

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

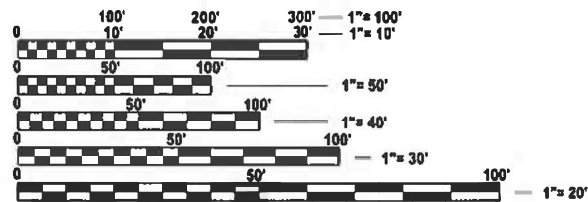
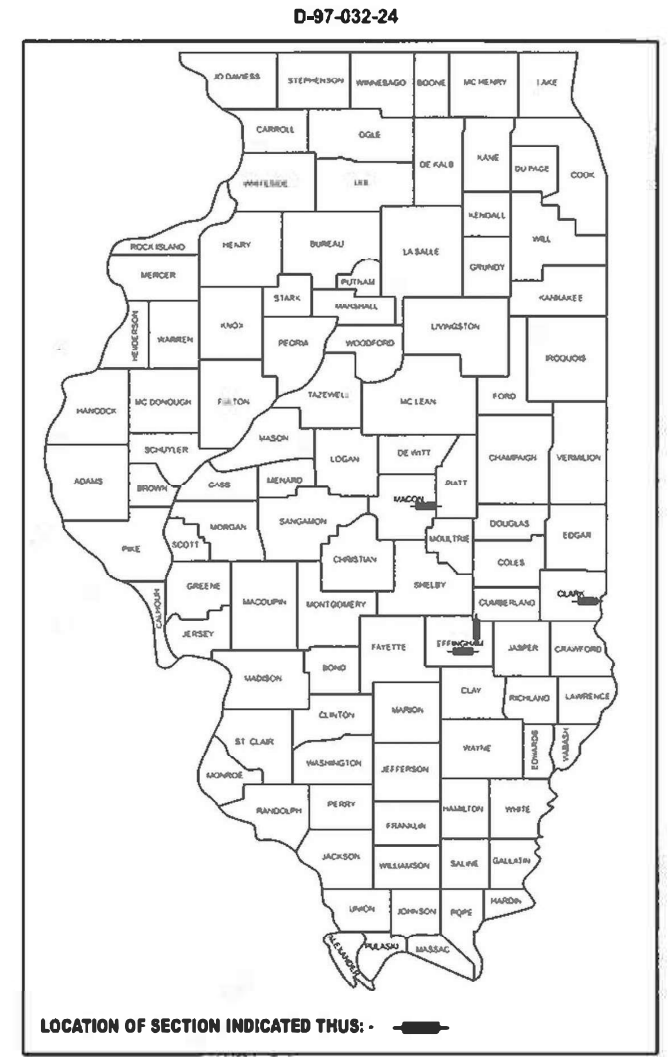
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|-----------|--------------|----------|--------------------|-----------|
| F.A. RTE. | SECTION      | COUNTY   | TOTAL SHEETS       | SHEET NO. |
| VAR       | D7 RA 2024-1 | VARIOUS  | 13                 | 1         |
|           |              | ILLINOIS | CONTRACT NO. 74D00 |           |

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED  
HIGHWAY PLANS**

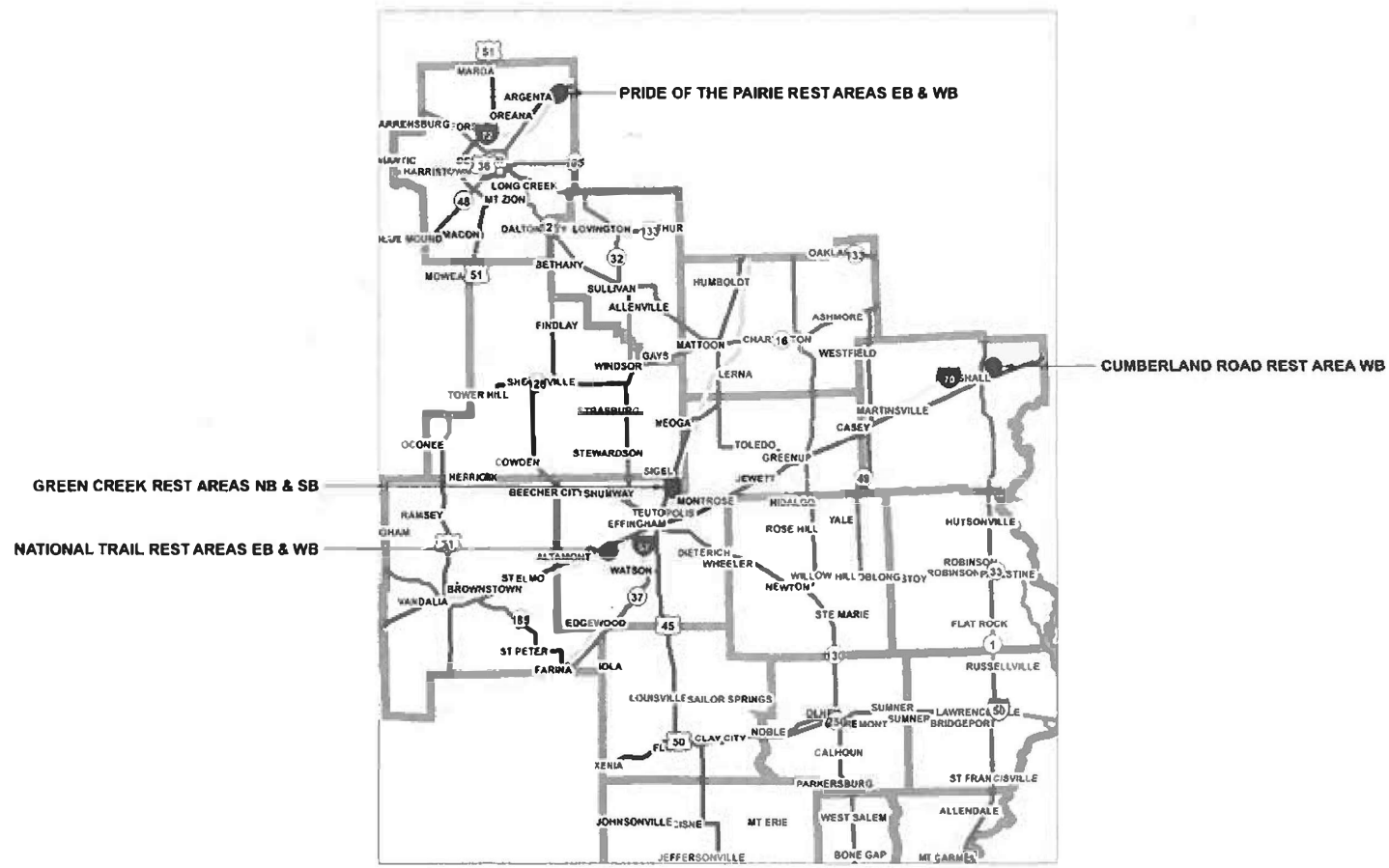
**VARIOUS ROUTES  
SECTION D7 RA 2024-1  
PROJECT NHPP-C9WH(584)  
REST AREA IMPROVEMENT  
VARIOUS COUNTIES**

C-97-063-24



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811



PROJECT ENGINEER DEWAYNE SEACHRIST  
PROJECT MANAGER ROBERT GREUEL

CONTRACT NO. 74D00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 13 2024  
Jeffrey P. Myrland REGIONAL ENGINEER

October 4, 2024  
Scott A. Elk  
ENGINEER OF DESIGN AND ENVIRONMENT

October 4, 2024  
James J. Gu  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**GENERAL NOTES**

ELECTRICAL WORK SHALL CONFORM TO NATIONAL, STATE, AND LOCAL CODES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TREE TRIMMING, BRUSH AND SHRUB REMOVAL AND SHALL DISPOSE OF ALL REMOVED ITEMS OFF THE JOB SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR LIGHT POLE, GALVANIZED STEEL, 45 FT M.H., TENON MOUNT.

EXISTING UTILITY LOCATION INFORMATION IS NOT SHOWN ON THE PLAN SHEETS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES PRIOR TO THE INSTALLATION OF ANY COMPONENTS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND TERRAIN PRIOR TO COMMENCING WORK ON THE PROJECT. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.

THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03.

ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

ANY MAINTENANCE OF EXISTING ELECTRICAL FACILITIES WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

CAMERAS SHALL BE INSTALLED AT A MOUNTING HEIGHT OF 43 FT.

THE CONTRACTOR SHALL INSTALL THE PROPOSED CONDUIT INTO THE BASE OF THE EXISTING LIGHT POLES AT THE LOCATIONS SHOWN ON THE PLAN SHEETS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM FOR THE PROPOSED CONDUIT.

THE CONTRACTOR SHALL FURNISH AND INSTALL NEW CAT 5 ETHERNET CABLE TO THE PROPOSED CCTV CAMERAS. THE COST OF THIS WORK SHALL BE PAID FOR SEPARATELY AS "CAT 5 ETHERNET CABLE".

THE CONTRACTOR SHALL INSTALL THE PROPOSED CCTV CAMERA BRACKET ON THE CAMERA POLES AT THE LOCATIONS SHOWN ON THE PLAN SHEETS. THE CAMERA BRACKET SHALL BE SECURED TO THE STAIN POLE WITH STAINLESS STEEL BANDING. THE CONTRACTOR SHALL INSTALL SET SCREWS AND ADDITIONAL HARDWARE AS NEEDED TO ENSURE THAT THE CAMERA AND CAMERA BRACKET DOES NOT LOOSEN. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CCTV CAMERA.

THE CONTRACTOR SHALL NOTIFY ROBERT GREUEL, IDOT DISTRICT 7 TRAFFIC CONTRACT TECHNICIAN AT (217) 342-8275 A MINIMUM OF 48 HOURS PRIOR TO CAMERA AIMING. THE CONTRACTOR SHALL ADJUST AND AIM THE PROPOSED CAMERAS WHILE THE IDOT REPRESENTATIVE IS ON-SITE. THE CONTRACTOR SHALL HAVE ALL OF THE CAMERAS INSTALLED AND FUNCTIONAL AT A SITE BEFORE NOTIFYING IDOT TO ARRANGE FINAL AIMING.

THE DEPARTMENT WILL PROGRAM ALL CAMERAS AFTER INSTALLATION.

PROPOSED CAMERA POLES SHALL BE LOCATED A MINIMUM OF 5 FT FROM EDGE OF CURB OR PAVEMENT. CAMERA POLES LOCATED IN ISLANDS AND MEDIANS SHALL BE INSTALLED IN THE CENTER TO PROVIDE EQUAL DISTANCE ON ALL SIDES. FINAL POLE LOCATIONS SHALL BE SUBJECT TO APPROVAL BY THE RESIDENT ENGINEER.

**GENERAL NOTES**

PROPOSED ITS EQUIPMENT CABINETS SHALL BE POWERED FROM EXISTING CABINETS USING PROPOSED 1P 20A CIRCUIT BREAKERS AND #10 1/C X 3 CONDUCTORS.

PROPOSED ETHERNET CONVERTORS ARE POE POWERED ETHERNET EXTENDERS AND SHALL BE INSTALLED IN LIGHTPOLE HANDHOLES AND JUNCTION BOXES AS SHOWN ON THE PLAN SHEETS. THE TERMS ETHERNET CONVERTER AND ETHERNET EXTENDER ARE USED INTERCHANGEABLY AND REFER TO THE SAME DEVICE.

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 GENERAL NOTES, HIGHWAY STANDARDS AND INDEX OF SHEETS
- 3 SUMMARY OF QUANTITIES SHEET
- 4-10 PLAN SHEETS
- 11-13 DETAIL SHEETS

**HIGHWAY STANDARDS**

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND FOOT
- 420701-03 PAVEMENT WELDED WIRE REINFORCEMENT
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
- 701006-05 OFF-RD OPERATIONS. 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
- 701901-09 TRAFFIC CONTROL DEVICES
- 830021-04 LIGHT POLE STEEL TENON TOP
- 836001-04 LIGHT POLE FOUNDATION

REV - MS

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|                           |  |            |           |   |   |       |    |           |              |         |              |                             |
|---------------------------|--|------------|-----------|---|---|-------|----|-----------|--------------|---------|--------------|-----------------------------|
| USER NAME = Robert.Greuel |  | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>GENERAL NOTES, INDEX OF SHEETS<br/>&amp; HIGHWAY STANDARDS</b> |       |    | F.A. RTE. | SECTION      | COUNTY  | TOTAL SHEETS | SHEET NO.                   |
|                           |  | DRAWN -    | REVISED - |   |   |       |    | VAR       | D7 RA 2024-1 | VARIOUS | 13           | 2                           |
|                           |  | CHECKED -  | REVISED - |   | CONTRACT NO. 74D00  |       |    |           |              |         |              |                             |
| PLOT DATE = 8/14/2024     |  | DATE -     | REVISED - |   | SCALE:  | SHEET | OF | SHEETS    | STA.         | TO      | STA.         | ILLINOIS   FED. AID PROJECT |

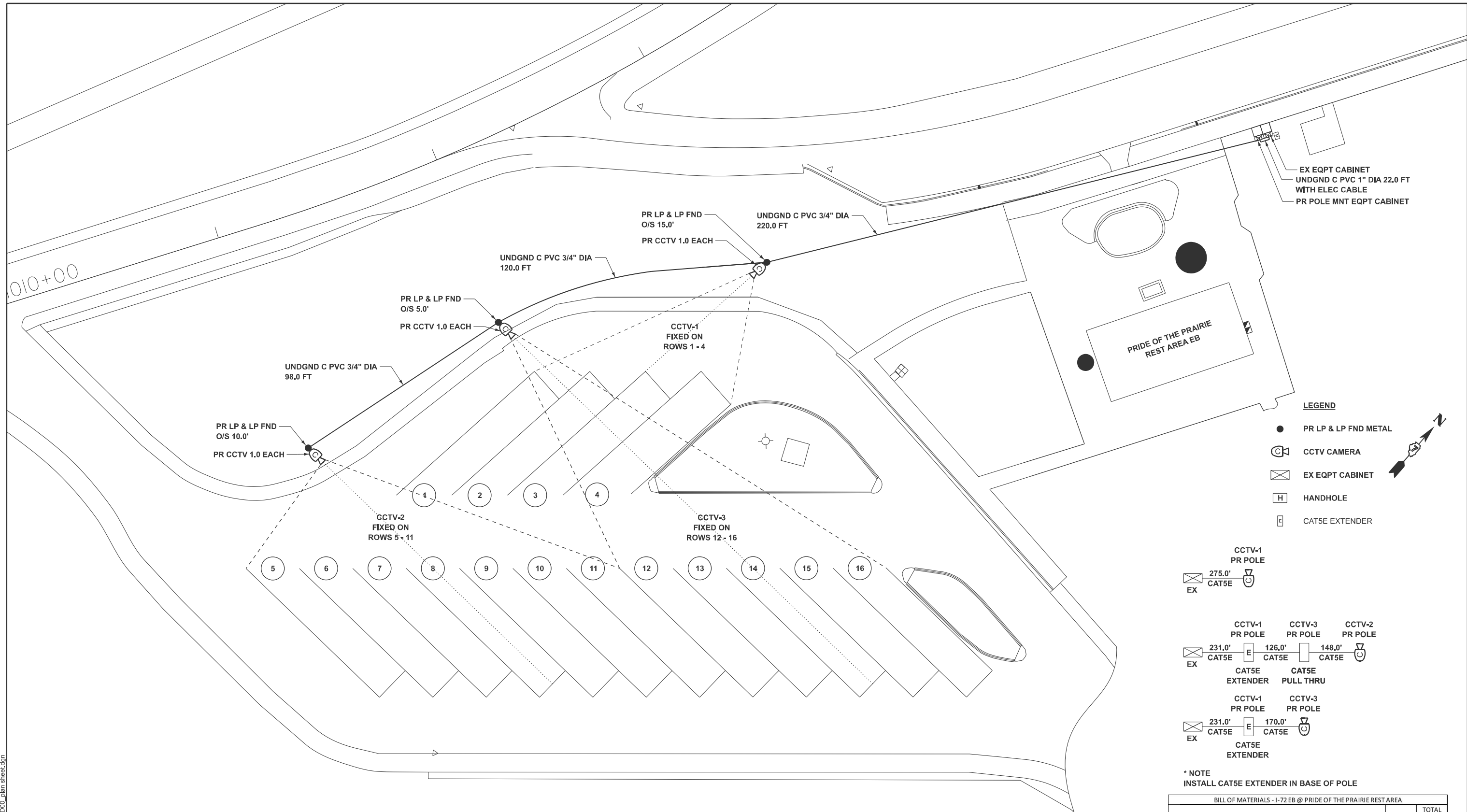
90% FED 10% STATE

| CODE NO. | ITEM  | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE |                  |              |
|----------|---|-------|----------------|-------------------|------------------|--------------|
|          |   |       |                | MACON SAFETY      | EFFINGHAM SAFETY | CLARK SAFETY |
|          |   |       |                | 0021 RURAL        | 0021 RURAL       | 0021 RURAL   |
| 67100100 | MOBILIZATION  | L SUM | 1              | 0.25              | 0.5              | 0.25         |
| 81028310 | UNDERGROUND CONDUIT, PVC, 3/4" DIA.                           | FOOT  | 3162           | 775               | 1752             | 635          |
| 81028320 | UNDERGROUND CONDUIT, PVC, 1" DIA.                             | FOOT  | 440            | 22                |                  | 418          |
| 81702450 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10   | FOOT  | 480            | 35                |                  | 445          |
| 83060830 | LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT        | EACH  | 20             | 5                 | 10               | 5            |
| 83600345 | LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8 5/8" X 7"     | EACH  | 20             | 5                 | 10               | 5            |
| 87900200 | DRILL EXISTING HANDHOLE                                       | EACH  | 1              |                   |                  | 1            |
| X0323920 | POLE MOUNTED EQUIPMENT CABINET, TYPE B                        | EACH  | 2              | 1                 |                  | 1            |
| X0324597 | CLOSED CIRCUIT TELEVISION CABINET                             | EACH  | 1              | 1                 |                  |              |
| X0324603 | CIRCUIT BREAKER, 1-POLE, 20 AMP, 120V IN EXISTING TSC CABINET | EACH  | 3              | 1                 | 1                | 1            |
| X0326812 | CAT 5 ETHERNET CABLE  | FOOT  | 6330           | 1671              | 3149             | 1510         |
| X0327216 | CLOSED CIRCUIT TELEVISION CAMERA                              | EACH  | 27             | 6                 | 15               | 6            |
| X1400440 | ETHERNET CONVERTER  | EACH  | 7              | 2                 | 3                | 2            |
| X2501000 | SEEDING, CLASS 2 (SPECIAL)                                    | ACRE  | 0.5            | 0.1               | 0.3              | 0.1          |

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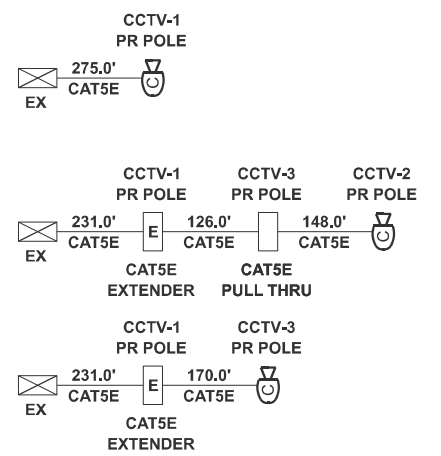
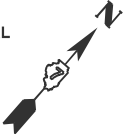
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|---------------------------|------------|-----------|---|------------------------------|-------|----|--------|--------------------|--------------|---------|-----------------------------|-----------|
| USER NAME = Robert.Greuel | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUMMARY OF QUANTITIES</b> |       |    |        | F.A. RTE.          | SECTION      | COUNTY  | TOTAL SHEETS                | SHEET NO. |
|                           | DRAWN -    | REVISED - |   |                              |       |    |        | VAR                | D7 RA 2024-1 | VARIOUS | 13                          | 3         |
|                           | CHECKED -  | REVISED - |   |                              |       |    |        | CONTRACT NO. 74D00 |              |         |                             |           |
| PLOT DATE = 8/14/2024     | DATE -     | REVISED - |   | SCALE:                       | SHEET | OF | SHEETS | STA.               | TO           | STA.    | ILLINOIS   FED. AID PROJECT |           |



**LEGEND**

- PR LP & LP FND METAL
- Ⓢ CCTV CAMERA
- ⊠ EX EQPT CABINET
- Ⓜ HANDHOLE
- Ⓛ CAT5E EXTENDER



**\* NOTE**  
INSTALL CAT5E EXTENDER IN BASE OF POLE

| BILL OF MATERIALS - I-72 EB @ PRIDE OF THE PRAIRIE REST AREA    |      |            |
|---|------|------------|
| ITEM DESCRIPTION  | UNIT | TOTAL QTY. |
| UNDERGROUND CONDUIT, PVC, 3/4" DIA.                             | FOOT | 438.0      |
| UNDERGROUND CONDUIT, PVC, 1" DIA.                               | FOOT | 22.0       |
| CAT 5 ETHERNET CABLE  | FOOT | 1181.0     |
| LIGHT POLE, GALV STEEL, 45 FT. M.H. TENON MOUNT                 | EACH | 3.0        |
| LIGHT POLE FOUNDATION, METAL, 15 IN. BOLT CIRCLE, 85/8" X 8 FT. | EACH | 3.0        |
| CLOSED CIRCUIT TELEVISION CAMERA                                | EACH | 3.0        |
| ETHERNET CONVERTER  | EACH | 2.0        |
| POLE MOUNTED EQUIPMENT CABINET, TYPE B                          | EACH | 1.0        |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10     | FOOT | 28.0       |
| CIRCUIT BREAKER, 1-POLE, 20 AMP, 120V IN EXISTING TSC CABINET   | EACH | 1.0        |

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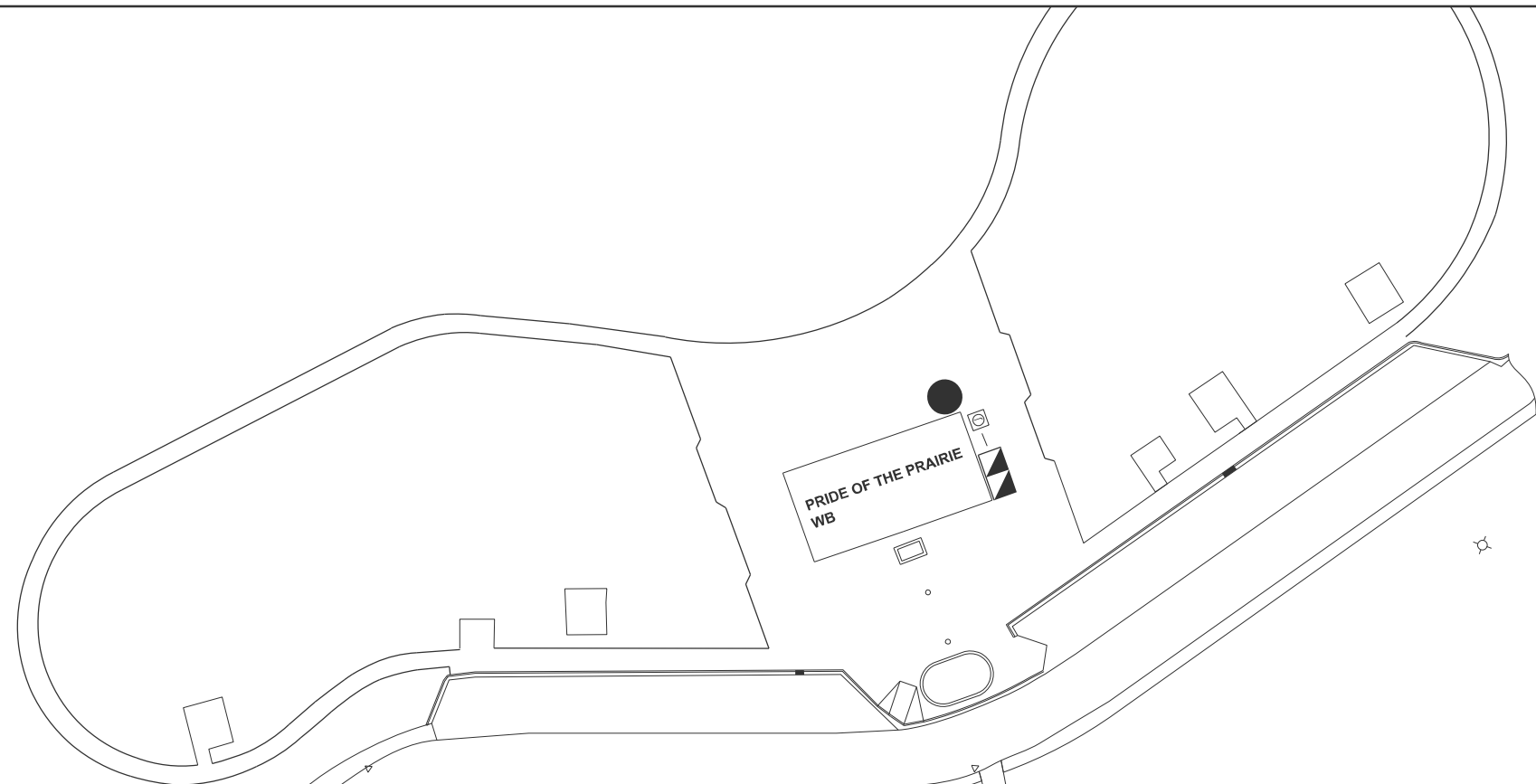
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|--------------------------|------------|-----------|
| USER NAME = Robert.Gruel | DESIGNED - | REVISED - |
|                          | DRAWN -    | REVISED - |
|                          | CHECKED -  | REVISED - |
| PLOT DATE = 8/14/2024    | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TPIMS PLAN SHEET  
PRIDE OF THE PAIRIE EB**

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |              |         |                    |           |
|---------------------------|--------------|---------|--------------------|-----------|
| F.A. RTE.                 | SECTION      | COUNTY  | TOTAL SHEETS       | SHEET NO. |
| VAR                       | D7 RA 2024-1 | VARIOUS | 13                 | 4         |
|                           |              |         | CONTRACT NO. 74D00 |           |
| ILLINOIS FED. AID PROJECT |              |         |                    |           |



**CCTV-1 PR POLE**  
 246.0' EX CAT5E

**CCTV-2 PR POLE**  
 45.0' EX CAT5E

**CCTV-3 EX POLE**  
 199.0' EX CAT5E

**LEGEND**

- PR LP & LP FND
- Ⓟ EX LP
- Ⓢ EX LP
- Ⓜ EQPT CABINET

| BILL OF MATERIALS - I-72 WB @ PRIDE OF THE PRAIRIE REST AREA     |      |            |
|--|------|------------|
| ITEM DESCRIPTION   | UNIT | TOTAL QTY. |
| UNDERGROUND CONDUIT, PVC, 3/4" DIA.                              | FOOT | 337.0      |
| CAT 5 ETHERNET CABLE   | FOOT | 490.0      |
| LIGHT POLE, GALV STEEL, 45 FT. M.H. TENON MOUNT                  | EACH | 2.0        |
| LIGHT POLE FOUNDATION, METAL, 15 IN. BOLT CIRCLE, 8 5/8" X 8 FT. | EACH | 2.0        |
| CLOSED CIRCUIT TELEVISION CAMERA                                 | EACH | 3.0        |
| CLOSED CIRCUIT TELEVISION CABINET                                | EACH | 1.0        |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10      | FOOT | 7.0        |

PR LP & LP FND O/S 15'  
 CCTV 1.0 EACH

CCTV-1  
 FIXED ON  
 STALLS 1-7

UNDGND C PVC 3/4" DIA  
 192.0 FT

CCTV-3  
 FIXED ON  
 STALLS 13-16

CCTV-2  
 FIXED ON  
 STALLS 8-12

CCTV 1.0 EACH  
 PR LP & LP FND  
 O/S 11.0'

UNDGND C PVC 3/4" DIA  
 145.0 FT

CCTV 1.0 EACH  
 EX CCTV, LP & EQPT CABINET  
 PROPOSED CCTV CABINET  
 1.0 EACH

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|                           |            |           |
|---------------------------|------------|-----------|
| USER NAME = jessica.hille | DESIGNED - | REVISED - |
|                           | DRAWN -    | REVISED - |
|                           | CHECKED -  | REVISED - |
| PLOT DATE = 8/15/2024     | DATE -     | REVISED - |

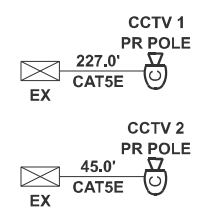
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TPIMS PLAN SHEET  
 PRIDE OF THE PAIRIE WB**

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |              |         |                    |           |
|---------------------------|--------------|---------|--------------------|-----------|
| F.A. RTE.                 | SECTION      | COUNTY  | TOTAL SHEETS       | SHEET NO. |
| VAR                       | D7 RA 2024-1 | VARIOUS | 13                 | 5         |
|                           |              |         | CONTRACT NO. 74D00 |           |
| ILLINOIS FED. AID PROJECT |              |         |                    |           |

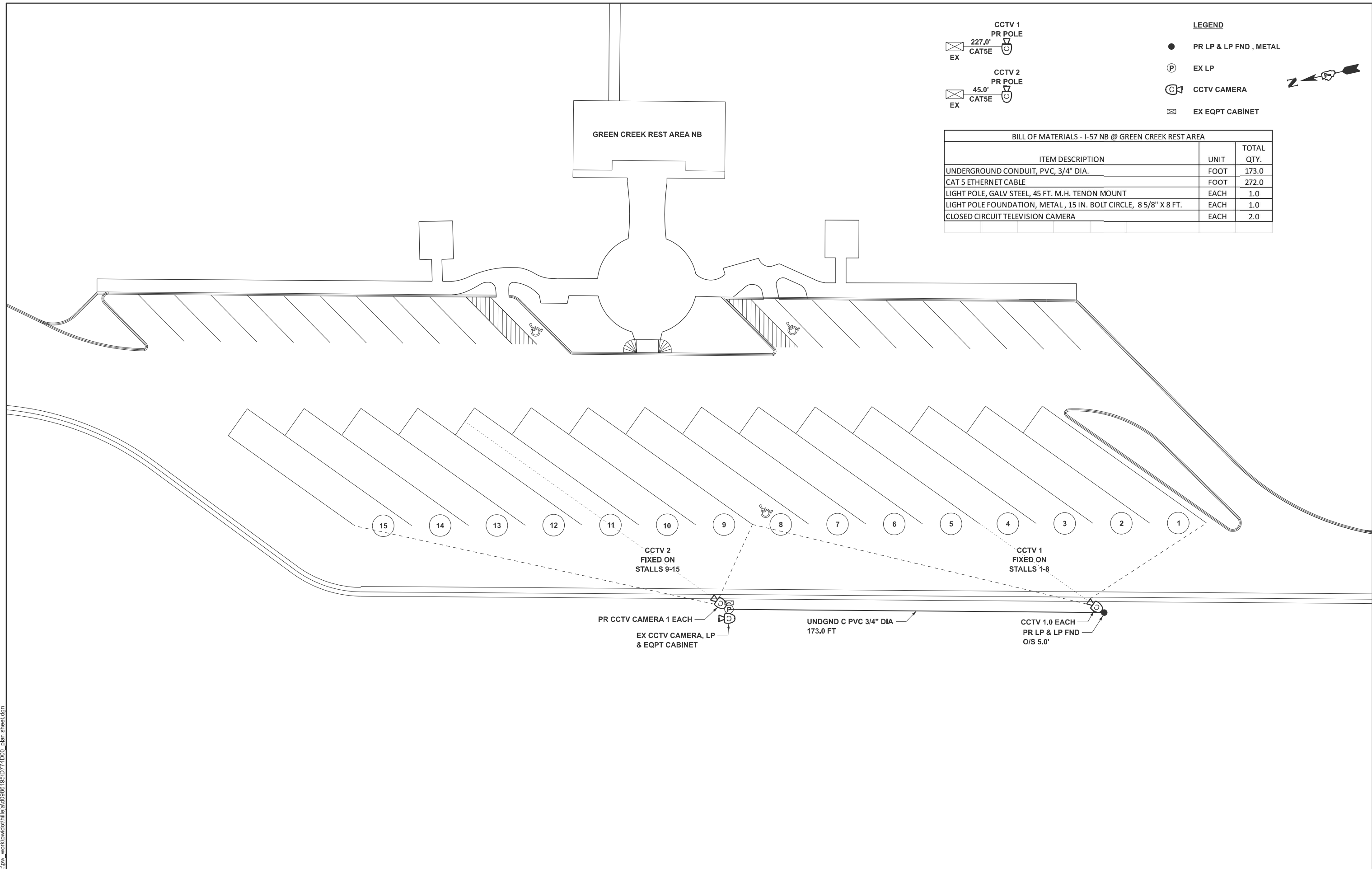
GREEN CREEK REST AREA NB



- LEGEND**
- PR LP & LP FND , METAL
  - Ⓟ EX LP
  - 📷 CCTV CAMERA
  - ☒ EX EQPT CABINET



| BILL OF MATERIALS - I-57 NB @ GREEN CREEK REST AREA              |      |            |
|--|------|------------|
| ITEM DESCRIPTION   | UNIT | TOTAL QTY. |
| UNDERGROUND CONDUIT, PVC, 3/4" DIA.                              | FOOT | 173.0      |
| CAT 5 ETHERNET CABLE   | FOOT | 272.0      |
| LIGHT POLE, GALV STEEL, 45 FT. M.H. TENON MOUNT                  | EACH | 1.0        |
| LIGHT POLE FOUNDATION, METAL, 15 IN. BOLT CIRCLE, 8 5/8" X 8 FT. | EACH | 1.0        |
| CLOSED CIRCUIT TELEVISION CAMERA                                 | EACH | 2.0        |



CCTV 2  
FIXED ON  
STALLS 9-15

CCTV 1  
FIXED ON  
STALLS 1-8

PR CCTV CAMERA 1 EACH  
EX CCTV CAMERA, LP  
& EQPT CABINET

UNDGND C PVC 3/4" DIA  
173.0 FT

CCTV 1,0 EACH  
PR LP & LP FND  
O/S 5.0'

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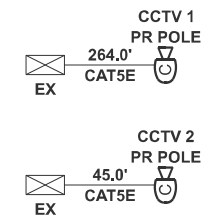
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|---------------------------|------------|-----------|
| USER NAME = jessica.hille | DESIGNED - | REVISED - |
|                           | DRAWN -    | REVISED - |
|                           | CHECKED -  | REVISED - |
| PLOT DATE = 8/15/2024     | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TPIMS PLAN SHEET  
GREEN CREEK NB**

SCALE: SHEET OF SHEETS STA. TO STA.

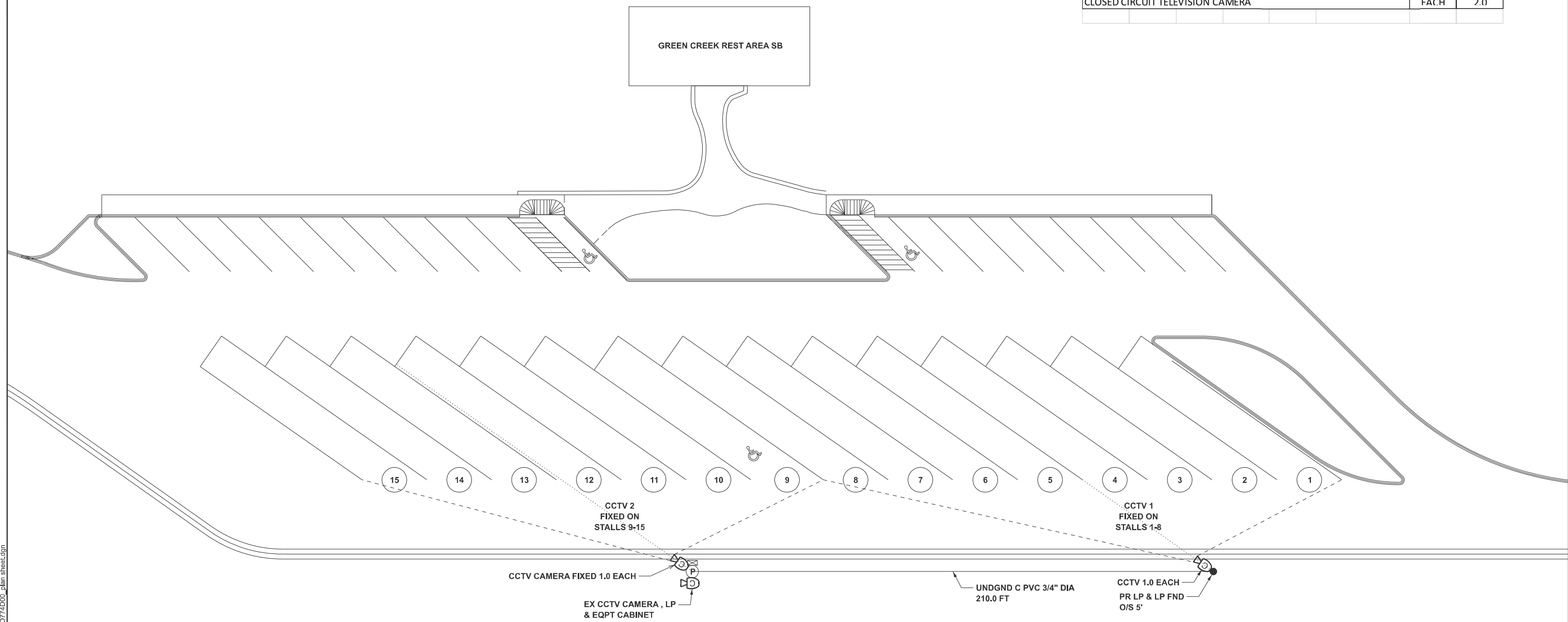
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| F.A. RTE.                 | SECTION      | COUNTY  | TOTAL SHEETS       | SHEET NO. |
| VAR                       | D7 RA 2024-1 | VARIOUS | 13                 | 6         |
|                           |              |         | CONTRACT NO. 74D00 |           |
| ILLINOIS FED. AID PROJECT |              |         |                    |           |



- LEGEND**
- PR LP & LP FND METAL
  - Ⓟ EX LP
  - 📷 CCTV CAMERA
  - 📦 EQPT CABINET



| BILL OF MATERIALS - I-57 SB @ GREEN CREEK REST AREA              |      |            |
|--|------|------------|
| ITEM DESCRIPTION   | UNIT | TOTAL QTY. |
| UNDERGROUND CONDUIT, PVC, 3/4" DIA.                              | FOOT | 210.0      |
| CAT 5 ETHERNET CABLE   | FOOT | 309.0      |
| LIGHT POLE, GALV STEEL, 45 FT. M.H. TENON MOUNT                  | EACH | 1.0        |
| LIGHT POLE FOUNDATION, METAL, 15 IN. BOLT CIRCLE, 8 5/8" X 8 FT. | EACH | 1.0        |
| CLOSED CIRCUIT TELEVISION CAMERA                                 | FACH | 2.0        |



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|                           |            |           |
|---------------------------|------------|-----------|
| USER NAME = jessica.hille | DESIGNED - | REVISED - |
|                           | DRAWN -    | REVISED - |
|                           | CHECKED -  | REVISED - |
| PLOT DATE = 8/15/2024     | DATE -     | REVISED - |

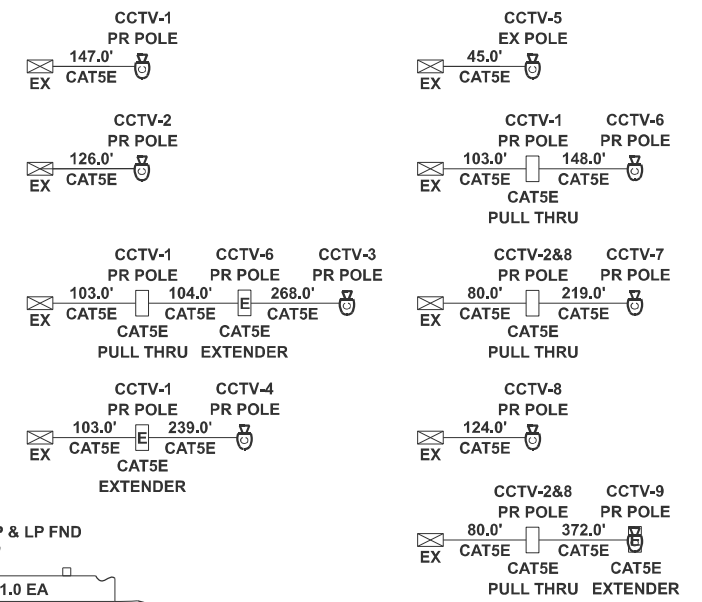
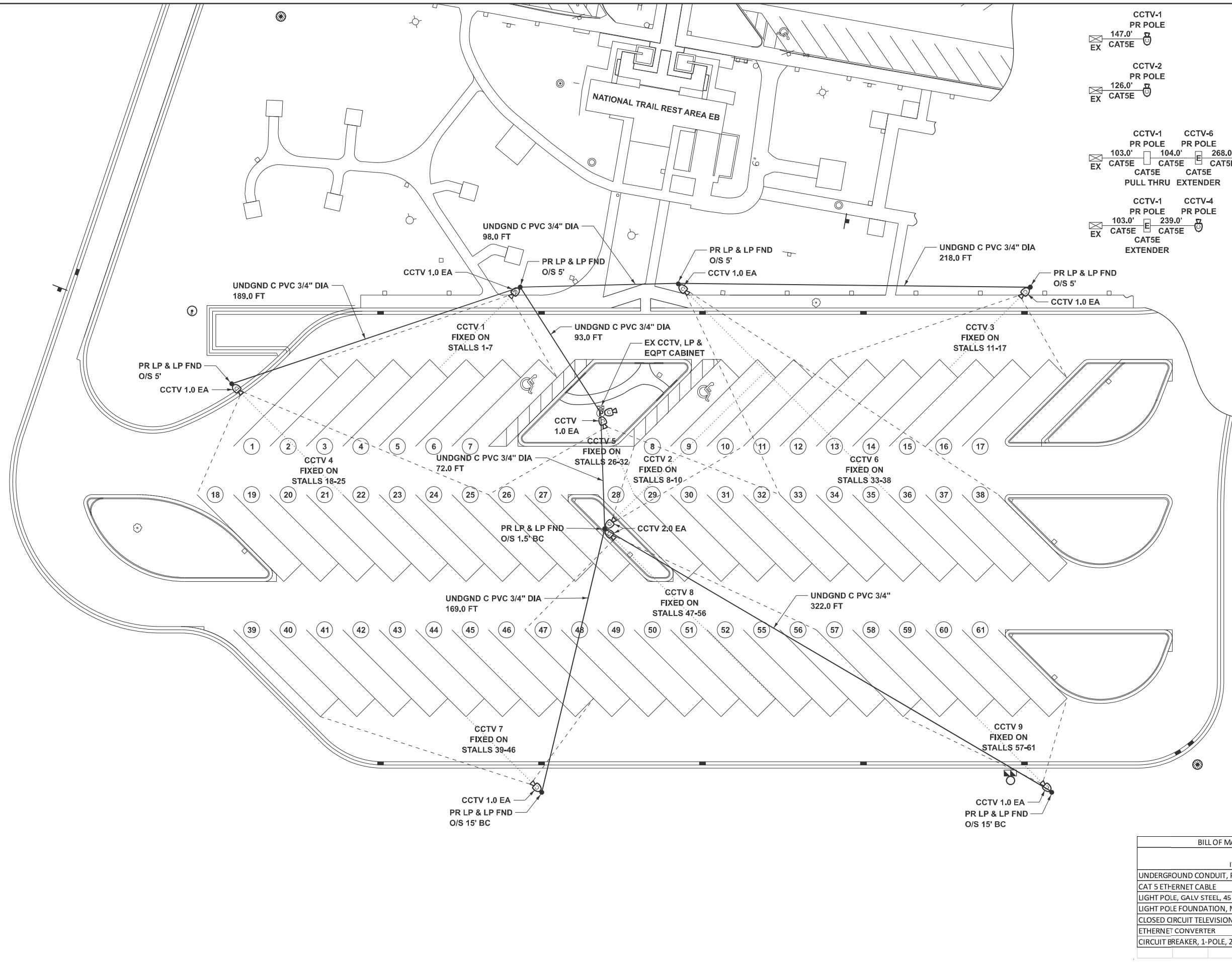
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TPIMS PLAN SHEET  
GREEN CREEK SB**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

|                           |              |         |                    |           |
|---------------------------|--------------|---------|--------------------|-----------|
| F.A. RTE.                 | SECTION      | COUNTY  | TOTAL SHEETS       | SHEET NO. |
| VAR                       | D7 RA 2024-1 | VARIOUS | 13                 | 7         |
|                           |              |         | CONTRACT NO. 74D00 |           |
| ILLINOIS FED. AID PROJECT |              |         |                    |           |

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\* NOTE  
 INSTALL CAT5E EXTENDER IN BASE OF POLE

- LEGEND**
- PR LP & LP FND METAL
  - Ⓟ EX LP
  - 📷 CCTV CAMERA
  - 📦 EQPT CABINET
  - 📶 CAT5E EXTENDER



| BILL OF MATERIALS - I-70 EB @ NATIONAL TRAIL REST AREA           |      |           |
|--|------|-----------|
| ITEM DESCRIPTION   | UNIT | TOTAL QTY |
| UNDERGROUND CONDUIT, PVC, 3/4" DIA.                              | FOOT | 1161.0    |
| CAT 5 ETHERNET CABLE   | FOOT | 2261.0    |
| LIGHT POLE, GALV STEEL, 45 FT. M.H. TENON MOUNT                  | EACH | 7.0       |
| LIGHT POLE FOUNDATION, METAL, 15 IN. BOLT CIRCLE, 8 5/8" X 8 FT. | EACH | 7.0       |
| CLOSED CIRCUIT TELEVISION CAMERA                                 | EACH | 9.0       |
| ETHERNET CONVERTER   | EACH | 3.0       |
| CIRCUIT BREAKER, 1-POLE, 20 AMP, 120V IN EXISTING TSC CABINET    | EACH | 1.0       |

|                           |            |           |
|---------------------------|------------|-----------|
| USER NAME = jessica.hille | DESIGNED - | REVISED - |
|                           | DRAWN -    | REVISED - |
|                           | CHECKED -  | REVISED - |
| PLOT DATE = 8/15/2024     | DATE -     | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TPIMS PLAN SHEET  
 NATIONAL TRAIL EB**

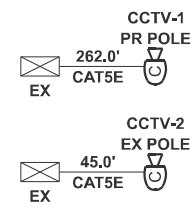
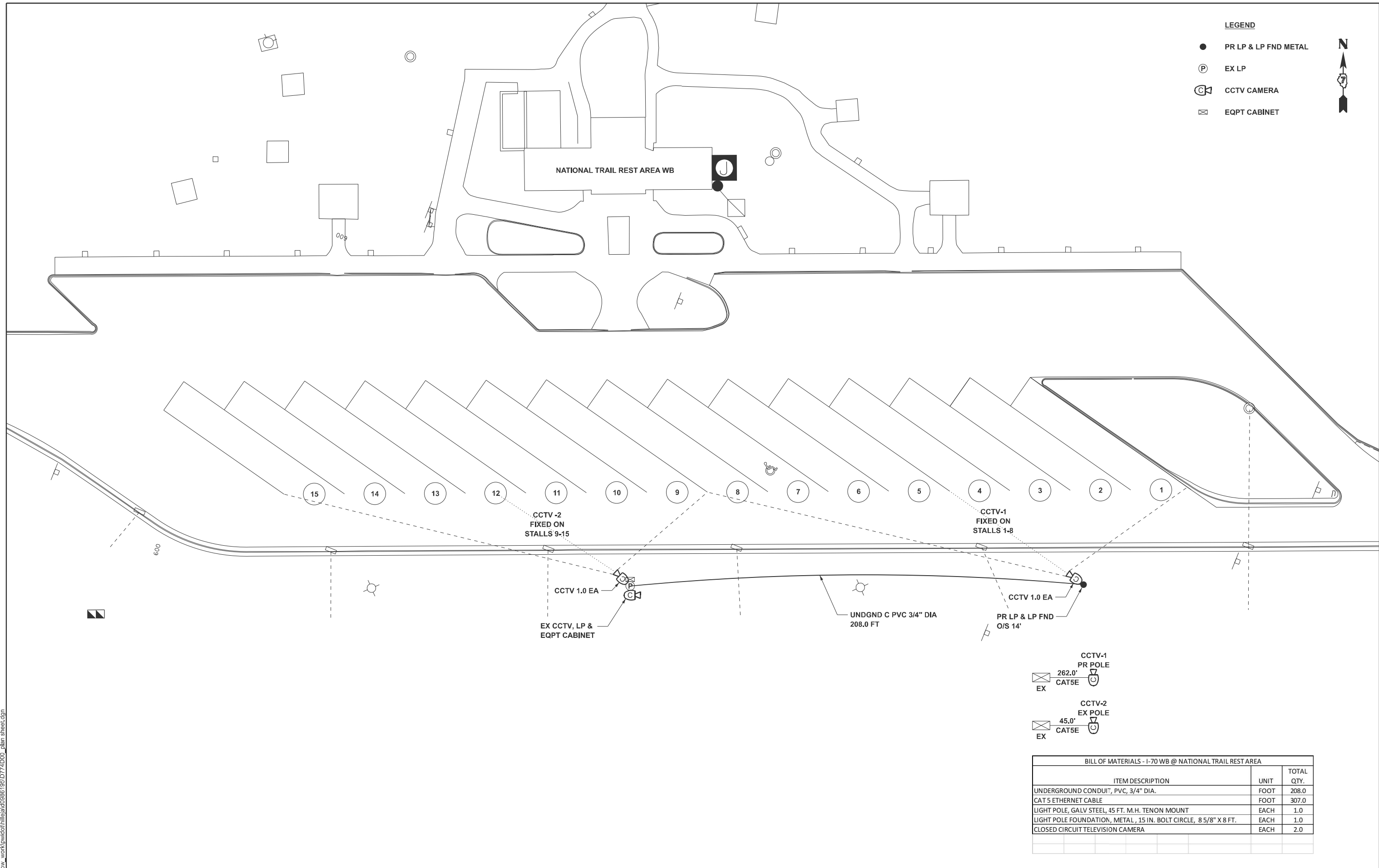
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |              |         |              |           |
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| F.A. RTE.                 | SECTION      | COUNTY  | TOTAL SHEETS | SHEET NO. |
| VAR                       | D7 RA 2024-1 | VARIOUS | 13           | 8         |
| CONTRACT NO. 74D00        |              |         |              |           |
| ILLINOIS FED. AID PROJECT |              |         |              |           |



LEGEND

- PR LP & LP FND METAL
- Ⓟ EX LP
- 📷 CCTV CAMERA
- ☒ EQPT CABINET



| BILL OF MATERIALS - I-70 WB @ NATIONAL TRAIL REST AREA           |      |            |
|--|------|------------|
| ITEM DESCRIPTION   | UNIT | TOTAL QTY. |
| UNDERGROUND CONDUIT, PVC, 3/4" DIA.                              | FOOT | 208.0      |
| CAT 5 ETHERNET CABLE   | FOOT | 307.0      |
| LIGHT POLE, GALV STEEL, 45 FT. M.H. TENON MOUNT                  | EACH | 1.0        |
| LIGHT POLE FOUNDATION, METAL, 15 IN. BOLT CIRCLE, 8 5/8" X 8 FT. | EACH | 1.0        |
| CLOSED CIRCUIT TELEVISION CAMERA                                 | EACH | 2.0        |

MODEL: NATIONAL TRAIL WB (Sheet)  
 FILE NAME: c:\p\work\vision\hille\ad0986195\D74D00\_plan sheet.dgn

|                           |            |           |
|---------------------------|------------|-----------|
| USER NAME = jessica.hille | DESIGNED - | REVISED - |
|                           | DRAWN -    | REVISED - |
|                           | CHECKED -  | REVISED - |
| PLOT DATE = 8/15/2024     | DATE -     | REVISED - |

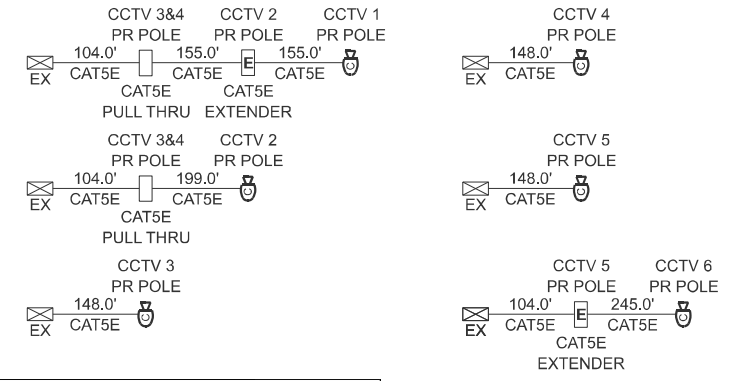
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TPIMS PLAN SHEET  
NATIONAL TRAIL WB**

|                           |              |         |              |           |
|---------------------------|--------------|---------|--------------|-----------|
| F.A. RTE.                 | SECTION      | COUNTY  | TOTAL SHEETS | SHEET NO. |
| VAR                       | D7 RA 2024-1 | VARIOUS | 13           | 9         |
| CONTRACT NO. 74D00        |              |         |              |           |
| ILLINOIS FED. AID PROJECT |              |         |              |           |

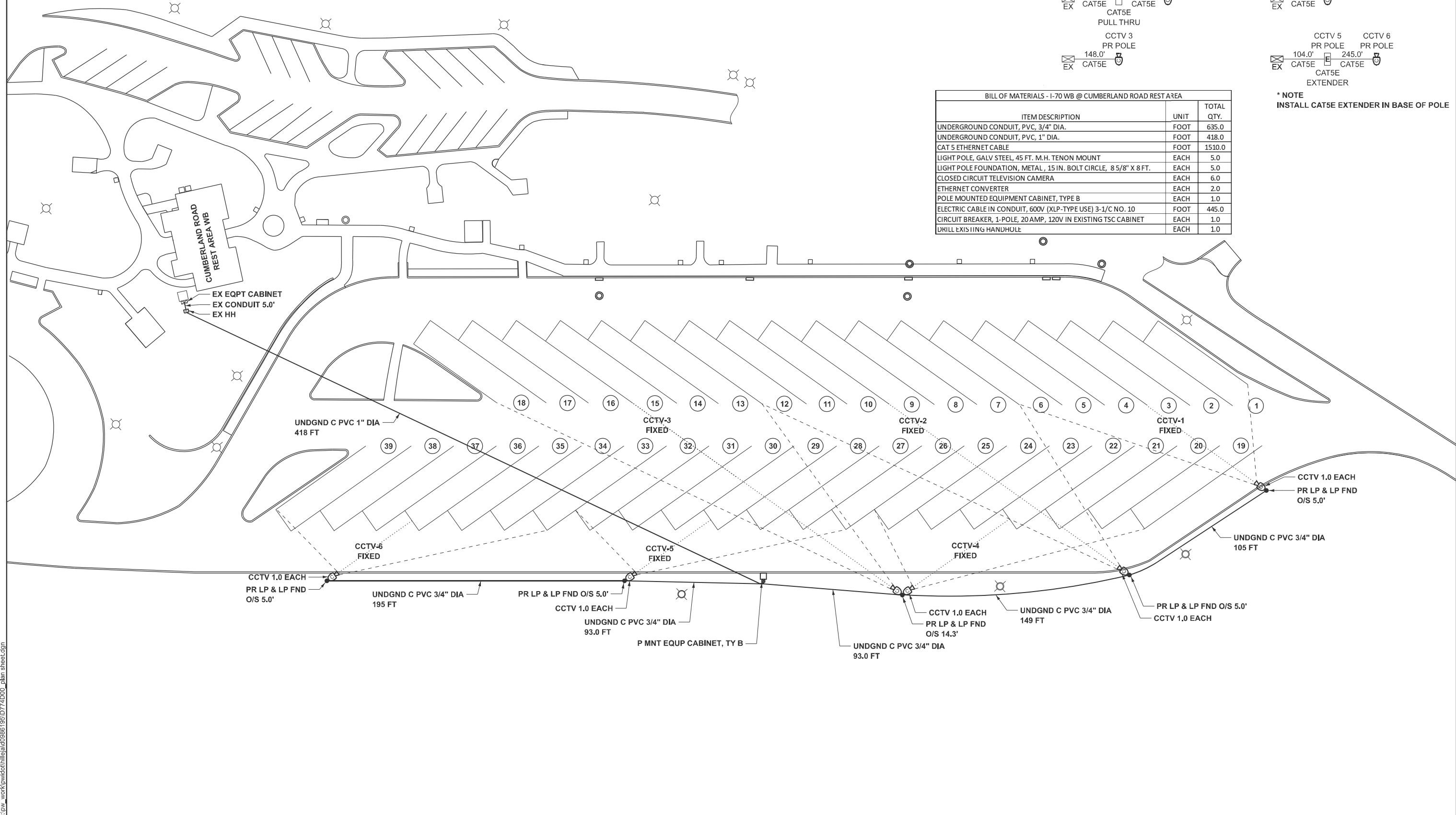
SCALE: SHEET OF SHEETS STA. TO STA.

- LEGEND**
- PR CAMERA POLE
  - ⊗ CCTV CAMERA
  - ⊞ EQPT CABINET
  - ⊞ HANDHOLE
  - ⊞ CATS E EXTENDER



**\* NOTE**  
INSTALL CAT5E EXTENDER IN BASE OF POLE

| BILL OF MATERIALS - I-70 WB @ CUMBERLAND ROAD REST AREA          |      |            |
|--|------|------------|
| ITEM DESCRIPTION   | UNIT | TOTAL QTY. |
| UNDERGROUND CONDUIT, PVC, 3/4" DIA.                              | FOOT | 635.0      |
| UNDERGROUND CONDUIT, PVC, 1" DIA.                                | FOOT | 418.0      |
| CAT 5 ETHERNET CABLE   | FOOT | 1510.0     |
| LIGHT POLE, GALV STEEL, 45 FT. M.H. TENON MOUNT                  | EACH | 5.0        |
| LIGHT POLE FOUNDATION, METAL, 15 IN. BOLT CIRCLE, 8 5/8" X 8 FT. | EACH | 5.0        |
| CLOSED CIRCUIT TELEVISION CAMERA                                 | EACH | 6.0        |
| ETHERNET CONVERTER   | EACH | 2.0        |
| POLE MOUNTED EQUIPMENT CABINET, TYPE B                           | EACH | 1.0        |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10      | FOOT | 445.0      |
| CIRCUIT BREAKER, 1-POLE, 20 AMP, 120V IN EXISTING TSC CABINET    | EACH | 1.0        |
| DRILL EXISTING HANDHOLE  | EACH | 1.0        |



MODEL: CUMBERLAND ROAD WB (Sheet)  
FILE NAME: c:\p\work\project\hille\ad\0986195\DWG\000\_plan\_sheet.dgn

|                           |            |           |
|---------------------------|------------|-----------|
| USER NAME = jessica.hille | DESIGNED - | REVISED - |
|                           | DRAWN -    | REVISED - |
|                           | CHECKED -  | REVISED - |
| PLOT DATE = 8/15/2024     | DATE -     | REVISED - |

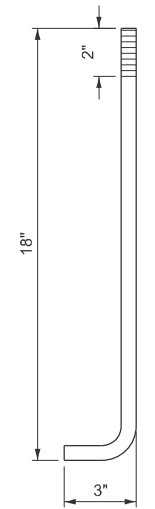
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TPIMS PLAN SHEET  
CUMBERLAND ROAD WB**

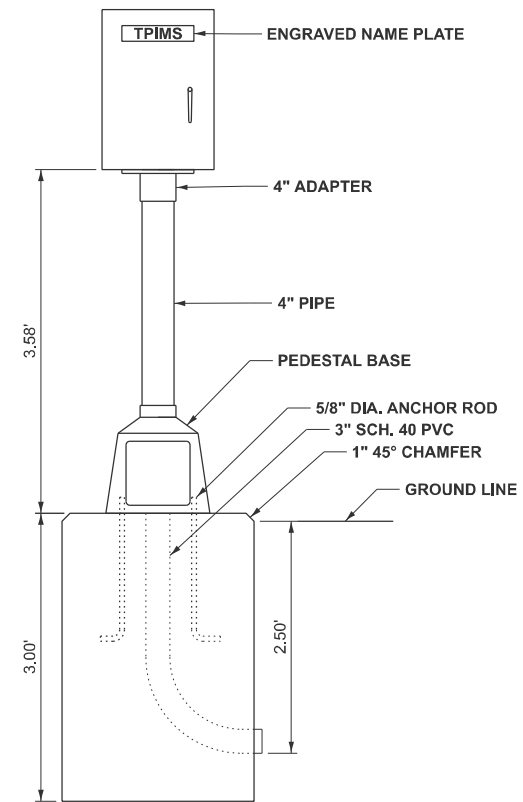
SCALE: SHEET OF SHEETS STA. TO STA.

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|---------------------------|--------------|---------|--------------|-----------|
| F.A. RTE.                 | SECTION      | COUNTY  | TOTAL SHEETS | SHEET NO. |
| VAR                       | D7 RA 2024-1 | VARIOUS | 13           | 10        |
| CONTRACT NO. 74D00        |              |         |              |           |
| ILLINOIS FED. AID PROJECT |              |         |              |           |

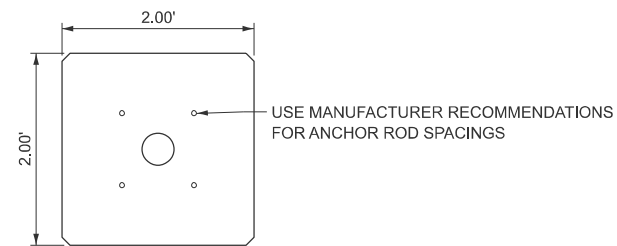
**\*NOTES**  
 USE WELDED WIRE FABRIC OR FIBER FOR CONCRETE.  
 CONCRETE FOUNDATION, STAND PAD AND ALL OTHER  
 ACCESSORIES NECESSARY TO PLACE THE POLE MOUNTED  
 EQUIPMENT CABINET SHALL BE CONSIDERED INCIDENTAL  
 AND INCLUDED IN THE COST OF POLE MOUNTED EQUIPMENT  
 CABINET TYPE B.



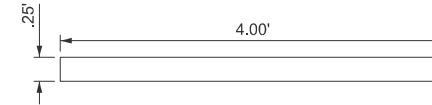
**ANCHOR ROD  
 DETAIL**



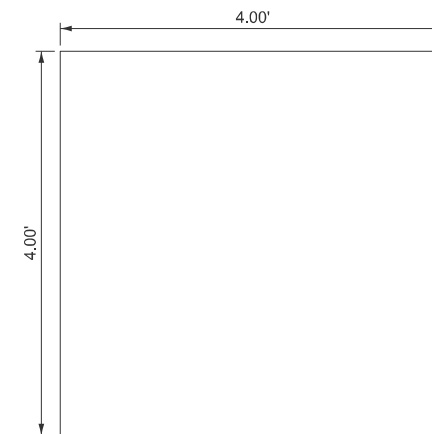
**POLE MOUNTED EQUIPMENT CABINET**



**FOUNDATION (PLAN)**



**CONCRETE STAND PAD SIDE VIEW**



**CONCRETE STAND PAD TOP VIEW**

MODEL: Foundation Detail (Sheet)  
 FILE NAME: c:\p\work\pwr\illinois\ad0986195\D74D00\_Details.dgn

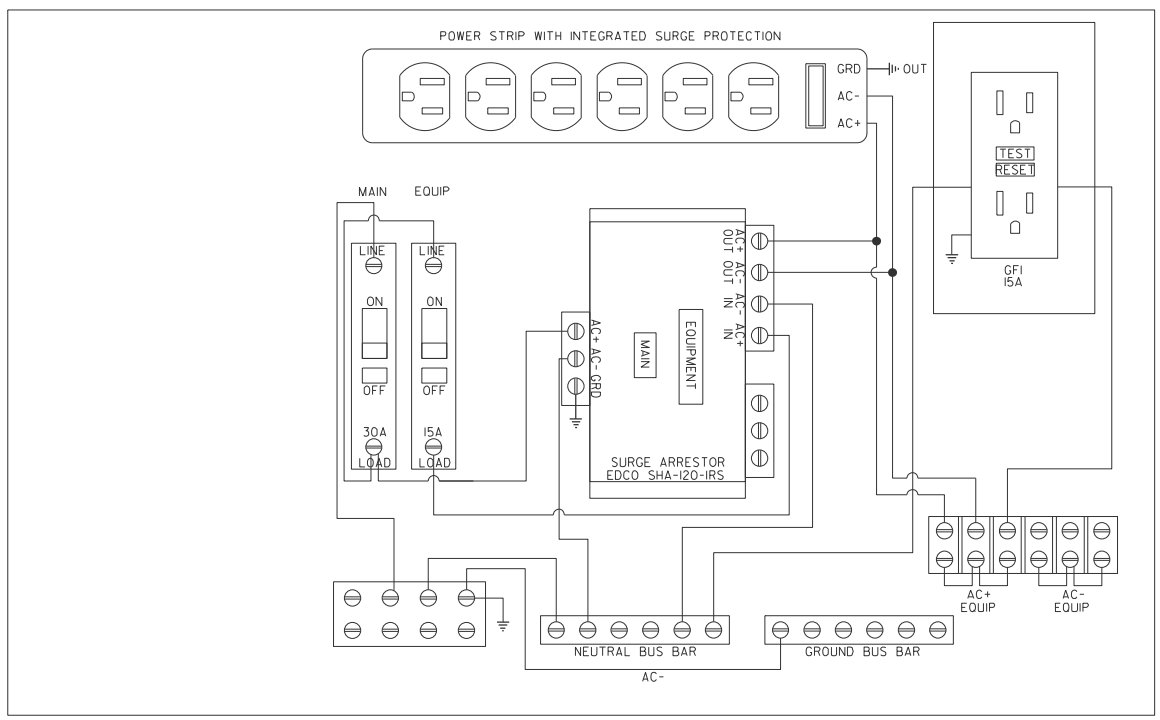
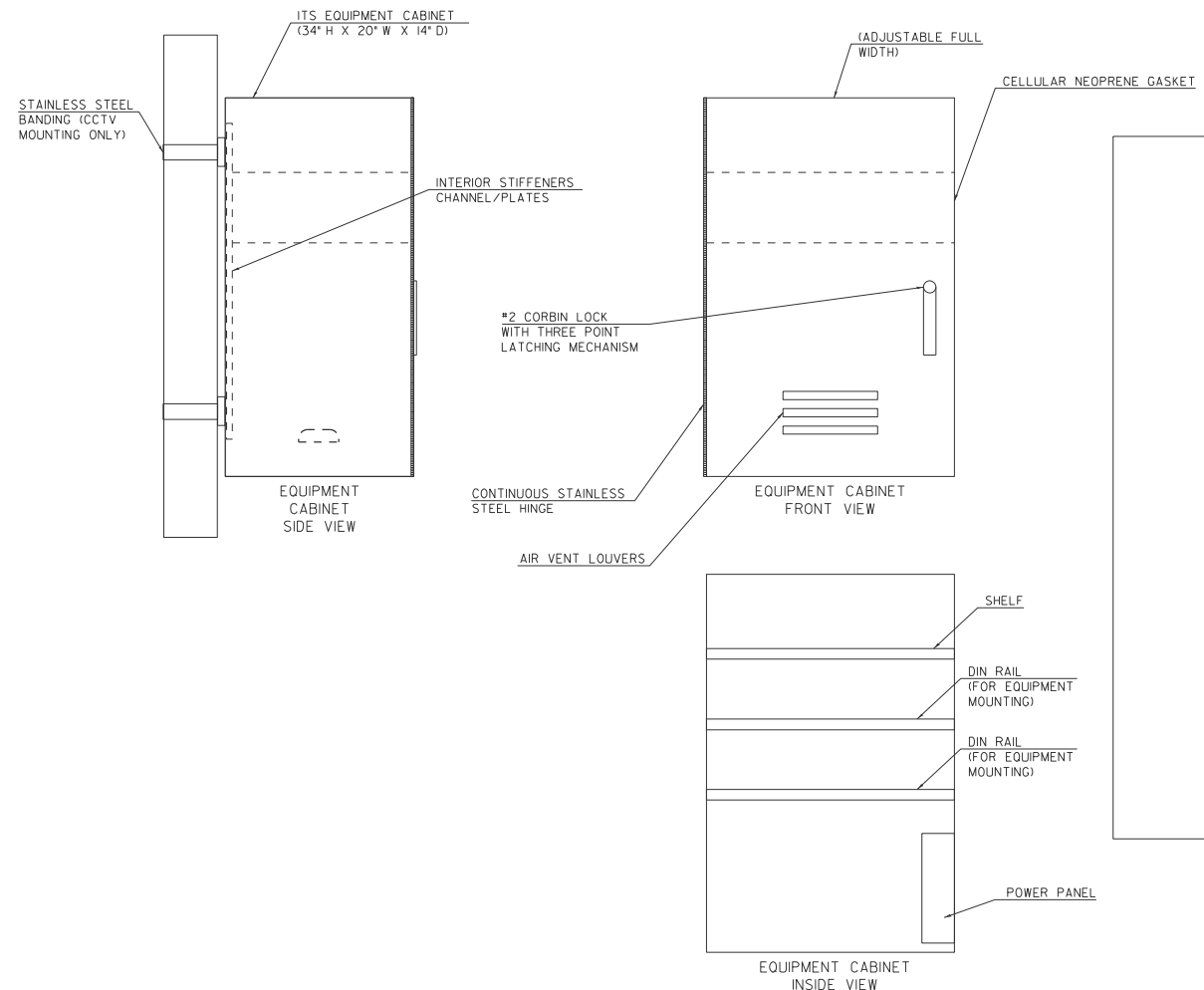
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|---------------------------|------------|-----------|
| USER NAME = Robert.Greuel | DESIGNED - | REVISED - |
|                           | DRAWN -    | REVISED - |
|                           | CHECKED -  | REVISED - |
| PLOT DATE = 8/13/2024     | DATE -     | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE FOUNDATION AND STAND PAD DETAIL  
 FOR POLE MOUNTED EQUIPMENT CABINET**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE. | SECTION      | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|-----------|--------------|----------|--------------------|-----------|
| VAR       | D7 RA 2024-1 | VARIOUS  | 13                 | 11        |
|           |              |          | CONTRACT NO. 74D00 |           |
|           |              | ILLINOIS | FED. AID PROJECT   |           |



ITS EQUIPMENT CABINET POWER PANEL DETAIL  
(POWER PANEL TO BE EQUIPPED WITH PLEXI-GLASS SAFETY SHIELD)

- NOTES:**
1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 34" (H) X 20" (W) X 14" (D). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.
  2. THE CABINET SHALL BE FURNISHED WITH ONE ADJUSTABLE HEIGHT SHELF, THREE POSITION DOOR STOP (90, 120, 180 DEGREES), NEOPRENE DOOR GASKET, AIR VENT LOUVERS, CONTINUOUS STAINLESS STEEL DOOR HINGE, INTERIOR STIFFENERS FOR MOUNTING, THREE POINT LATCHING MECHANISM WITH #2 CORBIN LOCK, POWER PANEL, AND ALL STAINLESS STEEL HARDWARE.
  3. THE CABINET SHALL BE EQUIPPED WITH A THERMOSTATICALLY CONTROLLED VENTILATION FAN, 250 WATT HEATER STRIP (WITH GUARD), AND DELUXE PLEATED AIR FILTER.

MODEL: POLE MOUNTED EQUIPMENT CABINET (Sheet)  
FILE NAME: c:\p\work\wv\hille\id0986195\ID774000\_CABINET DETAILS.dgn

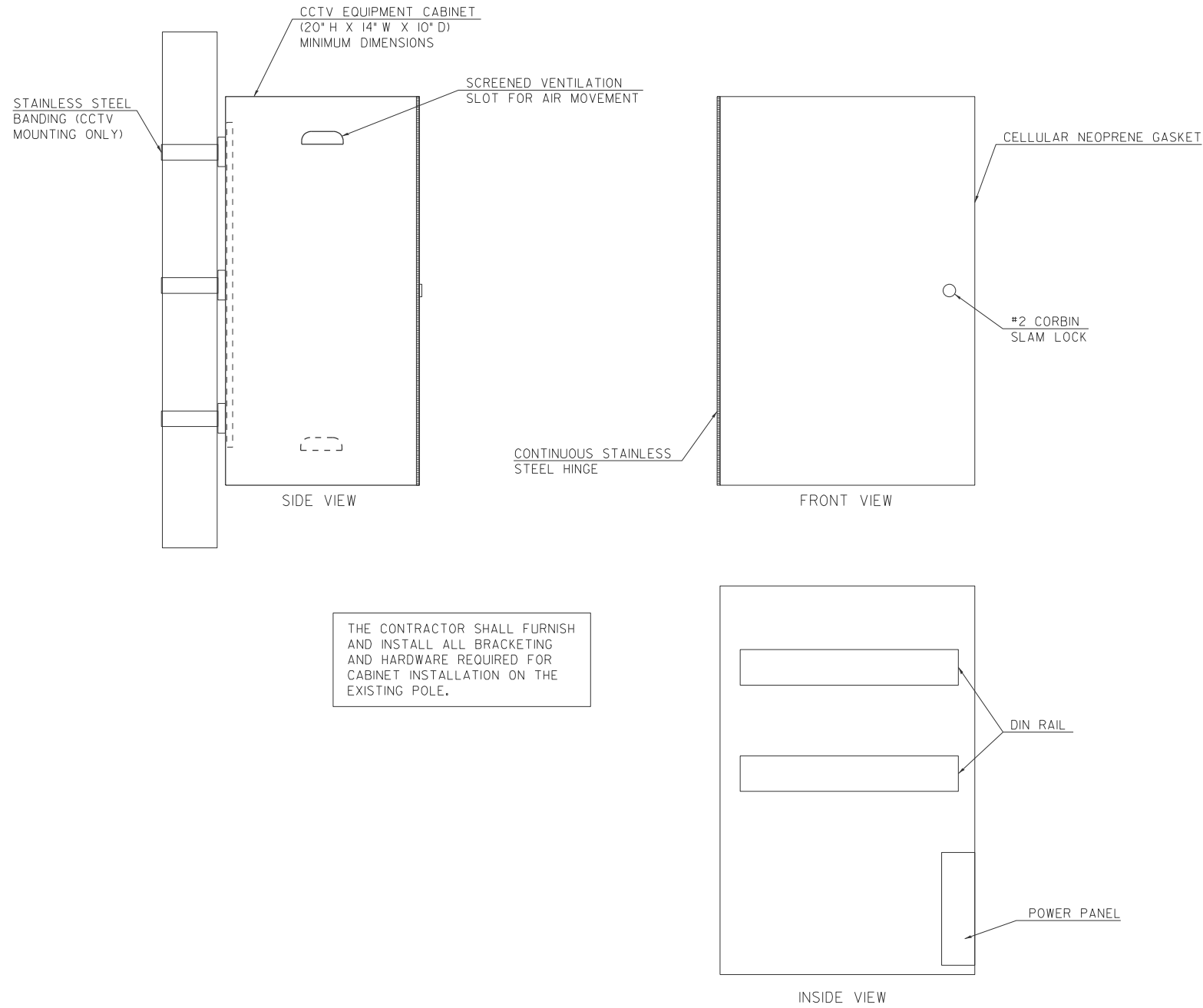
|                           |            |           |
|---------------------------|------------|-----------|
| USER NAME = jessica.hille | DESIGNED - | REVISED - |
|                           | DRAWN -    | REVISED - |
|                           | CHECKED -  | REVISED - |
| PLOT DATE = 8/15/2024     | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

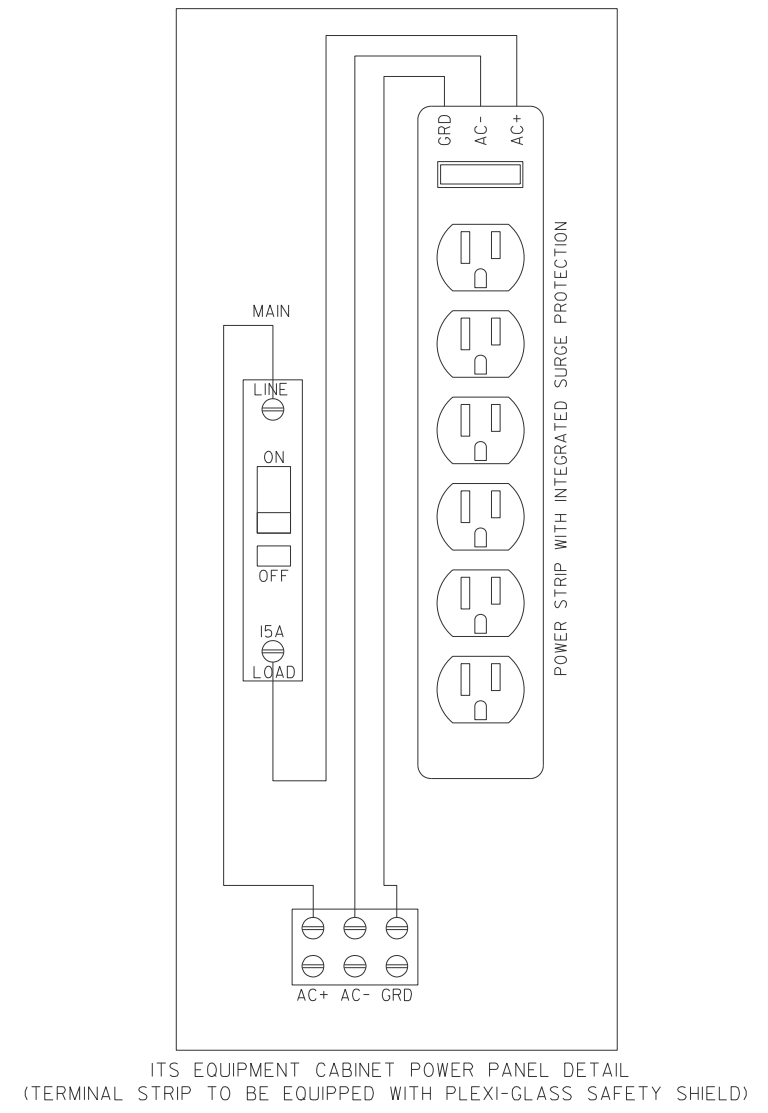
**POLE MOUNTED EQUIPMENT CABINET, TYPE B DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |               |         |              |           |
|---------------------------|---------------|---------|--------------|-----------|
| F.A. RTE.                 | SECTION       | COUNTY  | TOTAL SHEETS | SHEET NO. |
| VAR                       | D7 RA 20204-1 | VARIOUS | 13           | 12        |
| CONTRACT NO. 74D00        |               |         |              |           |
| ILLINOIS FED. AID PROJECT |               |         |              |           |



THE CONTRACTOR SHALL FURNISH AND INSTALL ALL BRACKETING AND HARDWARE REQUIRED FOR CABINET INSTALLATION ON THE EXISTING POLE.



NOTES:

1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 20" (H) X 14" (W) X 10" (D) (NOMINAL). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.
2. THE CABINET SHALL BE EQUIPPED WITH A #2 CORBIN SLAM LOCK AND ALL STAINLESS STEEL HARDWARE.

MODEL: CLOSED CIRCUIT CABINET DETAIL (Sheet)  
FILE NAME: c:\p\work\evr\hille\id0886195\ID774000\_CABINET DETAILS.dgn

|                           |            |           |
|---------------------------|------------|-----------|
| USER NAME = jessica.hille | DESIGNED - | REVISED - |
|                           | DRAWN -    | REVISED - |
|                           | CHECKED -  | REVISED - |
| PLOT DATE = 8/14/2024     | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CLOSED CIRCUIT TELEVISION CABINET DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |              |         |              |           |
|---------------------------|--------------|---------|--------------|-----------|
| F.A. RTE.                 | SECTION      | COUNTY  | TOTAL SHEETS | SHEET NO. |
| VAR                       | D7 RA 2024-1 | VARIOUS | 13           | 13        |
| CONTRACT NO. 74D00        |              |         |              |           |
| ILLINOIS FED. AID PROJECT |              |         |              |           |