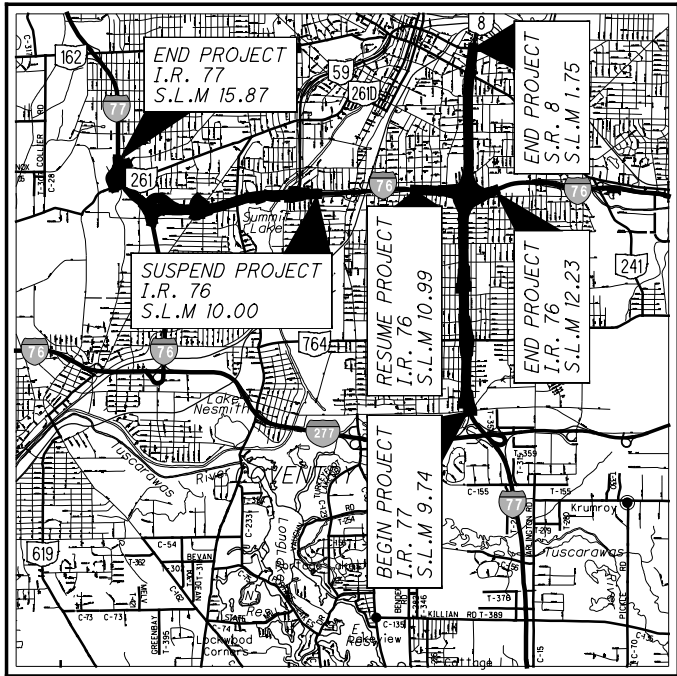


pw:\VANVAQIP\WINTO\parsons.com\Ohio State\Documents\B-Akron Beltway Rehab\10 - Design\102329\Roadway\Sheets\BU-33D\102329_GT001_BU_33D.dgn Sheet 3/28/2022 12:20:01 PM ekisiel



LOCATION MAP

LATITUDE: 41° 03' 43" LONGITUDE: 81° 30' 17"



PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

SEE BU-19

DESIGN EXCEPTIONS

#	ROUTE	DESIGN FEATURE	APPROVAL DATES	SHEET NUMBERS
2	RAMP N	HORIZONTAL STOPPING SIGHT DISTANCE	10/21/2019	5
9	IR 76	SHOULDER WIDTH	06/28/2019	BU-33B
11	IR 76 EB	SUPERELEVATION RATE	11/06/2019	9

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig


OHIO811.org
Before You Dig

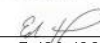
OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:



ENGINEERS SEAL:



SIGNED: 
DATE: 3/28/22

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

SUM-76-8.24
SUM-77-9.74
SUM-8-0.00

CITY OF AKRON
SUMMIT COUNTY

INDEX OF SHEETS:

TITLE SHEET	1
TYPICAL SECTION	2 - 4
PLAN AND PROFILE	5 - 10
CROSS SECTIONS	11 - 18
GRADING PLAN	19 - 22

SEE BU-02A & BU-02B FOR MAINTENANCE OF TRAFFIC
SEE BU-14 FOR STRUCTURES
SEE BU-17 FOR MSE WALLS 3,4,8, AND 11
SEE BU-19 FOR SCHEMATIC
SEE BU-28B FOR ROADWAY SOUTH OF BEACON
SEE BU-29 FOR LANE S / RAMP P
SEE BU-33A FOR IR-77/IR-76 SUMNER ST. TO BROWN ST.
SEE BU-33B FOR CENTRAL INTERCHANGE RAMP & ADJACENT ROADWAYS
SEE BU-33C FOR RSS WALL #2
SEE BU-36 FOR LIGHTING/ITS
SEE BU-39 FOR TRAFFIC CONTROL
SEE BU-42 FOR FENCING PLANS

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-2.1	7/17/15	DM-1.1	1/15/16	MH-1.1	1/15/16						
BP-2.2	1/15/21	DM-1.2	1/18/13	MH-1.2	1/15/16					800-2019 10/16/20	
BP-2.5	7/19/13	DM-2.1	1/18/13							832 10/19/18	
BP-3.1	1/17/20	DM-3.1	1/18/13	RM-1.1	1/15/21					875 1/18/19	
BP-3.2	1/18/19	DM-4.1	7/20/18	RM-4.3	7/18/14					863 10/17/14	
BP-5.1	1/18/19	DM-4.2	7/20/12	RM-4.4	7/19/19						
BP-6.1	7/19/13	DM-4.3	1/15/16	RM-4.5	7/21/17						
BP-7.1	7/17/20			RM-4.6	7/19/13						
BP-8.1	7/18/08	MGS-1.1	1/19/18	RM-5.1	7/18/14						
BP-8.2	1/18/19	MGS-2.1	1/19/18								
BP-9.1	1/18/19	MGS-3.1	1/19/18								
		MGS-3.2	1/18/13								
CB-1.1	7/19/19	MGS-4.2	7/19/13								
CB-2.1	1/15/21	MGS-4.3	1/18/13								
CB-2.2	1/15/21	MGS-5.2	7/15/16								
CB-2.3	1/15/16	MGS-5.3	7/15/16								
CB-3.1	1/15/16										
CB-3.2	1/15/16	I-2.1	1/15/16								
CB-3.3	1/15/16	I-2.2	7/19/19								
CB-3.4	1/15/16	I-2.3	1/15/16								
CB-4.2	1/18/13										

ISSUE RECORD • BU-33D ROADWAY

NO.	DATE	DESCRIPTION

PROJECT DESCRIPTION

PAVEMENT REPLACEMENT OVER SUM - I.R. 76 FROM S.L.M. 8.24 TO 10.00, SUM - 77 FROM S.L.M. 9.74 TO 11.54, AND SUM - 8 FROM S.L.M. 0.00 TO 1.75. COVERS THE "SOUTH LEG" AND "WEST LEG", INCLUDES REHABILITATION OF SEVERAL STRUCTURES IN THE CITY OF AKRON, SUMMIT COUNTY, OHIO.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2019 SPECIFICATIONS

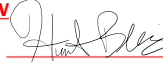
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

RECORD DRAWING PLANS

BU-33D - RSS WALL #7, #8, #9 RAMP N / I-76 EB/WB

The undersigned hereby confirms that, to the best of their knowledge, all known field modifications made after the Released for Construction plans were sealed by the Designer are included in these drawings.

RSS JV

Signed:  Assistant Project Manager Date: 8/18/2026

The undersigned hereby confirms that, to the best of their knowledge, all presented field changes have been included in the Record Drawings and the Designer concurs that the changes meet the design intent of the Contract.

Parsons Transportation Group, Inc.

Signed:  Fernando Rodriguez Design Project Manager Date: August 19, 2026



RSS WALL #7, 8, 9
RAMP N /
IR-76 EB / WB

RFC PLANS
MARCH 28, 2022

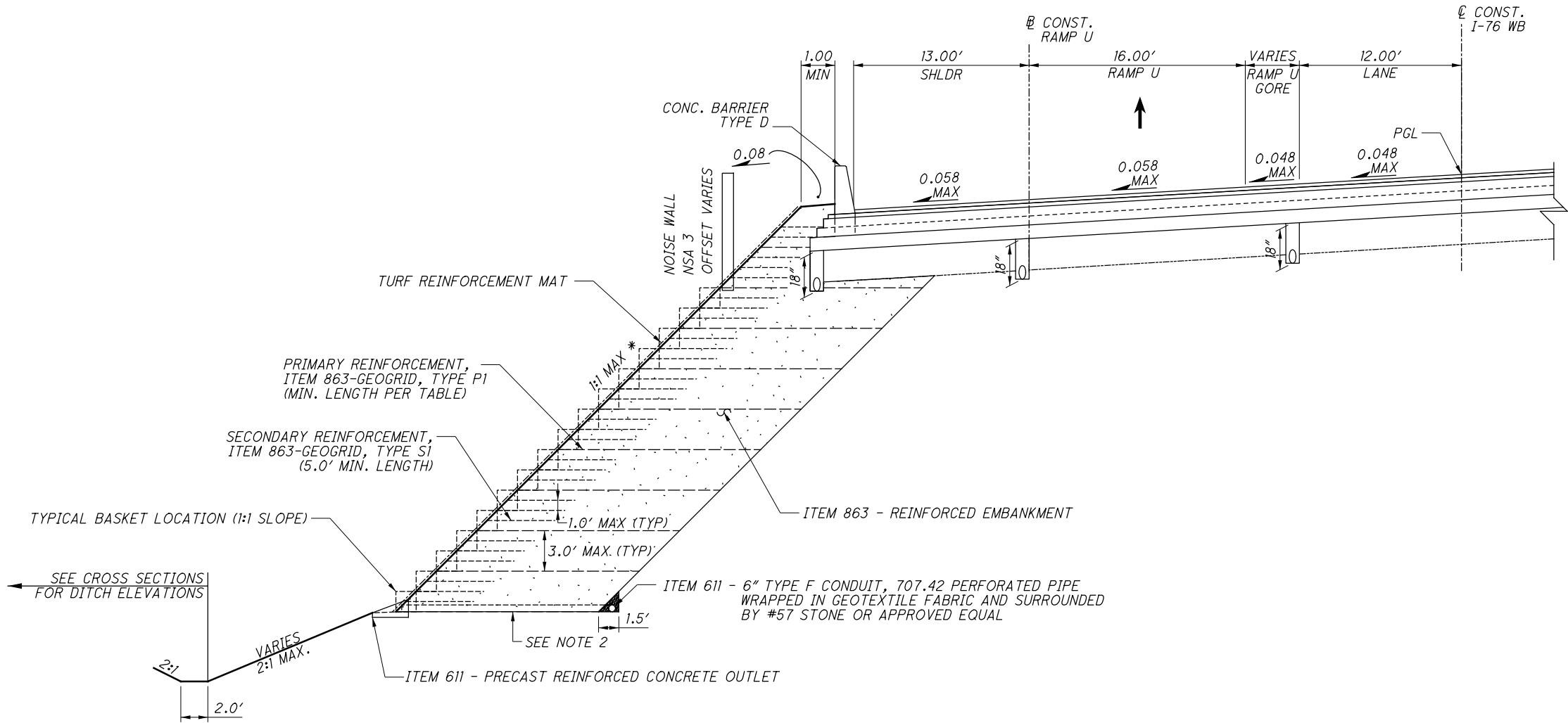
2026-03-30 - BU-33D - RECORD DRAWING PLANS

FEDERAL PROJECT NO.	E180(428)
PID NO.	102329
CONSTRUCTION PROJECT NO.	21-3000
RAILROAD INVOLVEMENT	NONE
SUM-76 / 77 / 8 - 8.24 / 9.74 / 0.00	1 22

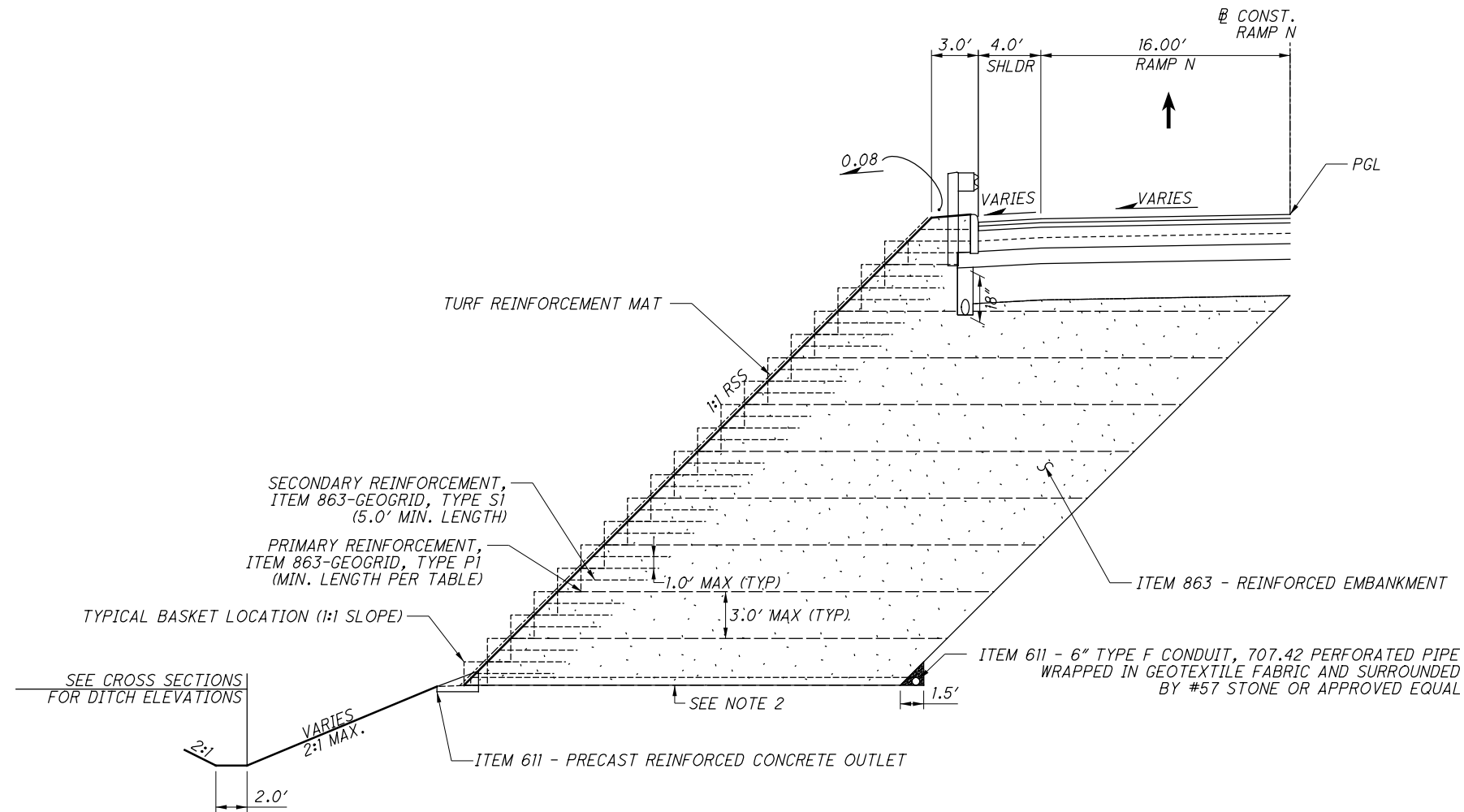
ISSUE RECORD - BU-33D ROADWAY		
NO.	DATE	DESCRIPTION

RSS NO.	CENTERLINE	APPROX. STATION RANGE		MINIMUM PRIMARY REINFORCEMENT LENGTH (FT)
		START	END	
7	IR-76 WB	STA 548+00	STA 548+75	11
		STA 548+75	STA 549+60.40	15

- NOTES:
- STRAPS SHALL BE CUT SHORT WHEN IN CONFLICT WITH PAVEMENT, UNDERDRAIN, AND/OR DRAINAGE STRUCTURES.
 - 1.0' MAX. FROM BOTTOM OF RSS TO FIRST PRIMARY REINFORCEMENT.
 - IF WET OR OTHERWISE SATURATED AREAS WITHIN THE EMBANKMENT ARE ENCOUNTERED DURING CONSTRUCTION, DRAINAGE OF THAT LOCALIZED AREA SHOULD BE INCORPORATED INTO THE EMBANKMENT CONSTRUCTION AND/OR S&ME SHOULD BE CONTACTED TO PROVIDE RECOMMENDATIONS.
 - FOR A 1H:1V RSS, THE CONTRACTOR SHALL USE WELDED WIRE FORM BASKETS THAT WILL PROVIDE EROSION CONTROL WHILE MAINTAINING A MORE ACCURATE SLOPE AND ALIGNMENT. A FACE WRAP SHALL BE PROVIDED TO RETAIN THE SOIL AND PROMOTE THE ESTABLISHMENT OF VEGETATION.
- * - 1.5:1 FROM STA. 548+00 TO STA. 548+75
1:1 FROM STA. 548+75 TO STA. 548+60.40



SEE BU-17 FOR SUM-76-1148Q ABUTMENT DETAILS
SEE BU-33B FOR RAMP U, IR-76 EB, AND IR-76 WB TYPICAL SECTIONS.
SEE BU-33B FOR GENERAL NOTES.

[illegible]

RSS NO.	BASELINE	APPROX. STATION RANGE		MINIMUM PRIMARY REINFORCEMENT LENGTH (FT)
		START	END	
8	RAMP N	STA 3339+08.49	STA 3343+00	25
		STA 3343+00	STA 3343+86.40	14

NOTES:

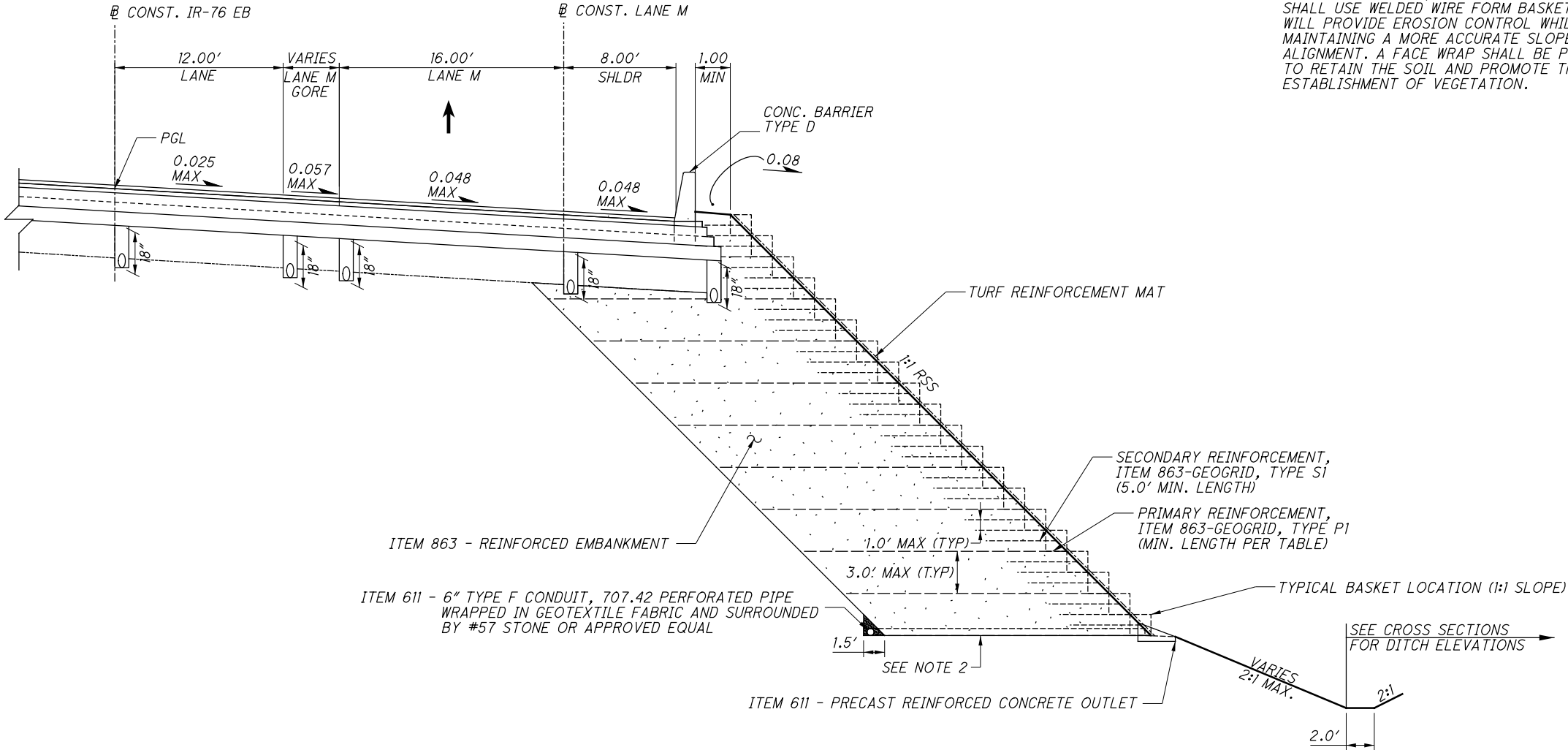
1. STRAPS SHALL BE CUT SHORT WHEN IN CONFLICT WITH PAVEMENT, UNDERDRAIN, AND/OR DRAINAGE STRUCTURES.
2. 1.0' MAX. FROM BOTTOM OF RSS TO FIRST PRIMARY REINFORCEMENT.
3. IF WET OR OTHERWISE SATURATED AREAS WITHIN THE EMBANKMENT ARE ENCOUNTERED DURING CONSTRUCTION, DRAINAGE OF THAT LOCALIZED AREA SHOULD BE INCORPORATED INTO THE EMBANKMENT CONSTRUCTION AND/OR S&ME SHOULD BE CONTACTED TO PROVIDE RECOMMENDATIONS.
4. FOR A 1H:1V RSS, THE CONTRACTOR SHALL USE WELDED WIRE FORM BASKETS THAT WILL PROVIDE EROSION CONTROL WHILE MAINTAINING A MORE ACCURATE SLOPE AND ALIGNMENT. A FACE WRAP SHALL BE PROVIDED TO RETAIN THE SOIL AND PROMOTE THE ESTABLISHMENT OF VEGETATION.

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ISSUE RECORD - BU-33D ROADWAY		
NO.	DATE	DESCRIPTION

RSS NO.	BASELINE	APPROX. STATION RANGE		MINIMUM PRIMARY REINFORCEMENT LENGTH (FT)
		START	END	
9	IR-76 EB	STA 527+75	STA 528+75	19

NOTES:
1. STRAPS SHALL BE CUT SHORT WHEN IN CONFLICT WITH PAVEMENT, UNDERDRAIN, AND/OR DRAINAGE STRUCTURES.
2. 1.0' MAX. FROM BOTTOM OF RSS TO FIRST PRIMARY REINFORCEMENT.
3. IF WET OR OTHERWISE SATURATED AREAS WITHIN THE EMBANKMENT ARE ENCOUNTERED DURING CONSTRUCTION, DRAINAGE OF THAT LOCALIZED AREA SHOULD BE INCORPORATED INTO THE EMBANKMENT CONSTRUCTION AND/OR S&ME SHOULD BE CONTACTED TO PROVIDE RECOMMENDATIONS.
4. FOR A 1H:1V RSS, THE CONTRACTOR SHALL USE WELDED WIRE FORM BASKETS THAT WILL PROVIDE EROSION CONTROL WHILE MAINTAINING A MORE ACCURATE SLOPE AND ALIGNMENT. A FACE WRAP SHALL BE PROVIDED TO RETAIN THE SOIL AND PROMOTE THE ESTABLISHMENT OF VEGETATION.

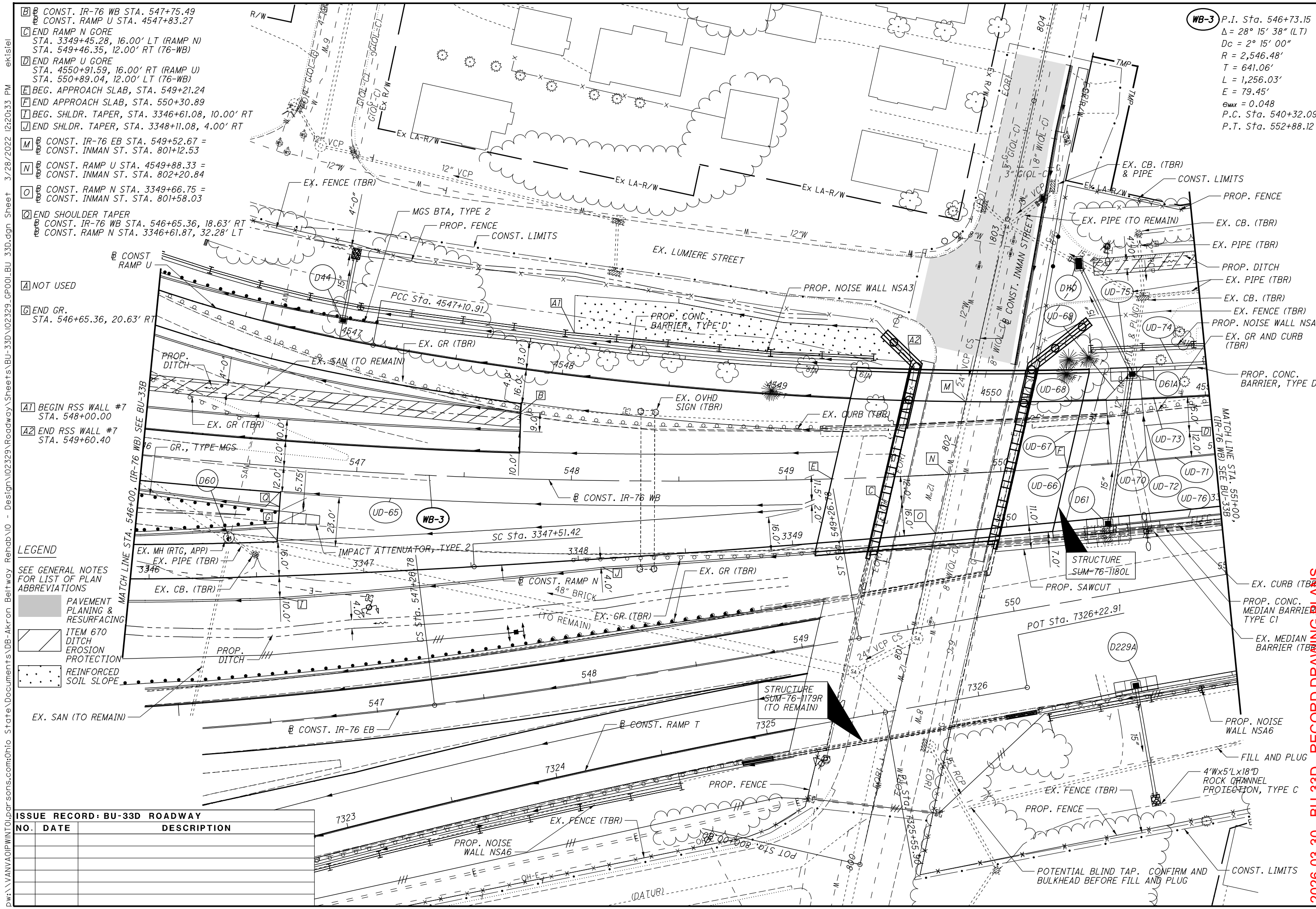


SEE BU-33C FOR RSS WALL 2 DETAILS.
SEE BU-33B FOR RAMP N, IR-76 EB, AND IR-76 WB TYPICAL SECTIONS.
SEE BU-33B FOR GENERAL NOTES.

2026-03-30 - BU-33D - RECORD DRAWING PLANS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

TYPICAL SECTION - RSS WALL #9



- CONST. IR-76 WB STA. 547+75.49
- CONST. RAMP U STA. 4547+83.27
- END RAMP N GORE STA. 3349+45.28, 16.00' LT (RAMP N) STA. 549+46.35, 12.00' RT (76-WB)
- END RAMP U GORE STA. 4550+91.59, 16.00' RT (RAMP U) STA. 550+89.04, 12.00' LT (76-WB)
- BEG. APPROACH SLAB, STA. 549+21.24
- END APPROACH SLAB, STA. 550+30.89
- BEG. SHLDR. TAPER, STA. 3346+61.08, 10.00' RT
- END SHLDR. TAPER, STA. 3348+11.08, 4.00' RT
- CONST. IR-76 EB STA. 549+52.67 = CONST. INMAN ST. STA. 801+12.53
- CONST. RAMP U STA. 4549+88.33 = CONST. INMAN ST. STA. 802+20.84
- CONST. RAMP N STA. 3349+66.75 = CONST. INMAN ST. STA. 801+58.03
- END SHOULDER TAPER
- CONST. IR-76 WB STA. 546+65.36, 18.63' RT
- CONST. RAMP N STA. 3346+61.87, 32.28' LT

- NOT USED
- END GR. STA. 546+65.36, 20.63' RT
- BEGIN RSS WALL #7 STA. 548+00.00
- END RSS WALL #7 STA. 549+60.40

LEGEND

SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS

- PAVEMENT PLANING & RESURFACING
- ITEM 670 DITCH EROSION PROTECTION
- REINFORCED SOIL SLOPE

ISSUE RECORD: BU-33D ROADWAY		
NO.	DATE	DESCRIPTION

WB-3 P.I. Sta. 546+73.15
 $\Delta = 28^\circ 15' 38''$ (LT)
 $D_c = 2^\circ 15' 00''$
 $R = 2,546.48'$
 $T = 641.06'$
 $L = 1,256.03'$
 $E = 79.45'$
 $\Theta_{max} = 0.048$
P.C. Sta. 540+32.09
P.T. Sta. 552+88.12

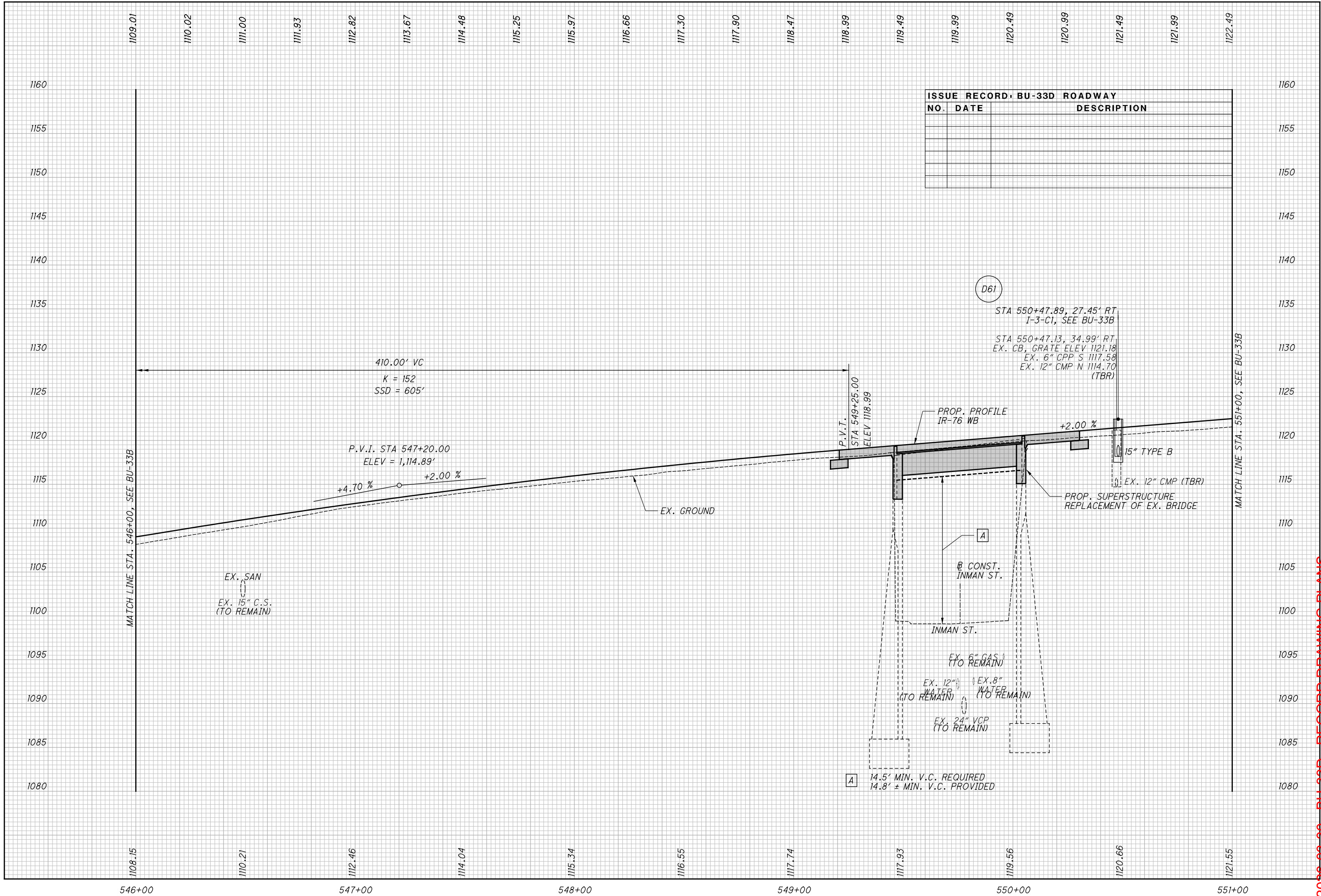
CALCULATED CGL CHECKED EAK

0 20 40 HORIZONTAL SCALE IN FEET

PLAN - IR-76 WB
STA. 546+00.00 TO STA. 551+00.00

2026-03-30 - BU-33D - RECORD DRAWING PLANS

SUM-76 / 77 / 8 -
8.24 / 9.74 / 0.00

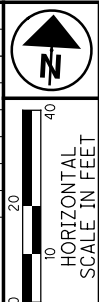


ISSUE RECORD - BU-33D ROADWAY		
NO.	DATE	DESCRIPTION

2026-03-30 - BU-33D - RECORD DRAWING PLANS

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ISSUE RECORD - BU-33D ROADWAY		
NO.	DATE	DESCRIPTION



- LEGEND
- SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS
- TIED CONCRETE BLOCK MAT W/ TYPE 2 UNDERLAYMENT
 - DITCH EROSION PROTECTION
 - RCP, TYPE C
 - REINFORCED SOIL SLOPE

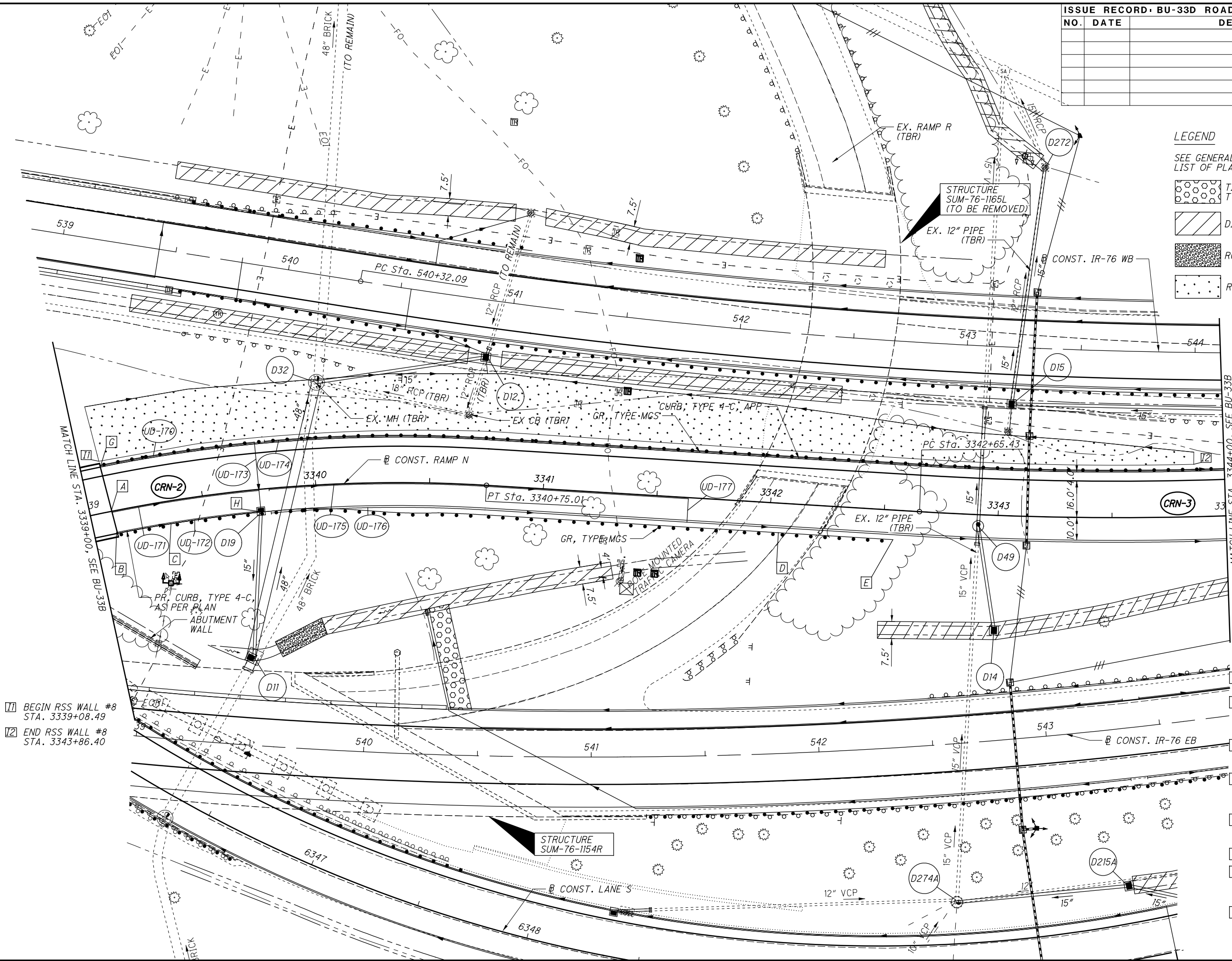
CRN-2

P.I. Sta. 3337+14.20
 $\Delta = 94^\circ 59' 43''$ (RT)
 $D_c = 9^\circ 00' 00''$
 $R = 636.62'$
 $T = 694.69'$
 $L = 1,055.50'$
 $E = 305.65'$
 $\theta_{max} = 0.060$
P.C. Sta. 3330+19.51
P.T. Sta. 3340+75.01
HSSD = 305' (360' MIN)
ACTUAL DESIGN SPEED = 40 MPH

CRN-3

P.I. Sta. 3344+08.90
 $\Delta = 11^\circ 26' 23''$ (LT)
 $D_c = 4^\circ 00' 00''$
 $R = 1,432.39'$
 $T = 143.47'$
 $L = 285.99'$
 $E = 7.17'$
 $\theta_{max} = 0.046$
P.C. Sta. 3342+65.43
P.T. Sta. 3345+51.43

- A END APPROACH SLAB STA. 3339+09.43
- B END CONC. BARRIER BEGIN BTA TYPE 1 AND CURB, TYPE 4-C STA. 3339+09.95, 9.50' R
- C END BTA TYPE 1 BEGIN GR TRANSITION STA. 3339+34.52, 10.0' R
- D END GR. BEGIN ANCHOR ASSEMBLY, TYPE E STA. 3342+04.18, 13.0' RT
- E END ANCHOR ASSEMBLY, TYPE E STA. 3342+54.18, 13.0' R
- F NOT USED
- G BEGIN GR, TYPE MGS BTA TYPE 1 BEGIN CURB, TYPE 4-C, APP STA. 3339+08.62, 20.0' L
- H END CURB STA. 3339+73.56, 9.5' L

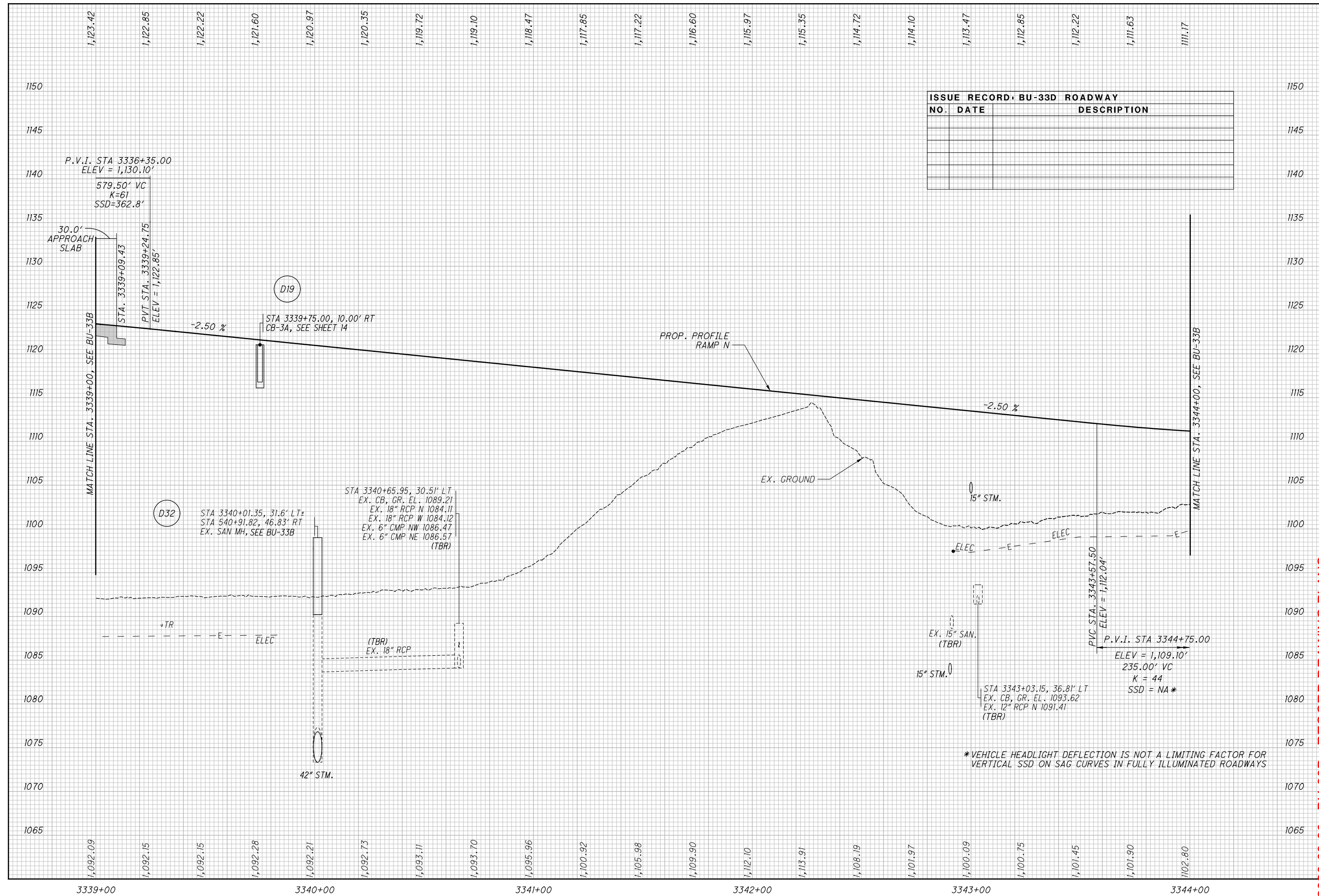


- 11 BEGIN RSS WALL #8 STA. 3339+08.49
- 12 END RSS WALL #8 STA. 3343+86.40

2026-03-10 - BU-33D - RECORD DRAWING PLANS

PLAN - RAMP N
STA. 3339+00.00 TO STA. 3344+00.00

SUM-76/77/8-
8.24/9.74/0.00

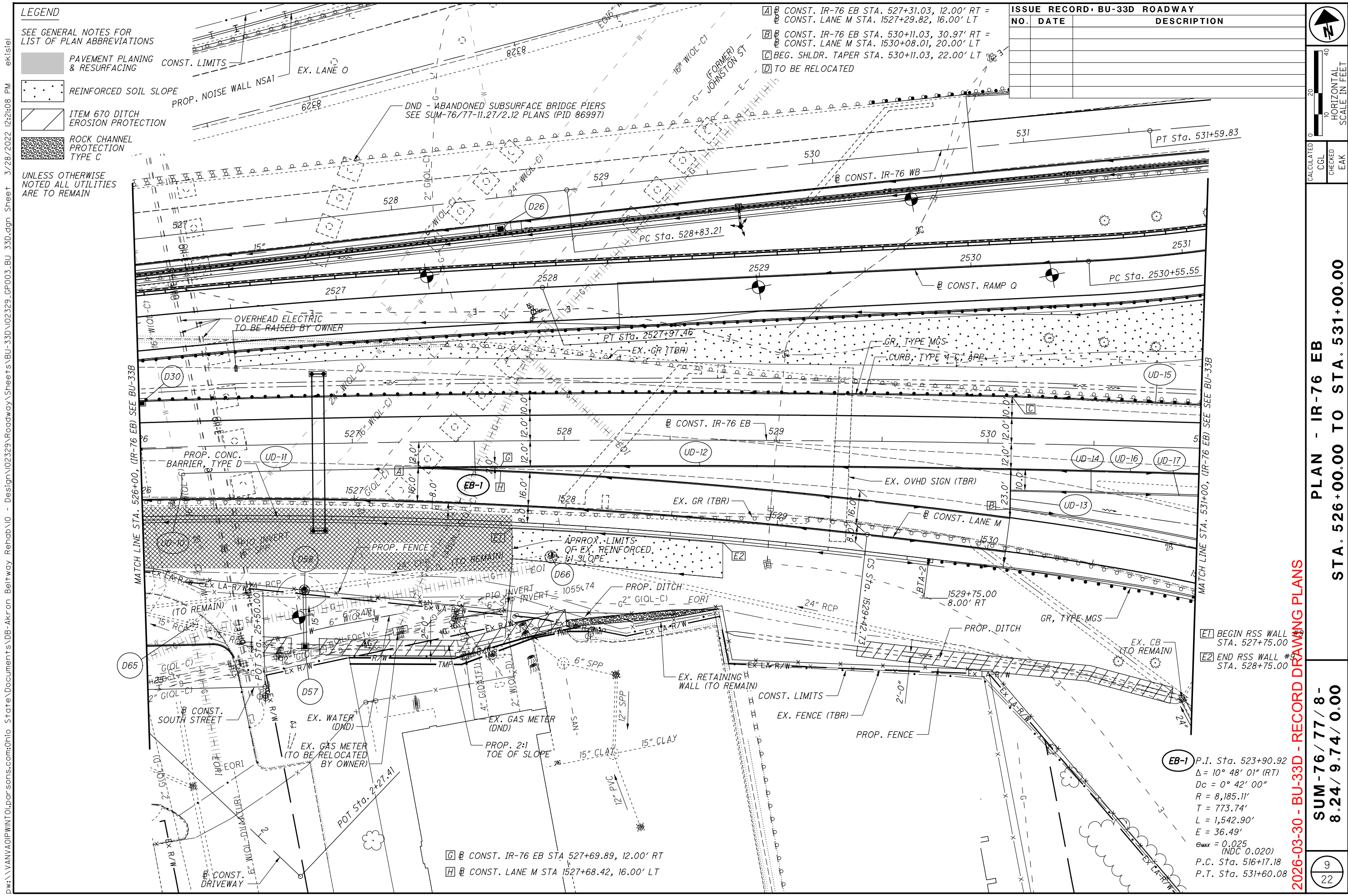


2026-03-30 - BU-33D - RECORD DRAWING PLANS

**SUM-76/77/8-
8.24/9.74/0.00**

PROFILE - RAMP N
STA. 3339+00.00 TO STA. 3344+00.00

CALCULATED	CGL
CHECKED	EAK



LEGEND

SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS

PAVEMENT PLANING & RESURFACING

REINFORCED SOIL SLOPE

ITEM 670 DITCH EROSION PROTECTION

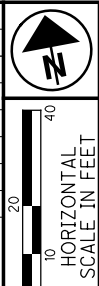
ROCK CHANNEL PROTECTION TYPE C

UNLESS OTHERWISE NOTED ALL UTILITIES ARE TO REMAIN

ISSUE RECORD - BU-33D ROADWAY

NO.	DATE	DESCRIPTION

- CONST. IR-76 EB STA. 527+31.03, 12.00' RT = CONST. LANE M STA. 1527+29.82, 16.00' LT
- CONST. IR-76 EB STA. 530+11.03, 30.97' RT = CONST. LANE M STA. 1530+08.01, 20.00' LT
- BEG. SHLDR. TAPER STA. 530+11.03, 22.00' LT
- TO BE RELOCATED



CALCULATED CGL CHECKED EAK

PLAN - IR-76 EB
STA. 526+00.00 TO STA. 531+00.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

9
22

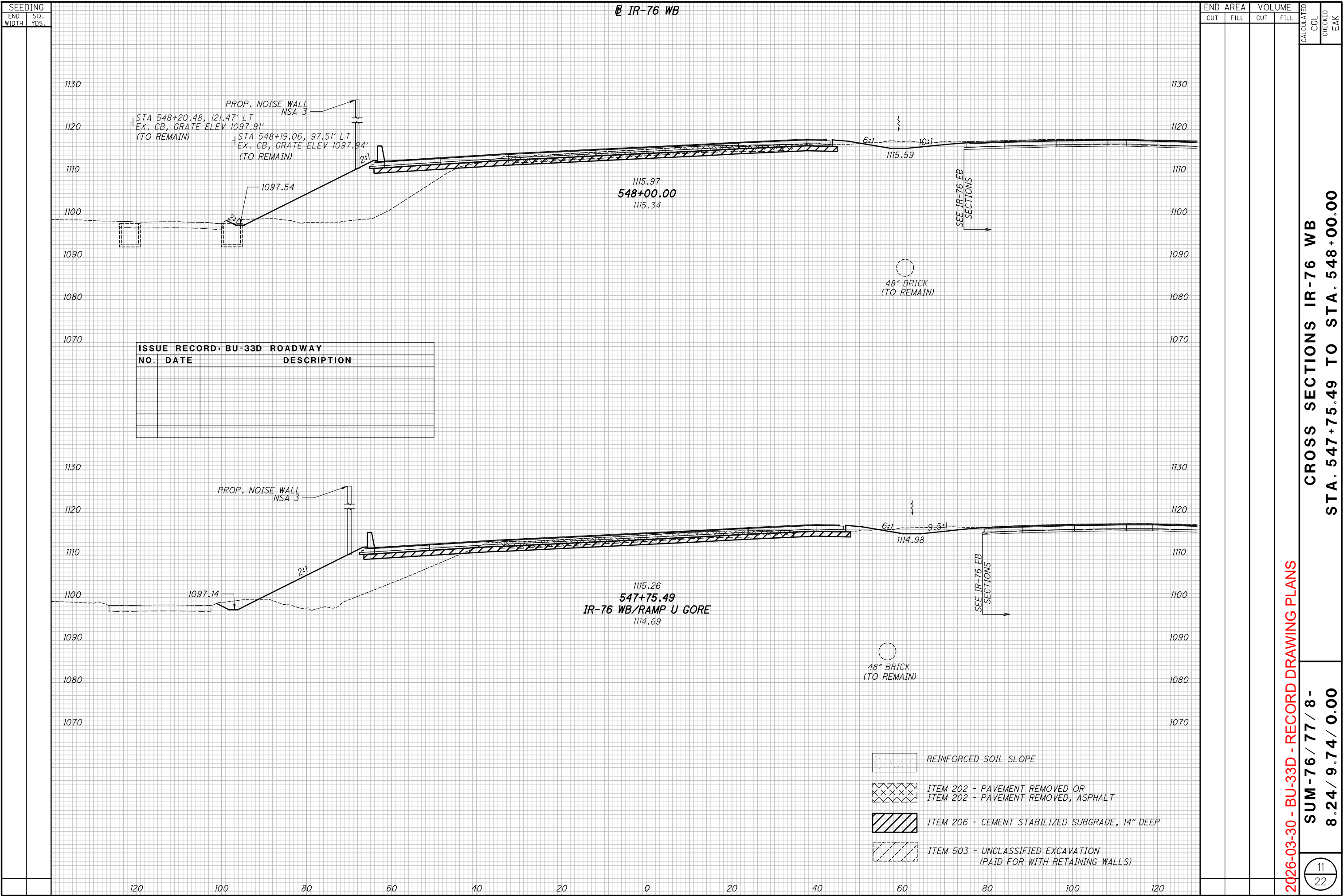
2026-03-30 - BU-33D - RECORD DRAWING PLANS

- E1 BEGIN RSS WALL STA. 527+75.00
- E2 END RSS WALL #9 STA. 528+75.00

EB-1 P.I. Sta. 523+90.92
 $\Delta = 10^\circ 48' 01''$ (RT)
 $D_c = 0^\circ 42' 00''$
 $R = 8,185.11'$
 $T = 773.74'$
 $L = 1,542.90'$
 $E = 36.49'$
 $e_{max} = 0.025$
(NDC 0.020)
P.C. Sta. 516+17.18
P.T. Sta. 531+60.08

- G CONST. IR-76 EB STA 527+69.89, 12.00' RT
- H CONST. LANE M STA 1527+68.42, 16.00' LT

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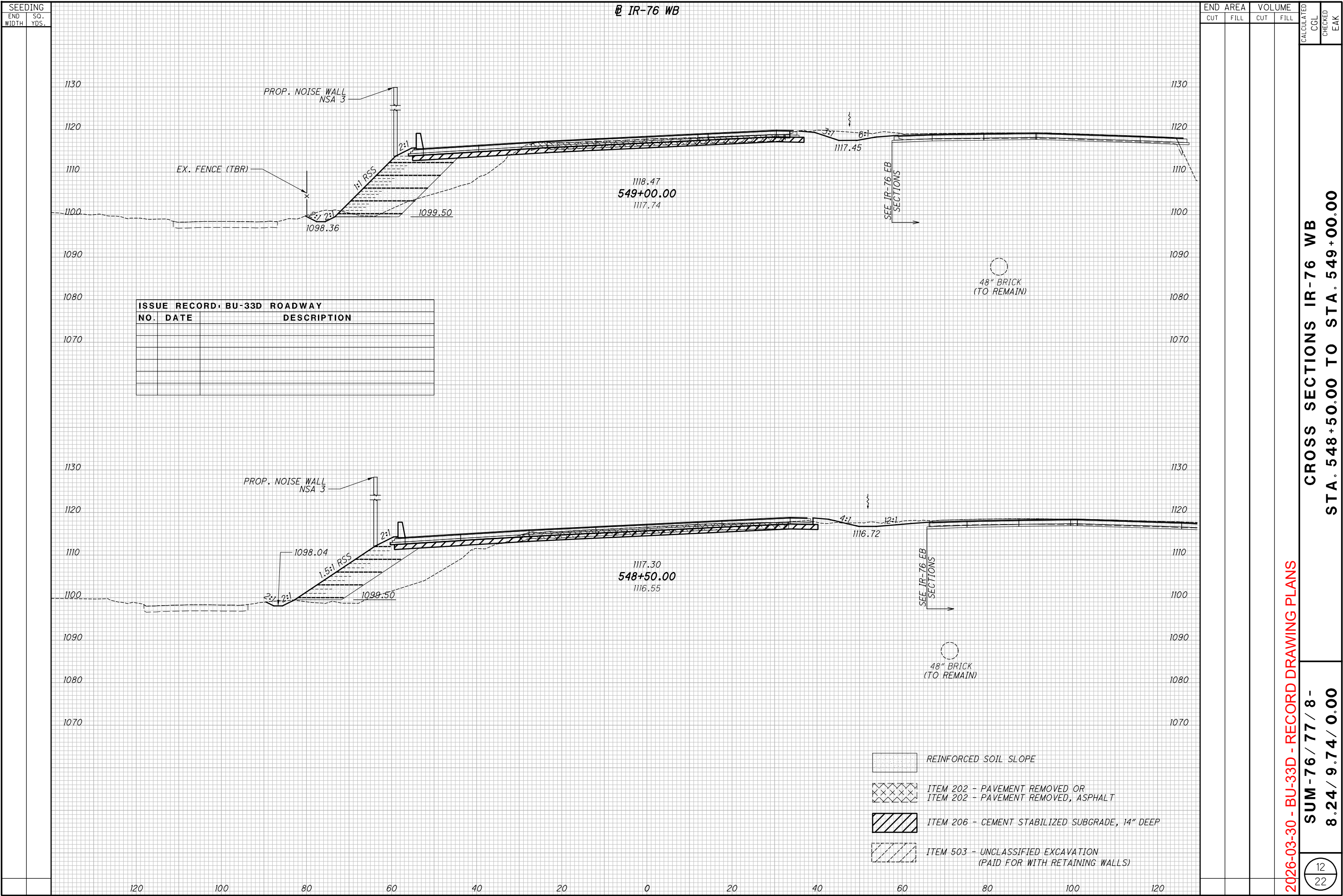
2026-03-30 - BU-33D - RECORD DRAWING PLANS

CROSS SECTIONS IR-76 WB
STA. 547+75.49 TO STA. 548+00.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

11
22

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2026-03-30 - BU-33D - RECORD DRAWING PLANS

CROSS SECTIONS IR-76 WB
STA. 548+50.00 TO STA. 549+00.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

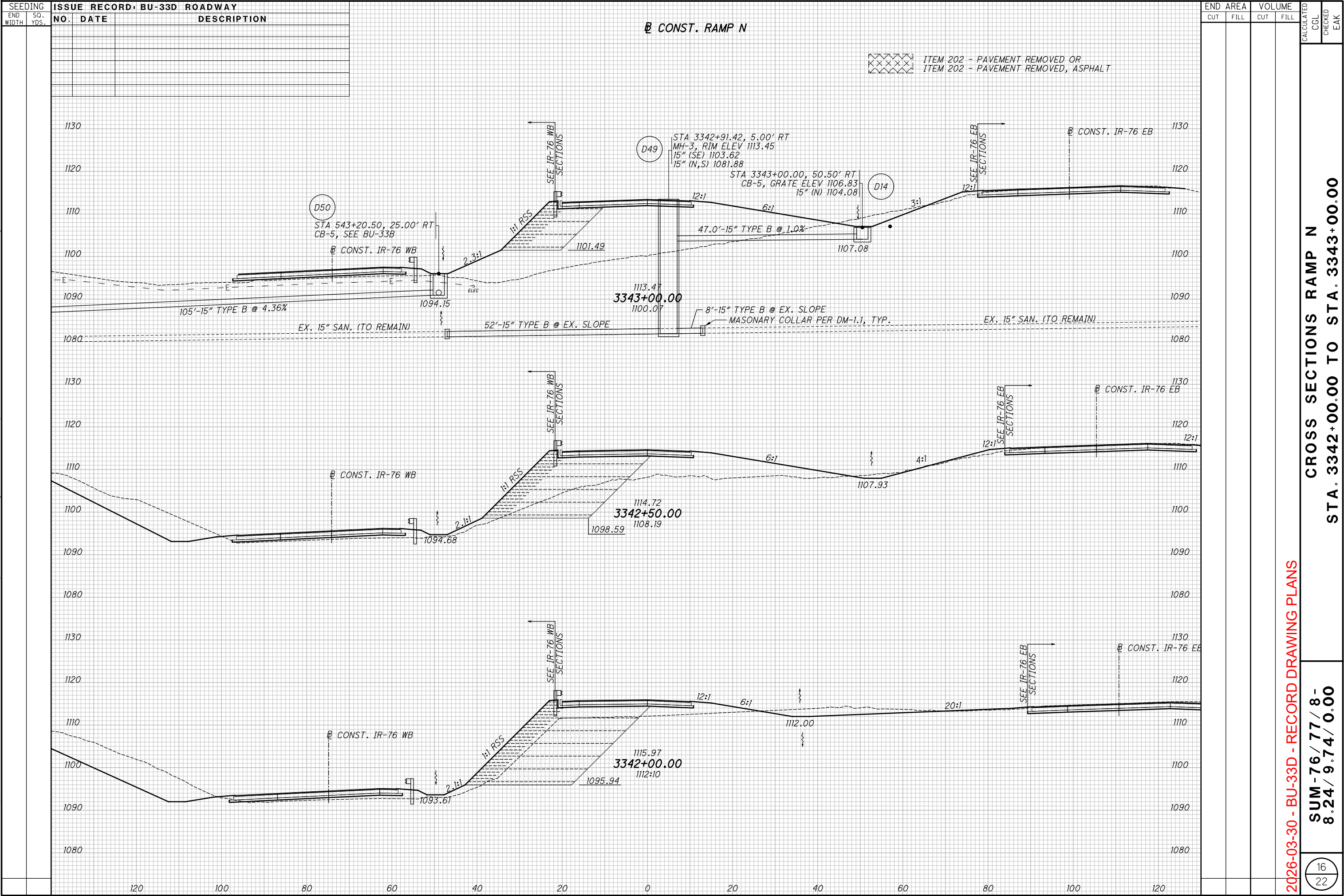
12
22

2026-03-30 - BU-33D - RECORD DRAWING PLANS

2026-03-30 - BU-33D - RECORD DRAWING PLANS

$$\frac{15}{22}$$

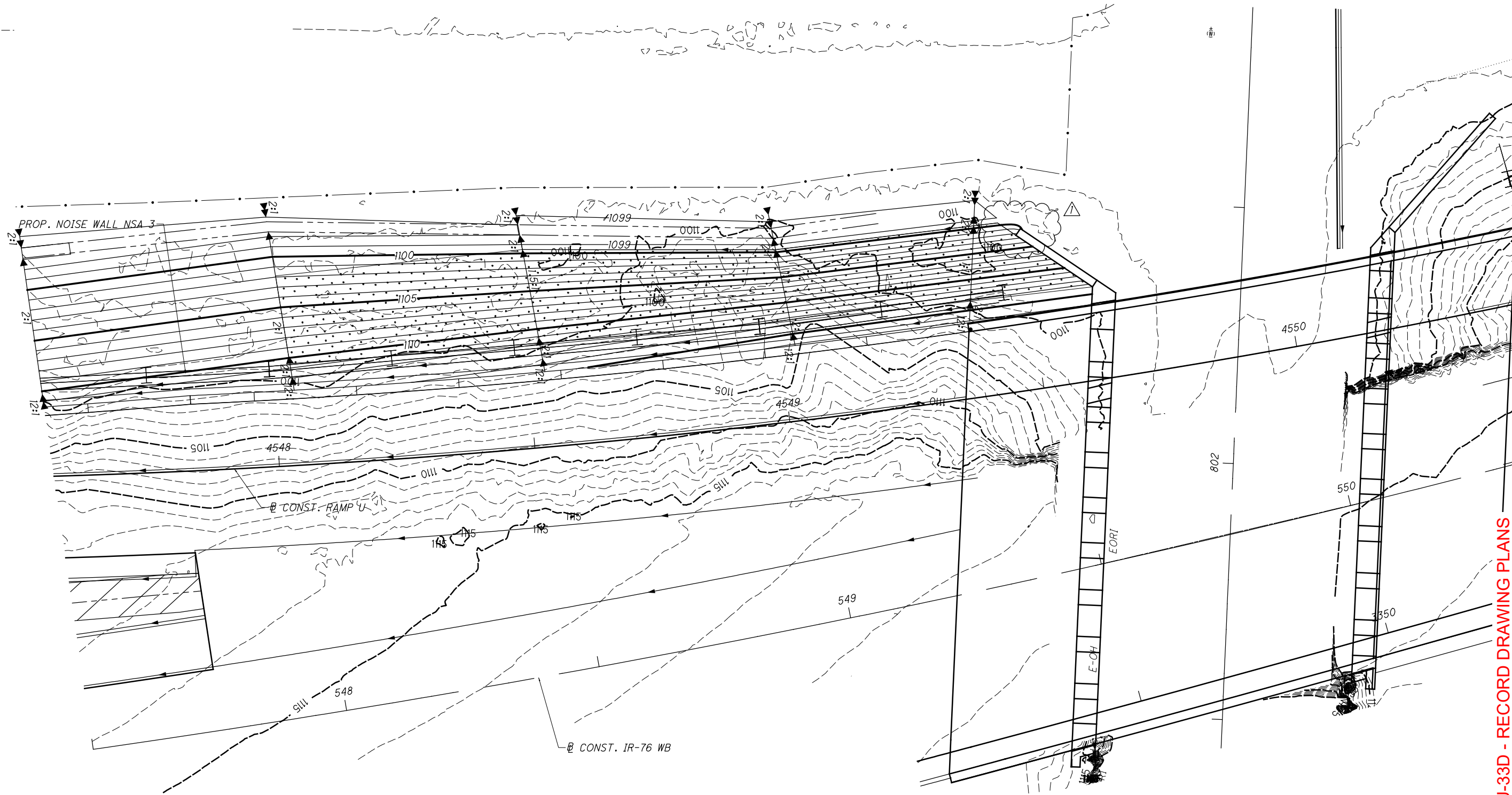
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ISSUE RECORD BU-33D ROADWAY		
NO.	DATE	DESCRIPTION
1	03/31/22	GRADING REVISION



2026-03-30 - BU-33D - RECORD DRAWING PLANS

**SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00**

GRADING PLAN
RSS WALL #7

ISSUE RECORD - BU-33D ROADWAY		
NO.	DATE	DESCRIPTION
AB	03/26/2024	WALL 8 MODIFICATIONS

CALCULATED
JTB

CHECKED
EAK

0 5 10 20

HORIZONTAL
SCALE IN FEET

↑

N

AB

539

540

541

CONST. IR-76 WB

CONST. RAMP N

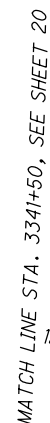
MATCH LINE STA. 3342+00, SEE SHEET 21

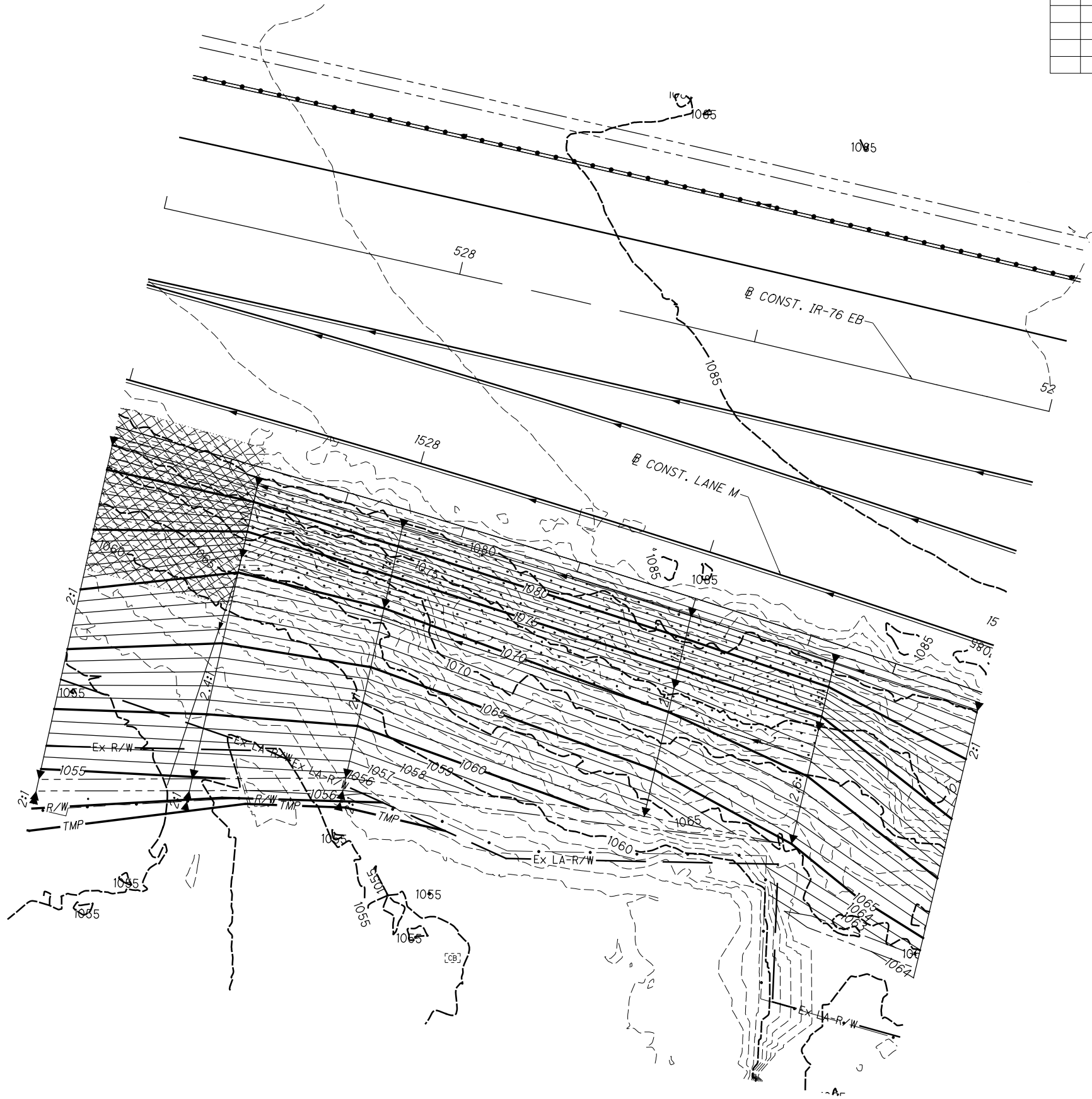
2026-03-30 - BU-33D - RECORD DRAWING PLANS

SUM-76/77/8-
8.24/9.74/0.00

GRADING PLAN - RSS WALL #8
STA. 3339+50 TO STA. 3341+50

20
22

[illegible]



ISSUE RECORD - BU-33D ROADWAY		
NO.	DATE	DESCRIPTION

CALCULATED
JTB

CHECKED
EAK

0 10 20
HORIZONTAL
SCALE IN FEET