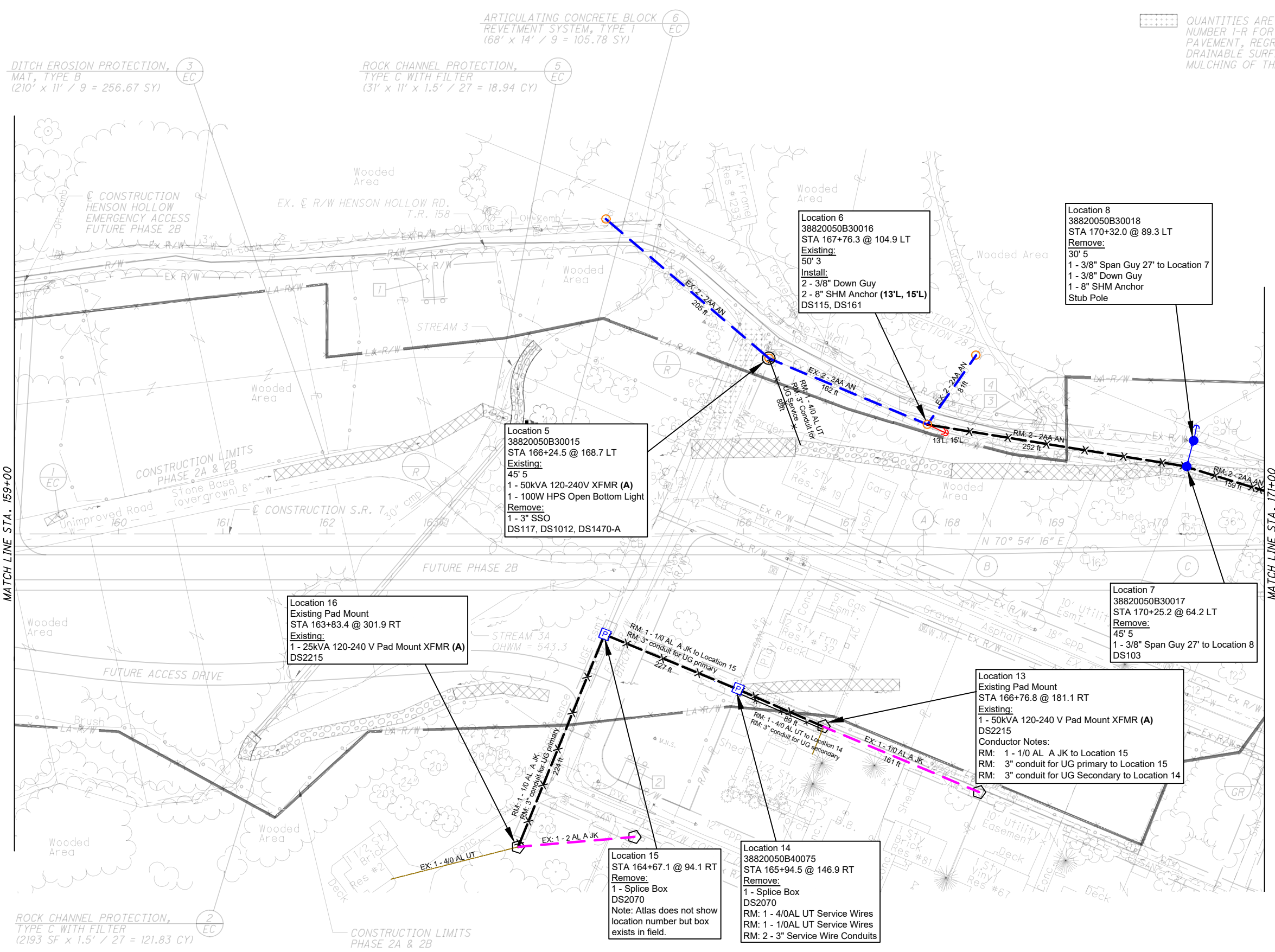


I:\17360874\LA\75923\roadway\sheet\75923GP005-2A.dgn 3/23/2023 11:05:23 AM SLParker



QUANTITIES ARE INCLUDED IN REFERENCE NUMBER 1-R FOR THE REMOVAL OF EXISTING PAVEMENT, REGRADING TO ENSURE A DRAINABLE SURFACE AND SEEDING AND MULCHING OF THE AREA SHOWN.

CALCULATED SLP CHECKED ALB

0 50 100 HORIZONTAL SCALE IN FEET

PLAN - S.R. 7  
STA. 159+00 TO STA. 171+00

AW-7-2.17

DITCH EROSION PROTECTION, MAT, TYPE B (210' x 11' / 9 = 256.67 SY)

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (31' x 11' x 1.5' / 27 = 18.94 CY)

ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (68' x 14' / 9 = 105.78 SY)

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (2193 SF x 1.5' / 27 = 121.83 CY)

SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE T (20' x 7.5' / 9 = 16.67 SY)

**Location 16**  
Existing Pad Mount  
STA 163+83.4 @ 301.9 RT  
Existing:  
1 - 25kVA 120-240 V Pad Mount XFMR (A)  
DS2215

**Location 5**  
38820050B30015  
STA 166+24.5 @ 168.7 LT  
Existing:  
45' 5"  
1 - 50kVA 120-240V XFMR (A)  
1 - 100W HPS Open Bottom Light  
Remove:  
1 - 3" SSO  
DS117, DS1012, DS1470-A

**Location 6**  
38820050B30016  
STA 167+76.3 @ 104.9 LT  
Existing:  
50' 3"  
Install:  
2 - 3/8" Down Guy  
2 - 8" SHM Anchor (13'L, 15'L)  
DS115, DS161

**Location 8**  
38820050B30018  
STA 170+32.0 @ 89.3 LT  
Remove:  
30' 5"  
1 - 3/8" Span Guy 27' to Location 7  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
Stub Pole

**Location 7**  
38820050B30017  
STA 170+25.2 @ 64.2 LT  
Remove:  
45' 5"  
1 - 3/8" Span Guy 27' to Location 8  
DS103

**Location 13**  
Existing Pad Mount  
STA 166+76.8 @ 181.1 RT  
Existing:  
1 - 50kVA 120-240 V Pad Mount XFMR (A)  
DS2215  
Conductor Notes:  
RM: 1 - 1/0 AL A JK to Location 15  
RM: 3" conduit for UG primary to Location 15  
RM: 3" conduit for UG Secondary to Location 14

**Location 14**  
38820050B40075  
STA 165+94.5 @ 146.9 RT  
Remove:  
1 - Splice Box  
DS2070  
RM: 1 - 4/0AL UT Service Wires  
RM: 1 - 1/0AL UT Service Wires  
RM: 2 - 3" Service Wire Conduits

**Location 15**  
STA 164+67.1 @ 94.1 RT  
Remove:  
1 - Splice Box  
DS2070  
Note: Atlas does not show location number but box exists in field.

|  |  |  |                    |  |  |
|--|--|--|--------------------|--|--|
| JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B |  |  | NON DESIGN ORDERS  |  |  |
| LOCATION: 049 Chesapeake Bypass                      |  |  | OWR:               |  |  |
| CITY: Chesapeake                                     |  |  | OPS:               |  |  |
| TWP: Union   |  |  | OWR:               |  |  |
| COUNTY: Lawrence                                     |  |  | OPS:               |  |  |
| AREA: 049  |  |  | QUAD:              |  |  |
| STATION: EAST PROCTORVILLE                           |  |  | MAP:               |  |  |
| CIRCUIT: CHESAPEAKE - 7429501                        |  |  | SCALE: 1:100       |  |  |
| VOLTAGE: 34kV  |  |  | SHEET: 1 of 18 REV |  |  |



CURVE DATA  
S.R. 7  
CURVE NO. 2

P.I. STA. 182+06.44     $\theta_s = 2^\circ 59' 44''$   
 $\Delta = 24^\circ 16' 14''$  (LT)     $L_s = 275.00'$   
 $D_c = 2^\circ 10' 43''$      $T_s = 703.26'$   
 $R = 2,630.00'$      $LT = 183.36'$   
 $T = 423.13'$      $ST = 91.69'$   
 $L = 839.08'$      $\theta_{max} = 5.51\%$   
 $E = 33.82'$     CS STA. 186+17.26  
TS STA. 175+03.18    ST STA. 188+92.26  
SC STA. 177+78.18

FOR PROFILE, SEE SHEET 34  
FOR DRIVE DETAILS, SEE SHEETS 272

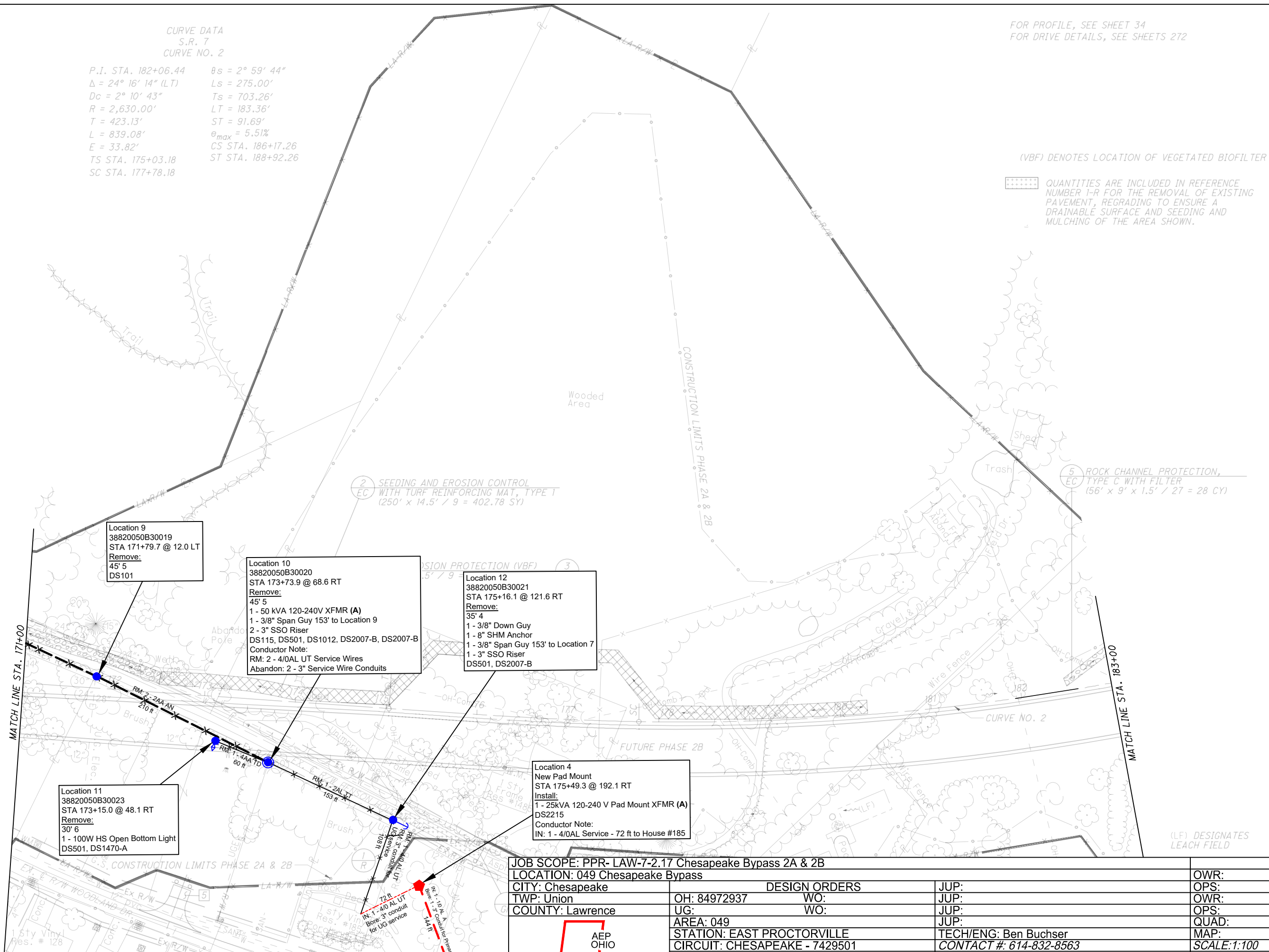


0 50 100  
HORIZONTAL  
SCALE IN FEET

CALCULATED SLP  
CHECKED ALB

(VBF) DENOTES LOCATION OF VEGETATED BIOFILTER

QUANTITIES ARE INCLUDED IN REFERENCE NUMBER I-R FOR THE REMOVAL OF EXISTING PAVEMENT, REGRADING TO ENSURE A DRAINABLE SURFACE AND SEEDING AND MULCHING OF THE AREA SHOWN.



2 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE T (250' x 14.5' / 9 = 402.78 SY)

5 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (56' x 9' x 1.5' / 27 = 28 CY)

Location 9  
38820050B30019  
STA 171+79.7 @ 12.0 LT  
Remove:  
45' 5  
DS101

Location 10  
38820050B30020  
STA 173+73.9 @ 68.6 RT  
Remove:  
45' 5  
1 - 50 kVA 120-240V XFMR (A)  
1 - 3/8" Span Guy 153' to Location 9  
2 - 3" SSO Riser  
DS115, DS501, DS1012, DS2007-B, DS2007-B  
Conductor Note:  
RM: 2 - 4/0AL UT Service Wires  
Abandon: 2 - 3" Service Wire Conduits

Location 12  
38820050B30021  
STA 175+16.1 @ 121.6 RT  
Remove:  
35' 4  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
1 - 3/8" Span Guy 153' to Location 7  
1 - 3" SSO Riser  
DS501, DS2007-B

Location 4  
New Pad Mount  
STA 175+49.3 @ 192.1 RT  
Install:  
1 - 25kVA 120-240 V Pad Mount XFMR (A)  
DS2215  
Conductor Note:  
IN: 1 - 4/0AL Service - 72 ft to House #185

Location 11  
38820050B30023  
STA 173+15.0 @ 48.1 RT  
Remove:  
30' 6  
1 - 100W HS Open Bottom Light  
DS501, DS1470-A

JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B  
LOCATION: 049 Chesapeake Bypass

CITY: Chesapeake  
TWP: Union  
COUNTY: Lawrence

DESIGN ORDERS  
OH: 84972937  
WO:  
WO:  
AREA: 049  
STATION: EAST PROCTORVILLE  
CIRCUIT: CHESAPEAKE - 7429501  
VOLTAGE: 34kV

JUP:  
JUP:  
JUP:  
JUP:  
TECH/ENG: Ben Buchser  
CONTACT #: 614-832-8563  
DATE: 2/24

NON DESIGN ORDERS  
OWR:  
OPS:  
OWR:  
OPS:  
QUAD:  
MAP:  
SCALE: 1:100  
SHEET: 2 of 18    REV

PLAN - S.R. 7  
STA. 171+00 TO STA. 183+00

LAW-7-2.17



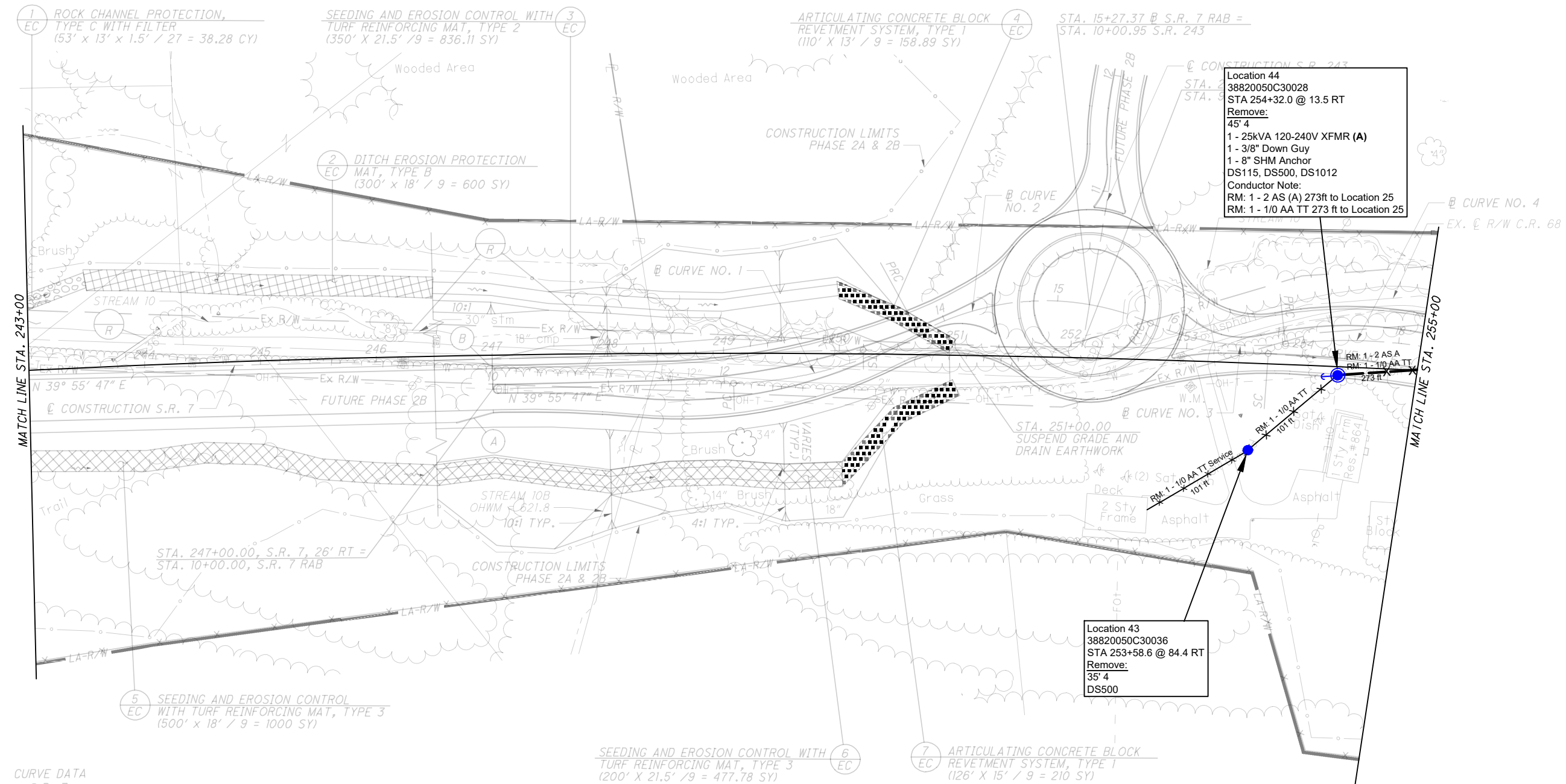








| CURVE DATA @ S.R. 7 RAB           | CURVE DATA @ S.R. 7 RAB           |
|-----------------------------------|-----------------------------------|
| CURVE NO. 1                       | CURVE NO. 2                       |
| P.I. Sta. 12+93.43                | P.I. Sta. 14+87.13                |
| $\Delta = 27^\circ 26' 21''$ (LT) | $\Delta = 52^\circ 43' 55''$ (RT) |
| $D_c = 16^\circ 22' 13''$         | $D_c = 25^\circ 27' 53''$         |
| $R = 350.00'$                     | $R = 225.00'$                     |
| $T = 85.45'$                      | $T = 111.52'$                     |
| $L = 167.62'$                     | $L = 207.08'$                     |
| $E = 10.28'$                      | $E = 26.12'$                      |
| PC Sta. 12+07.99                  | PRC Sta. 13+75.60                 |
| PRC Sta. 13+75.60                 | PRC Sta. 15+82.68                 |



Location 44  
38820050C30028  
STA 254+32.0 @ 13.5 RT  
Remove:  
45' 4  
1 - 25kVA 120-240V XFMR (A)  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
DS115, DS500, DS1012  
Conductor Note:  
RM: 1 - 2 AS (A) 273ft to Location 25  
RM: 1 - 1/0 AA TT 273 ft to Location 25


Location 43  
38820050C30036  
STA 253+58.6 @ 84.4 RT  
Remove:  
35' 4  
DS500

CURVE DATA  
S.R. 7  
CURVE NO. 5

|                                   |                               |
|-----------------------------------|-------------------------------|
| P.I. STA. 261+89.75               | $\theta_s = 5^\circ 41' 15''$ |
| $\Delta = 58^\circ 46' 06''$ (RT) | $L_s = 350.00'$               |
| $D_c = 3^\circ 15' 00''$          | $T_s = 1,169.30'$             |
| $R = 1,762.95'$                   | $LT = 233.45'$                |
| $T = 773.76'$                     | $ST = 116.78'$                |
| $L = 1,458.26'$                   | $e_{max} = 7.10\%$            |
| $E = 162.33'$                     | CS STA. 268+28.71             |
| TS STA. 250+20.45                 | ST STA. 271+78.71             |
| SC STA. 253+70.45                 |                               |

TAPERS PROVIDED FOR INFORMATION ONLY

- (A) - STA. 246+68.00  
BEGIN SHOULDER
- (A) - STA. 247+00.00  
END SHOULDER
- (B) - STA. 246+92.00  
BEGIN SHOULDER
- (B) - STA. 247+00.00  
END SHOULDER

| JOB SCOPE: PPR-LAW-7-2.17 Chesapeake Bypass 2A & 2B                                   |                               |     | NON DESIGN ORDERS       |     |  |
|---|-------------------------------|-----|-------------------------|-----|--|
| LOCATION: 049 Chesapeake Bypass   |                               |     |                         |     |  |
| CITY: Chesapeake  | DESIGN ORDERS                 |     | JUP:                    |     |  |
| TWP: Union  | OH: 84972937                  | WO: | JUP:                    |     |  |
| COUNTY: Lawrence  | UG:                           | WO: | JUP:                    |     |  |
|  | AREA: 049                     |     | JUP:                    |     |  |
|   | STATION: EAST PROCTORVILLE    |     | TECH/ENG: Ben Buchser   |     |  |
|   | CIRCUIT: CHESAPEAKE - 7429501 |     | CONTACT #: 614-832-8563 |     |  |
|   | VOLTAGE: 34kV                 |     | DATE: 2/2/24            |     |  |
|   |                               |     | OWR:                    |     |  |
|   |                               |     | OPS:                    |     |  |
|   |                               |     | OWR:                    |     |  |
|   |                               |     | OPS:                    |     |  |
|   |                               |     | QUAD:                   |     |  |
|   |                               |     | MAP:                    |     |  |
|   |                               |     | SCALE: 1:100            |     |  |
|   |                               |     | SHEET: 5 of 18          | REV |  |



0 50 100  
HORIZONTAL SCALE IN FEET

CALCULATED SLP  
CHECKED ALB

PLAN - S.R. 7  
STA. 255+00 TO STA. 267+00 (NORTH)

AW-7-2.17

CURVE DATA  
S.R. 7  
CURVE NO. 5

P.I. STA. 261+89.75  $\theta_s = 5^\circ 41' 15''$   
 $\Delta = 58^\circ 46' 0''$   
 $D_c = 3^\circ 15' 0''$   
 $R = 1,762.95'$   
 $T = 773.76'$   
 $L = 1,458.26'$   
 $E = 162.33'$   
 TS STA. 250+  
 SC STA. 253+70.45

Location 36  
New Pole  
STA 257+74.1 @ 638.6 LT  
Install:  
55' 3  
1 - 8' X-Arm  
DS301

Location 35  
New Pole  
STA 258+40.7 @ 712.3 LT  
Install:  
55' 3  
4 - 8' X-Arm  
4 - 3/8" Down Guy  
2 - 8" DHM Anchor (25'L, 25'L)  
DS340

Location 34  
New Pole  
STA 259+16.0 @ 556.8 LT  
Install:  
55' 2  
1 - 10' X-Arm  
DS301-4

Location 33  
New Pole  
STA 259+73.6 @ 452.7 LT  
Install:  
50' 3  
1 - 8' X-Arm  
DS301

Location 30  
New Pole  
STA 264+34.5 @ 432.9 LT  
Install:  
45' 2  
1 - 8' X-Arm  
DS301

Location 29  
New Pole  
STA 265+73.9 @ 490.6 LT  
Install:  
50' 2  
2 - 8' X-Arm  
2 - 3/8" Down Guy  
1 - 8" DHM Anchor (20'L)  
DS316-A

Location 37  
New Pole  
STA 257+3.0 @ 568.8 LT  
Install:  
60' 3  
2 - 8' X-Arm  
2 - 1/2" Down Guy  
2 - 8" DHM Anchor (25'L, 25'L)  
2 - 3/8" Down Guy  
2 - 8" SHM Anchor (20'L, 20'L)  
DS340

Location 32  
New Pole  
STA 260+36.4 @ 351.9 LT  
Install:  
50' 4  
4 - 8' X-Arm  
4 - 3/8" Down Guy  
2 - 8" DHM Anchor (25'L, 25'L)  
DS340

Location 31  
New Pole  
STA 262+90.5 @ 390.1 LT  
Install:  
50' 2  
2 - 8' X-Arm  
2 - 3/8" Down Guy  
1 - 8" DHM Anchor (20'L)  
DS316-A

Location 50  
38820050C30058  
STA 256+79.7 @ 456.5 LT  
Remove:  
50' 3  
2 - 8' X-Arm  
DS301  
Note:  
AEP to remove X-Arm, Conductor and Pole once  
Buckeye Rural Energy has removed circuit

Location 48  
38820050C30007  
STA 256+92.5 @ 421.0 LT  
Remove:  
45' 4  
2 - 8' X-Arm  
1 - 25kVA 120-240V XFMR (B)  
DS301, DS501

Location 53  
38820050C30004  
STA 262+28.3 @ 9.9 LT  
Remove:  
45' 5  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
DS303

Location 54  
38820050C30003  
STA 264+12.3 @ 2.3 LT  
Remove:  
45' 4  
1 - 8' X-Arm  
DS301

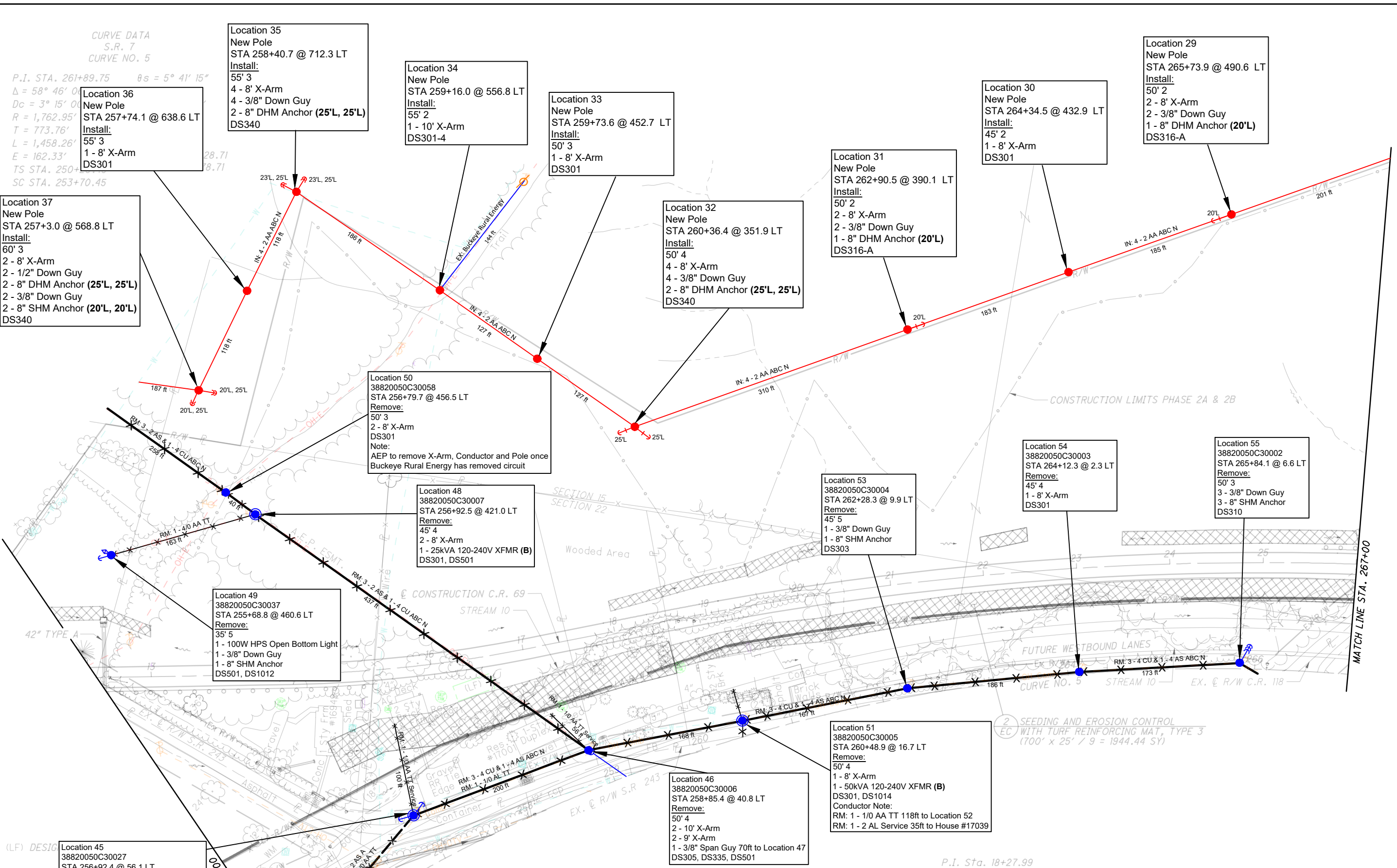
Location 55  
38820050C30002  
STA 265+84.1 @ 6.6 LT  
Remove:  
50' 3  
3 - 3/8" Down Guy  
3 - 8" SHM Anchor  
DS310

Location 49  
38820050C30037  
STA 255+68.8 @ 460.6 LT  
Remove:  
35' 5  
1 - 100W HPS Open Bottom Light  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
DS501, DS1012

Location 45  
38820050C30027  
STA 256+92.4 @ 56.1 LT  
Remove:  
45' 4  
2 - 9' X-Arm  
1 - Linecut Fuse Fuse Size (30T-A)  
1 - 25kVA 120-240V XFMR (B)  
2 - 3/8" Down Guy  
2 - 8" SHM Anchor  
DS315/316-D, DS501, DS1012  
RM: 1 - 2 AS A 273ft to Location 25  
RM: 1 - 1/0 AA TT 273 ft to Location 25

Location 46  
38820050C30006  
STA 258+85.4 @ 40.8 LT  
Remove:  
50' 4  
2 - 10' X-Arm  
2 - 9' X-Arm  
1 - 3/8" Span Guy 70ft to Location 47  
DS305, DS335, DS501

Location 51  
38820050C30005  
STA 260+48.9 @ 16.7 LT  
Remove:  
50' 4  
1 - 8' X-Arm  
1 - 50kVA 120-240V XFMR (B)  
DS301, DS1014  
Conductor Note:  
RM: 1 - 1/0 AA TT 118ft to Location 52  
RM: 1 - 2 AL Service 35ft to House #17039

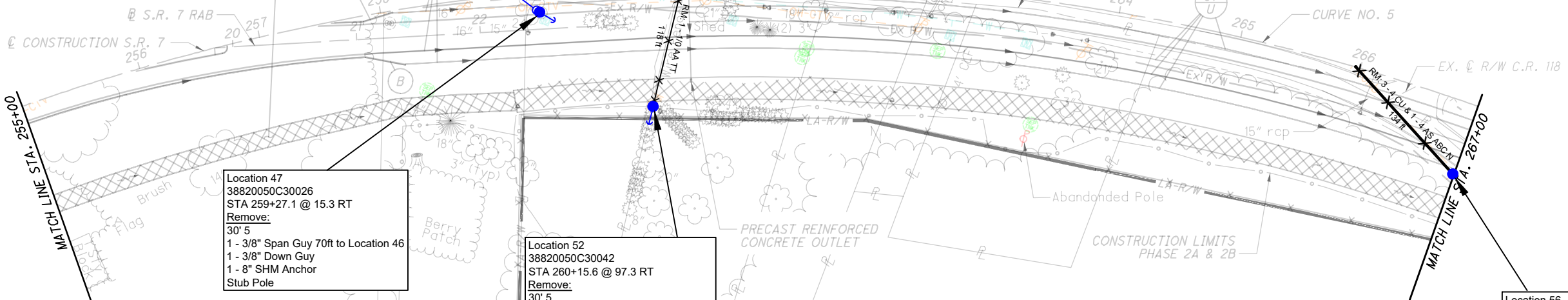


|  |                               |                         |     |
|--|-------------------------------|-------------------------|-----|
| JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B |                               | NON DESIGN ORDERS       |     |
| LOCATION: 049 Chesapeake Bypass                      |                               |                         |     |
| CITY: Chesapeake                                     | DESIGN ORDERS                 | JUP:                    |     |
| TWP: Union   | OH: 84972937                  | WO:                     |     |
| COUNTY: Lawrence                                     | UG:                           | WO:                     |     |
|  | AREA: 049                     | JUP:                    |     |
|  | STATION: EAST PROCTORVILLE    | TECH/ENG: Ben Buchser   |     |
|  | CIRCUIT: CHESAPEAKE - 7429501 | CONTACT #: 614-832-8563 |     |
|  | VOLTAGE: 34kV                 | DATE: 2/2/24            |     |
|  |                               |                         |     |
|  |                               | OWR:                    |     |
|  |                               | OPS:                    |     |
|  |                               | OWR:                    |     |
|  |                               | OPS:                    |     |
|  |                               | QUAD:                   |     |
|  |                               | MAP:                    |     |
|  |                               | SCALE: 1:100            |     |
|  |                               | SHEET: 6 of 18          | REV |

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SEEDING AND EROSION CONTROL  
WITH TURF REINFORCING MAT, TYPE 1  
(382' x 14.5' / 9 = 615.44 SY)



Location 47  
38820050C30026  
STA 259+27.1 @ 15.3 RT  
Remove:  
30' 5  
1 - 3/8" Span Guy 70ft to Location 46  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
Stub Pole

Location 52  
38820050C30042  
STA 260+15.6 @ 97.3 RT  
Remove:  
30' 5  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
DS501  
Conductor Note:  
RM: 1 - 1/0 AA TT 118ft to Location 51

Location 56  
38820050C30001  
STA 266+99.2 @ 59.1 RT  
Remove:  
50' 3  
2 - 8' X-Arm  
DS301

- \* (A) - STA. 257+84.78  
BEGIN SHOULDER TAPER, 4.92' RT.  
STA. 258+09.36  
END SHOULDER TAPER, 1.71' RT.
- \* (B) - STA. 257+81.30  
BEGIN SHOULDER TAPER, 32.75' RT.  
STA. 258+12.87  
END SHOULDER TAPER, 44.33' RT.

\* USE TYPE 6 CURB TO TAPER  
SHOULDER. TAPER CURB HEIGHT  
FROM 0" TO 6" IN 10'.


CURVE DATA  
S.R. 7  
CURVE NO. 5  
P.I. STA. 261+89.75    θs = 5° 41' 15"  
A = 58° 46' 06" (RT)    Ls = 350.00'

CALCULATED SLP CHECKED ALB

0 50 100  
HORIZONTAL SCALE IN FEET

PLAN - S.R. 7  
STA. 255+00 TO STA. 267+00 (SOUTH)

AW-7-2.17

|   |                               |                         |                       |  |  |
|---|-------------------------------|-------------------------|-----------------------|--|--|
| JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B                                  |                               |                         | NON DESIGN ORDERS     |  |  |
| LOCATION: 049 Chesapeake Bypass   |                               |                         | OWR:                  |  |  |
| CITY: Chesapeake  |                               | DESIGN ORDERS           | OPS:                  |  |  |
| TWP: Union  | OH: 84972937                  | WO:                     | OWR:                  |  |  |
| COUNTY: Lawrence  | UG:                           | WO:                     | OPS:                  |  |  |
|  | AREA: 049                     | JUP:                    | QUAD:                 |  |  |
|   | STATION: EAST PROCTORVILLE    | TECH/ENG: Ben Buchser   | MAP:                  |  |  |
|   | CIRCUIT: CHESAPEAKE - 7429501 | CONTACT #: 614-832-8563 | SCALE: 1:100          |  |  |
|   | VOLTAGE: 34kV                 | DATE: 2/2/24            | SHEET: 7 of 18    REV |  |  |



100  
50  
25  
HORIZONTAL  
SCALE IN FEET

CALCULATED  
SLIP  
CHECKED  
ALB

PLAN - S.R. 7  
STA. 267+00 TO STA. 279+00

AW-7-2.17

2 DITCH EROSION PROTECTION  
EC MAT, TYPE B  
(300' x 35' / 9 = 1166.67 SY)

4 DITCH EROSION PROTECTION  
EC MAT, TYPE B  
(50' x 14.5' / 9 = 80.56 SY)

Location 25  
New Pole  
STA 269+65.3 @ 297.5 LT  
Install:  
50' 4  
2 - 9' X-Arm  
1 - 6" DSO Riser  
1 - 900Amp GOAB N\* SW:\*\*\*\*\*  
2 - 3/8" Down Guy  
1 - 8" DHM Anchor  
DS315-A, DS2325  
\*Difficult Location\*

Location 58  
38820051000350  
STA 268+46.0 @ 30.6 LT  
Remove:  
35' 5  
DS501  
Note: Frontier owns pole,  
Frontier to maintain ownership

Location 57  
38820051000121  
STA 268+34.2 @ 117.0 RT  
Remove:  
45' 4  
2 - 10' X-Arm  
1 - 25kVA 120-240V XFMR (A)  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
DS305, DS501, DS1014  
Note: Frontier owns pole,  
Frontier to maintain ownership


Location 24  
38820051000346  
STA 271+2.4 @ 157.9 RT  
Existing:  
45' 4  
Replace:  
2 - 9' X-Arm  
Install:  
1 - 6" DSO Riser  
1 - 900Amp GOAB N\* SW:\*\*\*\*\*  
2 - 3/8" Down Guy  
1 - 8" DHM Anchor (15'L)  
Remove:  
3 - 300 Amp Solid Blade Disconnect SW#40096 NC  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
DS315-A, DS2325

SEEDING AND EROSION CONTROL  
WITH TURF REINFORCING MAT, TYPE 3  
(150' x 25' / 9 = 416.67 SY)

3 SEEDING AND EROSION CONTROL  
EC WITH TURF REINFORCING MAT, TYPE 1  
(604' x 14.5' / 9 = 973.11 SY)

6 ROCK CHANNEL PROTECTION

FOR PROFILE, SEE SHEET 77

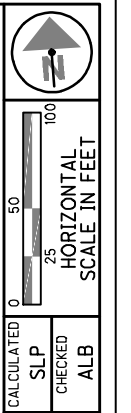
|   |                               |                         |       |
|---|-------------------------------|-------------------------|-------|
| JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B                                  |                               | NON DESIGN ORDERS       |       |
| LOCATION: 049 Chesapeake Bypass   |                               | OWR:                    |       |
| CITY: Chesapeake  | DESIGN ORDERS                 | OPS:                    |       |
| TWP: Union  | OH: 84972937 WO:              | JUP:                    | OWR:  |
| COUNTY: Lawrence  | UA:                           | JUP:                    | OPS:  |
|  | AREA: 049                     | JUP:                    | QUAD: |
|   | STATION: EAST PROCTORVILLE    | TECH/ENG: Ben Buchser   |       |
|   | CIRCUIT: CHESAPEAKE - 7429501 | CONTACT #: 614-832-8563 |       |
|   | VOLTAGE: 34kV                 | DATE: 2/2/24            |       |
|   |                               | JUP:                    | MAP:  |
|   |                               | SCALE: 1:100            |       |
|   |                               | SHEET: 8 of 18 REV      |       |

I:\173608714\AW-75923\roadway\sheets\75923CP014-2B.dgn Sheet 6/29/2022 11:51:44 AM SLParker



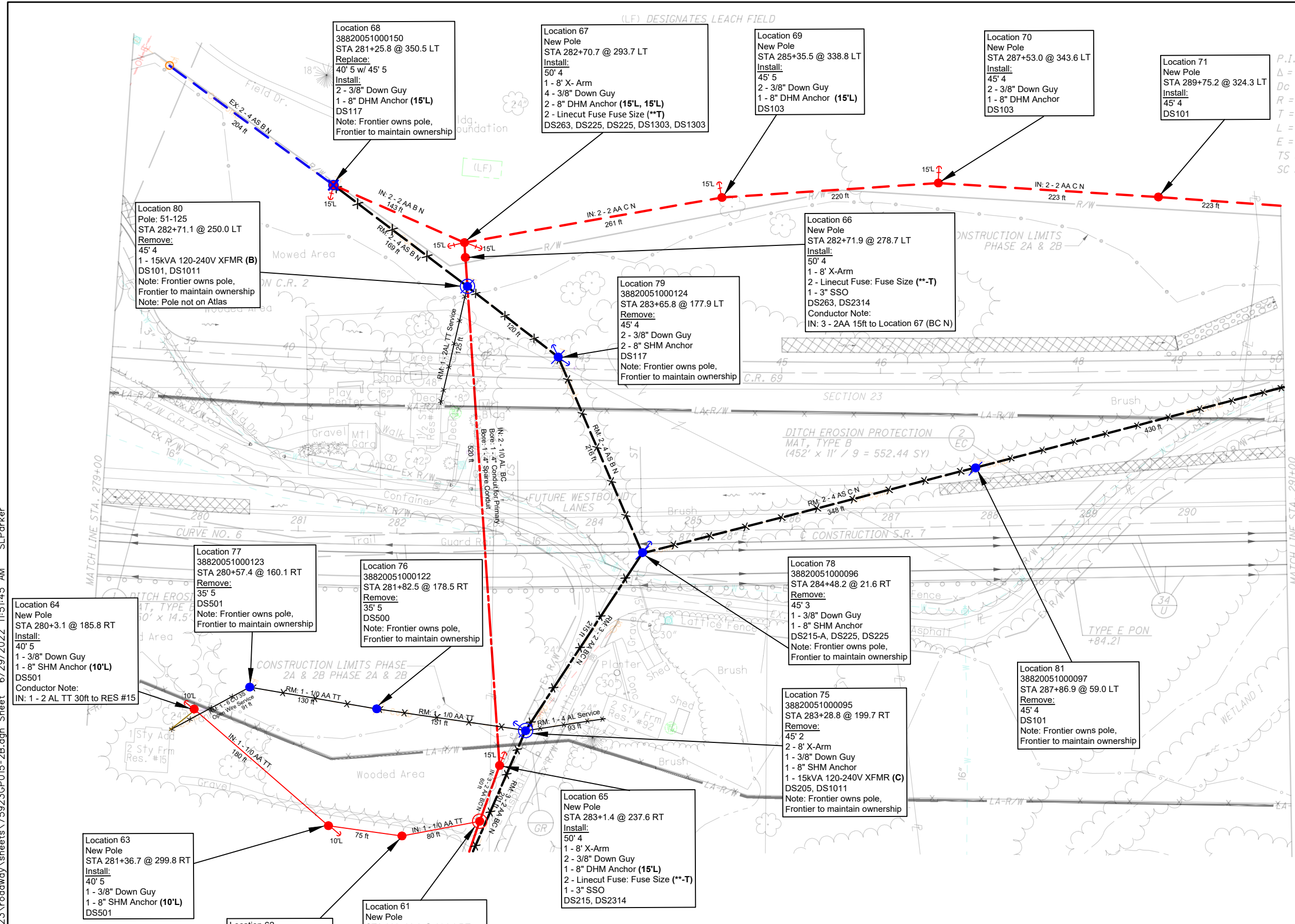
J:\173608714\AW\75923\roadway\sheets\75923\GP015-2B.dgn Sheet 6/29/2022 11:51:45 AM SLParker

CURVE DATA  
S.R. 7  
CURVE NO. 6  
P.I. STA. 280+92.68  $\theta_s = 0^\circ 37' 30''$   
 $\Delta = 5^\circ 51' 21''$  (RT)  $L_s = 125.00'$   
 $D_c = 1^\circ 00' 00''$   $T_s = 355.56'$   
 $R = 5,729.58'$   $LT = 83.33'$   
 $T = 230.42'$   $ST = 41.67'$   
 $L = 460.59'$   $e_{max} = 2.90\%$   
 $E = 4.63'$   $CS STA. 283+22.71$   
 $TS STA. 277+37.12$   $ST STA. 284+47.71$   
 $SC STA. 278+62.12$



PLAN - S.R. 7  
STA. 279+00 TO STA. 291+00

AW-7-2.17



Location 68  
38820051000150  
STA 281+25.8 @ 350.5 LT  
Replace:  
40' 5 w/ 45' 5  
Install:  
2 - 3/8" Down Guy  
1 - 8" DHM Anchor (15'L)  
DS117  
Note: Frontier owns pole,  
Frontier to maintain ownership

Location 67  
New Pole  
STA 282+70.7 @ 293.7 LT  
Install:  
50' 4  
1 - 8' X-Arm  
4 - 3/8" Down Guy  
2 - 8" DHM Anchor (15'L, 15'L)  
2 - Linecut Fuse Fuse Size (\*\*T)  
DS263, DS225, DS225, DS1303, DS1303

Location 69  
New Pole  
STA 285+35.5 @ 338.8 LT  
Install:  
45' 5  
2 - 3/8" Down Guy  
1 - 8" DHM Anchor (15'L)  
DS103

Location 70  
New Pole  
STA 287+53.0 @ 343.6 LT  
Install:  
45' 4  
2 - 3/8" Down Guy  
1 - 8" DHM Anchor  
DS103

Location 71  
New Pole  
STA 289+75.2 @ 324.3 LT  
Install:  
45' 4  
DS101

Location 80  
Pole: 51-125  
STA 282+71.1 @ 250.0 LT  
Remove:  
45' 4  
1 - 15kVA 120-240V XFMR (B)  
DS101, DS1011  
Note: Frontier owns pole,  
Frontier to maintain ownership  
Note: Pole not on Atlas

Location 66  
New Pole  
STA 282+71.9 @ 278.7 LT  
Install:  
50' 4  
1 - 8' X-Arm  
2 - Linecut Fuse: Fuse Size (\*\*-T)  
1 - 3" SSO  
DS263, DS2314  
Conductor Note:  
IN: 3 - 2AA 15ft to Location 67 (BC N)

Location 79  
38820051000124  
STA 283+65.8 @ 177.9 LT  
Remove:  
45' 4  
2 - 3/8" Down Guy  
2 - 8" SHM Anchor  
DS117  
Note: Frontier owns pole,  
Frontier to maintain ownership

Location 77  
38820051000123  
STA 280+57.4 @ 160.1 RT  
Remove:  
35' 5  
DS501  
Note: Frontier owns pole,  
Frontier to maintain ownership

Location 76  
38820051000122  
STA 281+82.5 @ 178.5 RT  
Remove:  
35' 5  
DS500  
Note: Frontier owns pole,  
Frontier to maintain ownership

Location 64  
New Pole  
STA 280+3.1 @ 185.8 RT  
Install:  
40' 5  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor (10'L)  
DS501  
Conductor Note:  
IN: 1 - 2 AL TT 30ft to RES #15

Location 78  
38820051000096  
STA 284+48.2 @ 21.6 RT  
Remove:  
45' 3  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
DS215-A, DS225, DS225  
Note: Frontier owns pole,  
Frontier to maintain ownership

Location 81  
38820051000097  
STA 287+86.9 @ 59.0 LT  
Remove:  
45' 4  
DS101  
Note: Frontier owns pole,  
Frontier to maintain ownership

Location 75  
38820051000095  
STA 283+28.8 @ 199.7 RT  
Remove:  
45' 2  
2 - 8' X-Arm  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
1 - 15kVA 120-240V XFMR (C)  
DS205, DS1011  
Note: Frontier owns pole,  
Frontier to maintain ownership

Location 63  
New Pole  
STA 281+36.7 @ 299.8 RT  
Install:  
40' 5  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor (10'L)  
DS501

Location 62  
New Pole  
STA 282+7.4 @ 309.3 RT  
Install:  
40' 5  
DS501

Location 61  
New Pole  
STA 282+82.2 @ 294.1 RT  
Install:  
50' 4  
1 - 8' X-Arm  
1 - 15kVA 120/240V XFMR (C)  
DS201, DS501, DS1011

Location 65  
New Pole  
STA 283+1.4 @ 237.6 RT  
Install:  
50' 4  
1 - 8' X-Arm  
2 - 3/8" Down Guy  
1 - 8" DHM Anchor (15'L)  
2 - Linecut Fuse: Fuse Size (\*\*-T)  
1 - 3" SSO  
DS215, DS2314

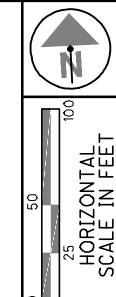
|  |                               |                         |                |
|--|-------------------------------|-------------------------|----------------|
| JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B |                               | NON DESIGN ORDERS       |                |
| LOCATION: 049 Chesapeake Bypass                      |                               |                         |                |
| CITY: Chesapeake                                     | DESIGN ORDERS                 | JUP:                    | OWR:           |
| TWP: Union   | OH: 84972937                  | WO:                     | OPS:           |
| COUNTY: Lawrence                                     | UG:                           | WO:                     | OWR:           |
|  | AREA: 049                     | JUP:                    | OPS:           |
|  | STATION: EAST PROCTORVILLE    | JUP:                    | QUAD:          |
|  | CIRCUIT: CHESAPEAKE - 7429501 | TECH/ENG: Ben Buchser   | MAP:           |
|  | VOLTAGE: 34kV                 | CONTACT #: 614-832-8563 | SCALE: 1:100   |
|  |                               | DATE: 2/2/24            | SHEET: 9 of 18 |
|  |                               |                         | REV            |







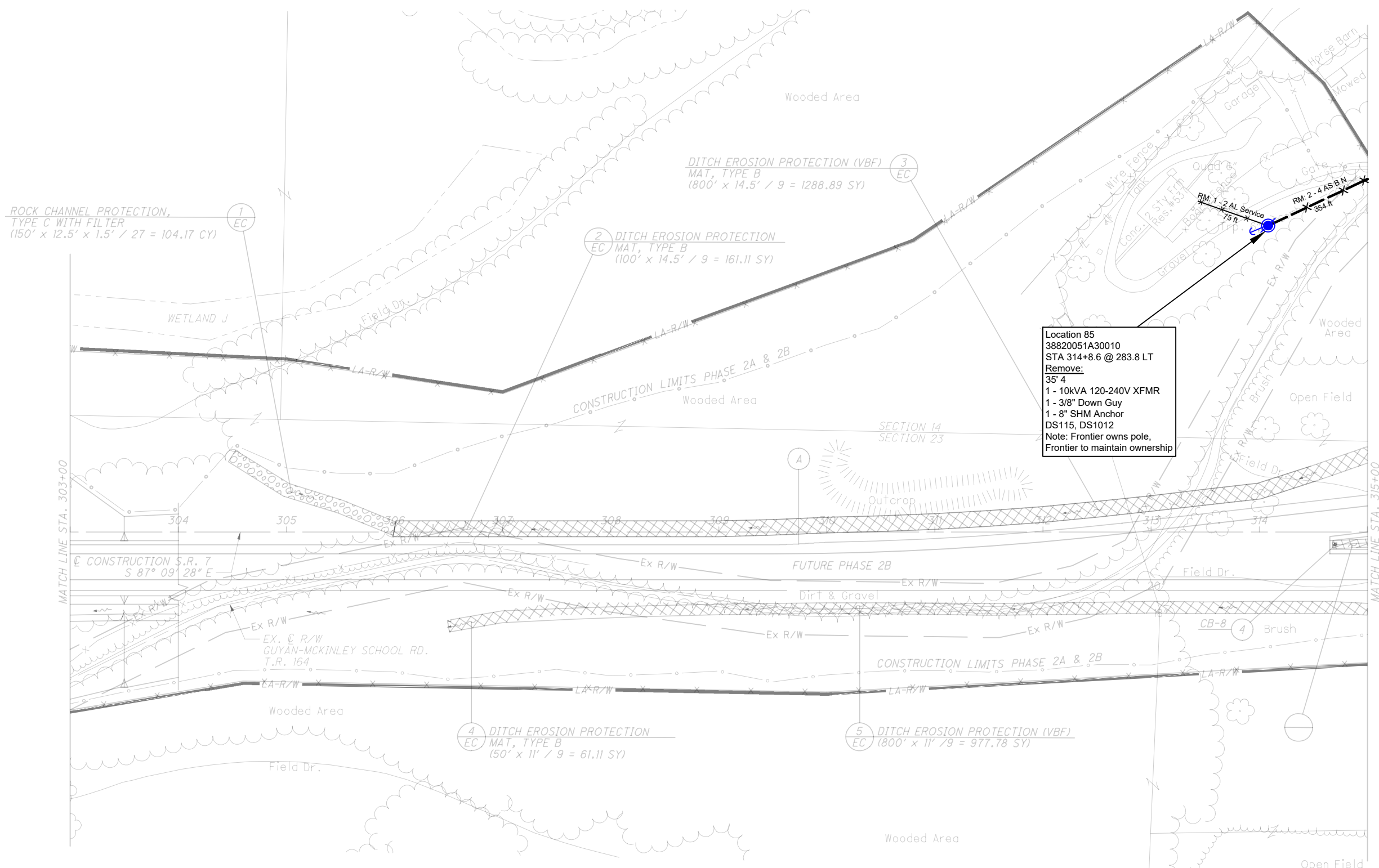
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CALCULATED SLP CHECKED ALB

PLAN - S.R. 7  
STA. 303+00 TO STA. 315+00


AW-7-2.17



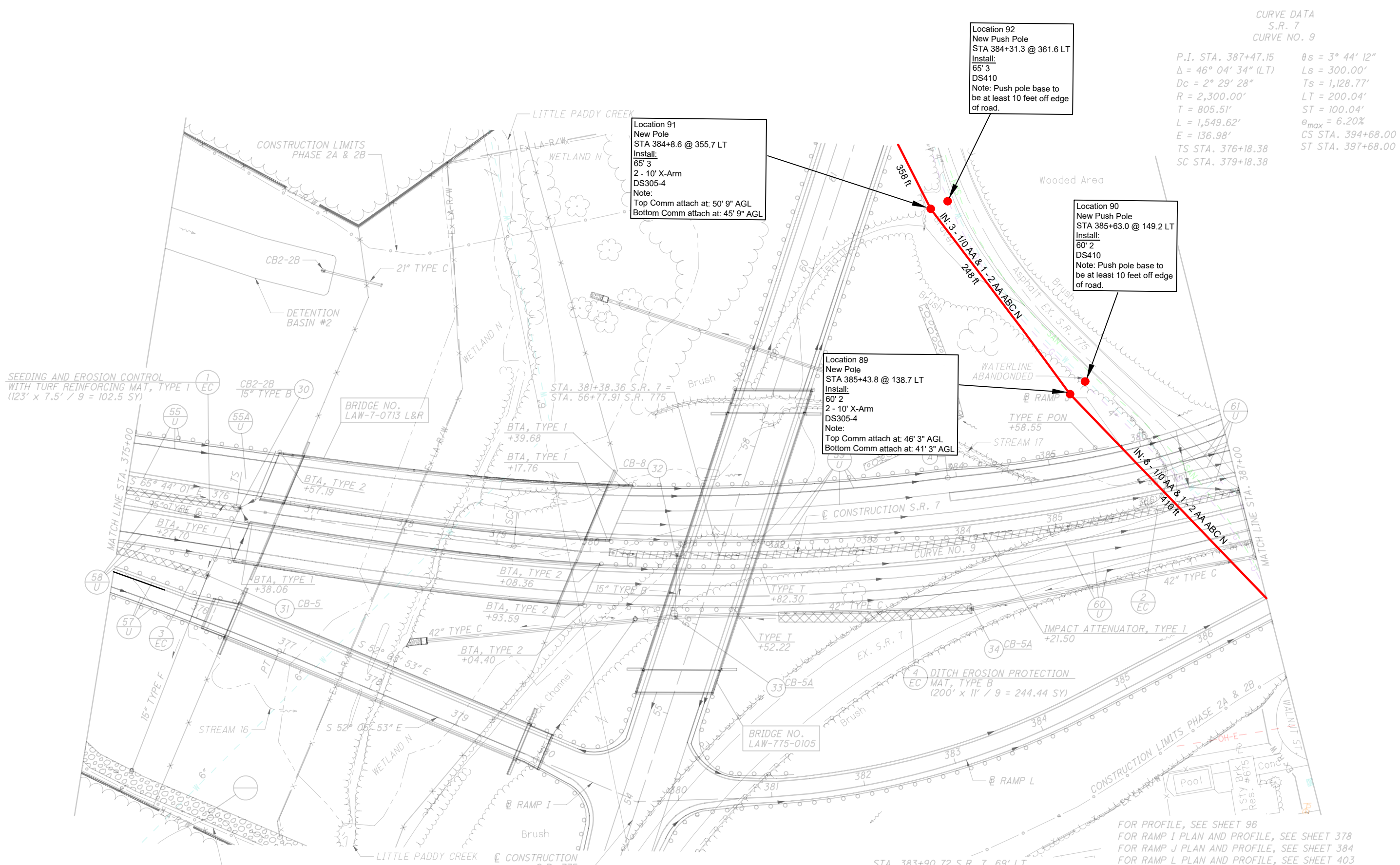
Location 85  
38820051A30010  
STA 314+8.6 @ 283.8 LT  
Remove:  
35' 4"  
1 - 10kVA 120-240V XFMR  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
DS115, DS1012  
Note: Frontier owns pole,  
Frontier to maintain ownership

**CURVE DATA**  
S.R. 7 LANE TRANSITION  
TRANSITION CURVE NO. 1  
(FOR HORIZONTAL LAYOUT ONLY)

P.I. Sta. 311+12.46, S.R. 7, 20' RT.  
Δ = 6° 29' 46" (LT)  
Dc = 2° 00' 00"  
R = 2,864.79'  
T = 162.58'  
L = 324.81'  
E = 4.61'  
θ<sub>max</sub> = NC  
PC STA. = 309+49.89, S.R. 7, 20' RT.  
PT STA. = 312+74.00, S.R. 7, 1.61' RT.

|   |                                |     |                         |              |  |
|---|--------------------------------|-----|-------------------------|--------------|--|
| JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B                                  |                                |     | NON DESIGN ORDERS       |              |  |
| LOCATION: 049 Chesapeake Bypass   |                                |     |                         |              |  |
| CITY: Chesapeake  | DESIGN ORDERS                  |     | JUP:                    | OWR:         |  |
| TWP: Union  | OH: 84972937                   | WO: | JUP:                    | OPS:         |  |
| COUNTY: Lawrence  | UG:                            | WO: | JUP:                    | OWR:         |  |
|  | AREA: 049                      |     | JUP:                    | OPS:         |  |
|   | STATION: PROCTORVILLE          |     | TECH/ENG: Ben Buchser   | QUAD:        |  |
|   | CIRCUIT: PROCTORVILLE - 741102 |     | CONTACT #: 614-832-8563 | MAP:         |  |
|   | VOLTAGE: 12kV                  |     | DATE: 2/2/24            | SCALE: 1:100 |  |
|   |                                |     | SHEET: 11 of 18 REV     |              |  |

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**CURVE DATA**  
S.R. 7  
CURVE NO. 9

P.I. STA. 387+47.15     $\theta_s = 3^\circ 44' 12''$   
 $\Delta = 46^\circ 04' 34''$  (LT)     $L_s = 300.00'$   
 $D_c = 2^\circ 29' 28''$      $T_s = 1,128.77'$   
 $R = 2,300.00'$      $LT = 200.04'$   
 $L = 805.51'$      $ST = 100.04'$   
 $T = 1,549.62'$      $e_{max} = 6.20\%$   
 $E = 136.98'$      $CS STA. 394+68.00$   
 $TS STA. 376+18.38$      $ST STA. 397+68.00$   
 $SC STA. 379+18.38$

CALCULATED  
SLP  
CHECKED  
ALB

0 50 100  
HORIZONTAL  
SCALE IN FEET

**PLAN - S.R. 7**  
**STA. 375+00 TO STA. 387+00**

**AW-7-2.17**

FOR PROFILE, SEE SHEET 96  
 FOR RAMP I PLAN AND PROFILE, SEE SHEET 378  
 FOR RAMP J PLAN AND PROFILE, SEE SHEET 384  
 FOR RAMP L PLAN AND PROFILE, SEE SHEET 403

|   |                                       |            |                                   |              |  |
|---|---------------------------------------|------------|-----------------------------------|--------------|--|
| <b>JOB SCOPE:</b> PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B |                                       |            | <b>NON DESIGN ORDERS</b>          |              |  |
| <b>LOCATION:</b> 049 Chesapeake Bypass                      |                                       |            |                                   |              |  |
| <b>CITY:</b> Chesapeake                                     | <b>DESIGN ORDERS</b>                  |            | <b>JUP:</b>                       | <b>OPR:</b>  |  |
| <b>TWP:</b> Union   | <b>OH:</b> 84972937                   | <b>WO:</b> | <b>JUP:</b>                       | <b>OPR:</b>  |  |
| <b>COUNTY:</b> Lawrence                                     | <b>UG:</b>                            | <b>WO:</b> | <b>JUP:</b>                       | <b>OPR:</b>  |  |
|   | <b>AREA:</b> 049                      |            | <b>JUP:</b>                       | <b>QUAD:</b> |  |
|   | <b>STATION:</b> PROCTORVILLE          |            | <b>TECH/ENG:</b> Ben Buchser      |              |  |
|   | <b>CIRCUIT:</b> PROCTORVILLE - 741102 |            | <b>CONTACT #:</b> 614-832-8563    |              |  |
|   | <b>VOLTAGE:</b> 12KV                  |            | <b>DATE:</b> 2/2/24               |              |  |
|   |                                       |            | <b>SCALE:</b> 1:100               |              |  |
|   |                                       |            | <b>SHEET:</b> 12 of 18 <b>REV</b> |              |  |

2 DI  
EC  
16

3 SE  
EC  
110





I:\173608714\LA\75923\roadway\sheets\75923CP024-2B.dgn Sheet 6/29/2022 11:52:08 AM SLParker

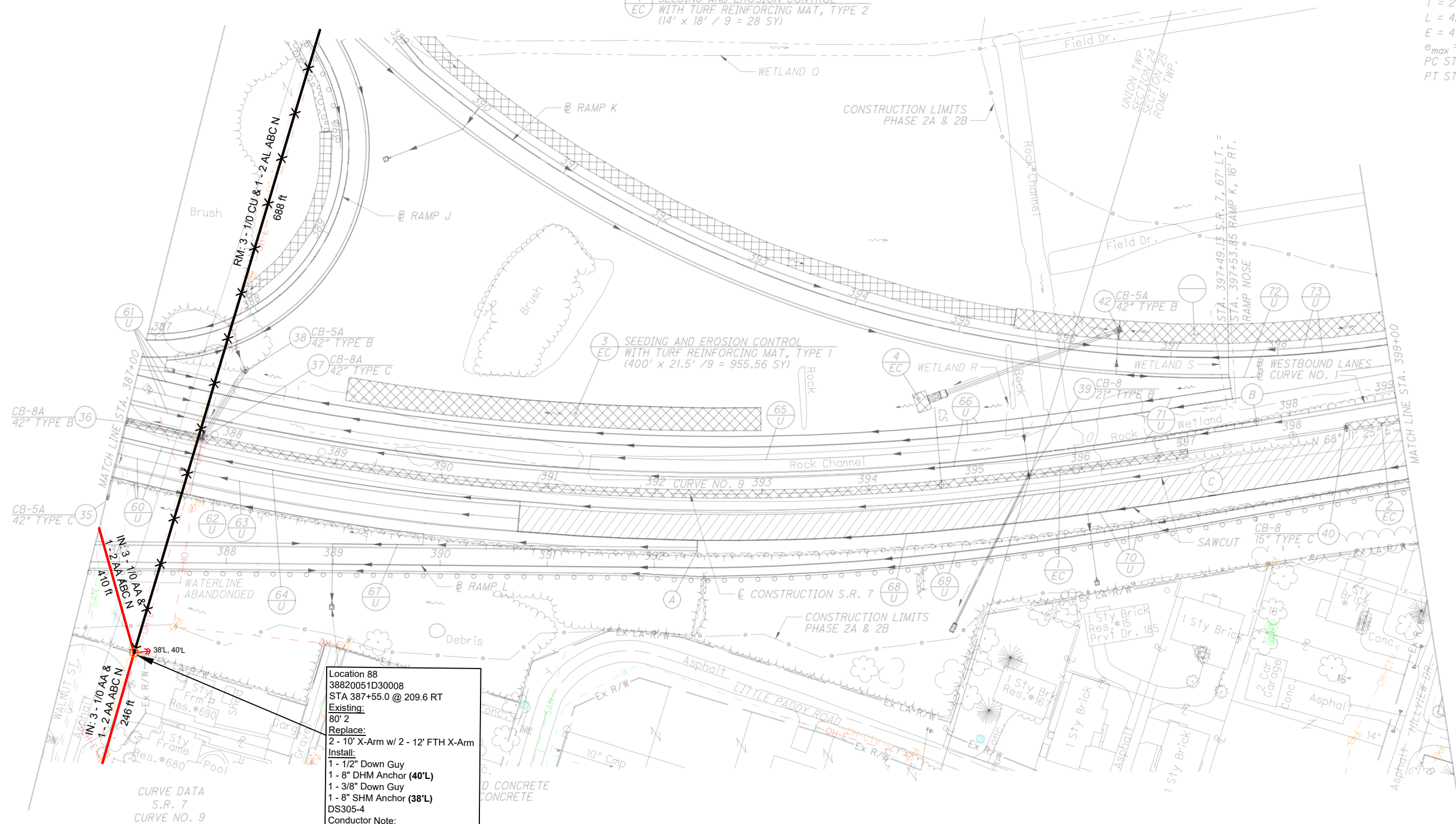
- 1 DITCH EROSION PROTECTION  
EC  
MAT, TYPE B  
(1000' x 7.5' / 9 = 833.33 SY)
- 2 DITCH EROSION PROTECTION  
EC  
(50' x 7.5' / 9 = 41.67 SY)
- 4 SEEDING AND EROSION CONTROL  
EC  
WITH TURF REINFORCING MAT, TYPE 2  
(14' x 18' / 9 = 28 SY)

CURVE DATA  
S.R. 7 WESTBOUND LANES  
@ CURVE NO. 1

P.I. STA. 399+82.71  
Δ = 4° 17' 32" (LT)  
Dc = 1° 00' 00"  
R = 5,729.58'  
T = 214.71'  
L = 429.22'  
E = 4.02'  
e<sub>max</sub> = 2.90%  
PC STA. = 397+68.00  
PT STA. = 401+97.22

CALCULATED SLP CHECKED ALB

0 50 100  
HORIZONTAL SCALE IN FEET



**Location 88**  
38820051D30008  
STA 387+55.0 @ 209.6 RT

**Existing:**  
80' 2"

**Replace:**  
2 - 10' X-Arm w/ 2 - 12' FTH X-Arm

**Install:**  
1 - 1/2" Down Guy  
1 - 8" DHM Anchor (40'L)  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor (38'L)  
DS305-4

**Conductor Note:**  
Install: 3 - 1/0 AA & 1 - 2 AA ABC N  
410ft to Location 89

**Note:**  
Top Comm attach at: 64' 3" AGL  
Bottom Comm attach at: 59' 3" AGL

P.I. STA. 387+47.15      θs = 3° 44' 12"  
Δ = 46° 04' 34" (LT)      Ls = 300.00'  
Dc = 2° 29' 28"      Ts = 1,128.77'  
R = 2,300.00'      ST = 100.04'  
T = 805.51'      e<sub>max</sub> = 6.20%  
L = 1,549.62'      CS STA. 394+68.00  
E = 136.98'      ST STA. 397+68.00  
TS STA. 376+18.38  
SC STA. 379+18.38

STA. 392+40.09 S.R. 7  
BEGIN PAVEMENT TAPER, 69' RT. =

|   |                                       |                          |  |
|---|---------------------------------------|--------------------------|--|
| <b>JOB SCOPE:</b> PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B |                                       | <b>NON DESIGN ORDERS</b> |  |
| <b>LOCATION:</b> 049 Chesapeake Bypass                      |                                       | OWR:                     |  |
| <b>CITY:</b> Chesapeake                                     | <b>DESIGN ORDERS</b>                  | OPS:                     |  |
| <b>TWP:</b> Union   | OH: 84972937      WO:                 | OWR:                     |  |
| <b>COUNTY:</b> Lawrence                                     | UG:      WO:                          | OPS:                     |  |
|   | <b>AREA:</b> 049                      | JUP:                     |  |
|   | <b>STATION:</b> PROCTORVILLE          | JUP:                     |  |
|   | <b>CIRCUIT:</b> PROCTORVILLE - 741102 | JUP:                     |  |
|   | <b>VOLTAGE:</b> 12kV                  | JUP:                     |  |
|   | <b>TECH/ENG:</b> Ben Buchser          | QUAD:                    |  |
|   | <b>CONTACT #:</b> 614-832-8563        | MAP:                     |  |
|   | <b>DATE:</b> 2/2/24                   | SCALE: 1:100             |  |
|   |                                       | SHEET: 13 of 18      REV |  |

PLAN - S.R. 7  
STA. 387+00 STA. 399+00

AW-7-2.17

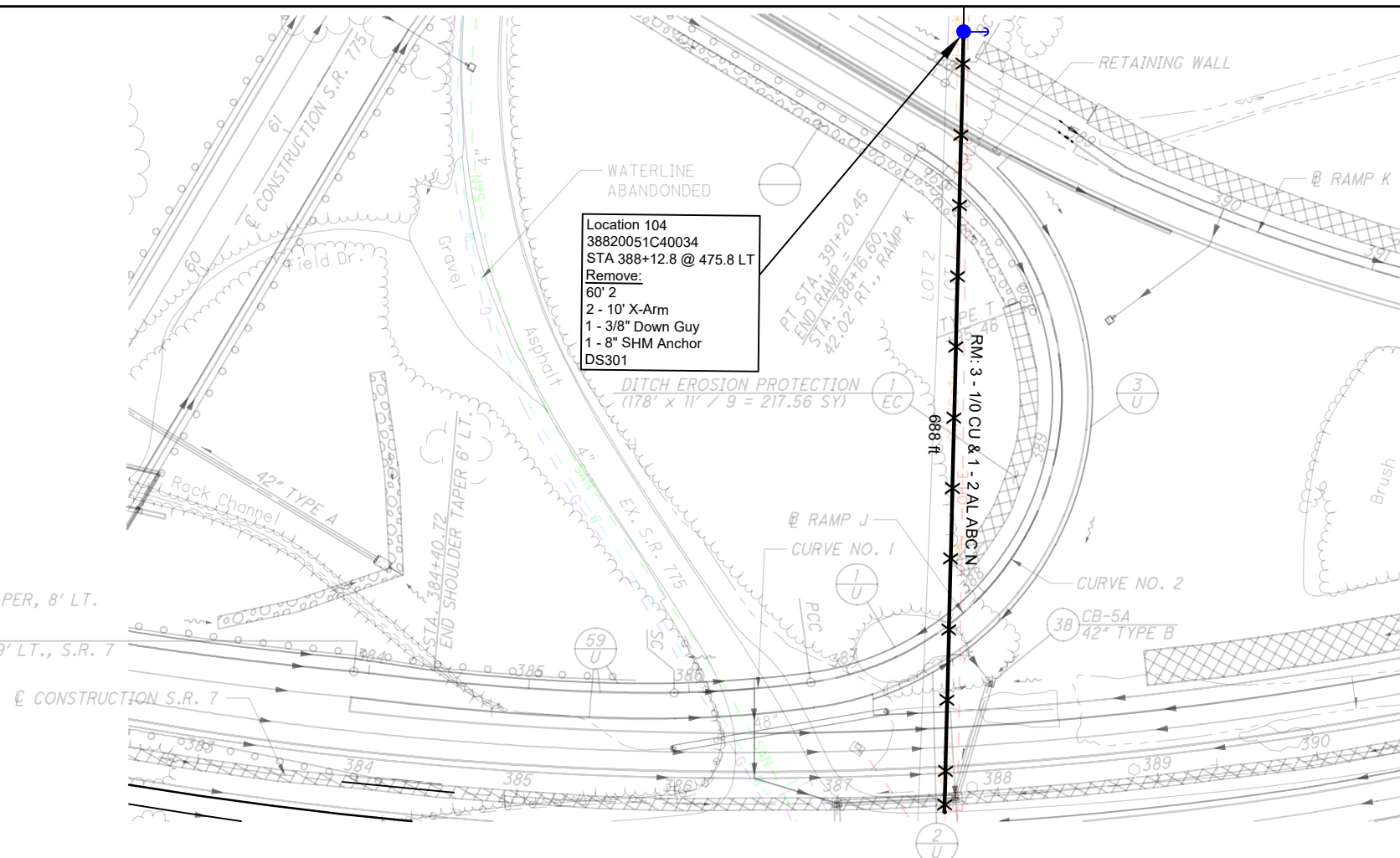
**CURVE DATA  
RAMP J  
CURVE NO. 1**

P.I. STA. 385+74.87  $\theta_{back} = 7^{\circ} 30' 00''$   
 $\Delta = 13^{\circ} 53' 07''$  (LT)  $L_{back} = 200.00'$   
 $Dc = 7^{\circ} 30' 00''$   $T_{back} = 184.15'$   
 $R = 763.94'$   $LT = 133.45'$   
 $T = 42.61'$   $ST = 66.78'$   
 $L = 85.14'$   $e_{max}$  (N.D.C.) = 8.00%  
 $E = 1.19'$   $e_{max} = 6.20\%$   
 TS STA. 383+90.72  $PCC$  STA. 386+75.86  
 SC STA. 385+90.72

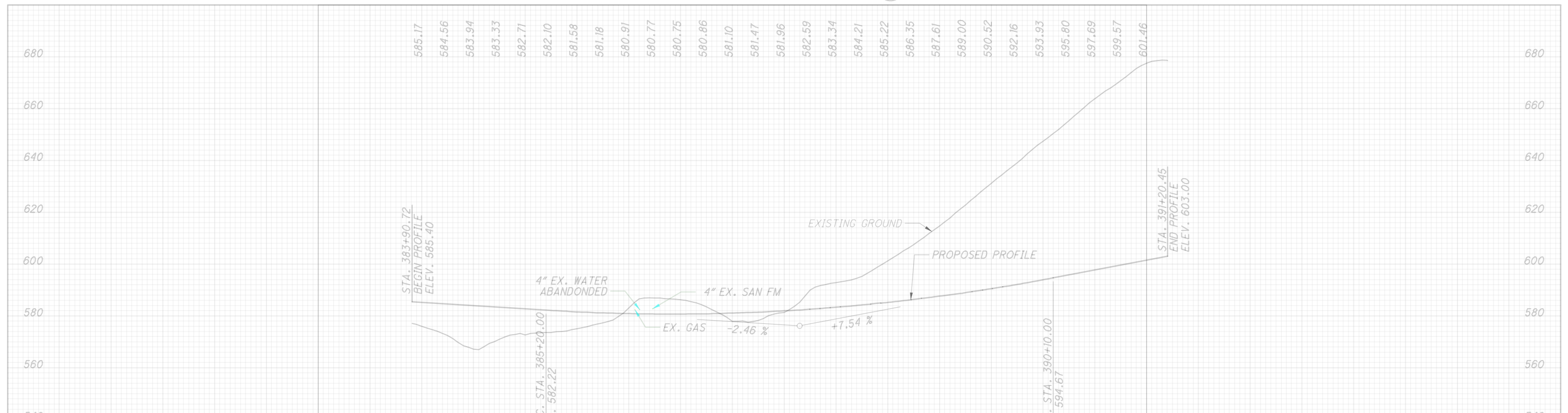
**CURVE DATA  
RAMP J  
CURVE NO. 2**

P.I. STA. 391+91.55  $\Delta = 141^{\circ} 31' 04''$  (LT)  
 $Dc = 31^{\circ} 49' 52''$   
 $R = 180.00'$   
 $T = 515.70'$   
 $L = 444.59'$   
 $E = 366.21'$   
 $e_{max} = 7.66\%$   
 $PCC$  STA. 386+75.86  
 PT STA. 391+20.45

ST STA. 383+90.72  
 BEGIN SHOULDER TAPER, 8' LT.  
 BEGIN RAMP  
 RAMP NOSE =  
 STA. 383+90.72, 69' LT., S.R. 7



FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 95-98  
 FOR RAMP K PLAN AND PROFILE, SEE SHEETS 389-390  
 FOR S.R. 775 PLAN & PROFILE, SEE SHEET 486-487  
 FOR INTERCHANGE DETAILS, SEE SHEETS 548-403  
 FOR STORM SEWER PROFILE, SEE SHEET 563  
 FOR CULVERT DETAILS, SEE SHEET 572  
 FOR UNDERDRAIN TABLES, SEE SHEETS 581-585  
 FOR RETAINING WALL DETAILS, SEE SHEETS 584-588  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 589-619



|  |                                |                         |  |
|--|--------------------------------|-------------------------|--|
| JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B |                                | NON DESIGN ORDERS       |  |
| LOCATION: 049 Chesapeake Bypass                      |                                | OWR:                    |  |
| CITY: Chesapeake                                     | DESIGN ORDERS                  | OPS:                    |  |
| TWP: Union   | OH: 84972937                   | OWR:                    |  |
| COUNTY: Lawrence                                     | UG:                            | OPS:                    |  |
|  | AREA: 049                      | QUAD:                   |  |
|  | STATION: PROCTORVILLE          | MAP:                    |  |
|  | CIRCUIT: PROCTORVILLE - 741102 | SCALE: 1:100            |  |
|  | VOLTAGE: 12KV                  | SHEET: 14 of 18 REV     |  |
| JUP:   |                                | TECH/ENG: Ben Buchser   |  |
| WO:  |                                | CONTACT #: 614-832-8563 |  |
| WO:  |                                | DATE: 2/24              |  |



CALCULATED 0  
 SLP 25  
 CHECKED ALB  
 HORIZONTAL SCALE IN FEET

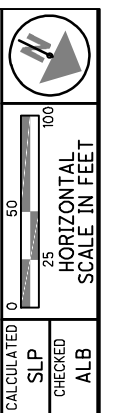
**PLAN AND PROFILE  
RAMP J**

**AW - 7 - 2.17**





FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 70-71  
 FOR INTERSECTION DETAILS, SEE SHEETS 553  
 FOR STORM SEWER PROFILE, SEE SHEET 564  
 FOR CULVERT DETAILS, SEE SHEET 568  
 FOR DRIVE DETAILS, SEE SHEETS 557-559  
 FOR DETENTION BASIN DETAILS, SEE SHEETS 577&580  
 FOR UNDERDRAIN TABLES, SEE SHEETS 581-585  
 FOR TRAFFIC CONTROL PLAN, SEE SHEETS 589-619



| CURVE DATA<br>S.R. 243<br>CURVE NO. 1 | CURVE DATA<br>S.R. 243<br>CURVE NO. 2 | CURVE DATA<br>S.R. 243<br>CURVE NO. 3 |
|---------------------------------------|---------------------------------------|---------------------------------------|
| P.I. Sta. 11+03.86                    | P.I. Sta. 11+99.38                    | P.I. Sta. 12+94.82                    |
| $\Delta = 6^\circ 51' 57''$ (LT)      | $\Delta = 13^\circ 36' 35''$ (RT)     | $\Delta = 6^\circ 05' 09''$ (RT)      |
| $Dc = 19^\circ 05' 55''$              | $Dc = 8^\circ 48' 53''$               | $Dc = 16^\circ 22' 13''$              |
| $R = 300.00'$                         | $R = 650.00'$                         | $R = 350.00'$                         |
| $T = 18.00'$                          | $T = 77.56'$                          | $T = 18.61'$                          |
| $L = 35.95'$                          | $L = 154.40'$                         | $L = 37.18'$                          |
| $E = 0.54'$                           | $E = 4.61'$                           | $E = 0.49'$                           |
| $e_{max} = 1.60\%$                    | $e_{max} = 1.60\%$                    | $e_{max} = 1.60\%$                    |
| PC Sta. 10+85.87                      | PRC Sta. 11+21.82                     | PCC Sta. 12+76.21                     |
| PRC Sta. 11+21.82                     | PCC Sta. 12+76.21                     | CS Sta. 13+13.39                      |

| CURVE DATA<br>S.R. 243<br>CURVE NO. 4 |                                |
|---------------------------------------|--------------------------------|
| P.I. Sta. 15+51.11                    | $\theta_s = 00^\circ 45' 00''$ |
| $\Delta = 5^\circ 37' 36''$ (LT)      | $L_s = 100.00'$                |
| $Dc = 1^\circ 30' 00''$               | $T_s = 237.72'$                |
| $R = 3,819.72'$                       | $LT = 66.67'$                  |
| $T = 137.62'$                         | $ST = 33.33'$                  |
| $L = 275.13'$                         | $e_{max} = 3.50\%$             |
| $E = 2.48'$                           | CS Sta. 16+88.52               |
| TS STA. 13+13.39                      | ST Sta. 17+88.52               |
| SC STA. 14+13.39                      |                                |

- \* (A) STA. 13+07.06  
BEGIN SHOULDER TAPER, 20.02' LT.  
STA. 13+15.05  
END SHOULDER TAPER, 22' LT.
- \* (B) STA. 13+06.93  
BEGIN SHOULDER TAPER, 31.95' RT.  
STA. 13+14.93  
END SHOULDER TAPER, 34' RT.

- (C) STA. 15+38.99  
BEGIN PAVEMENT TAPER, 22.63' RT.  
BEGIN SHOULDER TAPER, 26.63' RT.  
STA. 16+00.62  
END PAVEMENT TAPER, 18' RT.  
END SHOULDER TAPER, 22' RT.

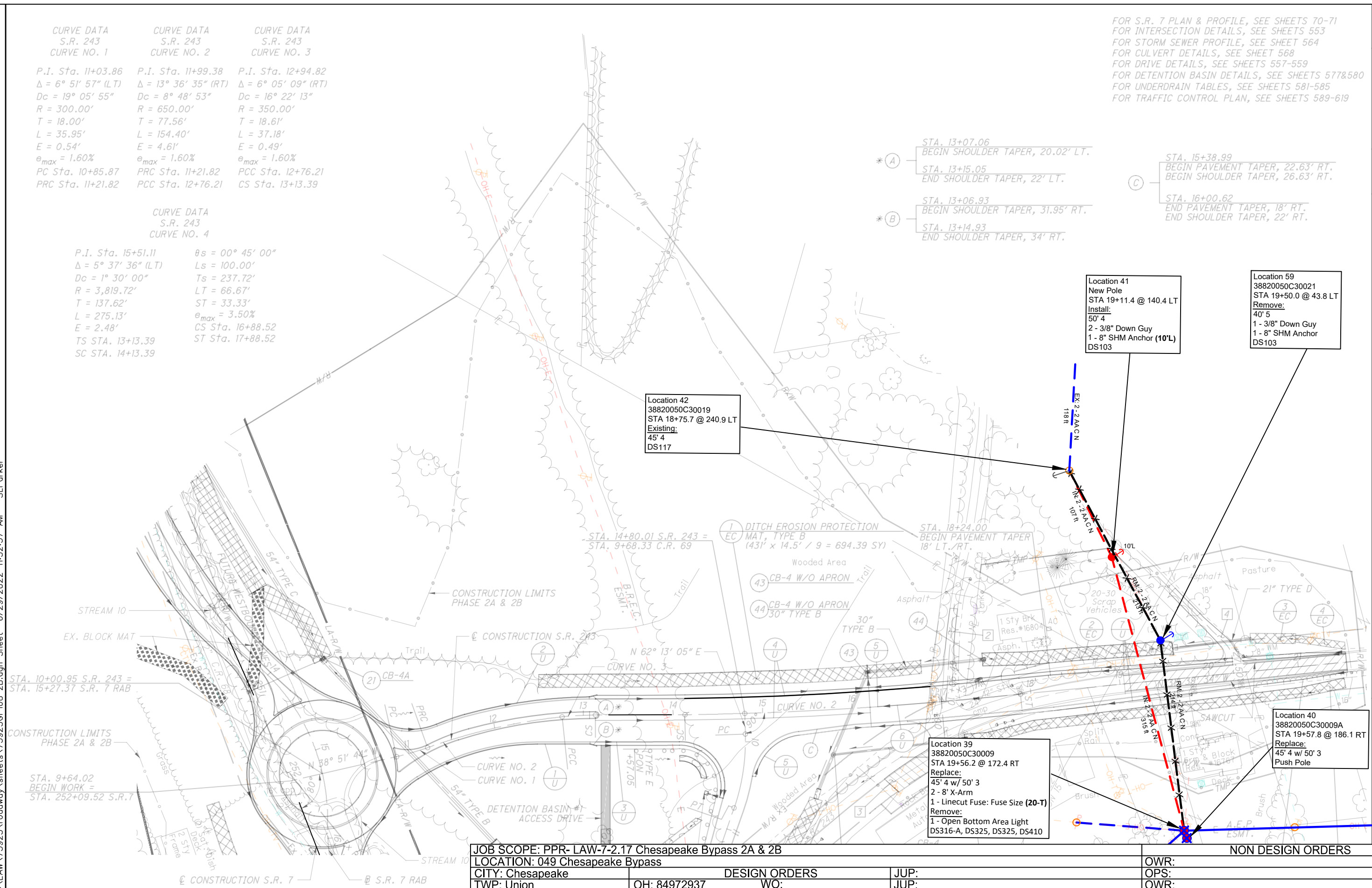
Location 41  
New Pole  
STA 19+11.4 @ 140.4 LT  
Install:  
50' 4  
2 - 3/8" Down Guy  
1 - 8" SHM Anchor (10'L)  
DS103

Location 59  
38820050C30021  
STA 19+50.0 @ 43.8 LT  
Remove:  
40' 5  
1 - 3/8" Down Guy  
1 - 8" SHM Anchor  
DS103

Location 42  
38820050C30019  
STA 18+75.7 @ 240.9 LT  
Existing:  
45' 4  
DS117

Location 39  
38820050C30009  
STA 19+56.2 @ 172.4 RT  
Replace:  
45' 4 w/ 50' 3  
2 - 8' X-Arm  
1 - Linecut Fuse: Fuse Size (20-T)  
Remove:  
1 - Open Bottom Area Light  
DS316-A, DS325, DS325, DS410

Location 40  
38820050C30009A  
STA 19+57.8 @ 186.1 RT  
Replace:  
45' 4 w/ 50' 3  
Push Pole



|  |                               |                         |                     |
|--|-------------------------------|-------------------------|---------------------|
| JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B |                               | NON DESIGN ORDERS       |                     |
| LOCATION: 049 Chesapeake Bypass                      |                               |                         |                     |
| CITY: Chesapeake                                     | DESIGN ORDERS                 | JUP:                    | OWR:                |
| TWP: Union   | OH: 84972937                  | WO:                     | OPS:                |
| COUNTY: Lawrence                                     | UG:                           | WO:                     | OWR:                |
|  | AREA: 049                     | JUP:                    | OPS:                |
|  | STATION: EAST PROCTORVILLE    | TECH/ENG: Ben Buchser   | QUAD:               |
|  | CIRCUIT: CHESAPEAKE - 7429501 | CONTACT #: 614-832-8563 | MAP:                |
|  | VOLTAGE: 12kV                 | DATE: 2/2/24            | SCALE: 1:100        |
|  |                               |                         | SHEET: 16 of 18 REV |

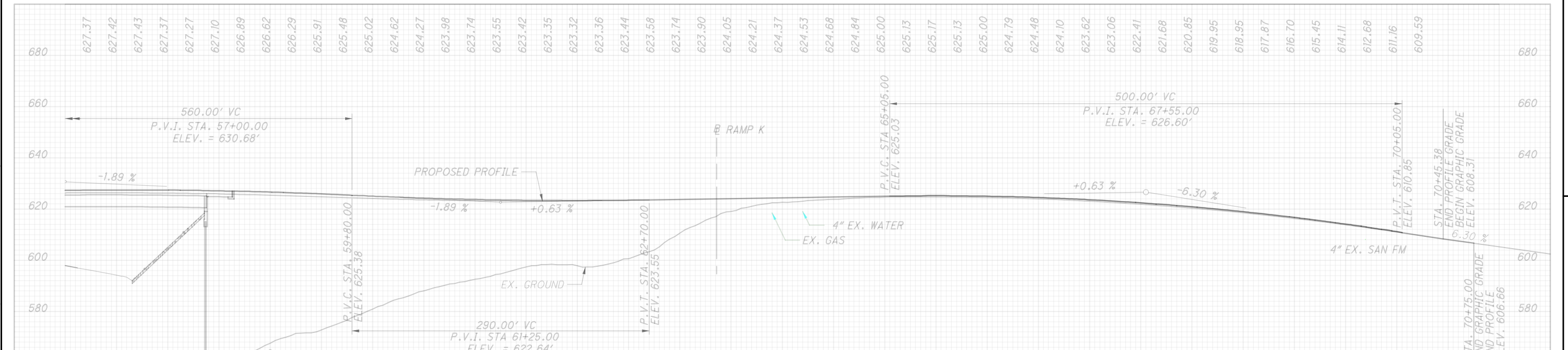
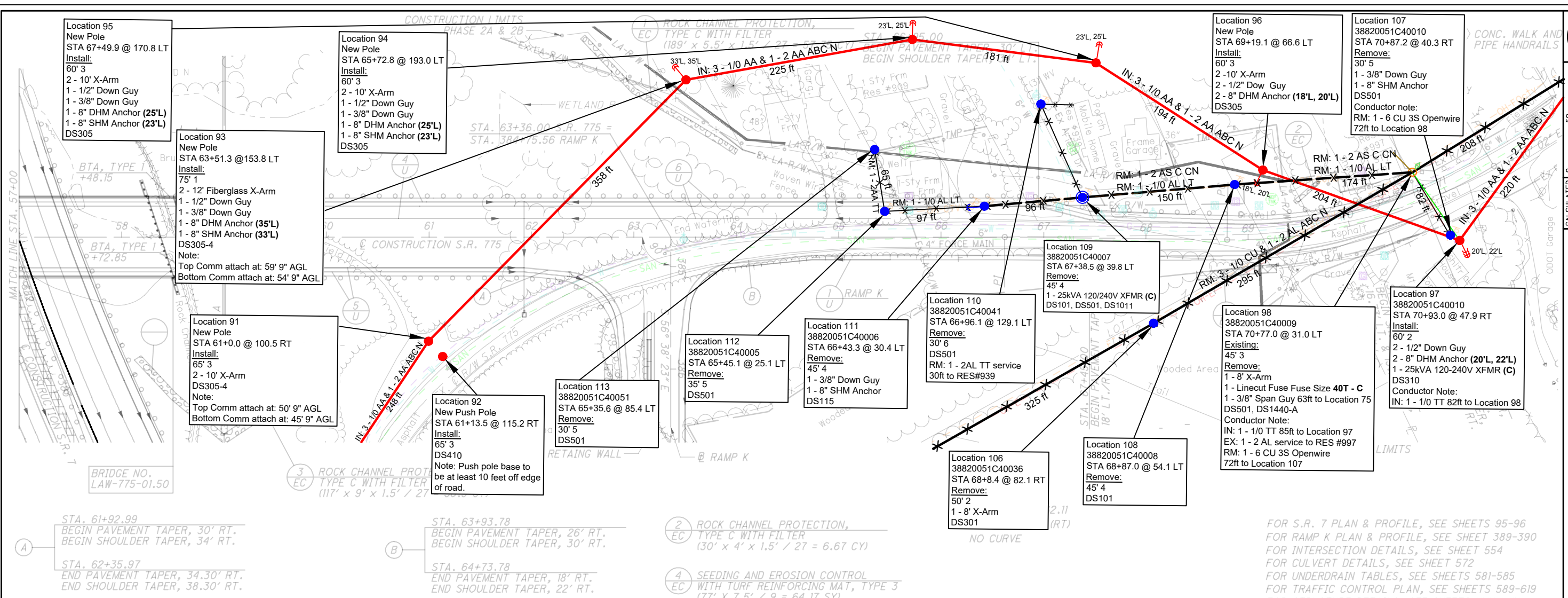
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PLAN  
S.R. 243

AW-7-2.17



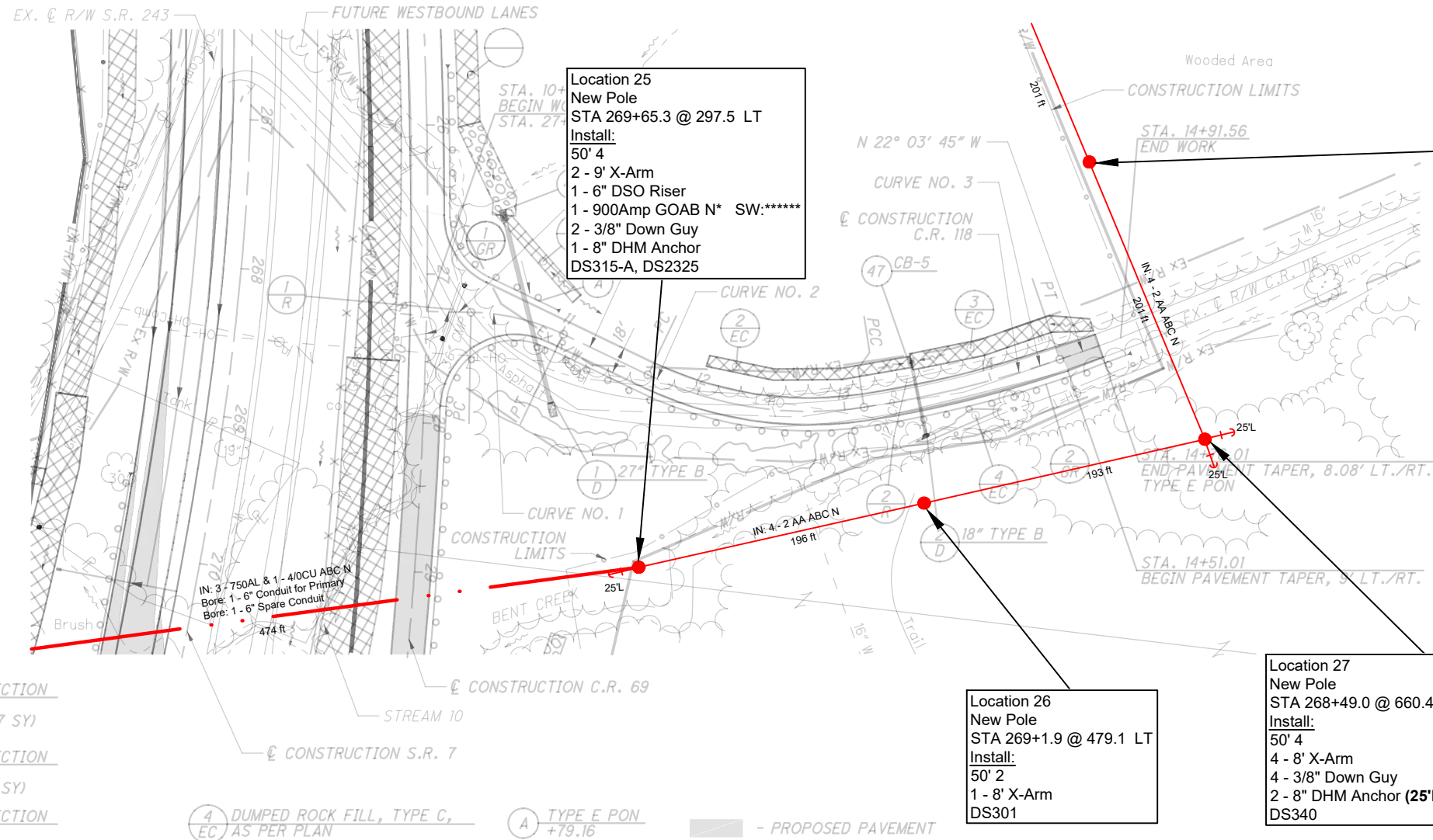
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**PLAN AND PROFILE - S.R. 775**  
**STA. 57+00.00 TO STA. 70+75.00**  
**AW-7-2.17**

|  |                                |                         |  |
|--|--------------------------------|-------------------------|--|
| JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B |                                | NON DESIGN ORDERS       |  |
| LOCATION: 049 Chesapeake Bypass                      |                                | OWR:                    |  |
| CITY: Chesapeake                                     | DESIGN ORDERS                  | OPS:                    |  |
| TWP: Union   | OH: 84972937                   | OWR:                    |  |
| COUNTY: Lawrence                                     | UG:                      WO:   | OPS:                    |  |
|  | AREA: 049                      | JUP:                    |  |
|  | STATION: PROCTORVILLE          | TECH/ENG: Ben Buchser   |  |
|  | CIRCUIT: PROCTORVILLE - 741102 | CONTACT #: 614-832-8563 |  |
|  | VOLTAGE: 12KV                  | DATE: 2/2/24            |  |
|  |                                | MAP:                    |  |
|  |                                | SCALE: 1:100            |  |
|  |                                | SHEET: 17 of 18         |  |
|  |                                | REV                     |  |

J:\173608714\Law\75923\roadway\sheet\75923OP113-2B.dgn 5/21/2024 4:57:52 PM SLParker



$\frac{1}{GR}$  - INCLUDES 50' OF 46' RADIUS SHOP CURVED GUARDRAIL

**Location 25**  
New Pole  
STA 269+65.3 @ 297.5 LT  
Install:  
50' 4  
2 - 9' X-Arm  
1 - 6" DSO Riser  
1 - 900Amp GOAB N\* SW:\*\*\*\*\*  
2 - 3/8" Down Guy  
1 - 8" DHM Anchor  
DS315-A, DS2325

**Location 28**  
New Pole  
STA 267+16.4 @ 568.3 LT  
Install:  
50' 2  
1 - 8' X-Arm  
DS301

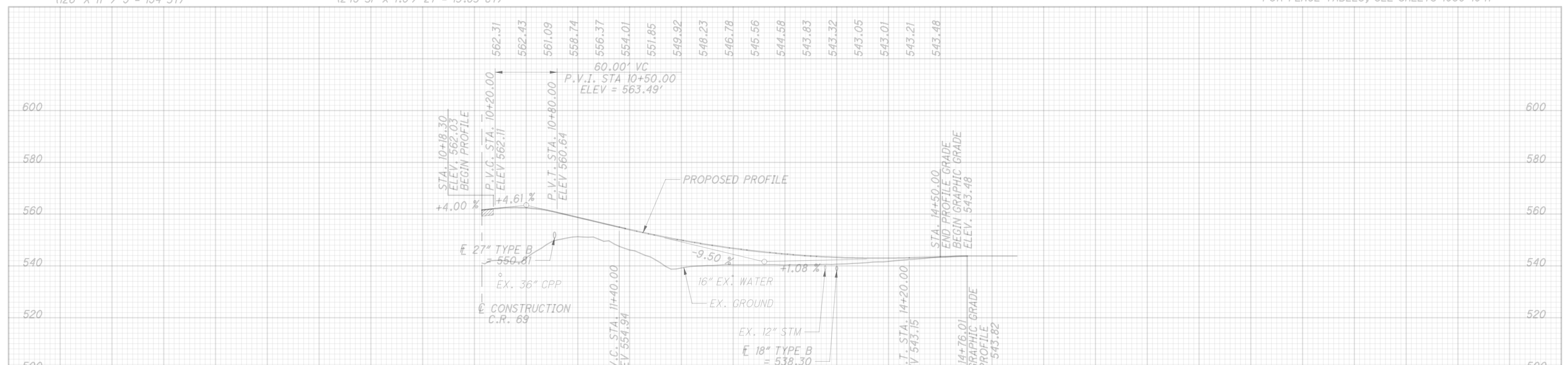
**Location 26**  
New Pole  
STA 269+1.9 @ 479.1 LT  
Install:  
50' 2  
1 - 8' X-Arm  
DS301

**Location 27**  
New Pole  
STA 268+49.0 @ 660.4 LT  
Install:  
50' 4  
4 - 8' X-Arm  
4 - 3/8" Down Guy  
2 - 8" DHM Anchor (25'L, 25'L)  
DS340

| CURVE DATA                       | CURVE DATA                       | CURVE DATA                       |
|----------------------------------|----------------------------------|----------------------------------|
| C.R. 118                         | C.R. 118                         | C.R. 118                         |
| CURVE NO. 1                      | CURVE NO. 2                      | CURVE NO. 3                      |
| P.I. STA. 10+69.71               | P.I. STA. 12+40.87               | P.I. STA. 13+80.89               |
| $\Delta = 24^\circ 30' 05" (RT)$ | $\Delta = 34^\circ 13' 00" (LT)$ | $\Delta = 10^\circ 25' 10" (LT)$ |
| Dc = 38' 11" 50"                 | Dc = 23' 00' 00"                 | Dc = 7' 41' 27"                  |
| R = 150.00'                      | R = 249.11'                      | R = 745.00'                      |
| T = 32.57'                       | T = 76.68'                       | T = 67.93'                       |
| L = 64.14'                       | L = 148.77'                      | L = 135.48'                      |
| E = 3.49'                        | E = 11.53'                       | E = 3.09'                        |
| $e_{max} (N.D.C.) = 8.00\%$      | $e_{max} (N.D.C.) = 8.00\%$      | $e_{max} (N.D.C.) = 8.00\%$      |
| $e_{max} = NA$                   | $e_{max} = 6.80\%$               | $e_{max} = 3.98\%$               |
| PC STA. 10+37.14                 | PC STA. 11+64.19                 | PCC STA. 13+12.96                |
| STA. 11+01.28                    | PCC STA. 13+12.96                | PT STA. 14+48.44                 |

- 1 DITCH EROSION PROTECTION MAT, TYPE B (74' X 7.5' / 9 = 61.67 SY)
- 2 DITCH EROSION PROTECTION MAT, TYPE B (150' X 7.5' / 9 = 125 SY)
- 3 DITCH EROSION PROTECTION MAT, TYPE B (126' X 11' / 9 = 154 SY)
- 4 DUMPED ROCK FILL, TYPE C, AS PER PLAN (249 SF x 1.5' / 27 = 13.83 CY)
- A TYPE E PON +79.16

FOR QUANTITIES, SEE SHEETS 71-81  
FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 125-126  
FOR C.R. 69 PLAN & PROFILE, SEE SHEETS 502-507  
FOR INTERSECTION DETAILS, SEE SHEET 626  
FOR STORM SEWER PROFILES, SEE SHEETS 551 & 648  
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-733A  
FOR FENCE TABLES, SEE SHEETS 1039-1041



|  |                               |                         |  |
|--|-------------------------------|-------------------------|--|
| JOB SCOPE: PPR- LAW-7-2.17 Chesapeake Bypass 2A & 2B |                               | NON DESIGN ORDERS       |  |
| LOCATION: 049 Chesapeake Bypass                      |                               | OWR:                    |  |
| CITY: Chesapeake                                     | DESIGN ORDERS                 | OPS:                    |  |
| TWP: Union   | OH: 84972937                  | OWR:                    |  |
| COUNTY: Lawrence                                     | UG: WO:                       | OPS:                    |  |
|  | AREA: 049                     | QUAD:                   |  |
|  | STATION: EAST PROCTORVILLE    | MAP:                    |  |
|  | CIRCUIT: CHESAPEAKE - 7429501 | SCALE: 1:100            |  |
|  | VOLTAGE: 34kV                 | SHEET: 18 of 18 REV     |  |
| JUP:   |                               | TECH/ENG: Ben Buchser   |  |
| JUP:   |                               | CONTACT #: 614-832-8563 |  |
| JUP:   |                               | DATE: 2/2/24            |  |

**PLAN AND PROFILE**  
**C.R. 118**  
**AW - 7 - 2.17**

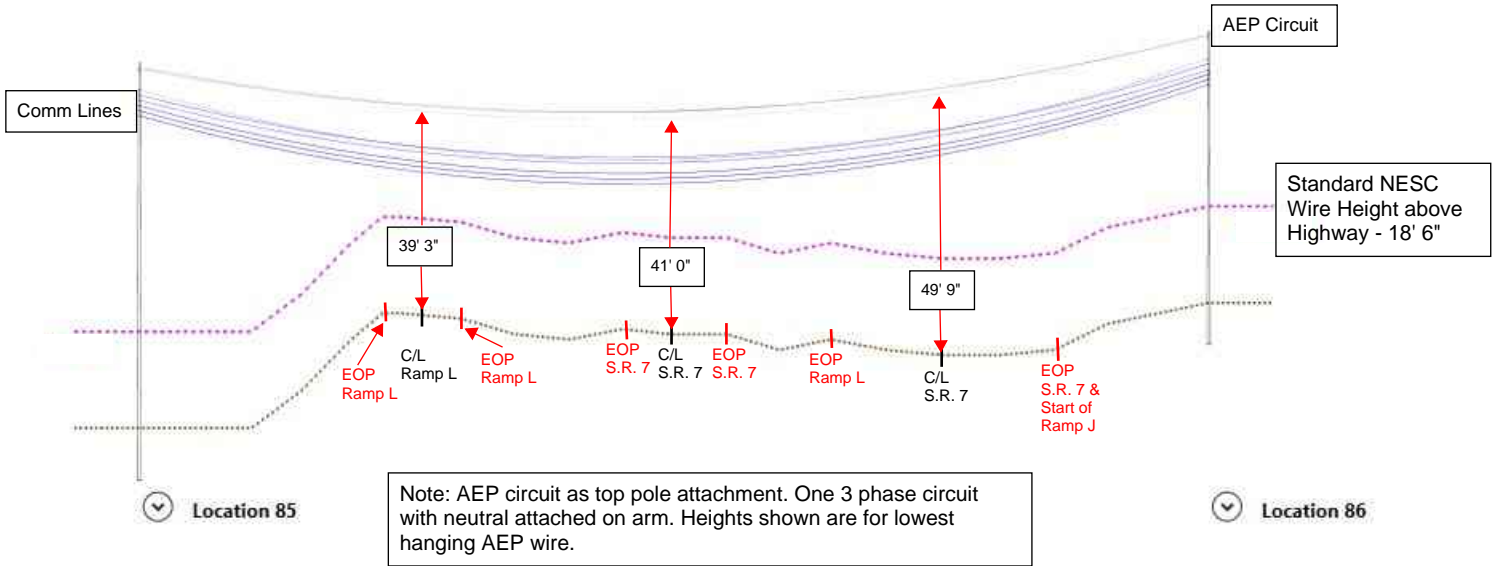
CALCULATED SLP CHECKED ALB

HORIZONTAL SCALE IN FEET



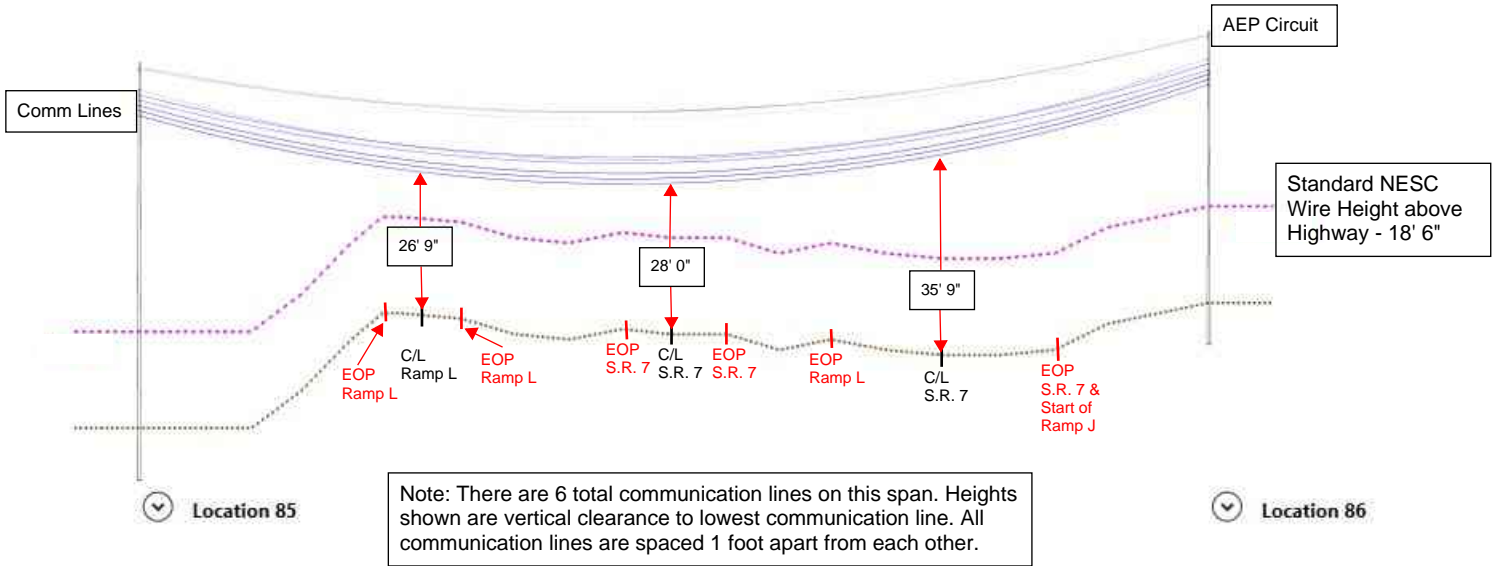
# Vertical Clearance for State Route 7, Ramp L, and Start of Ramp J for AEP Circuit

Not to Scale



# Vertical Clearance for State Route 7, Ramp L, and Start of Ramp J for Communication Lines

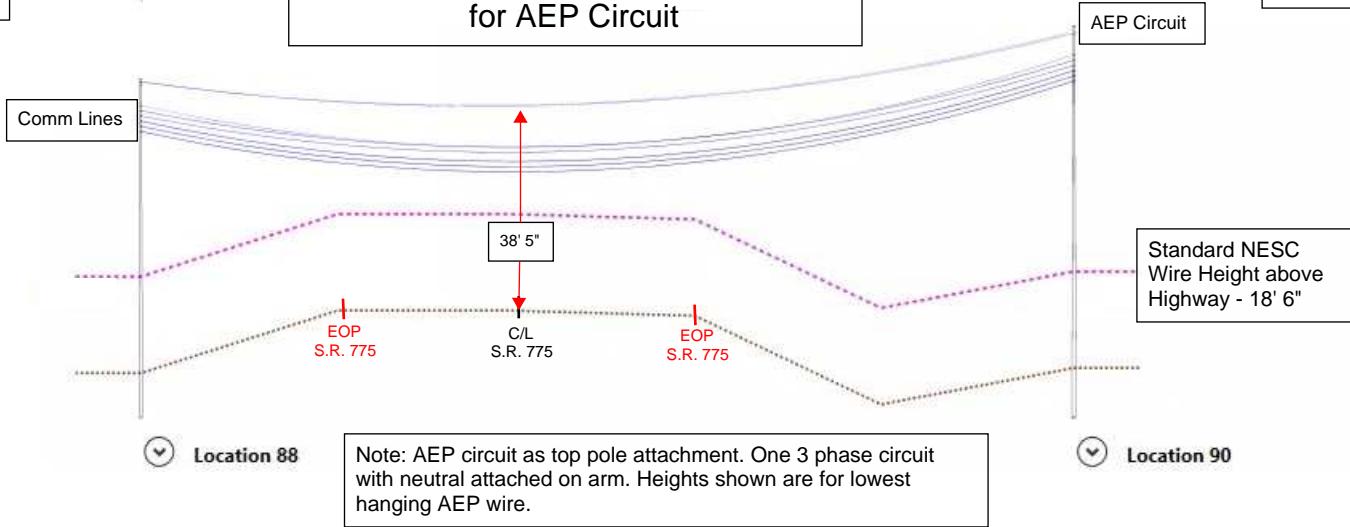
Not to Scale





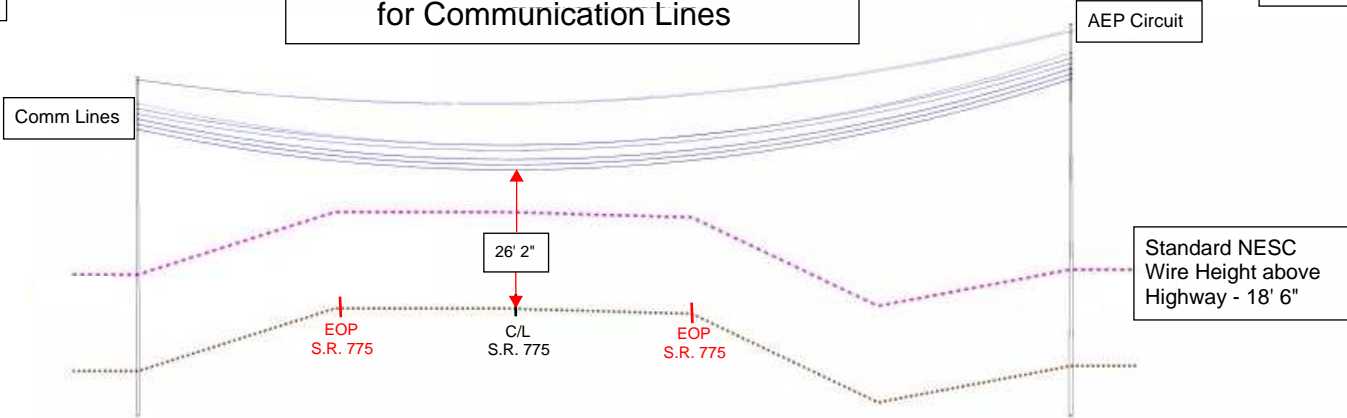
# Vertical Clearance for State Route 775 for AEP Circuit

Not to Scale



# Vertical Clearance for State Route 775 for Communication Lines

Not to Scale



Note: There are 6 total communication lines on this span. Heights shown are vertical clearance to lowest communication line. All communication lines are spaced 1 foot apart from each other.

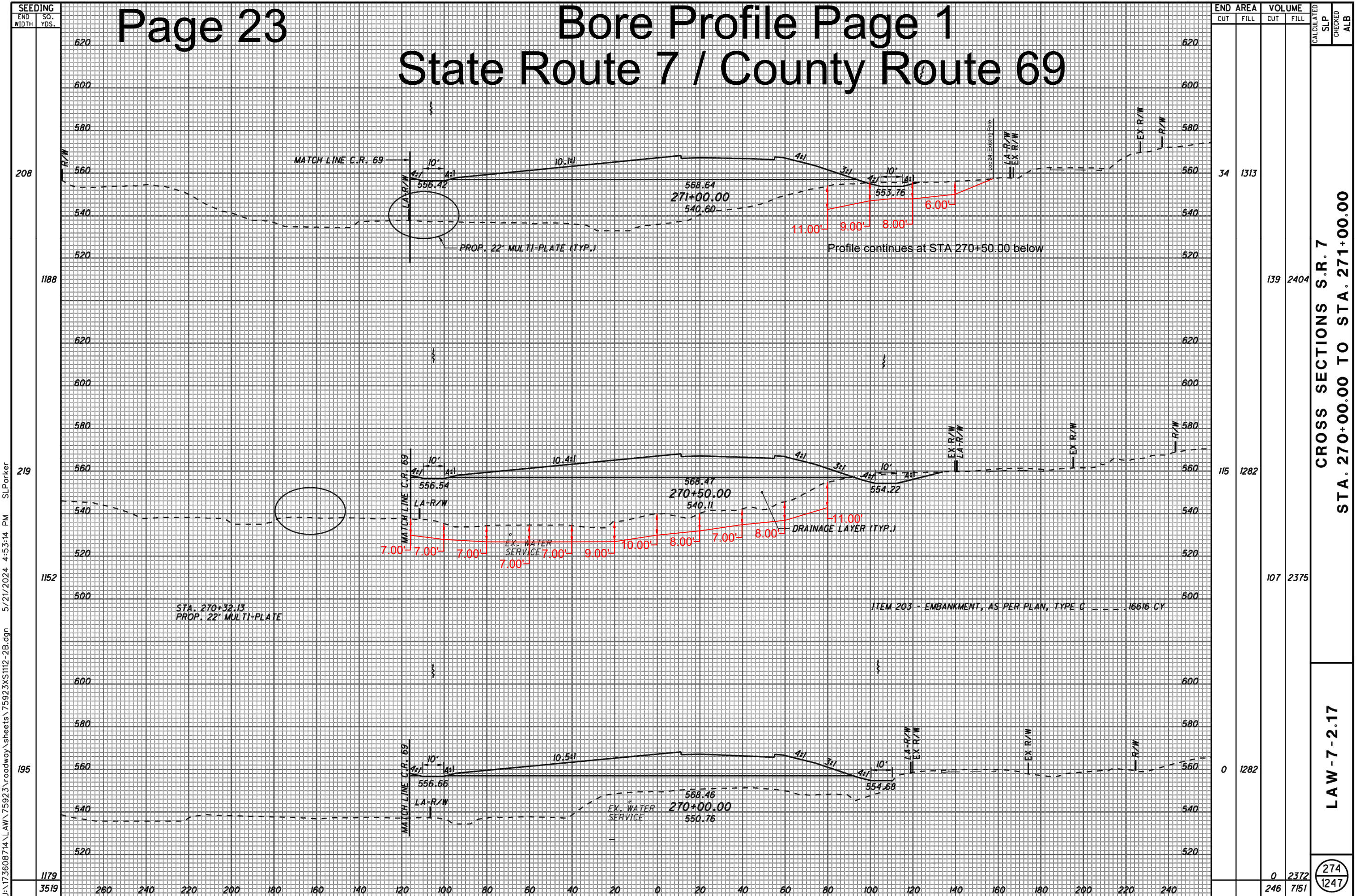
Location 88

Location 90



# Bore Profile Page 1

## State Route 7 / County Route 69



CROSS SECTIONS S.R. 7  
STA. 270+00.00 TO STA. 271+00.00

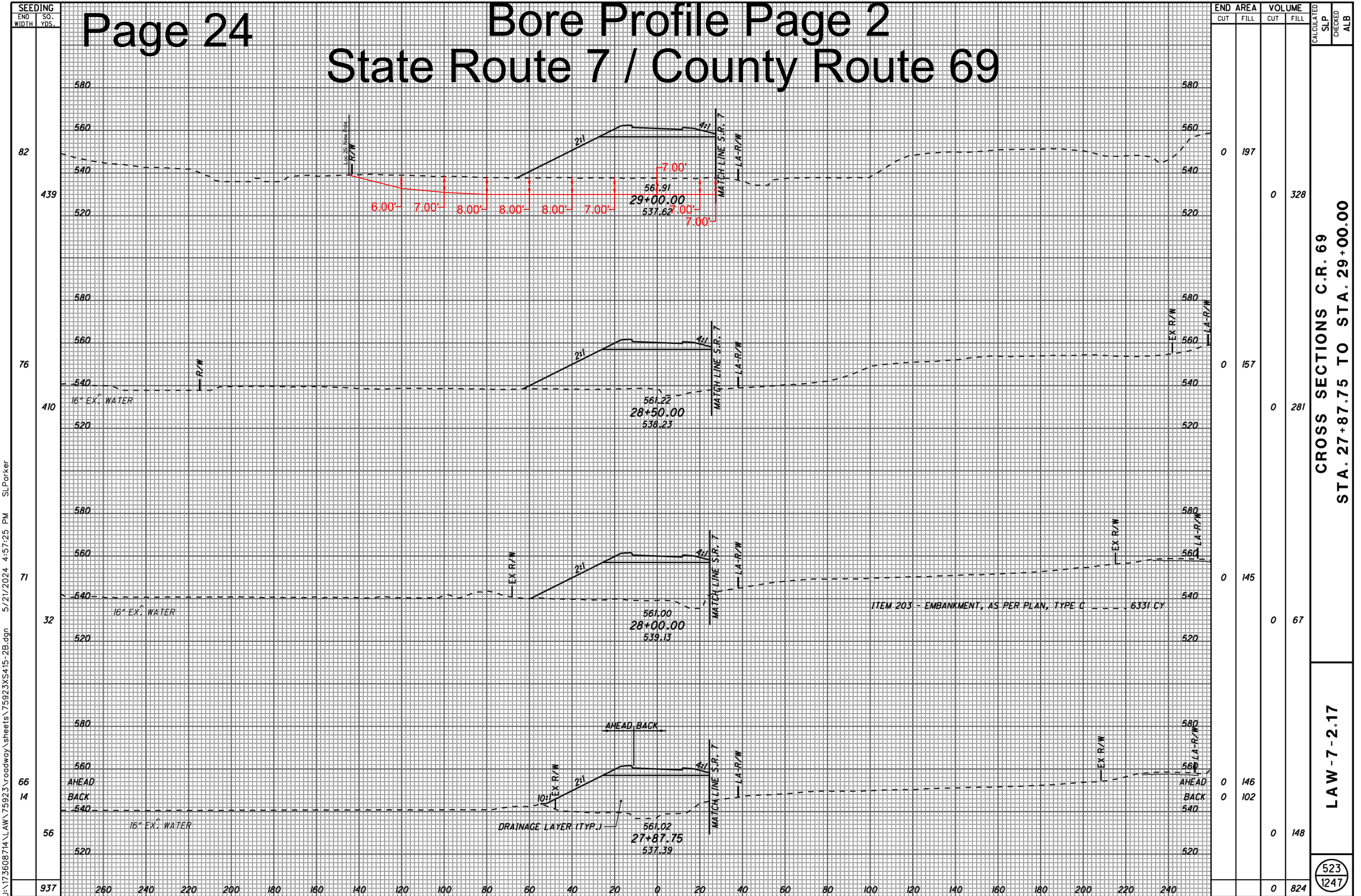
LAW-7-2.17

274  
1247



# Bore Profile Page 2

## State Route 7 / County Route 69



CROSS SECTIONS C.R. 69  
STA. 27+87.75 TO STA. 29+00.00

LAW-7-2.17

523  
1247

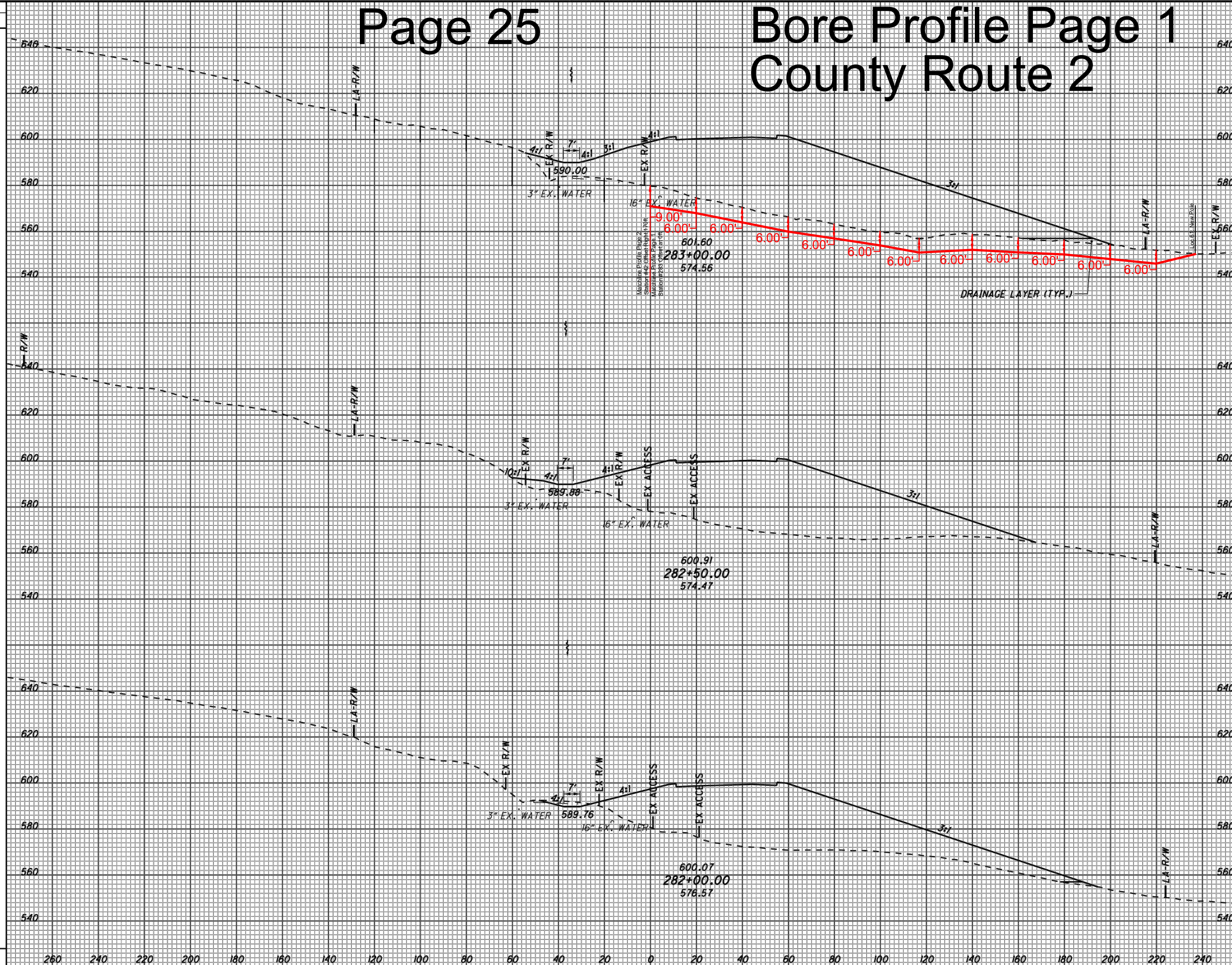
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SEEDING  
 END SO.  
 WIDTH YDS.

Bore Profile Page 1  
 County Route 2

| END AREA |      | VOLUME |      | CALCULATED<br>SLP | CHECKED<br>ALB |
|----------|------|--------|------|-------------------|----------------|
| CUT      | FILL | CUT    | FILL |                   |                |
|          |      |        |      |                   |                |



CROSS SECTIONS S.R. 7  
 STA. 282+00.00 TO STA. 283+00.00

LAW-7-2.17

230  
 633

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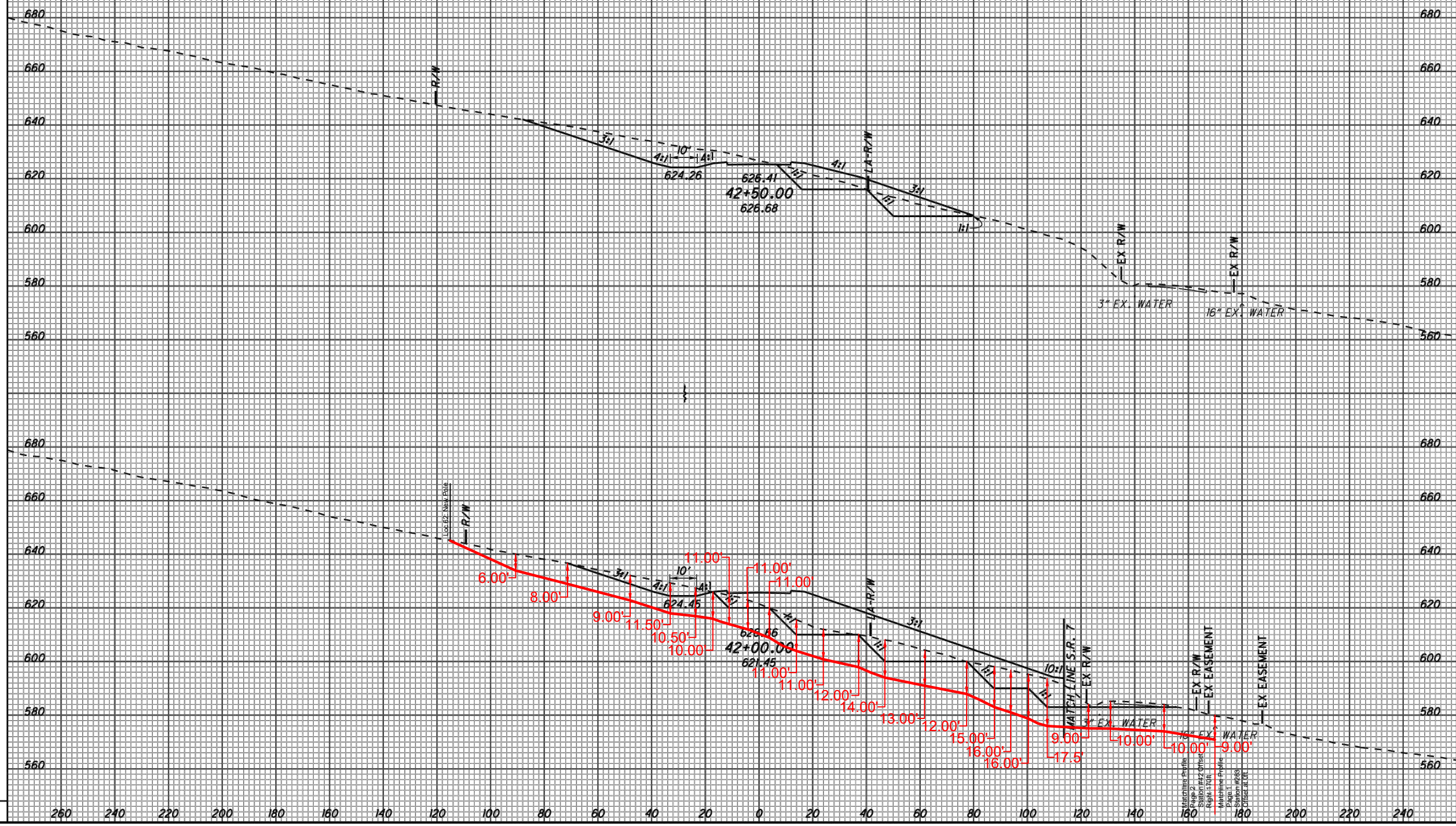
J:\173608714\LAN\75923\roadway\sheets\75923\XS428-2B.dgn 6/16/2022 10:35:31 AM SLParker

| SEEDING   |          |
|-----------|----------|
| END WIDTH | SO. YDS. |
|           |          |

# Page 26

# Bore Profile Page 2 County Route 2

| END AREA |      | VOLUME |      | CALCULATED SLP | CHECKED ALB |
|----------|------|--------|------|----------------|-------------|
| CUT      | FILL | CUT    | FILL |                |             |
|          |      |        |      |                |             |



CROSS SECTIONS C.R. 69  
STA. 42+00.00 TO STA. 42+50.00

LAW-7-2.17

461  
633