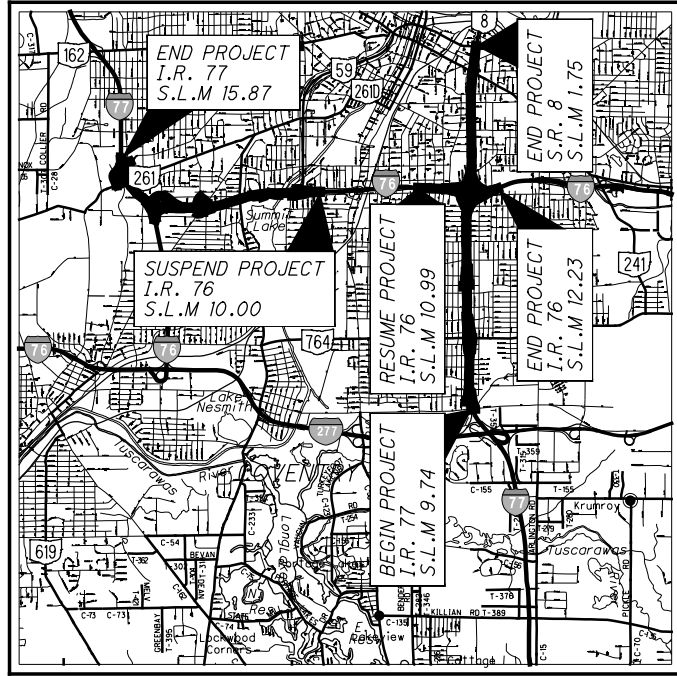


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**LOCATION MAP**

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



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

**DESIGN DESIGNATIONS**

SEE BU 19

**DESIGN EXCEPTIONS**

NUMBER	ROUTE	DESIGN FEATURE	APPROVAL DATES	SHEET NUMBERS
4	I-77 / SR 8	INSIDE SHOULDER WIDTH	05/12/2020	3 - 5
6	I-77 / SR 8	LANE WIDTH OUTSIDE SHOULDER WIDTH	05/12/2020	3 - 5
8	SR 8	OUTSIDE SHOULDER WIDTH	06/16/2021	3 - 5

**INDEX OF SHEETS:**

TITLE SHEET	1
TYPICAL SECTIONS	2 - 7
GENERAL NOTES	8 - 10
PLAN AND PROFILE	11 - 30
CROSS SECTIONS	31 - 68
SUPERELEVATION TABLES	69 - 70
INLET DETAILS	71 - 74
UNDERDRAIN OUTLET DETAILS	75 - 76
BARRIER DETAILS	77 - 86

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-18 FOR LANE S / SB SR-8 RET. WALL  
SEE BU-19 FOR SCHEMATIC  
SEE BU-28A FOR ROADWAY NORTH OF BEACON  
SEE BU-29 FOR LANE S / RAMP P  
SEE BU-33A & BU-33B FOR CENTRAL INTERCHANGE  
SEE BU-34 FOR ROADWAY SOUTH OF STA. 4298+00  
SEE BU-36 FOR LIGHTING/ITS  
SEE BU-39 FOR TRAFFIC CONTROL  
SEE BU-42 FOR FENCING PLANS  
SEE SUM-76/77/8-10.99/11.54/0.00 PLANS FOR NOISEWALLS

**UNDERGROUND UTILITIES**  
Contact Two Working Days  
Before You Dig



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

PLAN PREPARED BY:



ENGINEERS SEAL:



SIGNED: [Signature]  
DATE: 11/18/21

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/17/20	DM-1.2	1/18/13	800-2019 10/16/20	
BP-5.1	1/18/19		I-2.1 1/15/16	832 10/19/18	
BP-9.1	1/18/19	DM-4.1 7/17/20	I-2.2 7/19/19	837 7/19/19	
		DM-4.2 7/20/12	I-2.3 1/15/16	875 1/18/19	
CB-1.1	7/19/19	DM-4.3 1/15/16	MH-1.1 1/15/16	899 1/17/20	
CB-2.1	7/20/18		MH-1.2 1/15/16		
CB-2.2	7/20/18				
CB-2.3	1/15/16	MGS-1.1 1/19/18	RM-1.1 7/18/14		
CB-3.1	1/15/16	MGS-2.1 1/19/18	RM-4.3 7/18/14		
CB-3.2	1/15/16	MGS-3.1 1/19/18	RM-4.4 7/19/19		
CB-3.3	1/15/16	MGS-3.2 1/18/13	RM-4.5 7/21/17		
CB-3.4	1/15/16	MGS-4.2 7/19/13	RM-4.6 7/19/13		
CB-4.2	1/18/13	MGS-4.3 1/18/13			
		MGS-5.2 7/15/16			
DM-1.1	7/17/20	MGS-5.3 7/15/16			

**MS**  
AKRON BELTWAY JV  
BU-28B  
RESURFACING  
&  
WIDENING  
S.R. 8 at Kipling St. to  
S.R. 8 at Beacon Ave.  
RFC PLANS  
NOVEMBER 18, 2021

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

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

**CITY OF AKRON**  
**SUMMIT COUNTY**

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Thomas J Powell, PE  
11/22/2021

ISSUE RECORD - BU-28B 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.

2021-11-18 - BU 28B - RFC

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

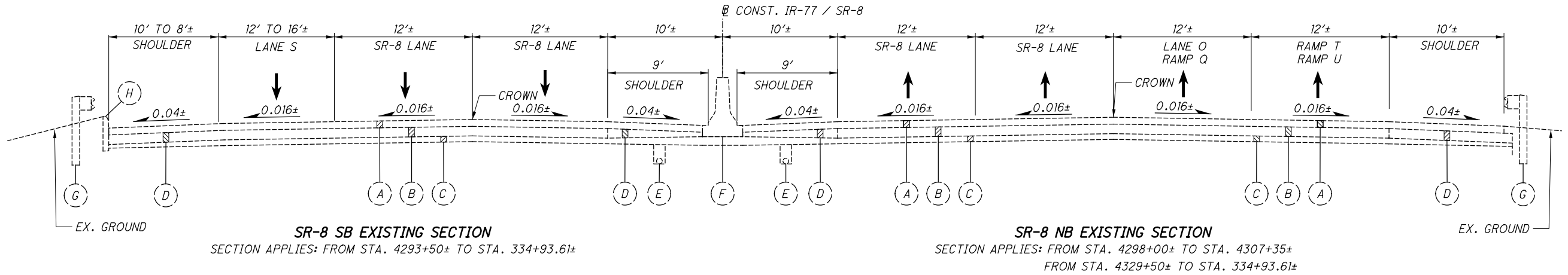
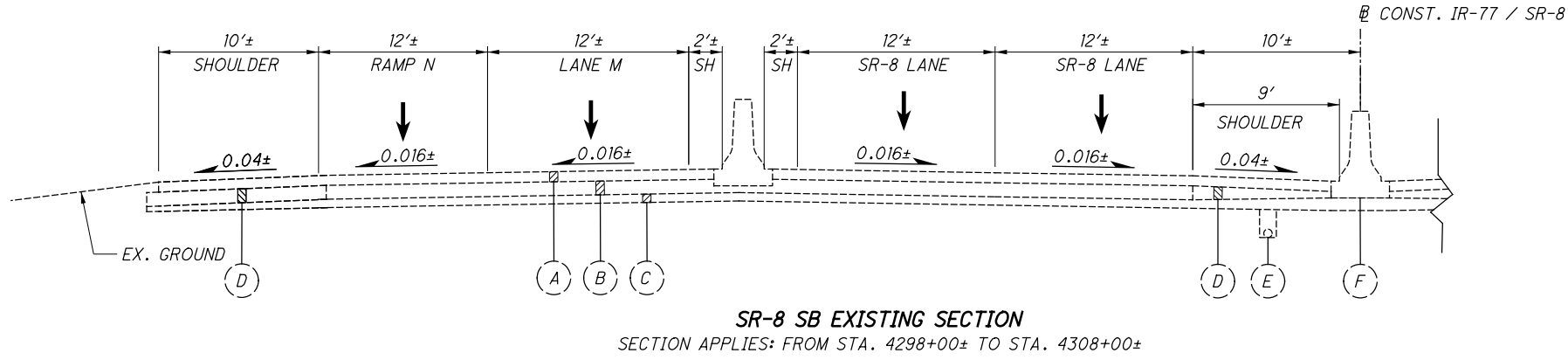
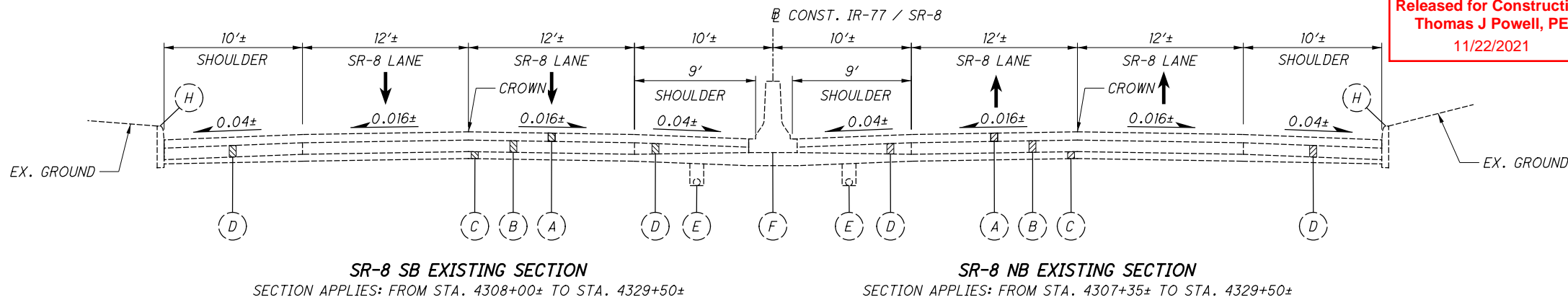
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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



LEGEND - PROPOSED ITEMS

- 1 ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN
- 2 ITEM 407 - NON-TRACKING TACK COAT
- 3 ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN
- 4 ITEM 302 - 8" ASPHALT CONCRETE BASE, PG 64-22 (TWO EQUAL LIFTS)
- 5 ITEM 304 - 6" AGGREGATE BASE, AS PER PLAN
- 6 ITEM 204 - PROOF ROLLING
- 7 ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)
- 8 ITEM 606 - GUARDRAIL TYPE MGS OR GUARDRAIL TYPE MGS WITH LONG POSTS

- 9 ITEM 659 - SEEDING AND MULCHING OR ITEM 670 - EROSION CONTROL MAT, TYPE E (USED ON ALL 2:1 SLOPES)
- 10 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
- 11 ITEM 609 - CURB, TYPE 4-C, AS PER PLAN
- 12 NOT USED
- 13 ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP
- 14 NOT USED
- 15 NOT USED
- 16 ITEM 204 - EXCAVATION OF SUBGRADE, 12 INCHES DEEP

- 17 ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FILTER, 18"
- 18 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1 OR C1
- 19 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN
- 20 ITEM 601 - CONCRETE SLOPE PROTECTION
- 21 NOT USED
- 22 ITEM 204 - EMBANKMENT

LEGEND - EXISTING ITEMS

- (A) EX. VARIES 4"± - 5"± ASPHALT CONCRETE
- (B) EX. 10"± REINFORCED CONCRETE PAVEMENT
- (C) EX. 6"± SUBBASE
- (D) EX. 10"± AGGREGATE BASE
- (E) EX. UNDERDRAIN
- (F) EX. CONCRETE BARRIER
- (G) EX. GUARDRAIL
- (H) EX. CURB

TYPICAL SECTIONS - EXISTING

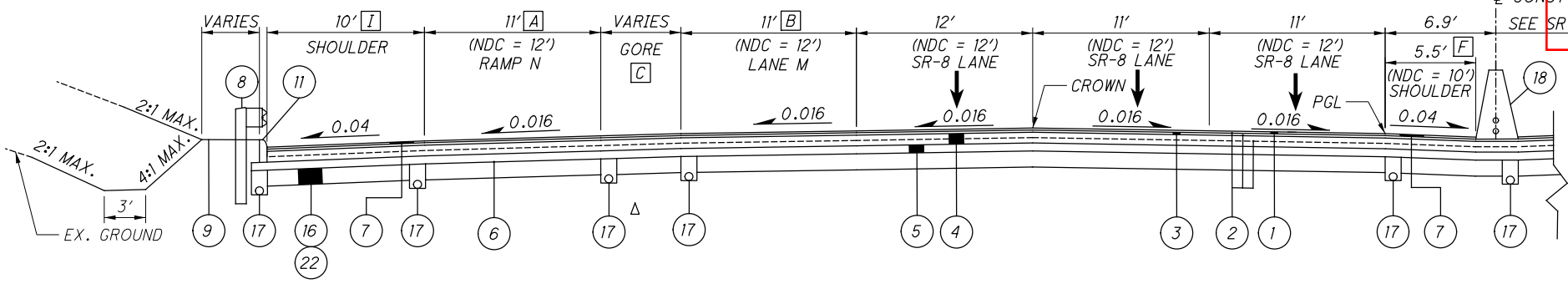
2021-11-18 - BU 28B - RFC

SUM-76/77/8.24/9.74/0.00

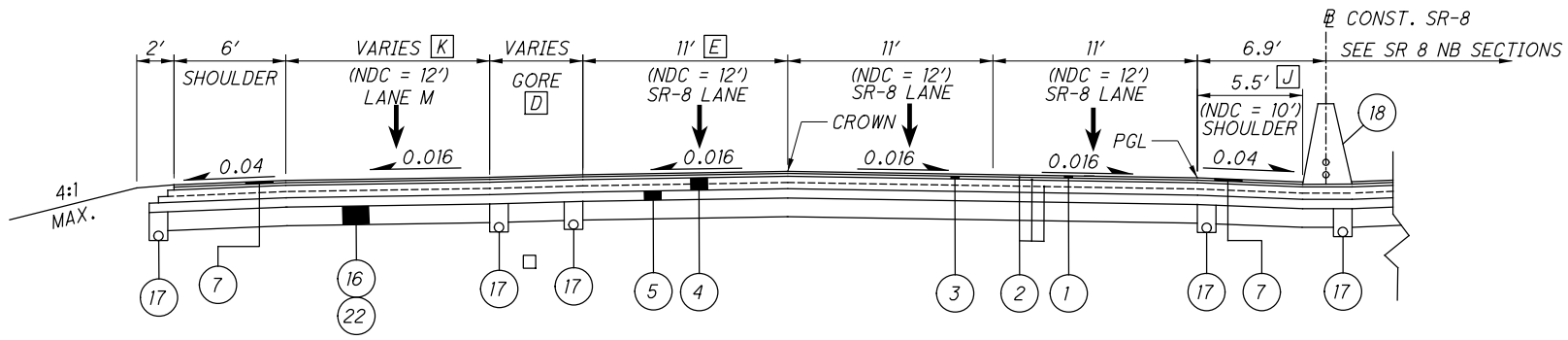
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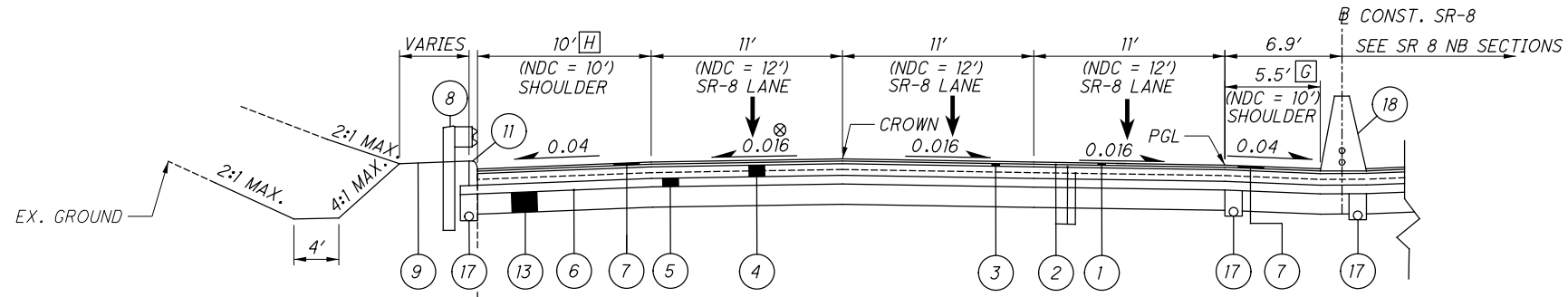
ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



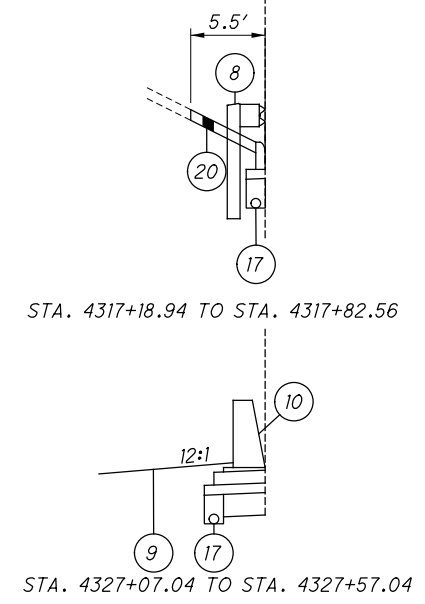
**NORMAL SECTION - SR-8 SB**  
STA. 4298+00.00 TO STA. 4305+45.90



**NORMAL SECTION - SR-8 SB**  
STA. 4305+45.90 TO STA. 4309+77.62



**NORMAL SECTION - SR-8 SB**  
STA. 4309+77.62 TO STA. 4327+57.04



- [A] VARIES FROM 11' AT STA. 4298+26.93 TO 16' AT STA. 4300+77.09  
16' FROM STA. 4300+77.09 TO STA. 4505+45.90
  - [B] VARIES FROM 11' AT STA. 4300+77.09 TO 13.4' AT STA. 4305+45.90
  - [C] 0' FROM STA. 4298+00.00 TO STA. 4300+77.09  
VARIES FROM 0' AT STA. 4300+77.09 TO 23' AT STA. 4305+45.90
  - [D] 0' FROM STA. 4305+45.90 TO STA. 4306+10.41  
VARIES FROM 0' AT STA. 4306+10.41 TO 23' AT STA. 4309+77.62
  - [E] VARIES FROM 12' AT STA. 4306+10.41 TO 11' AT STA. 4306+70.41
  - [F] VARIES FROM 5.5' AT STA. 4299+05.00 TO 4.7' AT STA. 4299+45.00  
4.7' FROM STA. 4299+45.00 TO STA. 4299+55.00  
VARIES FROM 4.7' AT STA. 4299+55.00 TO 5.5' AT STA. 4299+95.00
  - [G] 4.4' FROM STA. 4309+77.62 TO STA. 4309+85.00  
VARIES FROM 4.4' AT STA. 4309+85.00 TO 5.5' AT STA. 4310+25.00  
VARIES FROM 5.5' AT STA. 4316+30.00 TO 2.1' AT STA. 4316+95.08  
2.1' FROM STA. 4316+95.08 TO STA. 4317+40.00  
VARIES FROM 2.1' AT STA. 4317+40.00 TO 4.0' AT STA. 4317+80.00  
4.0' FROM STA. 4317+80.00 TO STA. 4319+60.57  
VARIES FROM 4.0' AT STA. 4319+60.57 TO 5.5' AT STA. 4320+00.57  
VARIES FROM 5.5' AT STA. 4321+16.25 TO 2.4' AT STA. 4321+65.00  
2.4' FROM STA. 4321+65.00 TO STA. 4322+09.02  
VARIES FROM 2.4' AT STA. 4322+09.02 TO 5.5' AT STA. 4322+57.75  
VARIES FROM 5.5' AT STA. 4326+88.80 TO 4.0' AT STA. 4327+28.80  
4.0' FROM STA. 4327+28.80 TO STA. 4327+57.04
  - [H] VARIES FROM 10.0' AT STA. 4316+68.15 TO 2.75' AT STA. 4317+18.90  
2.75' FROM STA. 4317+18.90 TO STA. 4320+71.13  
VARIES FROM 2.75' AT STA. 4320+71.13 TO 10.0' AT STA. 4322+52.24  
VARIES FROM 10.0' AT STA. 4326+84.54 TO 5.5' AT STA. 4327+07.04  
5.5' FROM STA. 4327+07.04 TO STA. 4327+57.04
  - [I] VARIES FROM 10.0' AT STA. 4298+00 TO 8.0' AT STA. 4299+26.86  
8.0' FROM STA. 4299+26.86 TO STA. 4302+30.79  
VARIES FROM 8.0' AT STA. 4302+30.79 TO 6.0' AT STA. 4303+30.17  
6.0' FROM STA. 4303+30.17 TO STA. 4305+45.90
  - [J] VARIES FROM 5.5' AT STA. 4309+35.00 TO 4.4' AT STA. 4309+75.00  
4.4' FROM STA. 4309+75.00 TO STA. 4309+77.62
  - [K] VARIES FROM 13.4' AT STA. 4305+45.90 TO 16.0' AT STA. 4306+10.41
- △ BEGIN UNDERDRAIN STA. 4303+21.94
  - BEGIN UNDERDRAIN STA. 4306+49.10
  - ⊗ VARIES FROM 0.0160 AT STA. 4319+17.49  
TO 0.0320 AT STA. 4319+95.63  
0.0320 FROM STA. 4319+95.63 TO STA. 4320+45.63  
VARIES FROM 0.0320 AT STA. 4320+45.63  
TO 0.0160 AT STA. 4321+23.77

TYPICAL SECTIONS - PROPOSED SB SR-8

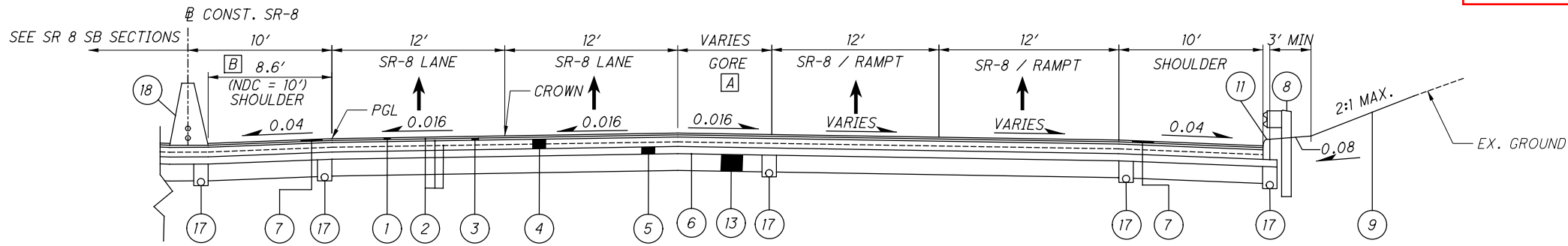
2021-11-18 - BU 28B - RFC

SUM-76/47.00  
 /8/77/7.00  
 8.24/9.74

FOR LEGEND, SEE SHEET 2  
FOR DETAILS, SEE SHEET 7

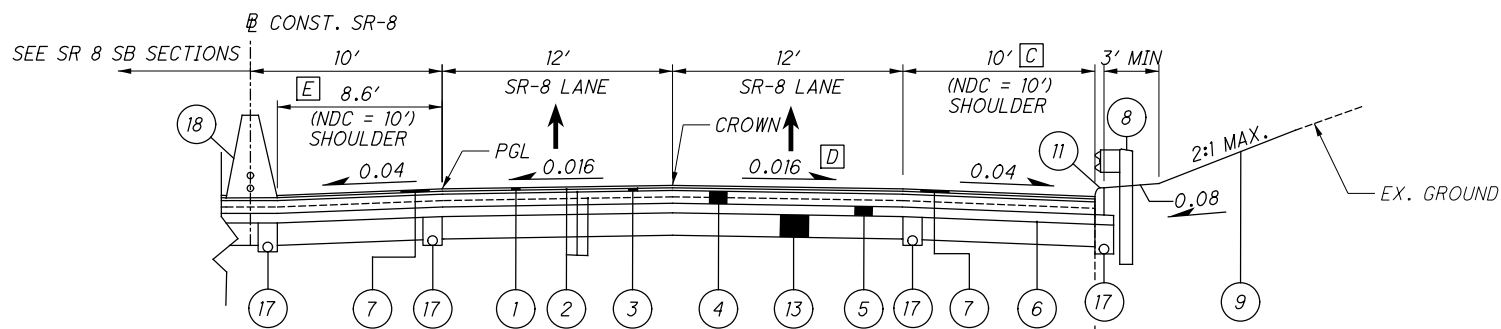
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 11/22/2021

ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



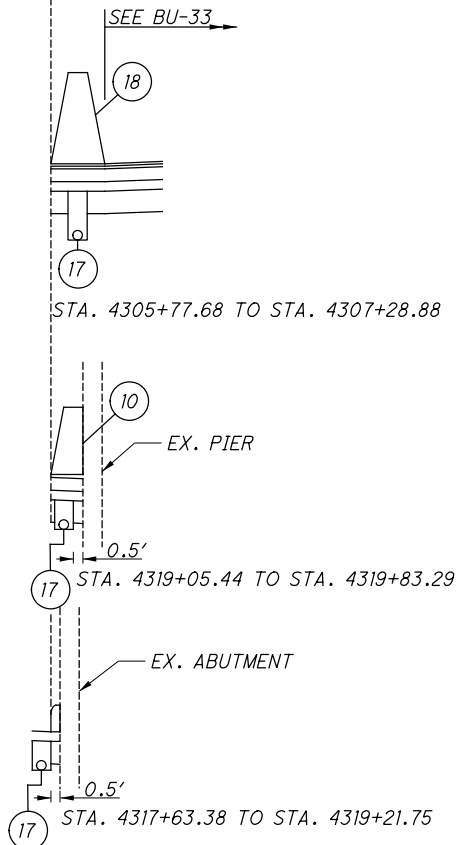
**NORMAL SECTION - SR-8 NB**  
 STA. 4298+00.00 TO STA. 4305+77.68

- A VARIES FROM 0' AT STA. 4297+94.62 TO 2' AT STA. 4299+47.28  
 VARIES FROM 2' AT STA. 4299+47.28 TO 22.7' AT STA. 4305+48.11  
 22.7' FROM STA. 4305+48.11 TO STA. 4305+77.68
- B VARIES FROM 8.6' AT STA. 4299+05.00 TO 7.8' AT STA. 4299+45.00  
 7.8' FROM STA. 4299+45.00 TO STA. 4299+55.00  
 VARIES FROM 7.8' AT STA. 4299+55.00 TO 8.6' AT STA. 4299+95.00



**NORMAL SECTION - SR-8 NB**  
 STA. 4305+77.68 TO STA. 4329+57.78

- C 10.1' STA. 4305+77.68 TO STA. 4306+07.68  
 VARIES FROM 10.1' AT STA. 4306+07.68 TO 8.0' AT STA. 4306+48.73  
 8.0' FROM STA. 4306+48.73 TO STA. 4306+58.76  
 VARIES FROM 8.0' AT STA. 4306+58.76 TO 10.0' AT STA. 4306+98.76  
 VARIES FROM 10.0' AT STA. 4316+82.73 TO 8.75' AT STA. 4317+13.98  
 8.75' FROM STA. 4317+13.98 TO STA. 4319+95.79  
 VARIES FROM 8.75' AT STA. 4319+95.79 TO 10.0' AT STA. 4320+11.41
- D CROSS SLOPE VARIES FROM 0.0160 AT STA. 4306+00.00  
 TO -0.0160 AT STA. 4307+00.00  
 CROSS SLOPE VARIES FROM -0.0160 AT STA. 4329+04.77  
 TO -0.0051 AT STA. 4329+57.78
- E VARIES FROM 8.6' AT STA. 4309+35.00 TO 7.5' AT STA. 4309+75.00  
 7.5' FROM STA. 4309+75.00 TO STA. 4309+85.00  
 VARIES FROM 7.5' AT STA. 4309+85.00 TO 8.6' AT STA. 4310+25.00  
 VARIES FROM 8.6' AT STA. 4316+30.00 TO 5.0' AT STA. 4316+95.08  
 5.0' FROM STA. 4316+95.08 TO STA. 4317+40.00  
 VARIES FROM 5.0' AT STA. 4317+40.00 TO 7.1' AT STA. 4317+80.00  
 7.1' FROM STA. 4317+80.00 TO STA. 4319+60.57  
 VARIES FROM 7.1' AT STA. 4319+60.57 TO 8.6' AT STA. 4320+00.57  
 VARIES FROM 8.6' AT STA. 4321+16.25 TO 5.5' AT STA. 4321+65.00  
 5.5' FROM STA. 4321+65.00 TO STA. 4322+09.02  
 VARIES FROM 5.5' AT STA. 4322+09.02 TO 8.6' AT STA. 4322+57.75  
 VARIES FROM 8.6' AT STA. 4326+88.80 TO 7.1' AT STA. 4327+28.80  
 7.1' FROM STA. 4327+28.80 TO STA. 4328+04.98  
 VARIES FROM 7.1' AT STA. 4328+04.98 TO 8.6' AT STA. 4328+44.98



STA. 4305+77.68 TO STA. 4307+28.88

STA. 4319+05.44 TO STA. 4319+83.29

STA. 4317+63.38 TO STA. 4319+21.75

SEE BU-33

FOR LEGEND, SEE SHEET 2  
 FOR DETAILS, SEE SHEET 7

2021-11-18 - BU 28B - RFC

TYPICAL SECTIONS - PROPOSED NB SR-8

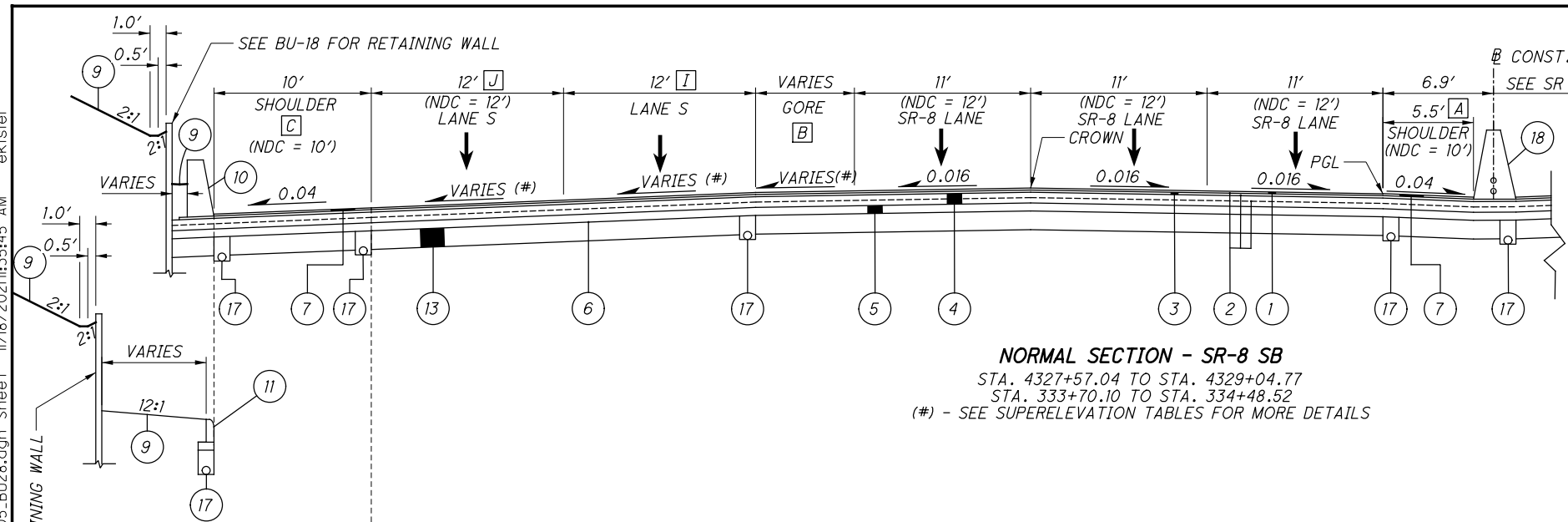
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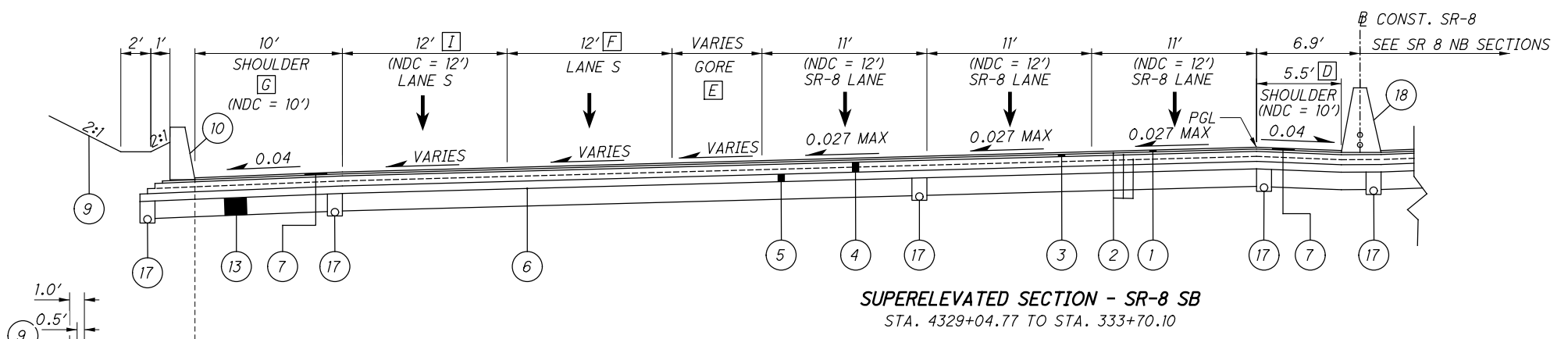
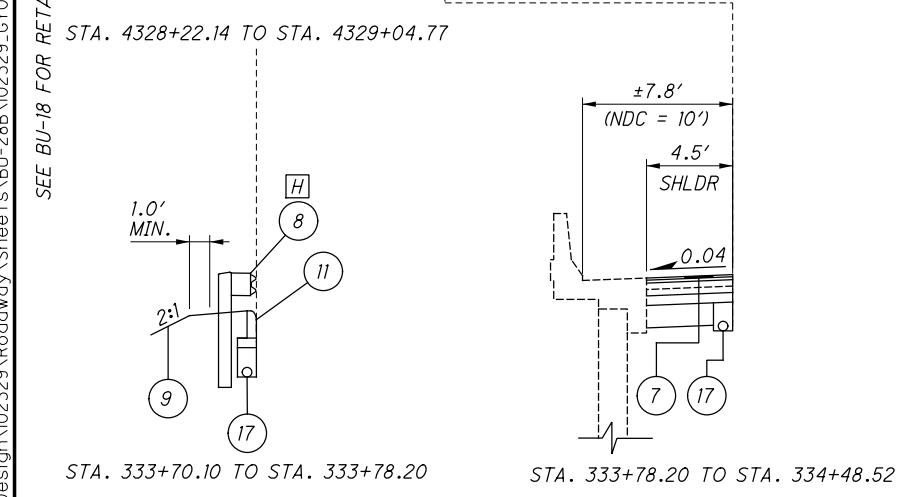
Released for Construction  
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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



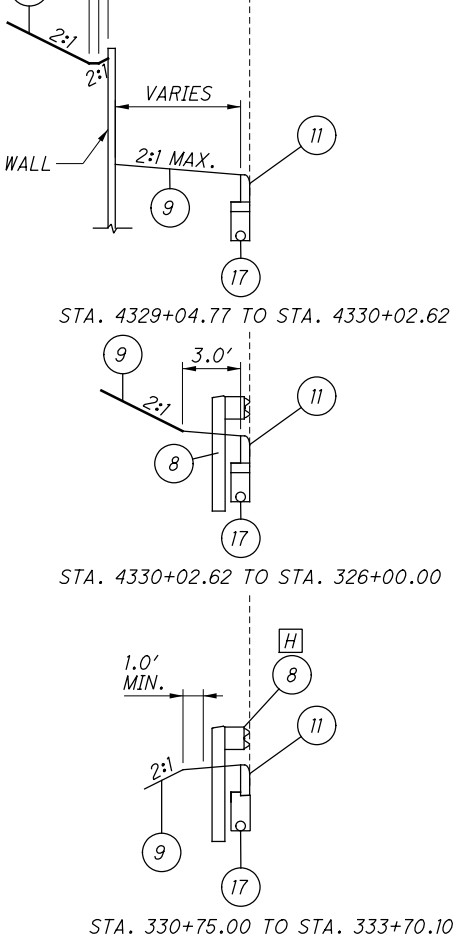
**NORMAL SECTION - SR-8 SB**  
 STA. 4327+57.04 TO STA. 4329+04.77  
 STA. 333+70.10 TO STA. 334+48.52  
 (#) - SEE SUPERELEVATION TABLES FOR MORE DETAILS

- A 4.0' FROM STA. 4327+57.04 TO STA. 4328+04.98  
VARIES FROM 4.0' AT STA. 4328+04.98 TO 5.5' AT STA. 4328+44.98
- B VARIES FROM 23.0' AT STA. 4327+57.04 TO 6.2' AT STA. 4329+04.77  
0.0' FROM STA. 333+70.10 TO STA. 334+48.52
- C 8.0' FROM STA. 333+70.10 TO STA. 334+78.20
- I 0.0' FROM STA. 333+70.10 TO STA. 334+48.52
- J 11.0' FROM STA. 333+70.10 TO STA. 334+48.52



**SUPERELEVATED SECTION - SR-8 SB**  
 STA. 4329+04.77 TO STA. 333+70.10

- D VARIES FROM 5.5' AT STA. 4329+34.63 TO 4.7' AT STA. 4329+74.63  
4.7' FROM STA. 4329+74.63 TO STA. 4330+14.89  
VARIES FROM 4.7' AT STA. 4330+14.89 TO 5.5' AT STA. 4330+54.89  
VARIES FROM 5.5' AT STA. 331+55.11 TO 4.7' AT STA. 331+95.11  
4.7' FROM STA. 331+95.11 TO STA. 332+05.11  
VARIES FROM 4.7' AT STA. 332+05.11 TO 5.5' AT STA. 332+45.11
- E VARIES FROM 6.2' AT STA. 4329+04.77 TO 0.0' AT STA. 4329+82.16  
0.0' FROM STA. 4329+82.16 TO STA. 333+70.10
- F VARIES FROM 12.0' AT STA. 4329+82.16 TO 0.0' AT STA. 327+39.78  
0.0' FROM STA. 327+39.78 TO STA. 333+70.10
- G VARIES FROM 10.0' AT STA. 332+98.23 TO 8.0' AT STA. 333+48.19  
8.0' FROM STA. 333+48.19 TO STA. 333+70.10
- H LONG POST GUARDRAIL LIMITS STA. 332+53.20 TO STA. 333+78.20
- I VARIES FROM 12.0' AT STA. 327+39.78 TO 11.0' AT STA. 328+73.06  
11.0' FROM STA. 328+73.06 TO STA. 333+70.10



FOR LEGEND, SEE SHEET 2  
 FOR DETAILS, SEE SHEET 7

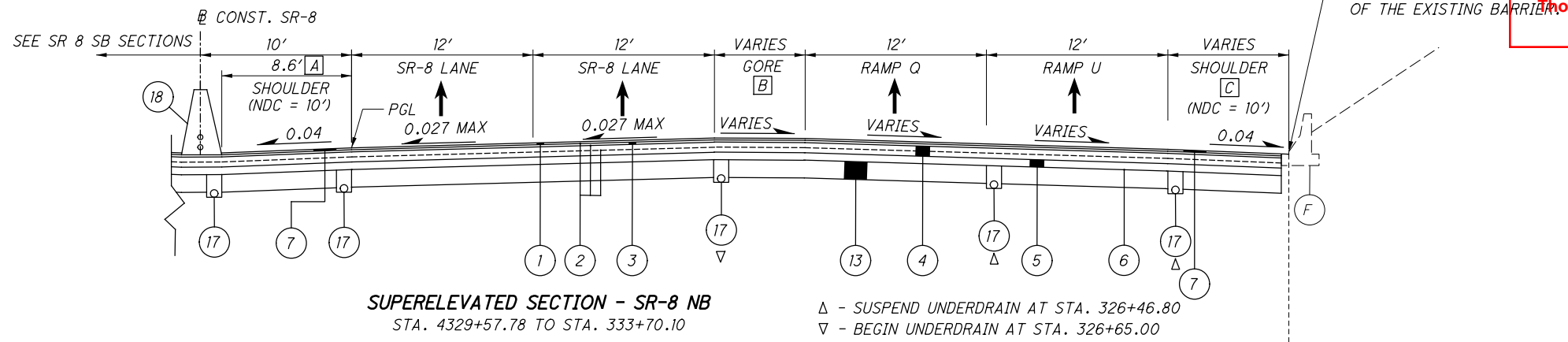
TYPICAL SECTIONS - PROPOSED SB SR-8

2021-11-18 - BU 28B - RFC

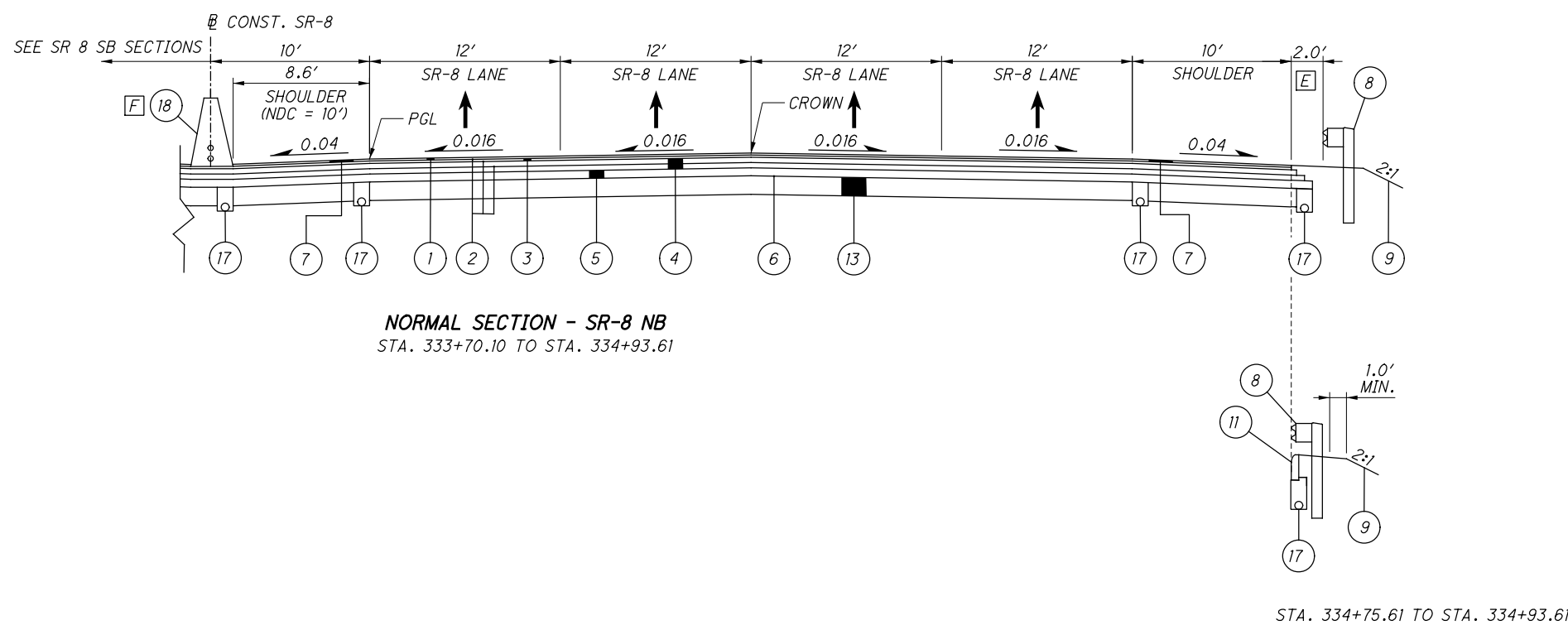
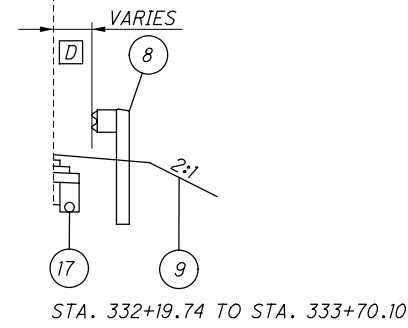
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 8.24 / 9.74

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11/22/2021

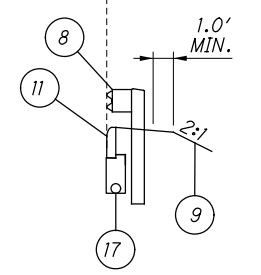
ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



- A** VARIES FROM 8.6' AT STA. 4329+34.63 TO 7.8' AT STA. 4329+74.63  
 7.8' FROM STA. 4329+74.63 TO STA. 4330+14.89  
 VARIES FROM 7.8' AT STA. 4330+14.89 TO 8.6' AT STA. 4330+54.89  
 VARIES FROM 8.6' AT STA. 331+55.11 TO 7.8' AT STA. 331+95.11  
 7.8' FROM STA. 331+95.11 TO STA. 332+05.11  
 VARIES FROM 7.8' AT STA. 332+05.11 TO 8.6' AT STA. 332+45.11
- B** VARIES FROM 16.5' AT STA. 4329+57.78 TO 0.0' AT STA. 326+46.80
- C** WIDTH VARIES FROM STA. 4329+57.78 TO STA. 332+19.74  
 VARIES FROM 8.6' AT STA. 332+19.74 TO 10.0' AT STA. 332+36.55
- D** 0.0' FROM STA. 332+19.74 TO STA. 332+36.55  
 VARIES FROM 0.0' AT STA. 332+36.55 TO 2.0' AT STA. 332+60.55



- E** VARIES FROM 2.0' AT STA. 334+44.35 TO 0.0' AT STA. 334+69.27  
 0.0' FROM STA. 334+69.27 TO STA. 334+93.61
- F** END PROPOSED BARRIER AT STA. 334+36.00±  
 @ EX. INLET JOINT

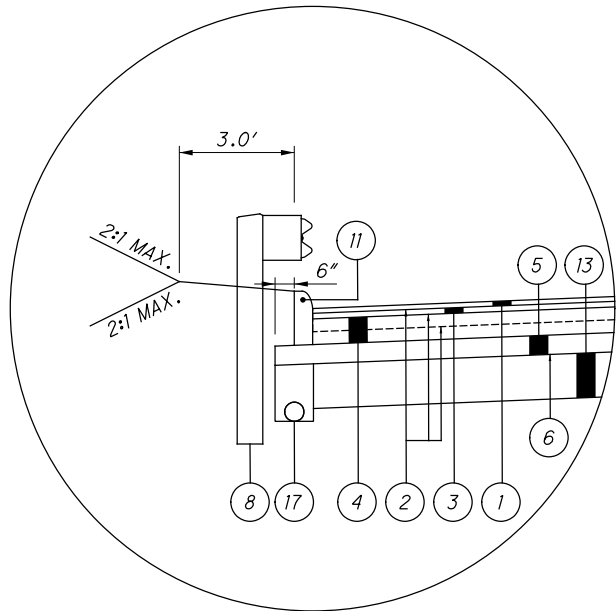


FOR LEGEND. SEE SHEET 2  
FOR DETAILS, SEE SHEET 7

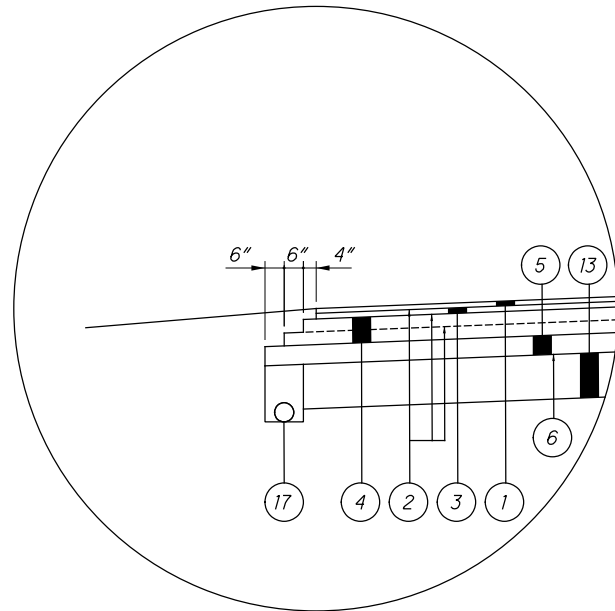
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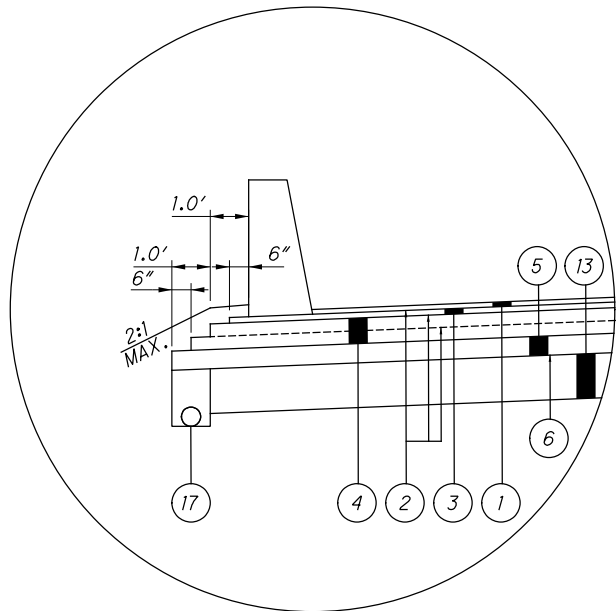
ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



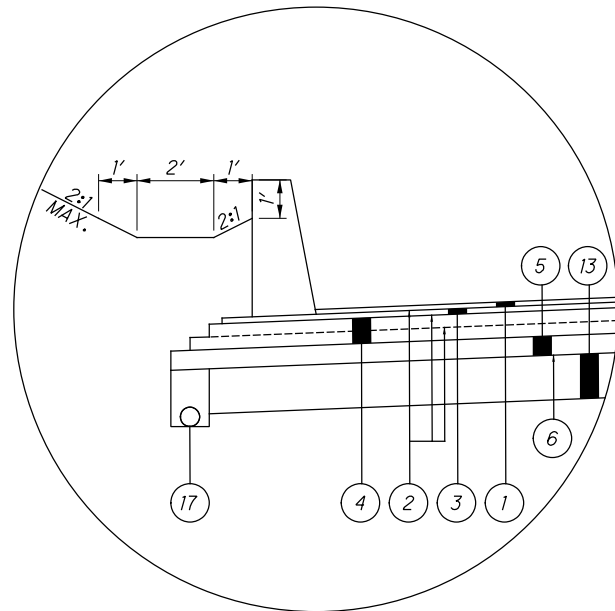
CURB AND GUARDRAIL DETAIL



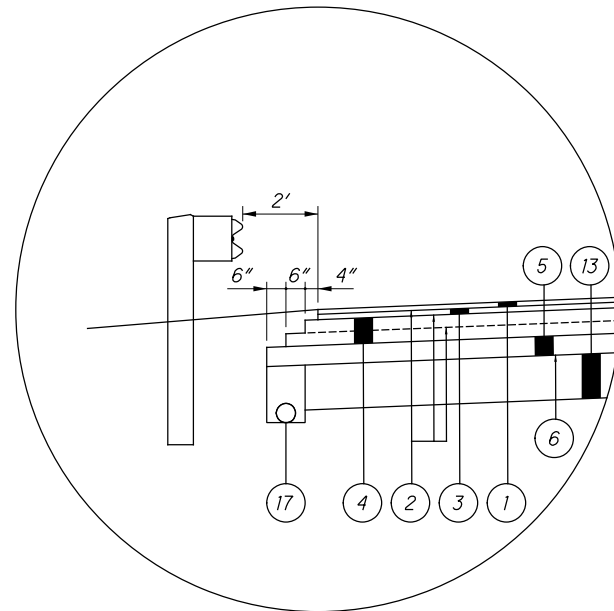
PAVEMENT "STEP" DETAIL



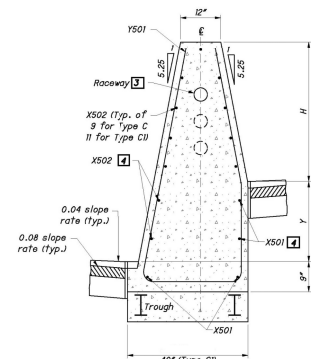
ITEM 622 - CONCRETE BARRIER, TYPE D



ITEM 622 - CONCRETE BARRIER, TYPE D, DITCH DETAIL



PAVEMENT "STEP" DETAIL WITH GUARDRAIL



ITEM 611 - INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN, DETAIL

Y DIMENSION FOR BU-28B MEDIAN INLESTS = 0.12'

TYPICAL SECTIONS - DETAILS

2021-11-18 - BU 28B - RFC

SUM-76 77 / 8 / 77 / 6 / 4 / 9.74 / 0.00

FOR LEGEND, SEE SHEET 2

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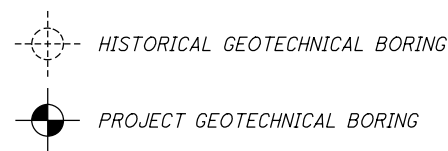
PLAN ABBREVIATIONS

THE FOLLOWING LIST OF ABBREVIATION DEFINITIONS IS USED FOR THIS PLAN SET:

Table with 2 columns: ABBREVIATION and DESCRIPTION. Lists various construction terms like ATG, AA, APP, ASPH., AVE., etc.

PLAN ABBREVIATIONS (CONT'D)

Table with 2 columns: ABBREVIATION and DESCRIPTION. Lists terms like PGL, P, PROP., QL, RAD., REF., etc.



WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

UTILITIES

THE UNDERGROUND UTILITIES ON THIS PLAN HAVE BEEN LOCATED BY USING A SUBSURFACE UTILITY ENGINEERING COMPANY [SUE]. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD MARKINGS AND WHAT THE PLAN INDICATES, PLEASE CONTACT MATTHEW STEELE (PHONE: 330-786-4832), DISTRICT UTILITY COORDINATOR, PRIOR TO ANY SUBSURFACE WORK BEING INITIATED. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

UTILITIES (CONTINUED)

LISTED BELOW ARE THE UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS

CARGILL SALT CITY OF AKRON BUREAU OF WATER SUPPLY (INSPECTION) ATTN: KERRY MORGAN CELL (330) 780-6610 2065 MANCHESTER RD. AKRON, OH 43082 ATTN: TONY PUGLIA OFFICE (330) 375-2549 1460 TRIPLETT BLVD. AKRON, OH 44306

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ISSUE RECORD - BU-28B ROADWAY

Table with 3 columns: NO., DATE, DESCRIPTION. Contains one row for ITEM 609.

ITEM 609 - CURB, TYPE 4-C, AS PER PLAN

ALL REQUIREMENTS ODOT STANDARD ROADWAY CONSTRUCTION DRAWING BP 5.1 SHALL APPLY WITH THE FOLLOWING MODIFICATIONS: THE DEPTH OF THE CURB OR COMBINATION CURB AND GUTTER SHALL BE ADJUSTED SUCH THAT THE BOTTOM OF CURB RESTS DIRECTLY ON THE TOP OF THE AGGREGATE BASE LAYER. SEE TYPICAL SECTIONS FOR MORE INFORMATION.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E, MASH

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

UNDERDRAIN CONNECTIONS AT SAWCUTS

AT THE START, END OR WIDENING OF ALL FULL-DEPTH PAVEMENT SECTIONS SHOWN IN THE PLANS, CONTRACTOR SHALL CONNECT PROPOSED UNDERDRAINS TO EXISTING AND ENSURE POSITIVE DRAINAGE IS MAINTAINED.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

EXISTING UTILITIES AND SUBGRADE TREATMENT

THE CONTRACTOR SHALL VERIFY THE DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AND SEWERS WITHIN THE PROPOSED PAVEMENT LIMITS TO ENSURE NO UTILITIES OR SEWERS ARE IMPACTED OR DAMAGED DURING CEMENT STABILIZATION AND/OR UNDERCUT ACTIVITIES. THE CONTRACTOR SHALL LOCATE AND TAKE CARE TO FLAG ALL EXISTING UTILITIES WITHIN THE PROPOSED PAVEMENT LIMITS PRIOR TO PERFORMING CEMENT STABILIZATION OR UNDERCUT, AS DESIGNATED IN THE PLANS. SHOULD THE CONTRACTOR ENCOUNTER A POTENTIAL UTILITY CONFLICT, THE CONTRACTOR SHALL NOTIFY PROJECT ENGINEER AND STOP CEMENT STABILIZATION/UNDERCUT ACTIVITIES AT THE CONFLICT LOCATION IMMEDIATELY.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSSSECTIONS, EVEN THOUGH OTHERWISE SHOWN.

ITEM 511 WINGWALLS OR HEADWALLS FOR 611 ITEMS

FOR ITEMS 706.05, 706.051, 706.052 AND 706.053 WITH A CAST-IN-PLACE WINGWALL OR HEADWALL A PRECAST ALTERNATIVE MAY BE FURNISHED PER 602.03. THE PRECAST ALTERNATIVE WILL MEET THE CAST-IN-PLACE STRUCTURAL DESIGN LOADINGS, DESIGN HEIGHT, AND DESIGN LENGTH DIMENSIONS.

FULL COMPENSATION FOR THE PRECAST WINGWALL OR HEADWALL IS THE NUMBER OF CUBIC YARDS OF ITEM 511 AND POUNDS OF ITEM 509 FOR THE CORRESPONDING CAST-IN-PLACE STRUCTURE.

CALCULATED JTB CHECKED MCK

GENERAL NOTES

2021-11-18 - BU 28B - RFC

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





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**ITEM 899 - CURED-IN-PLACE PIPE LINER (48')**

INSTALL A CONTINUOUS (JOINT-LESS) CURED-IN-PLACE PIPELINER SYSTEM TO LINE THE INTERIOR OF THE HOST PIPE TO BE REHABILITATED. THE LINER PIPE MUST BE ABLE TO MOLD ITSELF OR FIT TIGHTLY TO THE SHAPE OF THE EXISTING PIPE. THE LINER MUST PROVIDE FOR COMPLETE STRUCTURAL INTEGRITY, INDEPENDENT OF THE LOAD BEARING CAPACITY OF THE EXISTING HOST PIPE. THE PIPELINER MUST BE CAPABLE OF CONFORMING TO THE PIPELINE BENDS IN THE HOST PIPE WITHOUT SPLITTING, RUPTURING, OR WRINKLING OF THE PIPE LINER MATERIAL. THE LINING MUST PROVIDE A FLOW CAPACITY EQUAL TO, OR GREATER THAN, THAT OF THE HOST PIPE PRIOR TO REHABILITATION. CURED-IN-PLACE PIPELINERS SHALL CONFORM TO ASTM D5813 AND BE DESIGNED ACCORDING TO ASTM F1216 AS A FULLY DETERIORATED GRAVITY PIPE. REFER TO SUPPLEMENTAL SPECIFICATION 833, SPECIFICALLY SECTION 833.04 ITEM 1. AND TABLES 833.01 AND 833.03 FOR THE DESIGN PARAMETERS.

INSTALLATION SHALL BE PER ASTM F 1216, ASTM F 1743, ASTM 2019 AND PER THE MANUFACTURER'S RECOMMENDATIONS. ALL PROCESS WATER AND CONDENSATE FROM STEAM USED IN THE INSTALLATION AND CURING PROCESS SHALL BE MANAGED PER 107.19 AS A LIQUID WASTE.

INSPECT THE EXISTING HOST PIPE USING EXPERIENCED PERSONNEL TRAINED IN LOCATING BREAKS, OBSTACLES, AND SERVICE CONNECTIONS BY CLOSED-CIRCUIT TELEVISION OR MAN ENTRY BEFORE AND AFTER INSTALLATION OF THE PIPELINER. CLEAN, REMOVE DEBRIS, AND REPAIR CONDUIT WALLS AND JOINTS PRIOR TO INSTALLING THE PIPELINER. RESTORE ACTIVE SERVICE CONNECTIONS AFTER INSTALLATION OF THE PIPELINER. PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 611, CONDUIT MISC.; CURED-IN-PLACE PIPE LINER.

**ITEM 611 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF CMS 611.10.D FOR MANHOLES, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (A MINIMUM OF 1'-0" OUTSIDE OF THE CASTING) AND ADJUST THE CASTING TO GRADE (ACCORDING TO THE TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN PLACED.

CMS 499 CLASS QCMS CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING, AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

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ISSUE RECORD - BU-28A ROADWAY		
NO.	DATE	DESCRIPTION

GENERAL NOTES	2021-11-18 - BU 28B - RFC	SUM - 76 / 8.24 / 9.74 / 0.00	/ 8 / 77 / 76 / 9.74 / 0.00	10 86
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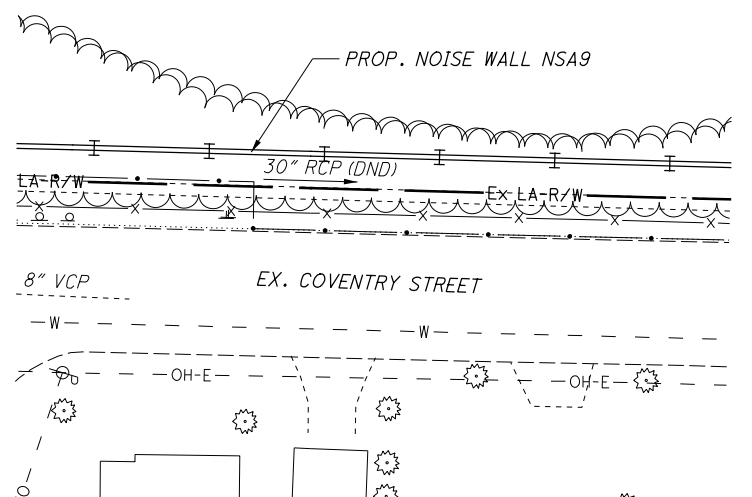
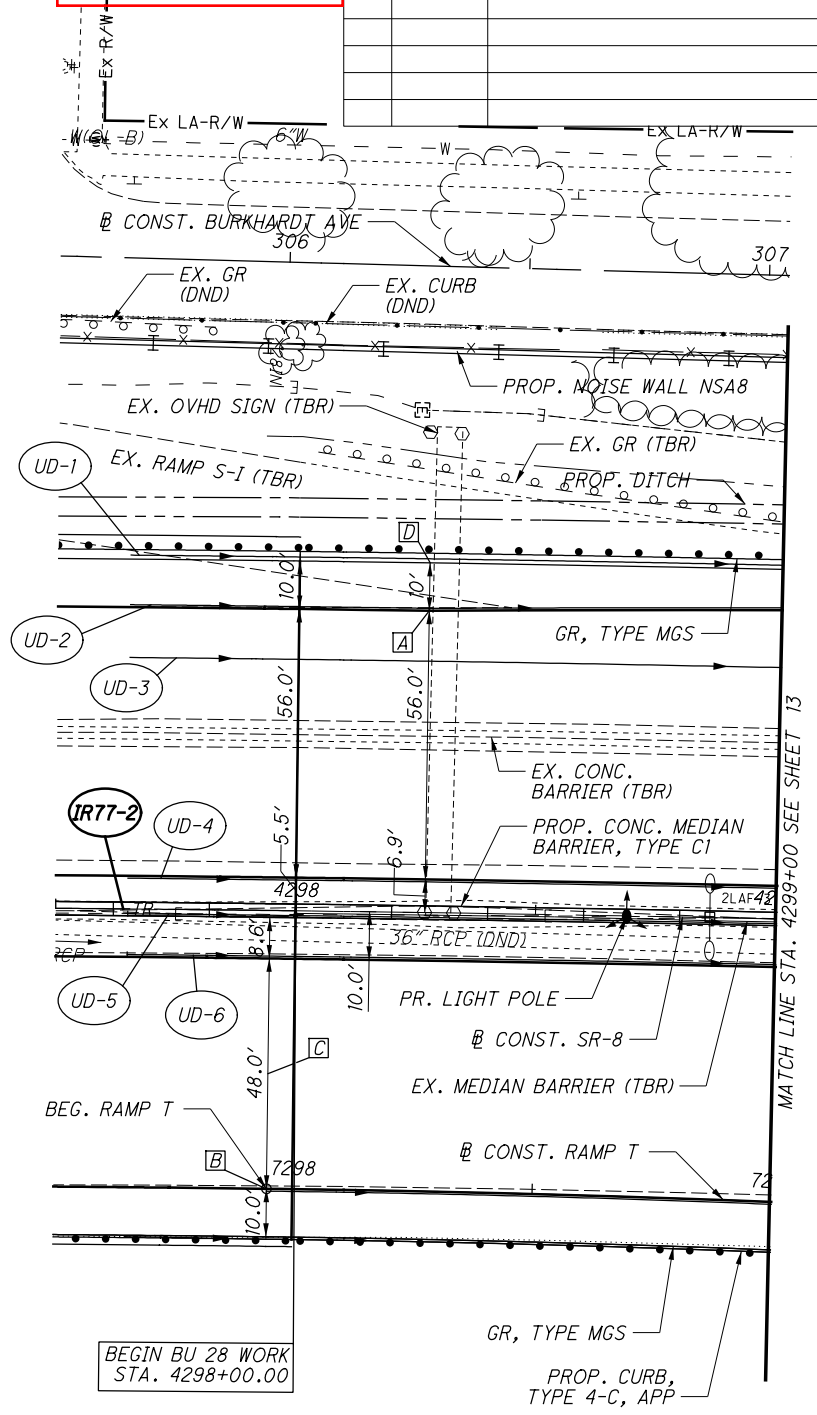
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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

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 HORIZONTAL  
 SCALE IN FEET

N



(IR77-2)  
 PI Sta. 4302+70.00  
 $\Delta = 8^\circ 03' 13''$  (RT)  
 $DC = 0^\circ 30' 00''$   
 $R = 11,459.16'$   
 $T = 806.69'$   
 $L = 1,610.73'$   
 $E = 28.36'$   
 $e_{MAX} = NC$   
 $PC$  Sta. 4294+63.37  
 $PT$  Sta. 4310+74.10  
 $v_{DES} = 60$  MPH

- [A] BEG. RAMP N LANE TAPER  
STA. 4298+26.93, 62.90' LT
- [B] @ CONST. IR-77 STA. 4297+94.62,  
58.00' RT = @ CONST. RAMP T  
STA. 7297+94.62
- [C] BEG. RAMP T GORE  
STA. 4297+94.62, 34.00' RT
- [D] BEG. SHOULDER TAPER  
STA. 4298+26.93, 72.90' LT

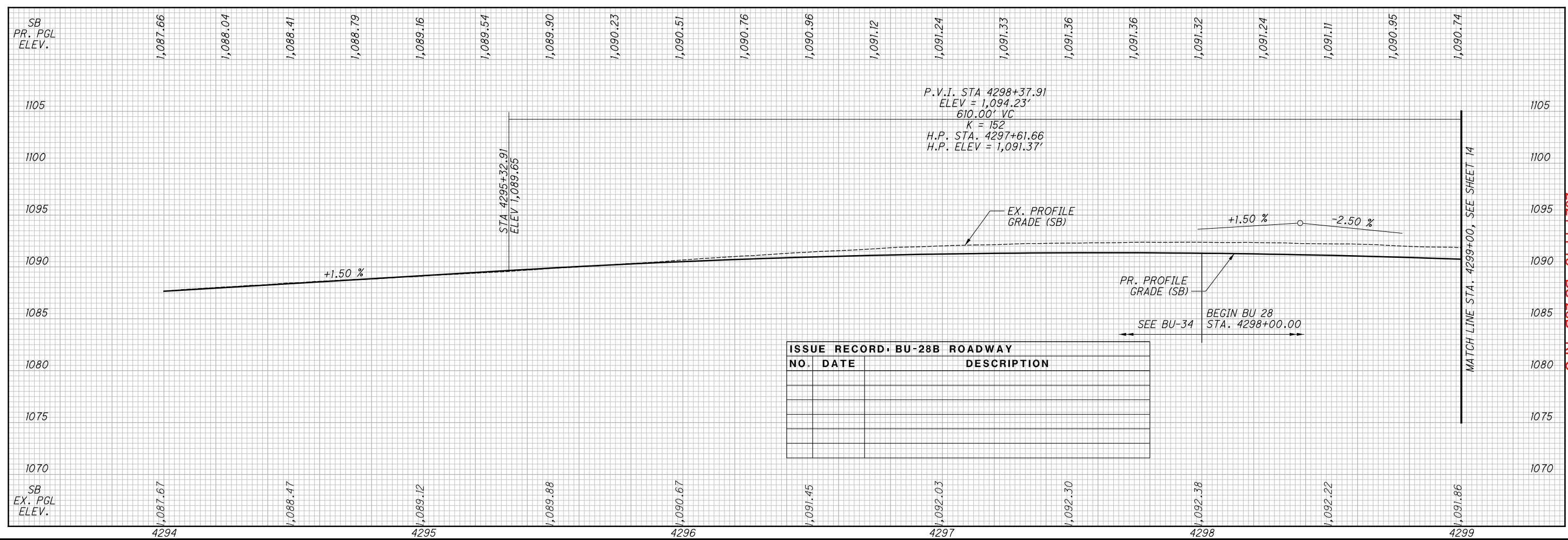
2021-11-18 - BU 28B - RFC

PLAN - SR-8  
 STA. 4298+00.00 TO STA. 4299+00.00

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

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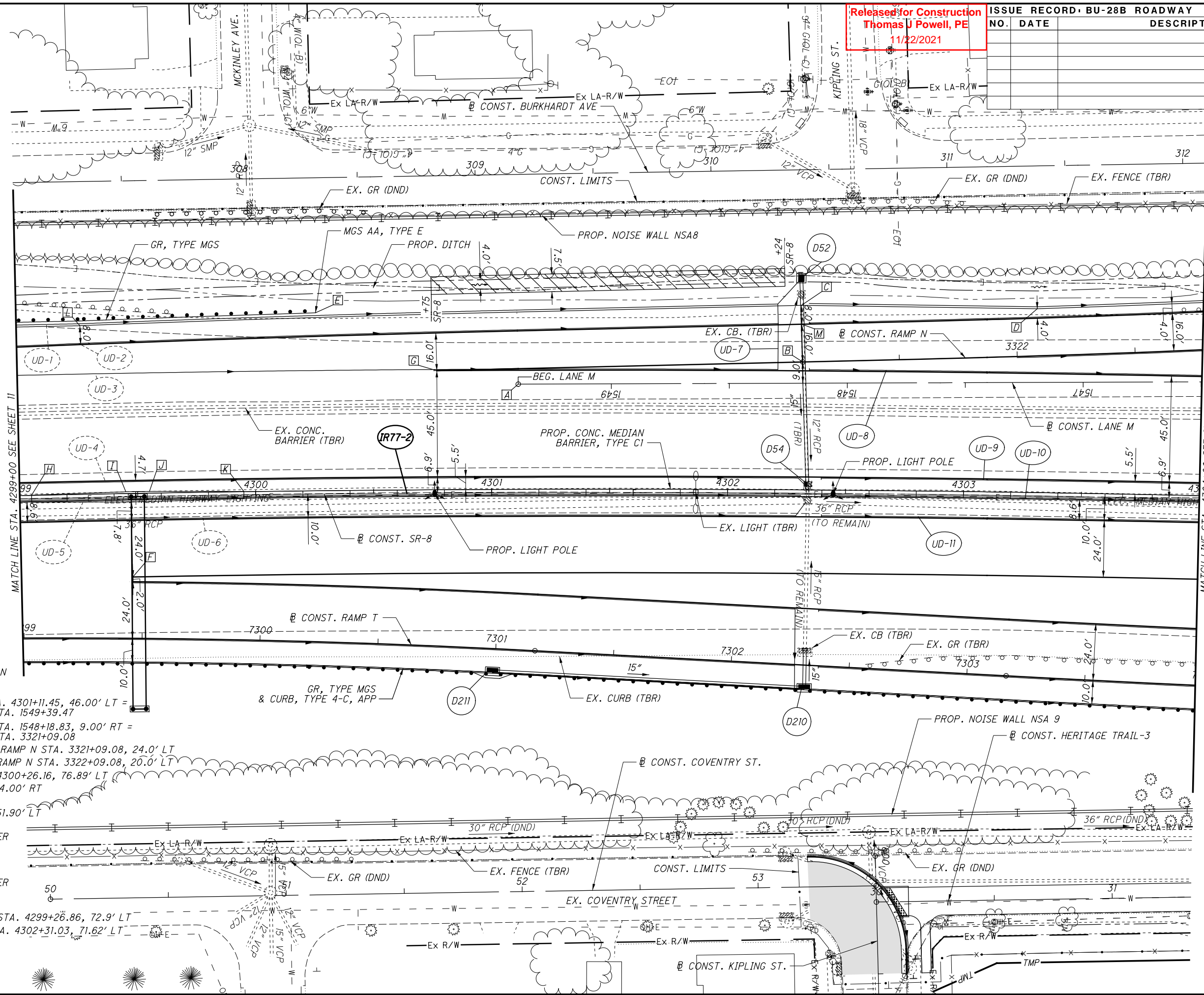
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ISSUE RECORD - BU-28B ROADWAY		
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CHECKED  
EAK

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HORIZONTAL  
SCALE IN FEET

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**LEGEND**

SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS

ITEM 670  
DITCH  
EROSION  
PROTECTION

- A CONST. IR-77 STA. 4301+11.45, 46.00' LT =  
CONST. LANE M STA. 1549+39.47
- B CONST. LANE M STA. 1548+18.83, 9.00' RT =  
CONST. RAMP N STA. 3321+09.08
- C BEG. SHLDR. TAPER RAMP N STA. 3321+09.08, 24.0' LT
- D END SHLDR. TAPER RAMP N STA. 3322+09.08, 20.0' LT
- E END MGS RUN STA. 4300+26.16, 76.89' LT
- F STA. 4299+47.28, 34.00' RT
- G BEG. RAMP N GORE STA. 4300+77.09, 51.90' LT
- H +05.00, 1.4' LT  
BEGIN BARRIER TAPER
- I +45.00, 2.2' LT  
END BARRIER TAPER
- J +55.00, 2.2' LT  
BEGIN BARRIER TAPER
- K +95.00, 1.4' LT  
END BARRIER TAPER
- L END SHLDR. TAPER STA. 4299+26.86, 72.9' LT
- M END LANE TAPER STA. 4302+31.03, 71.62' LT

MATCH LINE STA. 4299+00 SEE SHEET 11

MATCH LINE STA. 4304+00 SEE SHEET 15

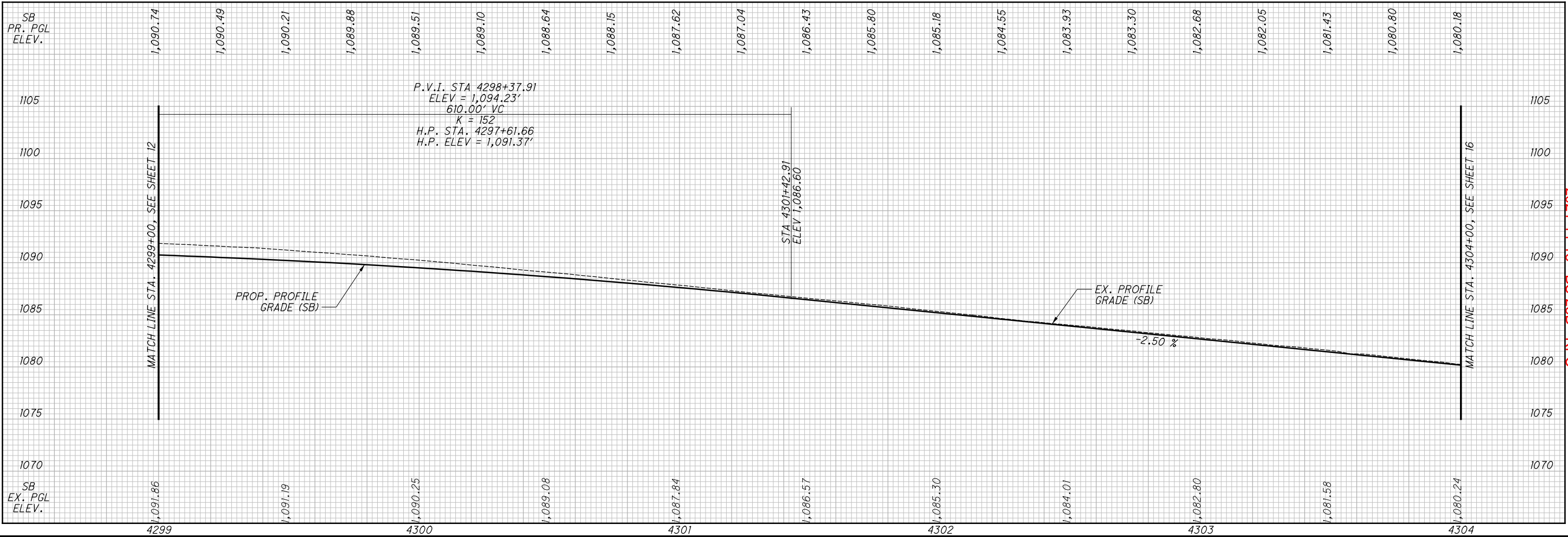
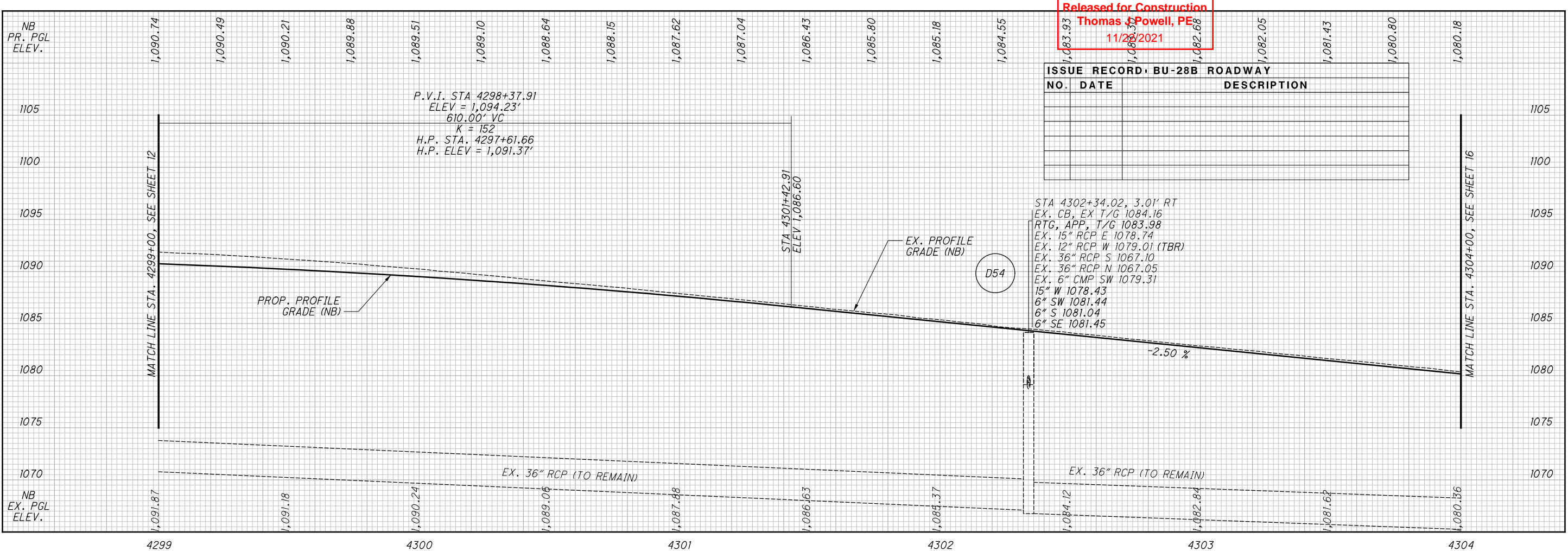
IR77-2

PI Sta. 4302+70.06  
 $\Delta = 8^\circ 03' 13''$  (RT)  
 $DC = 0^\circ 30' 00''$   
 $R = 11,459.16'$   
 $T = 806.69'$   
 $L = 1,610.73'$   
 $E = 28.36'$   
 $eMAX = NC$   
 $PC Sta. 4294+63.37$   
 $PT Sta. 4310+74.10$   
 $vDES = 60 MPH$

PLAN - SR-8  
STA. 4299+00.00 TO STA. 4304+00.00

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**ISSUE RECORD - BU-28B ROADWAY**

NO.	DATE	DESCRIPTION

CALCULATED  
 AA  
 CHECKED  
 EAK

PROFILE - SR-8  
 STA. 4299+00 TO STA. 4304+00

2021-11-18 - BU 28B - RFC

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

14  
 86

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ISSUE RECORD BU-28B ROADWAY

NO.	DATE	DESCRIPTION



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SCALE IN FEET

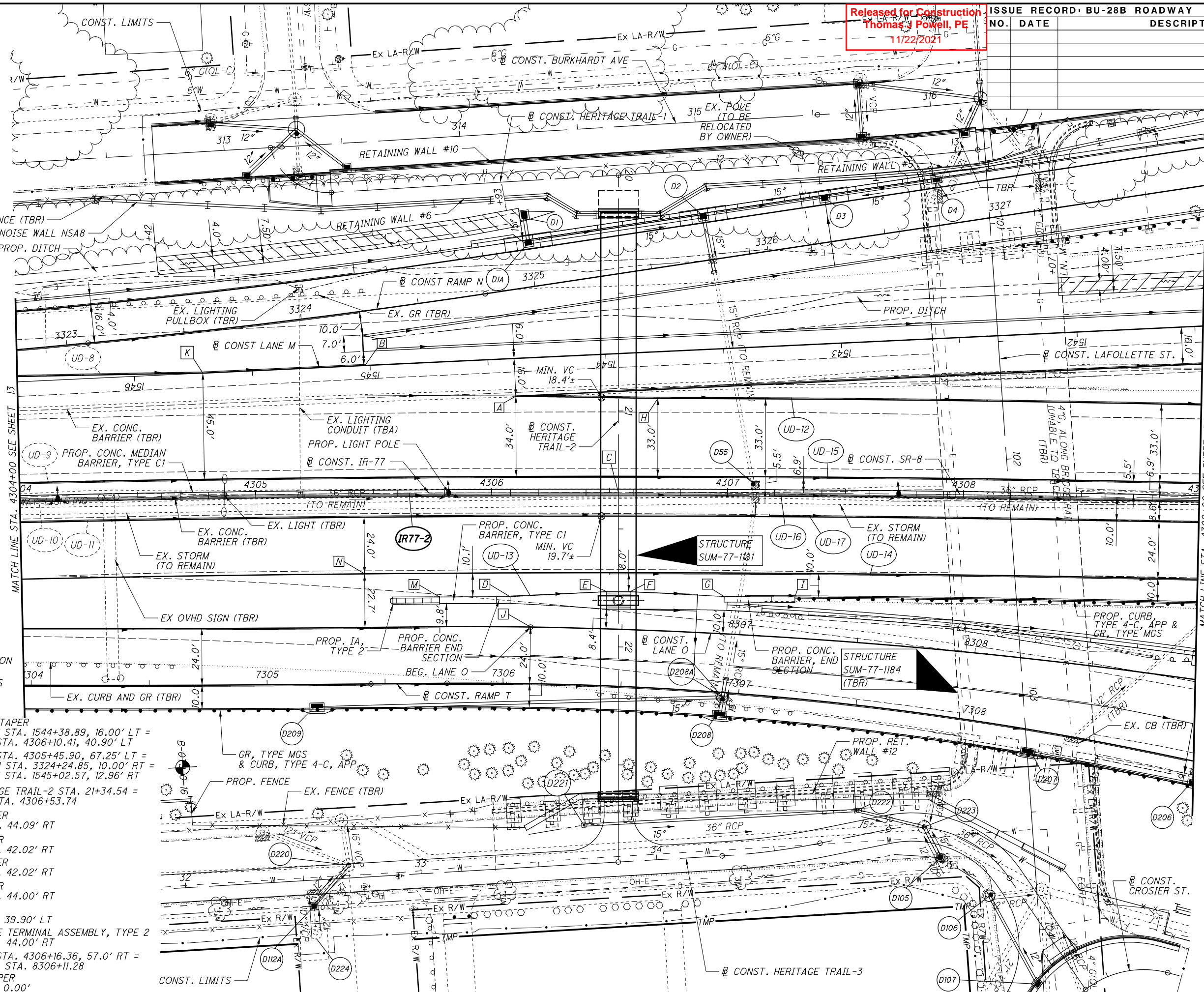
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CHECKED  
EAK

PLAN - SR-8  
STA. 4304+00.00 TO STA. 4309+00.00

2021-11-18 - BU 288 - RFC

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

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86



**LEGEND**

SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS

ITEM 670  
DITCH  
EROSION  
PROTECTION

UNLESS OTHERWISE NOTED ALL UTILITIES AND DRAINAGE ARE TO REMAIN

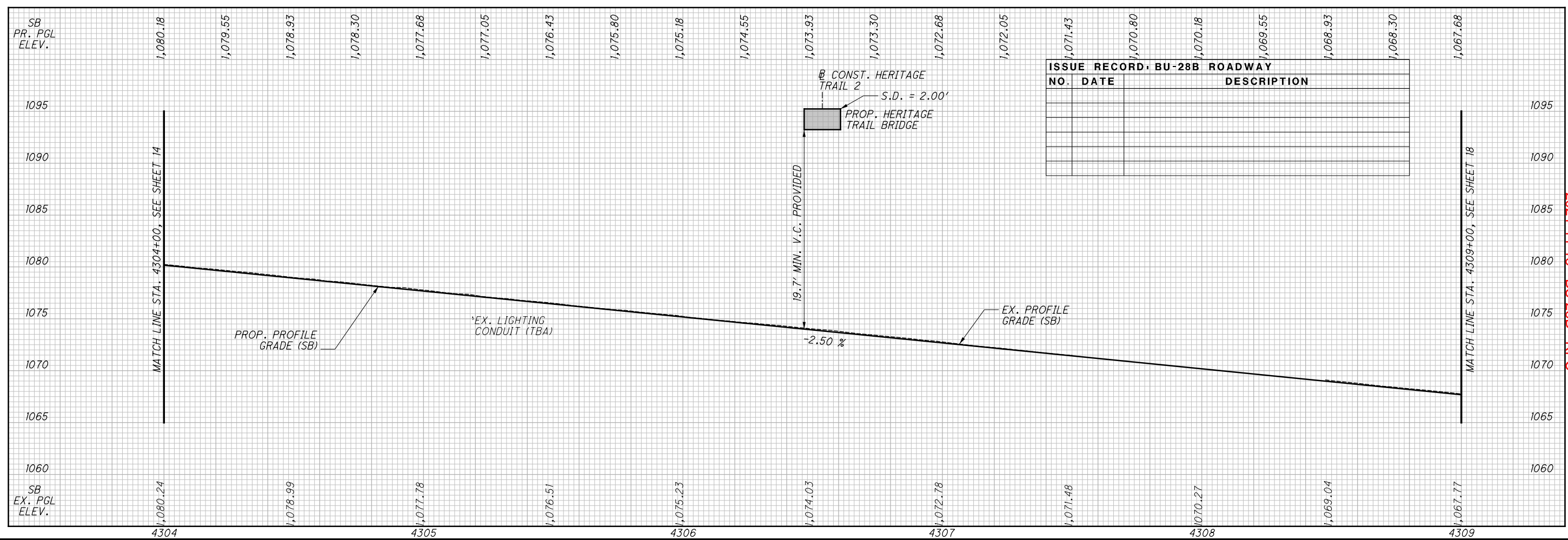
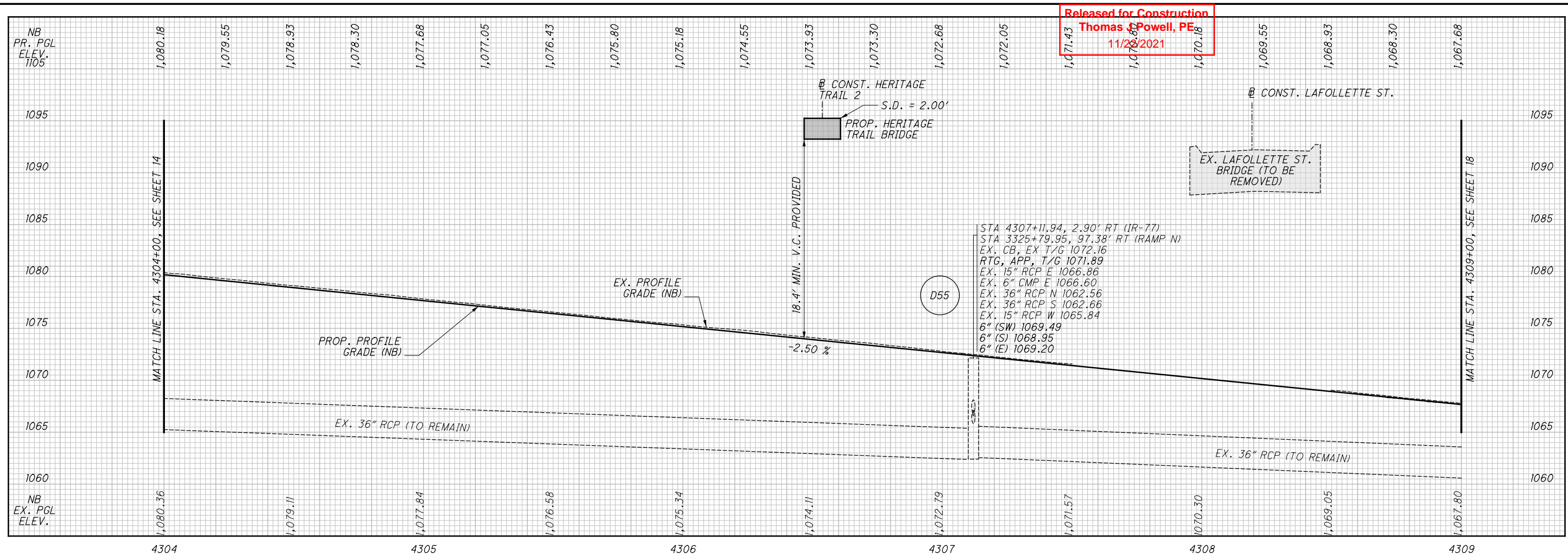
- A BEG. IR-77 LANE TAPER  
B CONST. LANE M STA. 1544+38.89, 16.00' LT =  
C CONST. IR-77 STA. 4306+10.41, 40.90' LT
- B CONST. IR-77 STA. 4305+45.90, 67.25' LT =  
C CONST. RAMP N STA. 3324+24.85, 10.00' RT =  
D CONST. LANE M STA. 1545+02.57, 12.96' RT
- C CONST. HERITAGE TRAIL-2 STA. 21+34.54 =  
D CONST. SR-8 STA. 4306+53.74
- D BEG. SHLDR. TAPER  
E STA. 4306+07.68, 44.09' RT
- E END SHLDR. TAPER  
F STA. 4306+48.73, 42.02' RT
- F BEG. SHLDR. TAPER  
G STA. 4306+58.76, 42.02' RT
- G END SHLDR. TAPER  
H STA. 4306+98.76, 44.00' RT
- H END LANE TAPER  
I STA. 4306+70.41, 39.90' LT
- I BEGIN MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2  
J STA. 4307+28.88, 44.00' RT
- J CONST. IR-77 STA. 4306+16.36, 57.0' RT =  
K CONST. LANE O STA. 8306+11.28
- K BEGIN LANE M TAPER  
L STA. 1545+70.97, 0.00'

- M BEGIN BARRIER  
N STA. 4305+77.68, 44.09' RT
- N END GORE TAPER  
O STA. 4305+48.11, 34.00' RT

IR77-2  
PI Sta. 4302+70.00  
 $\Delta = 8^{\circ} 03' 13''$  (RT)  
DC =  $0^{\circ} 30' 00''$   
R = 11,459.16'  
T = 806.69'  
L = 1,610.73'  
eMAX = NC  
PC Sta. 4294+63.37  
PT Sta. 4310+74.10  
vDES = 60 MPH

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STA 4307+11.94, 2.90' RT (IR-77)  
 STA 3325+79.95, 97.38' RT (RAMP N)  
 EX. CB, EX T/G 1072.16  
 RTG, APP, T/G 1071.89  
 EX. 15" RCP E 1066.86  
 EX. 6" CMP E 1066.60  
 EX. 36" RCP N 1062.56  
 EX. 36" RCP S 1062.66  
 EX. 15" RCP W 1065.84  
 6" (SW) 1069.49  
 6" (S) 1068.95  
 6" (E) 1069.20

ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



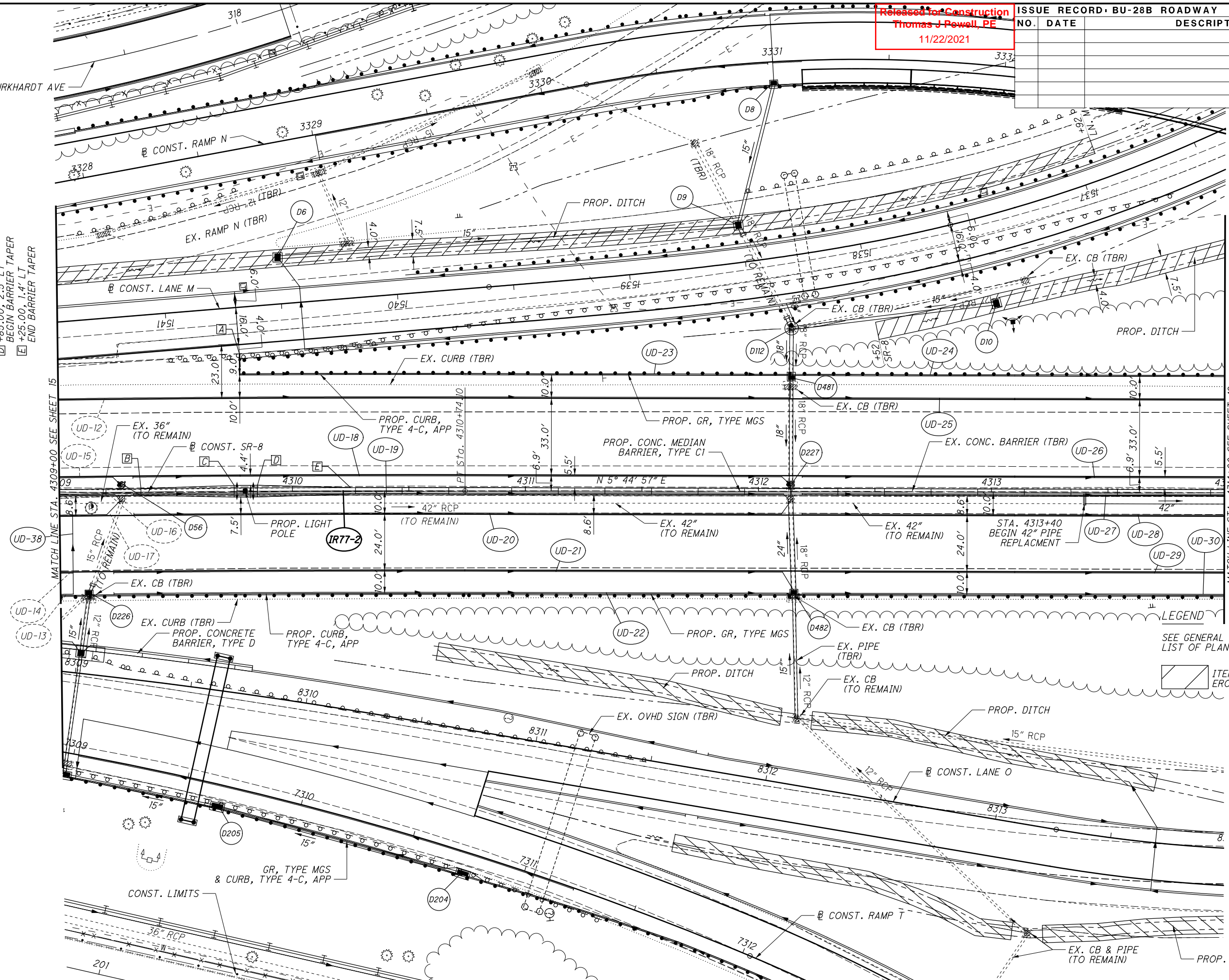
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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

CALCULATED AA  
 CHECKED EAK  
 HORIZONTAL SCALE IN FEET  
 0 20 40

- CONST. BURKHARDT AVE
- CONST. RAMP N
- CONST. LANE M
- CONST. SR-8
- CONST. LANE O
- CONST. RAMP T
- CONST. LIMITS



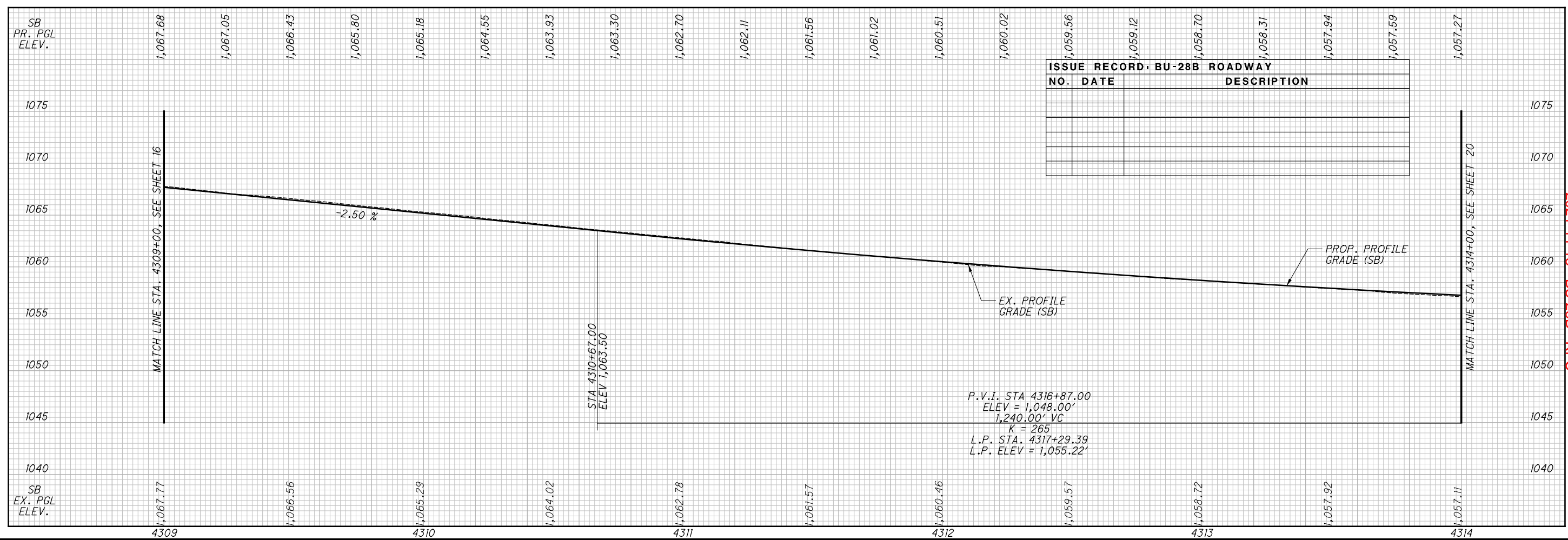
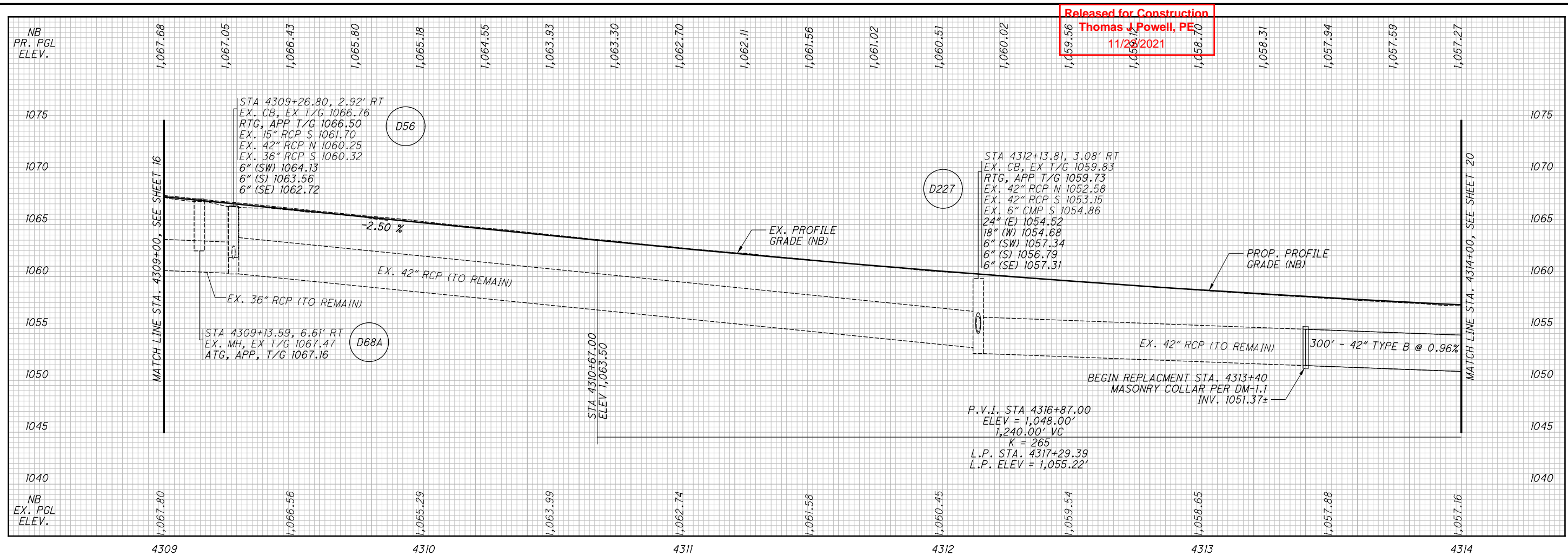
LEGEND  
 SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS  
 ITEM 670 DITCH EROSION PROTECTION

**IR77-2**  
 PI Sta. 4302+70.0  
 $\Delta = 8^\circ 03' 13''$  (RT)  
 DC = 0° 30' 00"  
 R = 11,459.16'  
 T = 806.69'  
 L = 1,610.73'  
 E = 28.36'  
 eMAX = NC  
 PC Sta. 4294+63.37  
 PT Sta. 4310+74.10  
 vDES = 60 MPH

PLAN - SR-8  
 STA. 4309+00.00 TO STA. 4314+00.00

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

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ISSUE RECORD - BU-28B ROADWAY

NO.	DATE	DESCRIPTION



PLAN - SR-8  
STA. 4314+00.00 TO STA. 4319+00.00

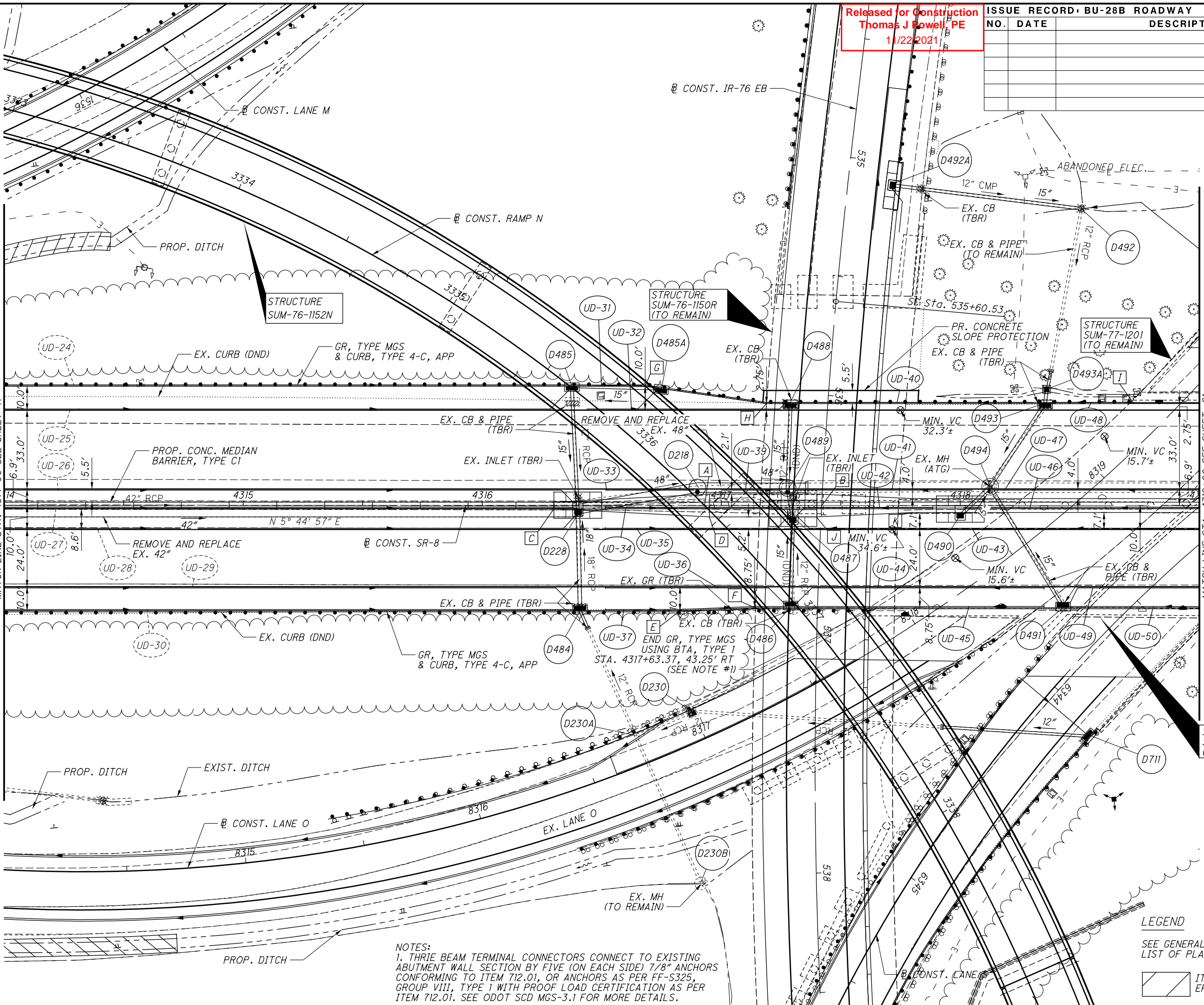
2021-11-18 - BU 28B - RFC

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

- A CONST. SR-8 STA. 4316+93.02 =
- B CONST. RAMP N STA. 3336+36.97
- C CONST. I-76 EB STA. 536+46.14 =
- D CONST. SR-8 STA. 4317+42.00
- E +30.00, 1.41' RT BEGIN BARRIER TRANSITION
- F +13.98, 42.75' RT END SHOULDER TRANSITION
- G +68.15, 49.9' LT BEGIN CURB TAPER
- H +18.90, 42.65' LT END CURB TAPER
- I +72.56, 42.65' LT END GR, TYPE MGS USING BTA TYPE 2, CONNECT TO EXISTING WALL PER ODOT SCD MGS-3.2
- J +40.00, 5.00' RT BEGIN BARRIER TRANSITION
- K +80.00, 2.93' RT END BARRIER TRANSITION

MATCH LINE STA. 4314+00 SEE SHEET 17

MATCH LINE STA. 4319+00 SEE SHEET 21



NOTES:  
1. THREE BEAM TERMINAL CONNECTORS CONNECT TO EXISTING ABUTMENT WALL SECTION BY FIVE (ON EACH SIDE) 7/8\"/>

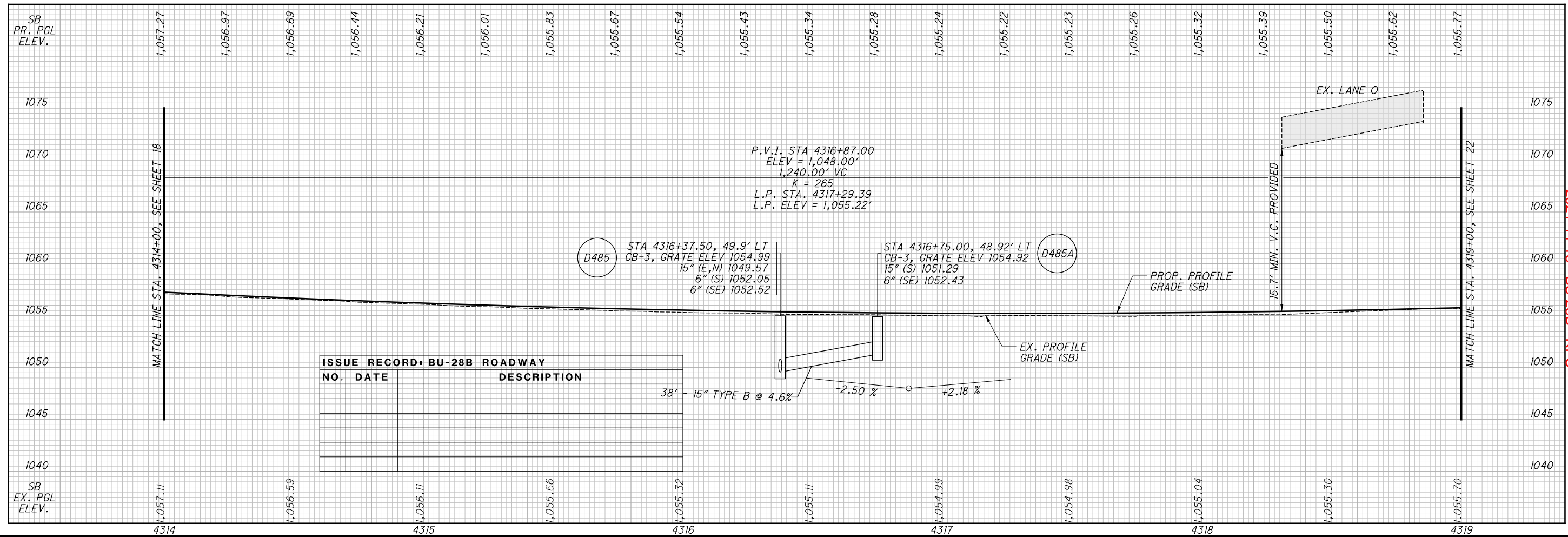
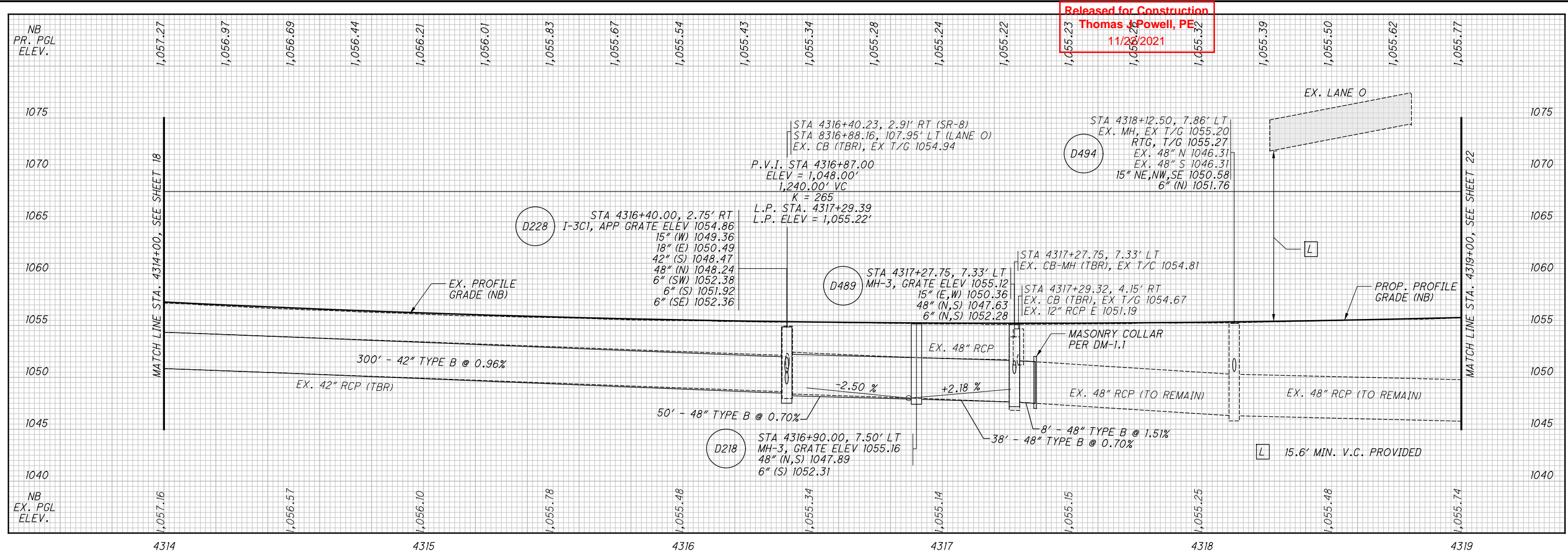
LEGEND

SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS



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ISSUE RECORD: BU-28B ROADWAY		
NO.	DATE	DESCRIPTION
		38' - 15" TYPE B @ 4.6%

CALCULATED: AA  
 CHECKED: EAK  
**PROFILE - SR 8**  
**STA. 4314+00 TO STA. 4319+00**  
 2021-11-18 - BU 28B - RFC  
**SUM-76/77/8-**  
**8.24/9.74/0.00**  
 20  
 86

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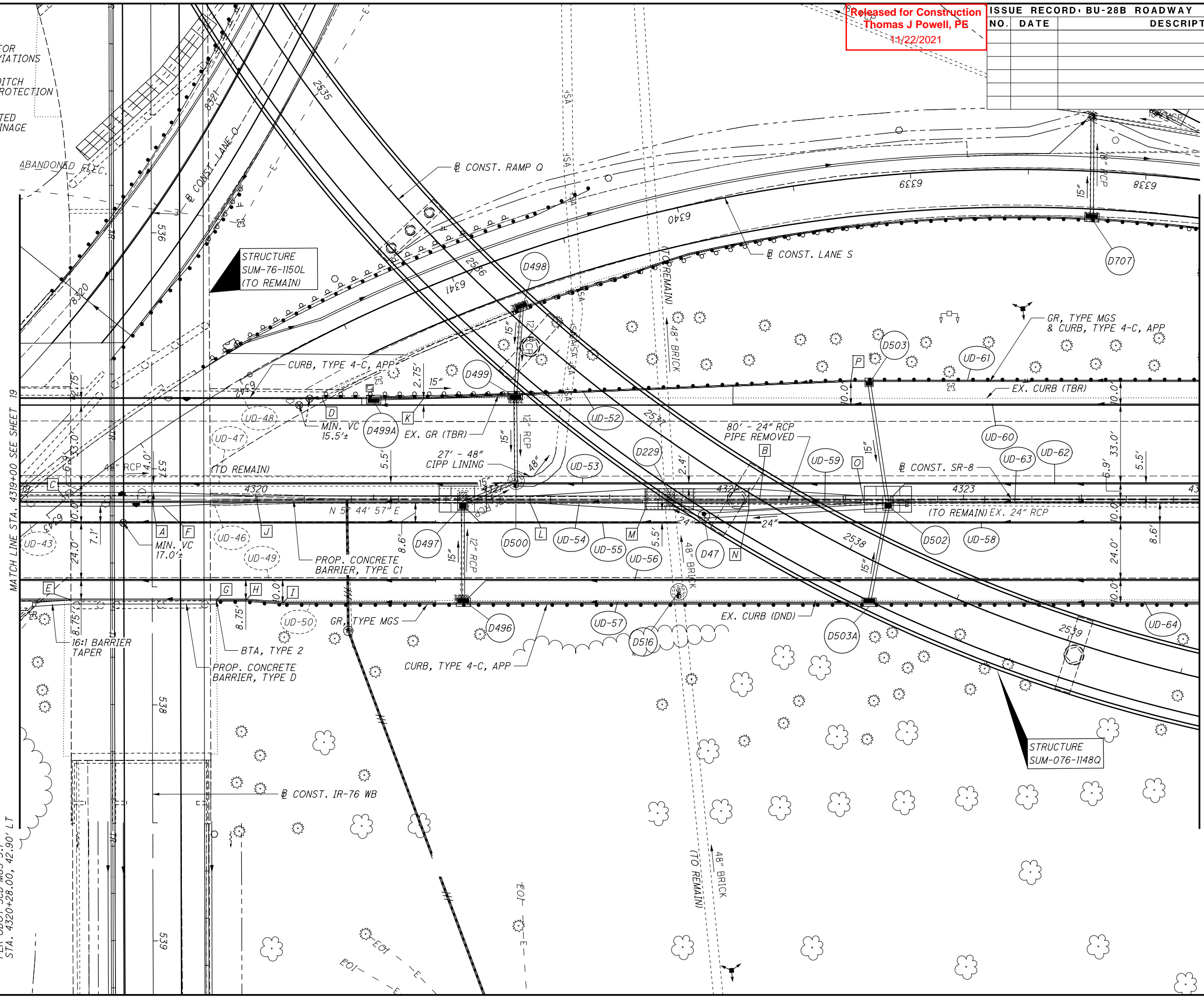
LEGEND

SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS

ITEM 670 DITCH EROSION PROTECTION

UNLESS OTHERWISE NOTED ALL UTILITIES AND DRAINAGE ARE TO REMAIN

- A CONST. SR-8 STA. 4319+56.01 =
- B CONST. IR-76 WB STA. 537+12.88
- C CONST. SR-8 STA. 4322+13.65 =
- D CONST. RAMP Q STA. 2537+56.23
- E CONST. SR-8 STA. 4319+19.57 =
- F CONST. LANE S STA. 6342+89.50
- G BEGIN GR, TYPE MGS USING BTA TYPE 1 CONNECT TO EXISTING WALL PER ODOT SCD MGS-3.1 STA. 4320+28.00, 42.90' LT
- H +95.79, 42.75' RT BEGIN SHOULDER TAPER
- I +16.25, 1.41' RT BEGIN SHOULDER TAPER
- J +11.41, 44.00' RT END SHOULDER TAPER
- K +00.57, 2.93' RT BEGIN SHOULDER TAPER
- L +83.29, 42.75' RT END SHOULDER TAPER
- M +60.57, 2.93' RT BEGIN SHOULDER TAPER
- N +09.02, 4.45' RT BEGIN SHOULDER TAPER
- O +57.75, 1.41' RT END SHOULDER TAPER
- P +52.24, 49.90' LT END SHOULDER TAPER



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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

CALCULATED 0  
AA  
CHECKED EAK

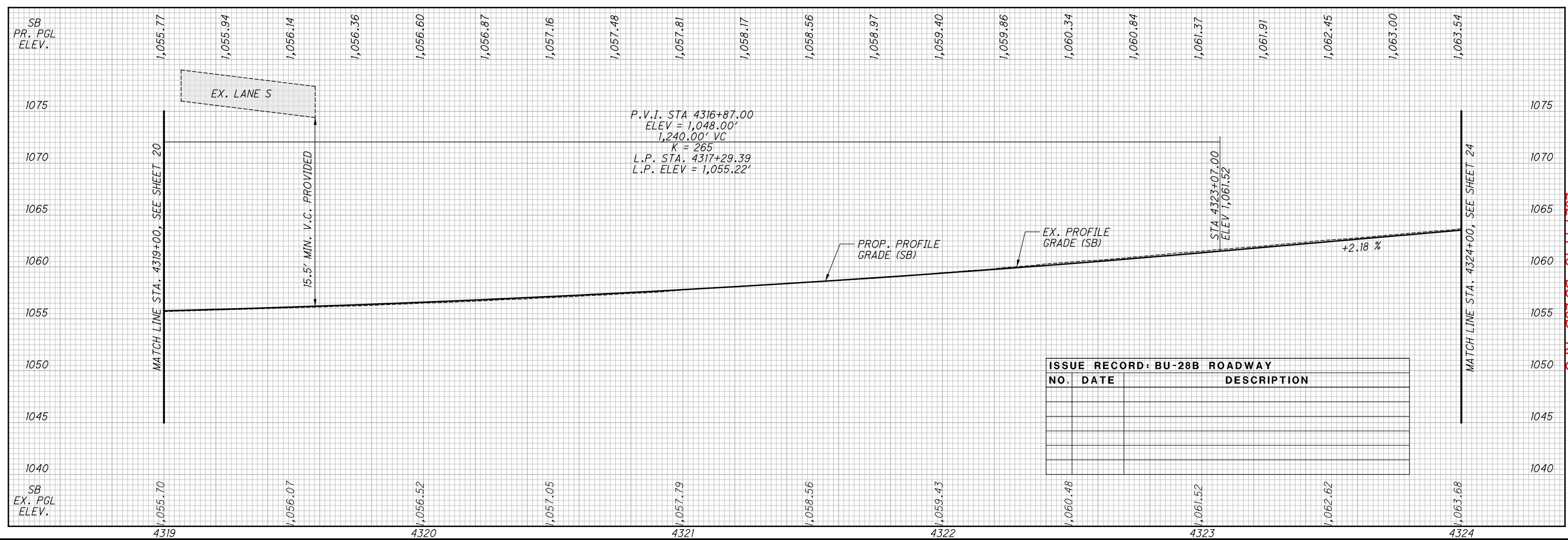
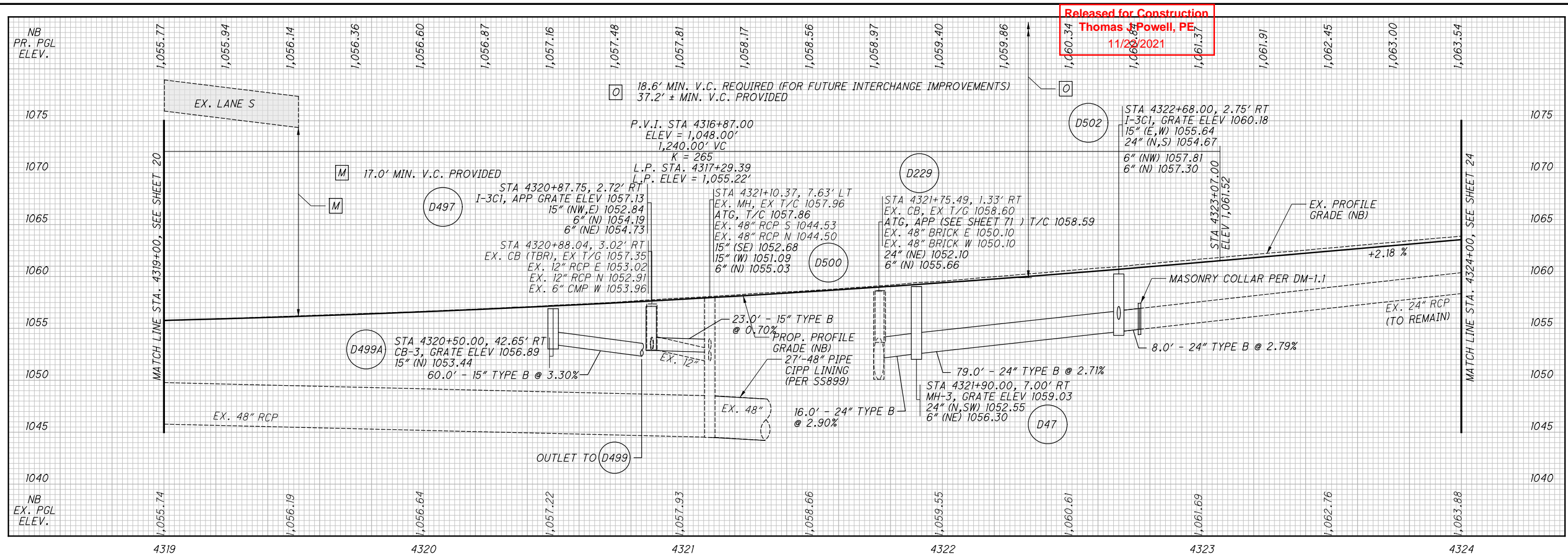
10  
HORIZONTAL  
SCALE IN FEET

PLAN - SR-8  
STA. 4319+00.00 TO STA. 4324+00.00

2021-11-18 - BU 28B - RFC

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

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ISSUE RECORD: BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

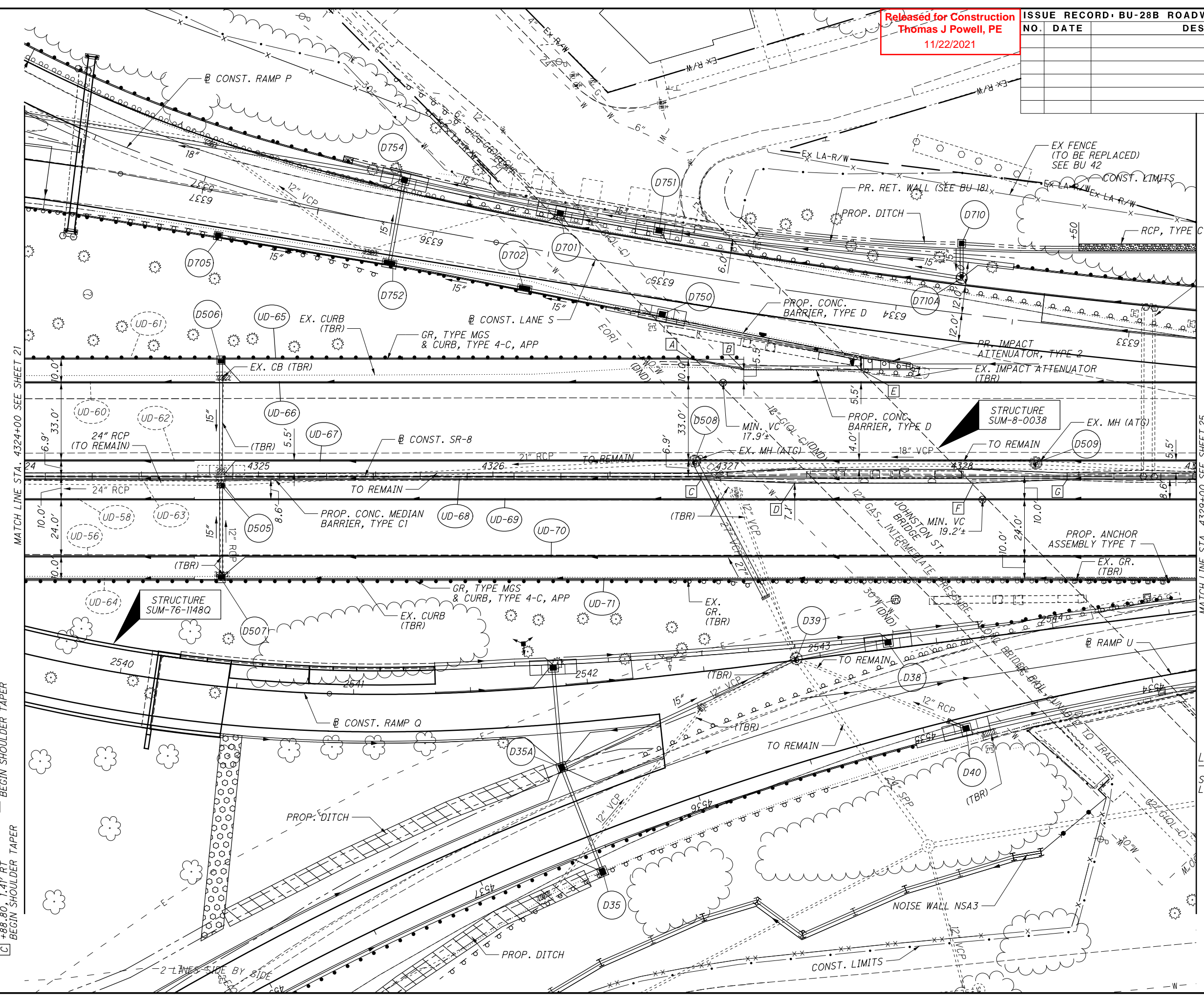
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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

CALCULATED  
AA  
CHECKED  
EAK

0 20 40  
10  
HORIZONTAL  
SCALE IN FEET



- A +84.54, 49.90' LT BEGIN SHOULDER TAPER
- B +07.04, 45.40' LT END CURB
- C +88.80, 1.41' RT BEGIN SHOULDER TAPER
- D +28.80, 2.95' RT END SHOULDER TAPER
- E +57.04, 45.40' LT END BARRIER
- F +04.98, 2.95' RT BEGIN SHOULDER TAPER
- G +44.98, 1.41' RT END SHOULDER TAPER

LEGEND  
SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATION

MATCH LINE STA. 4324+00 SEE SHEET 21

MATCH LINE STA. 4329+00 SEE SHEET 25

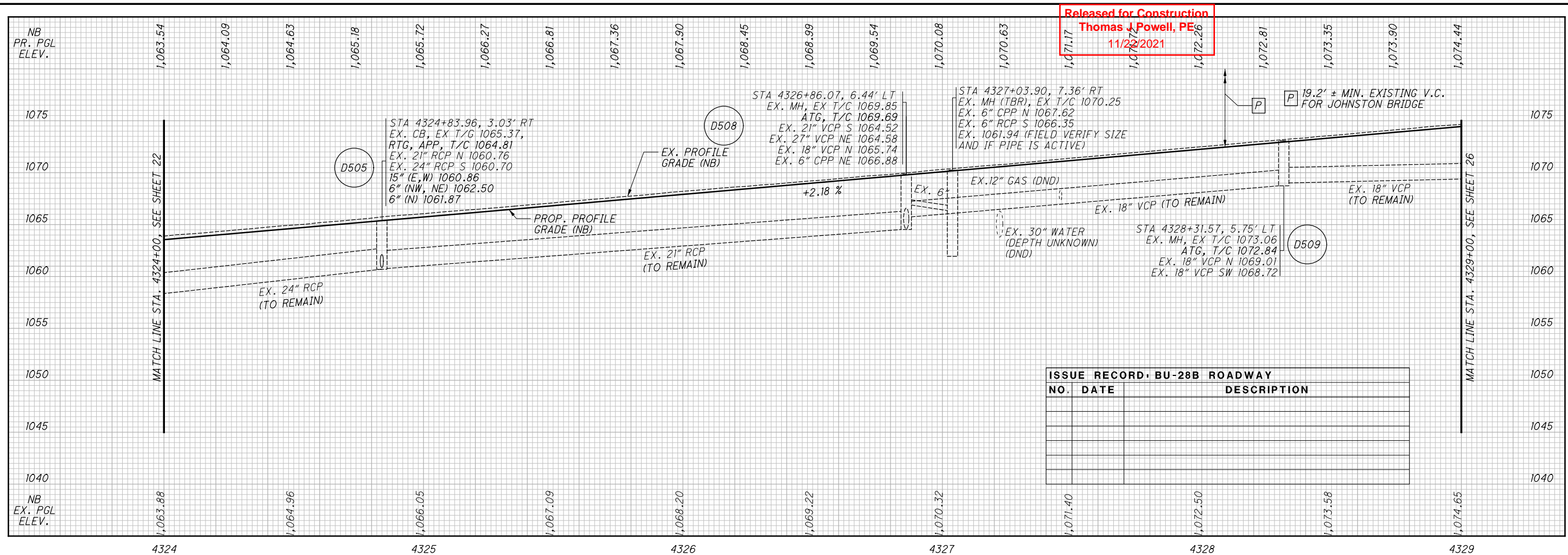
PLAN - SR-8  
STA. 4324+00 TO STA. 4329+00

2021-11-18 - BU 28B - RFC

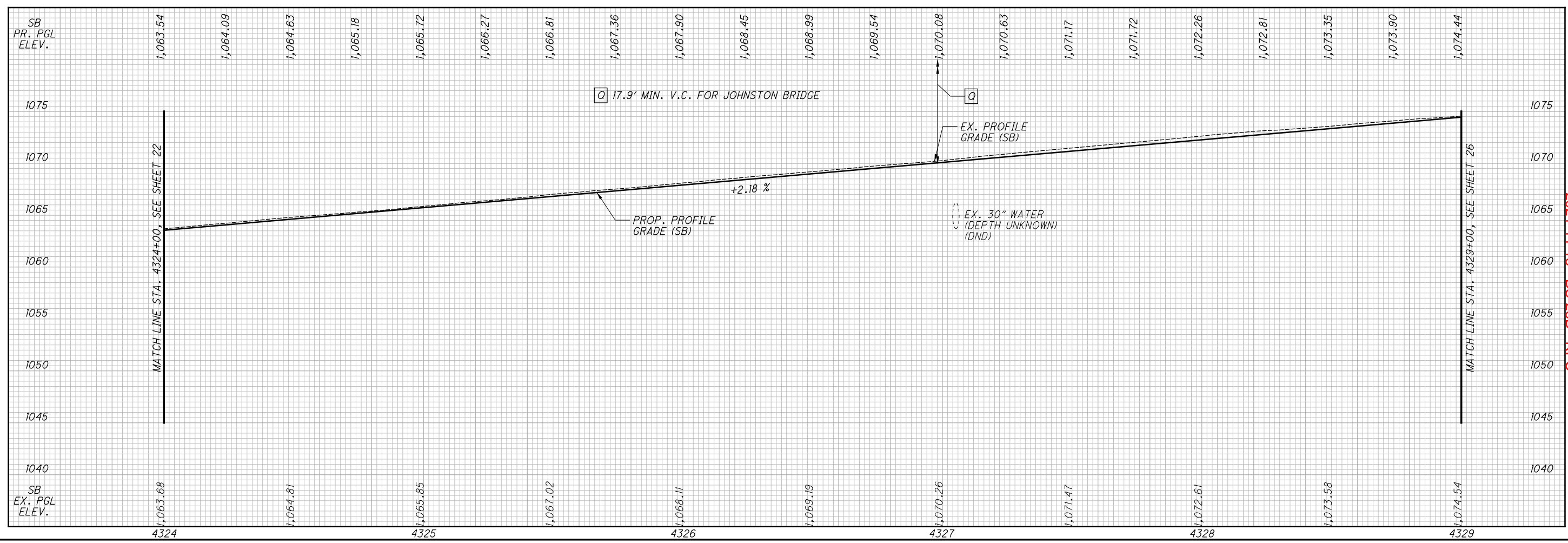
SUM-76/77/8-  
8.24/9.74/0.00

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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



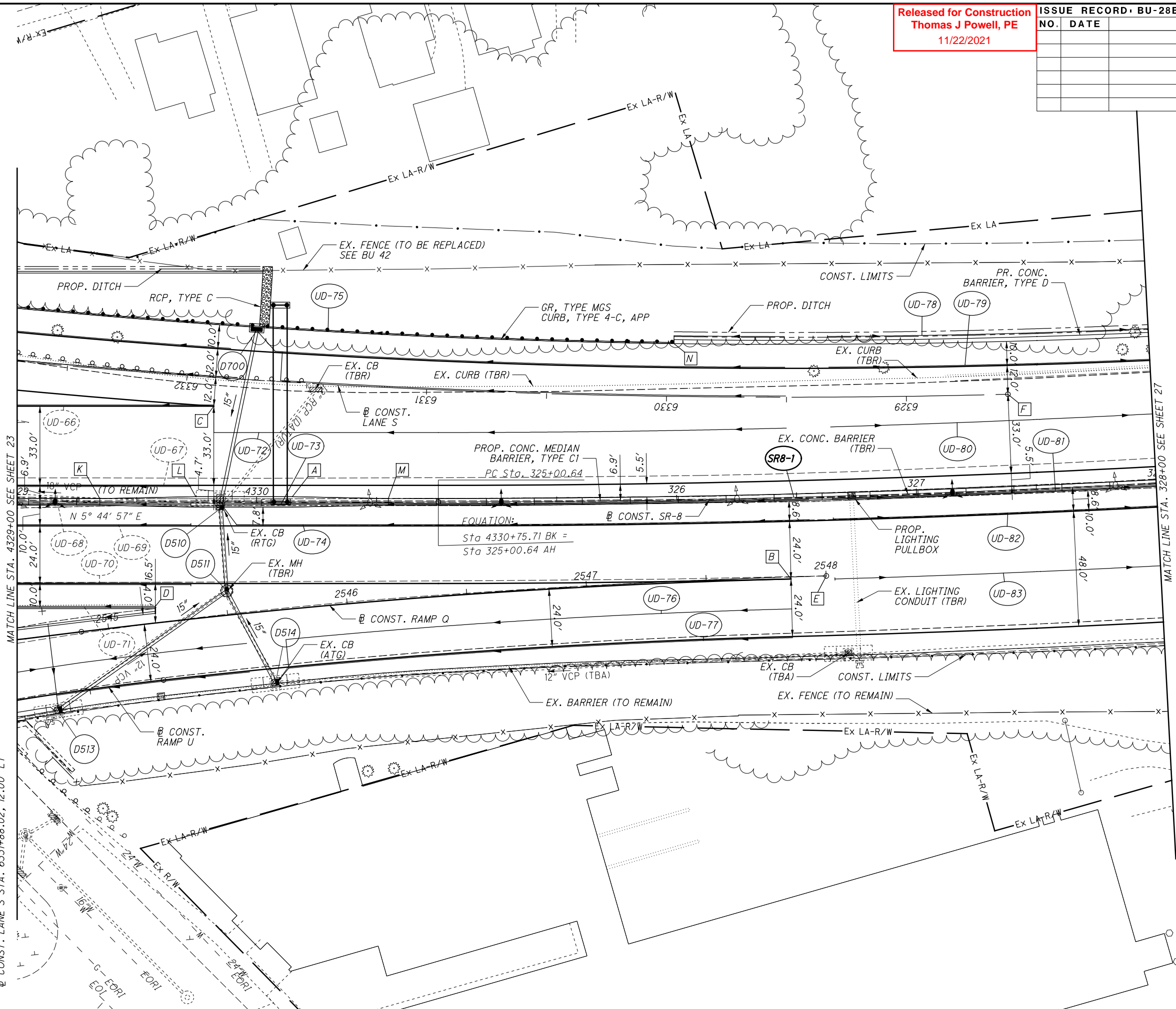
CALCULATED: AA  
 CHECKED: EAK  
**PROFILE - SR 8**  
**STA. 4324+00 TO STA. 4329+00**  
 2021-11-18 - BU 28B - RFC  
**SUM-76/77 / 8-**  
**8.24/9.74/0.00**  
 24  
 86



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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



**LEGEND**  
 SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS

**SR8-1**

PI Sta. 328+39.86  
 $\Delta = 6^\circ 46' 55''$  (LT)  
 $DC = 1^\circ 00' 00''$   
 $R = 5,729.58'$   
 $T = 339.22'$   
 $L = 677.65'$   
 $E = 10.03'$   
 $e_{MAX} = 0.0270$   
 PC Sta. 325+00.64  
 PT Sta. 331+78.29  
 $vDES = 60$  MPH

- [K] +34.63, 1.41' LT
- [L] BEGIN SHOULDER TAPER
- [M] +74.63, 2.16' LT
- [N] END SHOULDER TAPER
- [O] +54.89, 1.41' LT
- [P] END SHOULDER TAPER
- [Q] +00.00, 65.1' LT
- [R] END CURB, TYPE 4-C, APP
- [S] END GR, BTA TYPE 2
- [T] BEGIN BARRIER, TYPE D

- [F] END RAMP Q
- [G] CONST. SR-8 STA. 327+39.78, 39.90' LT =
- [H] CONST. LANE S STA. 6328+57.68, 0.00' RT
- [I] NOT USED
- [J] NOT USED
- [K] NOT USED
- [L] NOT USED
- [M] NOT USED
- [N] NOT USED

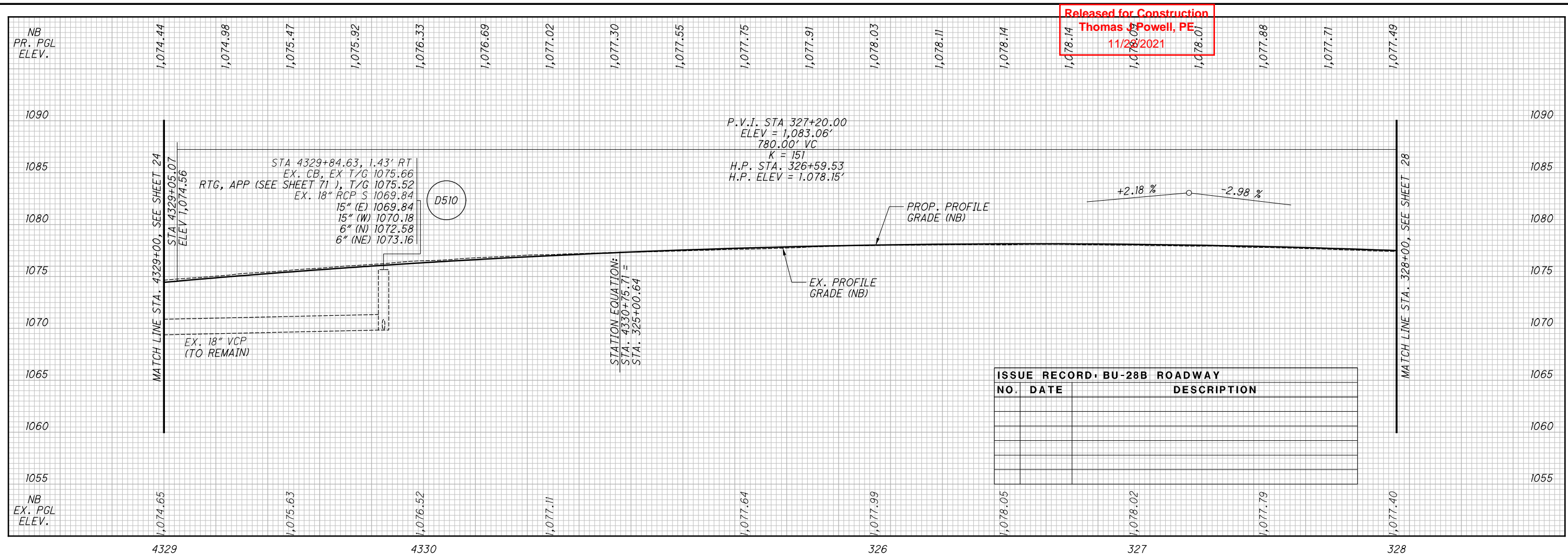
- [A] +14.89, 2.16' LT
- [B] BEGIN SHOULDER TAPER
- [C] SR-8/RAMP Q GORE
- [D] CONST. SR-8 STA. 326+46.80, 34.00' RT =
- [E] CONST. RAMP Q STA. 2547+85.35, 0.84' RT
- [F] SR-8/LANE S GORE
- [G] CONST. SR-8 STA. 4329+82.16, 39.90' LT =
- [H] CONST. LANE S STA. 6331+88.02, 12.00' LT
- [I] +57.78, 44.00' RT
- [J] END CURB
- [K] END RAMP Q
- [L] CONST. SR-8 STA. 326+61.48, 33.12' RT =
- [M] CONST. RAMP Q STA. 2548+00.15, 0.00' RT

PLAN - SR-8  
 STA. 4329+00 TO STA. 328+00

2021-11-18 - BU 28B - RFC

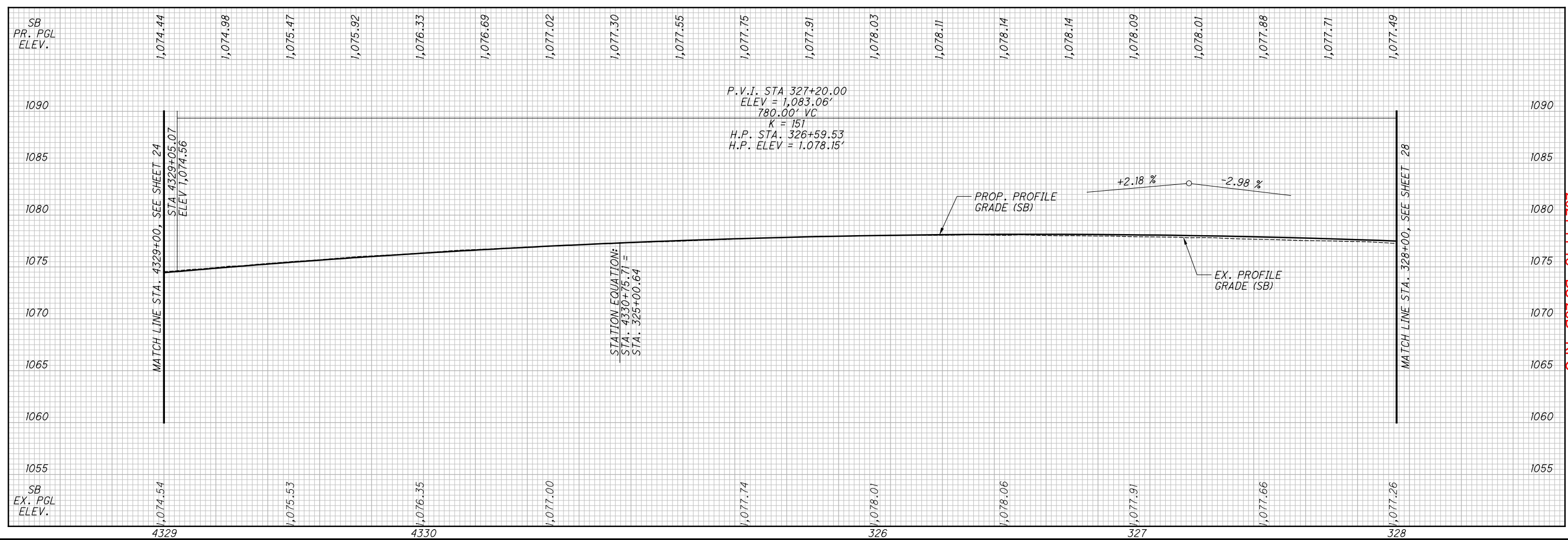
SUM-76/77/8-  
 8.24/9.74/0.00

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**ISSUE RECORD - BU-28B ROADWAY**

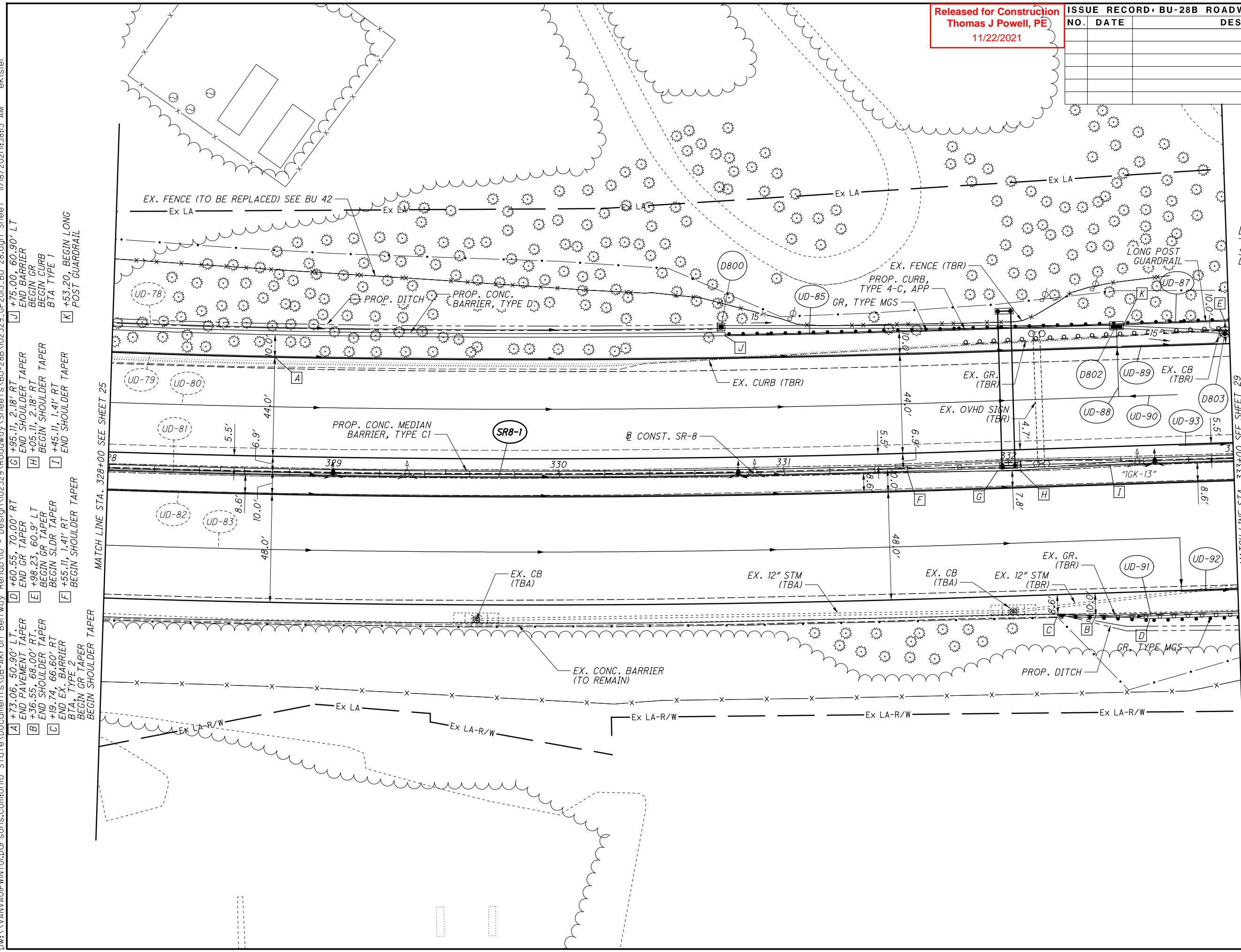
NO.	DATE	DESCRIPTION



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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



**LEGEND**  
SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS

**SR8-1**

PI Sta. 328+39.86  
 $\Delta = 6^\circ 46' 55''$  (LT)  
 DC =  $1^\circ 00' 00''$   
 R = 5,729.58'  
 T = 339.22'  
 L = 677.65'  
 E = 10.03'  
 eMAX = 0.0270  
 PC Sta. 325+00.64  
 PT Sta. 331+78.29  
 vDES = 60 MPH

J +75.00, 60.90' LT  
 END BARRIER  
 BEGIN GR  
 BTA TYPE 1  
 K +53.20, BEGIN LONG  
 POST GUARDRAIL  
 G +95.11, 2.18' RT  
 END SHOULDER TAPER  
 END GR TAPER  
 H +05.11, 2.18' RT  
 BEGIN SHOULDER TAPER  
 I +45.11, 1.41' RT  
 END SHOULDER TAPER  
 D +60.55, 70.00' RT  
 END PAVEMENT TAPER  
 END GR TAPER  
 E +98.23, 60.9' LT  
 BEGIN GR TAPER  
 BEGIN SLDR TAPER  
 F +55.11, 1.41' RT  
 BEGIN SHOULDER TAPER  
 A +73.06, 50.90' LT.  
 END SHOULDER TAPER  
 B +36.55, 68.00' RT.  
 END SHOULDER TAPER  
 C +19.74, 66.60' RT  
 END EX. BARRIER  
 BTA, TYPE 2  
 BEGIN GR TAPER  
 BEGIN SHOULDER TAPER

MATCH LINE STA. 328+00 SEE SHEET 25

MATCH LINE STA. 333+00 SEE SHEET 29

**PLAN - SR-8**  
**STA. 328+00 TO STA. 333+00**

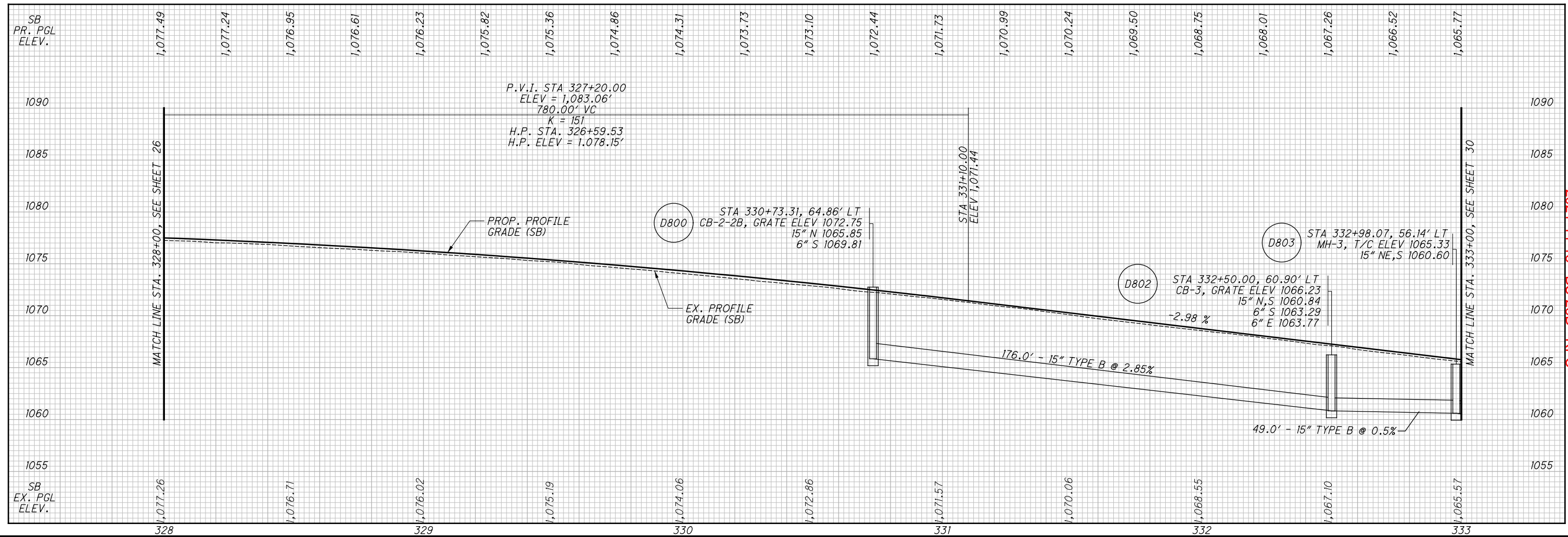
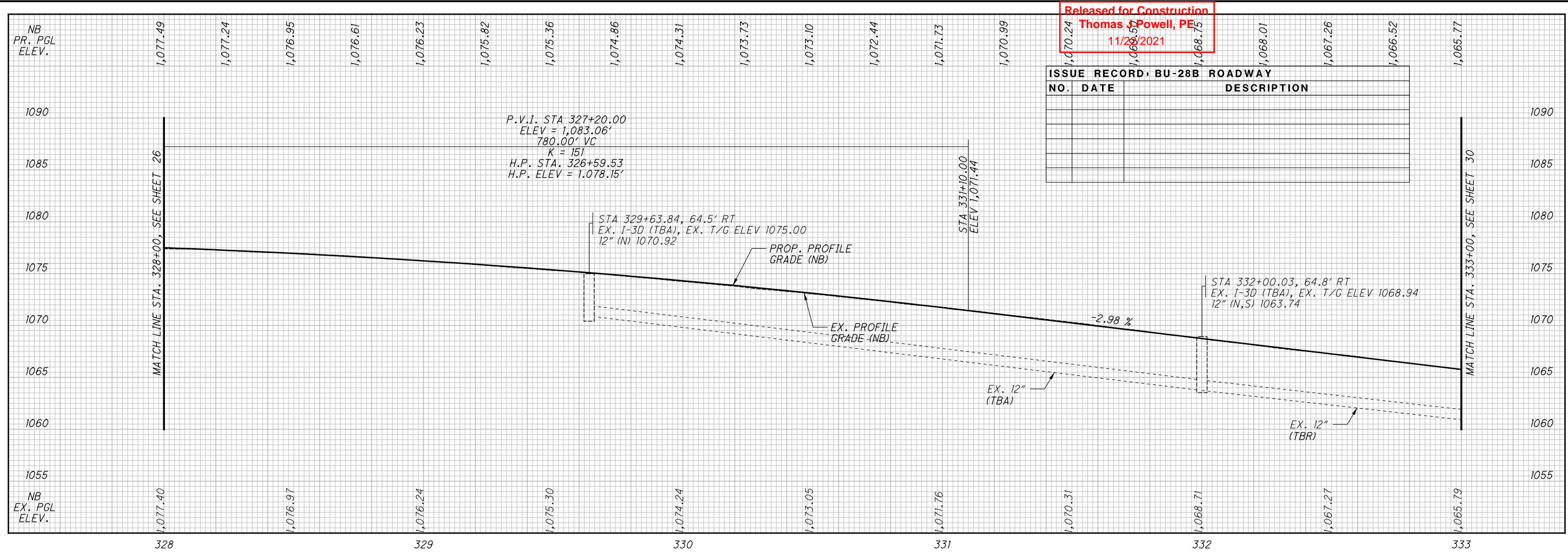
2021-11-18 - BU 28B - RFC

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

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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



CALCULATED  
AA  
CHECKED  
EAK

PROFILE - SR 8  
STA. 328+00 TO STA. 333+00

2021-11-18 - BU 28B - RFC

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

28  
86

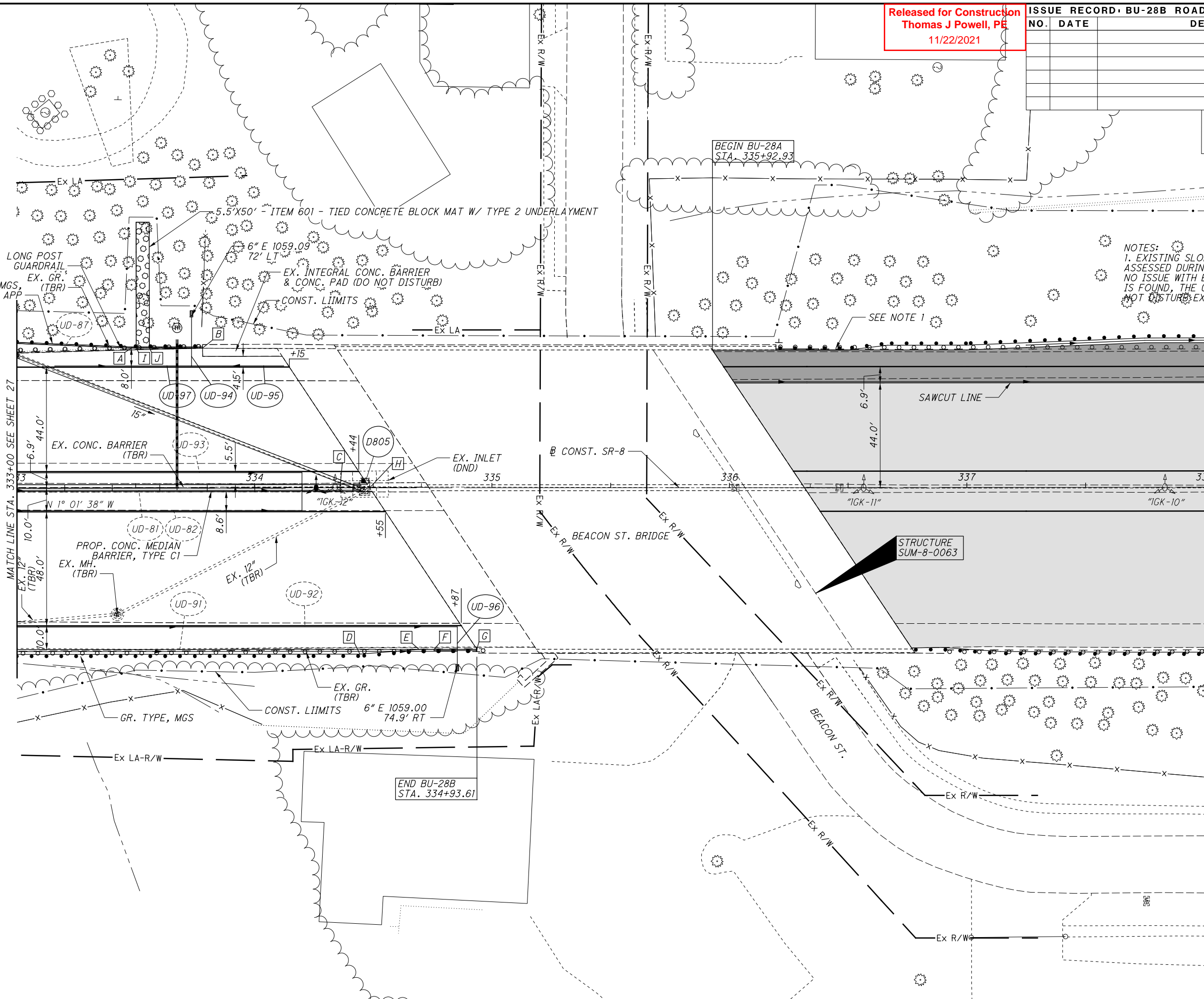
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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

CALCULATED AA  
 CHECKED EAK  
 HORIZONTAL SCALE IN FEET  
 0 20 40

- [A] +48.19, 58.90' LT  
END SHOULDER TAPER
- [B] +78.20, 58.90' LT  
CONNECT GR TO EX. BRIDGE, BTA TYPE 2  
END LONG POST GUARDRAIL  
END CURB
- [C] +36.0±, 0.0' END  
BARRIER @ EX. INLET JOINT
- [D] +44.35, 70.00' RT  
BEGIN GR TAPER
- [E] +69.27, 68.00' RT  
END GR TAPER
- [F] +75.61, 68.00' RT  
BEGIN CURB
- [G] +93.61, 68.00' RT  
END CURB
- [H] +48.52, 0.0' BEGIN  
EX. APPROACH SLAB
- [I] +50.25, 58.90' LT  
END CURB  
TAPER CURB HEIGHT PER SCD DM-4.1
- [J] +55.75, 58.90' LT  
BEGIN CURB  
TAPER CURB HEIGHT PER SCD DM-4.1



NOTES:  
 1. EXISTING SLOPE CONDITION TO BE ASSESSED DURING CONSTRUCTION. IF NO ISSUE WITH EXISTING CONDITION IS FOUND, THE CONTRACTOR SHALL NOT DISTURB EXISTING SLOPE.

**LEGEND**  
 SEE GENERAL NOTES FOR LIST OF PLAN ABBREVIATIONS  
 PAVEMENT PLANING & RESURFACING  
 FULL DEPTH PAVEMENT REPLACEMENT

PLAN - SR-8  
 STA. 333+00 TO STA. 338+00

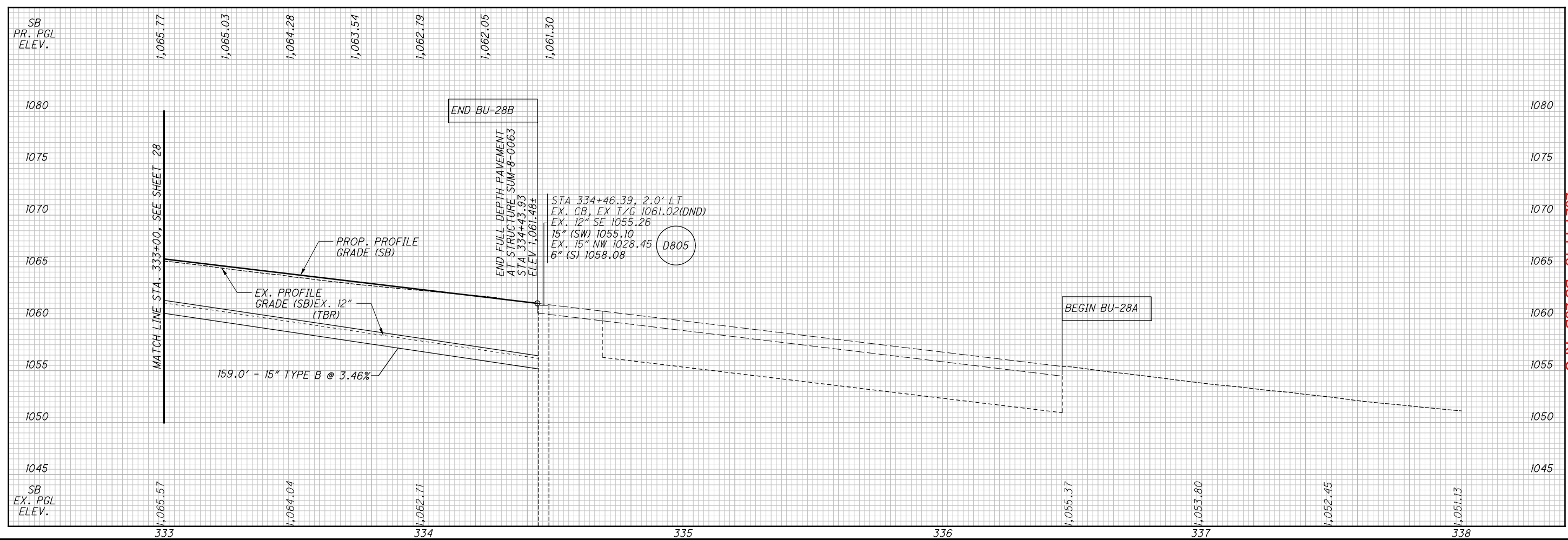
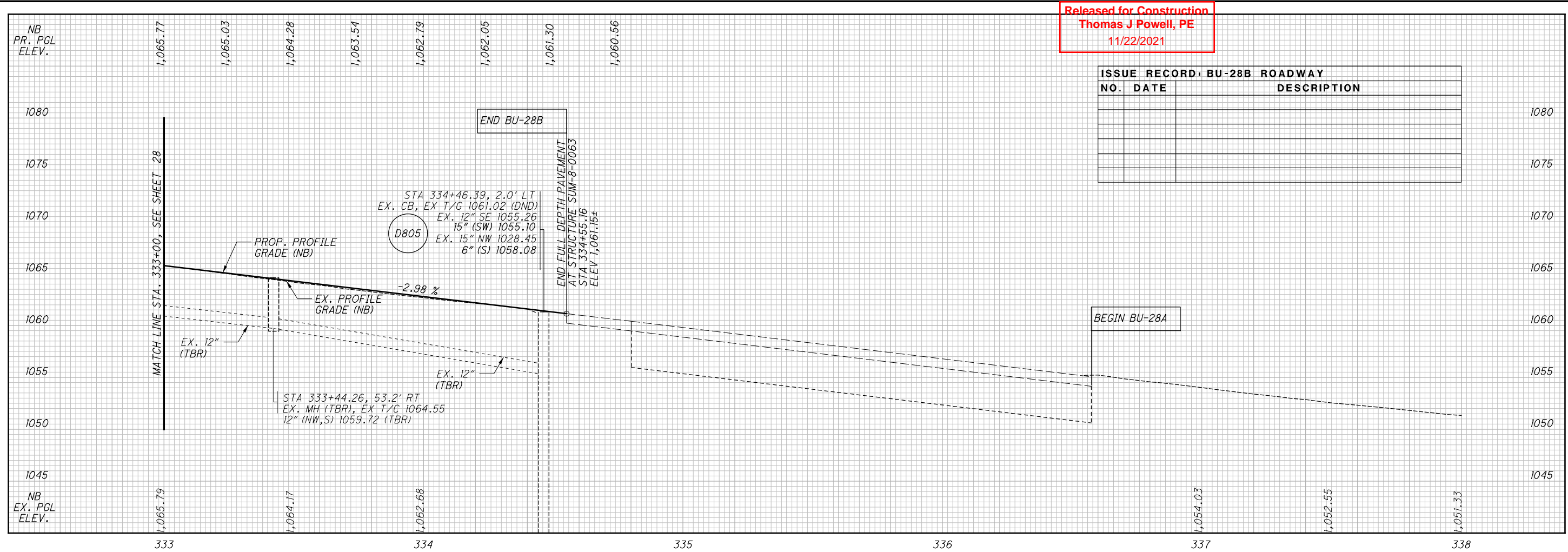
2021-11-18 - BU 28B - RFG

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

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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



CALCULATED AA  
 CHECKED EAK  
**PROFILE - SR 8**  
**STA. 333+00 TO STA. 338+00**  
 2021-11-18 - BU 28B - RFC  
**SUM-76/77/8-8.24/9.74/0.00**  
 30/86

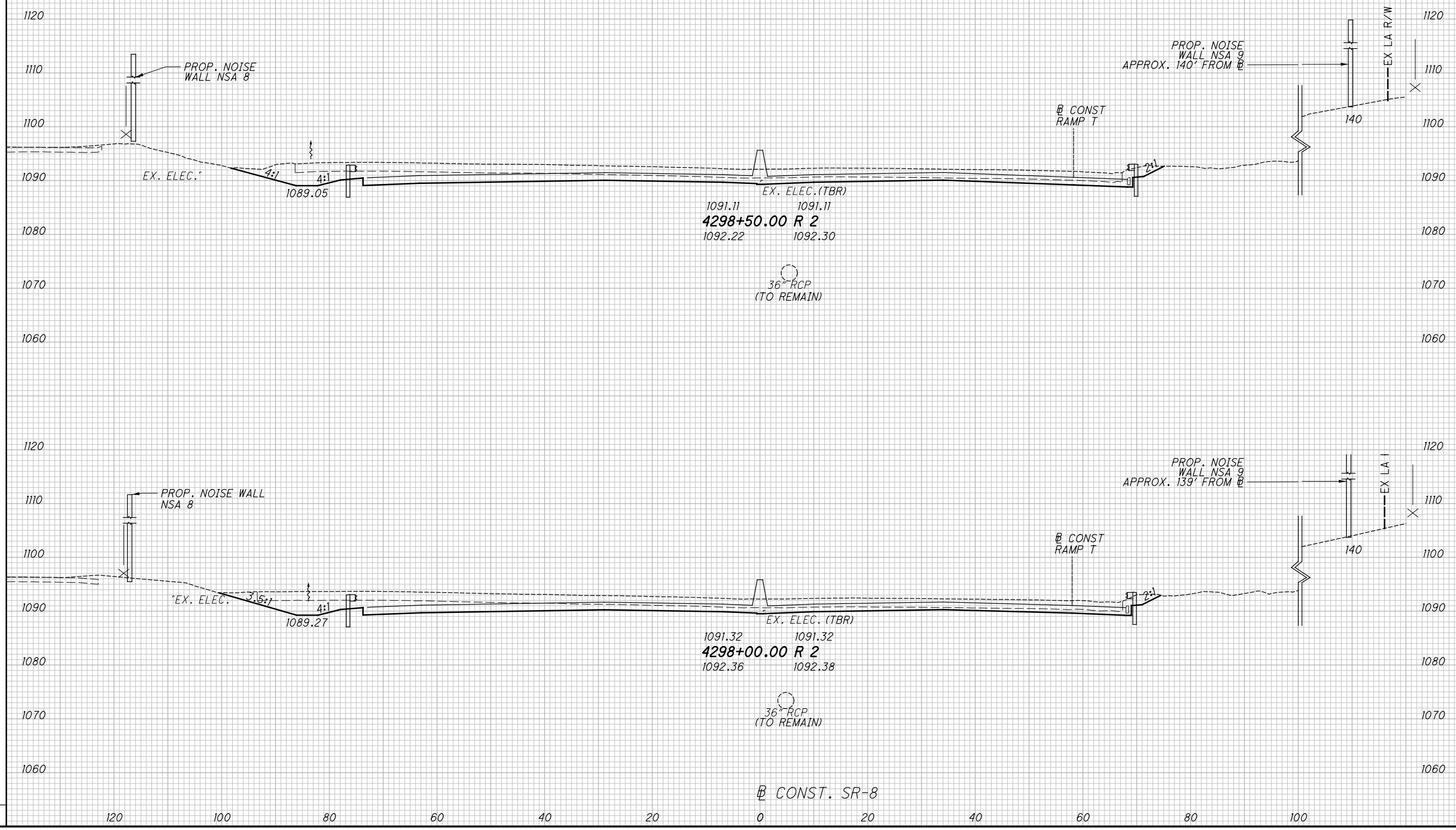
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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

Release of Record  
 Thomas J. Powell, PE  
 11/22/2021

BU-28B ROADWAY	
DESCRIPTION	

CONST. SR-8

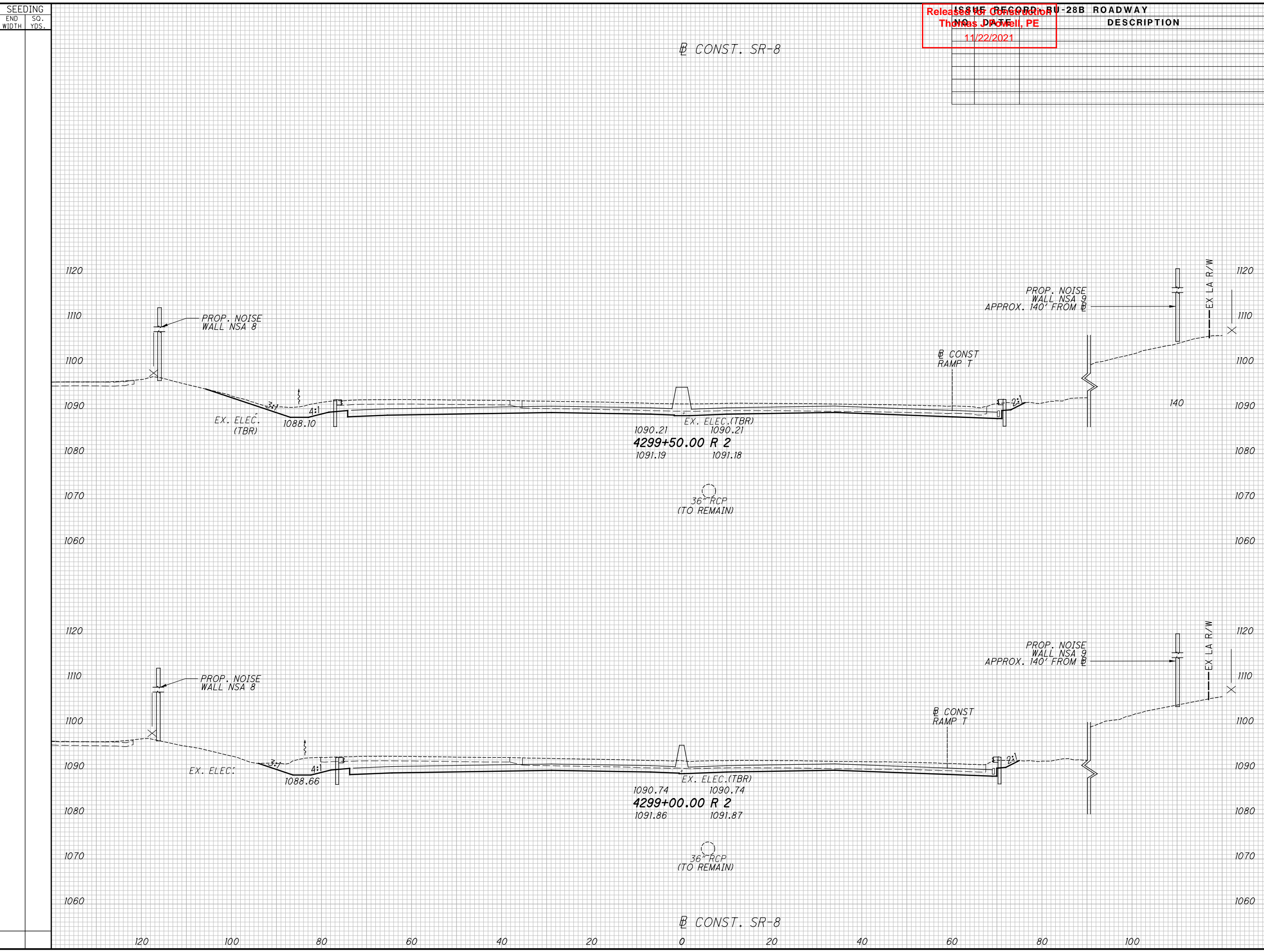


<b>CROSS SECTIONS - SR-8</b>  <b>STA. 4298+00.00 TO STA. 4298+50.00</b>	<b>SUM-76 / 77 8</b> <b>8.24 / 9.74 / 0.00</b>
2021-11-18 - BU 28B - RFC	31 86

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ISSUE RECORD	BU-28B ROADWAY
Released for Construction	
Thomas Powell, PE	
11/22/2021	

END AREA	VOLUME	CALCULATED	CHECKED				
				CUT	FILL	JTB	EAK
<b>CROSS SECTIONS - SR-8</b>							
<b>STA. 4299+00.00 TO STA. 4299+50.00</b>							
<b>SUM-76 / 77 / 8</b>							
<b>8.24 / 9.74 / 0.00</b>							
<b>2021-11-18 - BU 28B - RFC</b>							

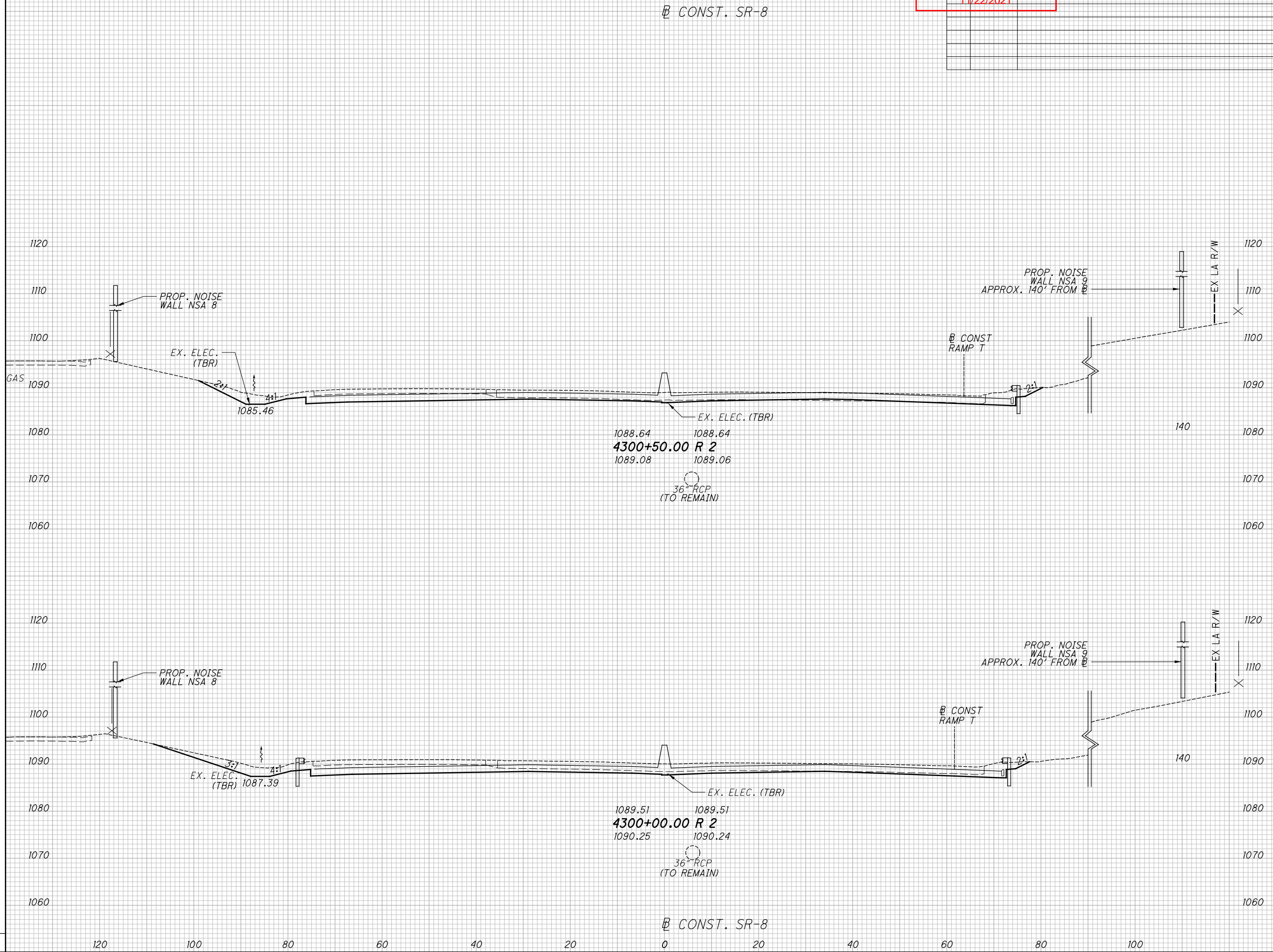




SEEDING  
END WIDTH SO. YDS.  
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ISSUE RECORD		BU-28B ROADWAY
Released For Construction	Thomas Powell, PE	DESCRIPTION
11/22/2021		

END AREA	VOLUME	CALCULATED	CHECKED						
				CUT	FILL	CUT	FILL	JTB	EAK
				<b>CROSS SECTIONS - SR-8</b> <b>STA. 4300+00.00 TO STA. 4300+50.00</b>				<b>SUM-76 / 77 8</b> <b>8.24 / 9.74 / 0.00</b>	
				2021-11-18 - BU 28B - RFC				33 86	



CONST. SR-8

CONST. SR-8

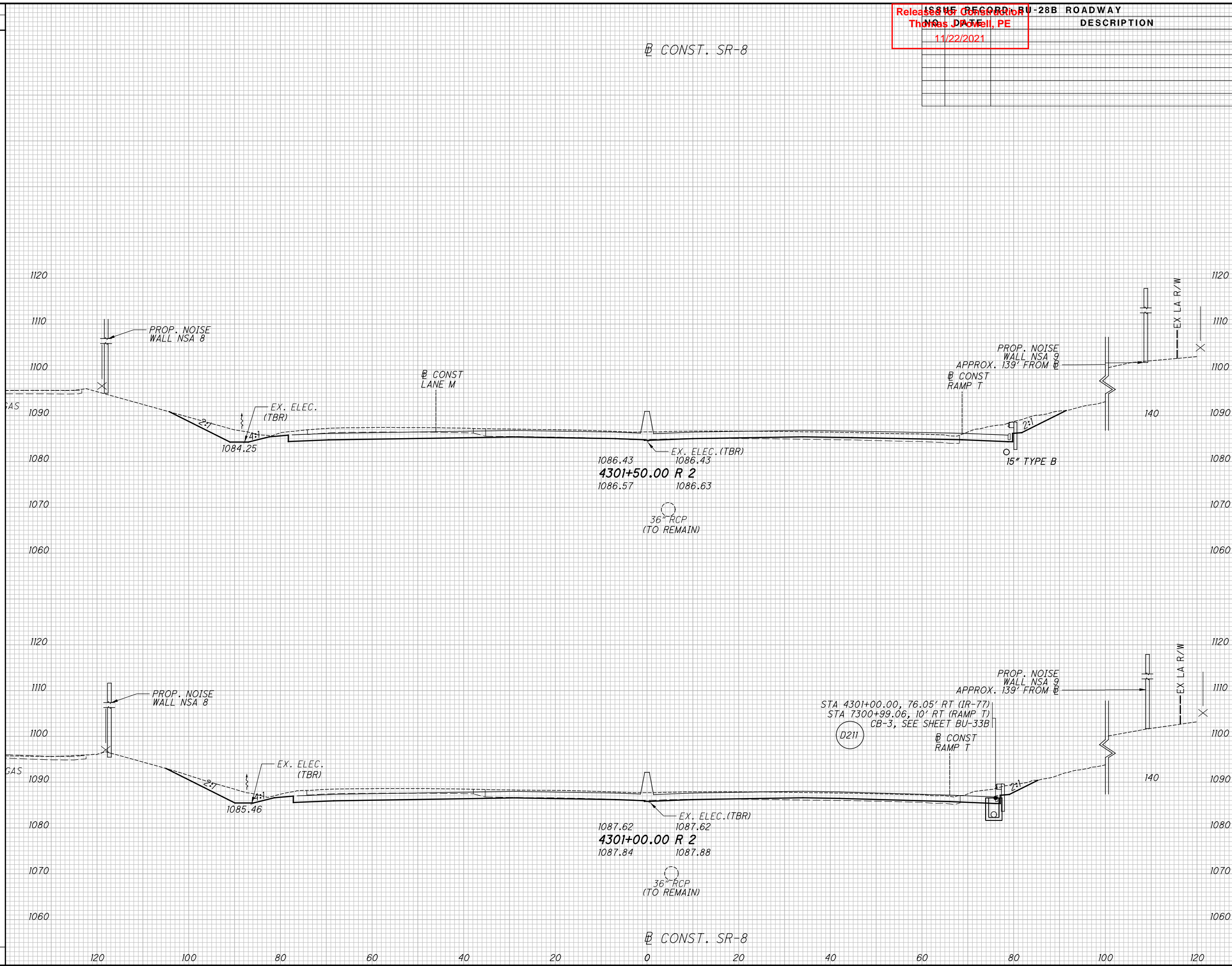
pw:\VANVAOP\WINTO\parsons.com\Ohio State\Documents\08-Akron Beltway Rehab\0 - Design\02329\Roadway\Sheets\BU-28B\02329\_X500\_LBU28.dgn Sheet 11/18/2021 11:38:41 AM ekistiel

SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUED FOR CONSTRUCTION  
 Thomas Powell, PE  
 11/22/2021

BU-28B ROADWAY  
DESCRIPTION

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	JTB	EAK



**CROSS SECTIONS - SR-8**  
**STA. 4301+00.00 TO STA. 4301+50.00**

2021-11-18 - BU 28B - RFC

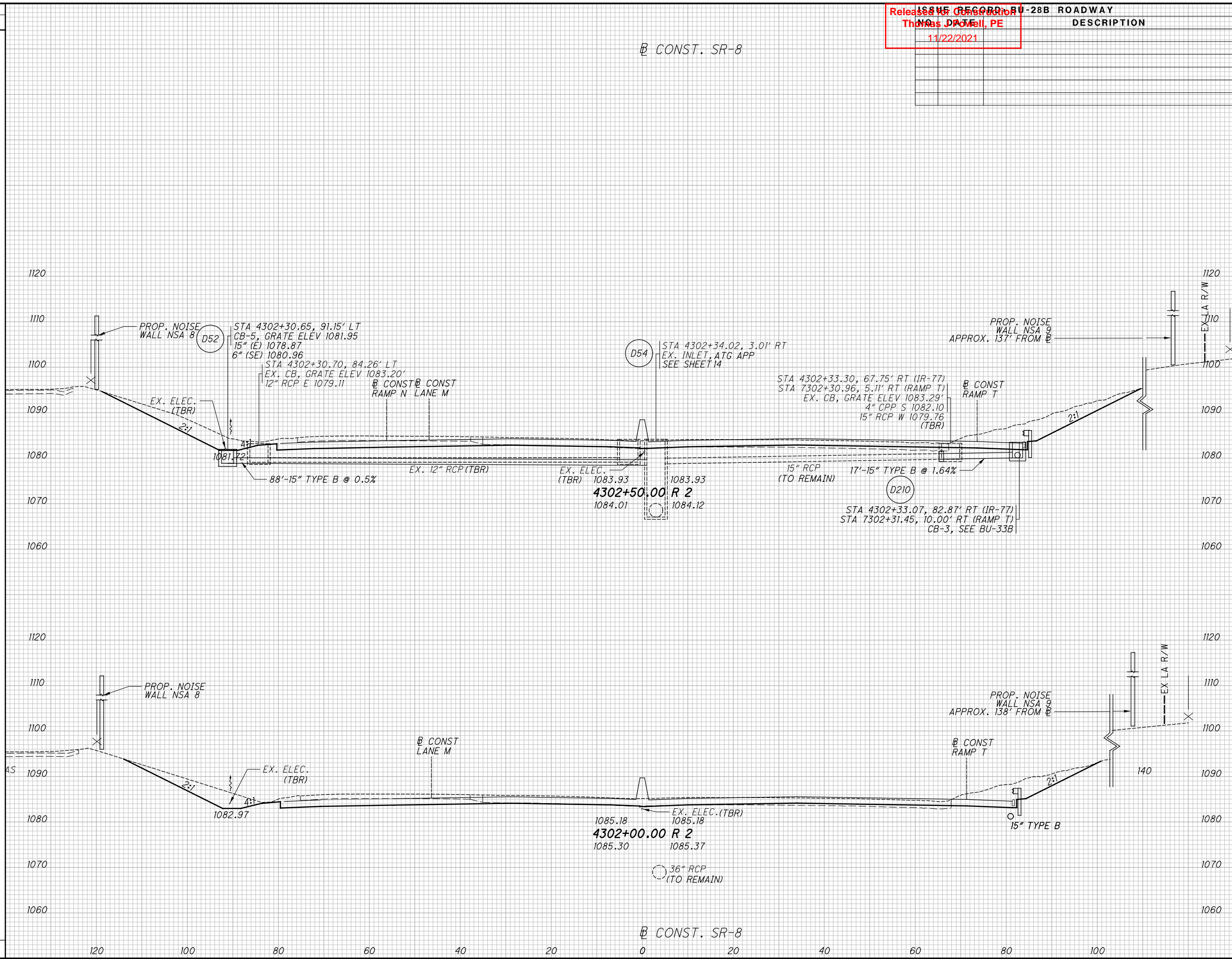
**SUM-76 / 77 8**  
**8.24 / 9.74 / 0.00**

34  
 86

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SEEDING		END AREA	VOLUME
END WIDTH	SO. YDS.	CUT	FILL

ISSUE	REVISION	DESCRIPTION	END AREA	VOLUME	CALCULATED	CHECKED	EAK
			CUT	FILL	JTB	EAK	
11/22/2021	Thomas Powell, PE						



**CROSS SECTIONS - SR-8  
STA. 4302+00.00 TO STA. 4302+50.00**

2021-11-18 - BU 28B - RFC

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

35  
86

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

ISSUE RECORD BU-28B ROADWAY  
 Thomas Powell, PE  
 11/22/2021

DESCRIPTION	

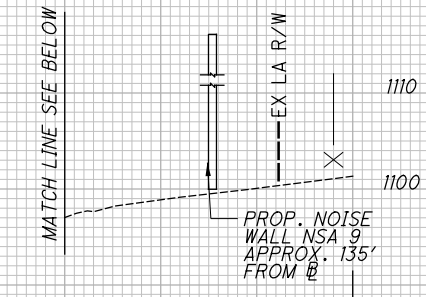
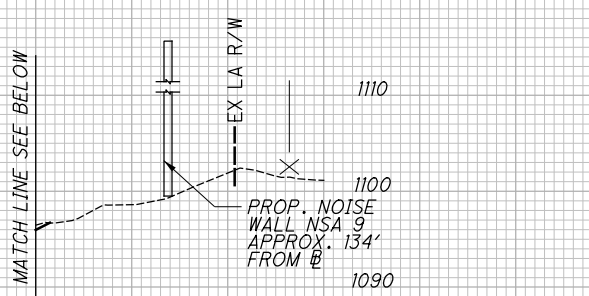
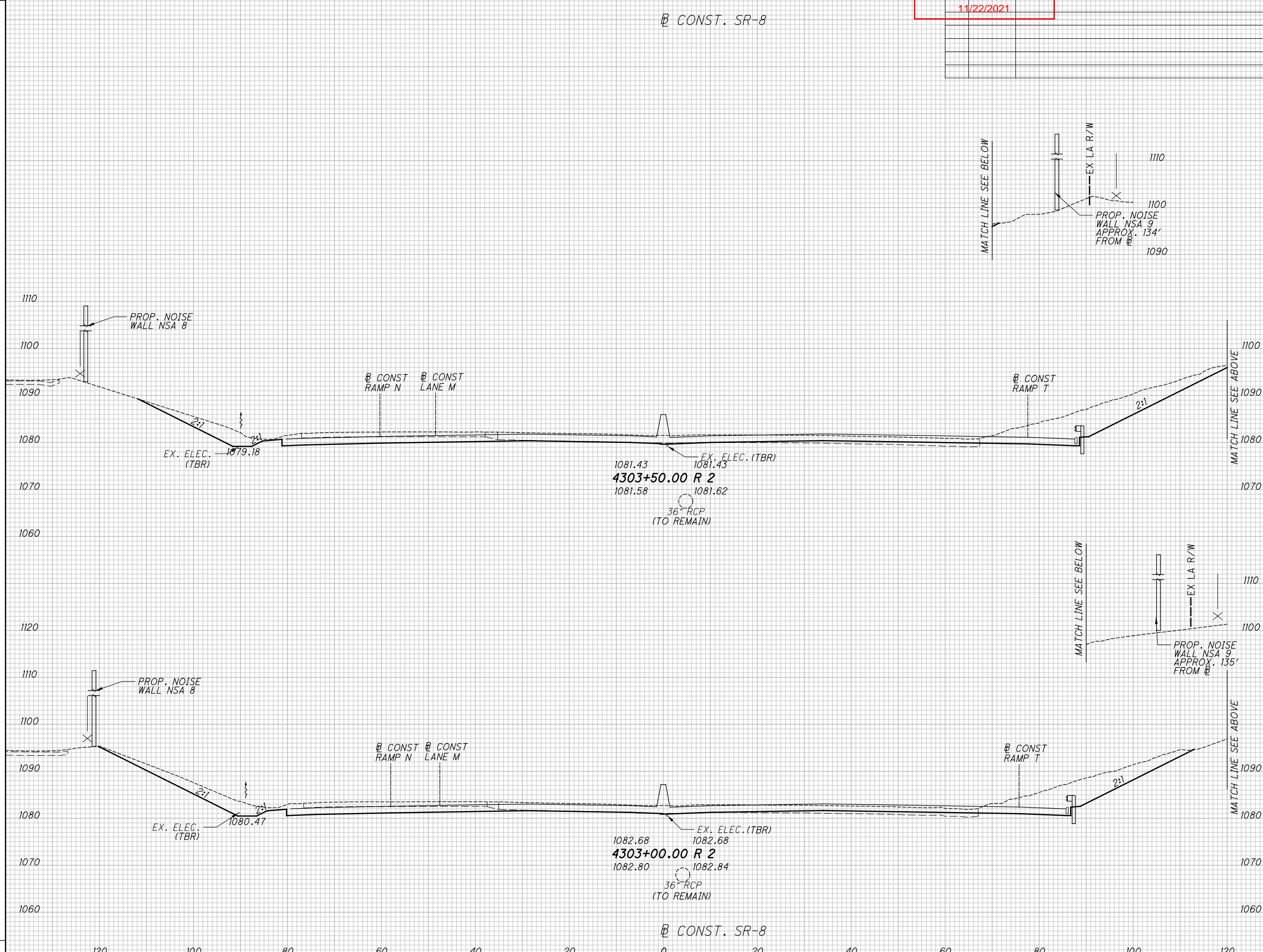
END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	JTB	EAK

**CROSS SECTIONS - SR-8**  
**STA. 4303+00.00 TO STA. 4303+50.00**

2021-11-18 - BU 28B - RFC

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

36  
86



CONST. SR-8

CONST. SR-8

1081.43  
**4303+50.00 R 2**  
 1081.58 1081.62  
 36" RCP  
 (TO REMAIN)

1082.68  
**4303+00.00 R 2**  
 1082.80 1082.84  
 36" RCP  
 (TO REMAIN)

PROP. NOISE WALL NSA 8

PROP. NOISE WALL NSA 8

CONST RAMP N  
 CONST LANE M

CONST RAMP N  
 CONST LANE M

CONST RAMP T

CONST RAMP T

EX. ELEC. (TBR)  
 1079.18

EX. ELEC. (TBR)  
 1080.47

EX. ELEC. (TBR)  
 1081.43

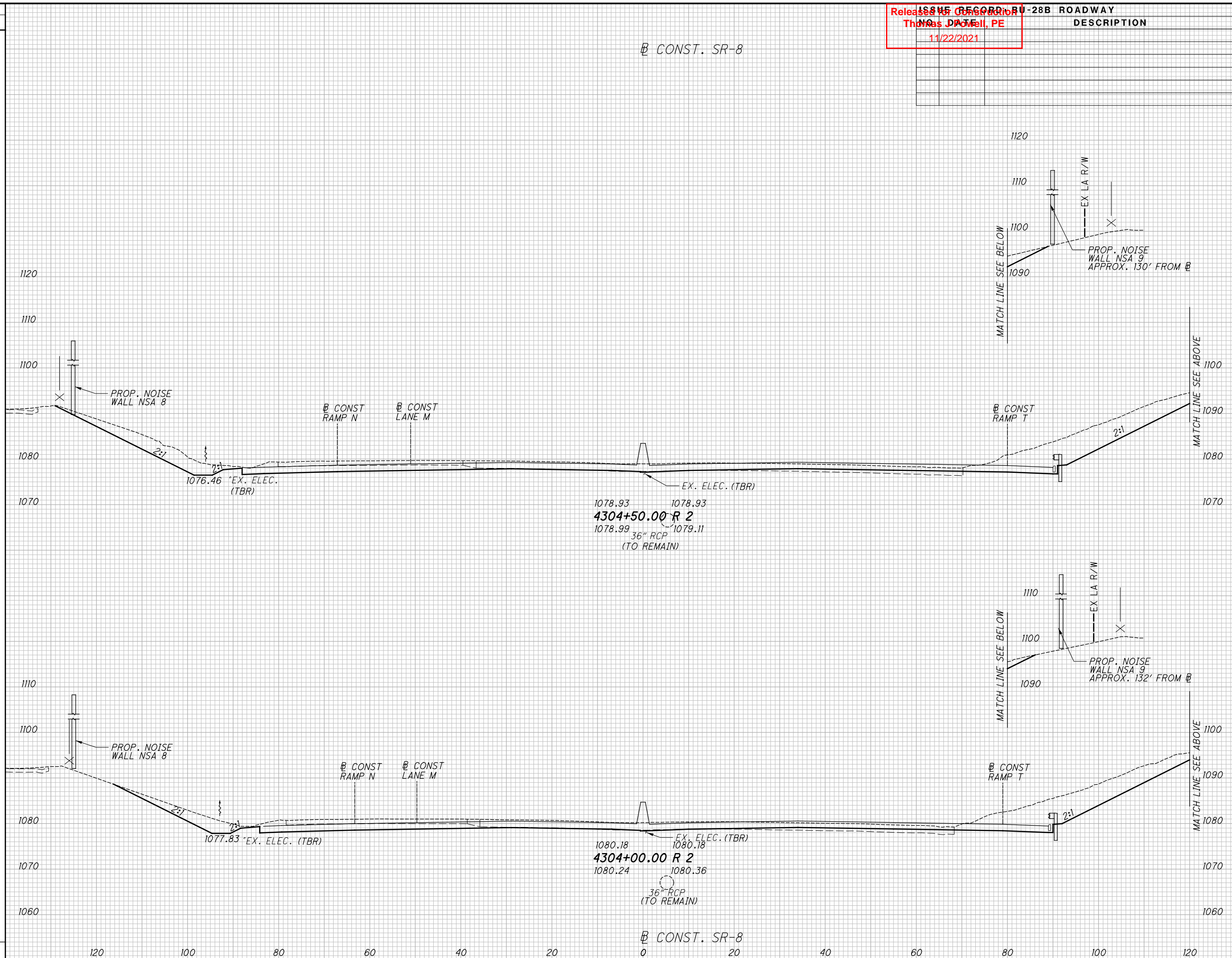
EX. ELEC. (TBR)  
 1082.68

120 100 80 60 40 20 0 20 40 60 80 100 120

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ISSUE NO.	DESCRIPTION
1	11/22/2021

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

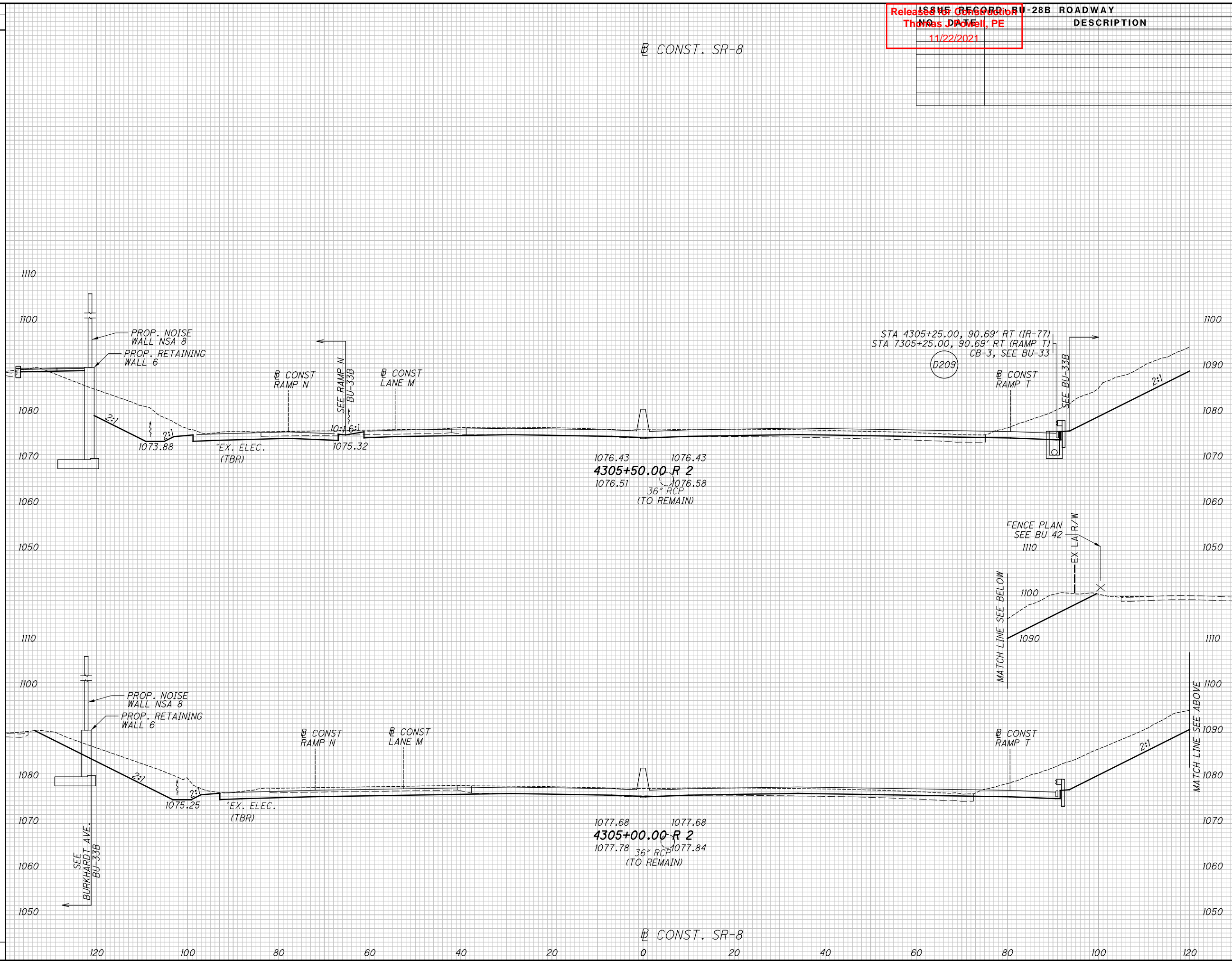


**CROSS SECTIONS - SR-8**  
**STA. 4304+00.00 TO STA. 4304+50.00**  
 2021-11-18 - BU 28B - RFC  
**SUM-76 / 77 / 8**  
**8.24 / 9.74 / 0.00**  
 37 / 86

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUE NO.	DESCRIPTION
1	Release for Construction
2	Thomas Powell, PE
3	11/22/2021



<b>CROSS SECTIONS - SR-8</b>	
<b>STA. 4305+00.00 TO STA. 4305+50.00</b>	
<b>2021-11-18 - BU 28B - RFC</b>	<b>8 / 77 / 0.00</b>
<b>SUM-76</b>	<b>8.24 / 9.74 / 0.00</b>
(38)	(86)

CONST. SR-8

CONST. SR-8

1076.43 1076.43  
**4305+50.00 R 2**  
 1076.51 1076.58  
 36" RCP  
 (TO REMAIN)

1077.68 1077.68  
**4305+00.00 R 2**  
 1077.78 1077.84  
 36" RCP  
 (TO REMAIN)

STA 4305+25.00, 90.69' RT (IR-77)  
 STA 7305+25.00, 90.69' RT (RAMP T)  
 CB-3, SEE BU-33

FENCE PLAN  
 SEE BU 42

1110  
1100  
1080  
1070  
1060  
1050  
1110  
1100  
1080  
1070  
1060  
1050

1110  
1100  
1080  
1070  
1060  
1050  
1110  
1100  
1080  
1070  
1060  
1050

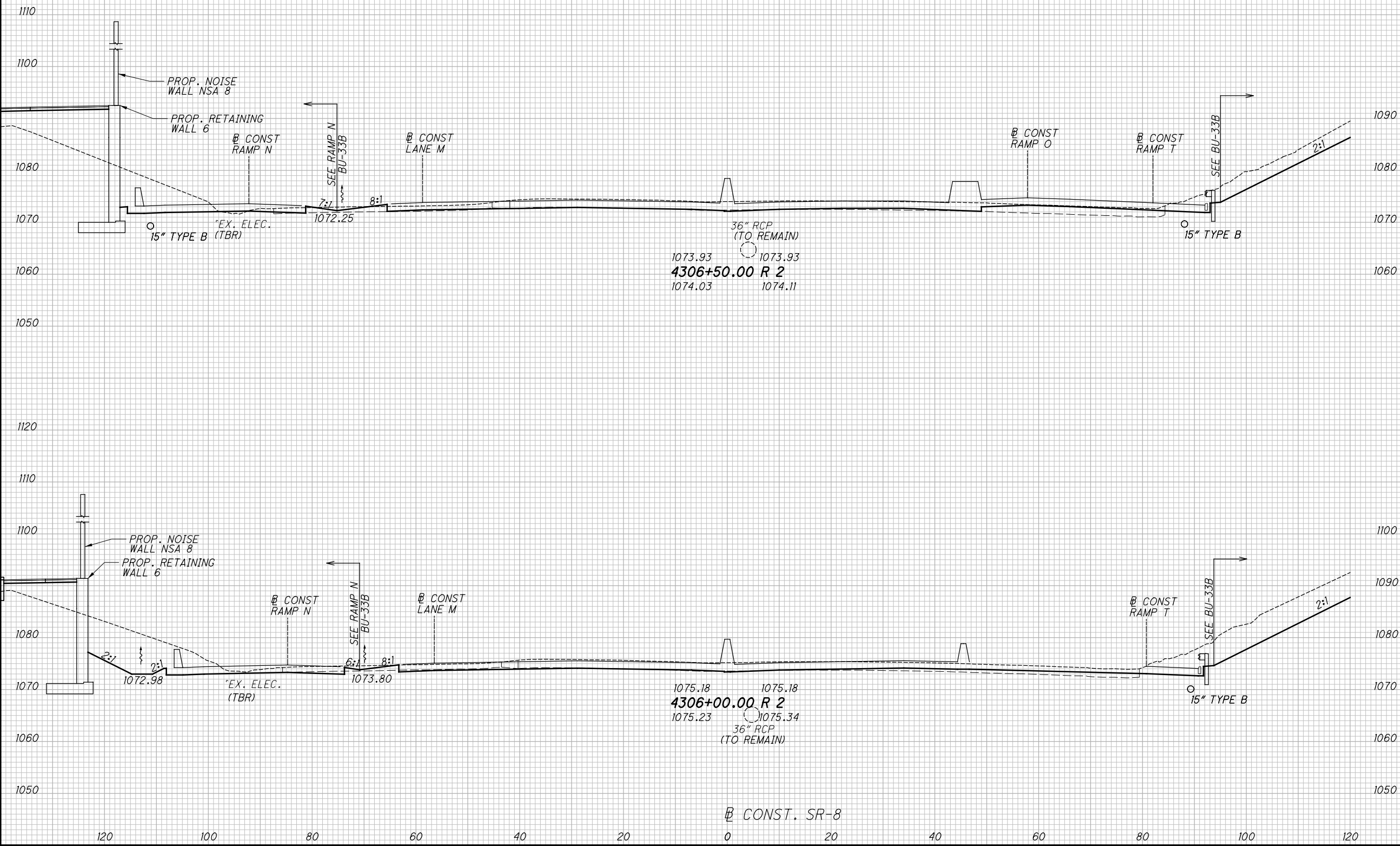
120 100 80 60 40 20 0 20 40 60 80 100 120

SEEDING

END SO. END SO. WIDTH YDS.

ISSUE RECORD BU-28B ROADWAY		END AREA	VOLUME		CALCULATED	CHECKED	
NO.	DESCRIPTION	CUT	FILL	CUT	FILL	JTB	EAK
1	Thomas Powell, PE						
2	11/22/2021						

CONST. SR-8



CONST. SR-8

**CROSS SECTIONS - SR-8**  
**STA. 4306+00.00 TO STA. 4306+50.00**

2021-11-18 - BU 28B - RFC

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

( 39 / 86 )

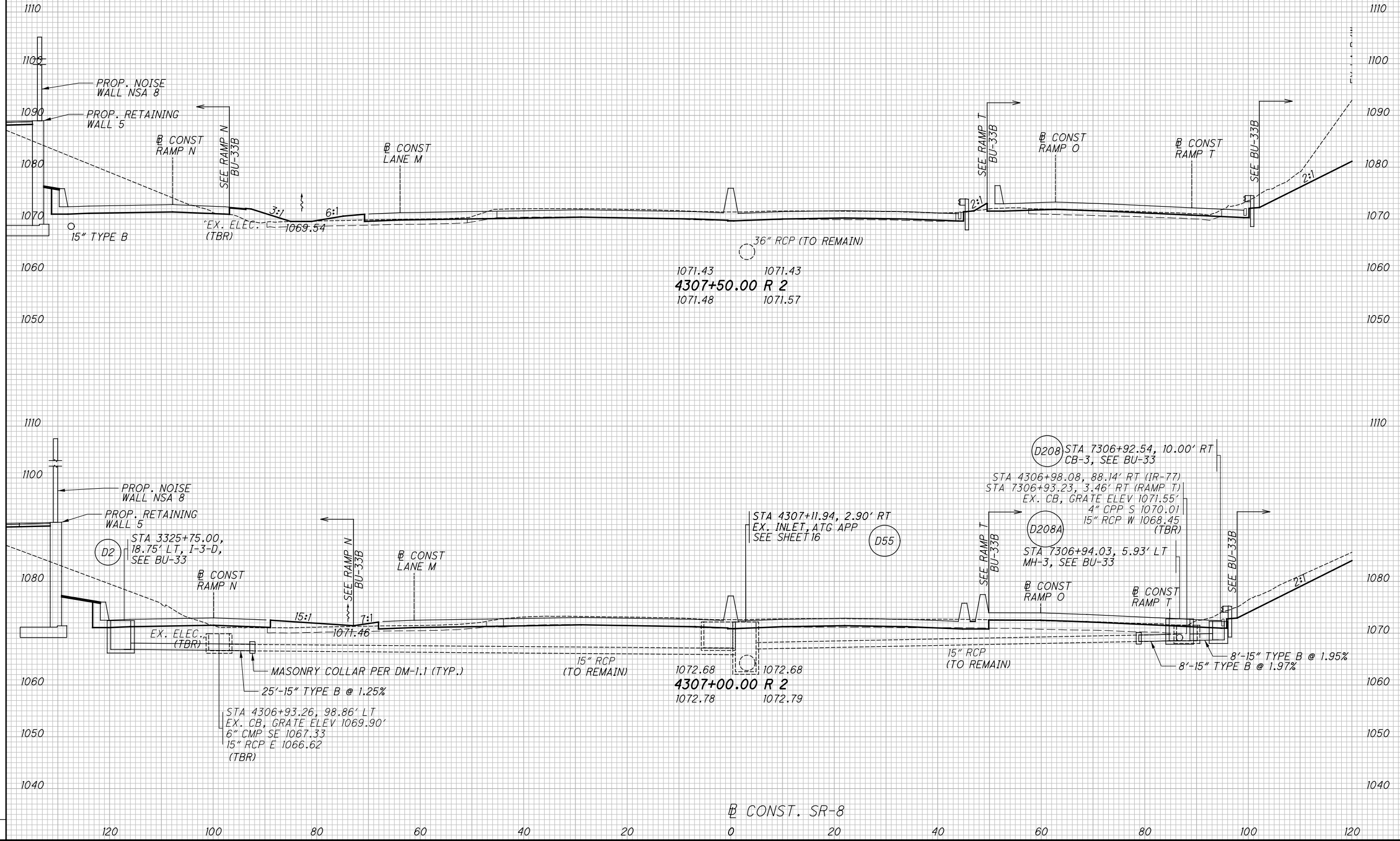
p:\VANVAIP\WINTO\parsons.com:Ohio State\Documents\08-Akron Beltway Rehab\10 - Design\02329 Roadway\Sheets\BU-28B\02329\_X5001\_BU28.dgn Sheet 11/18/2021 11:38:45 AM ekiste

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUE RECORD BU-28B ROADWAY  
 Thomas Powell, PE  
 11/22/2021

DESCRIPTION	



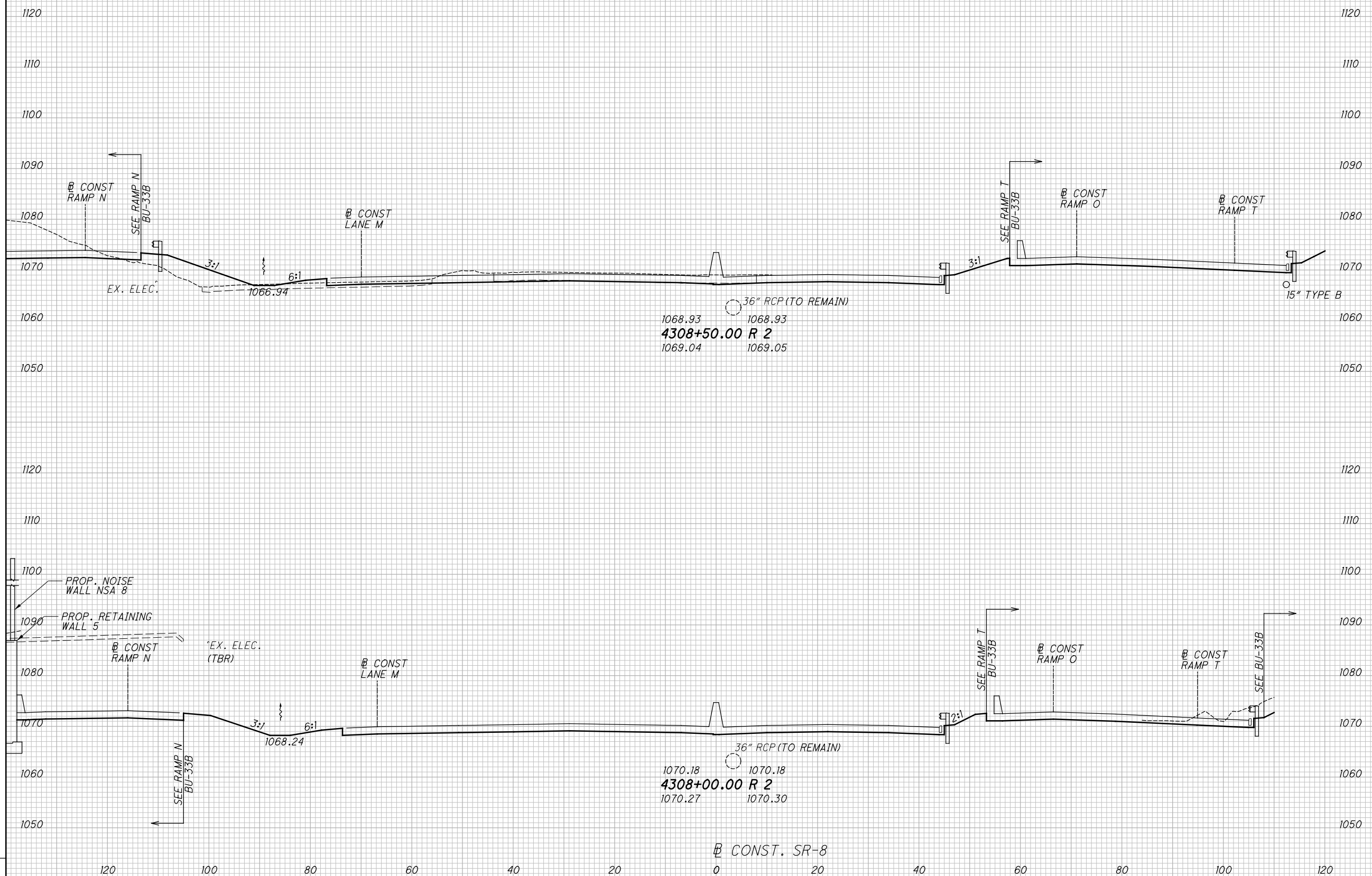
CROSS SECTIONS - SR-8  
 STA. 4307+00.00 TO STA. 4307+50.00  
 2021-11-18 - BU 28B - RFC  
 SUM-76 / 77 / 8  
 8.24 / 9.74 / 0.00  
 40  
 86



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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUE RECORD		BU-28B ROADWAY	
THOMAS D. POWELL, PE	DESCRIPTION		
11/22/2021			

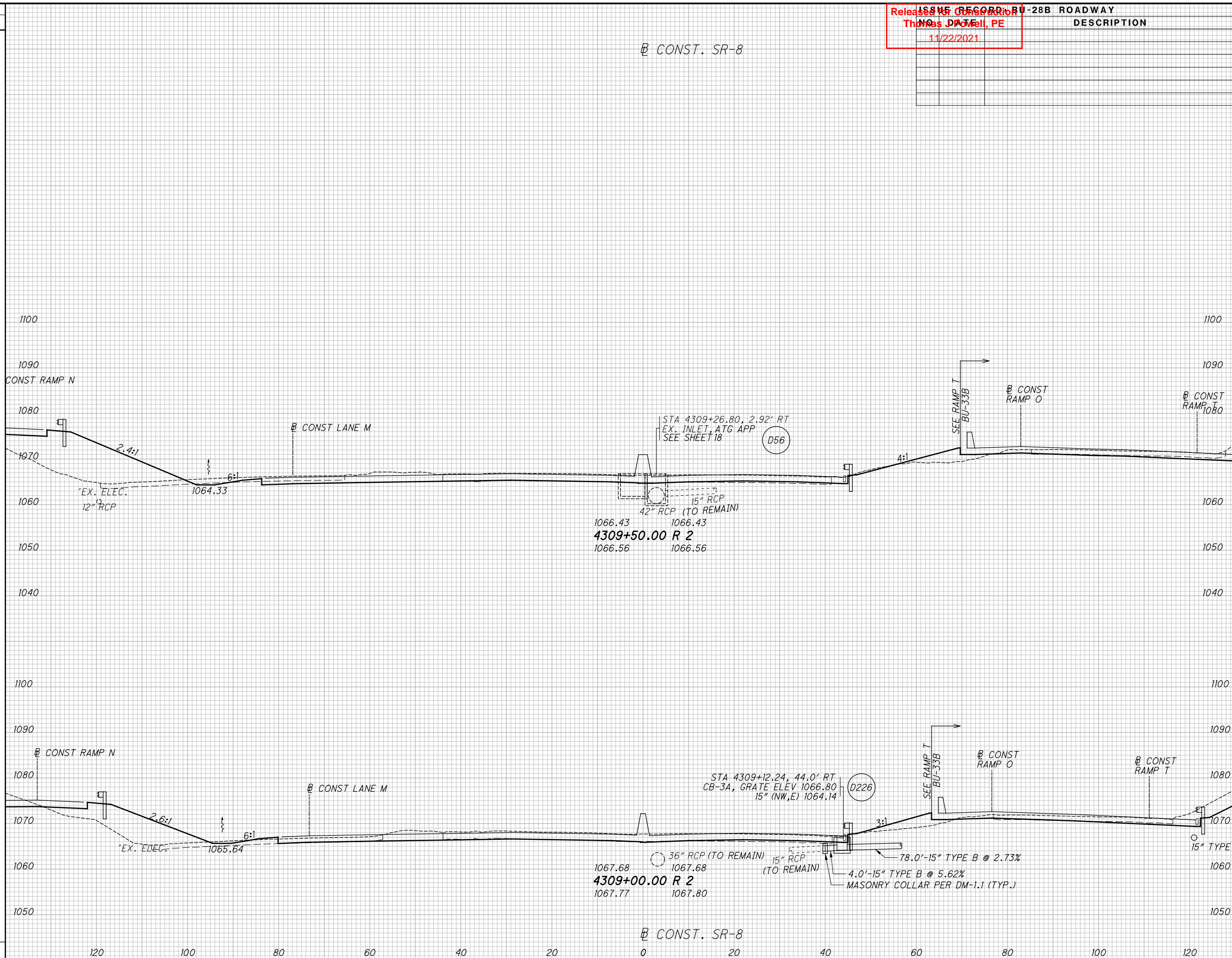


**CROSS SECTIONS - SR-8**  
**STA. 4308+00.00 TO STA. 4308+50.00**  
 2021-11-18 - BU 28B - RFC  
**SUM-76 / 77 8**  
**8.24 / 9.74 / 0.00**  
 41  
 86

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

ISSUE RECORD		BU-28B ROADWAY	
NO.	DESCRIPTION	DATE	BY
1	Released for Construction	11/22/2021	Thomas Powell, PE



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

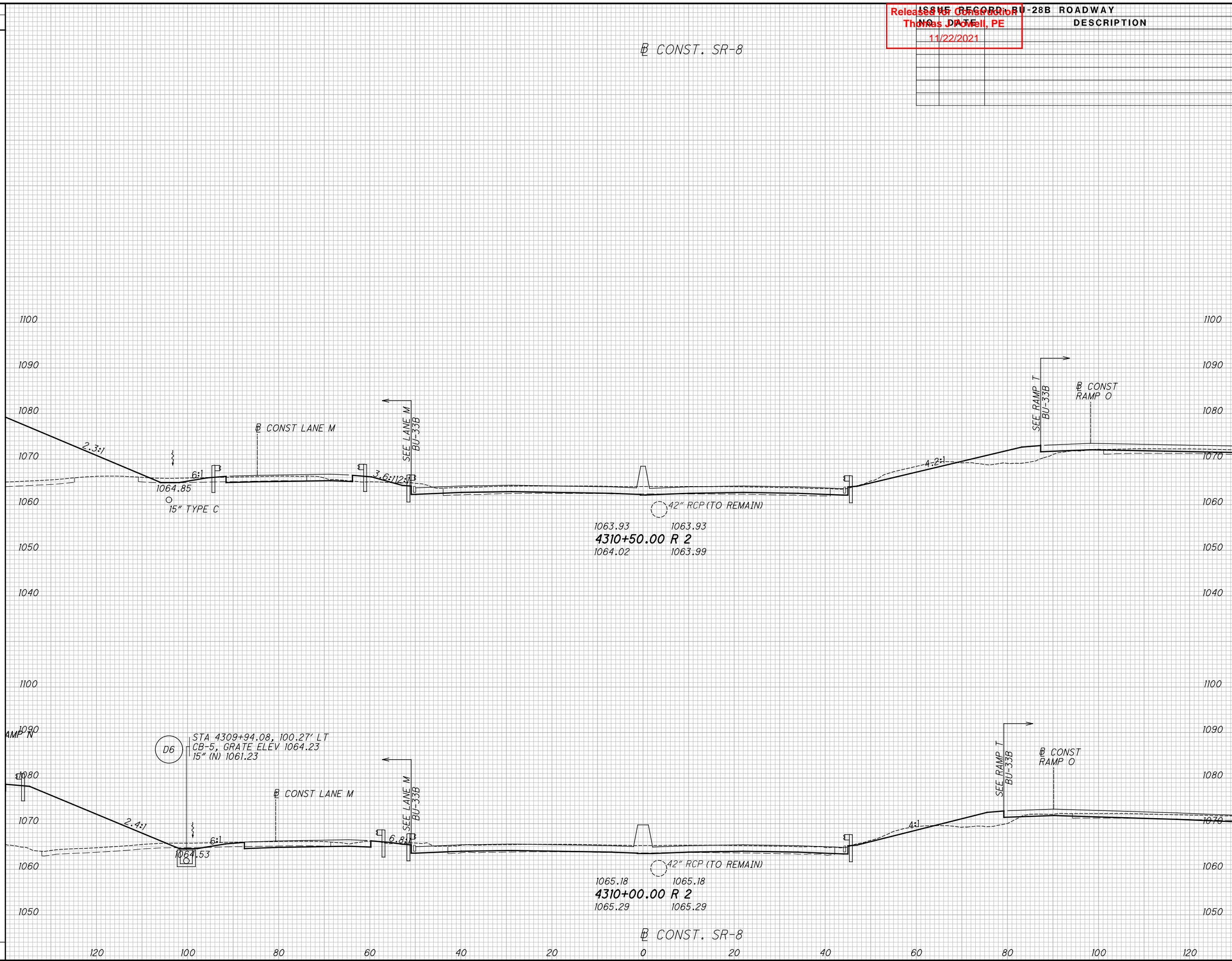
**CROSS SECTIONS - SR-8**  
**STA. 4309+00.00 TO STA. 4309+50.00**  
 2021-11-18 - BU 28B - RFC  
**SUM-76 / 77 8**  
**8.24 / 9.74 / 0.00**  
 42 / 86

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

Release of Construction  
 Thomas Powell, PE  
 11/22/2021

ISSUE NO.	DESCRIPTION



**CROSS SECTIONS - SR-8**  
**STA. 4310+00.00 TO STA. 4310+50.00**

2021-11-18 - BU 28B - RFC

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

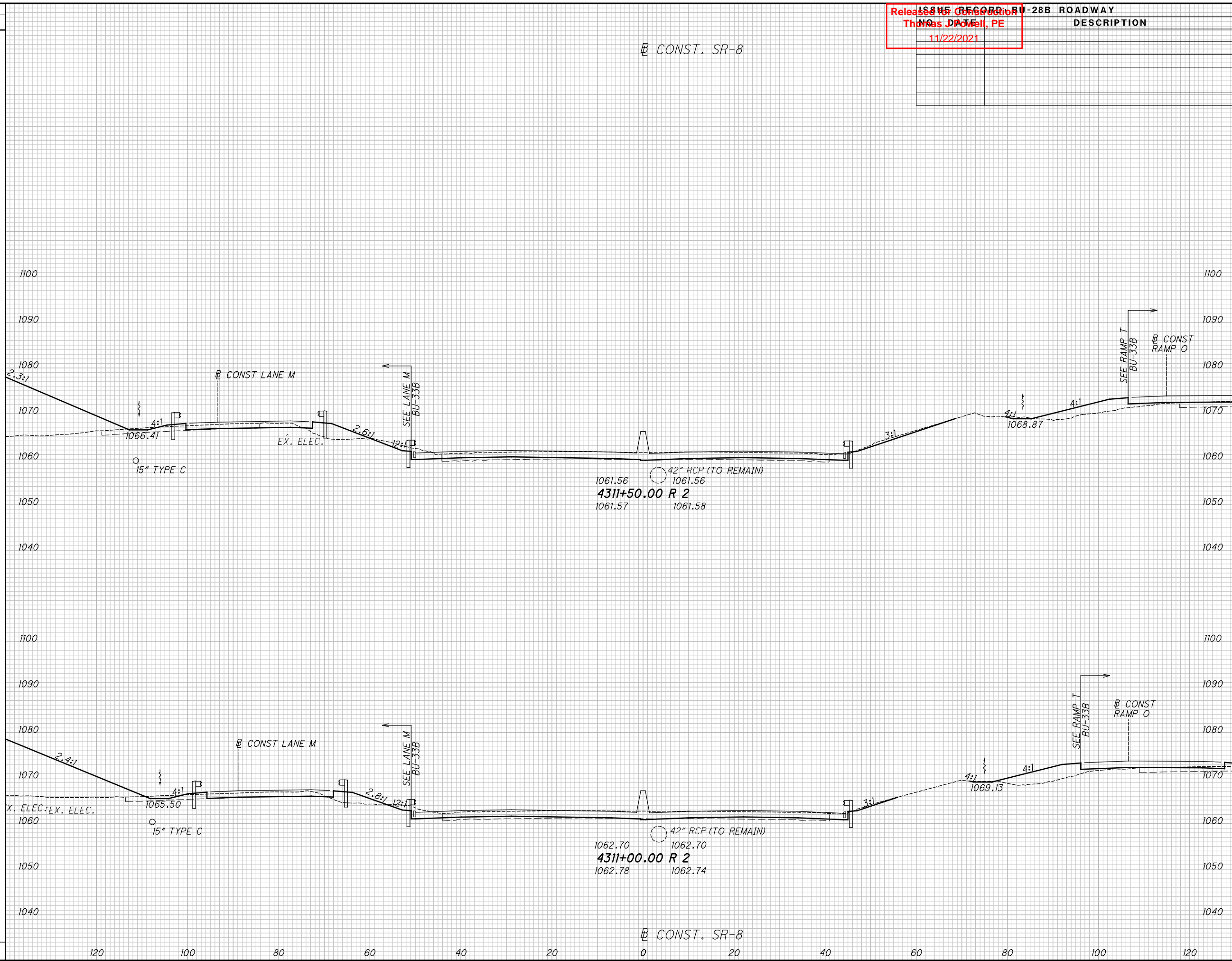
43  
86

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUED FOR CONSTRUCTION  
 Thomas Powell, PE  
 11/22/2021

DESCRIPTION



**CROSS SECTIONS - SR-8**  
**STA. 4311+00.00 TO STA. 4311+50.00**

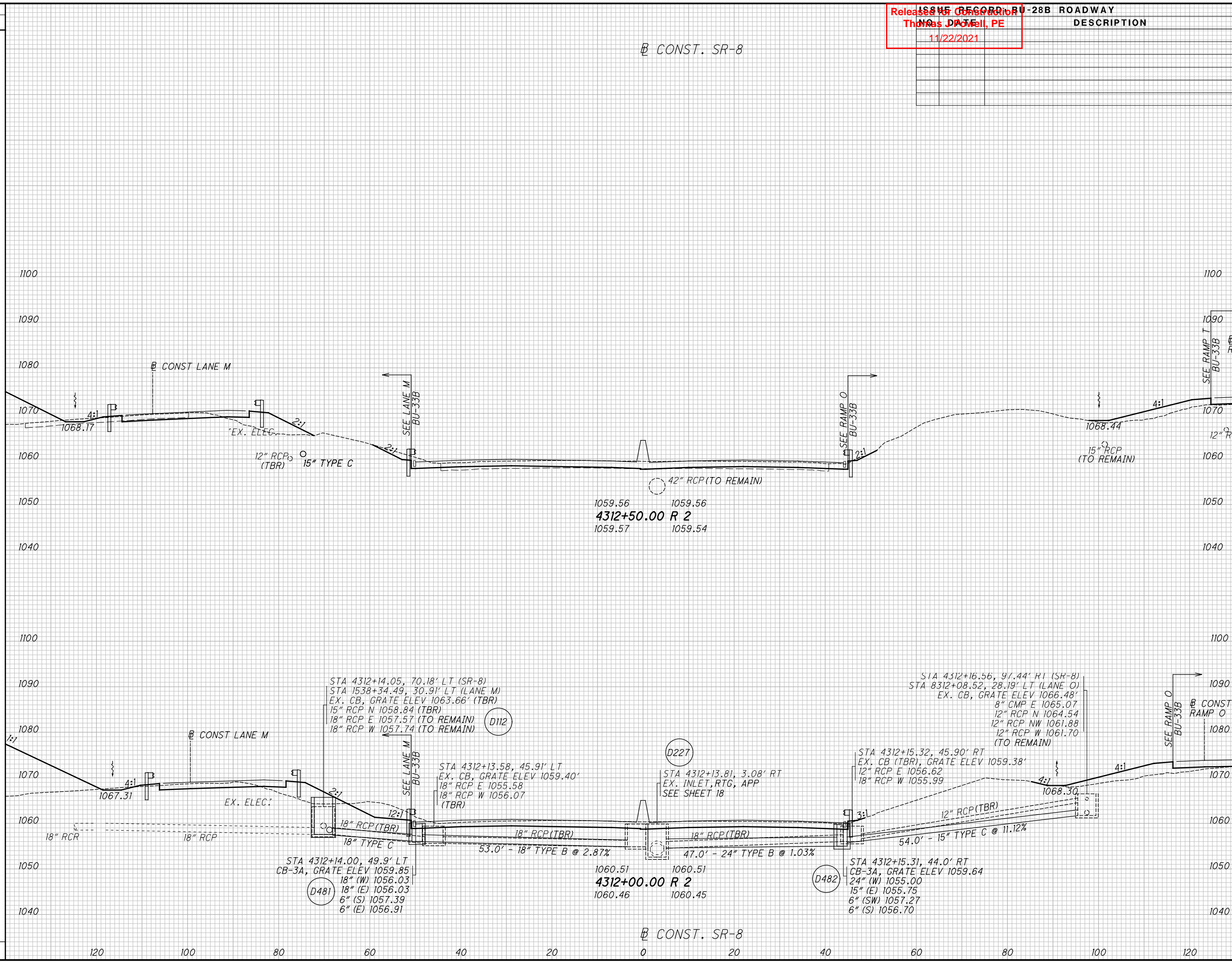
2021-11-18 - BU 28B - RFC  
**SUM - 76 / 77 8**  
**8.24 / 9.74 / 0.00**

44  
 86

SEEDING  
 END WIDTH SO. YDS.  
 120 100 80 60 40 20 0 20 40 60 80 100 120

ISSUE RECORD		BU-28B ROADWAY	END AREA	VOLUME	CALCULATED	CHECKED
NO.	DESCRIPTION	DATE	CUT	FILL	JTB	EAK
1	ISSUE FOR CONSTRUCTION	11/22/2021				
2						
3						
4						
5						
6						

Release of Construction  
 Thomas Powell, PE  
 11/22/2021



**CROSS SECTIONS - SR-8**  
**STA. 4312+00.00 TO STA. 4312+50.00**

2021-11-18 - BU 28B - RFC

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

45  
86

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SEEDING	
END WIDTH	SO. YDS.

ISSUE NO.	DESCRIPTION
1	Released for Construction
2	Thomas Powell, PE
3	11/22/2021

END AREA		VOLUME	
CUT	FILL	CUT	FILL

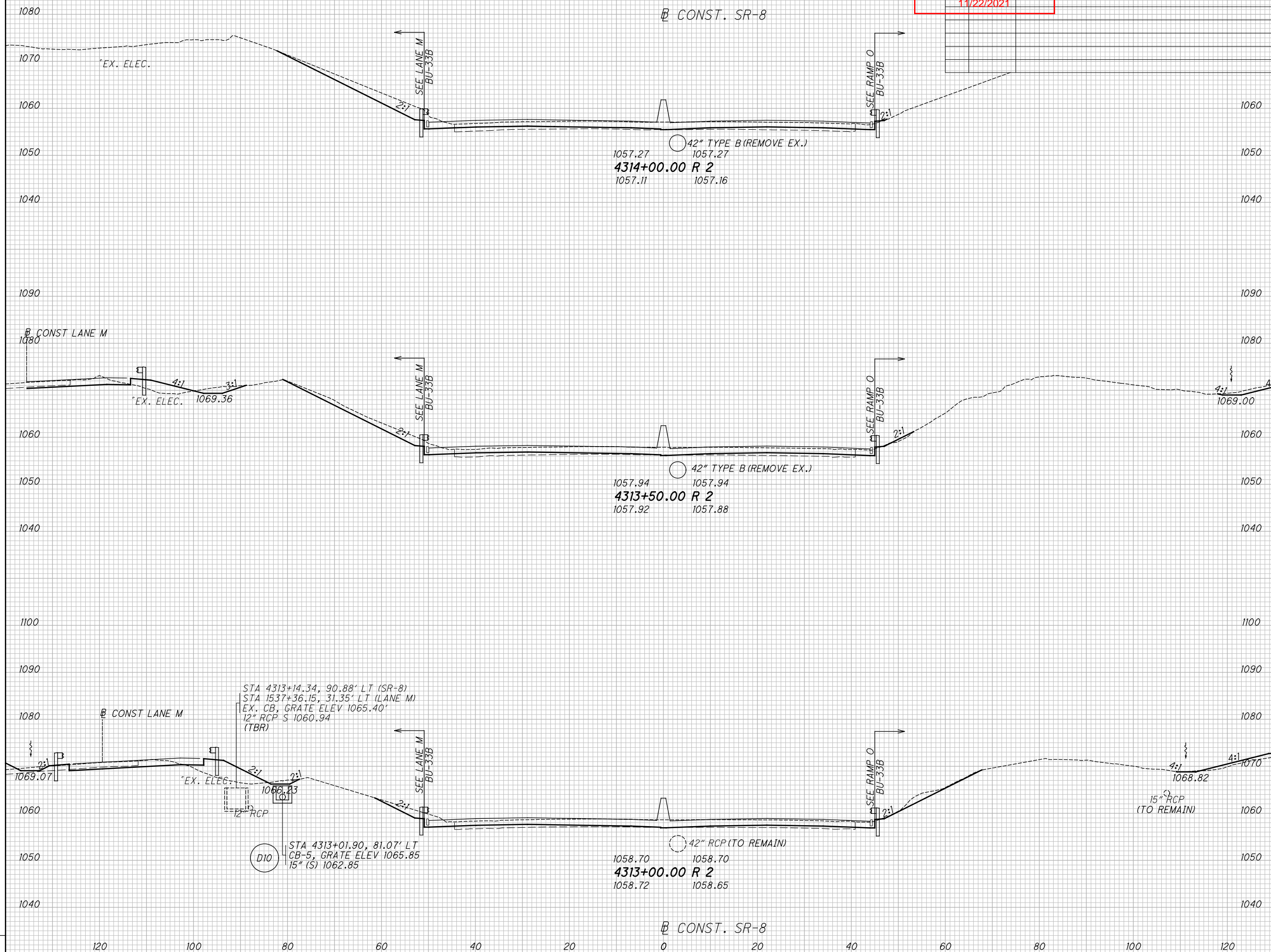
CALCULATED	CHECKED
JTB	EAK

**CROSS SECTIONS - SR-8**  
**STA. 4313+00.00 TO STA. 4314+00.00**

2021-11-18 - BU 28B - RFC

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

46
86

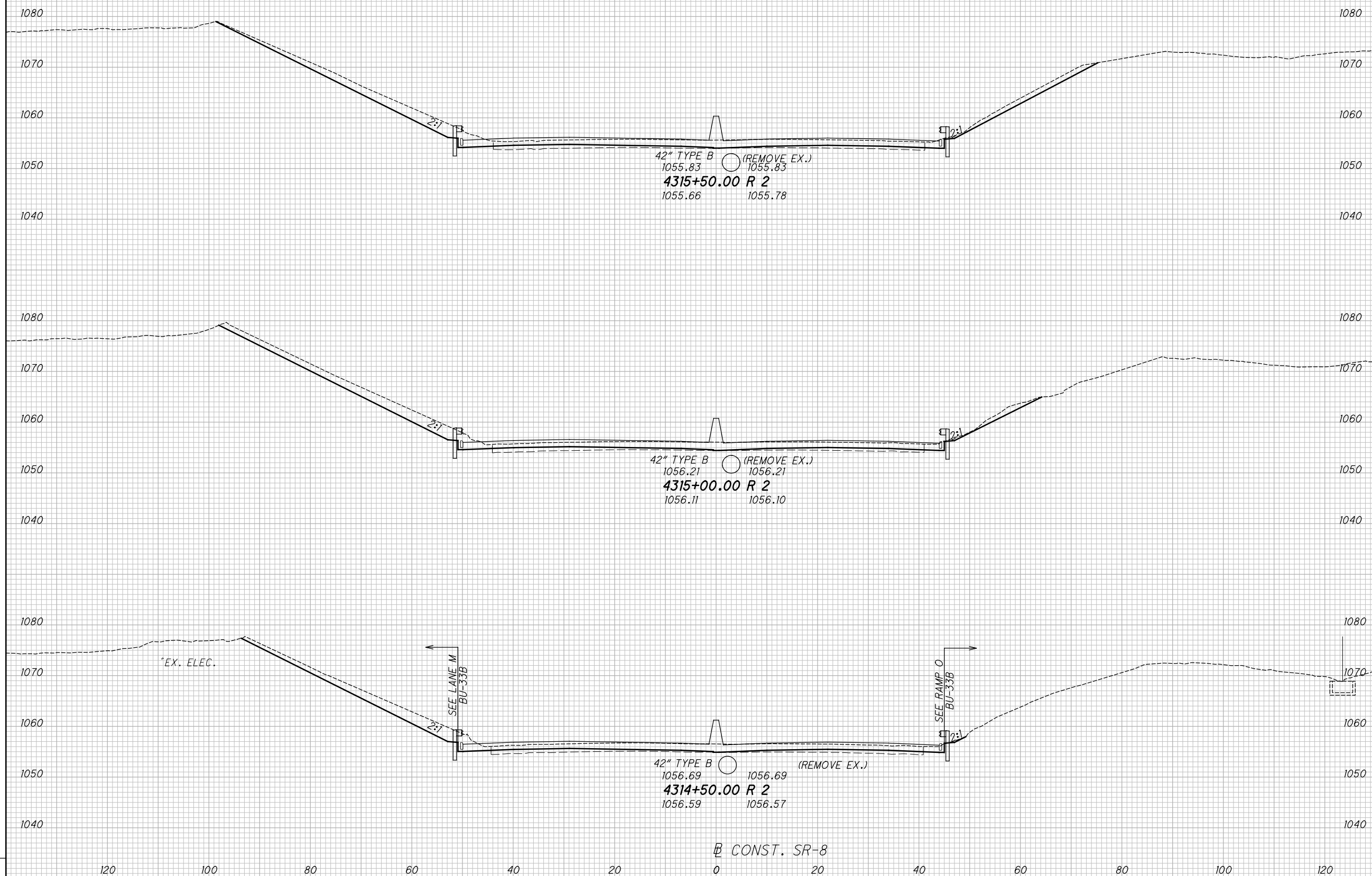


120 100 80 60 40 20 0 20 40 60 80 100 120

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ISSUE RECORD	BU-28B ROADWAY
Released for Construction	DESCRIPTION
Thomas Powell, PE	
11/22/2021	

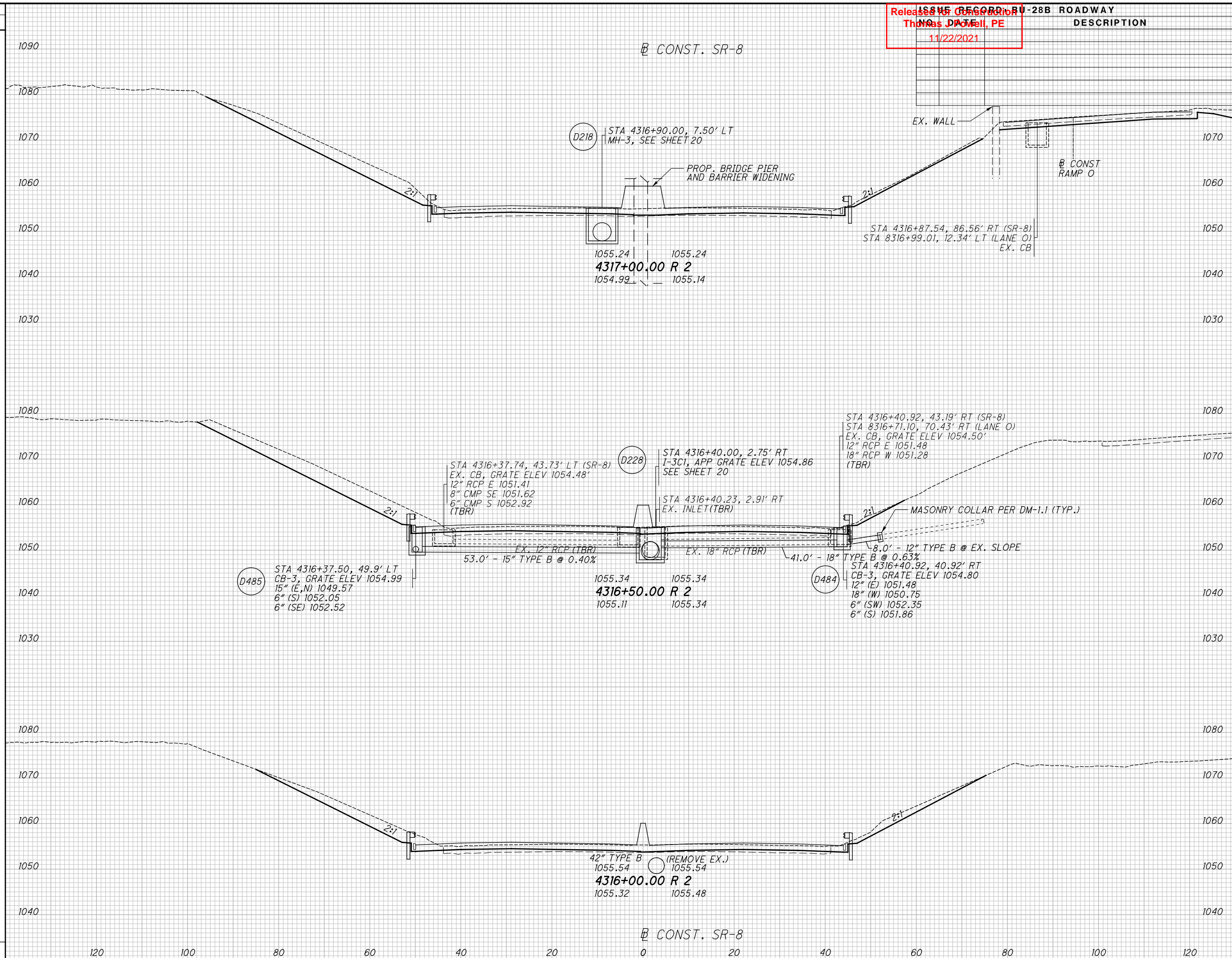
END AREA	VOLUME	CALCULATED	CHECKED						
				CUT	FILL	CUT	FILL	JTB	EAK
<b>CROSS SECTIONS - SR-8</b>									
<b>STA. 4314+50.00 TO STA. 4315+50.00</b>									
<b>2021-11-18 - BU 28B - RFC</b>									
<b>SUM - 76 / 77 8</b>									
<b>8.24 / 9.74 / 0.00</b>									
( 47 / 86 )									



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SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

ISSUE NO.	DESCRIPTION
1	RELEASE FOR CONSTRUCTION
2	THOMAS POWELL, PE
3	11/22/2021



**CROSS SECTIONS - SR-8**  
**STA. 4316+00.00 TO STA. 4317+00.00**  
 2021-11-18 - BU 28B - RFC  
**SUM - 76 / 77 8 / 11 / 0.00**  
**8.24 / 9.74 / 0.00**

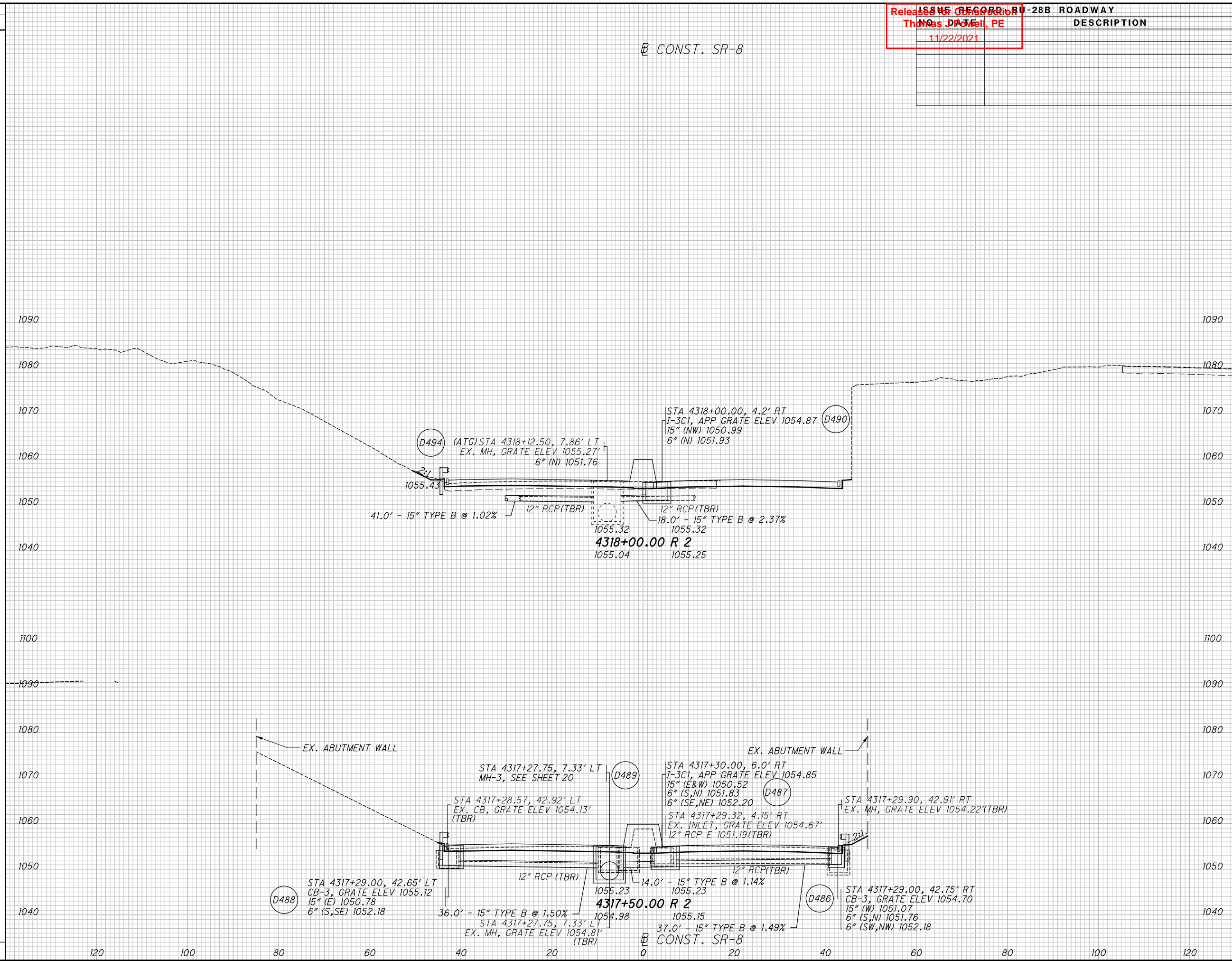
48  
86



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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUE NO.	DESCRIPTION
1	11/22/2021

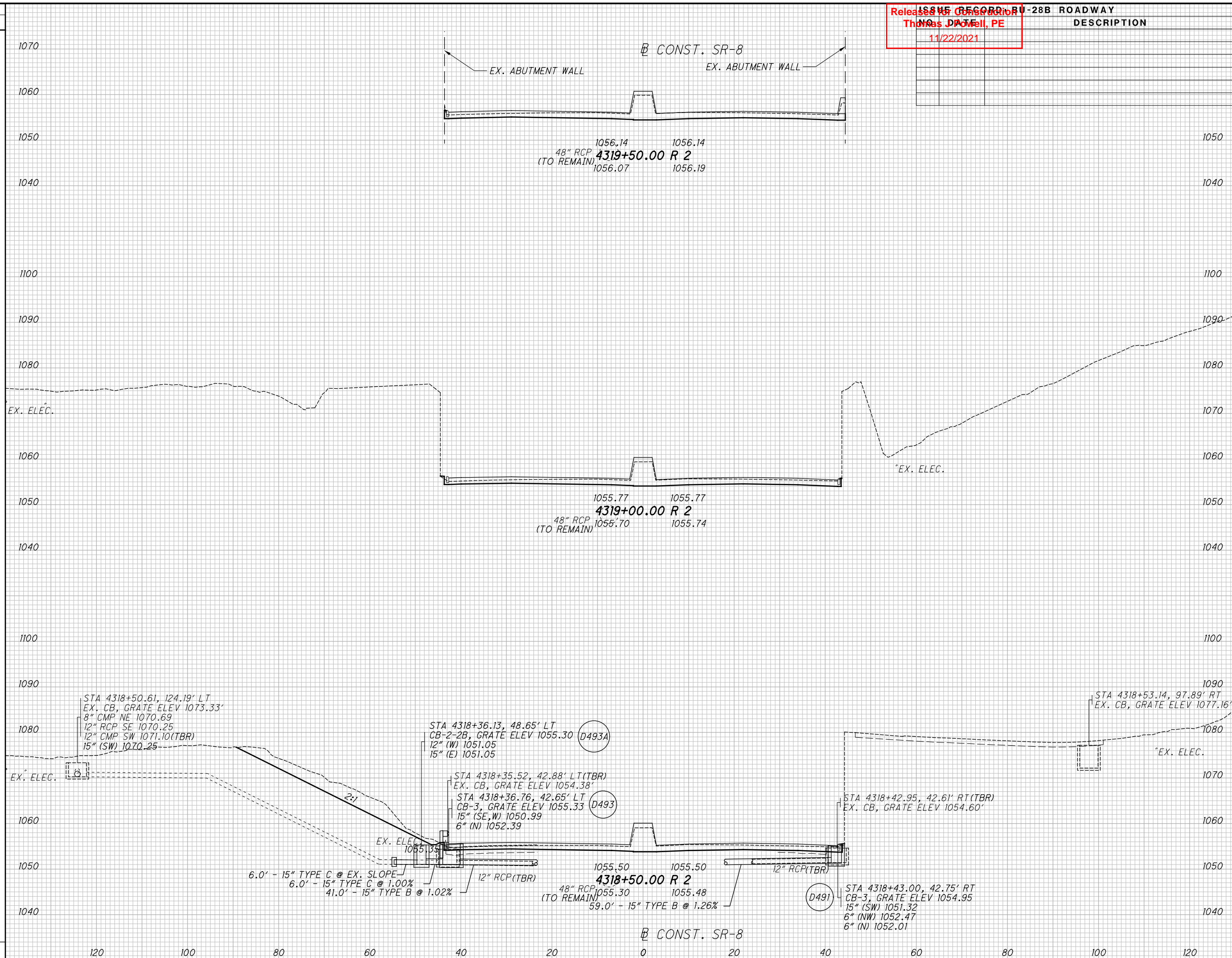


CROSS SECTIONS - SR-8  
 STA. 4317+50.00 TO STA. 4318+00.00  
 2021-11-18 - BU 28B - RFC  
 SUM-76 / 77 / 8  
 8.24 / 9.74 / 0.00  
 49  
 86

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

ISSUE NO.	DESCRIPTION
1	11/22/2021



**2021-11-18 - BU 28B - RFC**  
**SUM - 76 / 77 / 8**  
**8.24 / 9.74 / 0.00**  
**CROSS SECTIONS - SR-8**  
**STA. 4318+50.00 TO STA. 4319+50.00**

50  
86

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

ISSUE RECORD  
 Released for Construction  
 Thomas Powell, PE  
 11/22/2021

DESCRIPTION

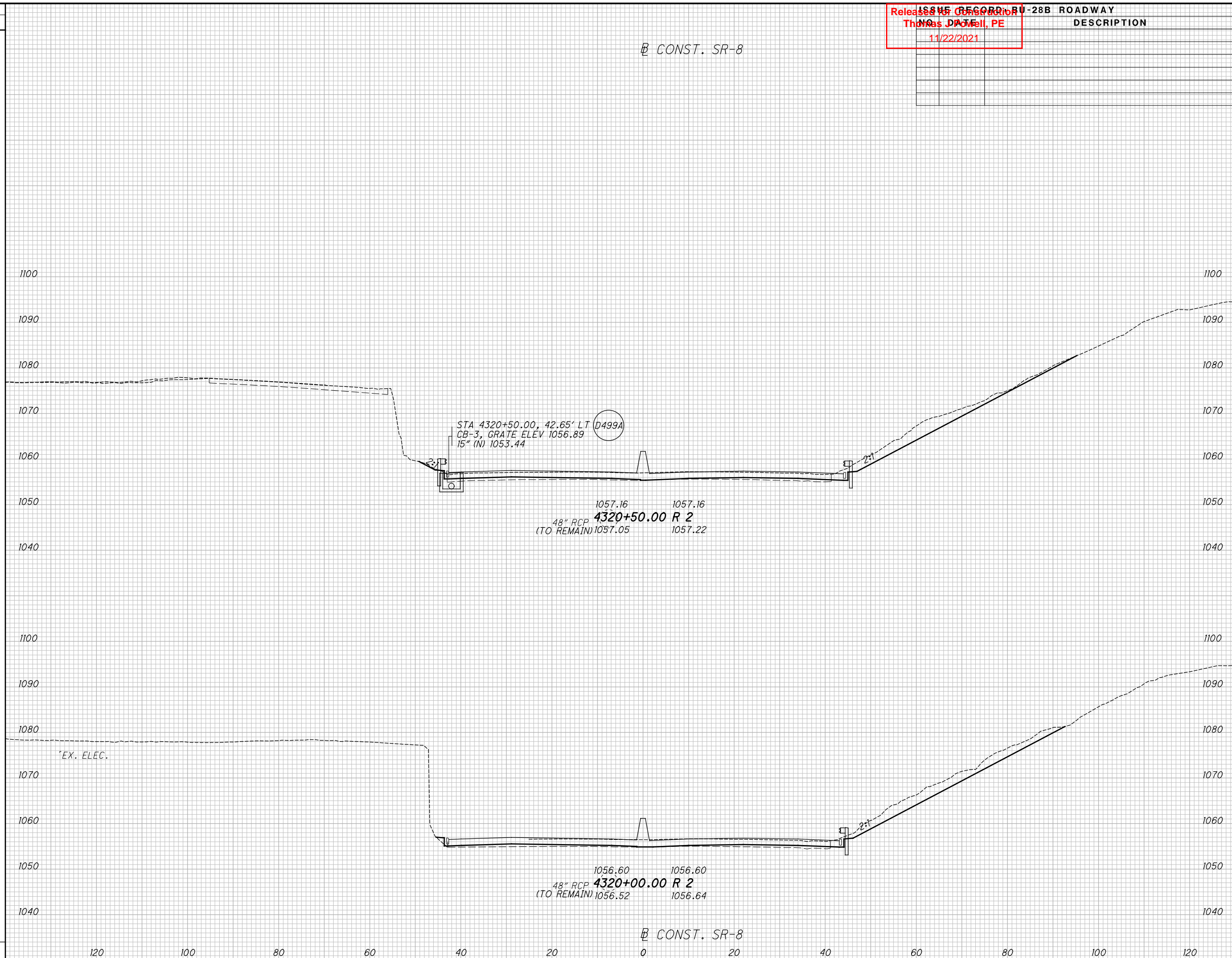
CALCULATED	JTB
	CHECKED
EAK	

**CROSS SECTIONS - SR-8**  
**STA. 4320+00.00 TO STA. 4320+50.00**

2021-11-18 - BU 28B - RFC

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

51  
86



CONST. SR-8

CONST. SR-8

STA 4320+50.00, 42.65' LT  
 CB-3, GRATE ELEV 1056.89  
 15" (N) 1053.44

1057.16 1057.16  
 48" RCP 4320+50.00 R 2  
 (TO REMAIN) 1057.05 1057.22

1056.60 1056.60  
 48" RCP 4320+00.00 R 2  
 (TO REMAIN) 1056.52 1056.64

\*EX. ELEC.

120 100 80 60 40 20 0 20 40 60 80 100 120

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ISSUE NO.	DESCRIPTION
1	11/22/2021

END AREA		VOLUME	
CUT	FILL	CUT	FILL

SEEDING	
END WIDTH	SO. YDS.



CONST. SR-8

CONST LANE S

12:1

2:1

2:1

1058.56      1058.56  
 4321+50.00 R 2  
 1058.56      1058.66



STA 4321+11.76, 81.10' LT (TBR)  
 EX. CB, GRATE ELEV 1074.25'  
 6" CPP SE 1071.20  
 12" RCP E 1071.18

STA 4321+10.18, 42.92' LT (TBR)  
 EX. INLET, GRATE ELEV 1057.13'  
 12" RCP W 1054.92  
 10" CMP SE 1053.96  
 12" RCP E 1053.95

STA 4321+10.00, 44.21' LT  
 CB-3A, GRATE ELEV 1057.78  
 15" (E,S) 1051.46  
 15" (W) 1054.01  
 6" (N) 1054.81

STA 4321+10.37, 7.63' LT  
 EX. MH(ATG), GRATE ELEV 1057.86'  
 48" RCP S 1044.53  
 48" RCP N 1044.50  
 12" RCP SE 1051.86 (TBR)  
 12" RCP W 1053.00 (TBR)  
 15" SE 1052.68  
 15" W 1051.09  
 6" (N) 1055.03

STA 4320+87.75, 2.72' RT  
 I-3C1, APP GRATE ELEV 1057.13  
 15" (NW,E) 1052.84  
 6" (N) 1054.19  
 6" (NE) 1054.73

STA 4320+87.19, 42.74' RT (TBR)  
 EX. CB, GRATE ELEV 1056.87'  
 12" RCP W 1053.47

STA 4320+88.04, 3.02' RT (TBR)  
 EX. INLET, GRATE ELEV 1057.35'  
 12" RCP E 1053.02  
 15" RCP N 1052.91  
 6" CMP W 1053.96

STA 4320+88.00, 44.00' RT  
 CB-3A, GRATE ELEV 1057.07  
 15" (W) 1053.07  
 6" (NW) 1054.73  
 6" (N) 1054.13

12" RCP (TBR)  
 37.0' - 15" TYPE B @ 1.0%  
 23.0' - 15" TYPE B @ 0.70%  
 47' - 15" TYPE B @ 0.5%

37.0' - 15" TYPE F,  
 70.05 TYPE C,  
 OR 107.21 @ 46.4%

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CONST. SR-8

CROSS SECTIONS - SR-8  
 STA. 4321+00.00 TO STA. 4321+50.00

2021-11-18 - BU 28B - RFC

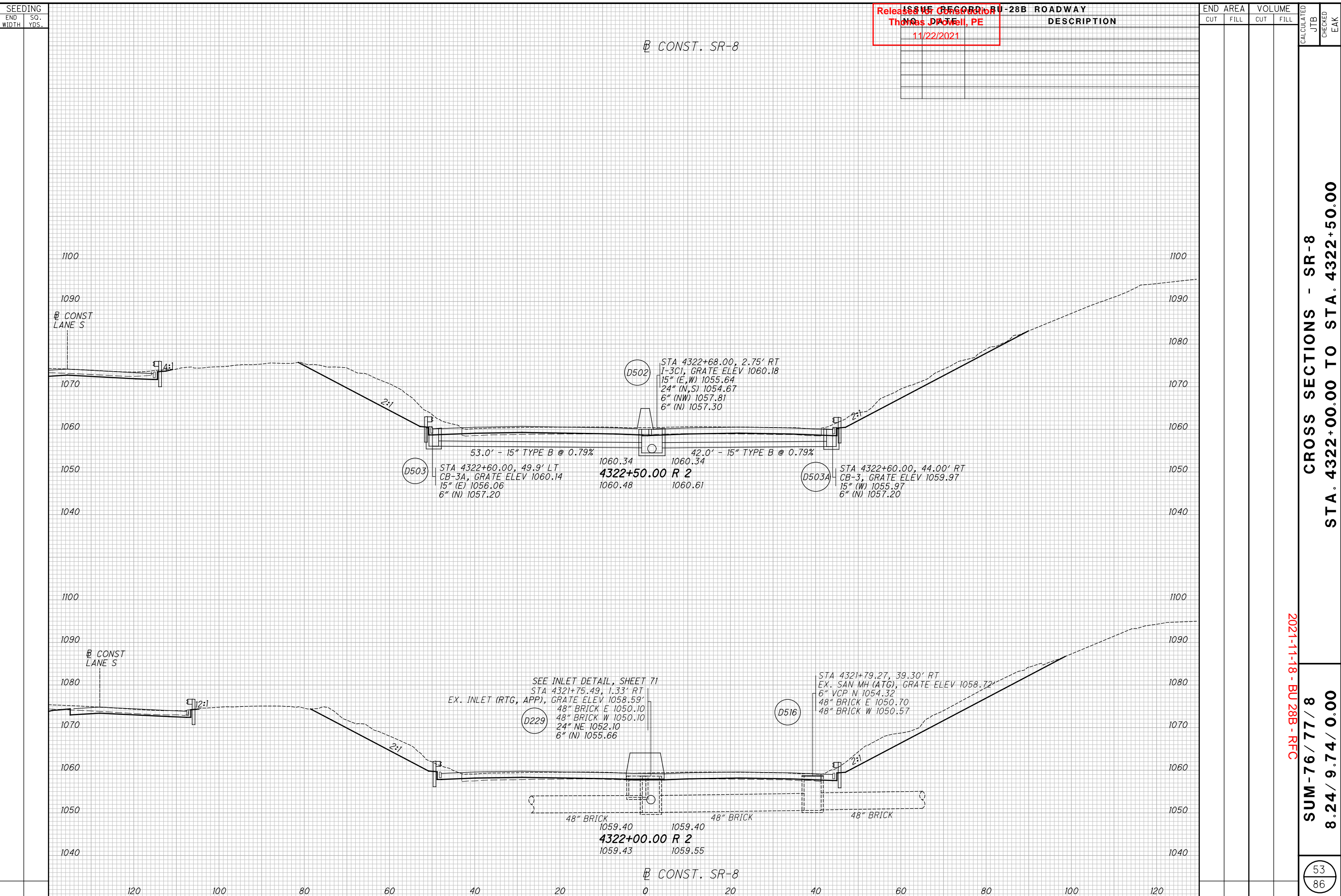
SUM-76 / 77 / 8  
 8.24 / 9.74 / 0.00

52  
 86

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	CHECKED
							EAK

ISSUE RECORD BU-28B ROADWAY  
 Released for Construction  
 Thomas Powell, PE  
 11/22/2021



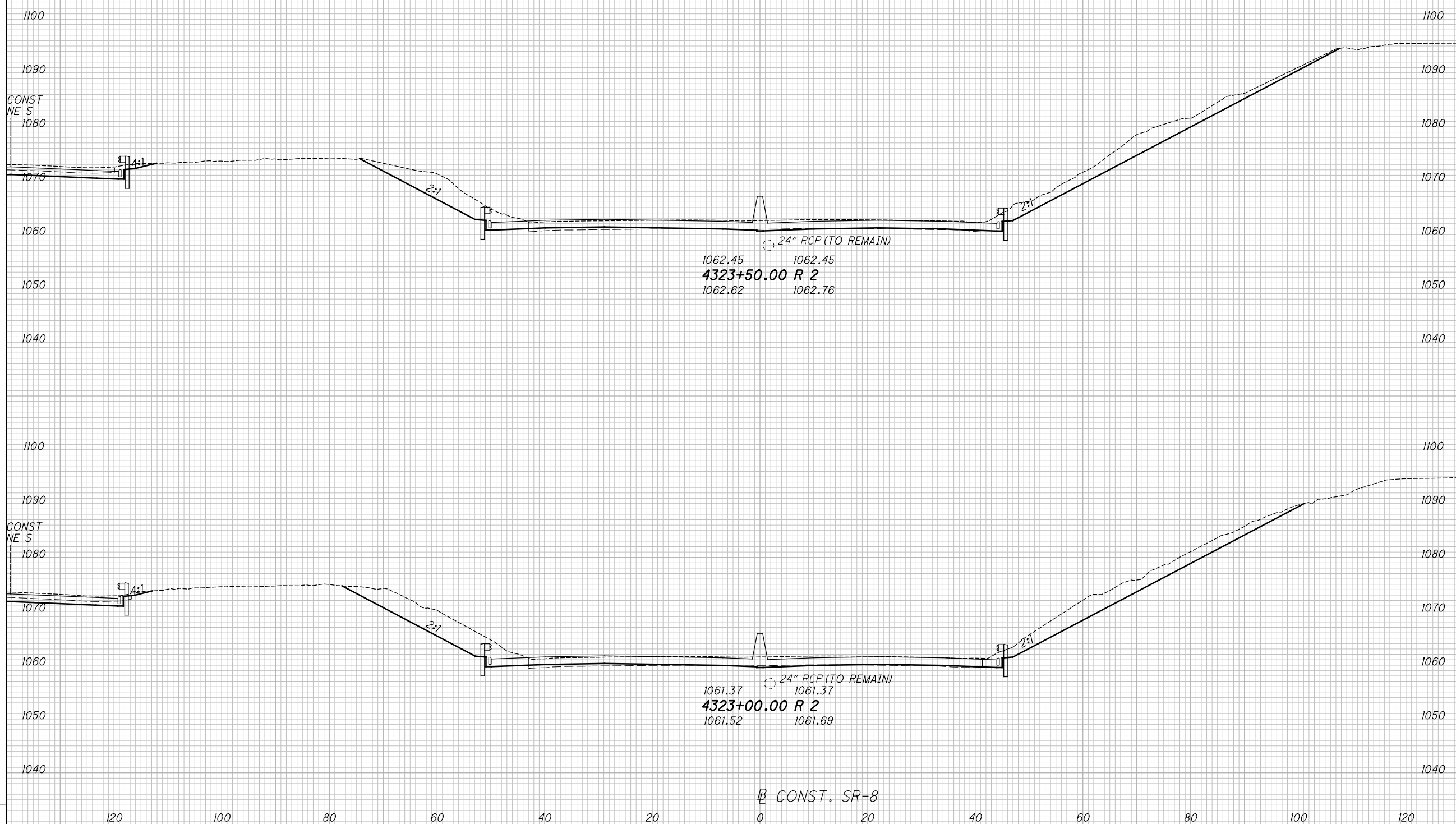
CROSS SECTIONS - SR-8  
 STA. 4322+00.00 TO STA. 4322+50.00  
 SUM-76 / 77 8  
 8.24 / 9.74 / 0.00  
 2021-11-18 - BU 28B - RFC  
 53 / 86

p:\VANVAIP\WINTO\parsons.com\Ohio State\Documents\08-Akron Beltway Rehab\0 - Design\02329\Roadway\Rehab\0 - Design\02329\_XS001\_BU28.dgn Sheet 11/18/2021 11:38:57 AM ekiste

SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUE NO.	DESCRIPTION
1	Released for Construction
2	Thomas Powell, PE
3	11/22/2021

CONST. SR-8



1062.45 1062.45  
**4323+50.00 R 2**  
 1062.62 1062.76

1061.37 1061.37  
**4323+00.00 R 2**  
 1061.52 1061.69

CONST. SR-8

**CROSS SECTIONS - SR-8**  
**STA. 4323+00.00 TO STA. 4323+50.00**

2021-11-18 - BU 28B - RFC

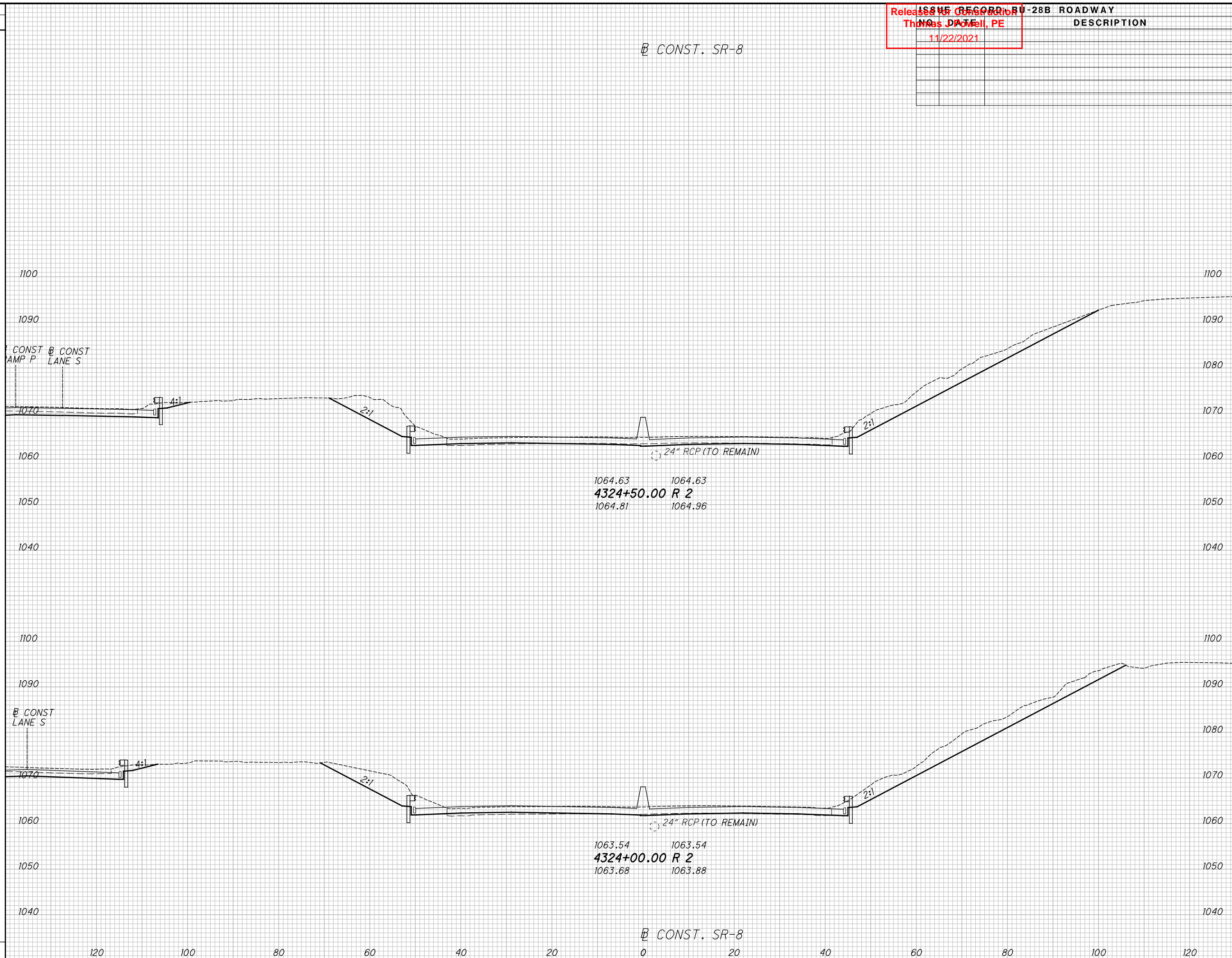
**SUM - 76 / 77 8**  
**8.24 / 9.74 / 0.00**

54  
86

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUE NO.	DESCRIPTION
1	Released for Construction
2	Thomas Powell, PE
3	11/22/2021

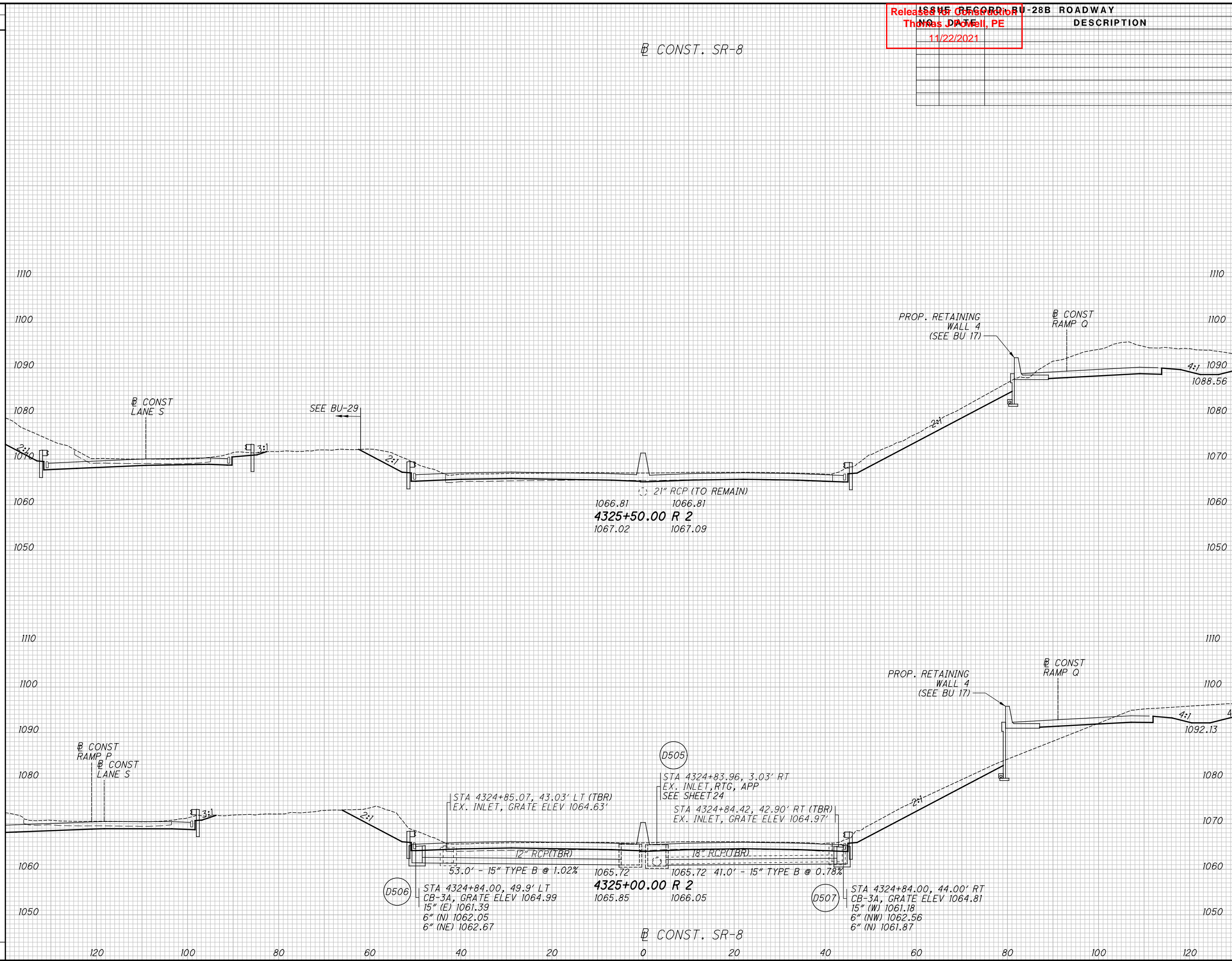


SUMMARY	
<b>CROSS SECTIONS - SR-8</b>	<b>STA. 4324+00.00 TO STA. 4324+50.00</b>
<b>2021-11-18 - BU 28B - RFC</b>	<b>8 / 77 / 8</b>
<b>8.24 / 9.74 / 0.00</b>	<b>55</b>
	<b>86</b>

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

ISSUE RECORD		BU-28B ROADWAY	
THOMAS POWELL, PE	DESCRIPTION		
11/22/2021			



**CROSS SECTIONS - SR-8**  
**STA. 4325+00.00 TO STA. 4325+50.00**

2021-11-18 - BU 28B - RFC

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

56  
86





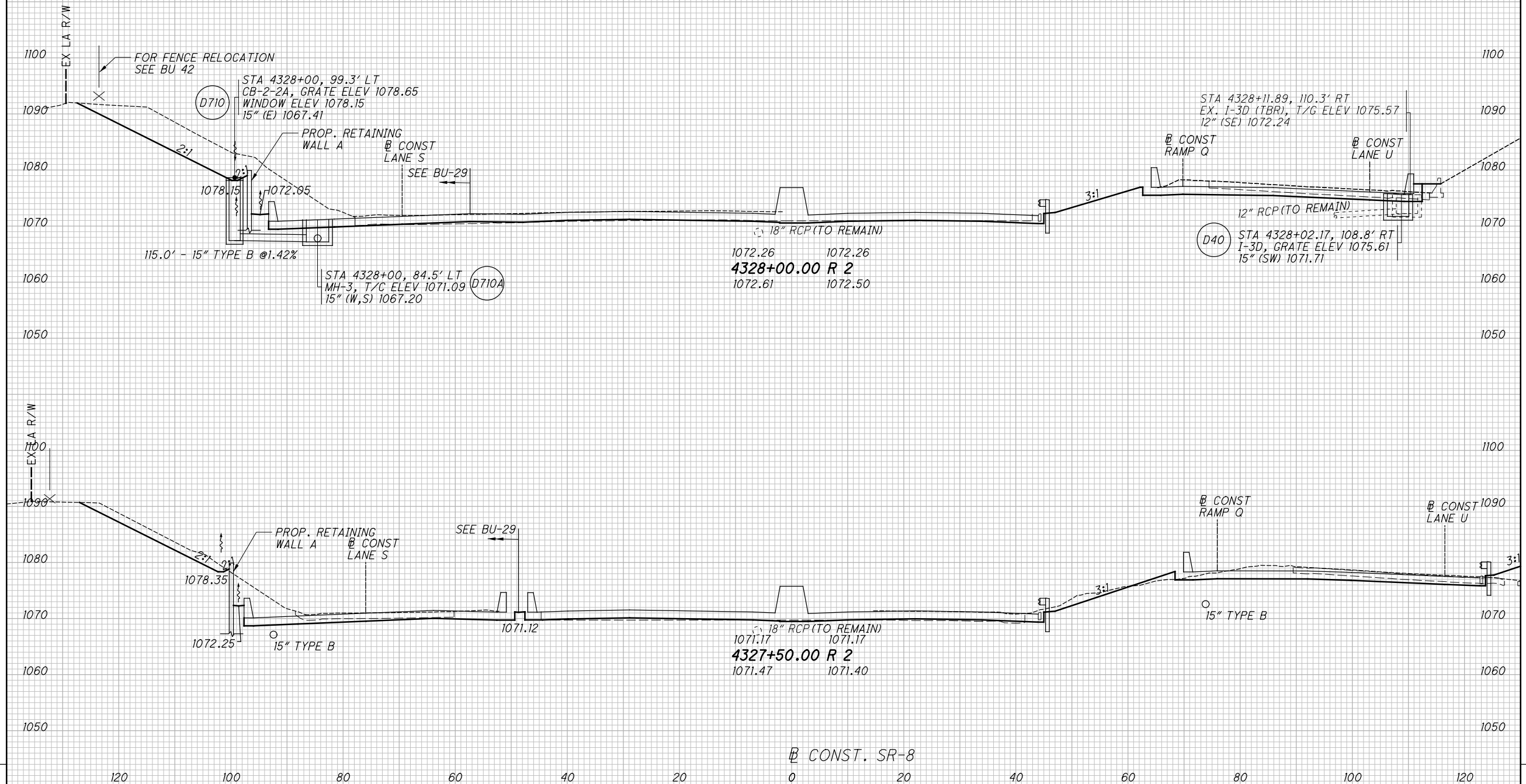
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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUED FOR CONSTRUCTION  
 Thomas Powell, PE  
 11/22/2021

DESCRIPTION

CONST. SR-8



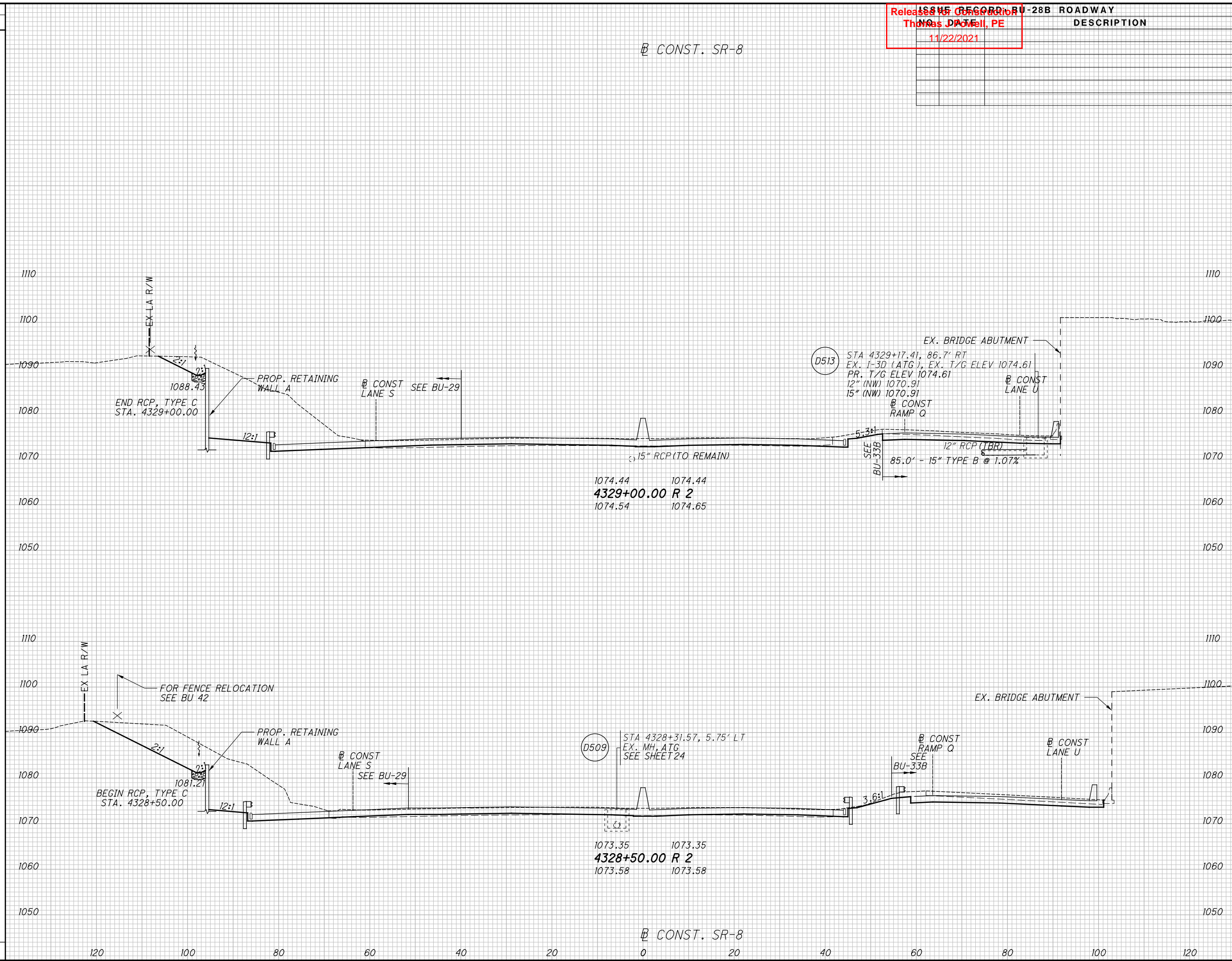
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 2021-11-18 - BU 28B - RFC  
**SUM-76 / 77 8**  
**8.24 / 9.74 / 0.00**  
 58  
 86

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUED FOR CONSTRUCTION  
 Thomas J. Powell, PE  
 11/22/2021

BU-28B ROADWAY DESCRIPTION



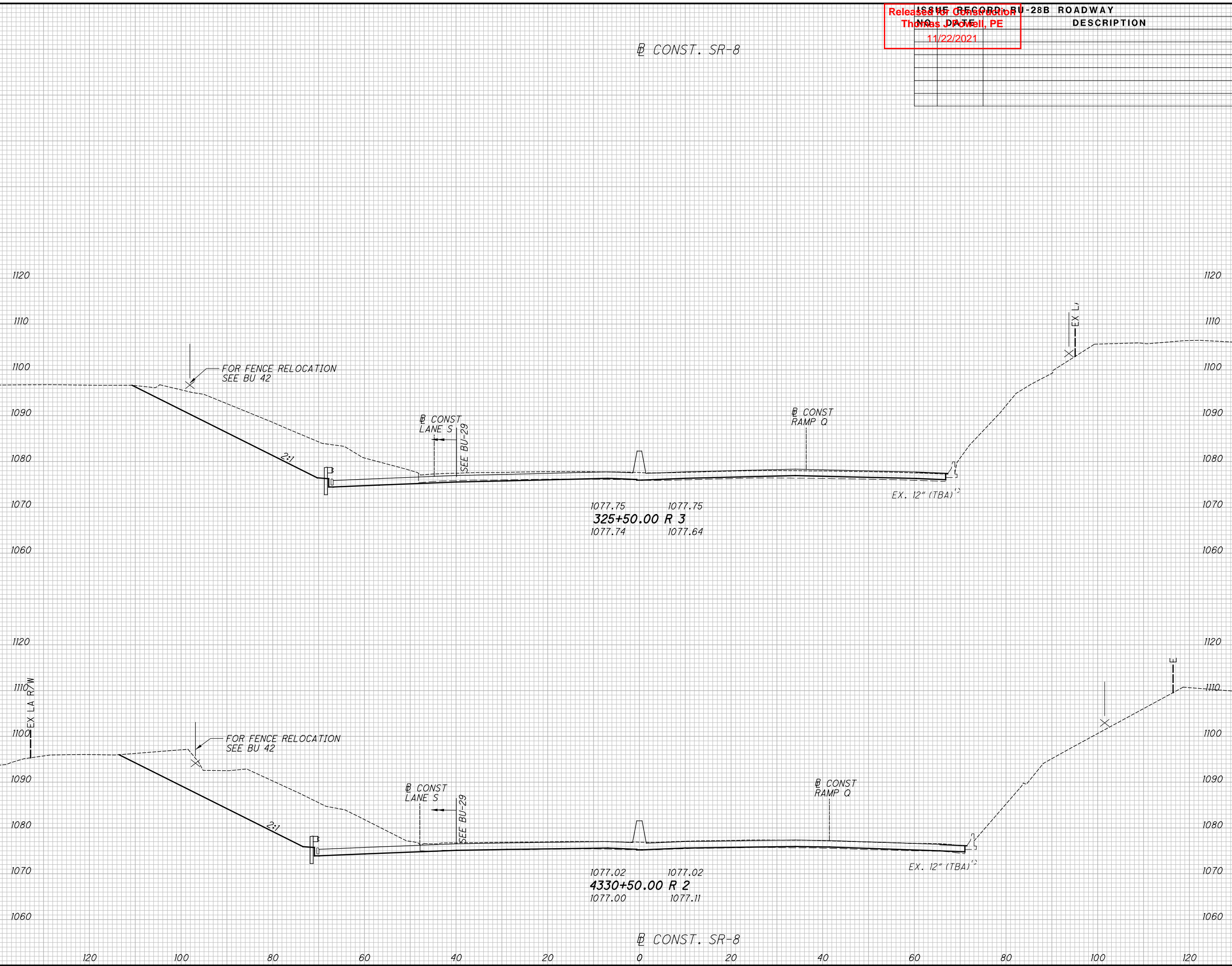
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2021-11-18 - BU 28B - RFC	
<b>SUM-76 / 77 / 8</b>	<b>8.24 / 9.74 / 0.00</b>
59 / 86	



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ISSUE RECORD	BU-28B ROADWAY
Released for Construction	DESCRIPTION
Thomas Powell, PE	
11/22/2021	

END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
<b>CROSS SECTIONS - SR-8</b>					
<b>STA. 4330+50.00 TO STA. 325+50.00</b>					
<b>SUM - 76 / 77 8</b>					
<b>8.24 / 9.74 / 0.00</b>					
<b>2021-11-18 - BU 28B - RFC</b>					
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61					
86					



CONST. SR-8

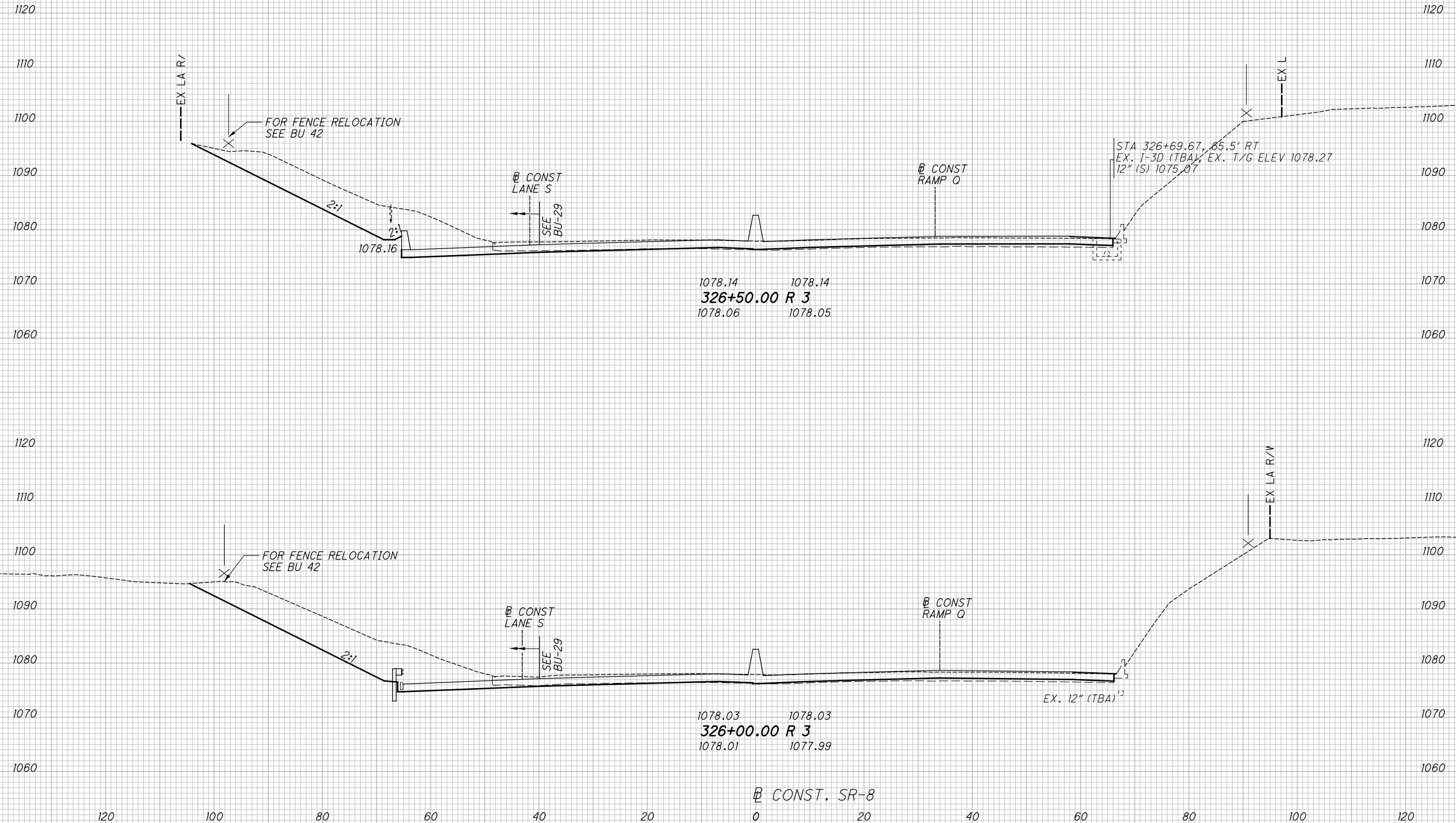
CONST. SR-8

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

Released for Construction  
 Thomas Powell, PE  
 11/22/2021

BU-28B ROADWAY  
 DESCRIPTION



CROSS SECTIONS - SR-8  
 STA. 326+00.00 TO STA. 326+50.00

2021-11-18 - BU 28B - RFC

SUM - 76 / 77 8  
 8.24 / 9.74 / 0.00

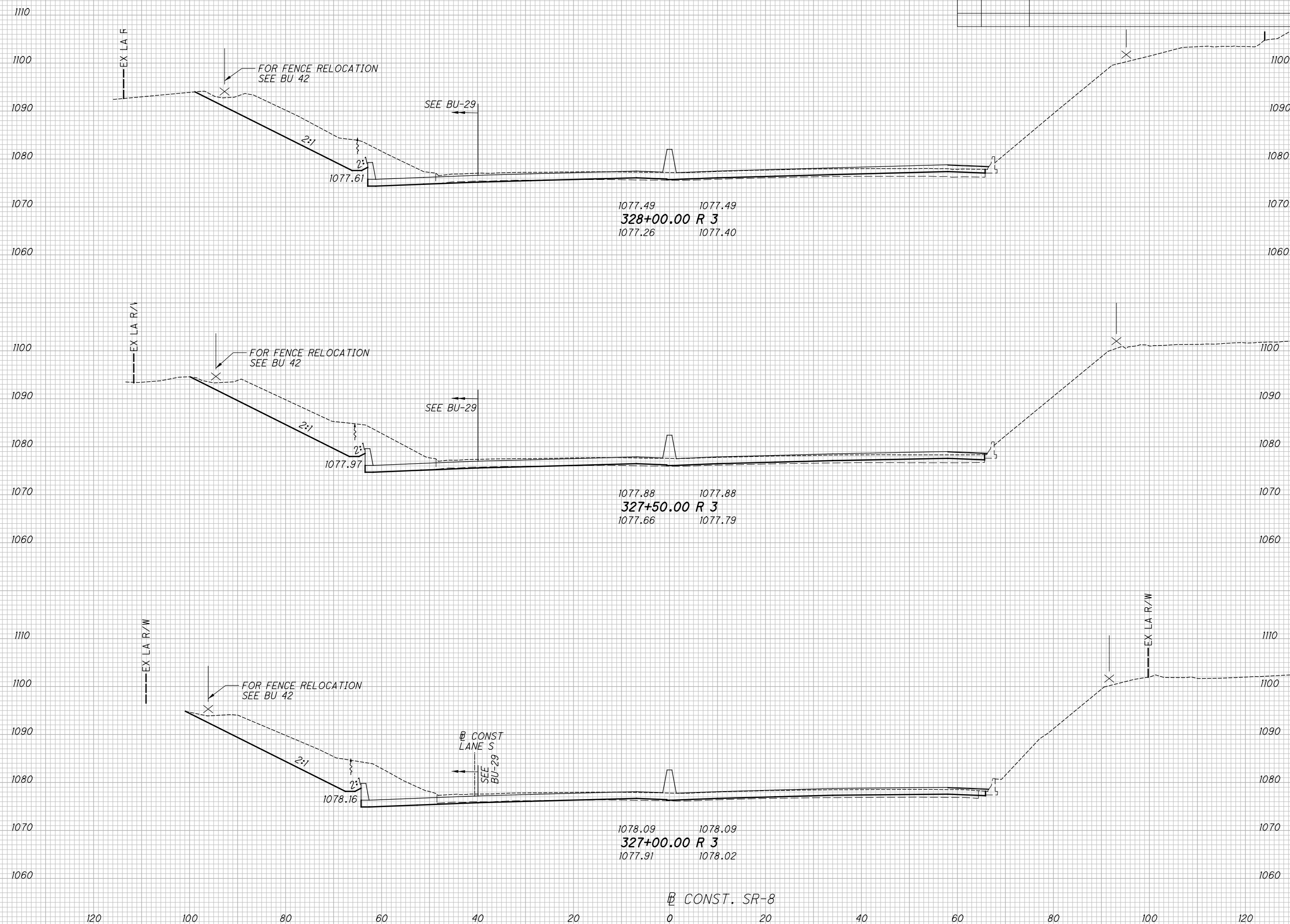
62  
 86

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUE RECORD BU-28B ROADWAY  
 Thomas Powell, PE  
 11/22/2021

DESCRIPTION	



CROSS SECTIONS - SR-8  
 STA. 327+00.00 TO STA. 328+00.00

2021-11-18 - BU 28B - RFC  
 SUM - 76 / 77 8  
 8.24 / 9.74 / 0.00

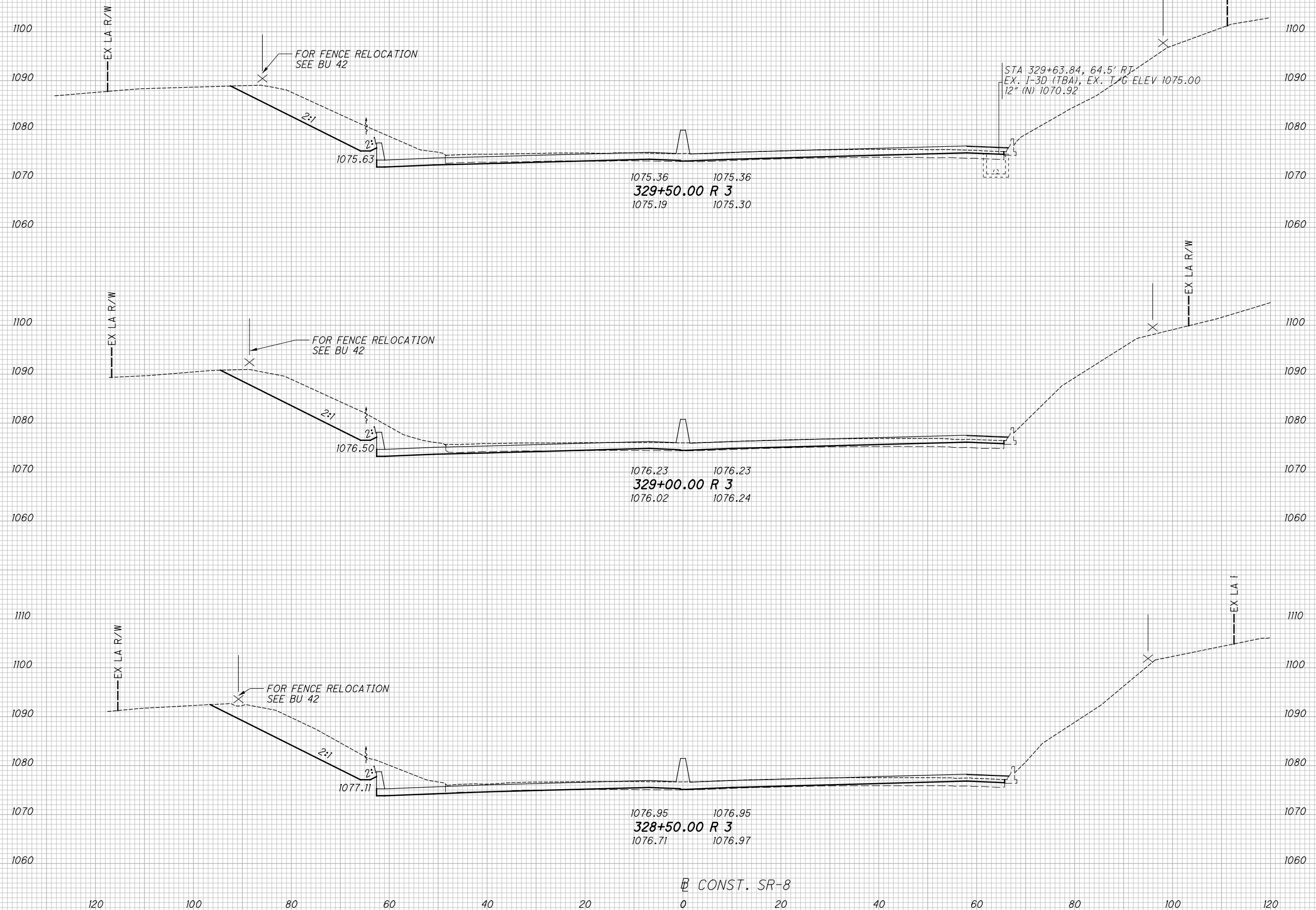
63  
86

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUE RECORD BU-28B ROADWAY  
 Released for Construction  
 Thomas Powell, PE  
 11/22/2021

DESCRIPTION



CROSS SECTIONS - SR-8  
 STA. 328+50.00 TO STA. 329+50.00

2021-11-18 - BU 28B - RFC

SUM-76 / 77 8  
 8.24 / 9.74 / 0.00

64  
 86



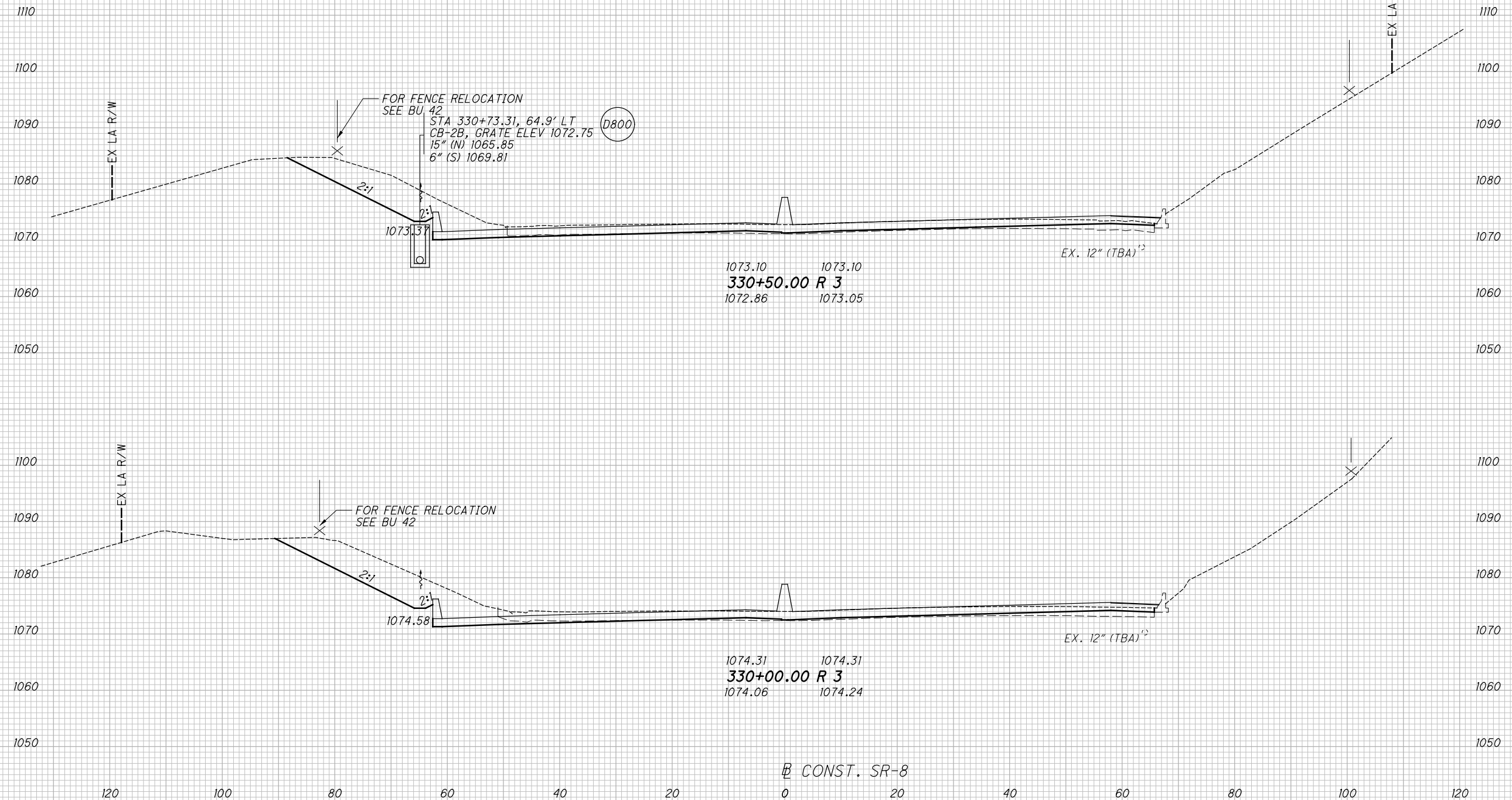
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SEEDING  
END SO.  
WIDTH YDS.

ISSUE	RECORDING	BU-28B ROADWAY
Released for Construction	Thomas Powell, PE	DESCRIPTION
11/22/2021		

END AREA		VOLUME		CALCULATED JTB	CHECKED EAK
CUT	FILL	CUT	FILL		

CONST. SR-8



CROSS SECTIONS - SR-8  
STA. 330+00.00 TO STA. 330+50.00

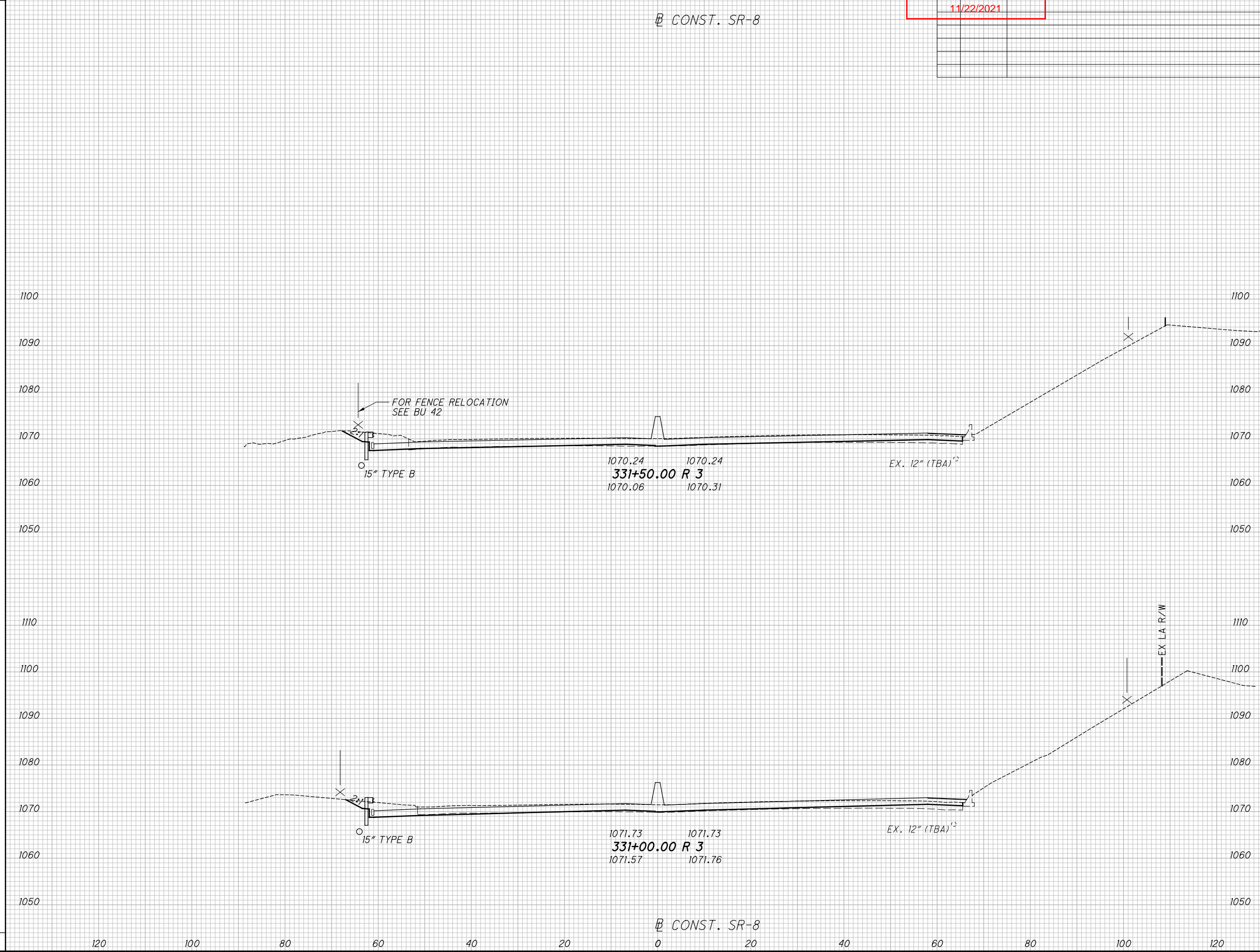
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SUM-76 / 77 8  
8.24 / 9.74 / 0.00

65  
86

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SEEDING		END WIDTH		SO. YDS.	
ISSUE RECORD		BU-28B ROADWAY			
Released for Construction		DESCRIPTION			
Thomas Powell, PE					
11/22/2021					

END AREA	CUT	FILL	VOLUME	CUT	FILL	CALCULATED	JTB	CHECKED	EAK
<b>CROSS SECTIONS - SR-8</b> <b>STA. 331+00.00 TO STA. 331+50.00</b>									
<b>SUM - 76 / 77 8</b> <b>8.24 / 9.74 / 0.00</b>									
2021-11-18 - BU 28B - RFC									
66 86									

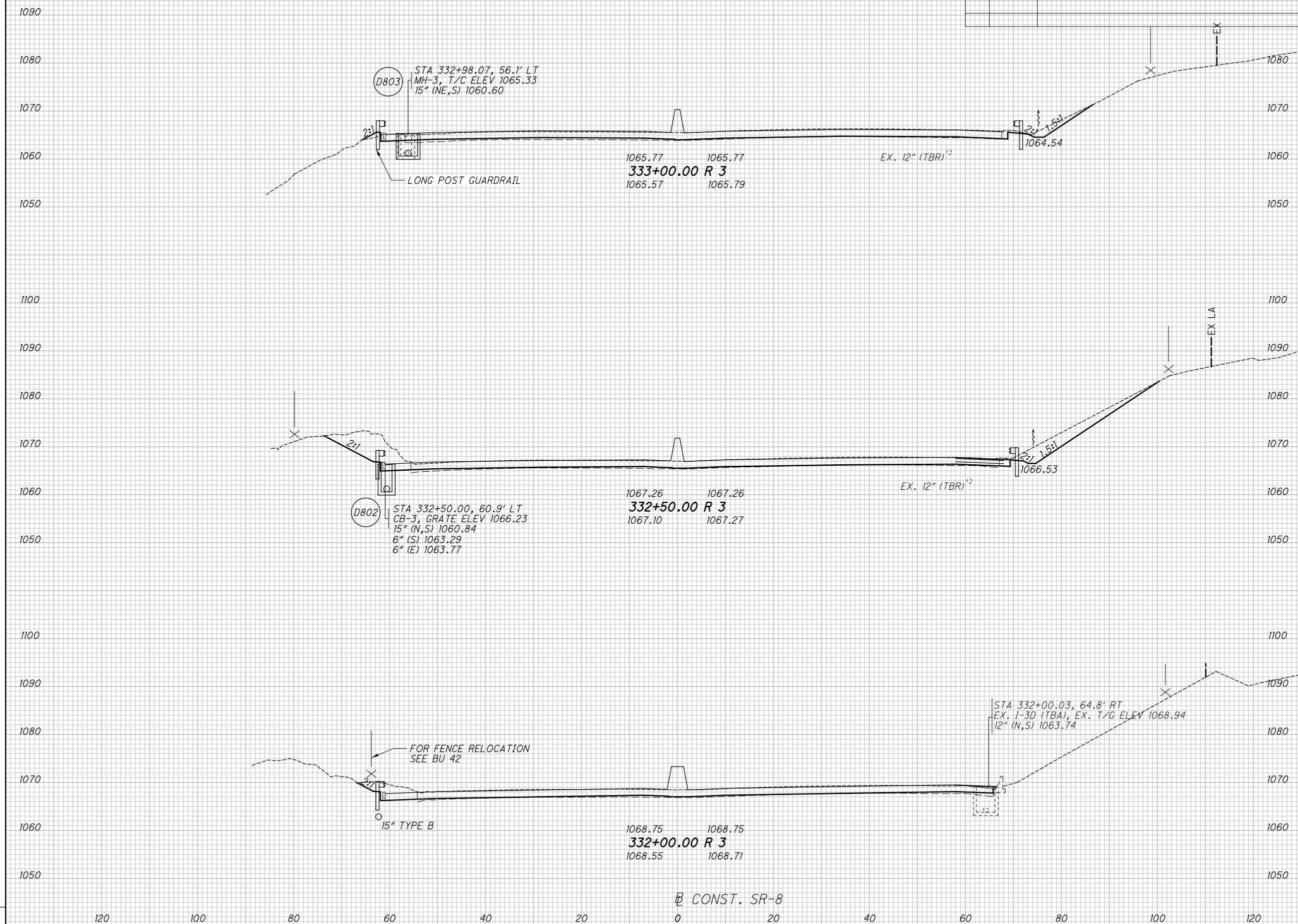


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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	CHECKED
							EAK

Released for Construction  
 Thomas J. Powell, PE  
 11/22/2021

BU-28B ROADWAY DESCRIPTION	



D803 STA 332+98.07, 56.1' LT  
 MH-3, T/C ELEV 1065.33  
 15" (NE,S) 1060.60

D802 STA 332+50.00, 60.9' LT  
 CB-3, GRATE ELEV 1066.23  
 15" (N,S) 1060.84  
 6" (S) 1063.29  
 6" (E) 1063.77

STA 332+00.03, 64.8' RT  
 EX. 1-3D (TBA), EX. T/G ELEV 1068.94  
 12" (N,S) 1063.74

FOR FENCE RELOCATION  
 SEE BU 42

1065.77 1065.77  
**333+00.00 R 3**  
 1065.57 1065.79

1067.26 1067.26  
**332+50.00 R 3**  
 1067.10 1067.27

1068.75 1068.75  
**332+00.00 R 3**  
 1068.55 1068.71

EX. 12" (TBR) 12

EX. 12" (TBR) 12

CONST. SR-8

CROSS SECTIONS - SR-8  
 STA. 332+00.00 TO STA. 333+00.00

2021-11-18 - BU 28B - RFC

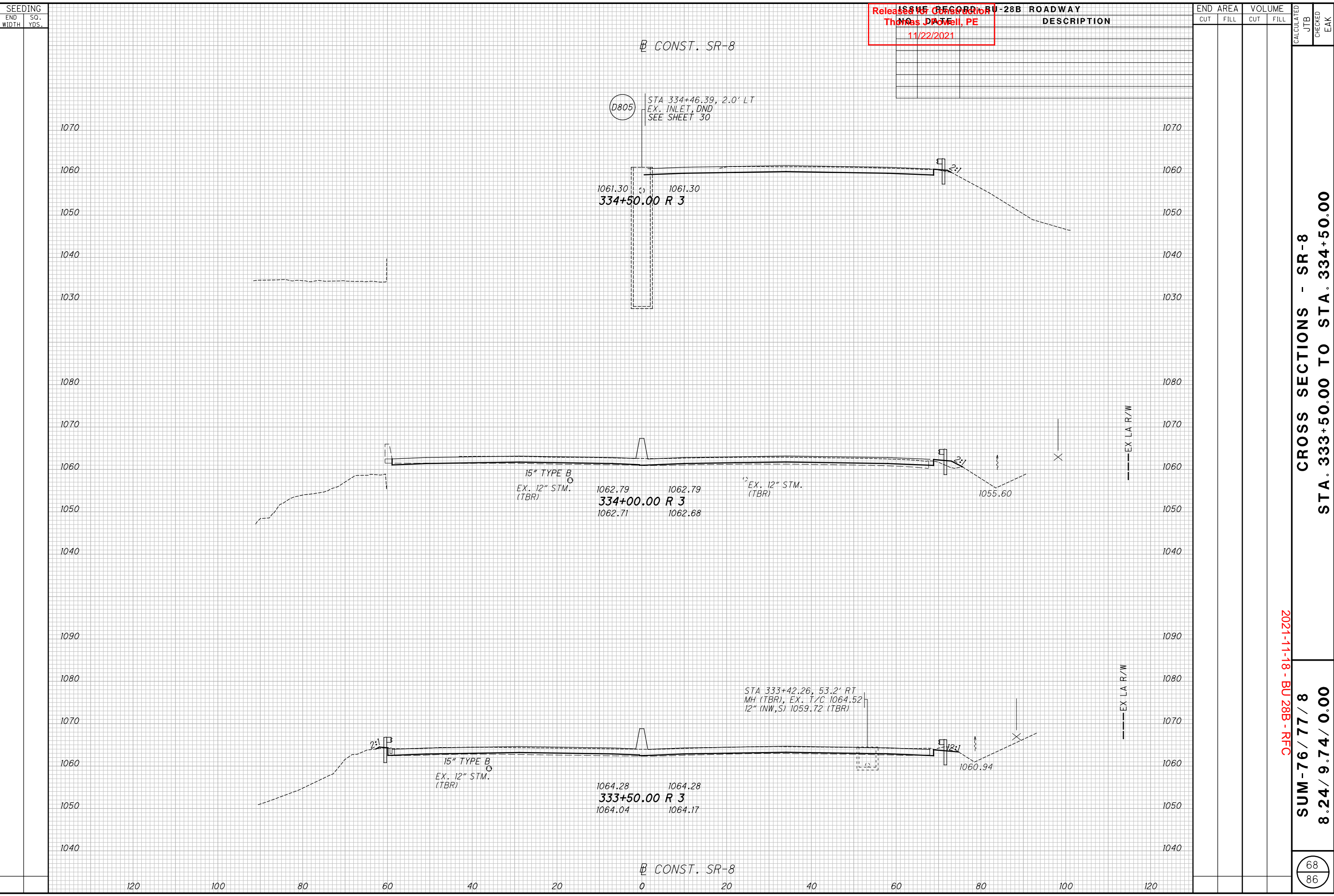
SUM-76 / 77 8  
 8.24 / 9.74 / 0.00

67  
 86

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	JTB	EAK

ISSUE RECORD  
 Released for Construction  
 Thomas J. Powell, PE  
 11/22/2021



**CROSS SECTIONS - SR-8**  
**STA. 333+50.00 TO STA. 334+50.00**

2021-11-18 - BU 28B - RFC

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

68  
86

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Released for Construction  
 Thomas J Powell, PE  
 11/22/2021

ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

CALCULATED  
 JTB  
 CHECKED  
 EAK

## SUPERELEVATION TABLE

*P.I. Station 328+39.86      Dc = 1° 00' 00"*

REMARKS	CENTERLINE CONTROL		LANE LINES				LANE LINES				LANE LINES				LANE LINES											
	STATION	PROFILE GRADE	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION				
NC	4329+04.77	1074.55	12.00		0.0160	0.19	1074.74	12.00		-0.0160	-0.19	1074.55														
	4329+25.00	1074.98	12.00		0.0160	0.19	1075.17	12.00		-0.0119	-0.14	1075.03														
	4329+50.00	1075.47	12.00		0.0160	0.19	1075.66	12.00		-0.0067	-0.08	1075.58														
	4329+75.00	1075.92	12.00		0.0160	0.19	1076.11	12.00		-0.0016	-0.02	1076.09														
GORE PT.	4329+82.16	1076.04	12.00		0.0160	0.19	1076.23	12.00	407.00	-0.0002	0.00	1076.23														
HF	4329+82.92	1076.05	12.00		0.0160	0.19	1076.24	12.00		0.0000	0.00	1076.24														
	4330+00.00	1076.33	12.00		0.0160	0.19	1076.52	12.00		0.0035	0.04	1076.56														
	4330+25.00	1076.69	12.00		0.0160	0.19	1076.88	12.00		0.0086	0.10	1076.99														
	4330+50.00	1077.02	12.00		0.0160	0.19	1077.21	12.00	0.0137	0.16	1077.38															
RC	4330+61.06	1077.15	12.00		0.0160	0.19	1077.34	12.00	0.0160	0.19	1077.53															
	4330+75.00	1077.30	12.00		0.0179	0.21	1077.51	12.00	0.0179	0.21	1077.73															
STA EQ, PC	4330+75.71	1077.31	12.00	305.87	0.0180	0.22	1077.53	12.00	305.87	0.0180	0.22	1077.74														
STA EQ, PC	325+00.64	1077.31	12.00		0.0180	0.22	1077.53	12.00		0.0180	0.22	1077.74														
	325+25.00	1077.55	12.00		0.0213	0.26	1077.81	12.00		0.0213	0.26	1078.06														
	325+50.00	1077.75	12.00		0.0247	0.30	1078.05	12.00		0.0247	0.30	1078.34														
FS	325+66.74	1077.86	12.00		0.0270	0.32	1078.18	12.00		0.0270	0.32	1078.51														
FS	330+82.39	1072.23	12.00	222.00	0.0270	0.32	1072.56	12.00	222.00	0.0270	0.32	1072.88	12.00	222.00	0.0270	0.32	1073.21	12.00	222.00	0.0270	0.32	1073.53				
	331+00.00	1071.73	12.00		0.0253	0.30	1072.03	12.00		0.0253	0.30	1072.34	12.00		0.0253	0.30	1072.64	12.00		0.0253	0.30	1072.95				
	331+25.00	1070.99	12.00		0.0230	0.28	1071.26	12.00		0.0230	0.28	1071.54	12.00		0.0230	0.28	1071.82	12.00		0.0230	0.28	1072.09				
	331+50.00	1070.24	12.00		0.0207	0.25	1070.49	12.00		0.0207	0.25	1070.74	12.00		0.0207	0.25	1070.99	12.00		0.0207	0.25	1071.23				
	331+75.00	1069.50	12.00	0.0183	0.22	1069.72	12.00	0.0183	0.22	1069.94	12.00	0.0183	0.22	1070.16	12.00	0.0183	0.22	1070.38								
PT	331+78.29	1069.40	12.00		0.0180	0.22	1069.62	12.00		0.0180	0.22	1069.83	12.00		0.0180	0.22	1070.05	12.00		0.0180	0.22	1070.26				
RC	331+99.60	1068.77	12.00		0.0160	0.19	1068.96	12.00		0.0160	0.19	1069.15	12.00		0.0160	0.19	1069.34	12.00		0.0160	0.19	1069.53				
	332+00.00	1068.75	12.00		0.0160	0.19	1068.95	12.00		0.0160	0.19	1069.14	12.00		0.0159	0.19	1069.33	12.00		0.0159	0.19	1069.52				
	332+25.00	1068.01	12.00		0.0160	0.19	1068.20	12.00		0.0160	0.19	1068.39	12.00		0.0112	0.13	1068.53	12.00		0.0112	0.13	1068.66				
	332+50.00	1067.26	12.00		0.0160	0.19	1067.46	12.00		0.0160	0.19	1067.65	12.00		0.0065	0.08	1067.73	12.00		0.0065	0.08	1067.80				
	332+75.00	1066.52	12.00		0.0160	0.19	1066.71	12.00		0.0160	0.19	1066.90	12.00		0.0018	0.02	1066.92	12.00		0.0018	0.02	1066.95				
HF	332+84.85	1066.22	12.00		0.0160	0.19	1066.42	12.00		0.0160	0.19	1066.61	12.00		0.0000	0.00	1066.61	12.00		0.0000	0.00	1066.61				
	333+00.00	1065.77	12.00		0.0160	0.19	1065.97	12.00		0.0160	0.19	1066.16	12.00		-0.0028	-0.03	1066.12	12.00		-0.0028	-0.03	1066.09				
	333+25.00	1065.03	12.00		0.0160	0.19	1065.22	12.00		0.0160	0.19	1065.41	12.00		-0.0075	-0.09	1065.32	12.00		-0.0075	-0.09	1065.23				
	333+50.00	1064.28	12.00		0.0160	0.19	1064.48	12.00		0.0160	0.19	1064.67	12.00		-0.0122	-0.15	1064.52	12.00		-0.0122	-0.15	1064.37				
NC	333+70.10	1063.68	12.00		0.0160	0.19	1063.88	12.00		0.0160	0.19	1064.07	12.00		-0.0160	-0.19	1063.88	12.00		-0.0160	-0.19	1063.68				

SUPERELEVATION TABLE - SR 8 NB

2021-11-18 - BU 28B - RFC

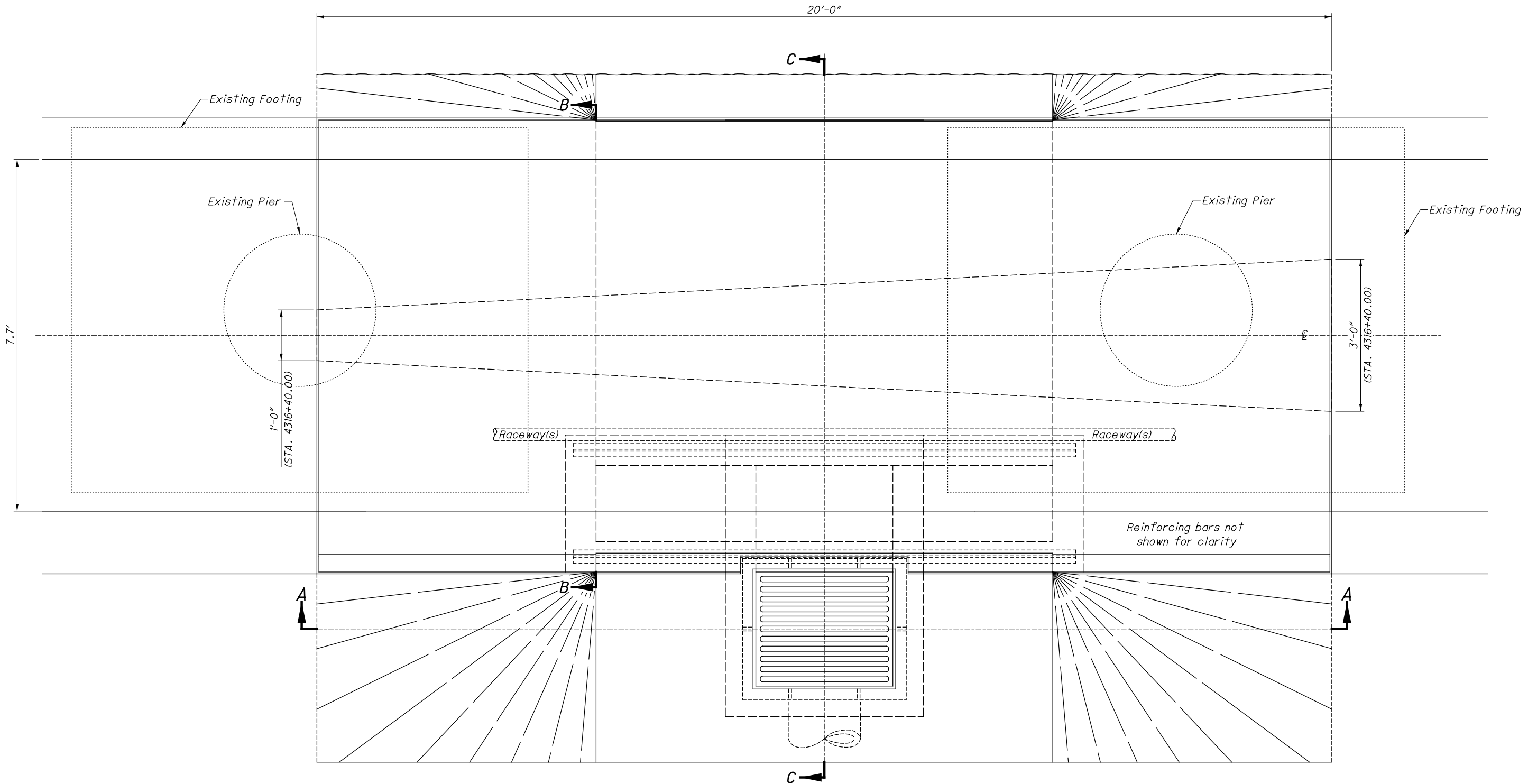
SUM - 76 / 77 / 8 -  
 8.24 / 9.74 / 0.00



Released for Construction  
 Thomas J Powell, PE  
 11/22/2021

CALCULATED	EAK
	CHECKED
	KC

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**PLAN VIEW - STA. 4317+30.00**  
 (OTHERS SIMILAR, WITHOUT EX. PIERS)

NOTES:  
 1. SECTION CUT LOCATIONS, NOTE REFERENCES, AND OTHER DETAILED INFORMATION NOT SHOWN ON THIS SHEET CAN BE FOUND ON ODOT SCD I-2.2.

2. SEE SHEETS 72 - 74 FOR ADDITIONAL INFORMATION.

**INLET DETAILS - I-3 C1, AS PER PLAN**

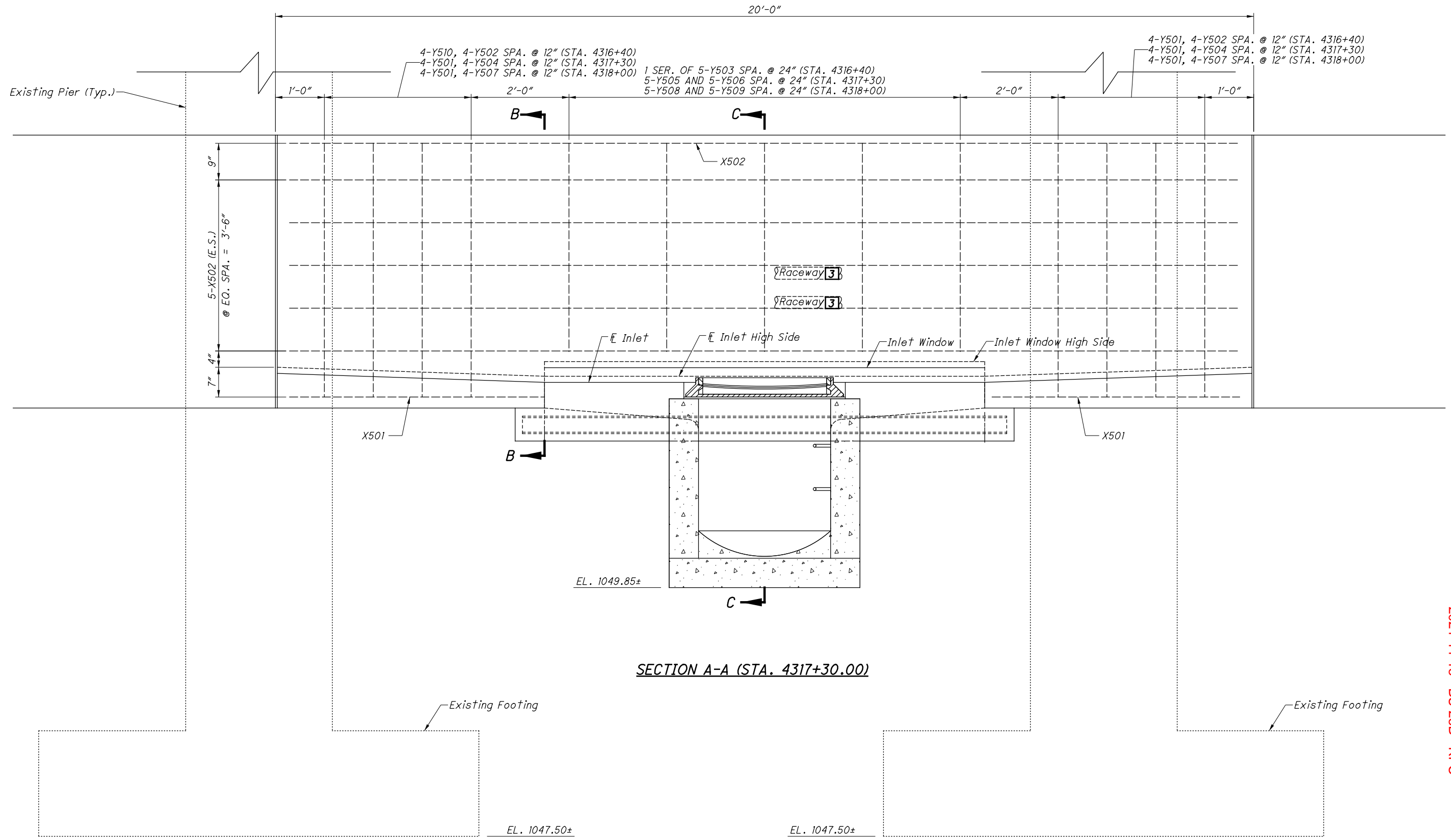
2021-11-18 - BU 288 - RFC

SUM-76/77-8-  
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Released for Construction  
Thomas J Powell, PE  
11/22/2021

NOTES:  
1. SECTION CUT LOCATIONS, NOTE REFERENCES, AND OTHER DETAILED INFORMATION NOT SHOWN ON THIS SHEET CAN BE FOUND ON ODOT SCD I-2.2  
2. SEE SHEETS 71, 73, & 74 FOR ADDITIONAL INFORMATION.



CALCULATED  
EAK  
CHECKED  
KC

INLET DETAILS - I-3 C1, AS PER PLAN

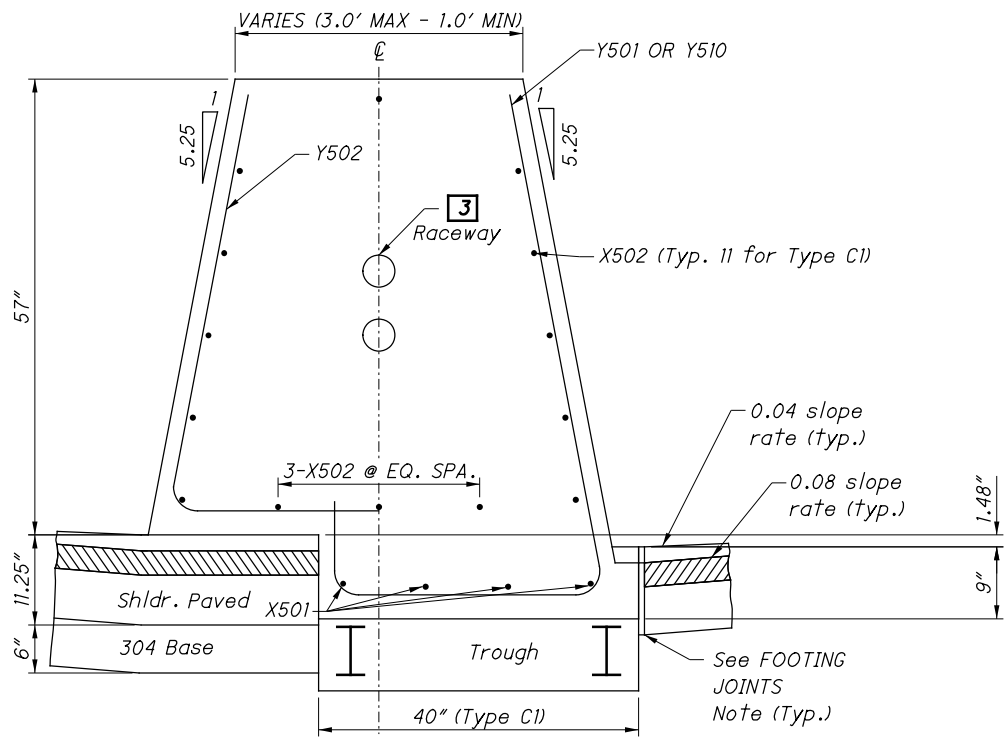
2021-11-18 - BU 288 - RFC

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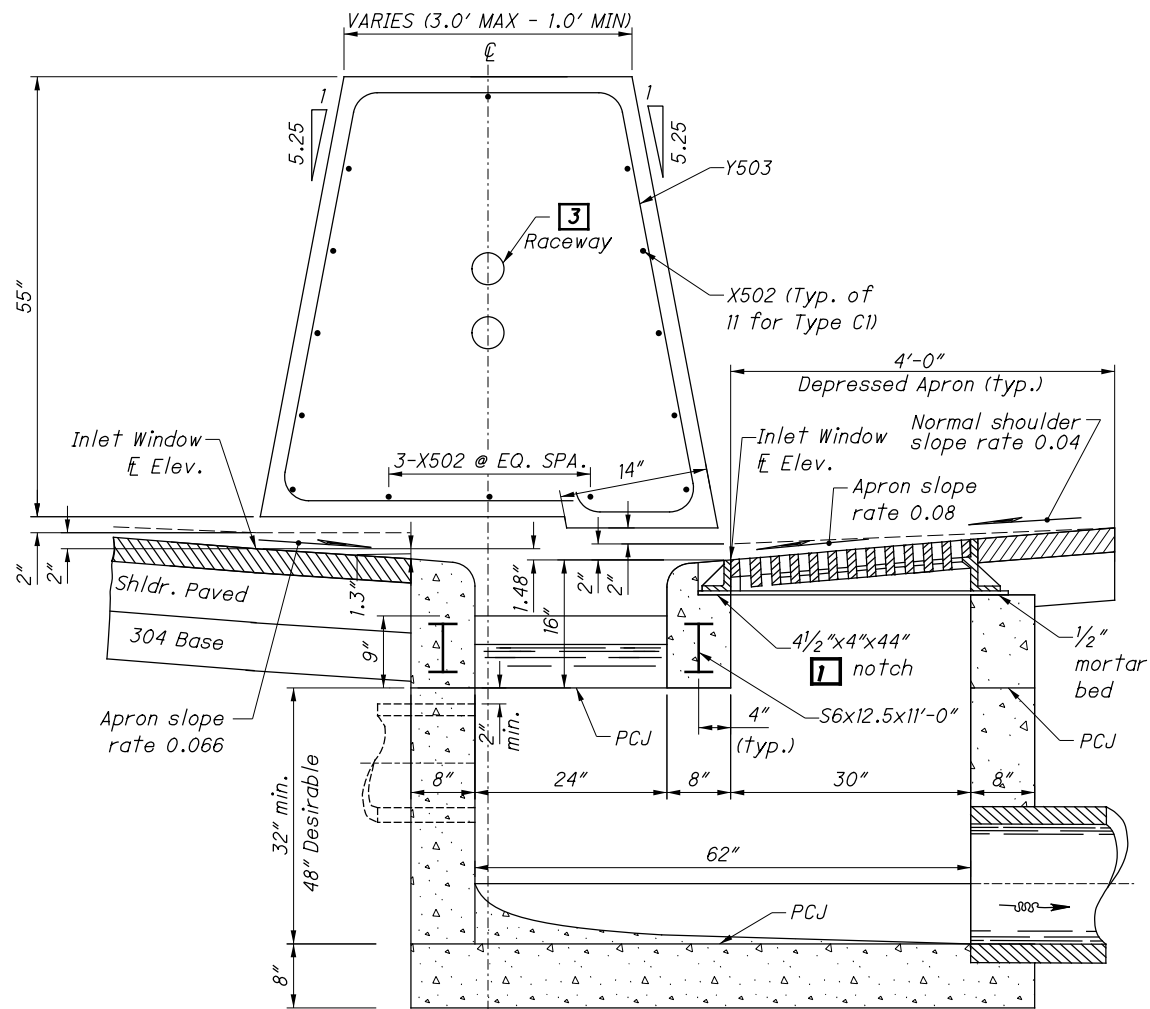
72  
86



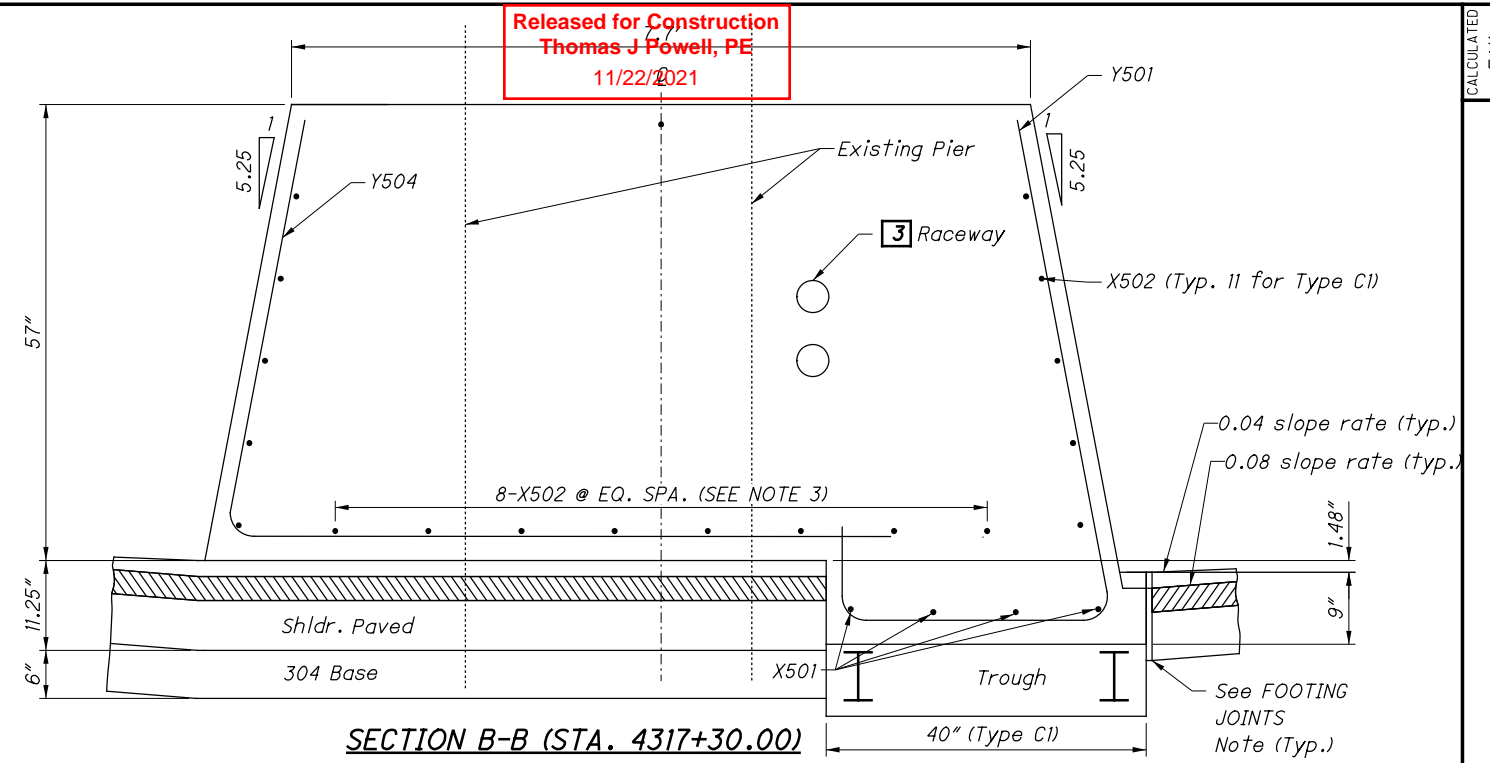
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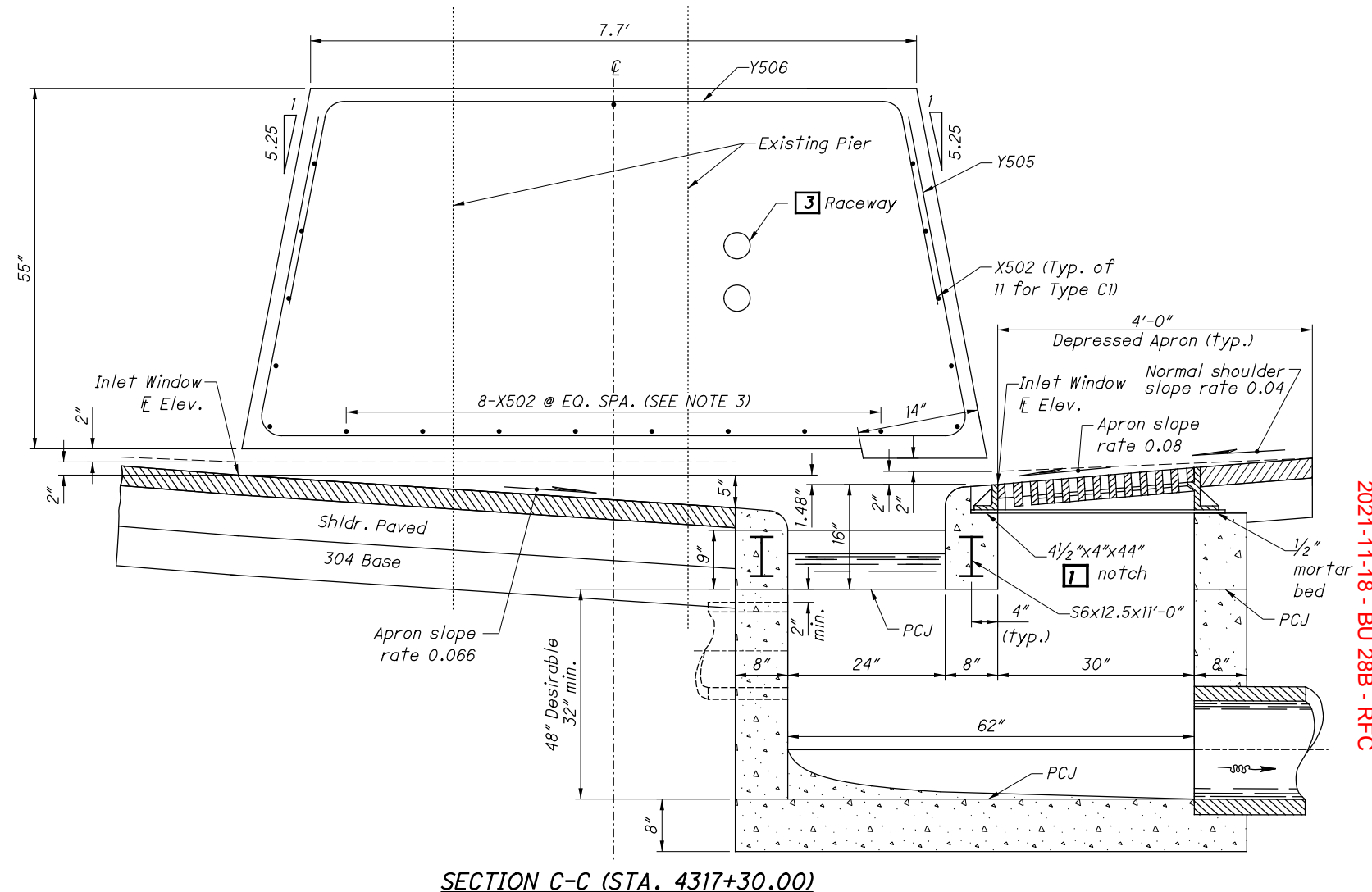
**SECTION B-B (STA. 4316+40.00)**



**SECTION C-C (STA. 4316+40.00)**



**SECTION B-B (STA. 4317+30.00)**



**SECTION C-C (STA. 4317+30.00)**

NOTES:  
 1. SECTION CUT LOCATIONS, NOTE REFERENCES, AND OTHER DETAILED INFORMATION NOT SHOWN ON THIS SHEET CAN BE FOUND ON ODOT SCD I-2.2.

2. SEE SHEETS 71, 72, & 74 FOR ADDITIONAL INFORMATION.  
 3. FIELD TRIM REINFORCEMENT AT LOCATIONS OF EXISTING PIERS.

Released for Construction  
 Thomas J Powell, PE  
 11/22/2021

CALCULATED	EAK	CHECKED	KC
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**INLET DETAILS - I-3 C1, AS PER PLAN**

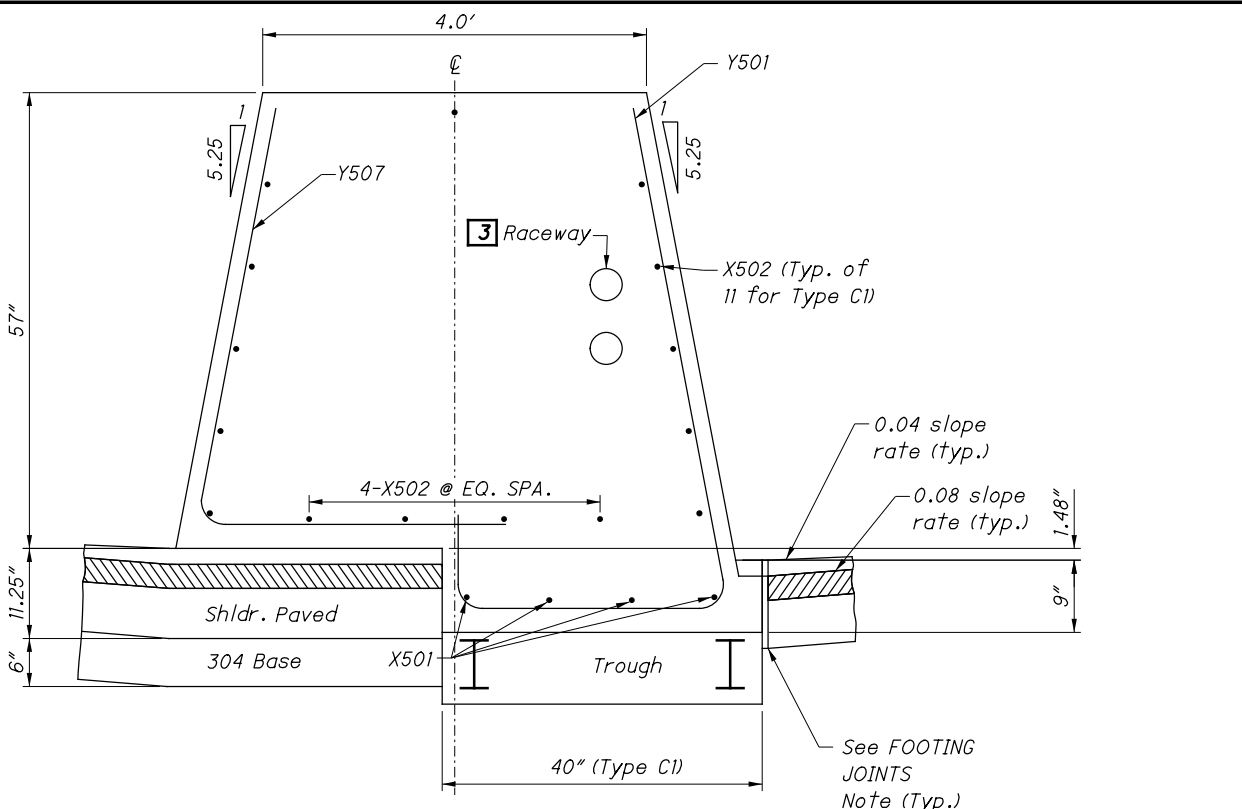
2021-11-18 - BU 28B - RFC

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

73  
 86

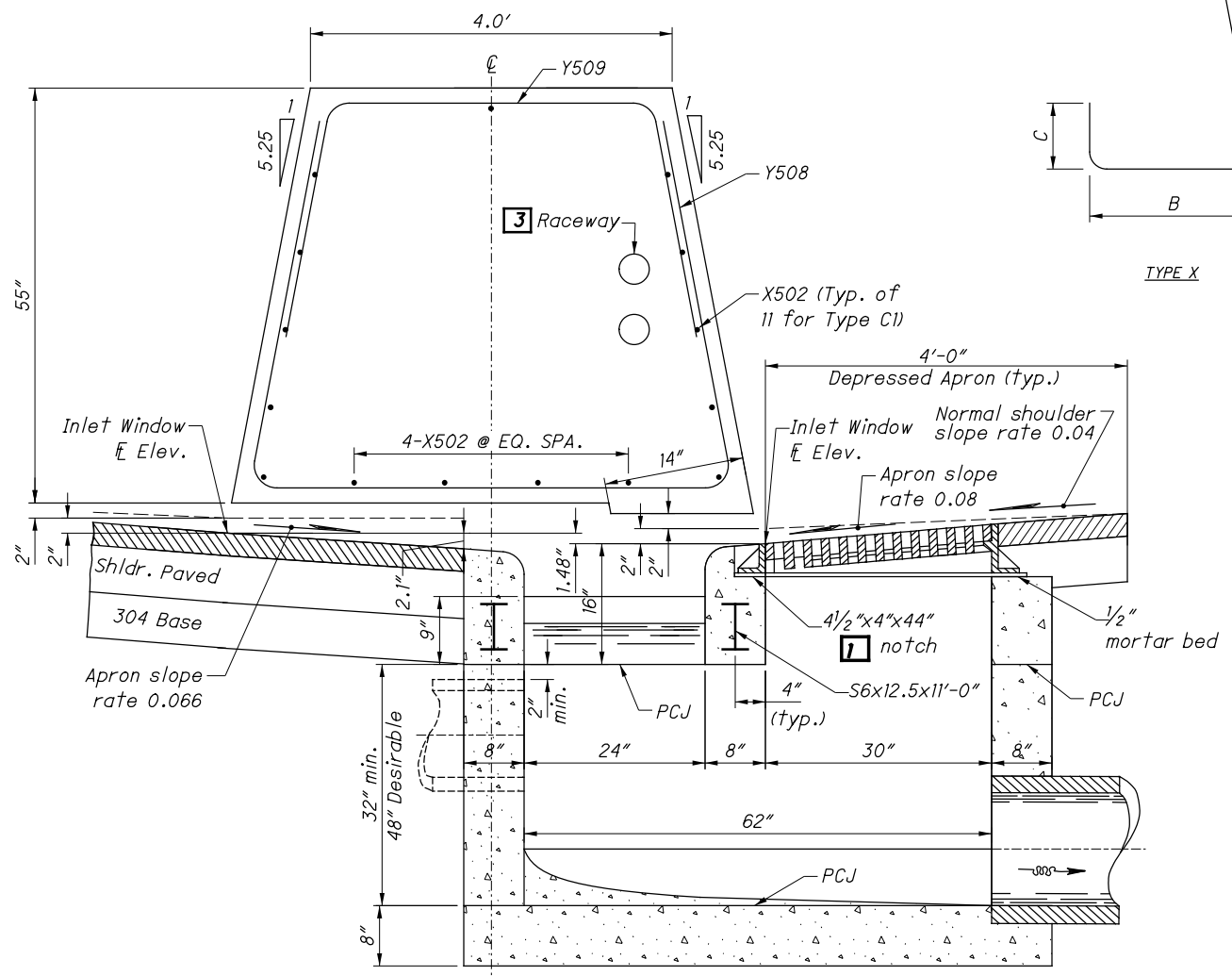
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Released for Construction  
 Thomas J Powell, PE  
 11/22/2021

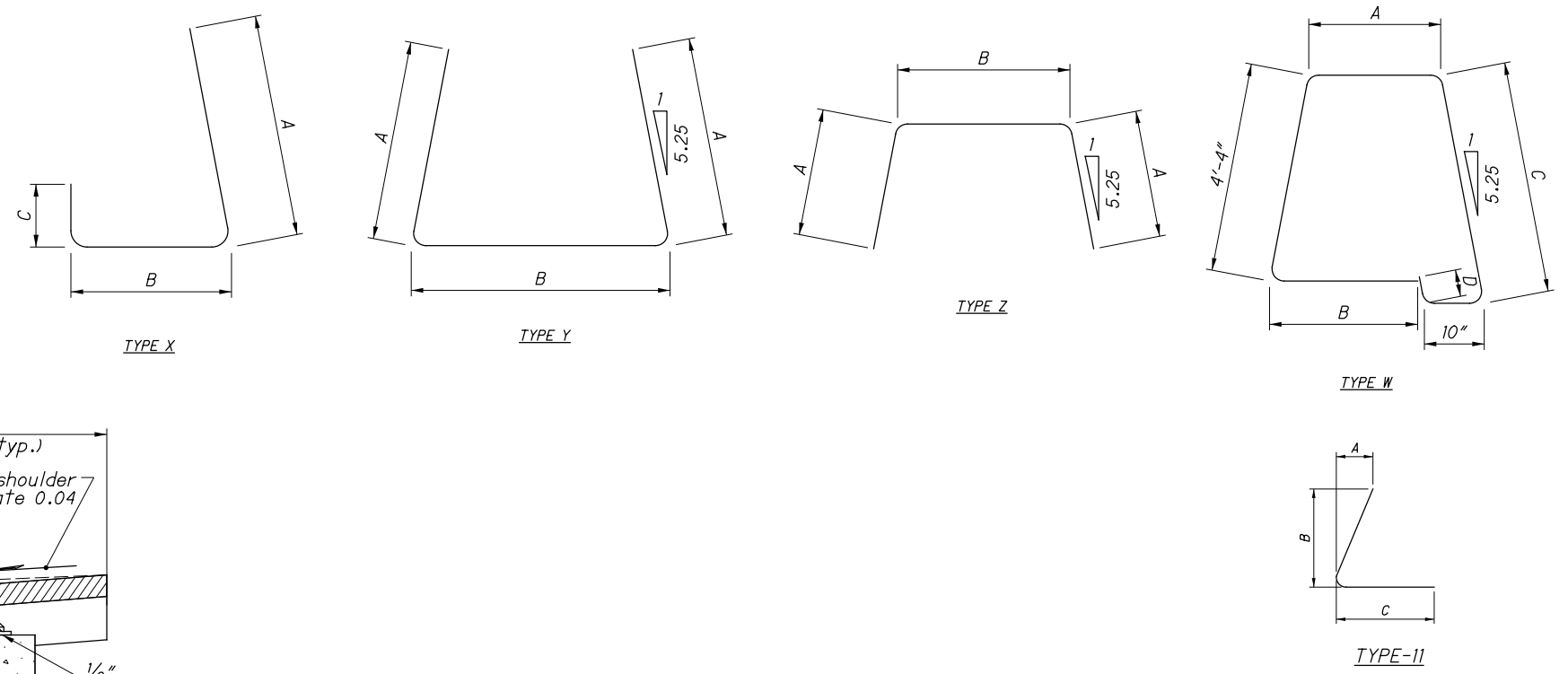


**SECTION B-B (STA. 4318+00.00)**

MARK	NUMBER				LENGTH	WEIGHT	TYPE	DIMENSIONS							
	STA. 4316+40	STA. 4317+30	STA. 4318+00	TOTAL				A	B	C	D	E	R	INC	
Y501	4	8	8	20	8'-4"	174	X	5'-2 1/2"	2'-9"	1'-0"					
Y502	8			8	6'-5"	54	11	0'-10"	4'-4"	2'-2"					
Y503	1 SR			1 SR	12'-1"			1'-5"	2'-2"						Incr A = 1 3/4"
Y504	OF			OF	TO	66	W	TO	TO	4'-5 1/2"	4"				Incr B = 1 3/4"
Y505	5			5	13'-3"			2'-1"	2'-10"						
Y506		8		8	11'-3"	94	11	0'-10"	4'-4"	7'-0"					
Y507		5		5	16'-9"	87	Y	4'-2"	9'-0 1/2"						
Y508			5	5	11'-11"	62	Z	2'-7"	7'-4"						
Y509			8	8	7'-9"	65	11	0'-10"	4'-4"	3'-6"					
Y510			5	5	13'-1"	68	Y	4'-0 1/2"	5'-4"						
X501	4			4	8'-1"	34	X	5'-2 1/2"	2'-6"	1'-0"					
X502	8	8	8	24	4'-8"	117	STR								
	14	19	15	48	19'-8"	985	STR								
<b>SUB-TOTAL</b>						<b>1849</b>									



**SECTION C-C (STA. 4318+00.00)**



NOTES:  
 1. SECTION CUT LOCATIONS, NOTE REFERENCES, AND OTHER DETAILED INFORMATION NOT SHOWN ON THIS SHEET CAN BE FOUND ON ODOT SCD I-2.2.  
 2. SEE SHEETS 71 - 73 FOR ADDITIONAL INFORMATION.

CALCULATED EAK CHECKED KC  
**INLET DETAILS - I-3 C1, AS PER PLAN**  
 2021-11-18 - BU 288 - RFC  
 SUM-76/77-8-00/74/0.00  
 8.24/9.74/0.00  
 74  
 86

Released for Construction  
Thomas J Powell, PE  
11/22/2021

CALCULATED  
CGL  
CHECKED  
MCK

REF. NO.	SHEET NO.	STATION TO STATION		OUTLET TYPE	SIDE	OUTLET OFFSET	OUTLET BOTTOM ELEVATION	UNDERDRAIN OUTLET INVERT	BENDS & BRANCHES (for information only)						REMARKS
		FROM	TO						CAP	TEE	45° WYE	45° BEND	90° BEND	CROSS	
		FT	FT						EA	EA	EA	EA	EA	EA	
UD-1	11	4297+65.00	4302+20.80		LT	79.3			1						TIE TO UD-7
UD-2	11	4297+65.00	4302+21.05		LT	71.3			1						TIE TO UD-7
UD-3	11	4297+65.00	4302+21.05		LT	51.9			1						TIE TO UD-7
UD-4	11	4297+65.00	4302+32.95	EX. INLET	LT	3.0	1067.05	1081.44	1			1			OUTLET TO D-54, 10' TYPE F CONDUIT FOR CONNECTION
UD-5	11	4297+65.00	4302+32.95	EX. INLET	CL	3.0 RT	1067.05	1081.04	1						UD UNDER BARRIER OUTLET TO D-54, 10' TYPE F CONDUIT FOR CONNECTION
UD-6	11	4297+65.00	4302+32.95	EX. INLET	RT	3.0	1067.05	1081.45	1			1			OUTLET TO D-54, 10' TYPE F CONDUIT FOR CONNECTION
UD-7	13	4302+21.05		CB-5	LT	91.2	1079.12	1080.96		1	1		1		TYPE F CONDUIT, OUTLET TO D-52
UD-8	13	4302+34.35	4305+51.81		LT	61.3			1			1			TIE TO LANE M UNDERDRAIN WITH TYPE F CONDUIT
UD-9	13	4302+39.68	4307+10.74	EX. INLET	LT	3.0	1062.56	1069.49				1			OUTLET TO D-55, 10' TYPE F CONDUIT FOR CONNECTION
UD-10	13	4302+39.68	4307+10.95	EX. INLET	CL	3.0 RT	1062.56	1068.95	1						UD UNDER BARRIER OUTLET TO D-55, 10' TYPE F CONDUIT FOR CONNECTION
UD-11	13	4302+39.68	4307+11.75	EX. INLET	RT	3.0	1062.56	1069.20	1				1		OUTLET TO D-55, 10' TYPE F CONDUIT FOR CONNECTION
UD-12	15	4305+46.91	4312+14.00	CB-3A	LT	49.4	1056.03	1057.39	1				1		OUTLET TO D-481, 10' TYPE F CONDUIT FOR CONNECTION
UD-13	15	4306+08.49	4309+05.47		RT	44.0			1				1		TIE TO UD-38
UD-14	15	4306+50.00	4309+05.47		RT	34.0			1	1					TIE TO UD-38
UD-15	15	4307+17.85	4309+25.19	EX. INLET	LT	2.4	1060.25	1064.13	1			1			OUTLET TO D-56
UD-16	15	4307+17.85	4309+25.66	EX. INLET	CL	3.0 RT	1060.25	1063.56	1						UD UNDER BARRIER OUTLET TO D-56, 10' TYPE F CONDUIT FOR CONNECTION
UD-17	15	4307+17.85	4309+25.66	EX. INLET	RT	3.0	1060.25	1062.72	1			1			OUTLET TO D-56, 10' TYPE F CONDUIT FOR CONNECTION
UD-18	17	4309+31.59	4312+13.78	EX. INLET	LT	2.5	1052.58	1057.34	1			1			OUTLET TO D-227, 10' TYPE F CONDUIT FOR CONNECTION
UD-19	17	4309+31.59	4312+12.82	EX. INLET	CL	3.0 RT	1052.58	1056.79	1						OUTLET TO D-227, 10' TYPE F CONDUIT FOR CONNECTION
UD-20	17	4309+31.59	4312+13.82	EX. INLET	RT	3.0	1052.58	1057.31	1			1			OUTLET TO D-227, 10' TYPE F CONDUIT FOR CONNECTION
UD-21	17	4309+22.96	4312+15.31	CB-3A	RT	34.0	1054.75	1057.27	1			1			OUTLET TO D-482, 10' TYPE F CONDUIT FOR CONNECTION
UD-22	17	4309+22.96	4312+15.31	CB-3A	RT	44.0	1054.75	1056.70	1						OUTLET TO D-482
UD-23	17	4309+77.62	4312+14.00	CB-3A	LT	49.9	1056.03	1056.91							OUTLET TO D-481
UD-24	17	4312+18.79	4316+37.50	CB-3	LT	49.9	1049.57	1052.05							OUTLET TO D-485
UD-25	17	4312+18.79	4316+37.50	CB-3	LT	49.9	1049.57	1052.52	1			1			OUTLET TO D-485, 10' TYPE F CONDUIT FOR CONNECTION
UD-26	17	4312+18.79	4316+40.00	I3C-1	LT	0	1047.89	1052.38	1			1			OUTLET TO D-228, 10' TYPE F CONDUIT FOR CONNECTION
UD-27	17	4312+18.79	4316+40.00	I3C-1	CL	0	1047.89	1051.92	1						OUTLET TO D-228
UD-28	17	4312+18.79	4316+40.00	I3C-1	RT	0	1047.89	1052.36	1			1			OUTLET TO D-228, 10' TYPE F CONDUIT FOR CONNECTION
UD-29	17	4312+18.79	4316+40.92	CB-3	RT	42.5	1050.75	1052.35	1			1			OUTLET TO D-484, 10' TYPE F CONDUIT FOR CONNECTION
UD-30	17	4312+18.79	4316+40.92	CB-3	RT	42.5	1050.75	1051.86	1						OUTLET TO D-484
UD-31	19	4316+37.50	4317+28.65	CB-3	LT	48.9	1050.78	1052.18							OUTLET TO D-488
UD-32	19	4316+43.80	4316+75.00	CB-3	LT	42.7	1051.29	1052.43	1			1			OUTLET TO D-485A, 10' TYPE F CONDUIT FOR CONNECTION
UD-33	19	4316+51.50	4316+90.00	MH-3	LT	7.5	1047.89	1052.31	1						OUTLET TO D-218
UD-34	19	4316+51.50	4317+30.00	I3C-1	CL	0	1050.5	1051.83	1						OUTLET TO D-487
UD-35	19	4316+51.50	4317+30.00	I3C-1	RT	0	1050.5	1052.20	1			1			OUTLET TO D-487, 10' TYPE F CONDUIT FOR CONNECTION
UD-36	19	4316+51.50	4317+29.00	CB-3	RT	42.8	1051.07	1052.18	1			1			OUTLET TO D-486, 10' TYPE F CONDUIT FOR CONNECTION
UD-37	19	4316+51.50	4317+29.00	CB-3	RT	42.8	1051.07	1051.76	1						OUTLET TO D-486
UD-38	17	4309+05.47			RT					1					TYPE F CONDUIT, TIE TO UD-17
UD-39	19	4317+00.00	4317+30.00	MH-3	LT	7.3	1047.63	1052.28	1						OUTLET TO D-489
UD-40	19	4317+28.65	4318+35.50	CB-3	LT	42.7	1050.78	1052.18							OUTLET TO D-488
UD-41	19	4317+30.00	4318+05.00	MH-3	LT	7.3	1047.63	1052.28	1						OUTLET TO D-489
UD-42	19	4317+30.00	4317+88.50	I3C-1	CL	0	1050.37	1051.83	1						OUTLET TO D-487
UD-43	19	4317+30.00	4320+76.25	I3C-1	RT	0	1050.37	1052.20	1			1			OUTLET TO D-487, 10' TYPE F CONDUIT FOR CONNECTION
UD-44	19	4317+29.00	4318+35.00	CB-3	RT	42.8	1051.20	1052.18	1			1			OUTLET TO D-486, 10' TYPE F CONDUIT FOR CONNECTION
UD-45	19	4317+29.00	4318+35.00	CB-3	RT	42.8	1051.20	1051.76	1						OUTLET TO D-486
UD-46	19	4318+00.00	4320+76.25	I3C-1	CL	0	1050.99	1051.93							OUTLET TO D-490
UD-47	19	4318+12.50	4320+97.75	MH-3	LT	7.9	1046.31	1051.76	1						OUTLET TO D-494
UD-48	19	4318+35.50	4321+10.00	CB-3	LT	42.7	1050.99	1052.39	1						OUTLET TO D-493
UD-49	19	4318+43.00	4320+76.25	CB-3	RT	42.8	1051.32	1052.47	1			1			OUTLET TO D-491, 10' TYPE F CONDUIT FOR CONNECTION
UD-50	19	4318+43.00	4320+76.25	CB-3	RT	42.8	1051.32	1052.01	1						OUTLET TO D-491
TOTALS									42	3	1	19	4	0	

UNDERDRAIN OUTLET TABLE

2021-11-18 - BU 28B - RFCC

SUM-76 / 8 - 8.24 / 9.74 0.00

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Released for Construction  
Thomas J Powell, PE  
11/22/2021

CALCULATED  
CGL  
CHECKED  
MCK

REF. NO.	SHEET NO.	STATION TO STATION		OUTLET TYPE	SIDE	OFFSET	OUTLET BOTTOM ELEVATION	UNDERDRAIN OUTLET INVERT	BENDS & BRANCHES (for information only)						REMARKS	
		FROM	TO						CAP	TEE	45° WYE	45° BEND	90° BEND	CROSS		
																EA
UD-51									NOT USED							
UD-52	21	4321+10.00	4322+52.25	CB-3A	LT	44.2	1051.46	1054.81	1							OUTLET TO D-499
UD-53	21	4321+10.37	4322+50.00	MH-3	LT	7.6	1044.50	1055.03	1							OUTLET TO D-500
UD-54	21	4320+87.75	4321+64.00	I3-B-1	CL	0	1052.84	1054.19	1							OUTLET TO D-497
UD-55	21	4320+87.75	4321+85.50	I3-B-1	RT	0	1052.84	1054.73	1			1				OUTLET TO D-497, 10' TYPE F CONDUIT FOR CONNECTION
UD-56	21	4320+88.00	4324+72.60	CB-3A	RT	44.0	1053.07	1054.73	1			1				OUTLET TO D-496, 10' TYPE F CONDUIT FOR CONNECTION & AT PR. STM PIPE CROSSING
UD-57	21	4320+88.00	4322+60.00	CB-3A	RT	44.0	1053.07	1054.13	1							OUTLET TO D-496
UD-58	21	4321+90.00	4324+72.60	MH-3	RT	7.0	1052.55	1056.30	1							OUTLET TO D-47, 10' TYPE F CONDUIT FOR CONNECTION
UD-59	21	4321+75.50	4322+48.50	EX. INLET	CL	0	1050.1	1055.66	1							OUTLET TO D-229
UD-60	21	4322+02.38	4324+81.36		LT	48.4			1				1			TIE TO UD-52 WITH TYPE F CONDUIT, TYPE F CONDUIT AT PR. STM PIPE CROSSING
UD-61	21	4322+60.00	4324+81.36	CB-3A	LT	49.9	1056.06	1057.20	1							OUTLET TO D-503
UD-62	21	4322+68.00	4324+72.60	I3-B-1	LT	0	1054.46	1057.81	1			1				OUTLET TO D-502, 10' TYPE F CONDUIT FOR CONNECTION
UD-63	21	4322+68.00	4324+72.60	I3-B-1	CL	0	1054.46	1057.3	1							OUTLET TO D-502
UD-64	21	4322+60.00	4324+72.60	CB-3	RT	44.0	1055.97	1057.20	1							OUTLET TO D-503A
UD-65	23	4324+84.00	4326+83.13	CB-3A	LT	49.9	1061.39	1062.05	1							OUTLET TO D-506
UD-66	23	4324+84.00	4329+82.16	CB-3A	LT	49.9	1061.39	1062.67				1				OUTLET TO D-506, 10' TYPE F CONDUIT FOR CONNECTION
UD-67	23	4324+84.00	4329+72.60	EX. INLET	LT	0	1060.70	1062.50	1			1				OUTLET TO D-505, 10' TYPE F CONDUIT FOR CONNECTION
UD-68	23	4324+84.00	4329+72.60	EX. INLET	CL	0	1060.70	1061.87	1							OUTLET TO D-505
UD-69	23	4324+84.00	4329+72.60	EX. INLET	RT	0	1060.70	1062.50	1			1				OUTLET TO D-505, 10' TYPE F CONDUIT FOR CONNECTION
UD-70	23	4324+84.00	4329+72.60	CB-3A	RT	44.0	1061.18	1062.56	1			1				OUTLET TO D-507, 10' TYPE F CONDUIT FOR CONNECTION & AT PR. STM PIPE CROSSING
UD-71	23	4324+84.00	4329+57.78	CB-3A	RT	44.0	1061.18	1061.87								OUTLET TO D-507, TYPE F CONDUIT AT PR. STM PIPE CROSSING
UD-72	25	4329+82.16	326+46.50		LT	40			1				1			TIE TO UD-66 WITH TYPE F CONDUIT
UD-73	25	4329+84.80	326+55.00	EX. INLET	CL	2.0' RT	1069.84	1072.58	1							OUTLET TO D-510
UD-74	25	4329+84.80	326+55.00	EX. INLET	RT	2.0	1069.84	1073.16	1			1				OUTLET TO D-510, 10' TYPE F CONDUIT FOR CONNECTION
UD-75	25	4330+00.00	326+46.50	CB-2B	LT	76.8	1071.10	1073.68	1							OUTLET TO D-515
UD-76	25	4329+17.41	326+46.80		RT	VARIES			1					1		TIE TO UD-77 WITH TYPE F CONDUIT
UD-77	25	4330+07.81	326+46.80	EX. INLET	RT	75.3	1071.46	1071.96	1			1				OUTLET TO D-514, 10' TYPE F CONDUIT FOR CONNECTION
UD-78	25	325+65.00	330+73.73	CB-2B	LT	64.9	1066.35	1069.81	1							OUTLET TO D-800
UD-79	25	325+65.00	332+50.00		LT	51.4			1							TIE TO UD-88
UD-80	25	325+65.00	332+50.00		LT	29.0			1							TIE TO UD-88
UD-81	25	325+65.00	334+46.60	EX. INLET	CL	0	1028.45	1058.08	1							OUTLET TO D-805
UD-82	25	325+65.00	334+46.60	CB-3A	RT	0	1028.45	1058.60	1			1				TIE TO UD-81 WITH TYPE F CONDUIT
UD-83	25	325+65.00	332+75.00		RT	58.5			1				1			TIE TO UD-92 WITH TYPE F CONDUIT
UD-84		NOT	USED													
UD-85	27	330+75.00	332+50.00	CB-3	LT	60.9	1061.09	1063.29	1							OUTLET TO D-802
UD-86		NOT	USED													
UD-87	27	332+50.00	333+73.50		LT	68.4		1062.05								TIE TO UD-94
UD-88	27		332+50.00	CB-3	LT	60.9	1061.09	1063.77		1	2					TYPE F CONDUIT, OUTLET TO D-802
UD-89	27	333+15.90	332+98.07		LT	51.4		1062.05	1							OUTLET TO D-803, 10' TYPE F CONDUIT FOR CONNECTION
UD-90	27	332+50.00	332+76.00		LT	29.0			1							TIE TO UD-88 (UNCLASSIFIED)
UD-91	27	332+20.10	334+92.92		RT	68.8				1						TIE TO UD-96
UD-92	27	332+75.00	334+92.92		RT	58.5				1			1			TIE TO UD-96
UD-93	27	332+75.00	334+46.60	EX. INLET	LT	0	1028.45	1057.99				1				TIE TO UD-81 WITH TYPE F CONDUIT
UD-94	29		333+73.50		LT	74.9		1059.09		1	1					TYPE F CONDUIT, OUTLET TO DITCH
UD-95	29	333+73.50	334+12.39		LT	51.4										TIE TO UD-94 (UNCLASSIFIED)
UD-96	29		334+85.36		RT	74.9		1059.00		1	1					TYPE F CONDUIT, OUTLET TO DITCH
UD-97	29	333+15.94	333+73.50		LT				1			1				TIE TO UD-94 (UNCLASSIFIED)
<b>TOTALS</b>									34	5	5	11	5	0		

UNDERDRAIN OUTLET TABLE

2021-11-18 - BU 28B - RFCC

SUM-76 / 77 / 8 - 8 / 24 / 9.74 0.00

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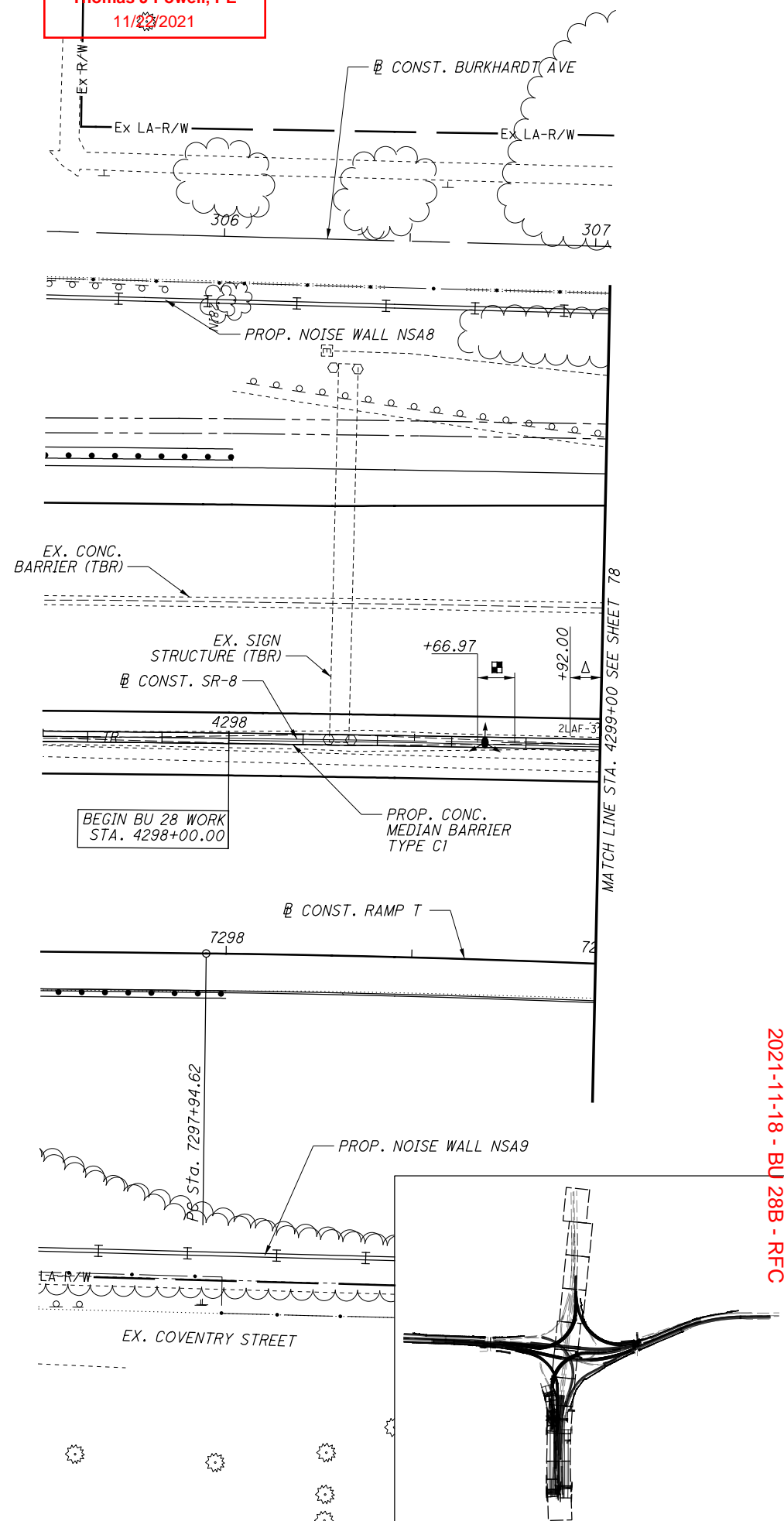
**LEGEND**

- SS, TYPE B1 END ANCHOR (15'), SCD RM-4.3
- △ SS, TYPE C1 END ANCHOR (15'), SCD RM-4.3
- ▽ SS, TYPE D END ANCHOR (15'), SCD RM-4.5
- ◇ TYPE B END SECTION (30'), SCD RM-4.6
- TYPE D END SECTION (14'), SCD RM-4.6
- LIGHT POLE FOUNDATION (8'), SCD HL-20.13
- BARRIER INLET (20'), SCD I-2.1, I-2.2, I-2.3
- △△ SIGN FOUNDATION (10'), SCD TC-21.50, SINGLE POLE OR TRUSS
- (XX') DEDUCTED FROM BARRIER LENGTH

NOTE: FOR BARRIER OFFSETS, LANE WIDTHS, AND SHLDR. WIDTHS, SEE TYPICAL SECTIONS AND/OR ROADWAY PLAN SHEETS

ISSUE RECORD: BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

Released for Construction  
 Thomas J Powell, PE  
 11/22/2021



CALCULATED CGL  
 CHECKED MCK

**BARRIER DETAILS**

2021-11-18 - BU 28B - RFC  
 SUM-76 / 77 - 8 / 77 / 0.00  
 8.24 / 9.74 / 0.00

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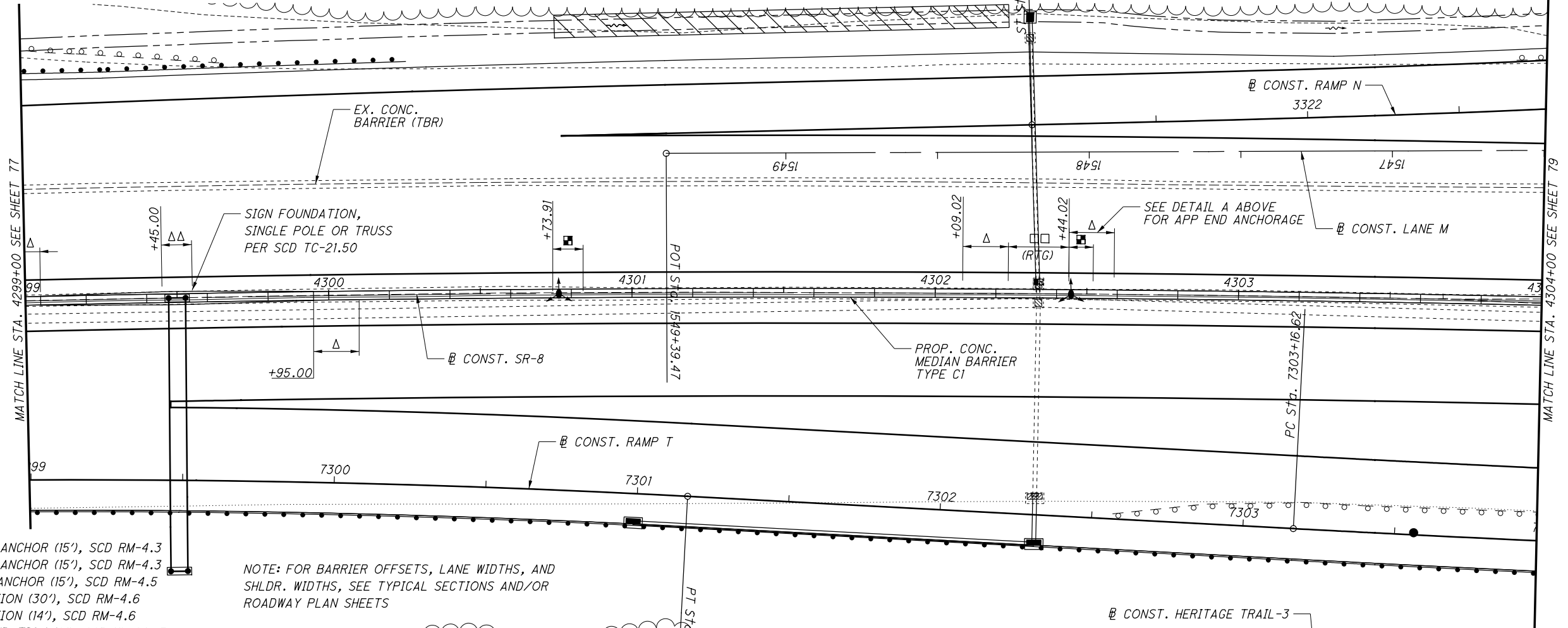
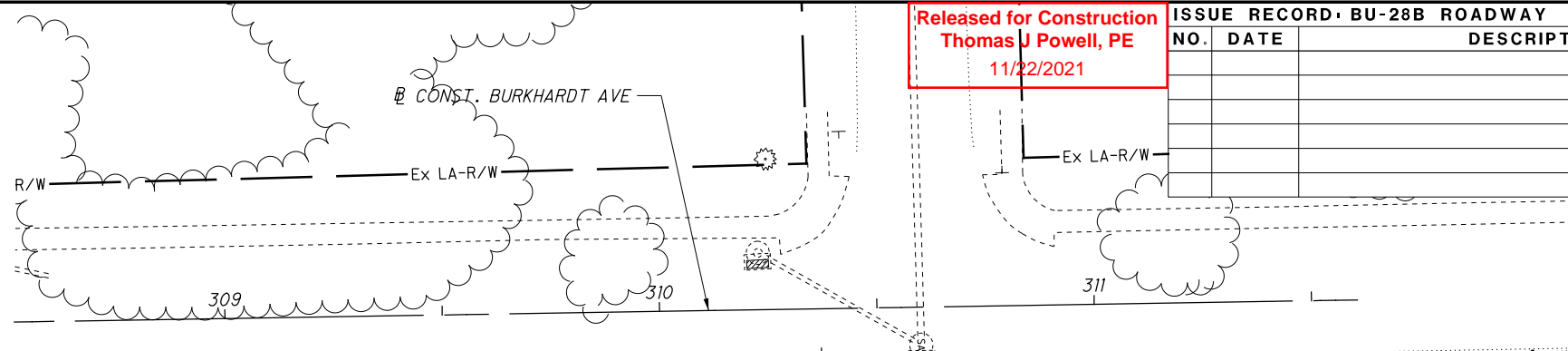
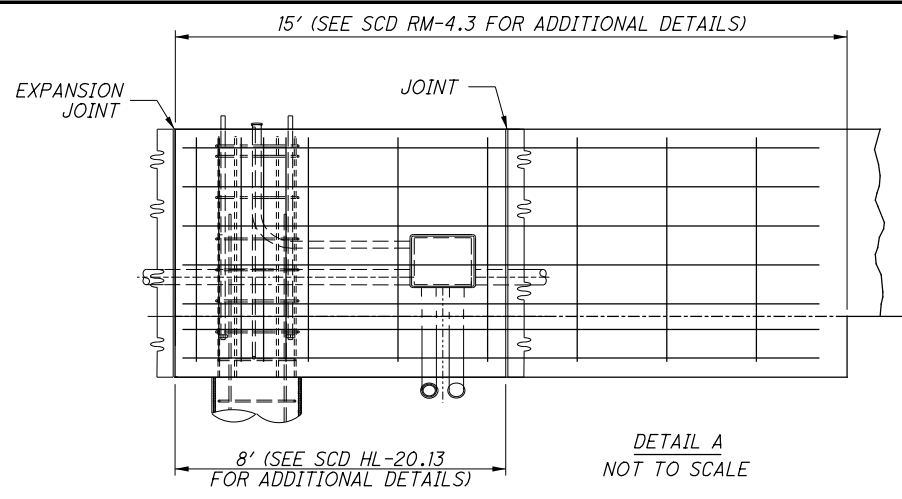
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NO.	DATE	DESCRIPTION

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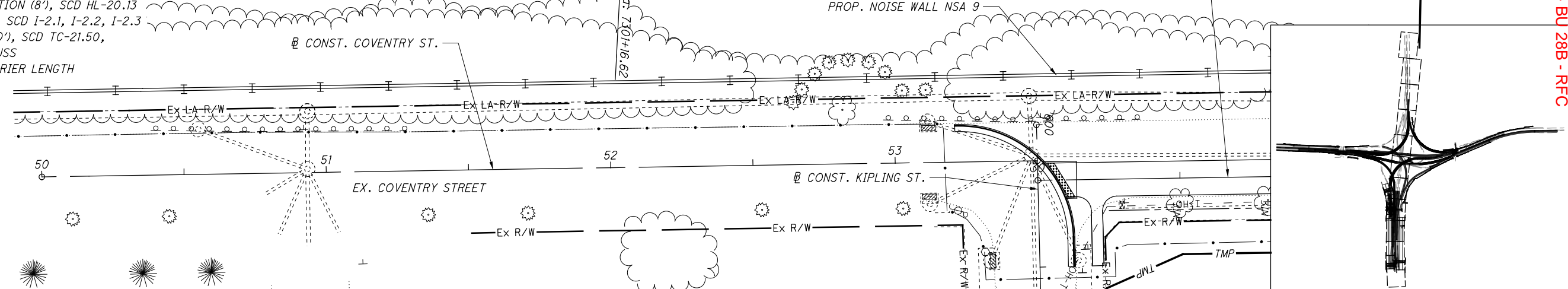
40  
20  
0  
10  
HORIZONTAL  
SCALE IN FEET

CALCULATED  
CGL  
CHECKED  
MCK



- LEGEND**
- SS, TYPE B1 END ANCHOR (15'), SCD RM-4.3
  - △ SS, TYPE C1 END ANCHOR (15'), SCD RM-4.3
  - ▽ SS, TYPE D END ANCHOR (15'), SCD RM-4.5
  - ◇ TYPE B END SECTION (30'), SCD RM-4.6
  - ◆ TYPE D END SECTION (14'), SCD RM-4.6
  - LIGHT POLE FOUNDATION (8'), SCD HL-20.13
  - BARRIER INLET (20'), SCD I-2.1, I-2.2, I-2.3
  - △△ SIGN FOUNDATION (10'), SCD TC-21.50, SINGLE POLE OR TRUSS
  - (XX') DEDUCTED FROM BARRIER LENGTH

NOTE: FOR BARRIER OFFSETS, LANE WIDTHS, AND SHLDR. WIDTHS, SEE TYPICAL SECTIONS AND/OR ROADWAY PLAN SHEETS



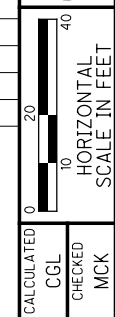
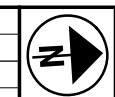
**BARRIER DETAILS**

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8.24/9.74/0.00

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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



CALCULATED CGL  
CHECKED MCK

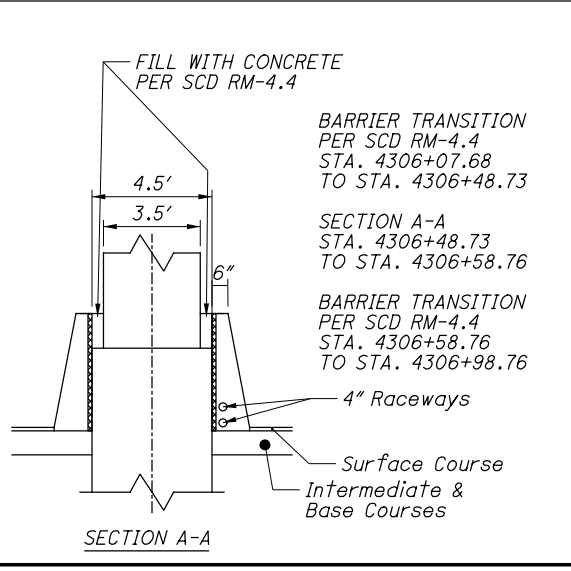
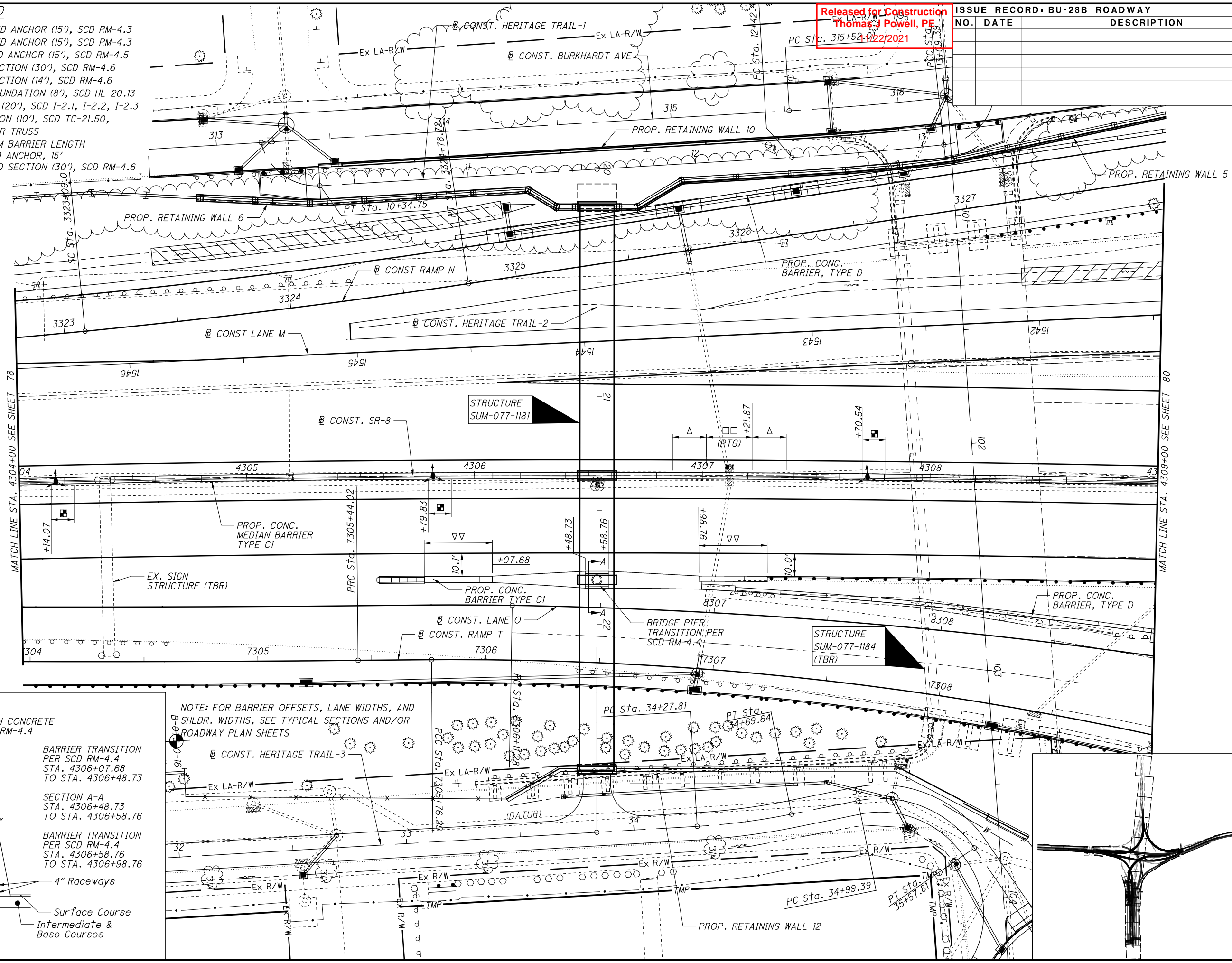
BARRIER DETAILS

SUM-76 / 77 / 00-  
8.24 / 9.74 / 0.00

79  
86

**LEGEND**

- SS, TYPE B1 END ANCHOR (15'), SCD RM-4.3
- △ SS, TYPE C1 END ANCHOR (15'), SCD RM-4.3
- ▽ SS, TYPE D END ANCHOR (15'), SCD RM-4.5
- ◇ TYPE B END SECTION (30'), SCD RM-4.6
- TYPE D END SECTION (14'), SCD RM-4.6
- LIGHT POLE FOUNDATION (8'), SCD HL-20.13
- BARRIER INLET (20'), SCD I-2.1, I-2.2, I-2.3
- △△ SIGN FOUNDATION (10'), SCD TC-21.50, SINGLE POLE OR TRUSS
- (XX') DEDUCTED FROM BARRIER LENGTH
- ⊕ SS, TYPE C END ANCHOR, 15'
- ▽▽ SS, TYPE C1 END SECTION (30'), SCD RM-4.6



NOTE: FOR BARRIER OFFSETS, LANE WIDTHS, AND SHLDR. WIDTHS, SEE TYPICAL SECTIONS AND/OR ROADWAY PLAN SHEETS

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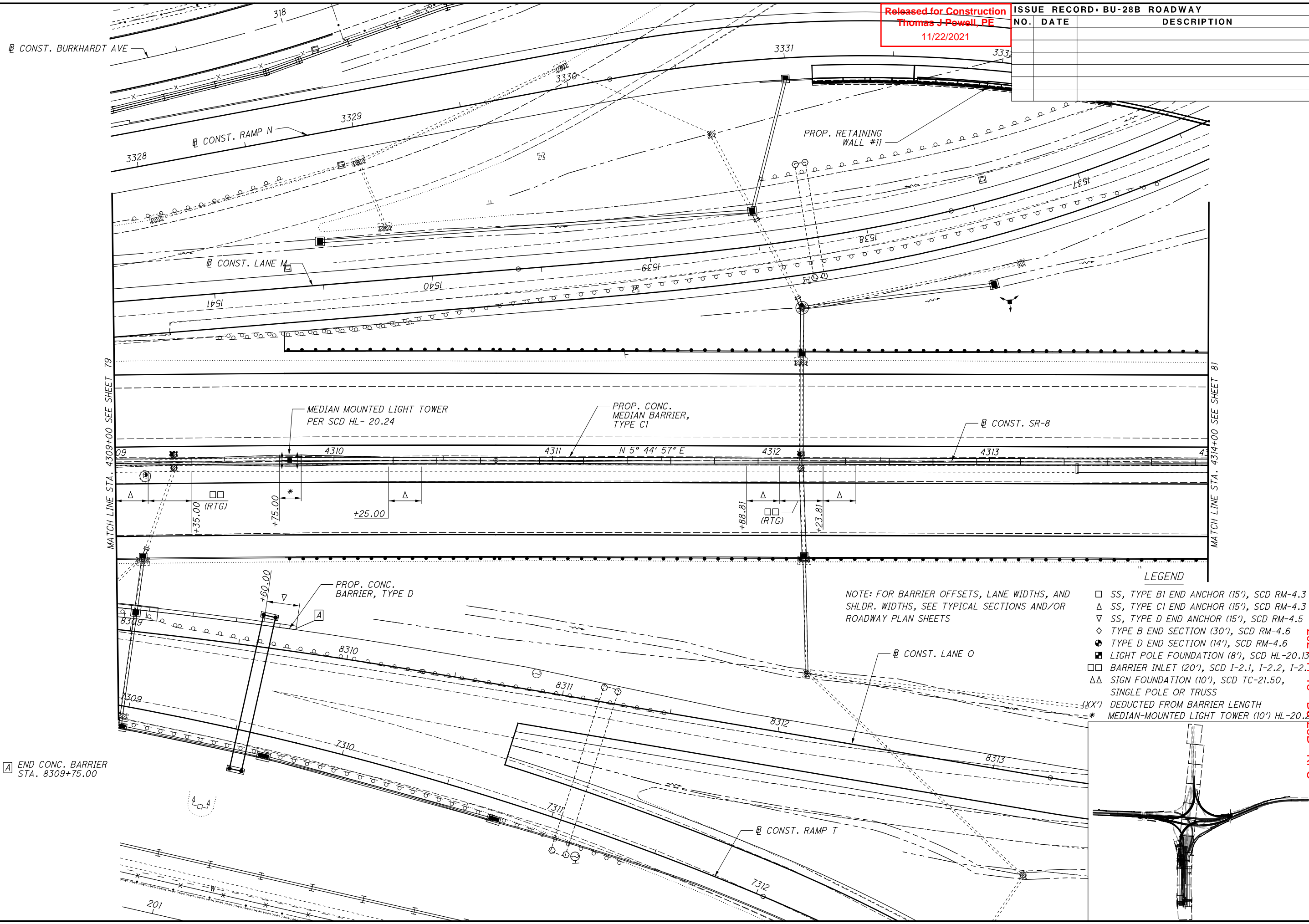
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ISSUE RECORD - BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

CALCULATED  
 CGL  
 CHECKED  
 MCK

0 20 40  
 10  
 HORIZONTAL  
 SCALE IN FEET



MATCH LINE STA. 4309+00 SEE SHEET 79

MATCH LINE STA. 4314+00 SEE SHEET 81

N 5° 44' 57" E

LEGEND

- NOTE: FOR BARRIER OFFSETS, LANE WIDTHS, AND SHLDR. WIDTHS, SEE TYPICAL SECTIONS AND/OR ROADWAY PLAN SHEETS
- SS, TYPE B1 END ANCHOR (15'), SCD RM-4.3
  - △ SS, TYPE C1 END ANCHOR (15'), SCD RM-4.3
  - ▽ SS, TYPE D END ANCHOR (15'), SCD RM-4.5
  - ◇ TYPE B END SECTION (30'), SCD RM-4.6
  - TYPE D END SECTION (14'), SCD RM-4.6
  - LIGHT POLE FOUNDATION (8'), SCD HL-20.13
  - BARRIER INLET (20'), SCD I-2.1, I-2.2, I-2.3
  - △△ SIGN FOUNDATION (10'), SCD TC-21.50, SINGLE POLE OR TRUSS
  - (XX') DEDUCTED FROM BARRIER LENGTH
  - \* MEDIAN-MOUNTED LIGHT TOWER (10') HL-20.24

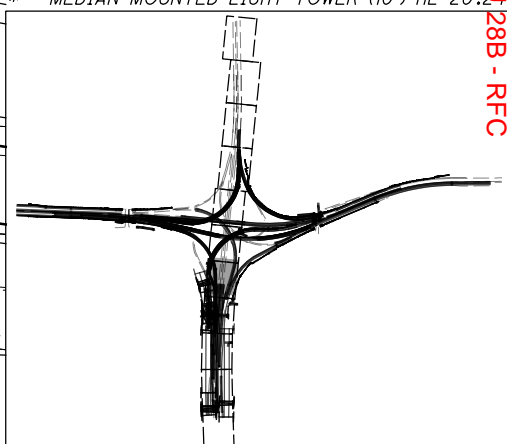
A END CONC. BARRIER  
STA. 8309+75.00

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

80  
86

BARRIER DETAILS





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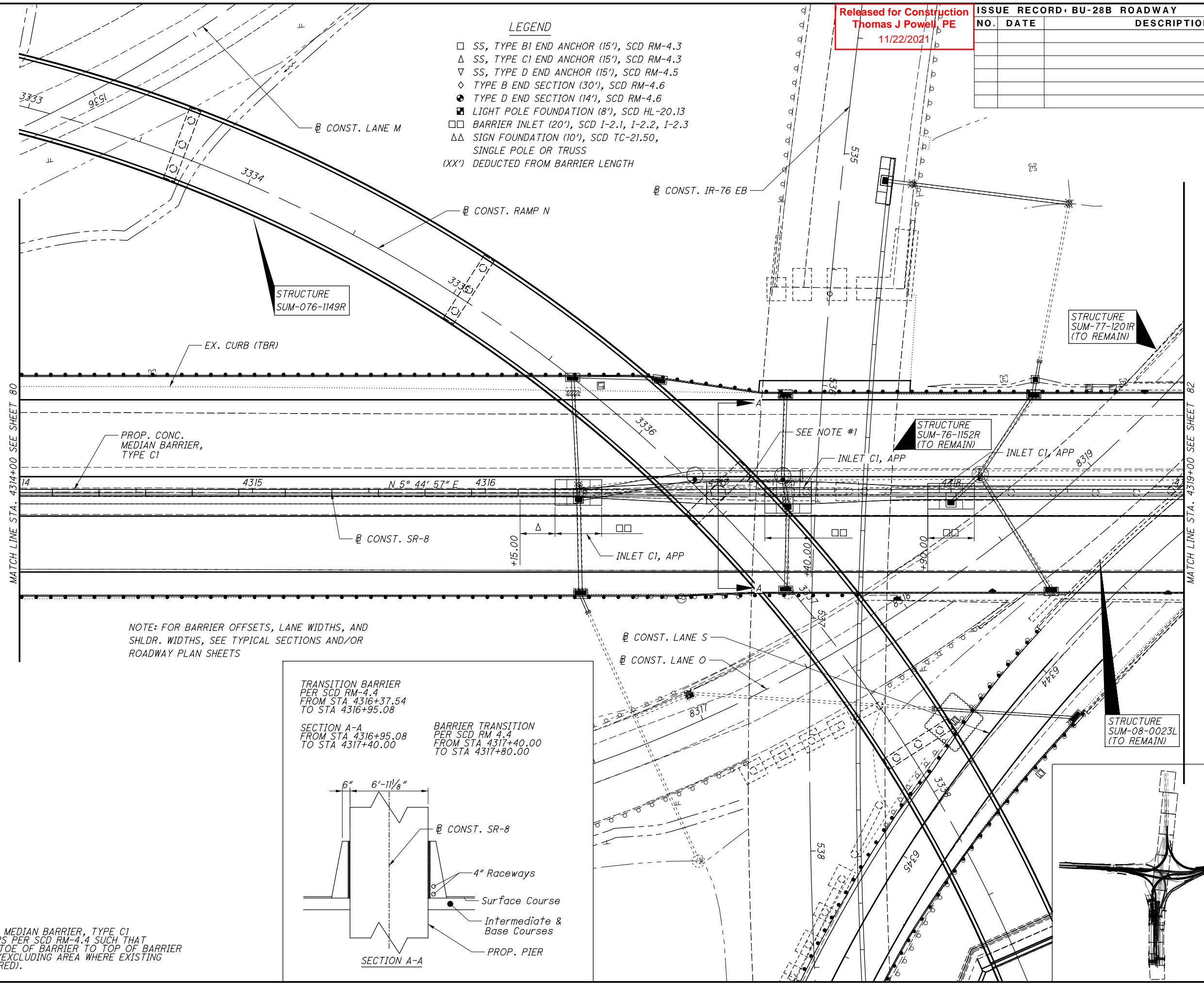
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NO.	DATE	DESCRIPTION

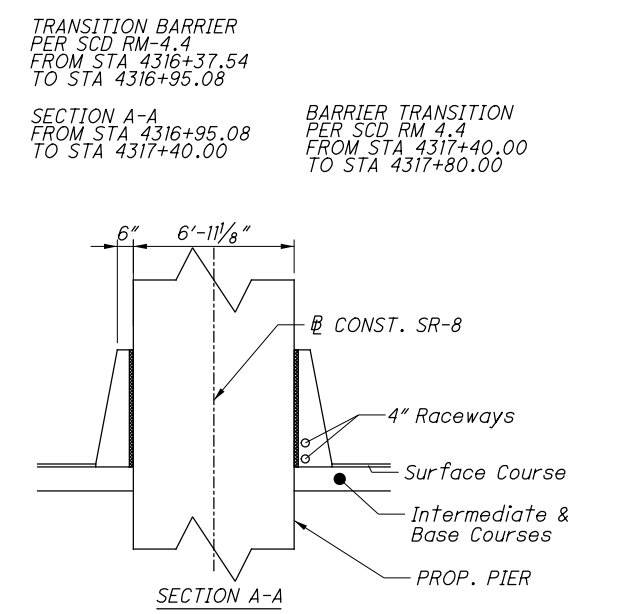
0 20 40  
1" = 40'  
HORIZONTAL SCALE IN FEET

CALCULATED CGL CHECKED MCK

- LEGEND**
- SS, TYPE B1 END ANCHOR (15'), SCD RM-4.3
  - △ SS, TYPE C1 END ANCHOR (15'), SCD RM-4.3
  - ▽ SS, TYPE D END ANCHOR (15'), SCD RM-4.5
  - ◇ TYPE B END SECTION (30'), SCD RM-4.6
  - TYPE D END SECTION (14'), SCD RM-4.6
  - LIGHT POLE FOUNDATION (8'), SCD HL-20.13
  - BARRIER INLET (20'), SCD I-2.1, I-2.2, I-2.3
  - △△ SIGN FOUNDATION (10'), SCD TC-21.50, SINGLE POLE OR TRUSS
  - (XX') DEDUCTED FROM BARRIER LENGTH



NOTE: FOR BARRIER OFFSETS, LANE WIDTHS, AND SHLDR. WIDTHS, SEE TYPICAL SECTIONS AND/OR ROADWAY PLAN SHEETS



**NOTES:**

1. INSTALL CONCRETE MEDIAN BARRIER, TYPE C1 BETWEEN BRIDGE PIERS PER SCD RM-4.4 SUCH THAT THE MATERIAL FROM TOE OF BARRIER TO TOP OF BARRIER SHALL BE CONCRETE (EXCLUDING AREA WHERE EXISTING PIERS ARE ENCOUNTERED).

**BARRIER DETAILS**

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8.24/9.74

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NO.	DATE	DESCRIPTION

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0 20 40  
 HORIZONTAL SCALE IN FEET

CALCULATED  
 CGL  
 CHECKED  
 MCK

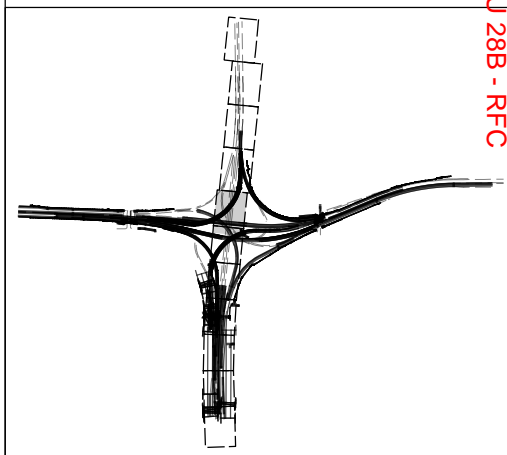
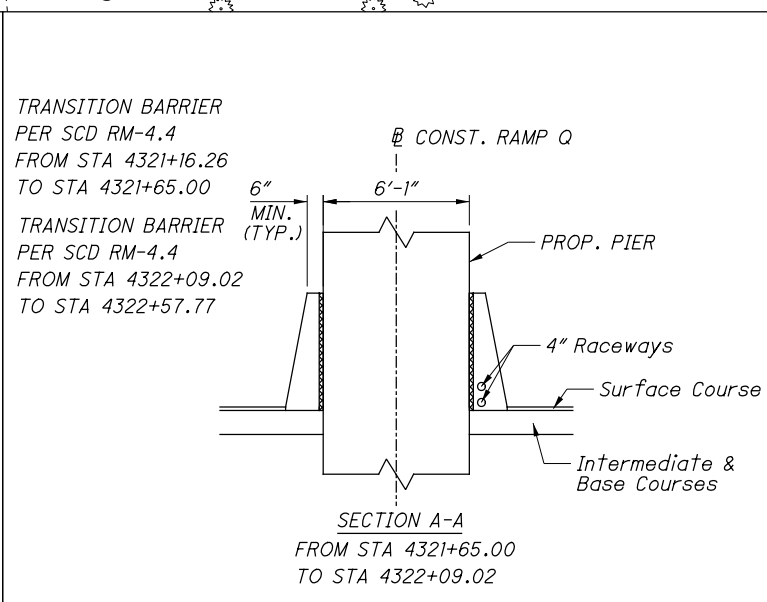
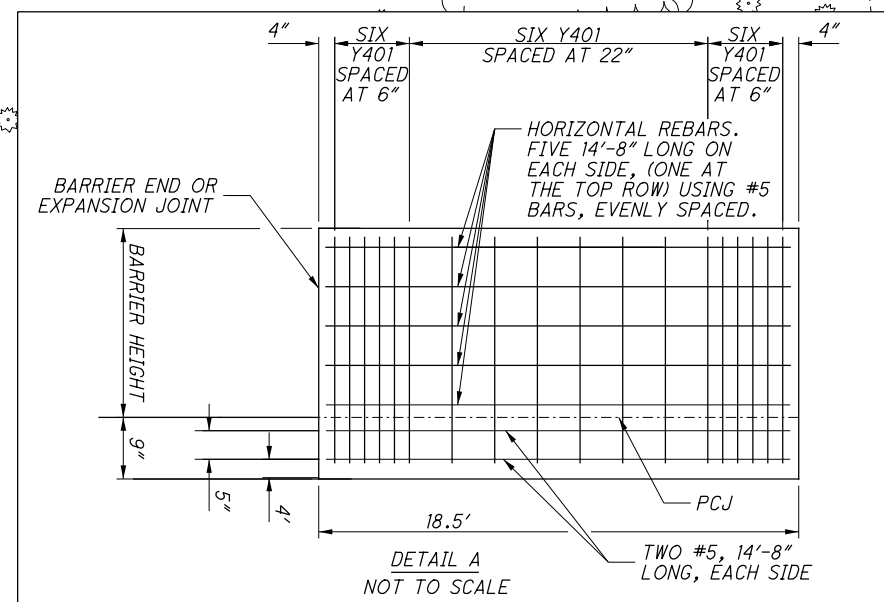
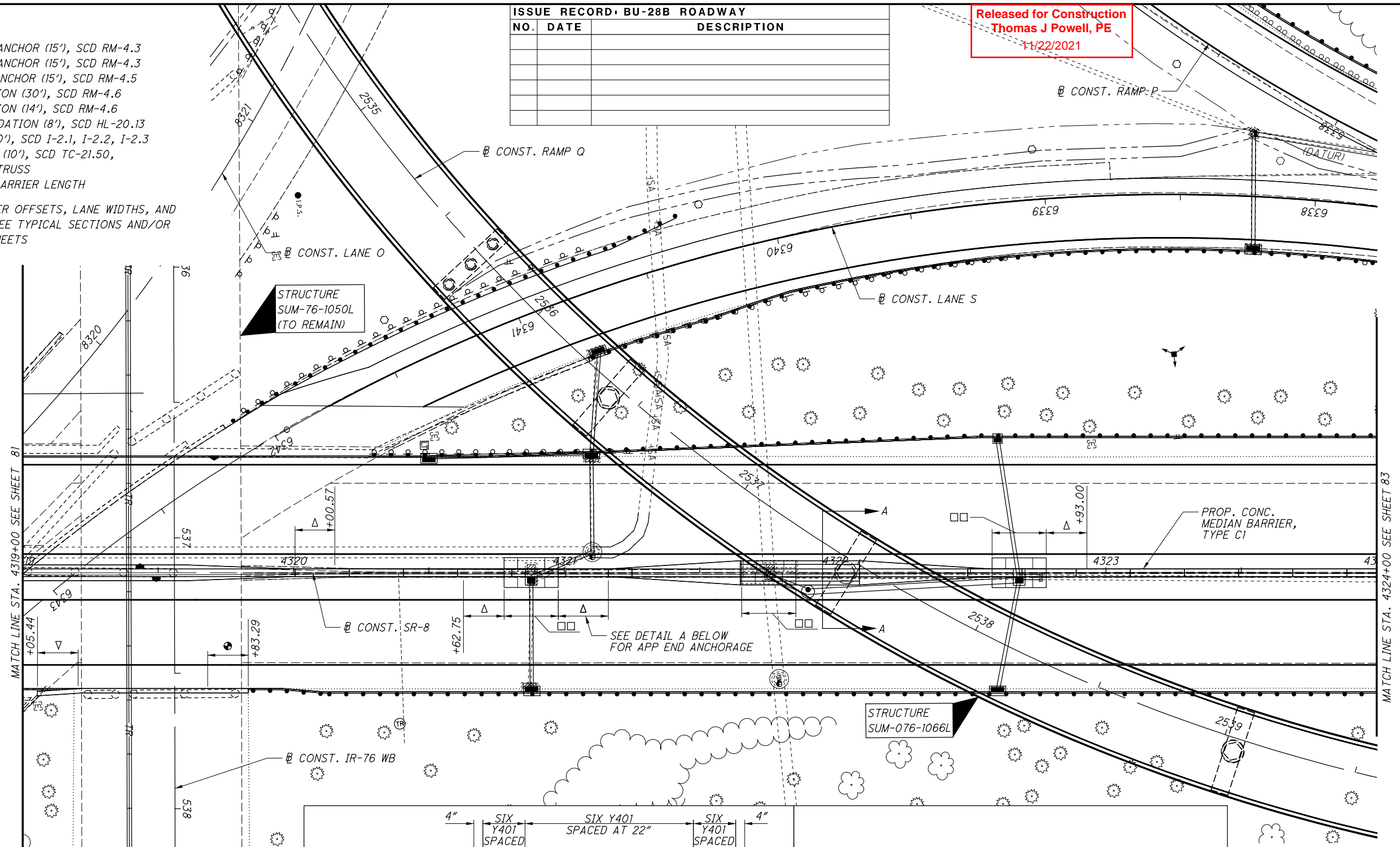
BARRIER DETAILS

2021-11-18 - BU 28B - RFC

SUM-76/77-8 / 4.00  
 8.24 / 9.74

82  
 86

- LEGEND**
- SS, TYPE B1 END ANCHOR (15'), SCD RM-4.3
  - △ SS, TYPE C1 END ANCHOR (15'), SCD RM-4.3
  - ▽ SS, TYPE D END ANCHOR (15'), SCD RM-4.5
  - ◆ TYPE B END SECTION (30'), SCD RM-4.6
  - TYPE D END SECTION (14'), SCD RM-4.6
  - LIGHT POLE FOUNDATION (8'), SCD HL-20.13
  - BARRIER INLET (20'), SCD I-2.1, I-2.2, I-2.3
  - △△ SIGN FOUNDATION (10'), SCD TC-21.50, SINGLE POLE OR TRUSS
  - (XX') DEDUCTED FROM BARRIER LENGTH
- NOTE: FOR BARRIER OFFSETS, LANE WIDTHS, AND SHLDR. WIDTHS, SEE TYPICAL SECTIONS AND/OR ROADWAY PLAN SHEETS

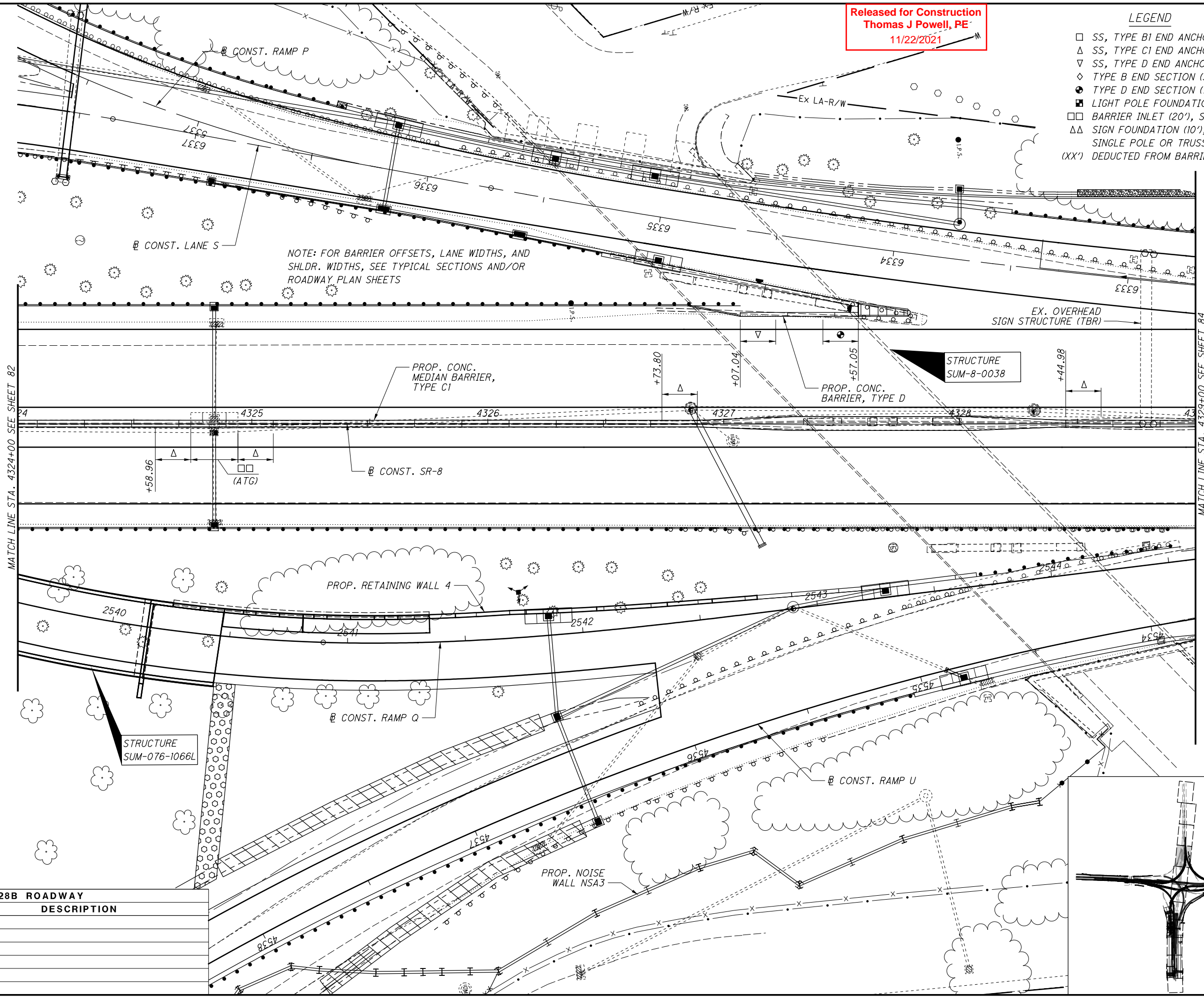


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- LEGEND**
- SS, TYPE B1 END ANCHOR (15'), SCD RM-4.3
  - △ SS, TYPE C1 END ANCHOR (15'), SCD RM-4.3
  - ▽ SS, TYPE D END ANCHOR (15'), SCD RM-4.5
  - ◇ TYPE B END SECTION (30'), SCD RM-4.6
  - ⊕ TYPE D END SECTION (14'), SCD RM-4.6
  - LIGHT POLE FOUNDATION (8'), SCD HL-20.13
  - BARRIER INLET (20'), SCD I-2.1, I-2.2, I-2.3
  - △△ SIGN FOUNDATION (10'), SCD TC-21.50, SINGLE POLE OR TRUSS
  - (XX') DEDUCTED FROM BARRIER LENGTH



NOTE: FOR BARRIER OFFSETS, LANE WIDTHS, AND SHLDR. WIDTHS, SEE TYPICAL SECTIONS AND/OR ROADWAY PLAN SHEETS

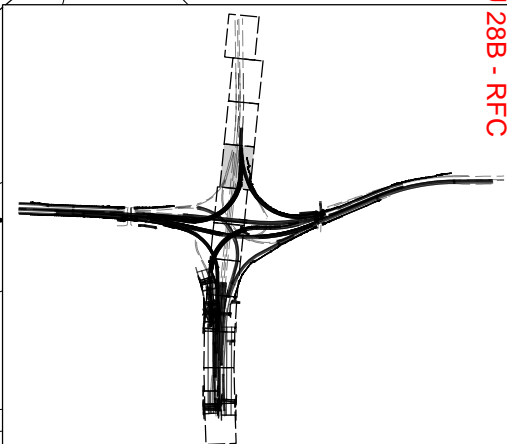
**BARRIER DETAILS**

2021-11-18 - BU 28B - RFC

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 8.24/9.74/0.00

83  
 86

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NO.	DATE	DESCRIPTION



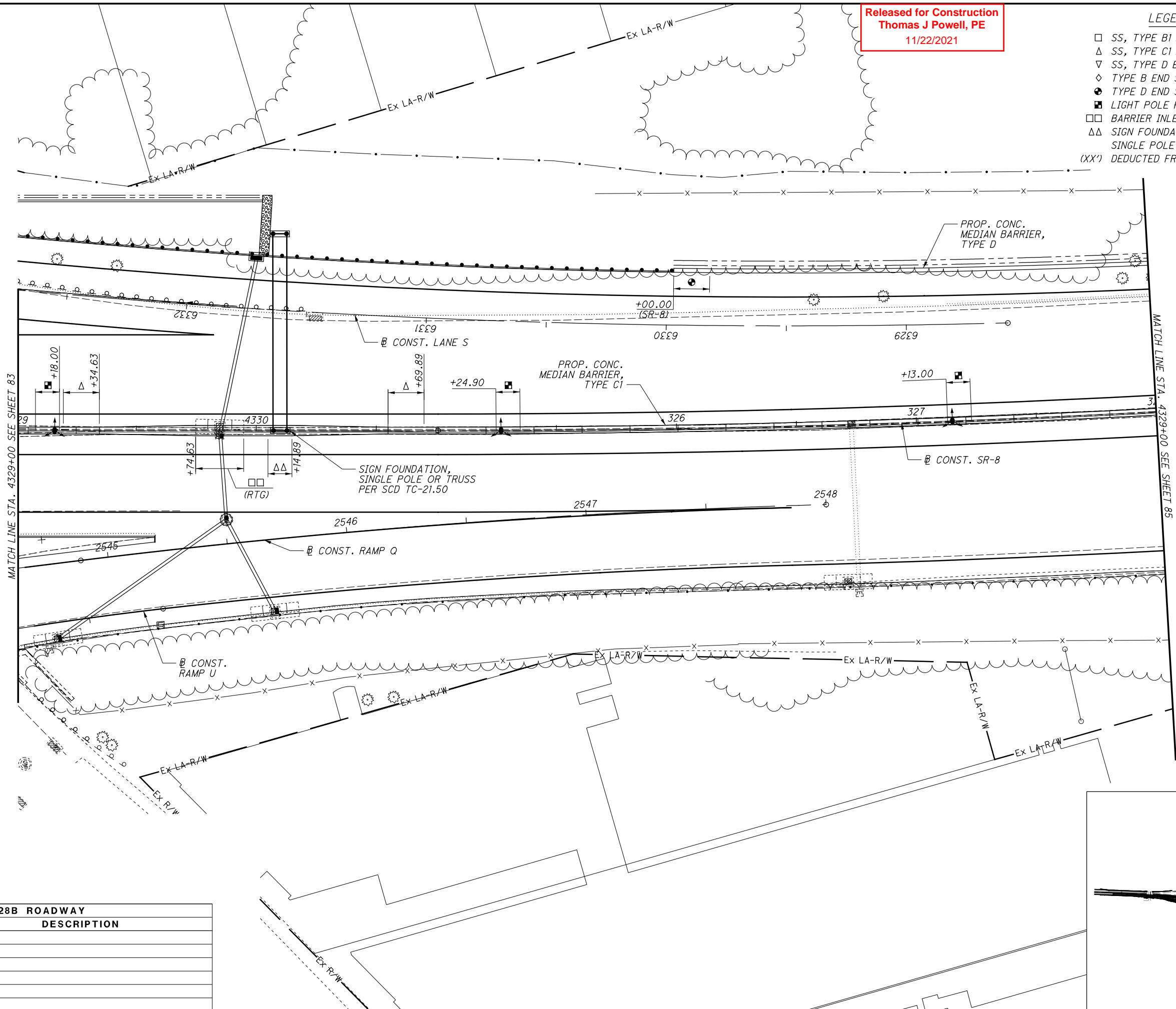
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**LEGEND**

- SS, TYPE B1 END ANCHOR (15'), SCD RM-4.3
- △ SS, TYPE C1 END ANCHOR (15'), SCD RM-4.3
- ▽ SS, TYPE D END ANCHOR (15'), SCD RM-4.5
- ◇ TYPE B END SECTION (30'), SCD RM-4.6
- ⊕ TYPE D END SECTION (14'), SCD RM-4.6
- LIGHT POLE FOUNDATION (8'), SCD HL-20.13
- BARRIER INLET (20'), SCD I-2.1, I-2.2, I-2.3
- △△ SIGN FOUNDATION (10'), SCD TC-21.50,  
SINGLE POLE OR TRUSS  
(XX') DEDUCTED FROM BARRIER LENGTH

  
 0 20 40  
 HORIZONTAL  
 SCALE IN FEET  
 CALCULATED CGL CHECKED MCK



MATCH LINE STA. 4329+00 SEE SHEET 83  
 MATCH LINE STA. 4339+00 SEE SHEET 85

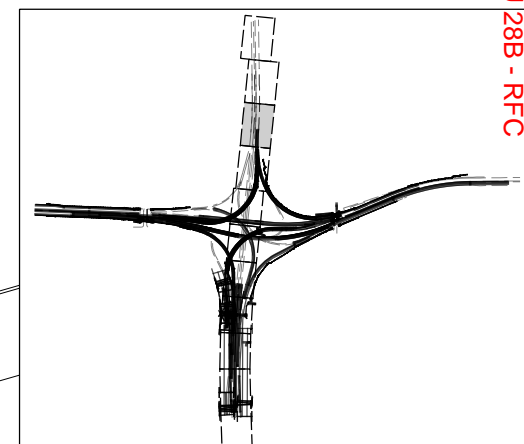
**BARRIER DETAILS**

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SUM-76/77  
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84  
 86

ISSUE RECORD: BU-28B ROADWAY		
NO.	DATE	DESCRIPTION



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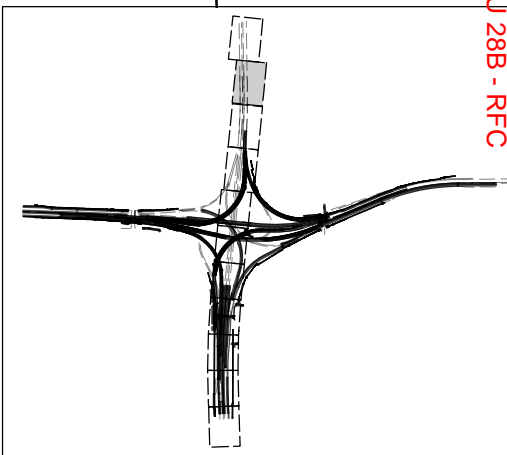
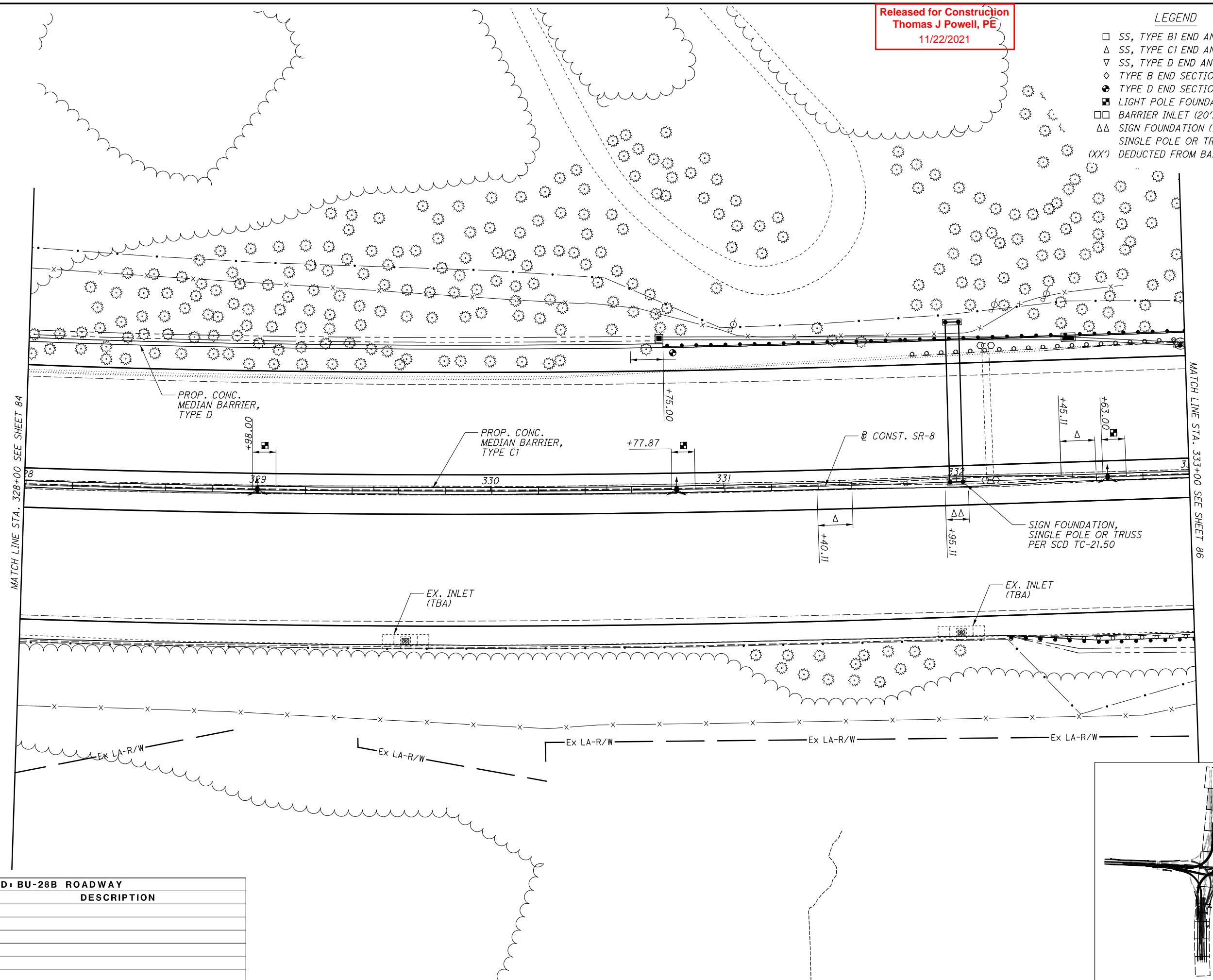
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**LEGEND**

- SS, TYPE B1 END ANCHOR (15'), SCD RM-4.3
- △ SS, TYPE C1 END ANCHOR (15'), SCD RM-4.3
- ▽ SS, TYPE D END ANCHOR (15'), SCD RM-4.5
- ◇ TYPE B END SECTION (30'), SCD RM-4.6
- ⊕ TYPE D END SECTION (14'), SCD RM-4.6
- LIGHT POLE FOUNDATION (8'), SCD HL-20.13
- BARRIER INLET (20'), SCD I-2.1, I-2.2, I-2.3
- △△ SIGN FOUNDATION (10'), SCD TC-21.50, SINGLE POLE OR TRUSS
- (XX') DEDUCTED FROM BARRIER LENGTH

CALCULATED  
CGL  
CHECKED  
MCK

HORIZONTAL  
SCALE IN FEET



ISSUE RECORD: BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

2021-11-18 - BU 28B - RFC

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 8.24 / 9.74 / 0.00

85  
 86

**BARRIER DETAILS**

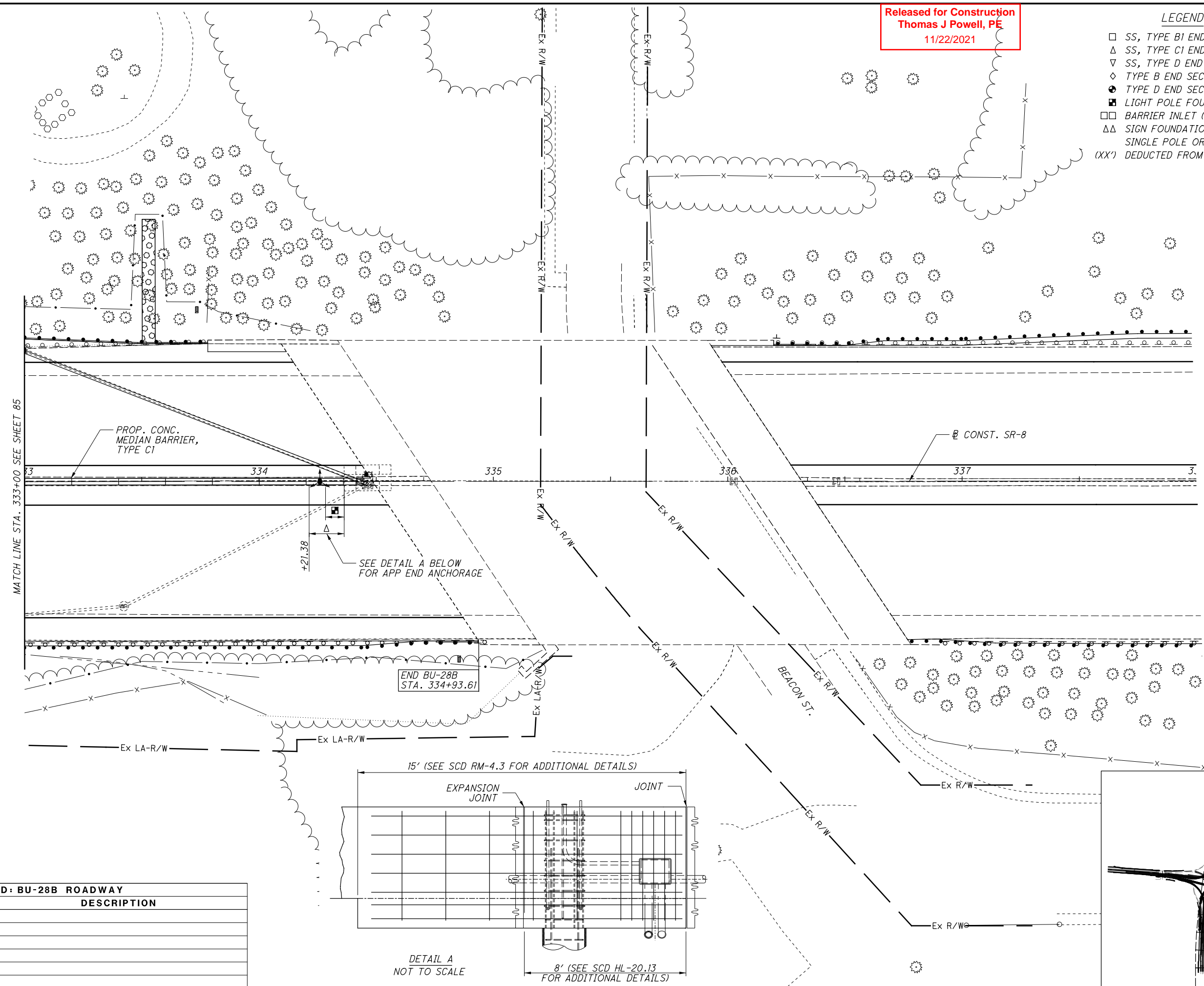
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**LEGEND**

- SS, TYPE B1 END ANCHOR (15'), SCD RM-4.3
- △ SS, TYPE C1 END ANCHOR (15'), SCD RM-4.3
- ▽ SS, TYPE D END ANCHOR (15'), SCD RM-4.5
- ◇ TYPE B END SECTION (30'), SCD RM-4.6
- TYPE D END SECTION (14'), SCD RM-4.6
- LIGHT POLE FOUNDATION (8'), SCD HL-20.13
- BARRIER INLET (20'), SCD I-2.1, I-2.2, I-2.3
- △△ SIGN FOUNDATION (10'), SCD TC-21.50, SINGLE POLE OR TRUSS
- (XX') DEDUCTED FROM BARRIER LENGTH

0 20 40  
 HORIZONTAL SCALE IN FEET  
 CALCULATED CGL CHECKED MCK



ISSUE RECORD: BU-28B ROADWAY		
NO.	DATE	DESCRIPTION

BARRIER DETAILS  
 2021-11-18 - BU 28B - RFC  
 SUM-76/77-8-00 / 77-7-00  
 8.24/9.74 0.00  
 86 / 86

