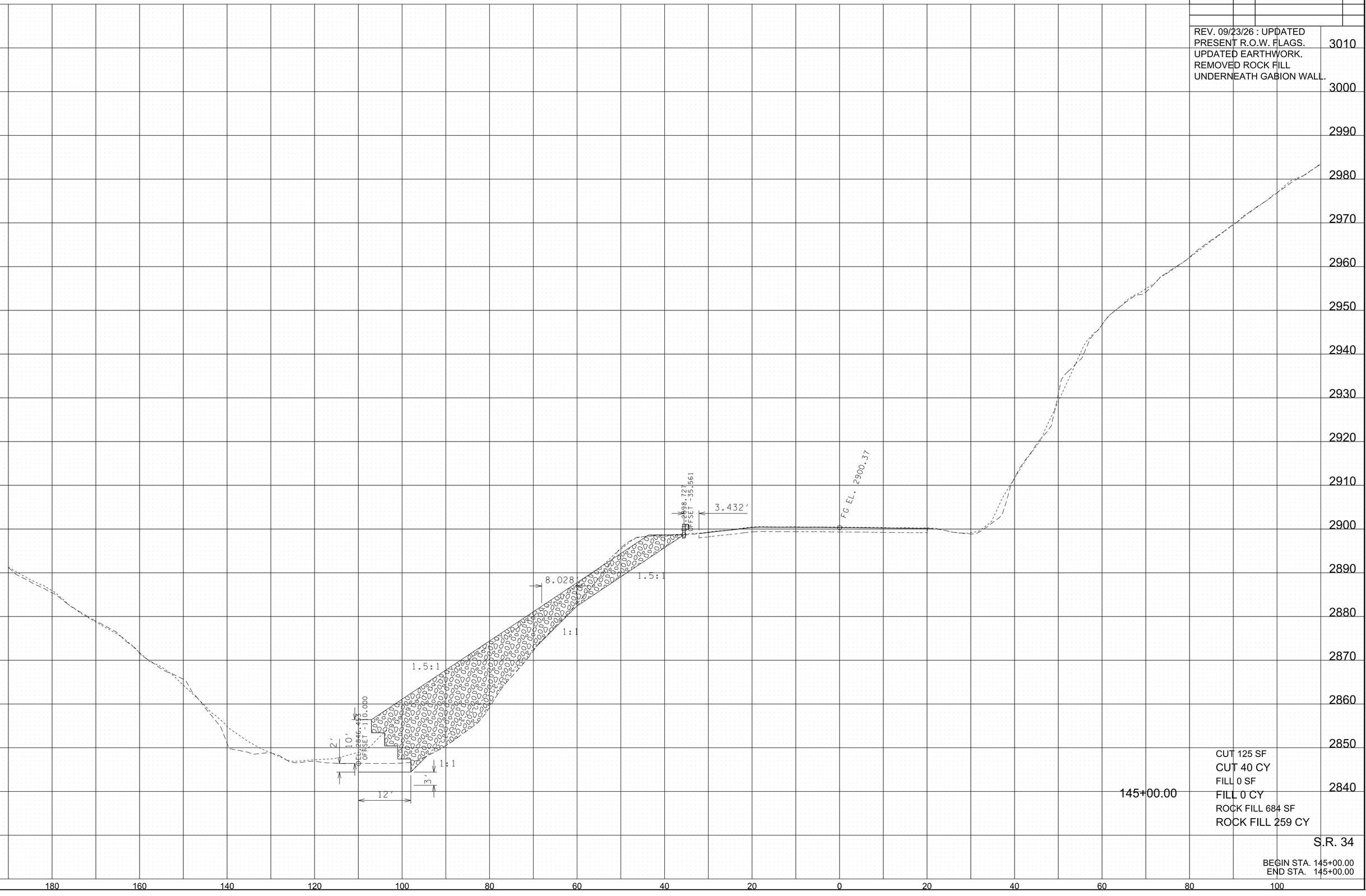
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	79

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.
REMOVED ROCK FILL
UNDERNEATH GABION WALL.



CUT 125 SF
CUT 40 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 684 SF
ROCK FILL 259 CY

145+00.00

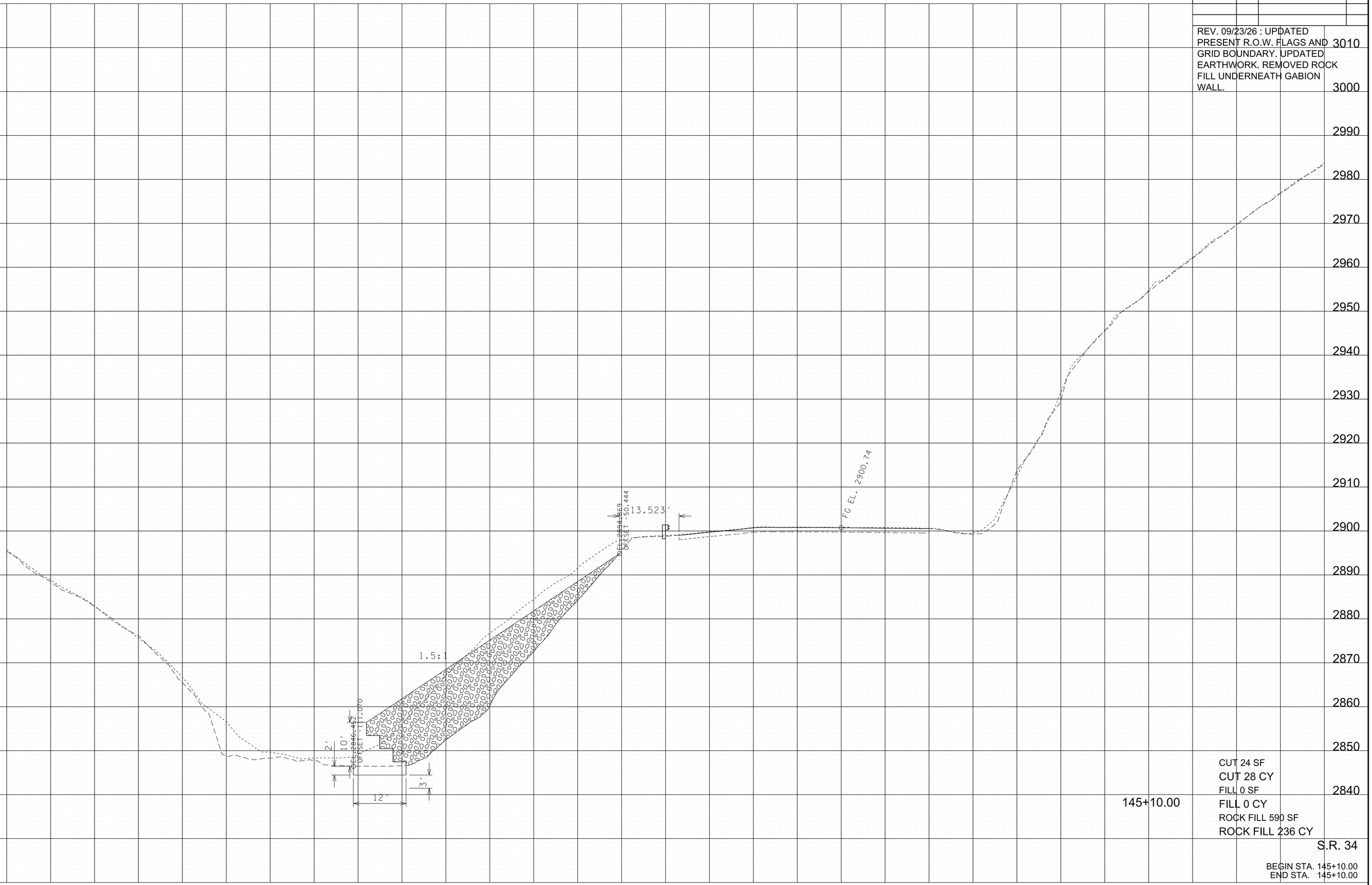
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BEGIN STA. 145+00.00
END STA. 145+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	80

REV. 09/23/26 : UPDATED PRESENT R.O.W. FLAGS AND GRID BOUNDARY. UPDATED EARTHWORK. REMOVED ROCK FILL UNDERNEATH GABION WALL.



145+10.00

CUT 24 SF
CUT 28 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 590 SF
ROCK FILL 236 CY

S.R. 34

BEGIN STA. 145+10.00
END STA. 145+10.00

9/24/2026 9:09:59 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	81

REV. 09/23/26 : UPDATED PRESENT R.O.W. FLAGS AND GRID BOUNDARY. UPDATED EARTHWORK. REMOVED ROCK FILL UNDERNEATH GABION WALL.

3010
3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840

22.428'
FG EL. 2901.11
EL: 2882.267
OFFSET: 63.897
1.5:1
EL: 2844.531
OFFSET: 110.00
2'
1'
3'
9'

END GABION BASKET
STA. 145+20.00

145+20.00

CUT 18 SF
CUT 8 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 309 SF
ROCK FILL 166 CY

S.R. 34

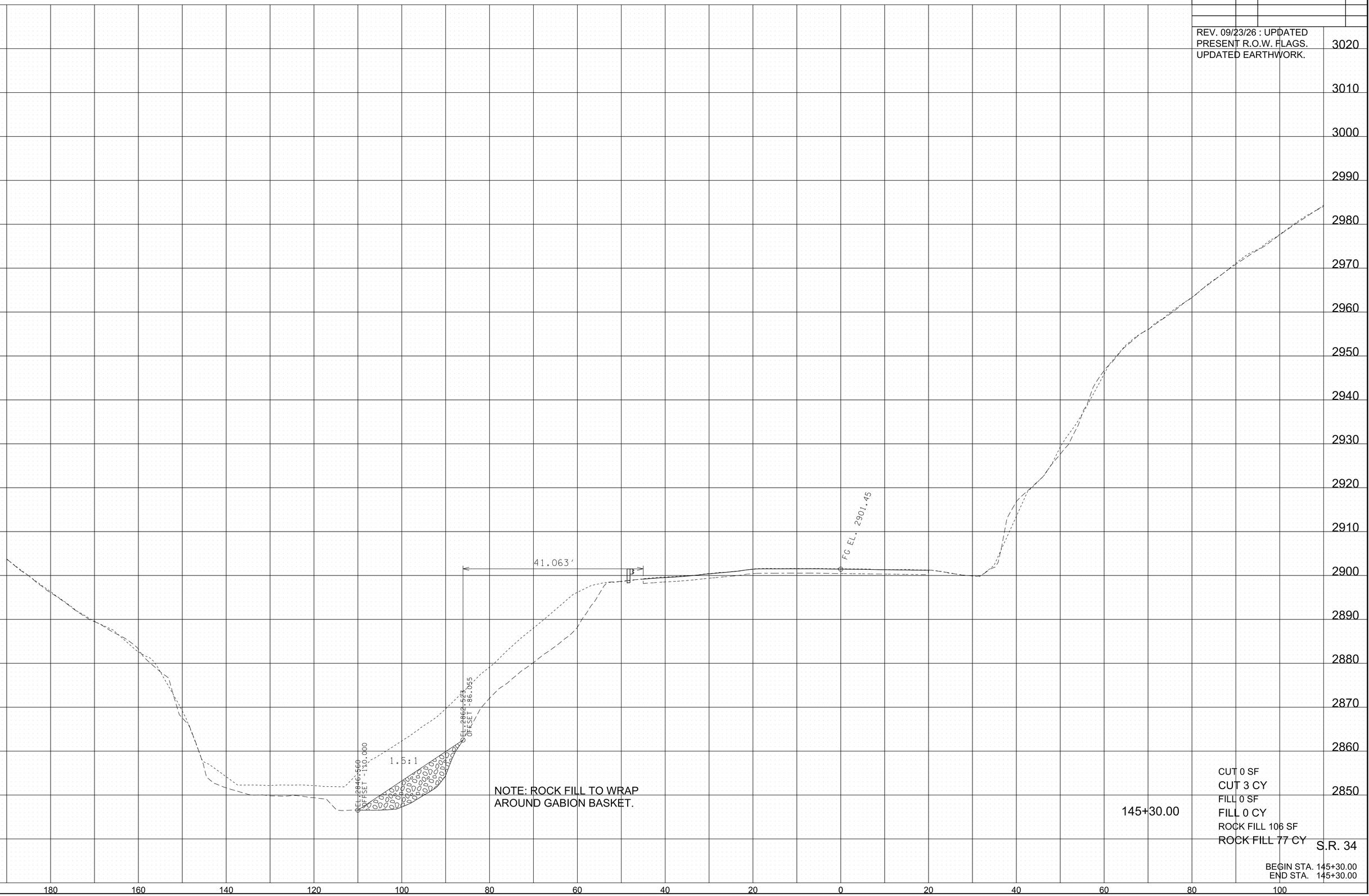
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	82

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



145+30.00

CUT 0 SF
CUT 3 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 106 SF
ROCK FILL 77 CY

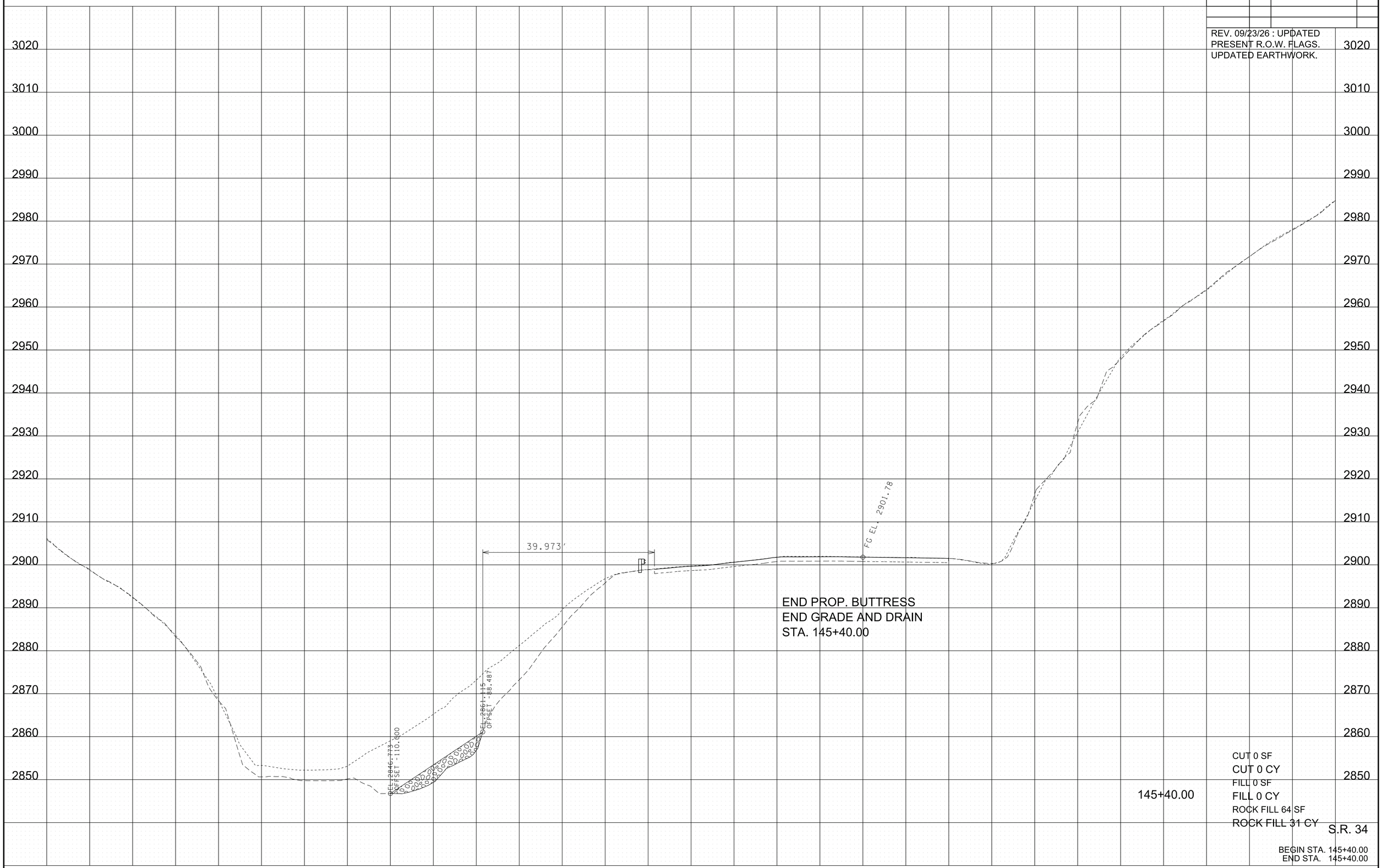
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	83

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



145+40.00

CUT 0 SF
CUT 0 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 64 SF
ROCK FILL 31 CY

S.R. 34

BEGIN STA. 145+40.00
END STA. 145+40.00

9/24/2026 10:00:26 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	84

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.

3020
3010
3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850

FG EL. 2902.12

145+50.00

CUT 0 SF
CUT 0 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 0 SF
ROCK FILL 12 CY

S.R. 34

BEGIN STA. 145+50.00
END STA. 145+50.00

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

9/24/2026 10:00:28 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	85

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.

3020
3010
3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860

FG EL. 2902.43

145+60.00

CUT 0 SF
CUT 0 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 0 SF
ROCK FILL 0 CY

S.R. 34

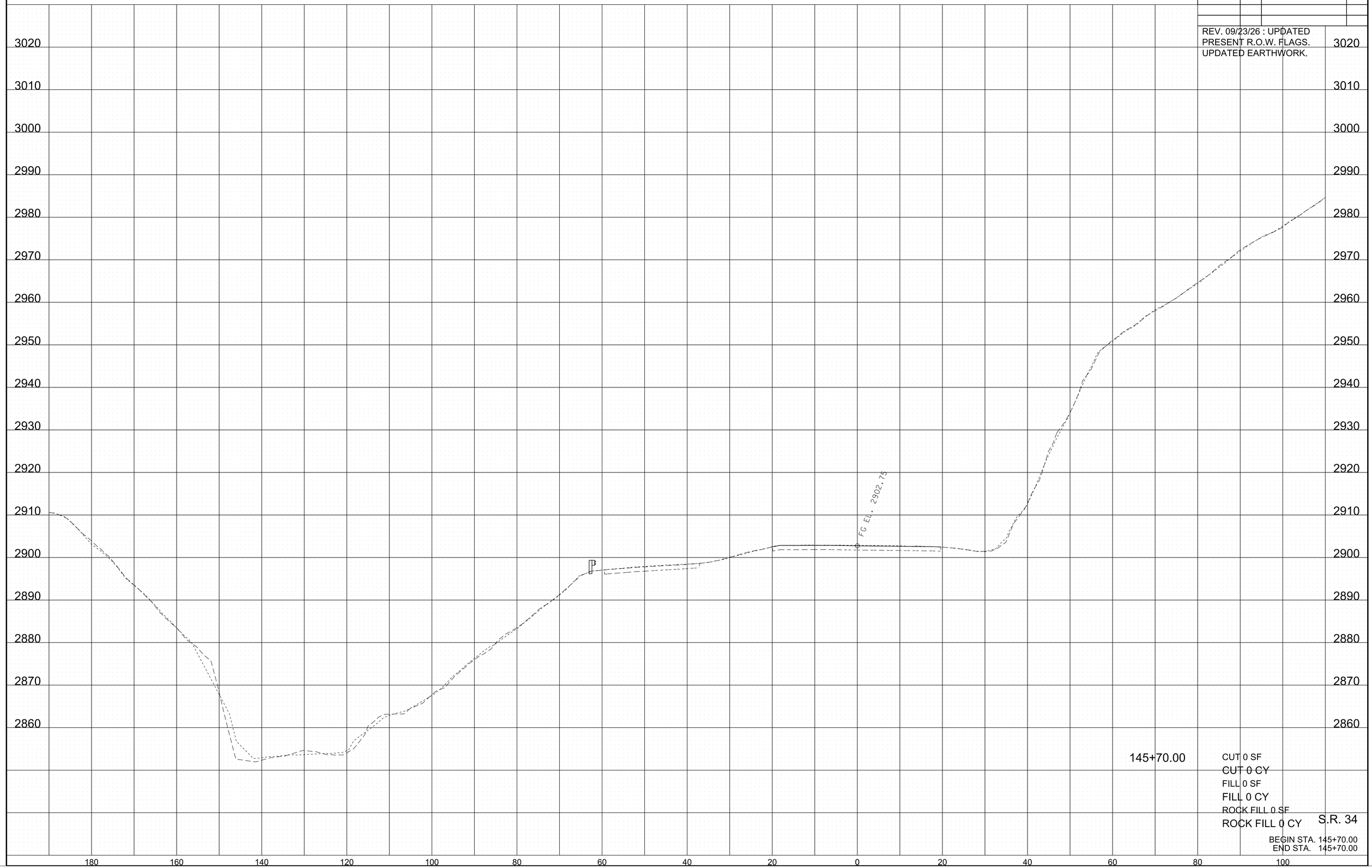
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END STA. 145+60.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	86

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



145+70.00

CUT 0 SF
CUT 0 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 0 SF
ROCK FILL 0 CY

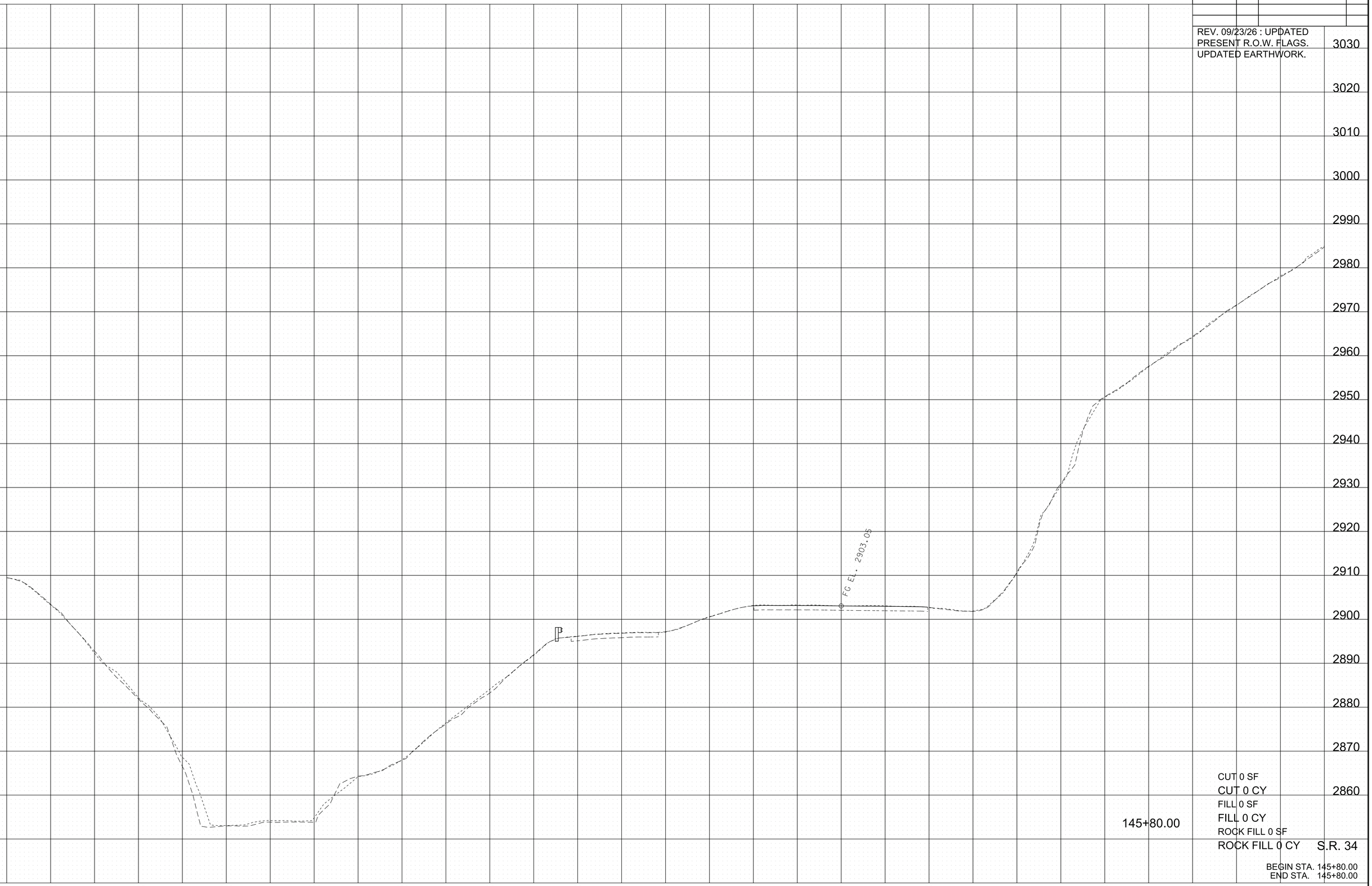
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END STA. 145+70.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	87

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



145+80.00

CUT 0 SF
CUT 0 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 0 SF
ROCK FILL 0 CY

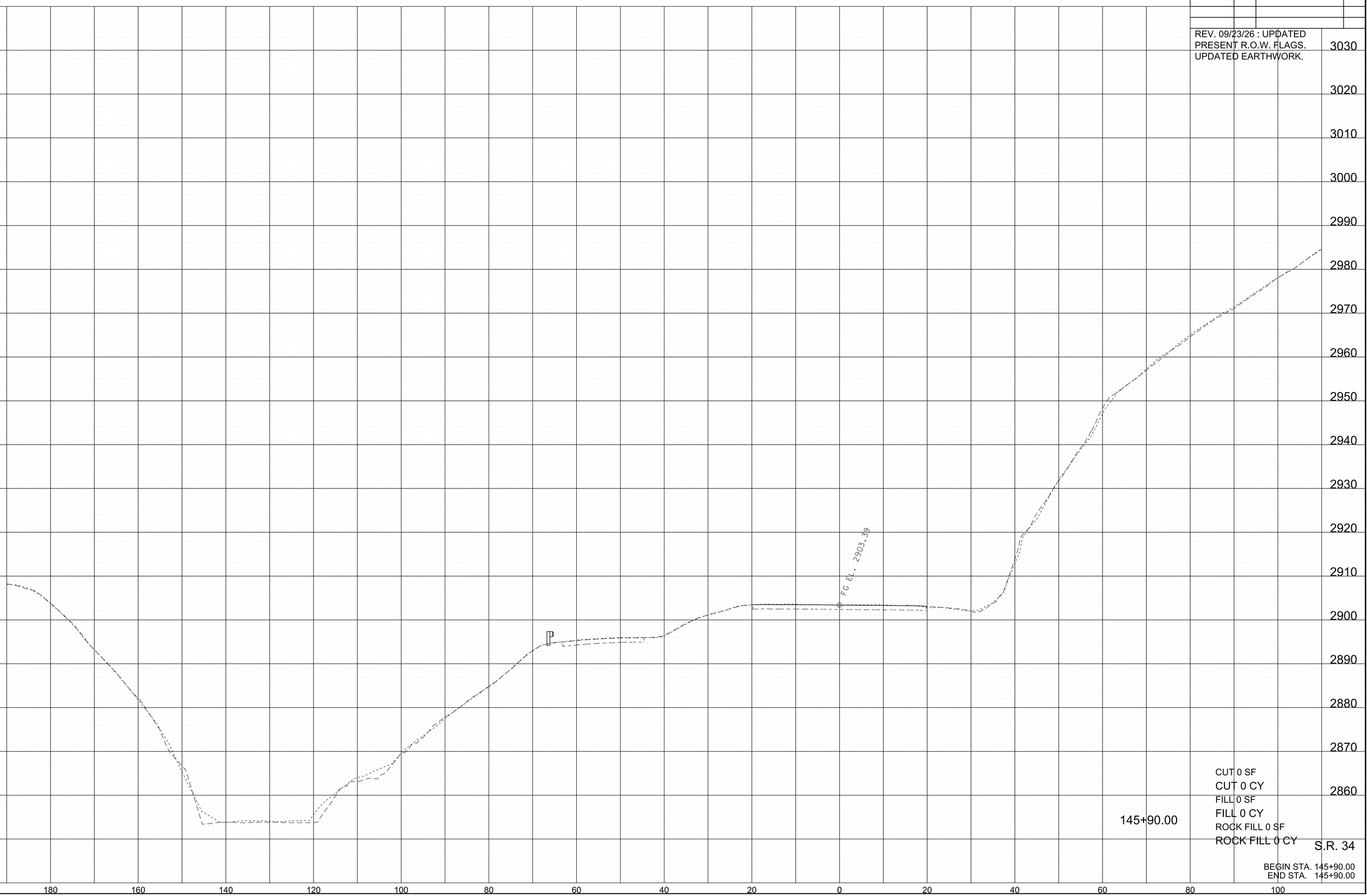
S.R. 34

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END STA. 145+80.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	88

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.



145+90.00

CUT 0 SF
CUT 0 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 0 SF
ROCK FILL 0 CY

S.R. 34

BEGIN STA. 145+90.00
END STA. 145+90.00

9/24/2026 10:00:36 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	89

REV. 09/23/26 : UPDATED
PRESENT R.O.W. FLAGS.
UPDATED EARTHWORK.

END CONSTRUCTION
STA. 146+00.00

FG EL. 2903.70

146+00.00

CUT 0 SF
CUT 0 CY
FILL 0 SF
FILL 0 CY
ROCK FILL 0 SF
ROCK FILL 0 CY

S.R. 34

BEGIN STA. 146+00.00
END STA. 146+00.00

3020 3010 3000 2990 2980 2970 2960 2950 2940 2930 2920 2910 2900 2890 2880 2870 2860

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100

9/24/2026 10:00:37 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STO-34(146)	R1

ACCEPTABLE WALL TYPES

GABION WALL

THE RETAINING WALL(S) SHALL BE ONE OF THE WALL TYPE(S) AS LISTED ABOVE OR ON FORTHCOMING "RETAINING WALL DETAIL-GEOMETRIC LAYOUT" SHEET(S). ANY PROPRIETARY RETAINING WALL SYSTEM SHALL BE LISTED AS PRE-APPROVED IN QPL 38.

RETAINING WALL DESIGN NOTES

UNLESS SPECIFICALLY STATED OTHERWISE IN THE CONTRACT PLANS, THE BIDDING FOR, THE DESIGN OF AND THE CONSTRUCTION OF RETAINING WALLS SHOWN IN THE PLANS SHALL BE GOVERNED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. THIS SPECIAL PROVISION SHALL BE CONSIDERED AS ONE OF THOSE DOCUMENTS WHICH THE BIDDER/CONTRACTOR HAS EXAMINED AND MADE HIMSELF FAMILIAR WITH AS DESCRIBED IN SECTION 102.04 - EXAMINATION OF THE SITE, THE WORK, THE PLANS, AND THE SPECIFICATIONS IN THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

EXCAVATION FOR THE WALL AND/OR ITS FOOTING SHALL NOT BE ACCOMPLISHED UNTIL THE CONTRACTOR HAS SUBMITTED WALL DESIGNS AND CALCULATIONS AND HAS BEEN ISSUED AN APPROVED SET OF WALL PLANS AND HAS LABOR AND MATERIAL RESOURCES AVAILABLE TO BEGIN AND CONTINUE WALL CONSTRUCTION IMMEDIATELY AFTER EXCAVATION.

THIS WALL SHALL BE DESIGNED IN ACCORDANCE WITH LRFD DESIGN PROCEDURES AND REQUIREMENTS AS DESCRIBED IN:

- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2024

FOR PROPRIETARY WALL SYSTEMS THAT HAVE BEEN APPROVED AS SHOWN IN QPL 38, THE WALL DESIGNER SHALL BE RESPONSIBLE FOR PROVIDING WALL DESIGNS INCORPORATING MATERIALS AND COMPONENTS (I.E. REINFORCEMENT CONNECTION DEVICES, SPECIFIC MANUFACTURER AND PROPERTIES OF GEOGRID) AS WAS ORIGINALLY SUBMITTED AND APPROVED BY TDOT, IF A MATERIAL AND/OR COMPONENT OF THE WALL SYSTEM HAVE BEEN MODIFIED FROM THE ORIGINALLY APPROVED SYSTEM, A WALL DESIGN AND SET OF PLANS AND CALCULATIONS FOR THIS WALL SYSTEM CANNOT BE SUBMITTED FOR REVIEW AND APPROVAL UNTIL THE WALL SYSTEM DESIGNER WHO ORIGINALLY SUBMITTED THE WALL SYSTEM FOR APPROVAL BY TDOT SUBMITS A REQUEST FOR RE-APPROVAL UTILIZING THE MODIFIED ELEMENTS OF THE WALL. THIS SUBMITTAL DOES NOT GUARANTEE APPROVAL OF THE MODIFIED SYSTEM. IF THIS RE-APPROVAL PROCESS DOES NOT MEET THE CONTRACTOR'S SCHEDULE OR IF THE MODIFIED SYSTEM IS NOT APPROVED, THE CONTRACTOR/WALL DESIGNER SHALL PROVIDE A WALL DESIGN FOR ONE OF THE APPROVED SYSTEMS AT NO CHANGE IN CONTRACT PRICE FOR THE RETAINING WALL AND NO CHANGE IN PROJECT SCHEDULE REQUIREMENTS WILL BE ALLOWED.

THE WALL DESIGNER SHALL PROVIDE RETAINING WALL PLANS, DETAILS AND CALCULATIONS AS REQUIRED BY SPECIAL PROVISION 624 AND AS REQUIRED HEREIN.

- THE WALL DESIGNER SHALL UTILIZE THE GEOTECHNICAL PARAMETERS AND RESISTANCE FACTORS AS PROVIDED FOR EACH PROJECT RETAINING WALL ON THE "RETAINING WALL DETAIL" SHEET(S) TO PREPARE AND SUBMIT DESIGN CALCULATIONS. LOAD FACTORS AND OTHER PERTINENT DESIGN REQUIREMENTS PROVIDED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2024 AND INTERIMS SHALL BE USED FOR NON-MSE WALLS
- CALCULATIONS FOR BOTH INTERNAL AND EXTERNAL STABILITY (SLIDING, ECCENTRICITY, AND BEARING CAPACITY-GLOBAL STABILITY AND SETTLEMENT BEING THE EXCEPTIONS) SHALL BE PROVIDED FOR EACH CRITICAL WALL SECTION WHICH DEMONSTRATES THE REQUIRED CAPACITY TO DEMAND RATIO OF 1.0 IS MET UTILIZING THE DESIGN PARAMETERS PROVIDED. FOR MSE WALLS, THE WALL DESIGNER MUST ADJUST THE REINFORCEMENT LENGTHS BEYOND THOSE MINIMUM REQUIRED LENGTHS, IF REQUIRED, TO MEET BOTH INTERNAL AND EXTERNAL REQUIREMENTS. THE WALL DESIGNER/CONTRACTOR PLANS MUST INCLUDE ANY FOUNDATION IMPROVEMENTS AS REQUIRED HEREIN ON THE WALL DESIGNER/CONTRACTOR'S WALL ELEVATION VIEWS AND ANY CROSS-SECTIONAL DETAIL DRAWINGS.
- UNLESS OTHERWISE STATED, THE WALL DESIGNER CAN ASSUME THAT MINIMUM GLOBAL STABILITY AND SETTLEMENT CRITERIA IS ACHIEVED WITH A WALL DESIGN MEETING OTHER MINIMUM EXTERNAL STABILITY REQUIREMENTS AND ASSUMING WALL FOUNDATION BEARING IMPROVEMENTS ARE MET. WHILE THE WALL DESIGNER'S DESIGN MUST DEMONSTRATE COMPLIANCE WITH EXTERNAL STABILITY REQUIREMENTS AS DISCUSSED ABOVE, THE WALL DESIGNER PROVIDES CERTIFICATION (BY SIGNING AND STAMPING BY PROFESSIONAL ENGINEER REGISTERED IN STATE OF TENNESSEE) OF THE WALLS, PLANS, AND CALCULATIONS "FOR INTERNAL STABILITY ONLY".
- LOAD COMBINATIONS STRENGTH I, EXTREME EVENT I, AND EXTREME EVENT II SHALL BE EVALUATED AS GIVEN IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2024 AND INTERIMS.

NOTE REGARDING CONSTRUCTION SLOPES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE EXCAVATION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. IN ADDITION TO FOLLOWING APPLICABLE REGULATORY REQUIREMENTS, AS A MINIMUM REQUIREMENT, ALL TEMPORARY CONSTRUCTION SLOPES SHALL BE PLACED AT A MAXIMUM OF A 1:1 SLOPE IN SOIL AND SHALL NOT BE LEFT OPEN WITHOUT SHORING FOR ANY LONGER THAN ABSOLUTELY NECESSARY. THE CONTRACTOR BUILDING THE WALL SHALL ENSURE THAT THESE TEMPORARY BACK SLOPES ARE NOT AND DO NOT BECOME UNSTABLE. IF SLOPE IS UNSTABLE, BECOMES UNSTABLE, IS CUT STEEPER THAN A 1:1 SLOPE OR IS UNACCEPTABLE FOR ANOTHER REASON, THEN TEMPORARY SHORING SHALL BE USED. ANY UNUSUAL SOIL CONDITIONS OTHER THAN THOSE ASSUMED SHOULD BE REPORTED TO THE PROJECT ENGINEER.

GES No. 4603625

VERSION 09/22/2026

TABLE 1-DESIGN REQUIREMENTS AND PARAMETERS

DESCRIPTION	GABION WALL	NOTE
DESIGN LIFE	75 YEARS	
SEISMIC ACCELERATION COEFFICIENTS		
As	0.115	
S_{DS}	0.234	
S_{D1}	0.099	
EFFECTIVE (DRAINED) FRICTION ANGLE		
RETAINED BACKFILL-UNCLASSIFIED SITE OR BORROW SOIL	30 °	
RETAINED BACKFILL-SELECT BACKFILL	34 ° TO MAX 40 °	1
REINFORCED BACKFILL	34 ° TO MAX 40 °	1
UNIT WEIGHT		
UNCLASSIFIED SITE OR BORROW SOIL	120 POUNDS PER CUBIC FOOT	
SELECT BACKFILL MATERIAL	VARIES	1A
DESIGN BASIS		
COEFFICIENT OF SLIDING FRICTION	SEE TABLE 2	2
NOMINAL BEARING RESISTANCE	SEE TABLE 2	2
LIMITING ECCENTRICITY	B/3 (SOIL), 9B/20 (ROCK)	

NOTES FOR TABLE 1

NO.	NOTE
1	A MAXIMUM FRICTION ANGLE OF 34 DEGREES CAN BE ASSUMED FOR MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1. MATERIALS OF TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. A HIGHER FRICTION ANGLE THAN 34 DEGREES CAN BE UTILIZED IF THE CONTRACTOR SUBMITS INDEPENDENT TESTING AND IT IS VERIFIED BY TDOT. HOWEVER, IN NO CASE SHALL THE FRICTION ANGLE FOR ANALYSIS EXCEED 40-DEGREES. INDEPENDENT TESTING MUST BE VERIFIED ANNUALLY.
1A	SELECT BACKFILL UNIT WEIGHT TO BE DETERMINED BY CONTRACTOR/DESIGNER DEPENDING ON ACTUAL BACKFILL MATERIAL USED. SELECT BACKFILL IS DEFINED AS MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1. MATERIALS OF TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. IN ORDER TO UTILIZE ϕ FOR SELECT BACKFILL DESIGN, SELECT BACKFILL MUST BE PLACED FOR A MINIMUM ZONE FORMED BY A 1:1 SLOPE FROM 2 FEET BEHIND THE BOTTOM OF BACK OF WALL FOOTING OR REINFORCED SOIL ZONE FOR MSE WALLS UP TO FINISHED GRADE.
2	THESE VALUES WILL BE PROVIDED IN TABLES 2 AND/OR 3

TABLE 2 -FOUNDATION PARAMETERS AND REQUIREMENTS FOR GRAVITY OR SEMI-GRAVITY WALLS

STATION LIMITS	FOUNDATION BEARING CONDITION REQUIREMENT	NOMINAL BEARING RESISTANCE (psf)	COEFFICIENT OF SLIDING FRICTION
139+70 TO 145+20	BEDROCK	20,000	0.5

OTHER DESIGN REQUIREMENTS

THE WALL BASE SHALL BE EMBEDDED A MINIMUM OF 2 FEET BELOW GROUND SURFACE AT THE FRONT FACE OF THE WALL. THE EMBEDMENT MATERIAL SHALL CONSIST OF BEDROCK.

THE WIDTH OF THE WALL BASE SHALL BE EQUAL TO THE WALL HEIGHT. THE WALL SHALL NOT EXCEED 15 FEET IN HEIGHT.

CLEAN GRADED SOLID ROCK SHALL BE PLACED AS BACKFILL BEHIND THE GABION WALL.

THE BACK SLOPE OF THE ROCK BUTTRESS SHALL BE CONSTRUCTED NO STEEPER THAN A MAXIMUM OF 1H:1V. THE FRONT SLOPE OF THE ROCK BUTTRESS SHALL BE CONSTRUCTED NO STEEPER THAN A MAXIMUM OF 1.5H:1V.TYPE IV NON-WOVEN GEOTEXTILE SHALL BE PLACED OVER EXPOSED BACK SLOPE PRIOR TO PLACEMENT OF BACKFILL BEHIND THE GABION WALL.

A BENCH WITH A MINIMUM WIDTH OF 8 FEET SHALL BE CONSTRUCTED AT THE TOP OF THE BUTTRESS. THE SLOPE ABOVE THE ROCK BUTTRESS SHALL BE CONSTRUCTED AT A MINIMUM OF 2H:1V UNTIL THE CREST OF THE SLOPE IS ENCOUNTERED.

REFER TO SHEET R-1C AND R-1D FOR A TYPICAL SECTION OF THE GABION WALL AND ROCK BUTTRESS.

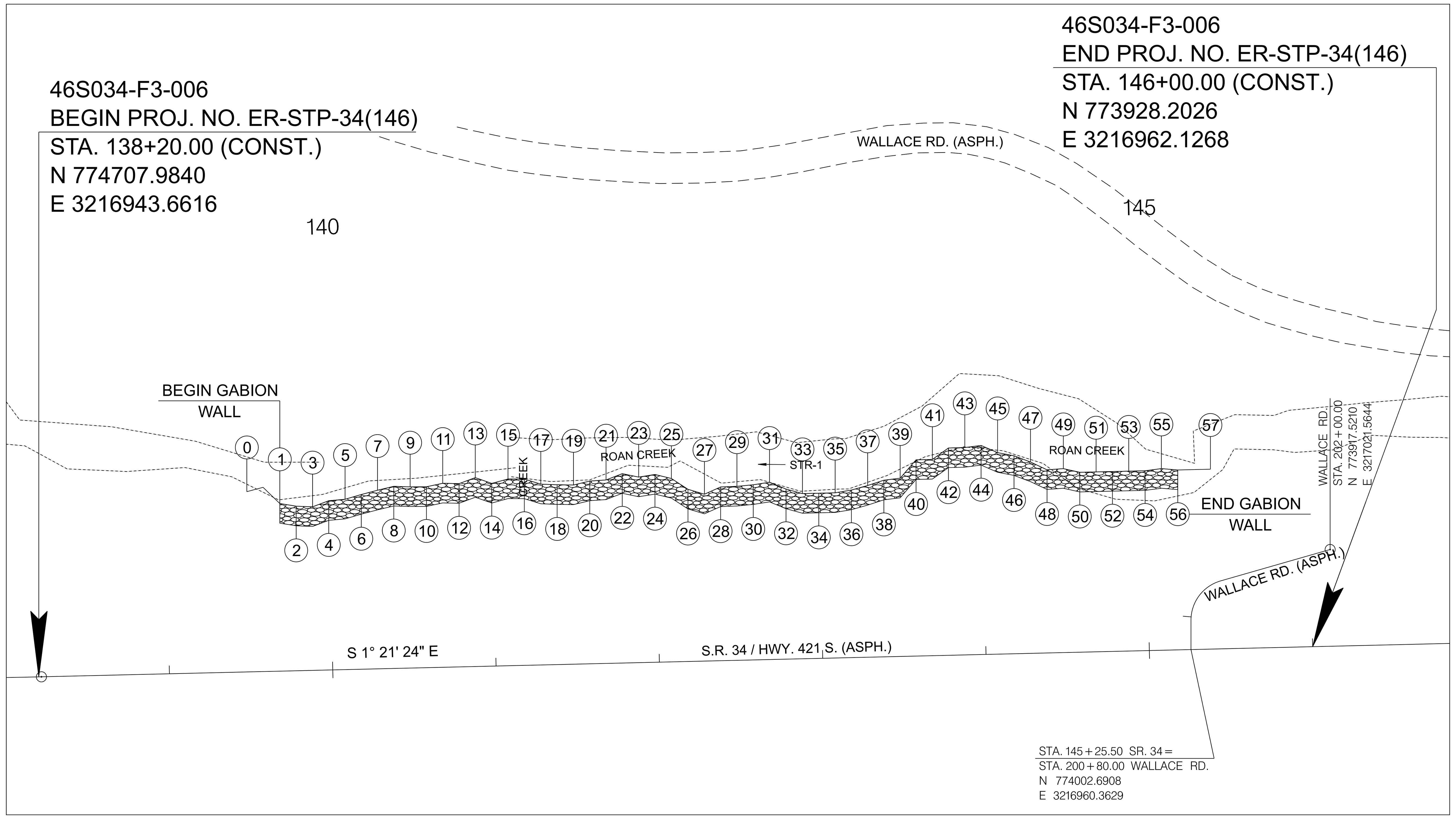
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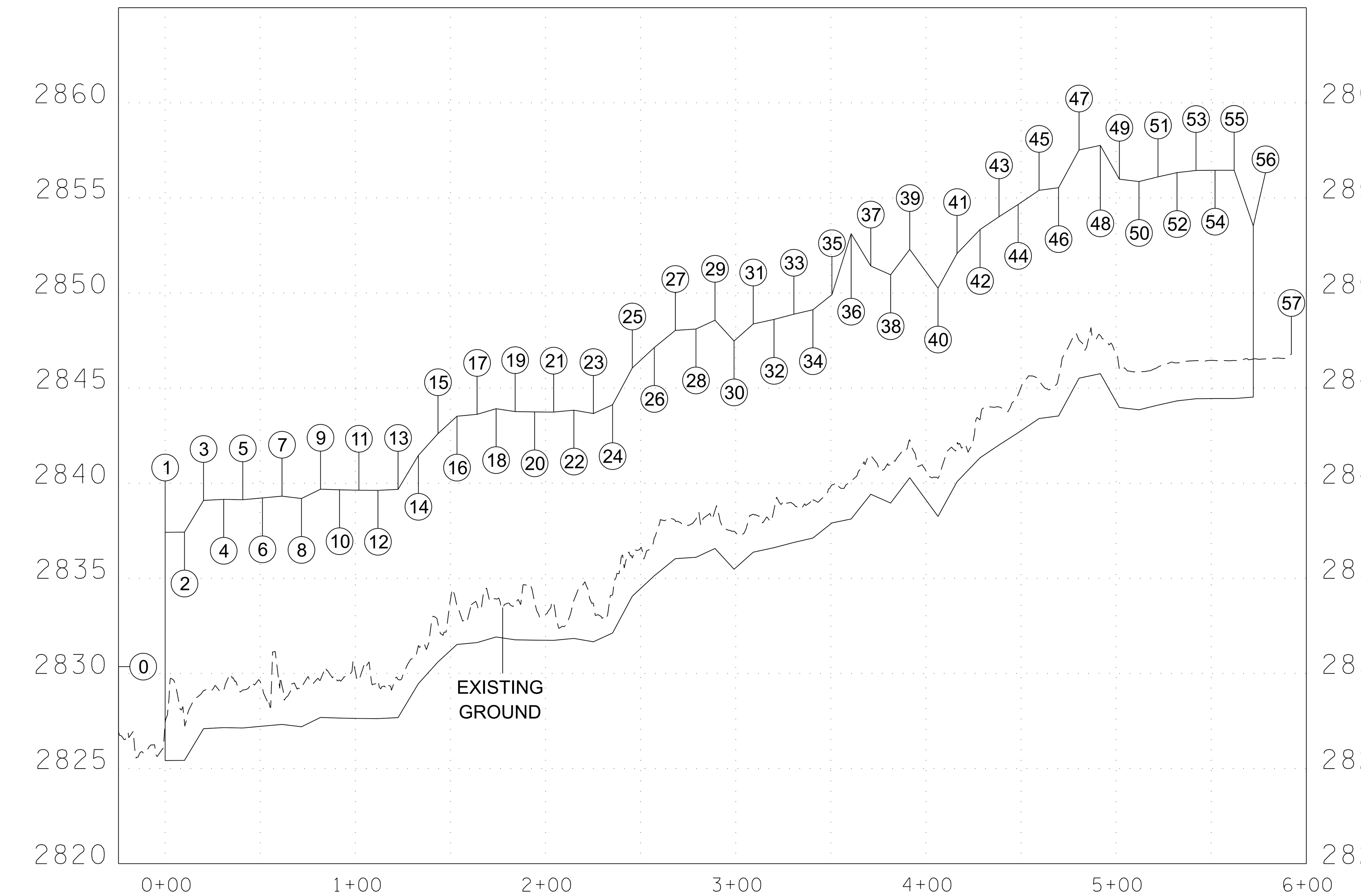
RETAINING WALL GEOTECHNICAL DESIGN NOTES & REQUIREMENTS

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	R1A



GABION WALL PLAN VIEW SCALE: 1"=50'



GABION WALL PROFILE VIEW SCALE: H: 1"=50' V: 1"=5'

NOTE: SEE SHEET R-1B FOR SURVEY DATA ON WALL POINTS

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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00012 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL PLAN & PROFILE VIEW

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	R1B

POINT	CHAIN: GABION WALL STATION		CHAIN: S.R. 34 STATION	OFFSET	NORTHING	EASTING	GROUND EL.	BOTTOM WALL EL.	TOP WALL EL.
1	0+00.00	=	139+70.00	-102.50	774560.4526	3217049.6835	2827.42	2825.42	2837.42
2	0+10.17	=	139+80.00	-100.64	774550.4114	3217048.0608	2827.43	2825.43	2837.43
3	0+20.19	=	139+90.00	-100.00	774540.3990	3217047.6577	2829.10	2827.10	2839.10
4	0+30.79	=	140+00.00	-103.50	774530.4847	3217051.3934	2829.15	2827.15	2839.15
5	0+40.81	=	140+10.00	-104.15	774520.5029	3217052.2800	2829.13	2827.13	2839.13
6	0+51.16	=	140+20.00	-106.82	774513.2637	3217055.1860	2829.23	2827.23	2839.23
7	0+61.44	=	140+30.00	-109.21	774500.6283	3217057.8120	2829.32	2827.32	2839.32
8	0+71.67	=	140+40.00	-111.36	774490.6820	3217060.1982	2829.20	2827.20	2839.20
9	0+81.69	=	140+50.00	-110.78	774480.6710	3217059.8551	2829.68	2827.68	2839.68
10	0+91.69	=	140+60.00	-110.61	774470.6698	3217059.9219	2829.66	2827.66	2839.66
11	1+01.87	=	140+70.00	-112.51	774457.8178	3217069.6234	2829.64	2827.64	2839.64
12	1+11.88	=	140+80.00	-112.05	774450.7095	3217061.8349	2829.63	2827.63	2839.63
13	1+22.45	=	140+90.00	-115.50	774440.7940	3217065.5207	2829.68	2827.68	2839.68
14	1+33.15	=	141+00.00	-111.72	774430.7073	3217061.9785	2831.46	2829.46	2841.46
15	1+43.45	=	141+10.00	-114.20	774420.7688	3217064.6946	2832.61	2830.61	2842.61
16	1+53.45	=	141+20.00	-113.91	774410.7648	3217064.6414	2833.52	2831.52	2843.52
17	1+64.00	=	141+30.00	-110.57	774400.6885	3217061.5391	2833.62	2831.62	2843.62
18	1+74.01	=	141+40.00	-109.96	774390.6768	3217061.1660	2833.92	2831.92	2843.92
19	1+84.02	=	141+50.00	-109.57	774380.6704	3217061.0128	2833.77	2831.77	2843.77
20	1+94.25	=	141+60.00	-111.73	774371.0031	3217063.4090	2833.75	2831.75	2843.75
21	2+04.26	=	141+70.00	-112.19	774360.7380	3217064.1056	2833.75	2831.75	2843.75
22	2+14.89	=	141+80.00	-115.79	774350.8261	3217067.9413	2833.84	2831.84	2843.84
23	2+25.16	=	141+90.00	-113.46	774340.7737	3217065.8487	2833.67	2831.67	2843.67
24	2+35.25	=	142+00.00	-114.82	774330.8087	3217067.4450	2834.12	2832.12	2844.12
25	2+45.61	=	142+10.00	-112.13	774320.7478	3217064.9925	2836.06	2834.06	2846.06
26	2+57.73	=	142+20.00	-105.27	774310.5882	3217058.3712	2837.23	2835.23	2847.23
27	2+68.24	=	142+30.00	-102.04	774300.5146	3217055.3788	2838.04	2836.04	2848.04
28	2+79.08	=	142+40.00	-106.23	774290.6166	3217059.8044	2838.11	2836.11	2848.11
29	2+89.09	=	142+50.00	-106.37	774280.6227	3217060.1811	2838.57	2836.57	2848.57
30	2+99.11	=	142+60.00	-107.10	774270.6428	3217061.1476	2837.48	2835.48	2847.48
31	3+09.20	=	142+70.00	-108.40	774260.6763	3217062.6840	2838.37	2836.37	2848.37
32	3+20.12	=	142+80.00	-104.00	774250.5750	3217058.5220	2838.61	2836.61	2848.61
33	3+30.56	=	142+90.00	-101.00	774240.5068	3217055.7596	2838.89	2836.89	2848.89
34	3+40.56	=	143+00.00	-101.00	774230.5096	3217055.9963	2839.12	2837.12	2849.12
35	3+50.56	=	143+10.00	-101.00	774220.5124	3217056.2331	2839.91	2837.91	2849.91
36	3+60.67	=	143+20.00	-102.45	774210.5495	3217057.9194	2840.12	2838.12	2853.12
37	3+70.99	=	143+30.00	-105.00	774200.6127	3217060.7054	2841.42	2839.42	2851.42
38	3+81.43	=	143+40.00	-108.00	774190.6865	3217063.9413	2840.96	2838.96	2850.96
39	3+91.48	=	143+50.00	-109.00	774180.7130	3217065.1778	2842.29	2840.29	2852.29
40	4+06.34	=	143+60.00	-120.00	774170.9762	3217076.4114	2840.26	2838.26	2850.26
41	4+16.34	=	143+70.00	-120.00	774160.9790	3217076.6482	2842.08	2840.08	2852.08
42	4+28.42	=	143+80.00	-126.77	774151.1421	3217083.6530	2843.33	2841.33	2853.33
43	4+38.42	=	143+90.00	-126.80	774141.1456	3217083.9197	2844.01	2842.01	2854.01
44	4+48.47	=	144+00.00	-127.83	774131.1728	3217085.1862	2844.66	2842.66	2854.66
45	4+59.48	=	144+10.00	-123.22	774121.0664	3217080.8142	2845.40	2843.40	2855.40
46	4+69.72	=	144+20.00	-121.04	774111.0176	3217078.8716	2845.53	2843.53	2855.53
47	4+80.50	=	144+30.00	-117.00	774100.9248	3217075.0694	2847.52	2845.52	2857.52
48	4+91.68	=	144+40.00	-112.00	774090.8092	3217070.3076	2847.76	2845.76	2857.76
49	5+01.69	=	144+50.00	-112.48	774080.8234	3217071.0242	2845.99	2843.99	2855.99
50	5+12.00	=	144+60.00	-110.00	774070.7675	3217068.7816	2845.86	2843.86	2855.86
51	5+22.00	=	144+70.00	-110.00	774060.7703	3217069.0184	2846.11	2844.11	2856.11
52	5+32.00	=	144+80.00	-110.00	774050.7731	3217069.2551	2846.33	2844.33	2856.33
53	5+42.00	=	144+90.00	-110.00	774040.7759	3217069.4918	2846.44	2844.44	2856.44
54	5+52.00	=	145+00.00	-110.00	774030.7787	3217069.7286	2846.45	2844.45	2856.45
55	5+62.05	=	145+10.00	-111.07	774020.8068	3217071.0350	2846.45	2844.45	2856.45
56	5+72.11	=	145+20.00	-110.00	774010.7843	3217070.2021	2846.53	2844.53	2853.53

NOTE: SEE SHEET R-1A FOR CORRESPONDING WALL POINTS

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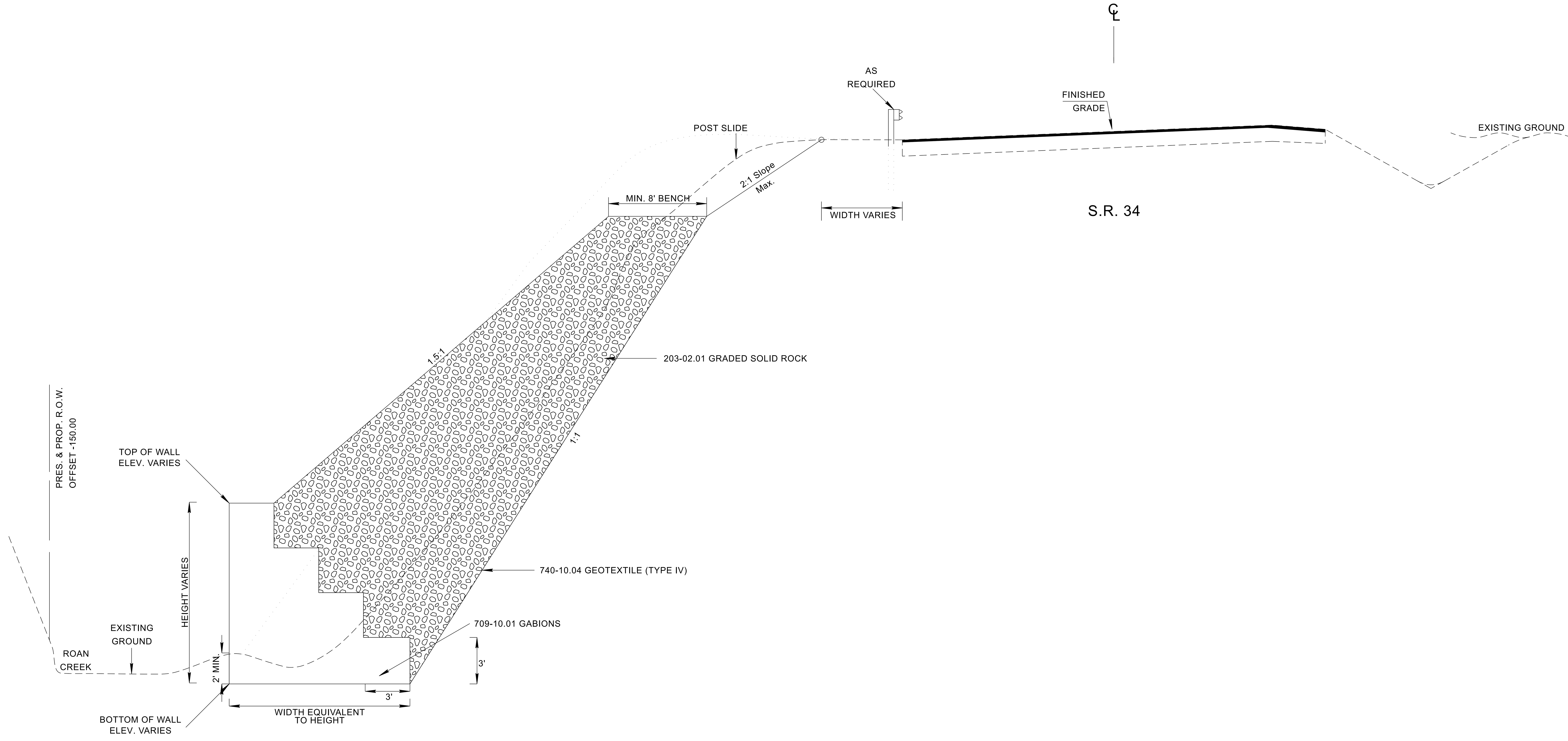
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL SURVEY DATA

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	R1C



GABION WALL WITH TYPICAL ROCK BUTTRESS
TYPICAL CROSS SECTION
N.T.S.
STATION RANGES:
139+70 TO 142+80, 143+50 TO 144+20, 145+10 TO 145+20

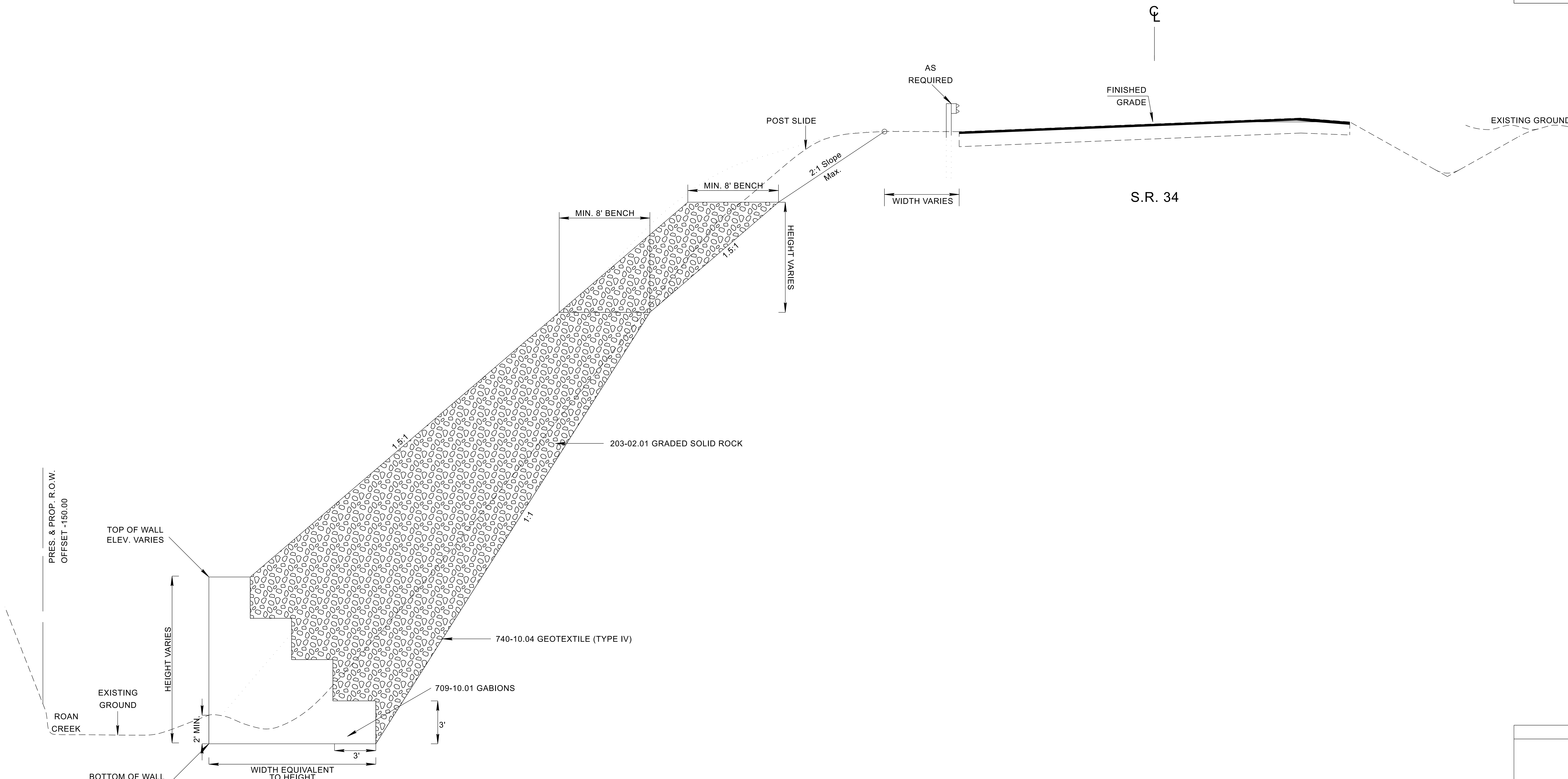
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RETAINING
WALL
TYPICAL
SECTION

$$$$SYTIME$$$$$$$
$$$$DGNSPEC$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	ER-STP-34(146)	R1D



GABION WALL WITH EXTENDED ROCK BUTTRESS
TYPICAL CROSS SECTION
N.T.S.
STATION RANGES:
142+80 TO 143+50, 144+20 TO 145+10

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RETAINING
WALL
TYPICAL
SECTION

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$