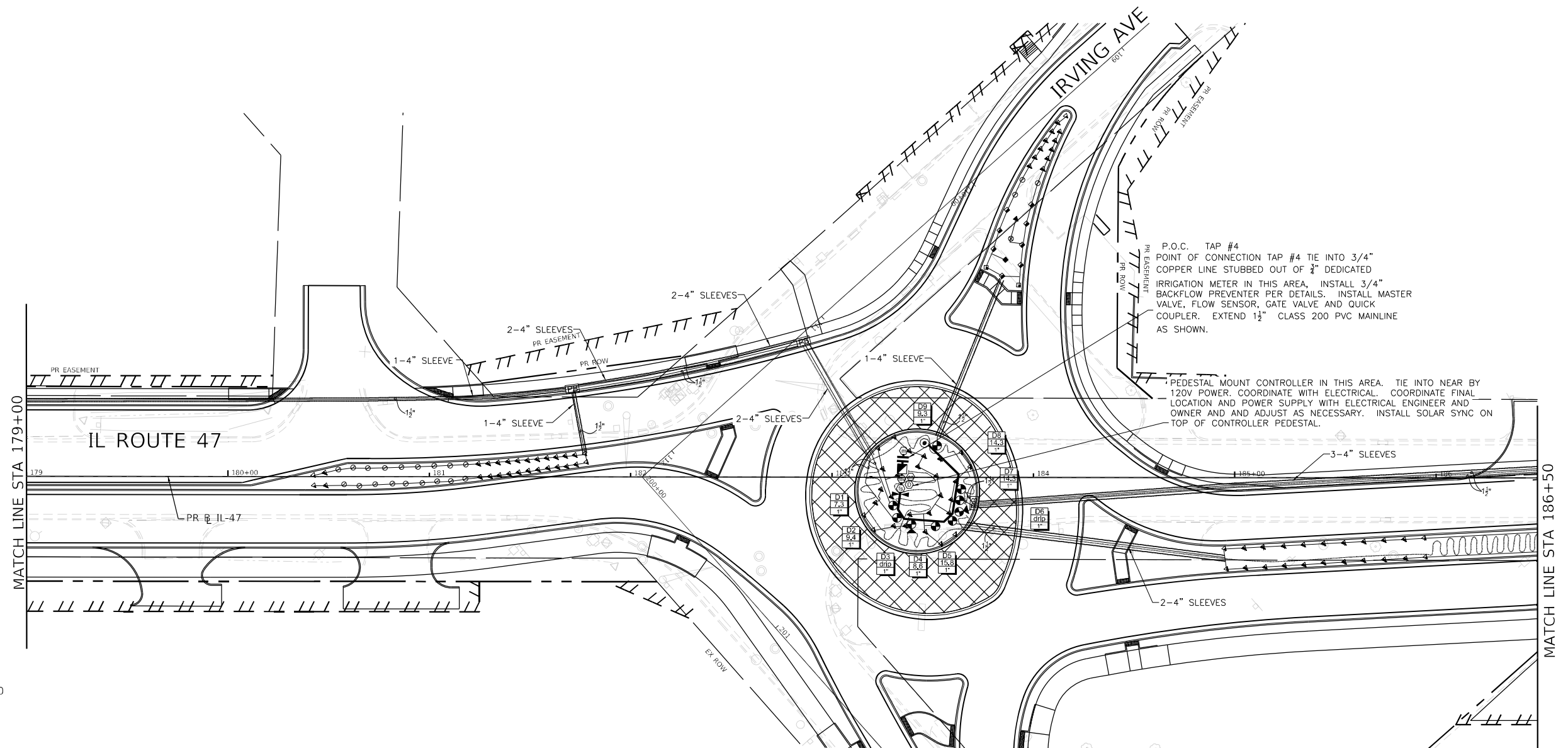
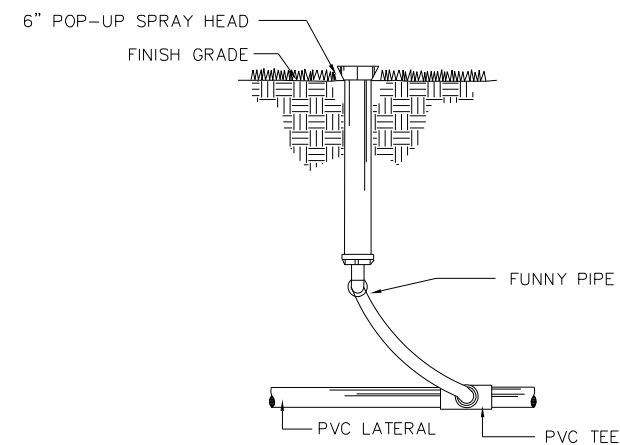
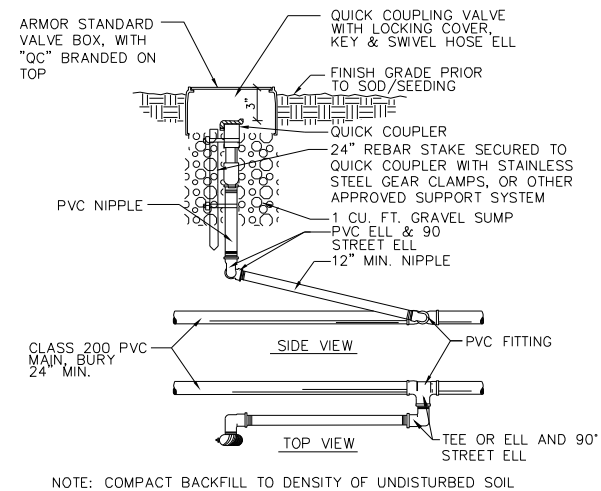
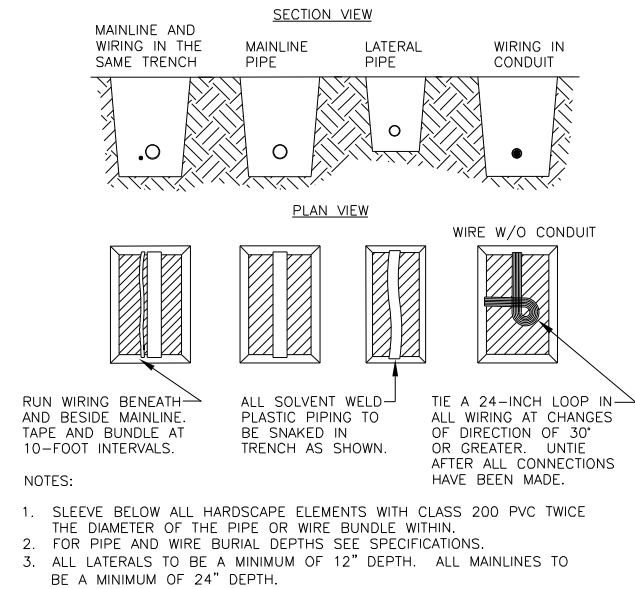
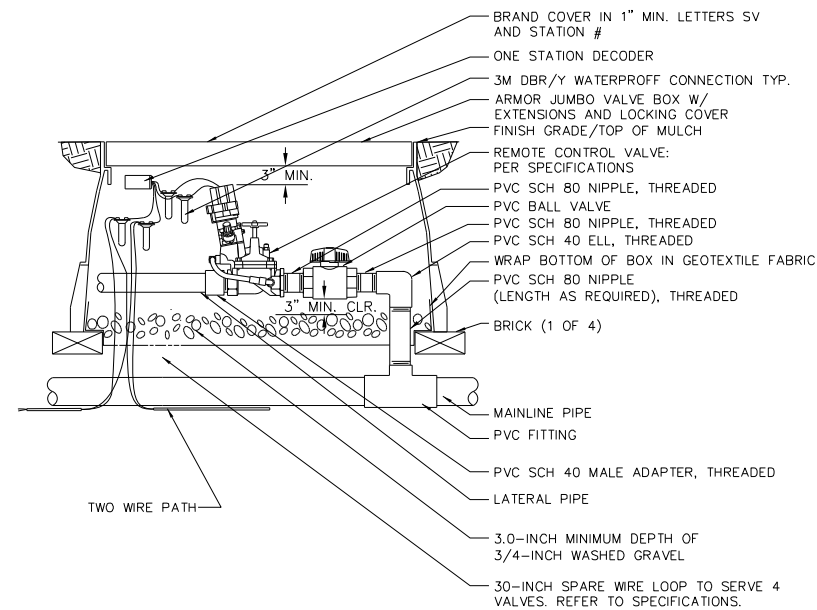


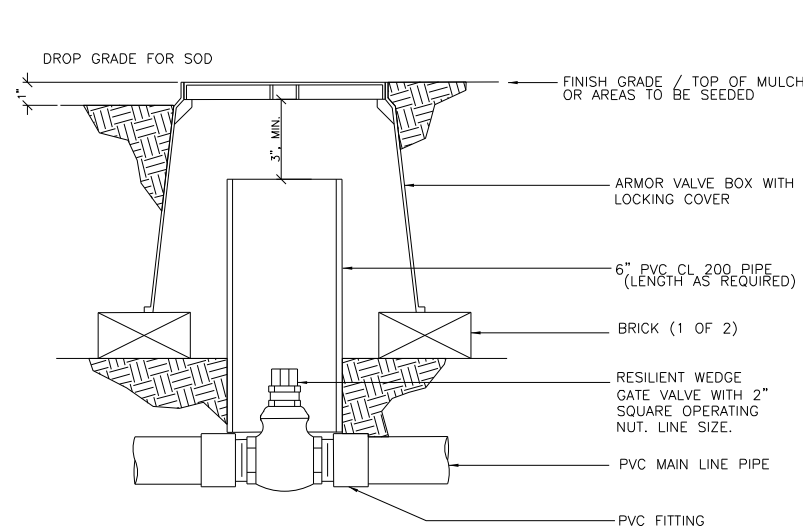
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|               |                      |      |         |
|---------------|----------------------|------|---------|
| SCALE: 1"=30' | SHEET 6 OF 10 SHEETS | STA. | TO STA. |
|---------------|----------------------|------|---------|

|                     |                        |          |                           |                 |              |
|---------------------|------------------------|----------|---------------------------|-----------------|--------------|
| F.A.P<br>RTE.       | SECTION NO.            |          | COUNTY                    | TOTAL<br>SHEETS | SHEET<br>NO. |
| 326                 | 2024-1052-N, C, SW, FL |          | McHENRY                   | 941             | 704          |
|                     |                        |          | <b>CONTRACT NO. 62X94</b> |                 |              |
| FED. ROAD DIST. NO. |                        | ILLINOIS | FED. AID PROJECT          |                 |              |





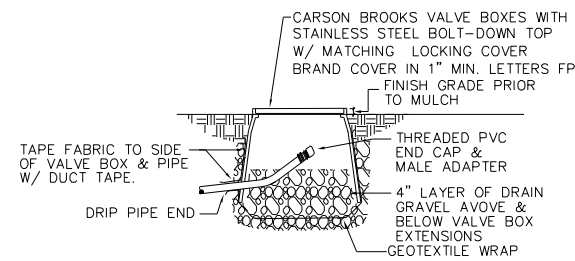


NOTE:

1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.
2. INSTALL A 4" THICK CONCRETE PAD BELOW VALVE WITH NO. 4 REBAR WHEN USING PUSH ON TYPE VALVES.

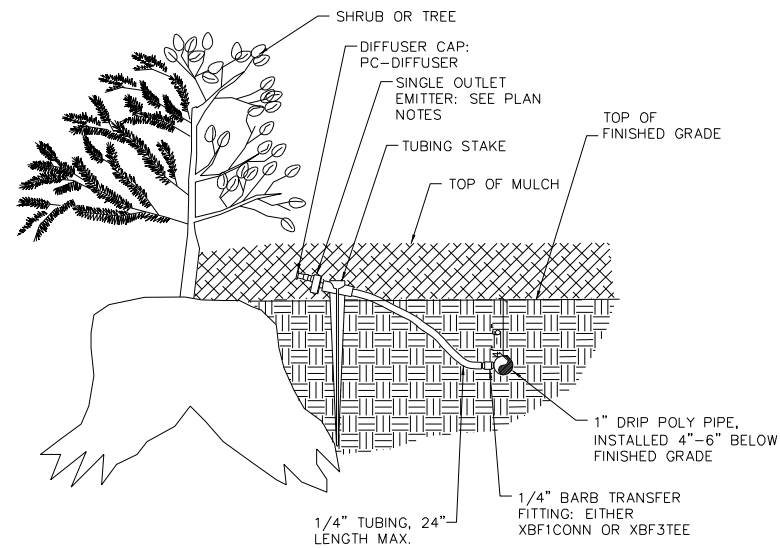
## 5 ISOLATION GATE VALVE

NOT TO SCALE



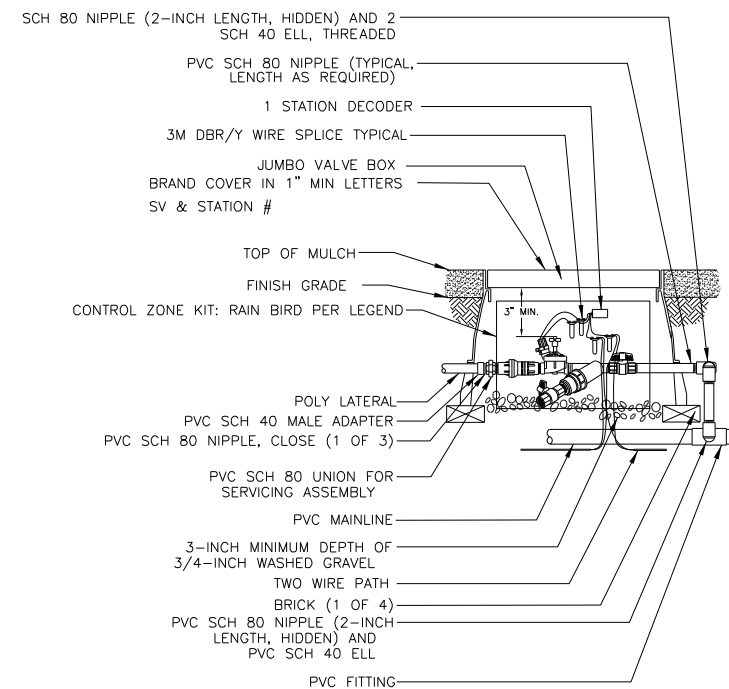
## 7 DRIP FLUSH VALVE

NOT TO SCALE



## 6 DRIP EMITTER PLACEMENT

NOT TO SCALE



## 8 DRIP VALVE DETAIL

NOT TO SCALE



- \* CONCRETE PAD PENETRATIONS TO BE 1" LARGER THAN TUBING DIAMETER
- \* REFER TO ENCLOSURE DETAIL FOR CONCRETE PAD DIMENSIONS
- \* DIAMETER OF FITTINGS AND TUBING SHALL EQUAL DIAMETER BACKFLOW PREVENTER UNLESS NOTED OTHERWISE



NOTE: CONTRACTOR TO USE LOCKSHIELD BRACKETS BY BPGD

BPGD GUARDSHACK GS SERIES ENCLOSURE

CONCRETE PAD

6"-CRUSHER FINES

EQ

H

L

Y

Q

5"

1"

PLAN

W

6"

6"

L PLUS 6"

The drawing consists of two views: a side elevation and a plan view. The side elevation shows a rectangular enclosure with a height 'H' and length 'L'. It is supported by a concrete pad. The base of the enclosure is shown with a cross-hatched pattern, and the concrete pad is labeled 'CONCRETE PAD'. The enclosure is supported by a base with a width of '5"' and a height of '1"'. The base is supported by a layer of '6"-CRUSHER FINES'. The side elevation also shows a cross-hatched pattern on the enclosure walls. The plan view shows the enclosure from above, with a width 'W' and a length 'L PLUS 6"'. It shows the enclosure is supported by a concrete pad with a width of '6"' and a length of '6"'. The plan view also shows the enclosure is supported by a layer of '6"-CRUSHER FINES'. The plan view includes dimensions 'EQ' (equal) and 'Q' (quantity) for the concrete pad and crusher fines. A note at the top states: 'NOTE: CONTRACTOR TO USE LOCKSHIELD BRACKETS BY BPGD'. The enclosure is labeled 'BPGD GUARDSHACK GS SERIES ENCLOSURE'.

- \* INSTALL ENCLOSURE ANCHORS AS PER MANUFACTURER'S RECOMMENDATIONS.
- \* PROVIDE OWNER WITH KEYED PADLOCK FOR ENCLOSURE
- \* PROVIDE ENCLOSURE WITH STANDARD DARK GREEN POWDER COATED FINISH
- \* PAD PENETRATIONS FOR BACKFLOW PREVENTER RISERS TO BE 1" LARGER THAN RISER DIAMETER.
- \* TOP SURFACE OF CONCRETE PAD SHALL BE 1" ABOVE FINISH GRADE

## 2 BACKFLOW ENCLOSURE





MODEL: Default  
FILE NAME: p:\bacon\pawu.bentley.com\AECOM\_DS21\_NA\_2020\Documents\60632011-IL-47\900-CAD\03\_SHEETS\Lighting\0160X17-cthtlightlegend-d01.dgn



**100 S. Wacker Drive Suite 400**  
**Chicago, Illinois 60606**

|                               |                   |           |
|-------------------------------|-------------------|-----------|
| USER NAME = MTadden           | DESIGNED - MK     | REVISED - |
|                               | DRAWN - MT        | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - MR      | REVISED - |
| PLOT DATE = 2/6/2025          | DATE - 02/06/2025 | REVISED - |

| ABBREVIATIONS |                              |
|---------------|------------------------------|
| ABBREVIATION  | DESCRIPTION                  |
| AC            | ALTERNATING CURRENT          |
| A/C           | AERIAL CABLE                 |
| AFG           | ABOVE FINISHED GRADE         |
| AMP           | AMPERE                       |
| CB            | CIRCUIT BREAKER              |
| CKT           | CIRCUIT                      |
| CNC           | COILABLE NONMETALLIC CONDUIT |
| CP            | CONTROL PANEL                |
| DIA.          | DIAMETER                     |
| E             | EXISTING UNIT TO REMAIN      |
| ECA           | ELECTRIC CABLE ASSEMBLY      |
| FT            | FEET OR FOOT                 |
| FU            | FUSE                         |
| GND           | GROUND                       |
| HID           | HIGH INTENSITY DISCHARGE     |
| HMLT          | HIGH MAST LIGHT TOWER        |
| HPS           | HIGH PRESSURE SODIUM         |
| JB            | JUNCTION BOX                 |
| KVA           | KILOVOLT-AMPERE              |
| KW            | KILOWATTS                    |
| M.A.          | MAST ARM                     |
| M.H.          | MOUNTING HEIGHT              |
| NO.           | NUMBER                       |
| P             | POLE                         |
| RGC           | RIGID GALVANIZED CONDUIT     |
| RGS           | RIGID GALVANIZED STEEL       |
| STA           | STATION                      |
| T             | TEMPORARY LIGHTING UNIT      |
| TB            | TRANSFORMER BASE             |
| TMP           | TEMPORARY                    |
| UD            | UNIT DUCT                    |
| V             | VOLT                         |
| W             | WATT                         |
| WP            | WOOD POLE                    |
| XFMR          | TRANSFORMER                  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-47 & US 14 – LIGHTING LEGEND, GENERAL NOTES, AND SOQ  
IDOT DISTRICT 1

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION             | COUNTY             | TOTAL SHEETS     | SHEET NO. |
|-------------|---------------------|--------------------|------------------|-----------|
| 326         | 2024-1052-N,C,SW,FL | MCHENRY            | 941              | 709       |
|             |                     | CONTRACT NO. 62X94 |                  |           |
|             |                     | ILLINOIS           | FED. AID PROJECT |           |

IDOT LIGHTING LEGEND



PROPOSED LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H , 120V, 45 FT. M.H., 15 FT. M.A., ON STEEL COMBINATION MAST ARM AND POLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)



PROPOSED SINGLE ARM LIGHTING UNIT 47.5 FT. M.H., 15' M.A., WITH PROPOSED LED LUMINAIRE, 240V, OUTPUT DESIGNATION H



TEMPORARY SINGLE ARM LIGHTING UNIT 50 FT. M.H., 15' M.A., WITH TEMPORARY LED LUMINAIRE, 240V, OUTPUT DESIGNATION H



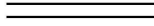
TEMPORARY SINGLE ARM LIGHTING UNIT 50 FT. M.H., 15' M.A., WITH TEMPORARY LED LUMINAIRE, 240V, OUTPUT DESIGNATION I



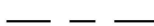
EXISTING SINGLE ARM COMBINATION LIGHTING UNIT TO BE REMOVED AND SALVAGED



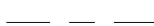
EXISTING SINGLE ARM LIGHTING UNIT TO BE REMOVED AND SALVAGED



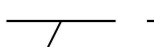
UNDERGROUND RIGID GALVANIZED STEEL CONDUIT (RGC) SIZE AS INDICATED



UNIT DUCT, AS SPECIFIED IN PLANS



EXISTING CABLE AND CONDUIT TO REMAIN IN PLACE



EXISTING CABLE AND CONDUIT TO BE REMOVED



PROPOSED LIGHTING CONTROLLER  
BASE MOUNTED 240/480V, 200 AMP.,  
SINGLE PHASE, 3 WIRE



EXISTING LIGHTING CONTROLLER TO BE REMOVED AND SALVAGED

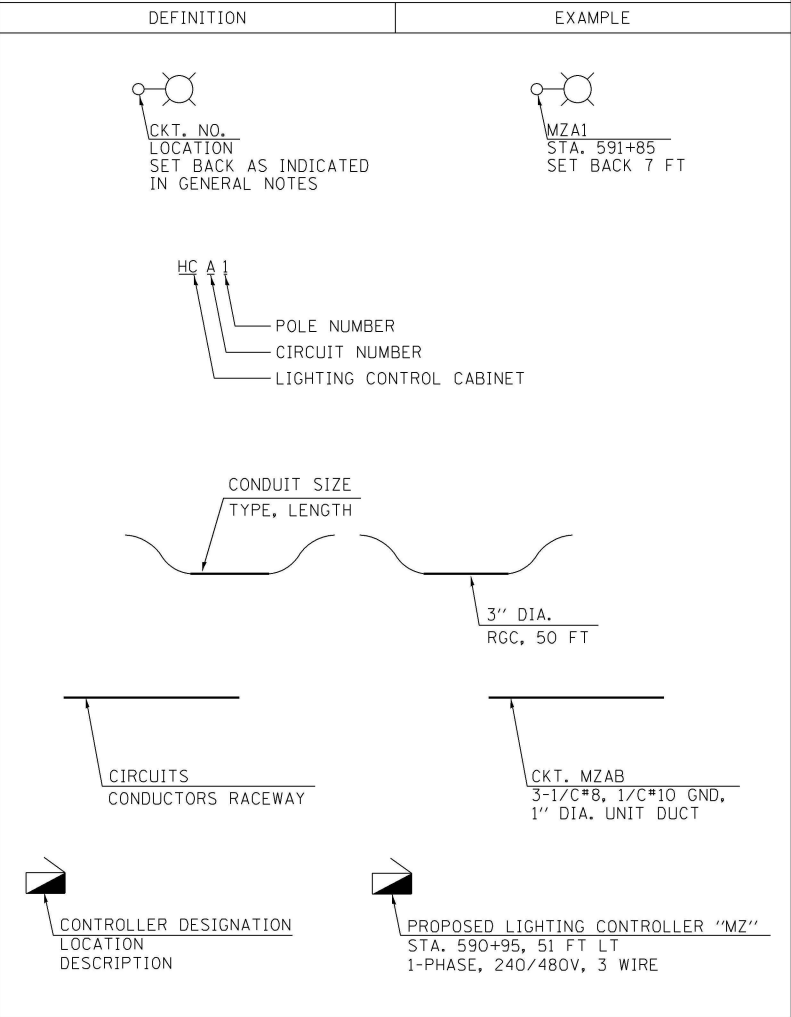


PROPOSED ELECTRIC SERVICE LOCATION



GROUND ROD, 5/8" X 10 FT

CALL-OUT SAMPLES



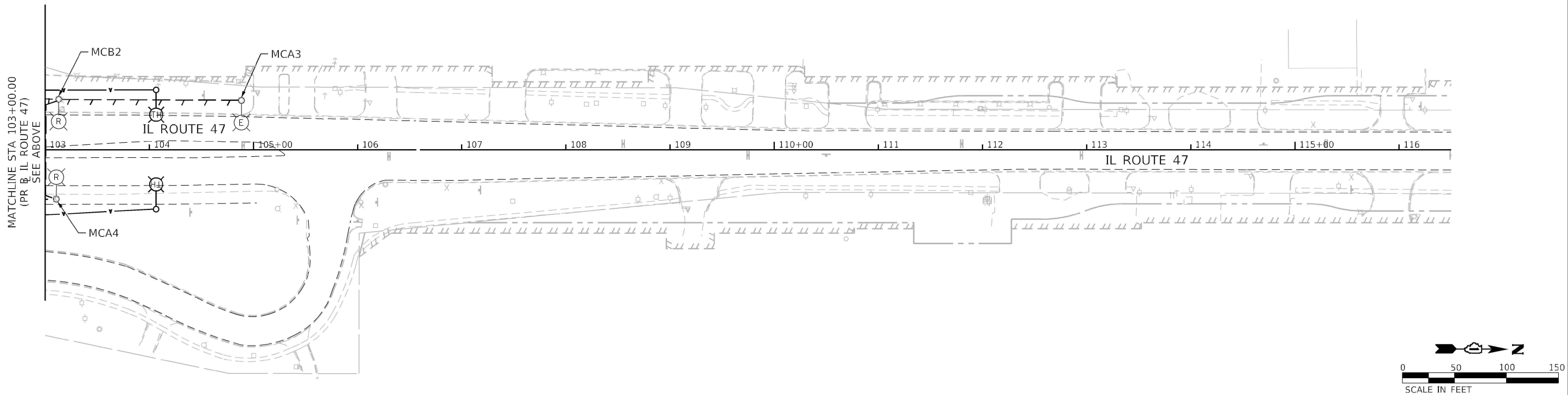
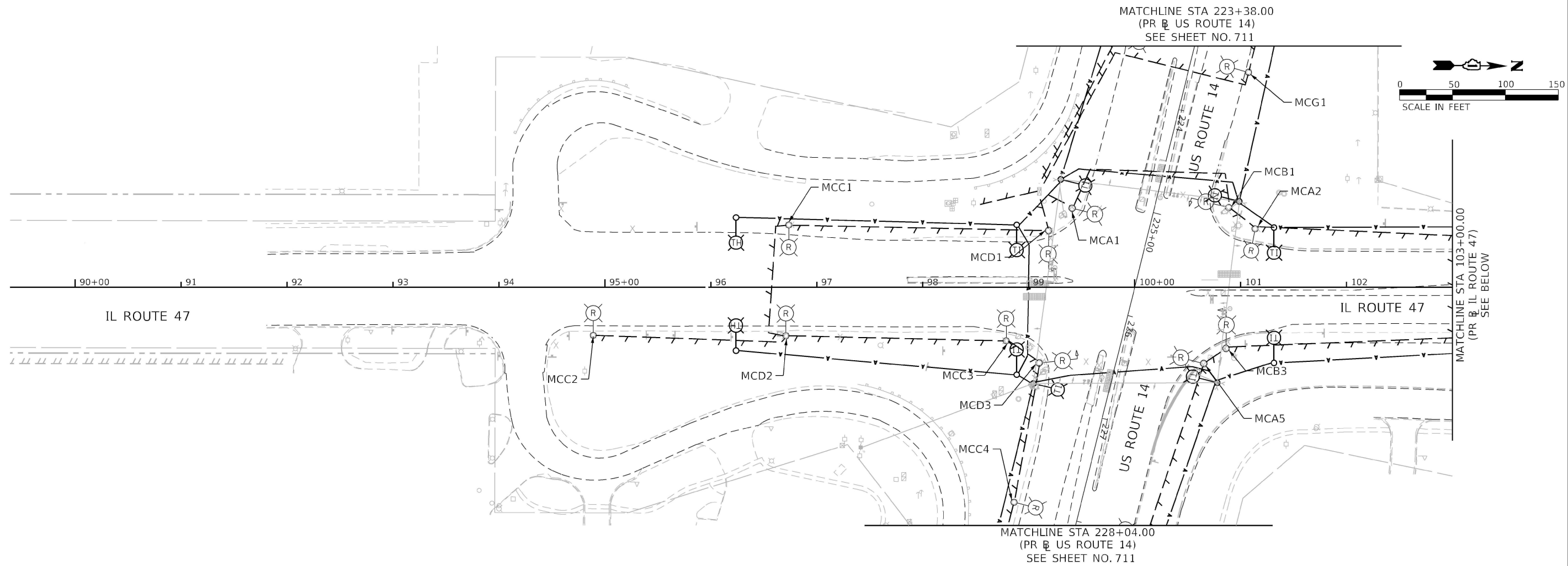
GENERAL NOTES:

- LIGHT POLE SET BACKS ARE MEASURED FROM FACE OF CURB TO CENTER OF POLE.
- OFFSETS FOR TEMPORARY LIGHT POLES ARE MEASURED FROM ROADWAY CENTERLINE TO CENTER OF POLE.
- WHEREVER TEMPORARY AERIAL CABLE IS REQUIRED TO CROSS AN EXISTING OR PROPOSED ROADWAY, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 20 FEET OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIMES.
- LUMINAIRES FROM EXISTING LIGHTING UNITS TO BE REMOVED SHALL BE SALVAGED TO IDOT. THE ASSOCIATED POLES, ARMS, AND BREAKAWAY DEVICES SHALL BE SALVAGED TO IDOT. THIS WORK WILL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, SALVAGE." EXISTING LIGHTING CONTROLLER TO BE REMOVED SHALL BE SALVAGED TO IDOT. THIS WORK SHALL BE PAID FOR WITH THE "REMOVAL OF LIGHTING CONTROLLER" PAY ITEM.

IDOT LIGHTING SCHEDULE OF QUANTITIES

| Item                                                                                   | Unit   | Quantity |
|----------------------------------------------------------------------------------------|--------|----------|
| ELECTRIC SERVICE INSTALLATION                                                          | EACH   | 1        |
| ELECTRIC UTILITY SERVICE CONNECTION                                                    | L SUM  | 0.3      |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.                                         | FOOT   | 715      |
| UNIT DUCT, 600V, 4-1/C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT   | 5825     |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM                              | FOOT   | 210      |
| AERIAL CABLE, 4-1/C NO. 6 WITH MESSENGER WIRE                                          | FOOT   | 4750     |
| LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H                                          | EACH   | 30       |
| LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP                                     | EACH   | 1        |
| LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM                                   | EACH   | 26       |
| LIGHT POLE, WOOD, 60 FOOT, CLASS 3, WITH 15FT MAST ARM                                 | EACH   | 24       |
| LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8"                                | EACH   | 26       |
| BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE                              | EACH   | 26       |
| REMOVAL OF LIGHTING UNIT, SALVAGE                                                      | EACH   | 29       |
| REMOVAL OF POLE FOUNDATION                                                             | EACH   | 29       |
| REMOVAL OF LIGHTING CONTROLLER                                                         | EACH   | 1        |
| REMOVAL OF LIGHTING CONTROLLER FOUNDATION                                              | EACH   | 1        |
| REMOVE ELECTRIC CABLE FROM CONDUIT                                                     | FOOT   | 15288    |
| TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H                                | EACH   | 16       |
| TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I                                | EACH   | 8        |
| TEMPORARY LIGHTING CONTROLLER                                                          | EACH   | 1        |
| LUMINAIRE SAFETY CABLE ASSEMBLY                                                        | EACH   | 30       |
| MAINTENANCE OF LIGHTING SYSTEM                                                         | CAL MO | 24       |





MODEL Default  
FILE Name: j:\bacon\p\p\benley.com\AECOM DS21\_NA\_2020\Documents\6063701-IL-47\100-CADD\10\_CADD\03\_SHEETS\Lighting\160X17-rev-light-01.dgn

**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = MTodden          | DESIGNED - MK     | REVISED - |
|                              | DRAWN - MT        | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - MR      | REVISED - |
| PLOT DATE = 2/5/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-47 & US 14 - LIGHTING REMOVAL PLAN  
IDOT DISTRICT 1

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION             | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL | MCHENRY | 941          | 710       |
| CONTRACT NO. 62X94        |                     |         |              |           |
| ILLINOIS FED. AID PROJECT |                     |         |              |           |





MODEL: Default  
FILE NAME: \\nascom-nasgw.bentley.com\AECOM\_DS21\_NA\_2020\Documents\60627011-IL-47\000-CAD\03\_SHEETS\Lighting\03\_60X17-rt-high-02.dgn

**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

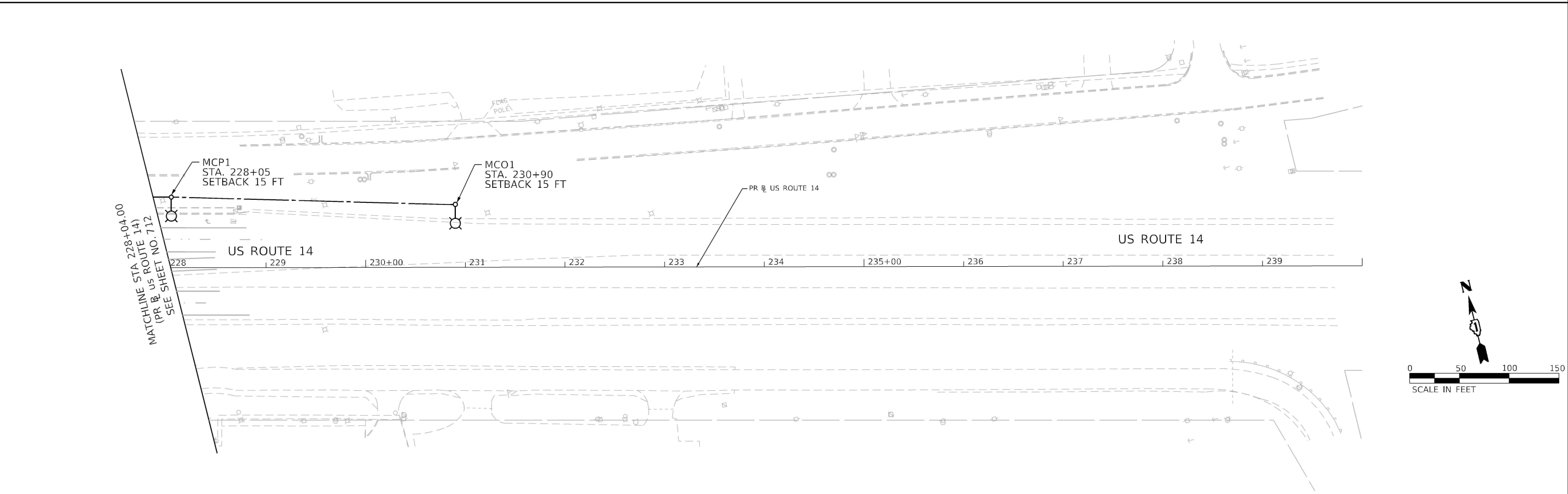
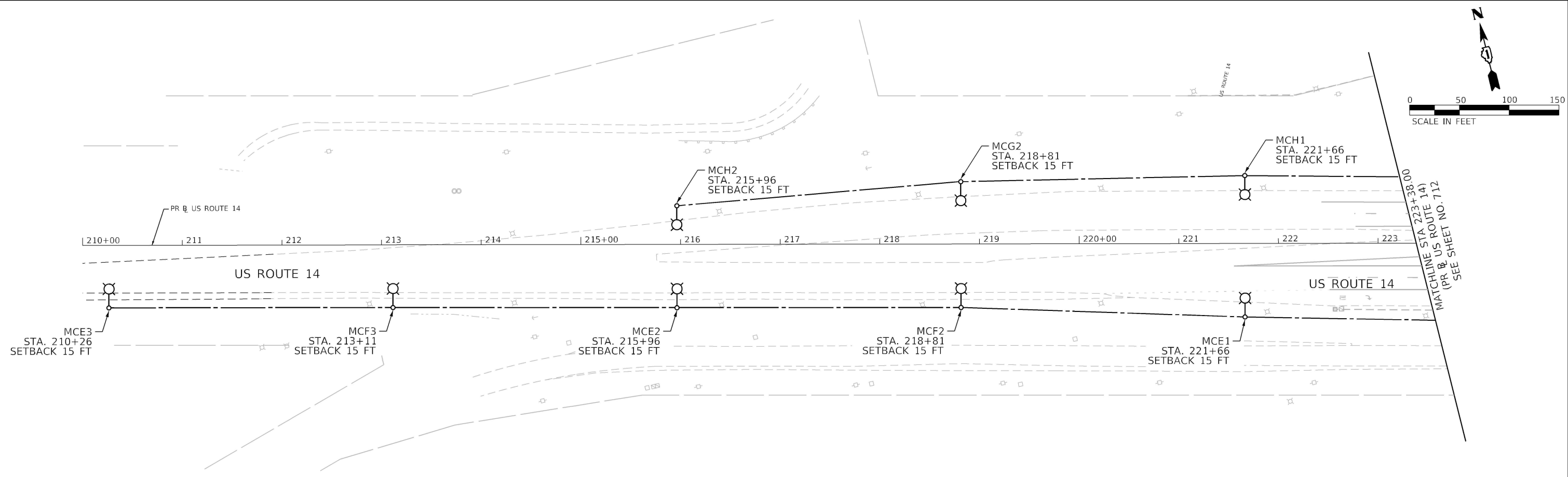
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|-------------------------------|-------------------|-----------|
| USER NAME = MTodden           | DESIGNED - MK     | REVISED - |
|                               | DRAWN - MT        | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - MR      | REVISED - |
| PLOT DATE = 2/5/2025          | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

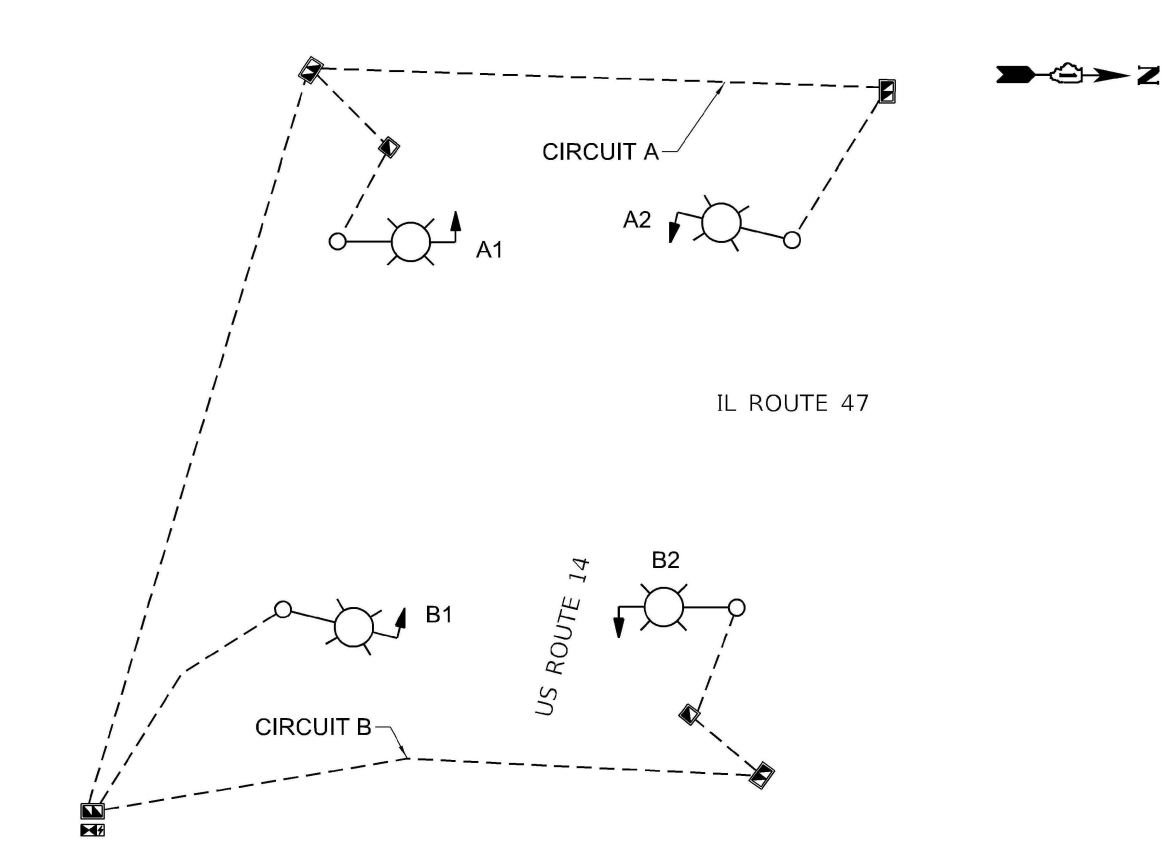
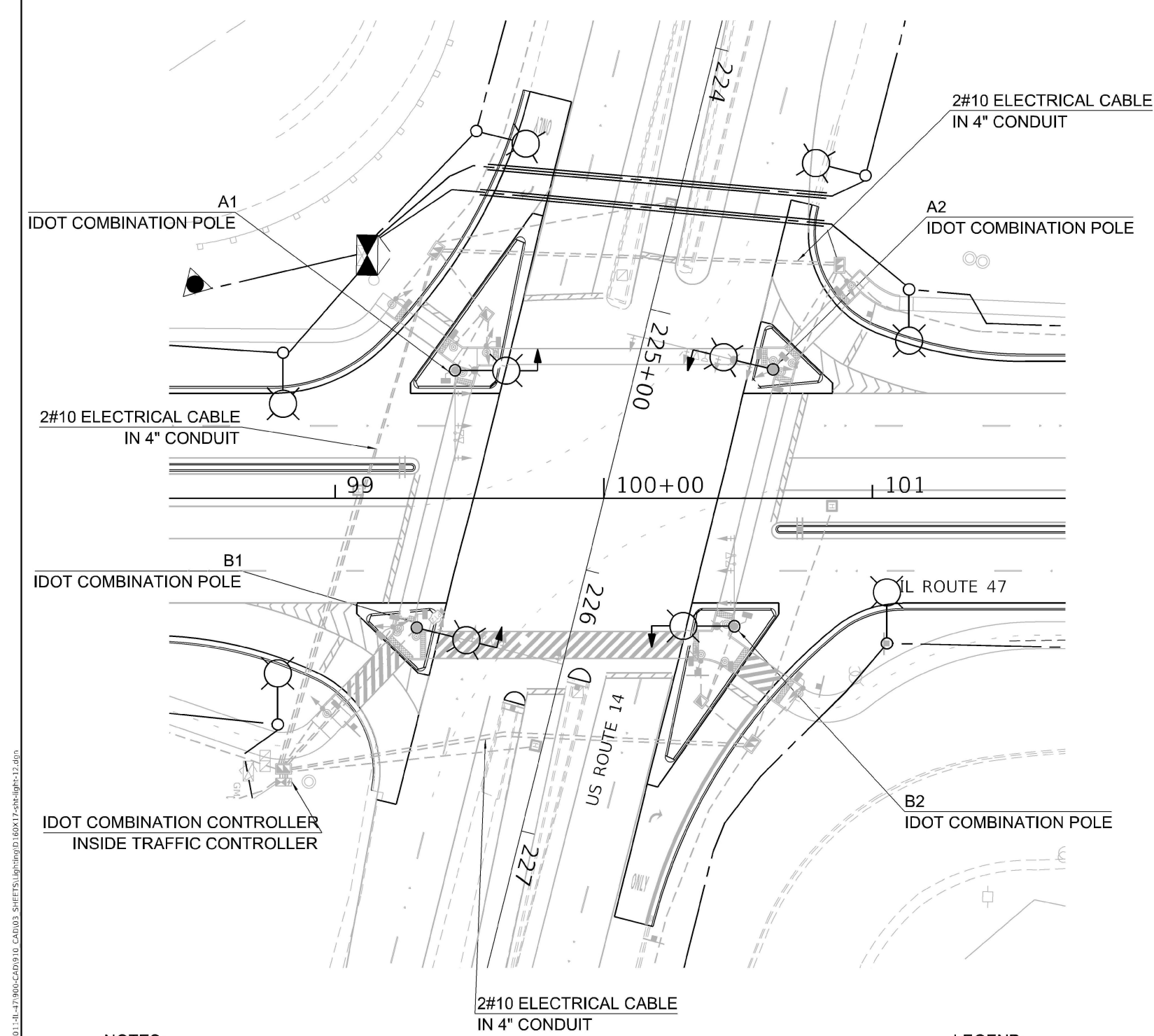
IL-47 & US 14 – PROPOSED LIGHTING PLAN  
IDOT DISTRICT 1

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION             | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL | MCHENRY | 941          | 713       |
| CONTRACT NO. 62X94        |                     |         |              |           |
| ILLINOIS FED. AID PROJECT |                     |         |              |           |



MODEL Default  
FILE NAME: j:\il47-us14\combn-lighting\combn-lighting.dwg  
USER: MTadden  
DATE: 2/5/2025  
PROJECT: IL-47 & US 14 - PROPOSED COMBINATION LIGHTING PLAN  
SHEET: 326 OF 941  
CONTRACT: 62X94



ONE LINE DIAGRAM  
IL ROUTE 47. AND US ROUTE 14

| IDOT COMBINATION LIGHTING SCHEDULE OF QUANTITIES<br>IL ROUTE 47 AND US ROUTE 14 |      |          |
|---------------------------------------------------------------------------------|------|----------|
| DESCRIPTION                                                                     | UNIT | QUANTITY |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10                       | FOOT | 1320     |
| LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H                                   | EACH | 4        |
| LUMINAIRE SAFETY CABLE ASSEMBLY                                                 | EACH | 4        |
| COMBINATION LIGHTING CONTROLLER                                                 | EACH | 1        |

NOTES:

- 1.0 THE IDOT COMBINATION LIGHTING CIRCUITS SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
- 2.0 LUMINAIRES ARE POWERED FROM IDOT TRAFFIC CONTROLLER. SEE DETAIL BE-240.
- 3.0 THE COMBINATION LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
- 4.0 SEE TRAFFIC PLANS FOR LOCATION OF COMBINATION POLES, HANDHOLES AND CONDUIT.
- 5.0 CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBINATION POLES.

LEGEND:

- PROPOSED LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H , 120V, 45 FT. M.H., 15 FT. M.A., ON STEEL COMBINATION MAST ARM AND POLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)
- PROPOSED ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10
- PROPOSED COMBINATION LIGHTING CONTROLLER (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)

LIGHTING LEGEND



PROPOSED SINGLE ARM LIGHTING UNIT 47.5' M.H., 15' M.A., WITH PROPOSED LED LUMINAIRE, 240V OUTPUT DESIGNATION H



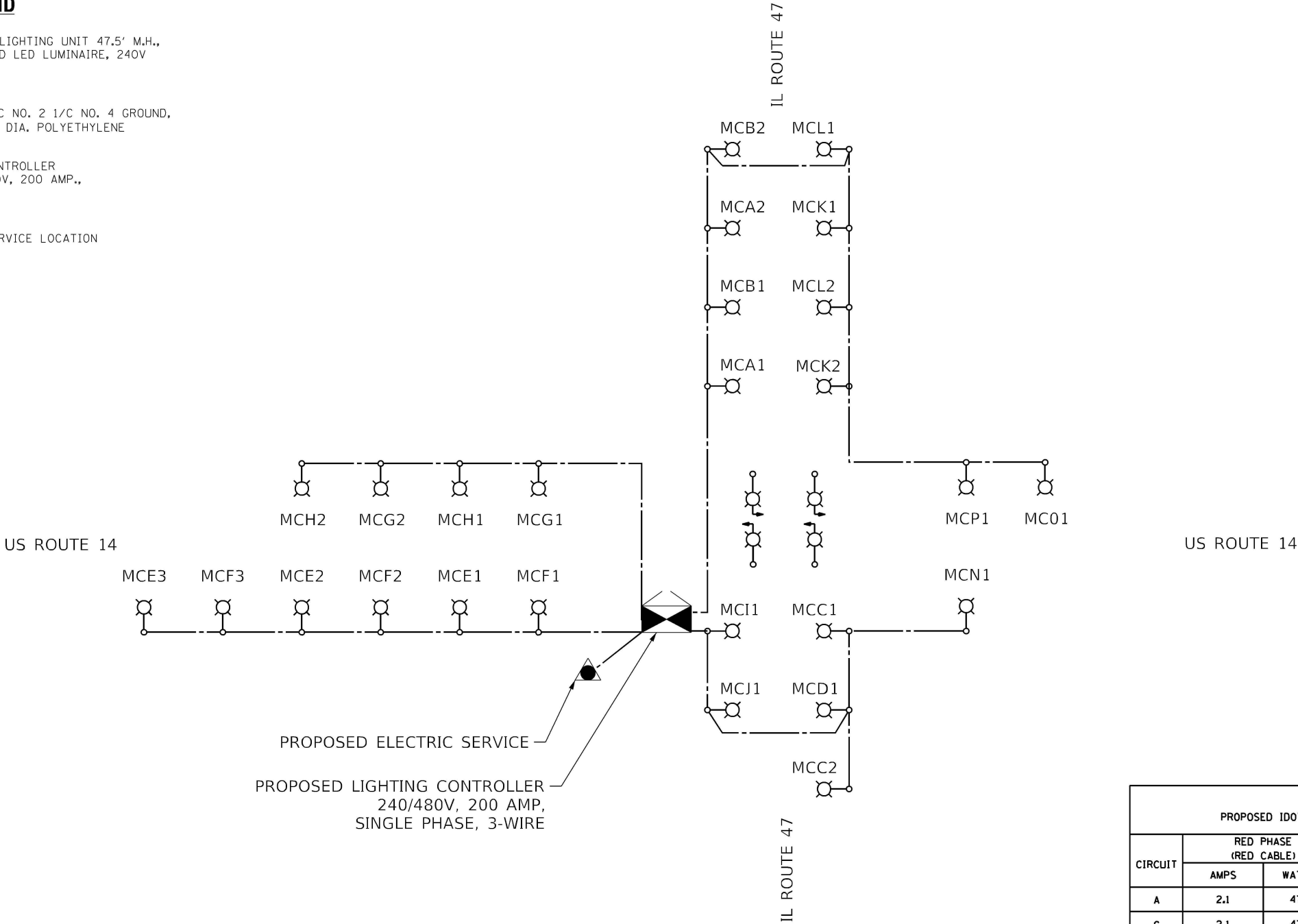
UNIT DUCT, 600V, 4-1/C NO. 2 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE



PROPOSED LIGHTING CONTROLLER BASE MOUNTED 240/480V, 200 AMP., SINGLE PHASE, 3 WIRE



PROPOSED ELECTRIC SERVICE LOCATION



| LOAD TABLE<br>PROPOSED IDOT LIGHTING CONTROLLER "MC" |                          |       |         |                              |       |
|------------------------------------------------------|--------------------------|-------|---------|------------------------------|-------|
| CIRCUIT                                              | RED PHASE<br>(RED CABLE) |       | CIRCUIT | BLACK PHASE<br>(BLACK CABLE) |       |
|                                                      | AMPS                     | WATTS |         | AMPS                         | WATTS |
| A                                                    | 2.1                      | 472   | B       | 2.1                          | 474   |
| C                                                    | 2.1                      | 472   | D       | 1.1                          | 248   |
| E                                                    | 3.2                      | 720   | F       | 3.2                          | 720   |
| G                                                    | 2.1                      | 472   | H       | 2.1                          | 474   |
| I                                                    | 1.1                      | 248   | J       | 1.1                          | 248   |
| K                                                    | 2.1                      | 472   | L       | 2.1                          | 474   |
| M                                                    | 0                        | 0     | N       | 1.1                          | 248   |
| O                                                    | 1.1                      | 248   | P       | 1.1                          | 248   |
| TOTAL                                                | 13.8                     | 3104  | TOTAL   | 13.9                         | 3134  |

TOTAL AMPS:

MODEL: Default  
FILE NAME: p:\bacon\pnp\benley.com\AECOM\_DS21\_NA\_2020\Documents\60627011-IL-47\900-CAD\03\_SHEETS\Lighting\0360X17xhtlight-03.dgn

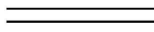


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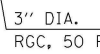
|                               |                   |           |
|-------------------------------|-------------------|-----------|
| USER NAME = MTadden           | DESIGNED - MK     | REVISED - |
| DRAWN - MT                    | REVISED -         |           |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - MR      | REVISED - |
| PLOT DATE = 2/11/2025         | DATE - 02/06/2025 | REVISED - |

| F.A.P. RTE. | SECTION             | COUNTY             | TOTAL SHEETS     | SHEET NO. |
|-------------|---------------------|--------------------|------------------|-----------|
| 326         | 2024-1052-N,C,SW,FL | MCHENRY            | 941              | 716       |
|             |                     | CONTRACT NO. 62X94 |                  |           |
|             |                     | ILLINOIS           | FED. AID PROJECT |           |

CITY OF WOODSTOCK LIGHTING LEGEND

|                                                                                   |                                                                                                                                                          |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | PROPOSED DECORATIVE LIGHTING UNIT,<br>40’ M.H., 6’ M.A., WITH PROPOSED PENDANT LED<br>LUMINAIRE, 240V, WITH TWIN MID-MOUNT ACORN LED<br>LUMINAIRES, 240V |
|  | PROPOSED SINGLE ARM LIGHTING UNIT,<br>40’ M.H., 15’ M.A., WITH PROPOSED LUMINAIRE,<br>240V, OUTPUT DESIGNATION G (BY OTHERS)                             |
|  | PROPOSED JUNCTION BOX<br>SIZE AND TYPE PER PLANS                                                                                                         |
|  | UNDERGROUND RIGID GALVANIZED STEEL CONDUIT (RGC)<br>SIZE AS INDICATED                                                                                    |
|  | UNIT DUCT, AS SPECIFIED IN PLANS                                                                                                                         |
|  | PROPOSED LIGHTING CONTROLLER<br>BASE MOUNTED 120/240V, 200 AMP.,<br>SINGLE PHASE, 3 WIRE                                                                 |
|  | PROPOSED ELECTRIC SERVICE LOCATION                                                                                                                       |
|  | GROUND ROD, 5/8” X 10 FT                                                                                                                                 |

CALL-OUT SAMPLES

| DEFINITION                                                                                                                                                 | EXAMPLE                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>CKT. NO.<br>LOCATION<br>SET BACK AS INDICATED<br>IN GENERAL NOTES   | <br>MZA1<br>STA. 591+85<br>SET BACK 7 FT                                                    |
| <br>HC A 1<br>POLE NUMBER<br>CIRCUIT NUMBER<br>LIGHTING CONTROL CABINET |                                                                                                                                                                                |
| <br>CONDUIT SIZE<br>TYPE, LENGTH                                        | <br>3” DIA.<br>RGC, 50 FT                                                                   |
| <br>CIRCUITS<br>CONDUCTORS RACEWAY                                      | <br>CKT. MZAB<br>3-1/C#8, 1/C#10 GND,<br>1” DIA. UNIT DUCT                                  |
| <br>CONTROLLER DESIGNATION<br>LOCATION<br>DESCRIPTION                   | <br>PROPOSED LIGHTING CONTROLLER “MZ”<br>STA. 590+95, 51 FT LT<br>1-PHASE, 240/480V, 3 WIRE |

ABBREVIATIONS

| ABBREVIATION | DESCRIPTION                  |
|--------------|------------------------------|
| AC           | ALTERNATING CURRENT          |
| A/C          | AERIAL CABLE                 |
| AFG          | ABOVE FINISHED GRADE         |
| AMP          | AMPERE                       |
| CB           | CIRCUIT BREAKER              |
| CKT          | CIRCUIT                      |
| CNC          | COILABLE NONMETALLIC CONDUIT |
| CP           | CONTROL PANEL                |
| DIA.         | DIAMETER                     |
| E            | EXISTING UNIT TO REMAIN      |
| ECA          | ELECTRIC CABLE ASSEMBLY      |
| FT           | FEET OR FOOT                 |
| FU           | FUSE                         |
| GND          | GROUND                       |
| HID          | HIGH INTENSITY DISCHARGE     |
| HMLT         | HIGH MAST LIGHT TOWER        |
| HPS          | HIGH PRESSURE SODIUM         |
| JB           | JUNCTION BOX                 |
| KVA          | KILOVOLT-AMPERE              |
| KW           | KILOWATTS                    |
| M.A.         | MAST ARM                     |
| M.H.         | MOUNTING HEIGHT              |
| NO.          | NUMBER                       |
| P            | POLE                         |
| RGC          | RIGID GALVANIZED CONDUIT     |
| RGS          | RIGID GALVANIZED STEEL       |
| STA          | STATION                      |
| T            | TEMPORARY LIGHTING UNIT      |
| TB           | TRANSFORMER BASE             |
| TMP          | TEMPORARY                    |
| UD           | UNIT DUCT                    |
| V            | VOLT                         |
| W            | WATT                         |
| WP           | WOOD POLE                    |
| XFMR         | TRANSFORMER                  |

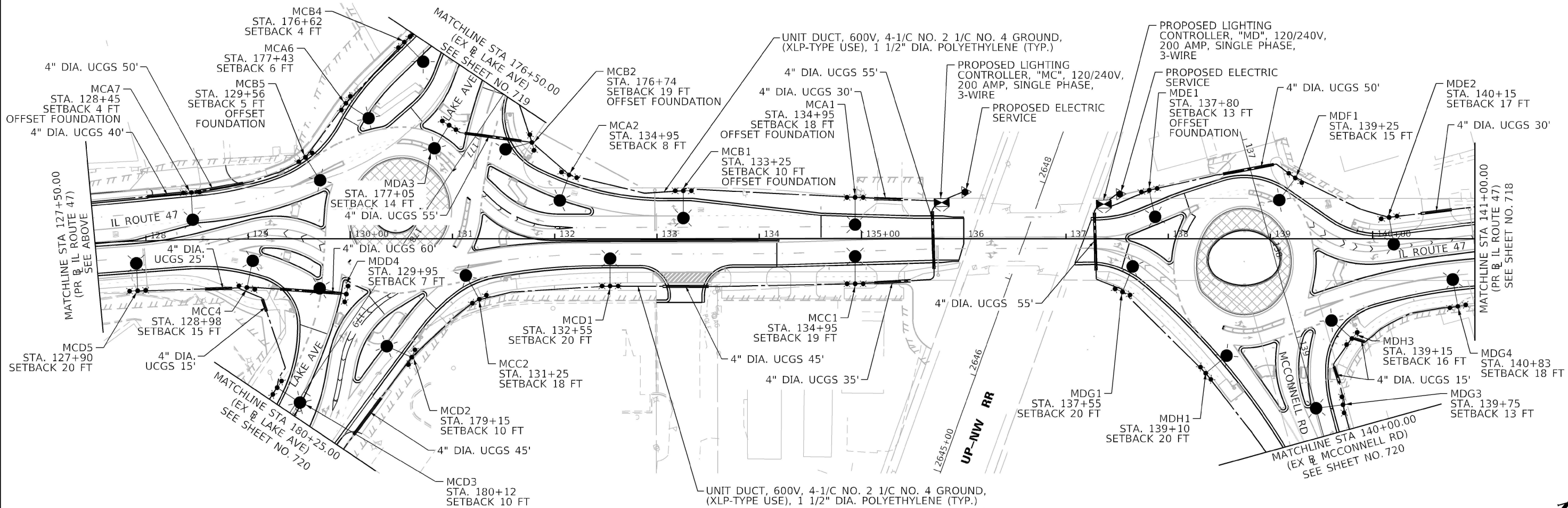
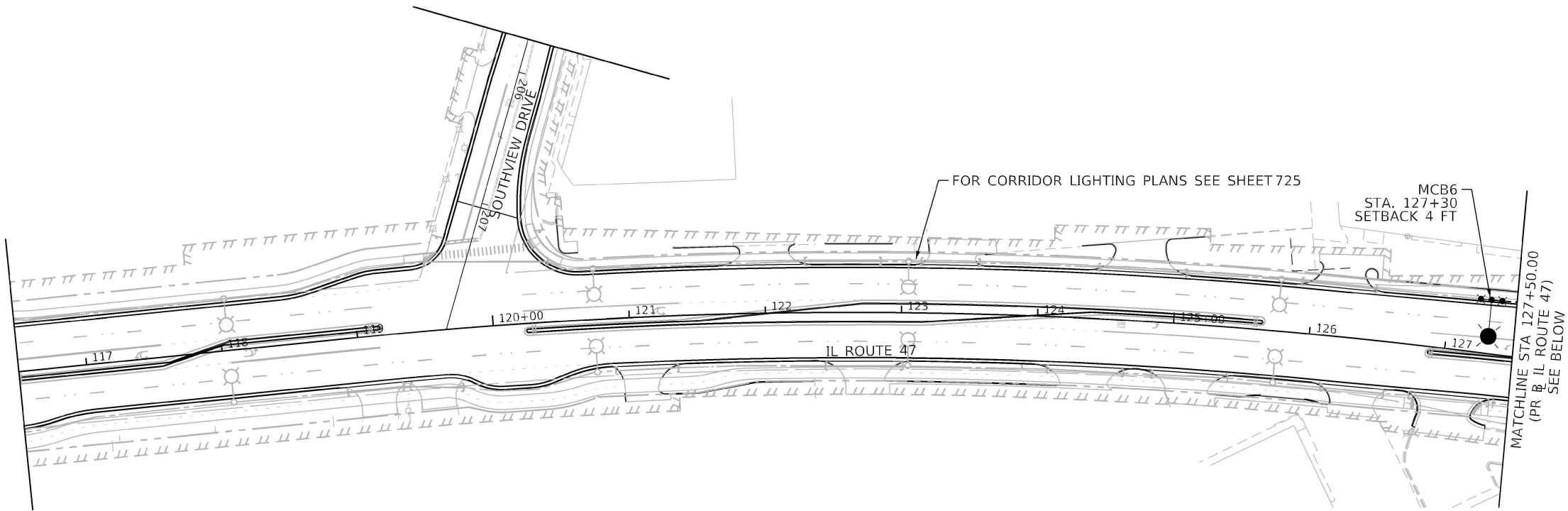
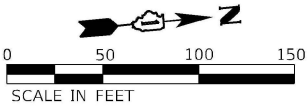
GENERAL NOTES:

1. LIGHT POLE SET BACKS ARE MEASURED FROM FACE OF CURB TO CENTER OF POLE.
2. OFFSETS FOR TEMPORARY LIGHT POLES ARE MEASURED FROM ROADWAY CENTERLINE TO CENTER OF POLE.
3. WHEREVER TEMPORARY AERIAL CABLE IS REQUIRED TO CROSS AN EXISTING OR PROPOSED ROADWAY, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 20 FEET OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIMES.

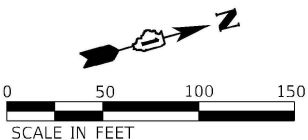
CITY OF WOODSTOCK LIGHTING SCHEDULE OF QUANTITIES

| Item                                                                                  | Unit  | Quantity |
|---------------------------------------------------------------------------------------|-------|----------|
| ELECTRIC SERVICE INSTALLATION                                                         | EACH  | 3        |
| ELECTRIC UTILITY SERVICE CONNECTION                                                   | L SUM | 0.7      |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.                                        | FOOT  | 1130     |
| UNIT DUCT, 600V, 4-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT  | 6513     |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM                             | FOOT  | 795      |
| LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP                                    | EACH  | 3        |
| LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'                               | EACH  | 49       |
| BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE                             | EACH  | 49       |
| ORNAMENTAL LIGHT UNIT, COMPLETE                                                       | EACH  | 49       |
| LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET                                           | FOOT  | 56       |
| TEMPORARY LIGHTING SYSTEM                                                             | EACH  | 1        |
| LUMINAIRE SAFETY CABLE ASSEMBLY                                                       | EACH  | 49       |





NOTE:  
CONTRACTOR SHALL INSTALL TEMPORARY LIGHTING AT THE MCCONNELL RD. ROUNDABOUT IN ADVANCE OF MOT STAGE 1B WHEN THE ROUNDABOUT WILL BE OPEN TO TRAFFIC. INSTALLATIONS WILL BE INTENDED TO ILLUMINATE THE APPROACHES AND CIRCULATING ROADWAY OF PROJECT ROUNDABOUTS, EITHER IN AN INTERIM CONDITION OR PRIOR TO THE ACTIVATION OF PERMANENT LIGHTING, IN A CONFIGURATION THAT MEETS WITH THE APPROVAL OF THE ENGINEER. THIS WORK SHALL BE PAID FOR UNDER THE PAY ITEM "TEMPORARY LIGHTING SYSTEM".



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CADD: 03 SHEETS\lighting\0160X17-ah-light-04.dwg

**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = MTodden          | DESIGNED - MK     | REVISED - |
|                              | DRAWN - MT        | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - MR      | REVISED - |
| PLOT DATE = 3/6/2025         | DATE - 03/07/2025 | REVISED - |

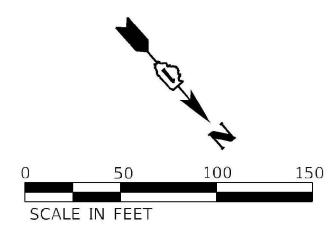
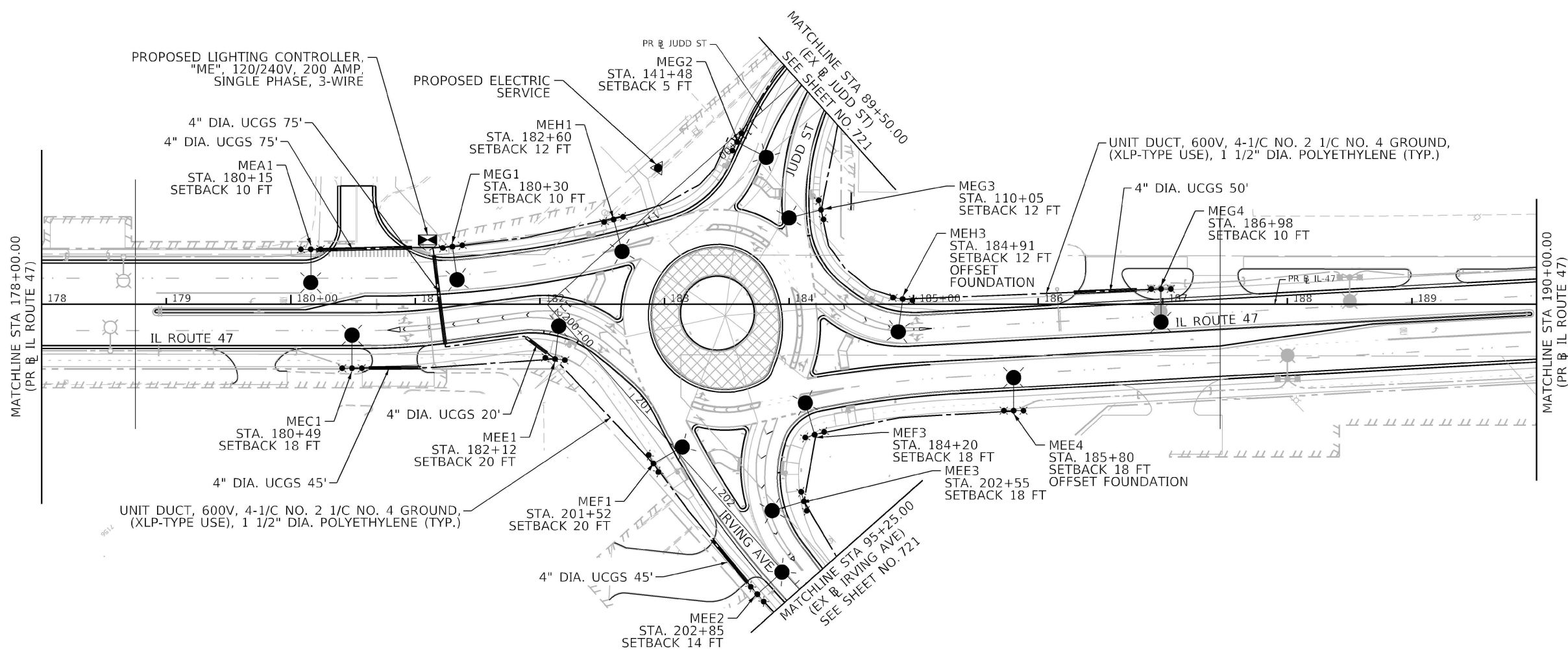
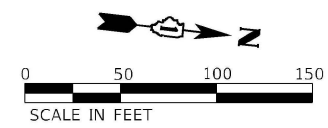
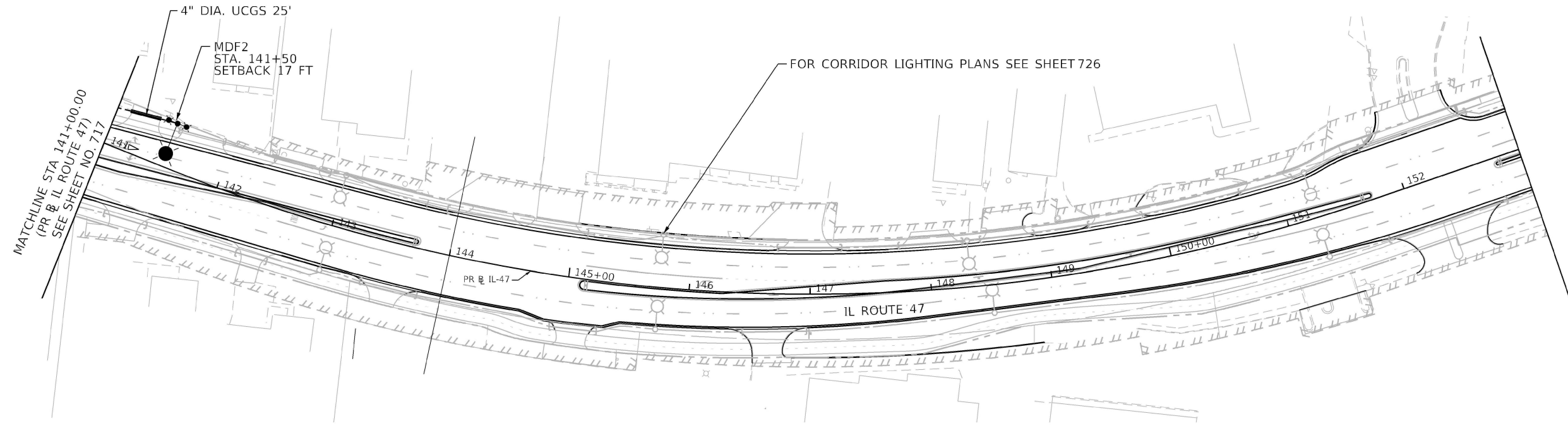
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-47 ROUNDABOUT - PROPOSED LIGHTING PLAN  
CITY OF WOODSTOCK LIGHTING

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION             | COUNTY  | TOTAL SHEETS | SHEET NO.          |
|---------------------------|---------------------|---------|--------------|--------------------|
| 326                       | 2024-1052-N,C,SW,FL | MCHENRY | 941          | 717                |
|                           |                     |         |              | CONTRACT NO. 62X94 |
| ILLINOIS FED. AID PROJECT |                     |         |              |                    |





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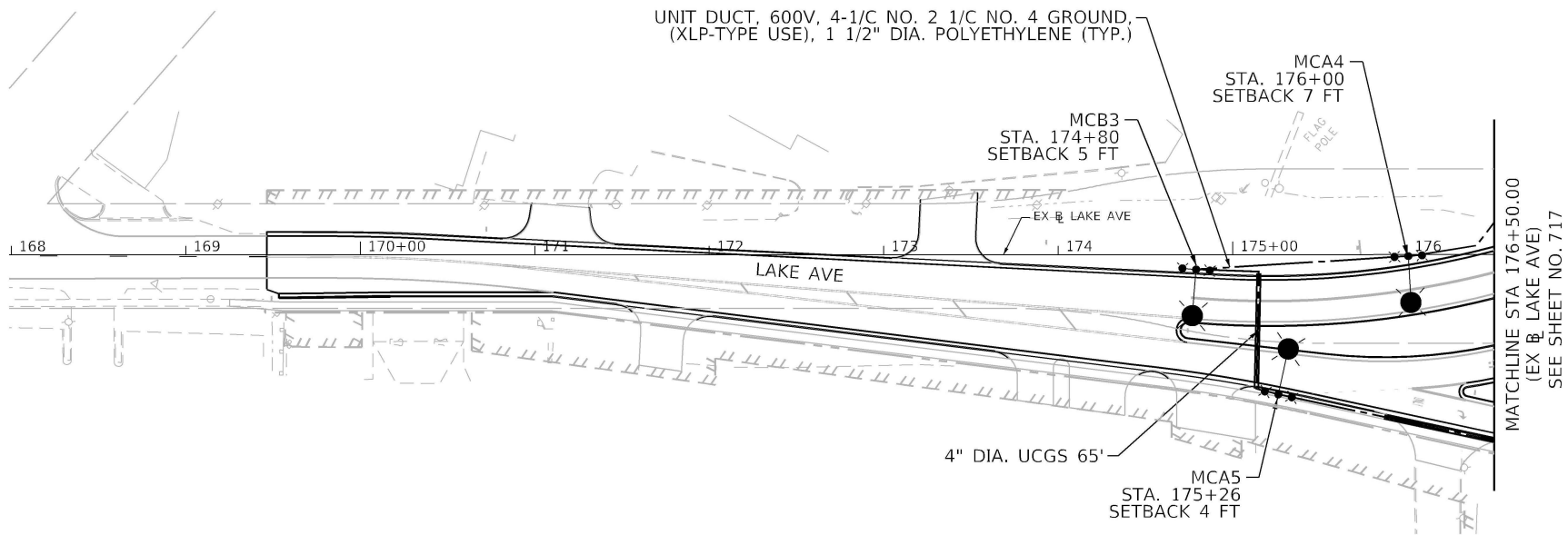
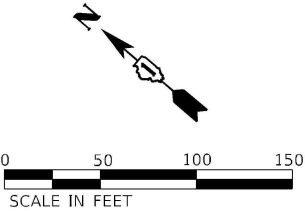
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|                               | DRAWN - MT        | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - MR      | REVISED - |
| PLOT DATE = 2/5/2025          | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-47 ROUNDABOUT - PROPOSED LIGHTING PLAN  
CITY OF WOODSTOCK LIGHTING

SCALE: 1" = 50'    SHEET    OF    SHEETS    STA.    TO STA.

| F.A.P. RTE.               | SECTION             | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL | MCHENRY | 941          | 718       |
| CONTRACT NO. 62X94        |                     |         |              |           |
| ILLINOIS FED. AID PROJECT |                     |         |              |           |



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**TranSmart**

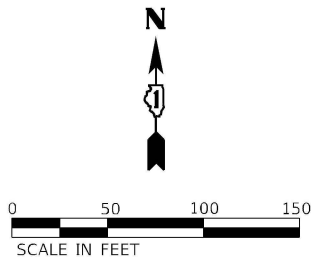
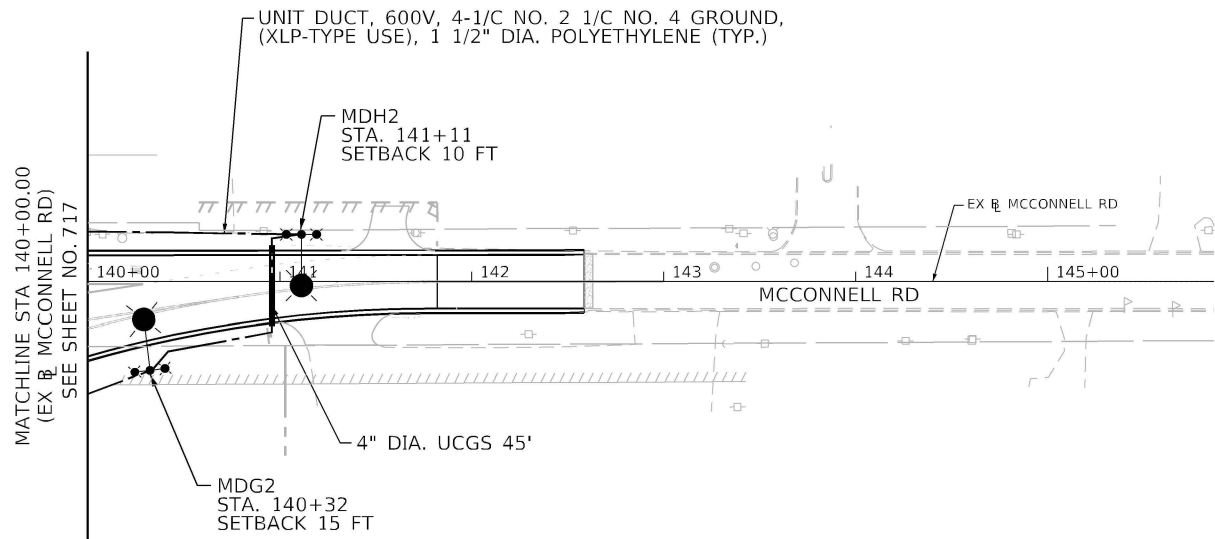
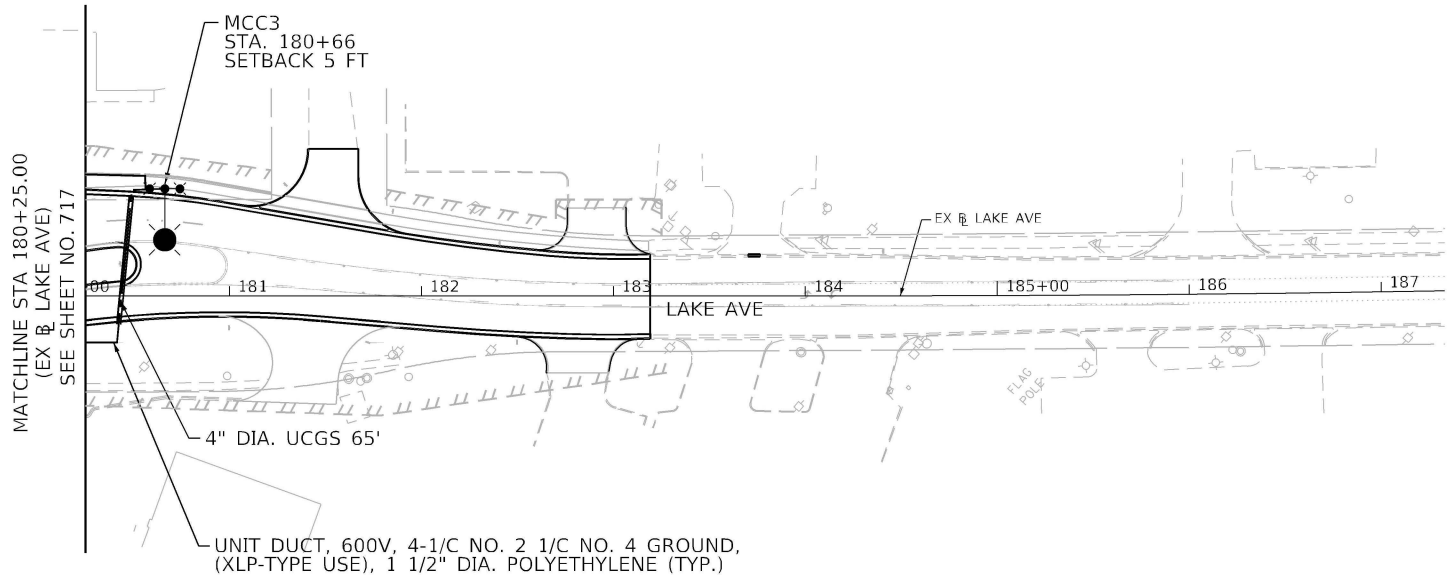
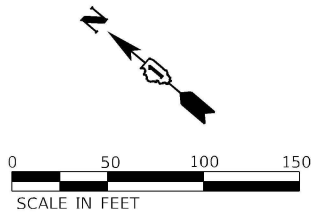
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

|                               |                   |           |
|-------------------------------|-------------------|-----------|
| USER NAME = MTadden           | DESIGNED - MK     | REVISED - |
|                               | DRAWN - MT        | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - MR      | REVISED - |
| PLOT DATE = 2/5/2025          | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| IL-47 ROUNDABOUT - PROPOSED LIGHTING PLAN |         |    |        |
|-------------------------------------------|---------|----|--------|
| CITY OF WOODSTOCK LIGHTING                |         |    |        |
| SCALE: 1" = 50'                           | SHEET   | OF | SHEETS |
| STA.                                      | TO STA. |    |        |

| F.A.P. RTE.               | SECTION             | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL | MCHENRY | 941          | 719       |
| CONTRACT NO. 62X94        |                     |         |              |           |
| ILLINOIS FED. AID PROJECT |                     |         |              |           |



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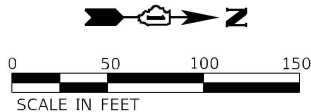
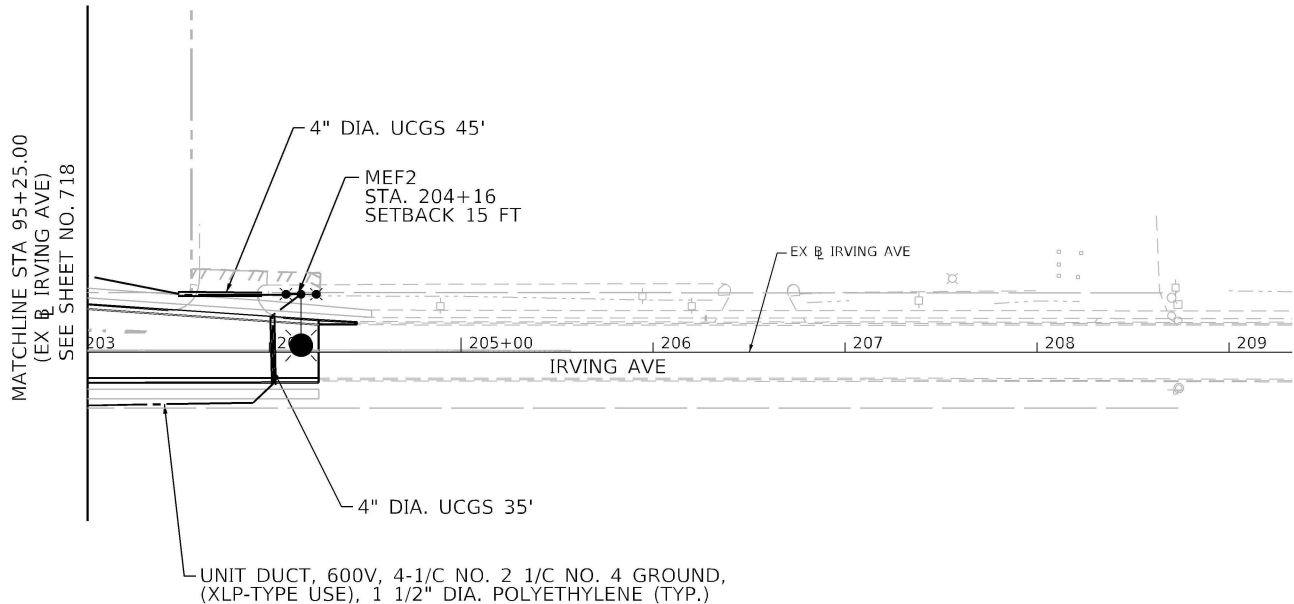
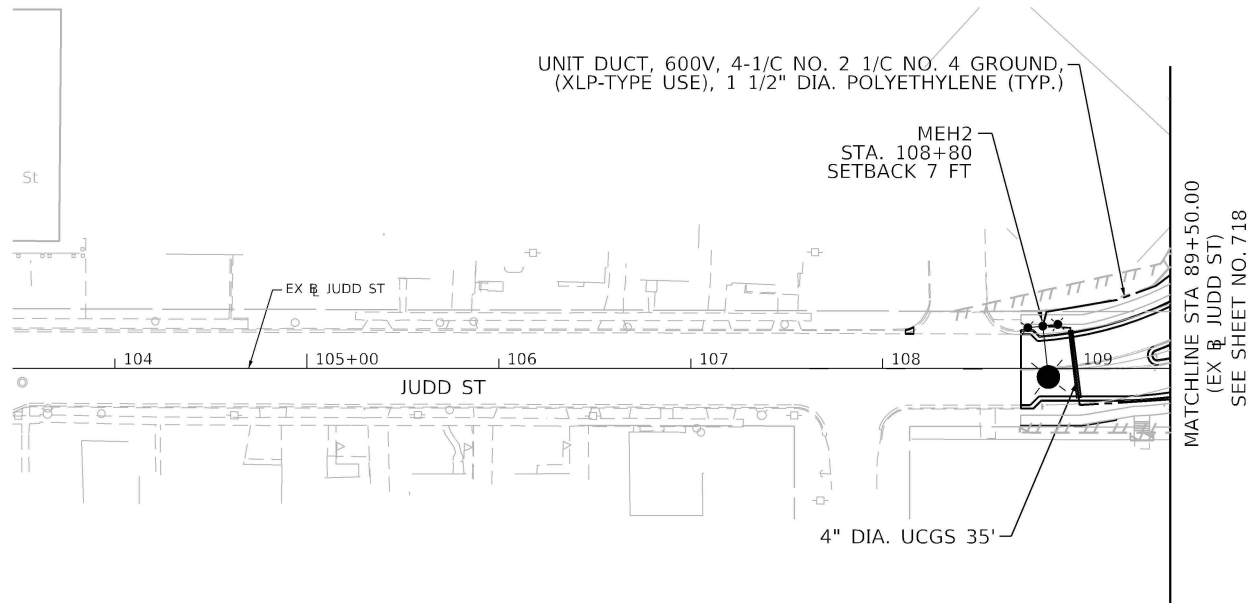
**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

|                               |                   |           |
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| USER NAME = MTadden           | DESIGNED - MK     | REVISED - |
|                               | DRAWN - MT        | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - MR      | REVISED - |
| PLOT DATE = 2/5/2025          | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

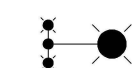
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| IL-47 ROUNDABOUT - PROPOSED LIGHTING PLAN |       |    |        |
| CITY OF WOODSTOCK LIGHTING                |       |    |        |
| SCALE: 1" = 50'                           | SHEET | OF | SHEETS |
| STA.                                      |       | TO | STA.   |

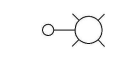
| F.A.P. RTE.               | SECTION             | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL | MCHENRY | 941          | 720       |
| CONTRACT NO. 62X94        |                     |         |              |           |
| ILLINOIS FED. AID PROJECT |                     |         |              |           |

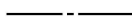


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LIGHTING LEGEND

- 

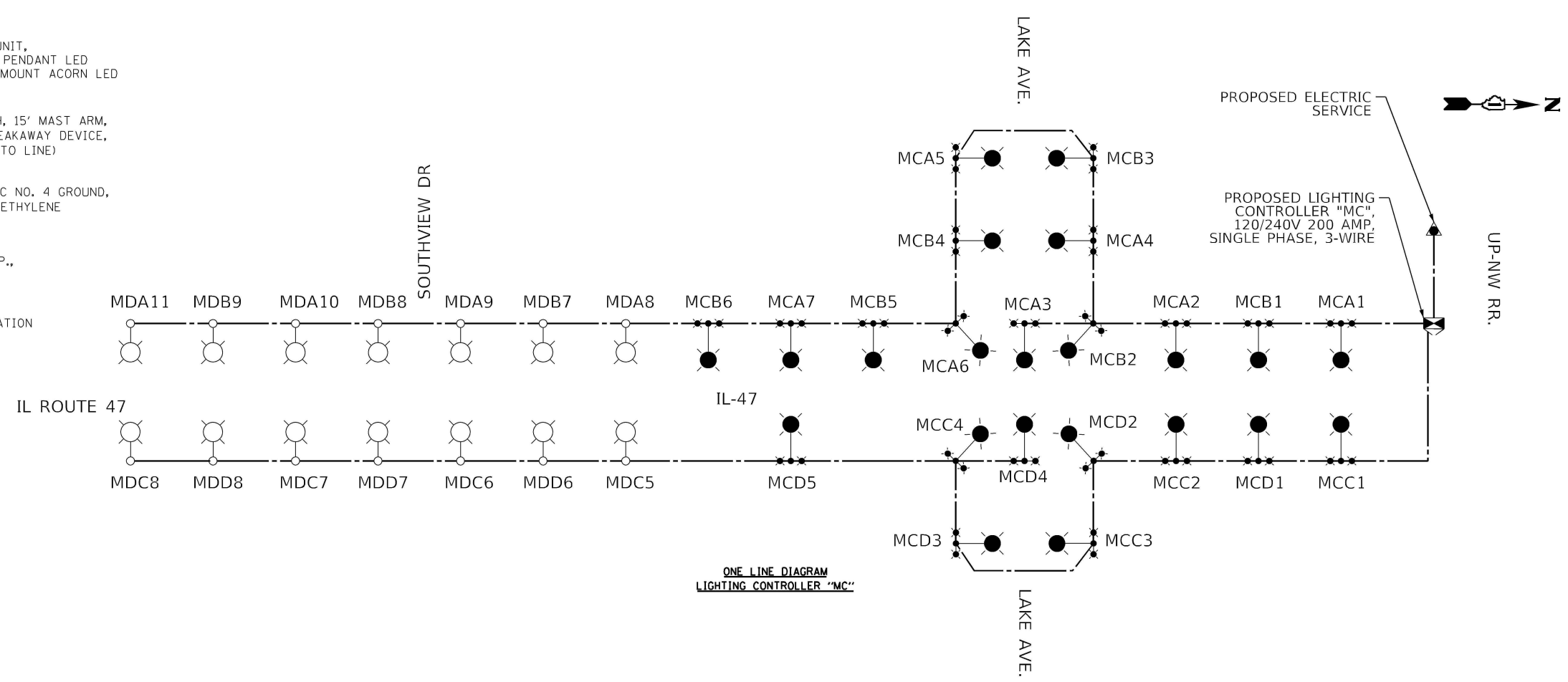
PROPOSED DECORATIVE LIGHTING UNIT,  
40' M.H., 6' M.A., WITH PROPOSED PENDANT LED  
LUMINAIRE, 240V, WITH TWIN MID-MOUNT ACORN LED  
LUMINAIRES, 240V
- 

PROPOSED LIGHTING UNIT 47.5' MH, 15' MAST ARM,  
LED ROADWAY LUMINAIRE WITH BREAKAWAY DEVICE,  
METAL FOUNDATION (240V - LINE TO LINE)
- 

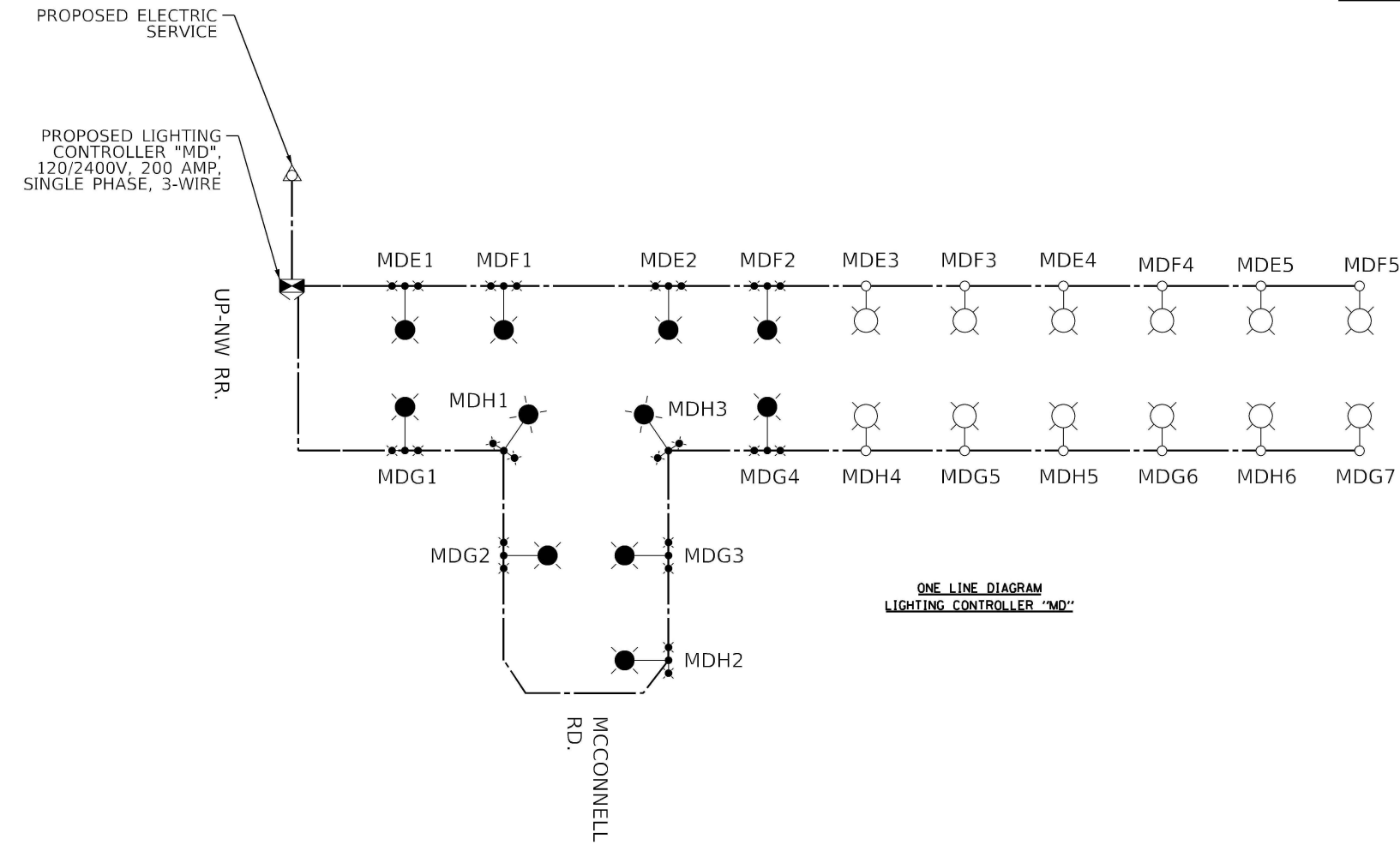
UNIT DUCT, 600V, 4-1/C NO. 2 1/C NO. 4 GROUND,  
(XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE
- 

PROPOSED LIGHTING CONTROLLER  
BASE MOUNTED 120/240V, 200 AMP.,  
SINGLE PHASE, 3 WIRE
- 

PROPOSED ELECTRIC SERVICE LOCATION



ONE LINE DIAGRAM  
LIGHTING CONTROLLER "MC"



ONE LINE DIAGRAM  
LIGHTING CONTROLLER "MD"

| LOAD TABLE<br>PROPOSED WOODSTOCK LIGHTING CONTROLLER "MC" |                          |       |         |                              |       |
|-----------------------------------------------------------|--------------------------|-------|---------|------------------------------|-------|
| CIRCUIT                                                   | RED PHASE<br>(RED CABLE) |       | CIRCUIT | BLACK PHASE<br>(BLACK CABLE) |       |
|                                                           | AMPS                     | WATTS |         | AMPS                         | WATTS |
| A                                                         | 9.9                      | 2140  | B       | 8.1                          | 1761  |
| C                                                         | 7                        | 1516  | D       | 7.2                          | 1553  |
| E                                                         |                          |       | F       |                              |       |
| G                                                         |                          |       | H       |                              |       |
| I                                                         |                          |       | J       |                              |       |
| K                                                         |                          |       | L       |                              |       |
| M                                                         |                          |       | N       |                              |       |
| O                                                         |                          |       | P       |                              |       |
| TOTAL                                                     | 16.9                     | 3656  | TOTAL   | 15.3                         | 3314  |

TOTAL AMPS:

| LOAD TABLE<br>PROPOSED WOODSTOCK LIGHTING CONTROLLER "MD" |                          |       |         |                              |       |
|-----------------------------------------------------------|--------------------------|-------|---------|------------------------------|-------|
| CIRCUIT                                                   | RED PHASE<br>(RED CABLE) |       | CIRCUIT | BLACK PHASE<br>(BLACK CABLE) |       |
|                                                           | AMPS                     | WATTS |         | AMPS                         | WATTS |
| A                                                         |                          |       | B       |                              |       |
| C                                                         |                          |       | D       |                              |       |
| E                                                         | 4.3                      | 929   | F       | 4.3                          | 929   |
| G                                                         | 6.2                      | 1345  | H       | 5.3                          | 1137  |
| I                                                         |                          |       | J       |                              |       |
| K                                                         |                          |       | L       |                              |       |
| M                                                         |                          |       | N       |                              |       |
| O                                                         |                          |       | P       |                              |       |
| TOTAL                                                     | 10.5                     | 2274  | TOTAL   | 9.6                          | 2066  |

TOTAL AMPS:

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FILE NAME: p:\bacon\pawu\benley.com\AECOM\_DS21\_NA\_2020\Documents\60637011-IL-47\900-CAD\03\_SHEETS\Lighting\0160X17xhtlight-10.dgn



|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = MTadden          | DESIGNED - MK     | REVISED - |
|                              | DRAWN - MT        | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - MR      | REVISED - |
| PLOT DATE = 2/5/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-47 ROUNDABOUT - LIGHTING ONE-LINE DIAGRAM  
CITY OF WOODSTOCK LIGHTING

|                           |                     |         |              |           |
|---------------------------|---------------------|---------|--------------|-----------|
| F.A.P. RTE.               | SECTION             | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 326                       | 2024-1052-N,C,SW,FL | MCHENRY | 941          | 722       |
| CONTRACT NO. 62X94        |                     |         |              |           |
| ILLINOIS FED. AID PROJECT |                     |         |              |           |

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

PROPOSED DECORATIVE LIGHTING UNIT,  
40' M.H., 6' M.A., WITH PROPOSED PENDANT LED  
LUMINAIRE, 240V, WITH TWIN MID-MOUNT ACORN LED  
LUMINAIRES, 240V

PROPOSED LIGHTING UNIT 47.5' MH, 15' MAST ARM,  
LED ROADWAY LUMINAIRE WITH BREAKAWAY DEVICE,  
METAL FOUNDATION (240V - LINE TO LINE)

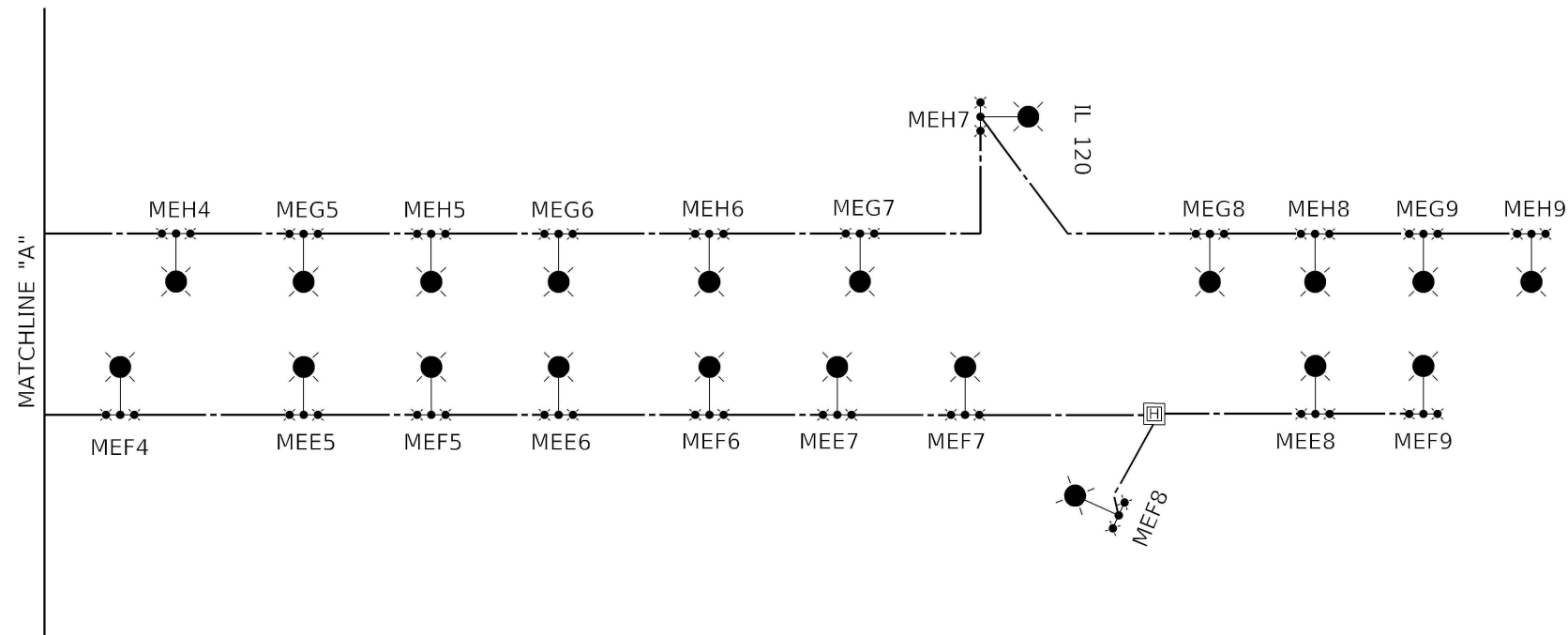
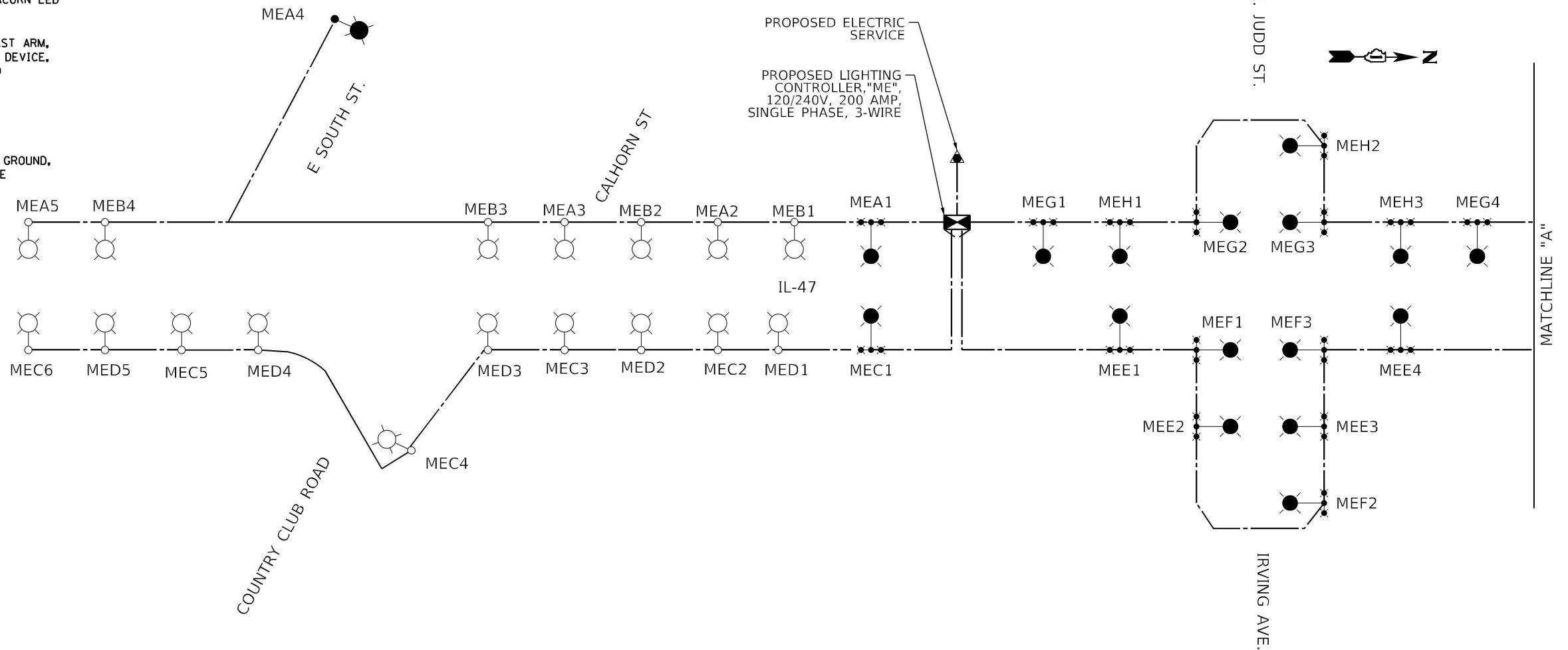
EXISTING LIGHTING UNIT TO REMAIN

UNIT DUCT, 600V, 4-1/C NO. 2 1/C NO. 4 GROUND,  
(XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE

EXISTING HANDHOLE

PROPOSED LIGHTING CONTROLLER  
BASE MOUNTED 120/240V, 200 AMP.,  
SINGLE PHASE, 3 WIRE

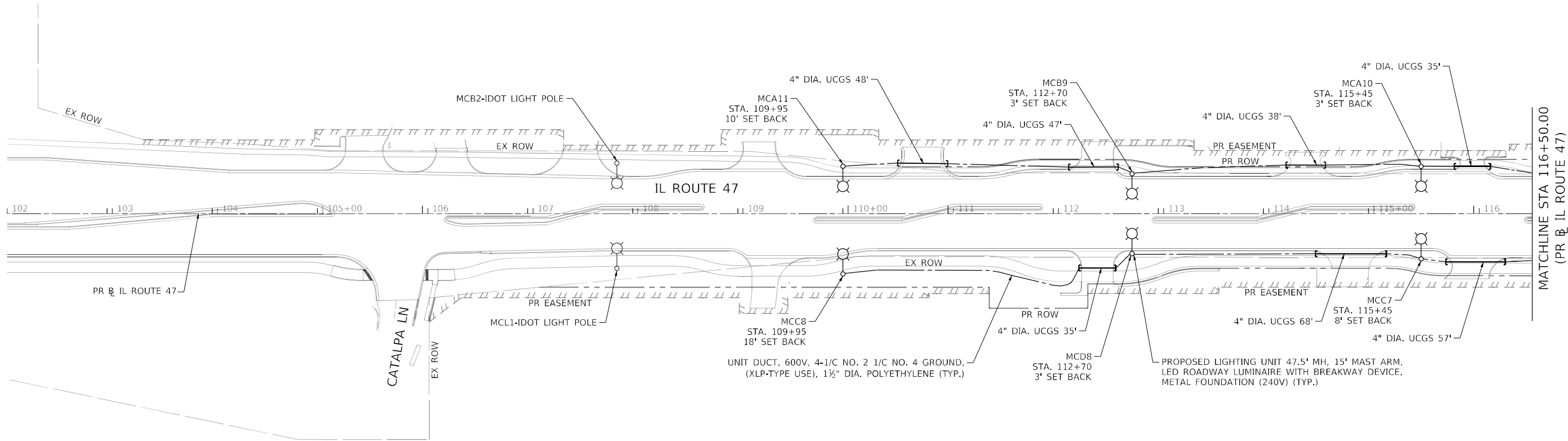
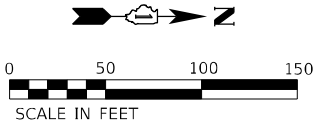
PROPOSED ELECTRIC SERVICE LOCATION



| LOAD TABLE<br>PROPOSED WOODSTOCK LIGHTING CONTROLLER "ME" |                          |       |         |                              |       |
|-----------------------------------------------------------|--------------------------|-------|---------|------------------------------|-------|
| CIRCUIT                                                   | RED PHASE<br>(RED CABLE) |       | CIRCUIT | BLACK PHASE<br>(BLACK CABLE) |       |
|                                                           | AMPS                     | WATTS |         | AMPS                         | WATTS |
| A                                                         | 4.1                      | 892   | B       | 3.2                          | 684   |
| C                                                         | 4.9                      | 1063  | D       | 3.9                          | 855   |
| E                                                         | 7.7                      | 1664  | F       | 8.6                          | 1872  |
| G                                                         | 8.6                      | 1872  | H       | 8.6                          | 1872  |
| I                                                         |                          |       | J       |                              |       |
| K                                                         |                          |       | L       |                              |       |
| M                                                         |                          |       | N       |                              |       |
| O                                                         |                          |       | P       |                              |       |
| TOTAL                                                     | 25.3                     | 5491  | TOTAL   | 24.3                         | 5283  |

TOTAL AMPS:





**GENERAL LIGHTING NOTES:**

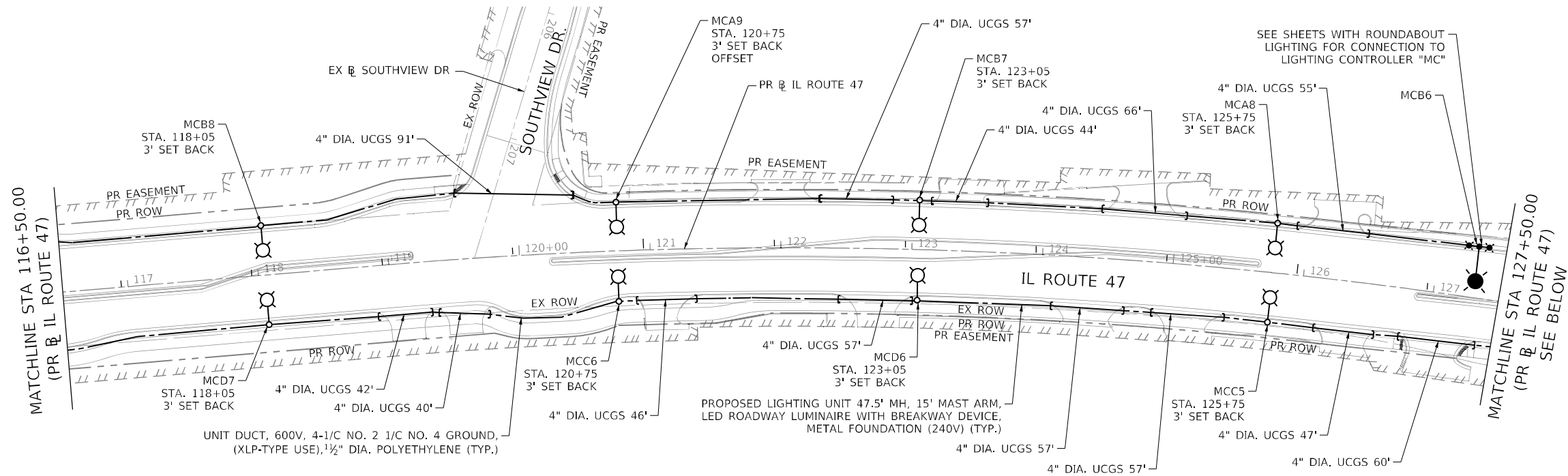
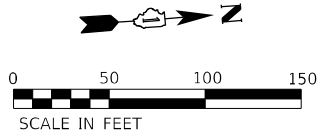
- IL ROUTE 47 FROM NORTH OF CATALPA LANE TO NORTH OF IL ROUTE 120. THE PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE CITY OF WOODSTOCK. THE COMBINATION LIGHTING SHALL BE OWNED AND MAINTAINED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION.
- THE QUANTITIES OF RACEWAYS WHEREVER INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND UTILITIES AND TREES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING WORK.
- TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND CITY OF WOODSTOCK CODES.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
- GROUND RODS SHALL BE INSTALLED AT EACH LIGHTING UNIT.
- THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.

**LEGEND:**

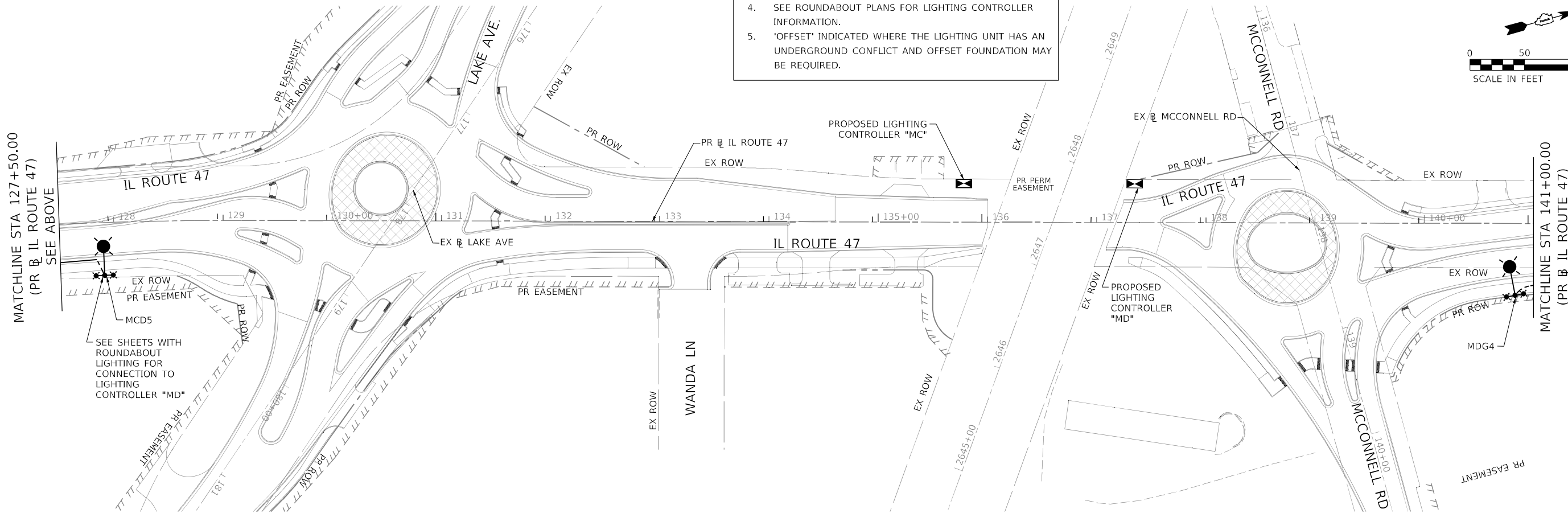
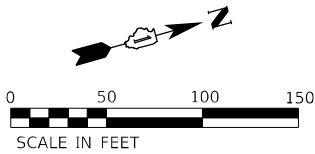
- PROPOSED LIGHTING UNIT 47.5' MH, 15' MAST ARM, LED ROADWAY LUMINAIRE WITH BREAKWAY DEVICE, METAL FOUNDATION (240V - LINE TO LINE)
- UNDERGROUND CONDUIT, GALVANIZED STEEL
- UNIT DUCT, 600V, 4-1/C NO. 2 1/C NO. 4 GROUND, (XLP-TYPE USE), 1½" DIA. POLYETHYLENE
- ELECTRIC CABLE IN CONDUIT, 600 3-1/C NO. 1/0
- COMBINATION LIGHTING 45' MH, 15' MAST ARM, LED ROADWAY LUMINAIRE (120V - LINE TO NEUTRAL)
- PROPOSED DECORATIVE LIGHTING UNIT 40' MH, 6' MAST ARM WITH PROPOSED PENDENT LED LUMINAIRE WITH TWIN MID-MOUNT ACORN LED LUMINAIRES (240V - LINE TO LINE)

HRG PROJECT NO. 101-000000-000000  
HRG PROJ. CONTACT: 101-000000-000000  
FILE NAME: 101-000000-000000  
CITY: WOODSTOCK, ILLINOIS  
PEN TABLE: 101-000000-000000

|                                                                                                                                                                                                     |                              |  |                   |           |                                                                 |                                                               |                 |              |                                               |                     |         |              |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|-------------------|-----------|-----------------------------------------------------------------|---------------------------------------------------------------|-----------------|--------------|-----------------------------------------------|---------------------|---------|--------------|-----------|
|  <b>AMES Engineering, Inc.</b><br>CONSULTING ENGINEERS<br>6330 Belmont Road, Suite 4B<br>Downers Grove, IL 60516 | USER NAME = Srahman          |  | DESIGNED - BL     | REVISED - | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>PROPOSED WOODSTOCK LIGHTING PLAN</b><br><b>IL ROUTE 47</b> |                 |              | F.A.P. RTE.                                   | SECTION NO.         | COUNTY  | TOTAL SHEETS | SHEET NO. |
|                                                                                                                                                                                                     | DRAWN - SR/MD                |  | REVIS             | REVISED - |                                                                 |                                                               |                 |              | 326                                           | 2024-1052-N,C,SW,FL | McHENRY | 941          | 724       |
|                                                                                                                                                                                                     | PLOT SCALE = 100.0000' / in. |  | CHECKED - MH      | REVISED - |                                                                 | CONTRACT NO. 62X94                                            |                 |              |                                               |                     |         |              |           |
|                                                                                                                                                                                                     | PLOT DATE = 2/7/2025         |  | DATE - 12-31-2024 | REVISED - |                                                                 | SCALE: 1"=50'                                                 | SHEET OF SHEETS | STA. TO STA. | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                     |         |              |           |



- NOTES:
1. SEE GENERAL NOTES AND LEGEND ON SHEET 724.
  2. SET BACK IS FROM FACE OF CURB TO CENTER OF POLE.
  3. UCGS STANDS FOR UNDERGROUND CONDUIT GALVANIZED STEEL.
  4. SEE ROUNDABOUT PLANS FOR LIGHTING CONTROLLER INFORMATION.
  5. 'OFFSET' INDICATED WHERE THE LIGHTING UNIT HAS AN UNDERGROUND CONFLICT AND OFFSET FOUNDATION MAY BE REQUIRED.



HRG PROJECT NO. 1902000000  
HRG PROJ. CONTACT: 1902000000  
FILE NAME: 1902000000  
CLOUTIER ENGINEERING  
PEN TABLE: 1902000000

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

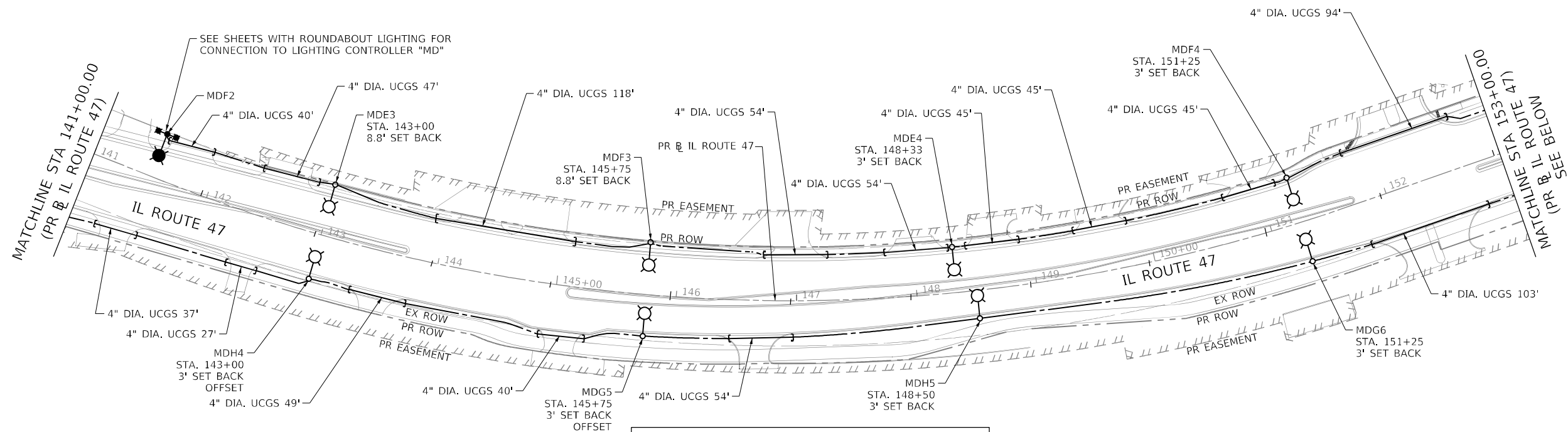
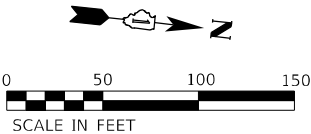
|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = Srahman          | DESIGNED - BL     | REVISED - |
|                              | DRAWN - SR/MD     | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - MH      | REVISED - |
| PLOT DATE = 2/7/2025         | DATE - 12-31-2024 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

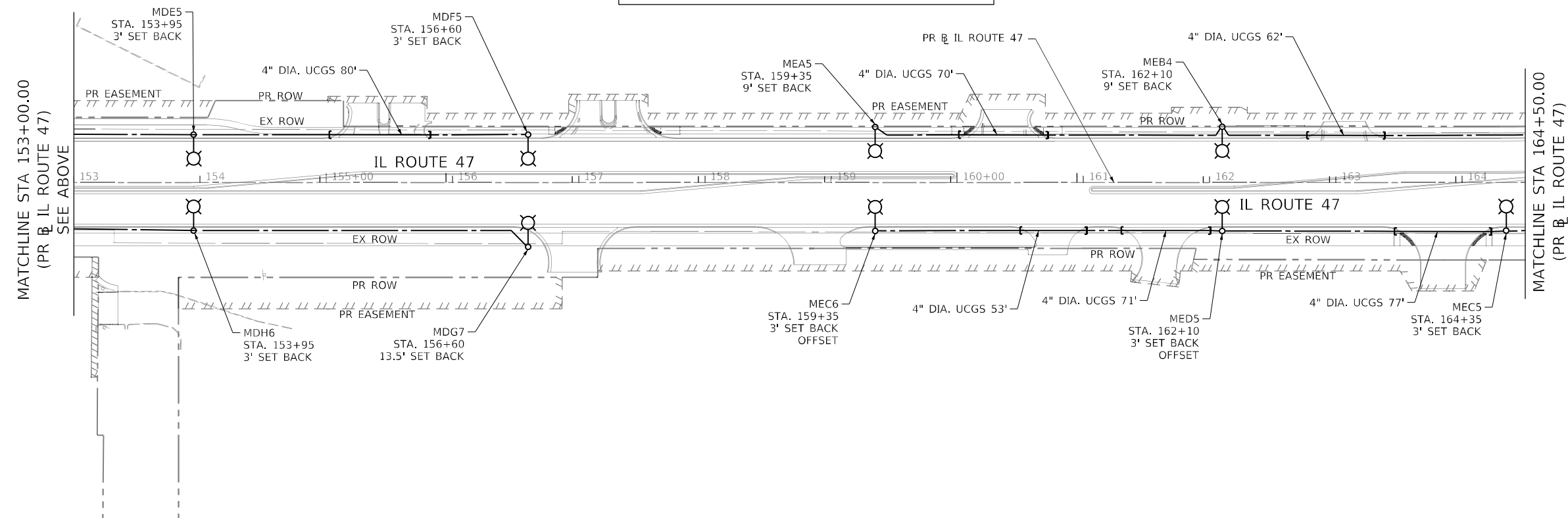
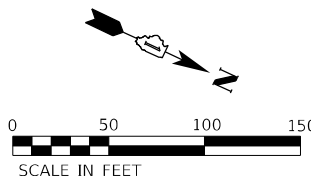
| PROPOSED WOODSTOCK LIGHTING PLAN<br>IL ROUTE 47 |         |    |        |
|-------------------------------------------------|---------|----|--------|
| SCALE: 1"=50'                                   | SHEET   | OF | SHEETS |
| STA.                                            | TO STA. |    |        |

| F.A.P. RTE.         | SECTION NO.         | COUNTY           | TOTAL SHEETS | SHEET NO. |
|---------------------|---------------------|------------------|--------------|-----------|
| 326                 | 2024-1052-N,C,SW,FL | McHENRY          | 941          | 725       |
| CONTRACT NO. 62X94  |                     |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS            | FED. AID PROJECT |              |           |





- NOTES:**
1. SEE GENERAL NOTES AND LEGEND ON SHEET 724.
  2. SET BACK IS FROM FACE OF CURB TO CENTER OF POLE.
  3. UCGS STANDS FOR UNDERGROUND CONDUIT GALVANIZED STEEL.
  4. 'OFFSET' INDICATED WHERE THE LIGHTING UNIT HAS AN UNDERGROUND CONFLICT AND OFFSET FOUNDATION MAY BE REQUIRED.



HRG PROJECT NO. 101-000000-00  
HRG PROJ. CONTACT: 312-600-0000  
FILE NAME: 101-000000-00.dgn  
PLOT DATE: 2/7/2025  
PEN TABLE: 000000.tbl

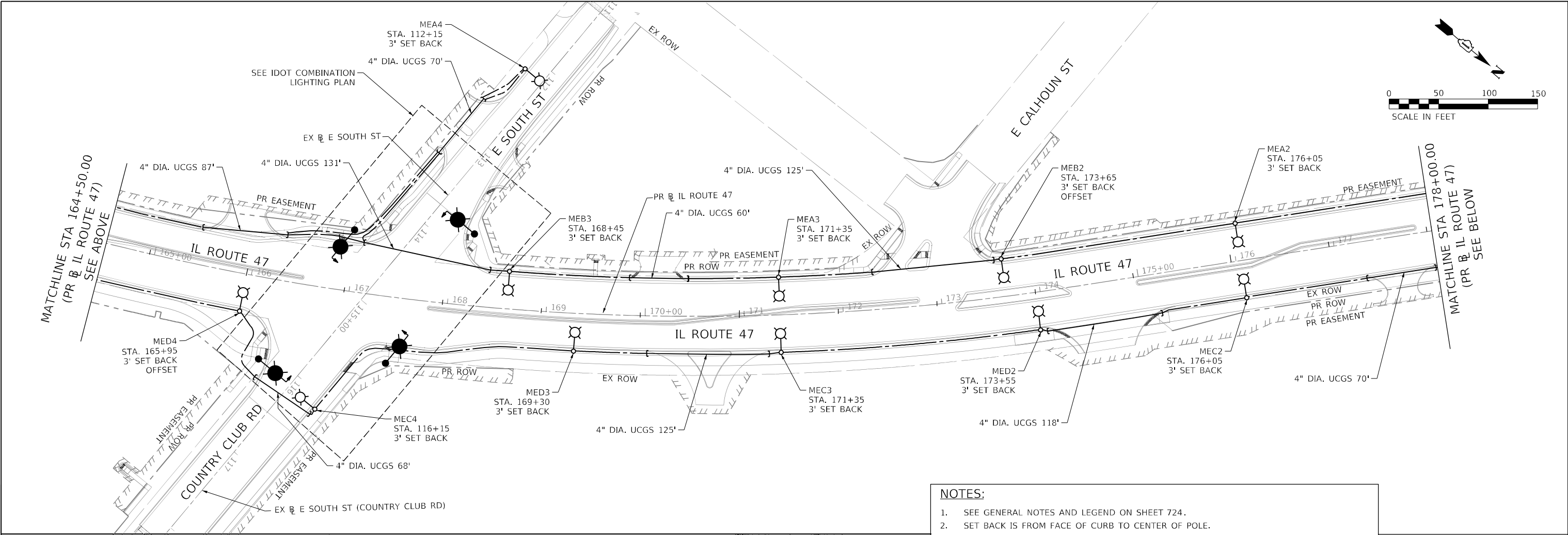
**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                             |                  |          |
|-----------------------------|------------------|----------|
| USER NAME: Srahman          | DESIGNED: BL     | REVISED: |
|                             | DRAWN: SR/MD     | REVISED: |
| PLOT SCALE: 100.0000' / in. | CHECKED: MH      | REVISED: |
| PLOT DATE: 2/7/2025         | DATE: 12-31-2024 | REVISED: |

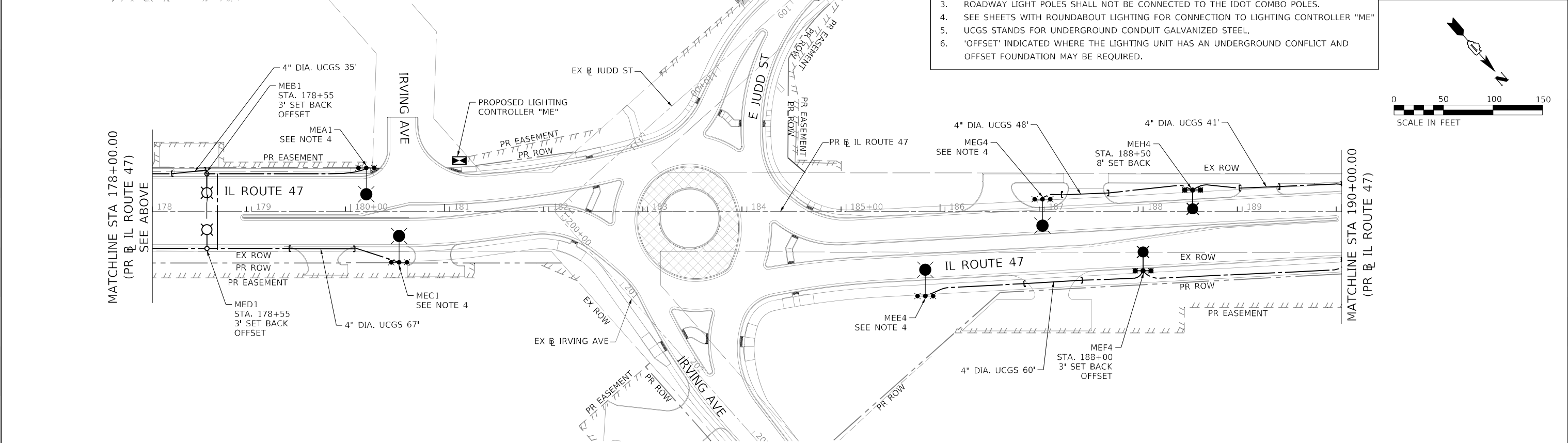
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

|                                  |         |    |        |
|----------------------------------|---------|----|--------|
| PROPOSED WOODSTOCK LIGHTING PLAN |         |    |        |
| IL ROUTE 47                      |         |    |        |
| SCALE: 1"=50'                    | SHEET   | OF | SHEETS |
| STA.                             | TO STA. |    |        |

|                     |                     |                  |              |           |
|---------------------|---------------------|------------------|--------------|-----------|
| F.A.P. RTE.         | SECTION NO.         | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 326                 | 2024-1052-N,C,SW,FL | McHENRY          | 941          | 726       |
| CONTRACT NO. 62X94  |                     |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS            | FED. AID PROJECT |              |           |



- NOTES:**
1. SEE GENERAL NOTES AND LEGEND ON SHEET 724.
  2. SET BACK IS FROM FACE OF CURB TO CENTER OF POLE.
  3. ROADWAY LIGHT POLES SHALL NOT BE CONNECTED TO THE IDOT COMBO POLES.
  4. SEE SHEETS WITH ROUNDABOUT LIGHTING FOR CONNECTION TO LIGHTING CONTROLLER "ME"
  5. UCGS STANDS FOR UNDERGROUND CONDUIT GALVANIZED STEEL.
  6. 'OFFSET' INDICATED WHERE THE LIGHTING UNIT HAS AN UNDERGROUND CONFLICT AND OFFSET FOUNDATION MAY BE REQUIRED.



HRG PROJECT NO. 24-00000000  
HRG PROJ. CONTACT: 24-00000000  
FILE NAME: 24-00000000-00000000  
PLOT DATE: 2/7/2025  
PEN TABLE: 24-00000000

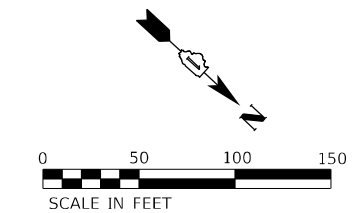
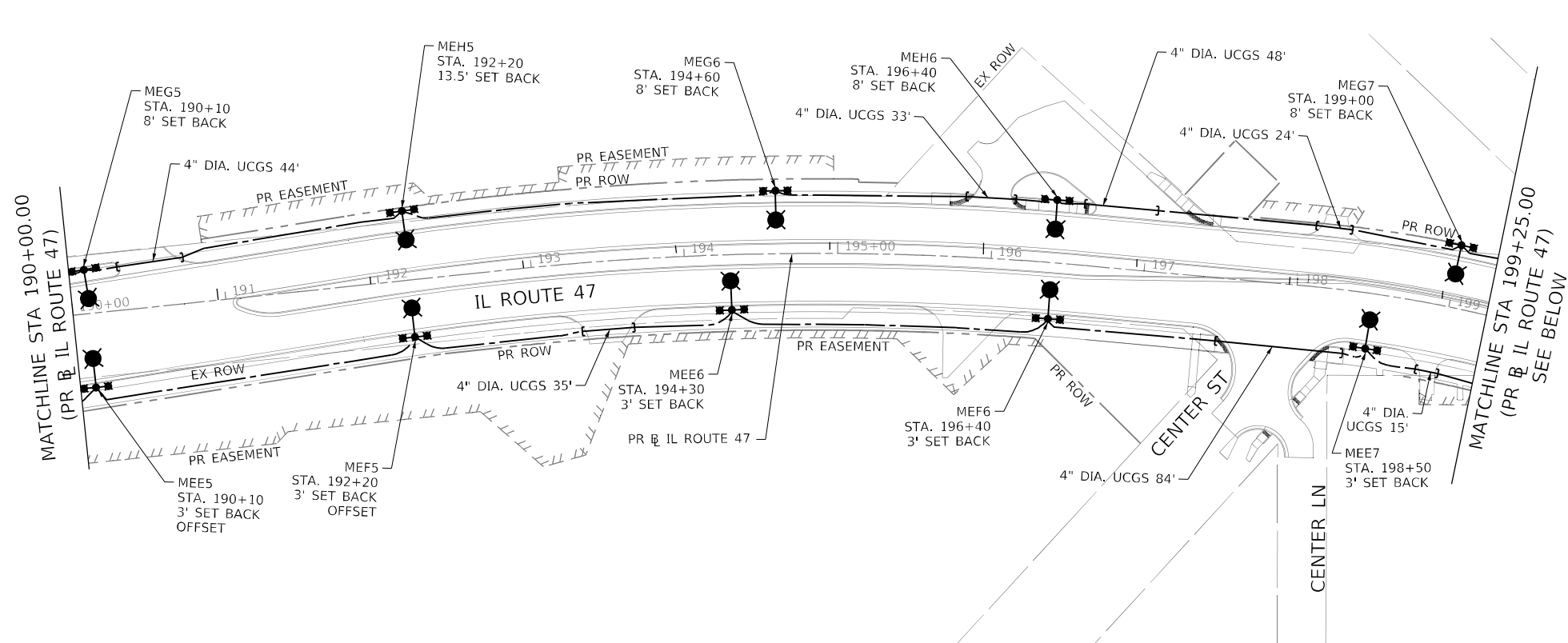
**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = Srahman          | DESIGNED - BL     | REVISED - |
|                              | DRAWN - SR/MD     | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - MH      | REVISED - |
| PLOT DATE = 2/7/2025         | DATE - 12-31-2024 | REVISED - |

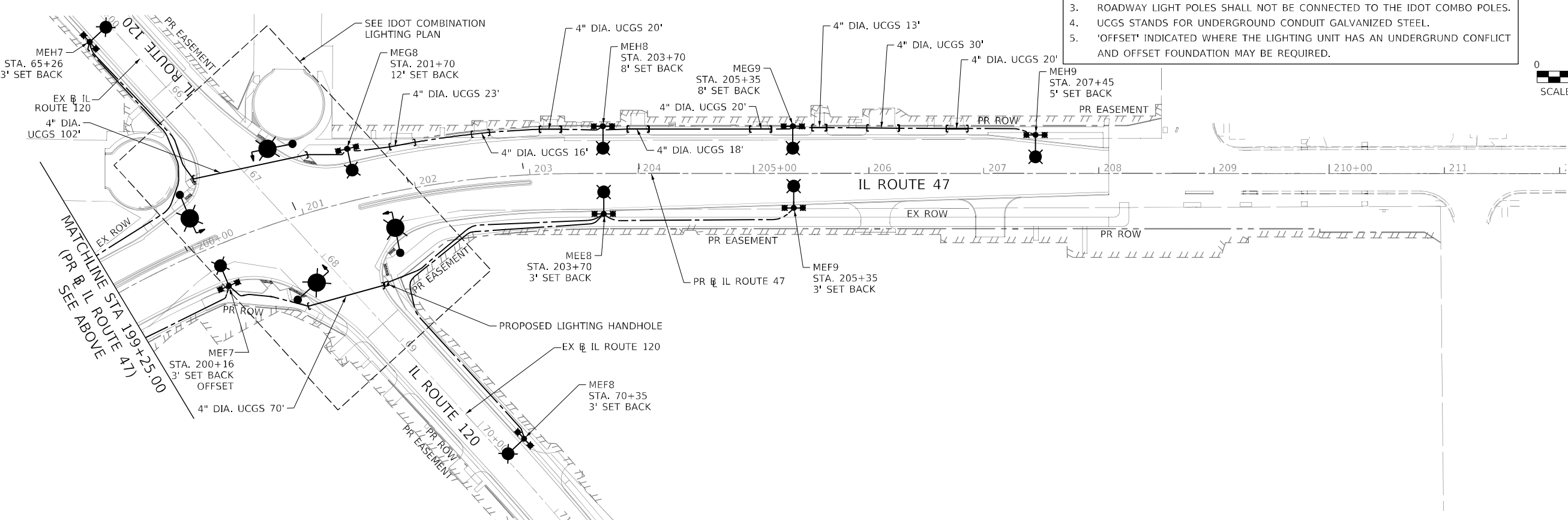
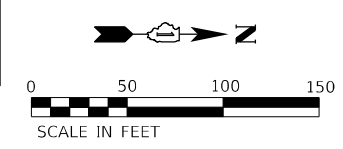
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

|                                  |       |      |        |
|----------------------------------|-------|------|--------|
| PROPOSED WOODSTOCK LIGHTING PLAN |       |      |        |
| IL ROUTE 47                      |       |      |        |
| SCALE: 1"=50'                    | SHEET | OF   | SHEETS |
| STA.                             | TO    | STA. | TO     |

|                     |                     |                           |              |           |
|---------------------|---------------------|---------------------------|--------------|-----------|
| F.A.P. RTE.         | SECTION NO.         | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 326                 | 2024-1052-N,C,SW,FL | McHENRY                   | 941          | 727       |
| FED. ROAD DIST. NO. |                     | ILLINOIS FED. AID PROJECT |              |           |
|                     |                     | CONTRACT NO. 62X94        |              |           |



- NOTES:**
1. SEE GENERAL NOTES AND LEGEND ON SHEET 724.
  2. SET BACK IS FROM FACE OF CURB TO CENTER OF POLE.
  3. ROADWAY LIGHT POLES SHALL NOT BE CONNECTED TO THE IDOT COMBO POLES.
  4. UCGS STANDS FOR UNDERGROUND CONDUIT GALVANIZED STEEL.
  5. 'OFFSET' INDICATED WHERE THE LIGHTING UNIT HAS AN UNDERGRUND CONFLICT AND OFFSET FOUNDATION MAY BE REQUIRED.



HRG PROJECT NO.: #PROJ21068  
HRG PROJ. CONTACT: #HRGPM8  
FILE NAME: 060077-lighting.dgn  
PLOT DATE: 2/7/2025  
PEN TABLE: #PEN TABLES

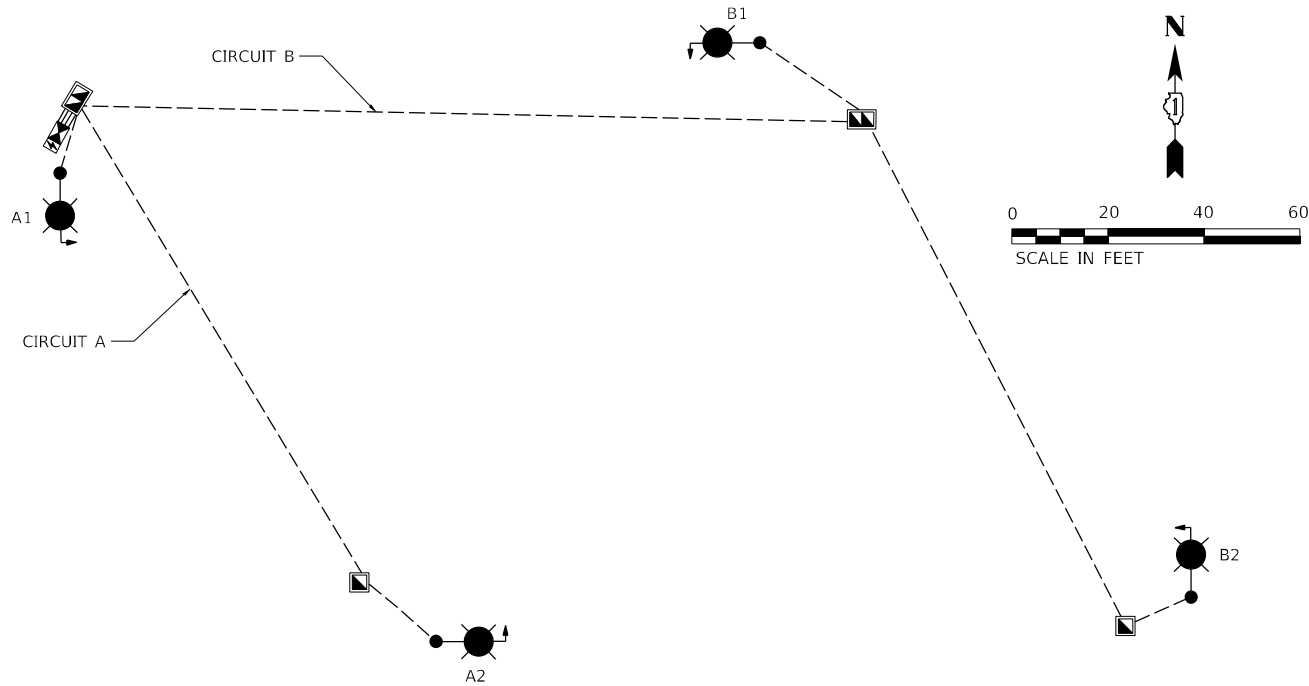
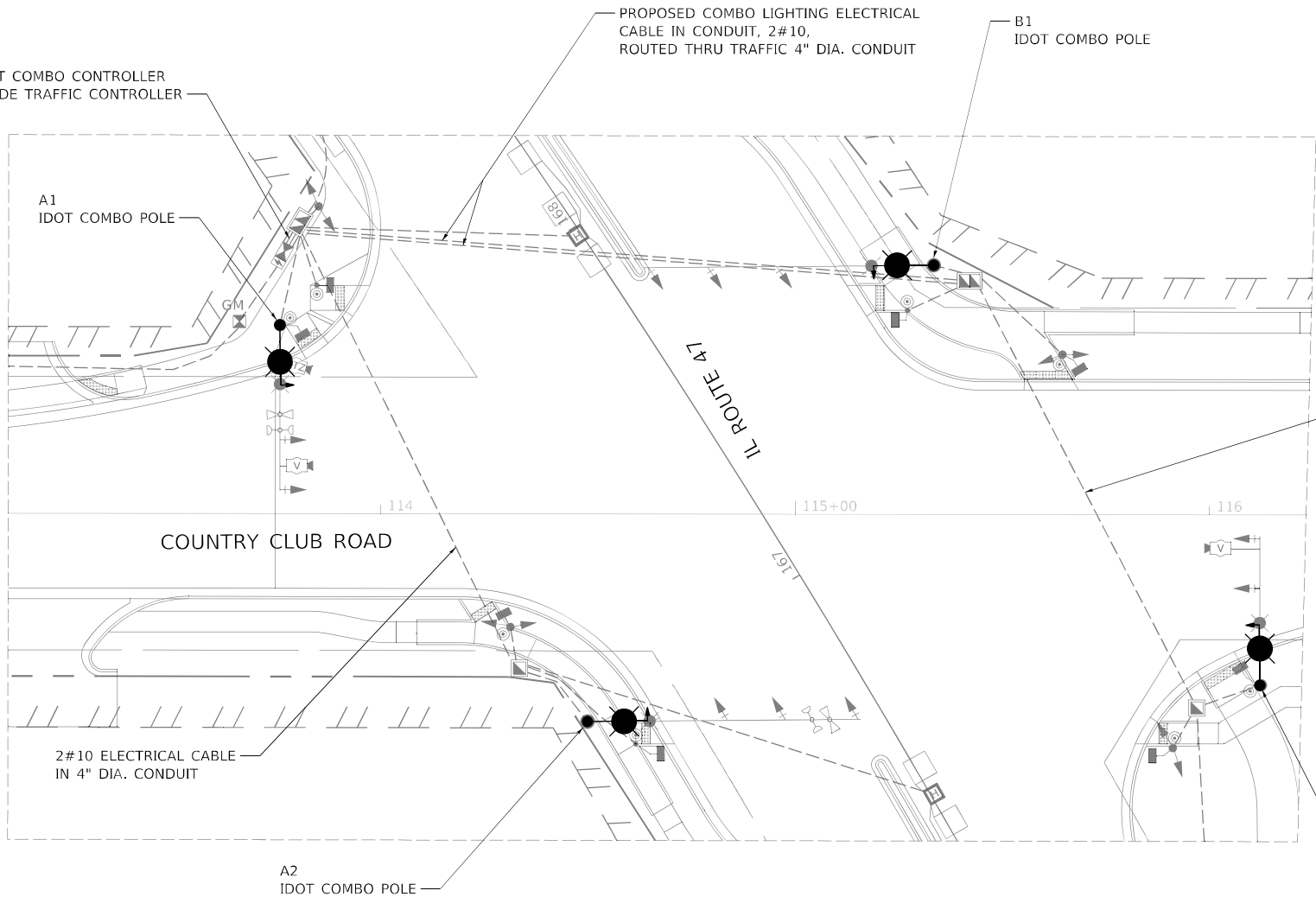
**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = Srahman          | DESIGNED - BL     | REVISED - |
|                              | DRAWN - SR/MD     | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - MH      | REVISED - |
| PLOT DATE = 2/7/2025         | DATE - 12-31-2024 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

| PROPOSED WOODSTOCK LIGHTING PLAN<br>IL ROUTE 47 |         |    |        |
|-------------------------------------------------|---------|----|--------|
| SCALE: 1"=50'                                   | SHEET   | OF | SHEETS |
| STA.                                            | TO STA. |    |        |

| F.A.P.<br>RTE.      | SECTION NO.         | COUNTY           | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------|---------------------|------------------|-----------------|--------------|
| 326                 | 2024-1052-N,C,SW,FL | McHENRY          | 941             | 728          |
| CONTRACT NO. 62X94  |                     |                  |                 |              |
| FED. ROAD DIST. NO. | ILLINOIS            | FED. AID PROJECT |                 |              |



| IDOT COMBO LIGHTING SCHEDULE OF QUANTITIES                    |      |          |
|---------------------------------------------------------------|------|----------|
| DESCRIPTION                                                   | UNIT | QUANTITY |
| LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G                 | EACH | 4        |
| COMBINATION LIGHTING CONTROLLER                               | EACH | 1        |
| LUMINAIRE SAFETY CABLE ASSEMBLY                               | EACH | 4        |
| ELECTRICAL CABLE IN CONDUIT, 600 V, (XLP TYPE USE) 1/C NO. 10 | FOOT | 660      |

NOTES:

- THE IDOT COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
- LUMINAIRES ARE POWERED FROM IDOT TRAFFIC CONTROLLER. SEE DETAIL BE-240
- THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
- SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HANDHOLES AND CONDUIT.
- CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING DECALS SHOWN IN FOR GUIDANCE ONLY.

HRG PROJECT NO. 62X94  
HRG PROJ. CONTACT: 62X94  
FILE NAME: 62X94-1052-N,C,SW,FL  
CITY: MCHENRY  
PEN TABLE: 62X94



|                             |                   |           |
|-----------------------------|-------------------|-----------|
| USER NAME = Srahman         | DESIGNED - BL     | REVISED - |
|                             | DRAWN - SR/MD     | REVISED - |
| PLOT SCALE = 40.0000' / in. | CHECKED - MH      | REVISED - |
| PLOT DATE = 2/7/2025        | DATE - 12-31-2024 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT PROPOSED LIGHTING COMBINATION PLAN  
SHEET 1 OF 2

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A.P. RTE.         | SECTION NO.         | COUNTY           | TOTAL SHEETS | SHEET NO. |
|---------------------|---------------------|------------------|--------------|-----------|
| 326                 | 2024-1052-N,C,SW,FL | MCHENRY          | 941          | 729       |
| CONTRACT NO. 62X94  |                     |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS            | FED. AID PROJECT |              |           |

HRG PROJECT NO.: #PROJECT1008  
HRG PROJ. CONTACT: #HRGPM8  
FILE NAME: 060077-lighting.dgn  
PLOT DATE: 2/7/2025  
PEN TABLE: #PEN1, TABLES



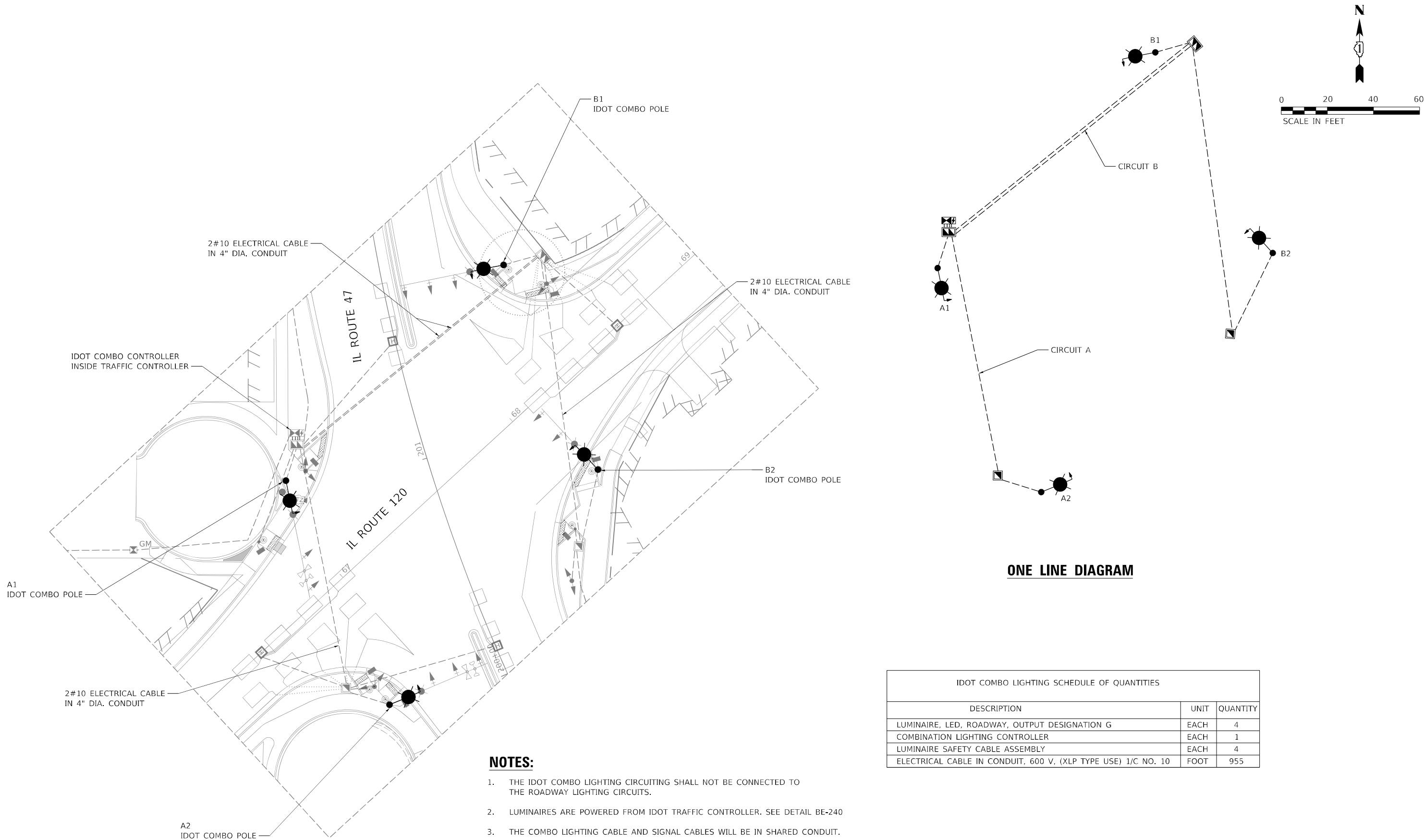
|                             |                   |           |
|-----------------------------|-------------------|-----------|
| USER NAME = Srahman         | DESIGNED - BL     | REVISED - |
|                             | DRAWN - SR/MD     | REVISED - |
| PLOT SCALE = 40.0000' / in. | CHECKED - MH      | REVISED - |
| PLOT DATE = 2/7/2025        | DATE - 12-31-2024 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT PROPOSED LIGHTING COMBINATION PLAN  
SHEET 2 OF 2

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. TO STA.

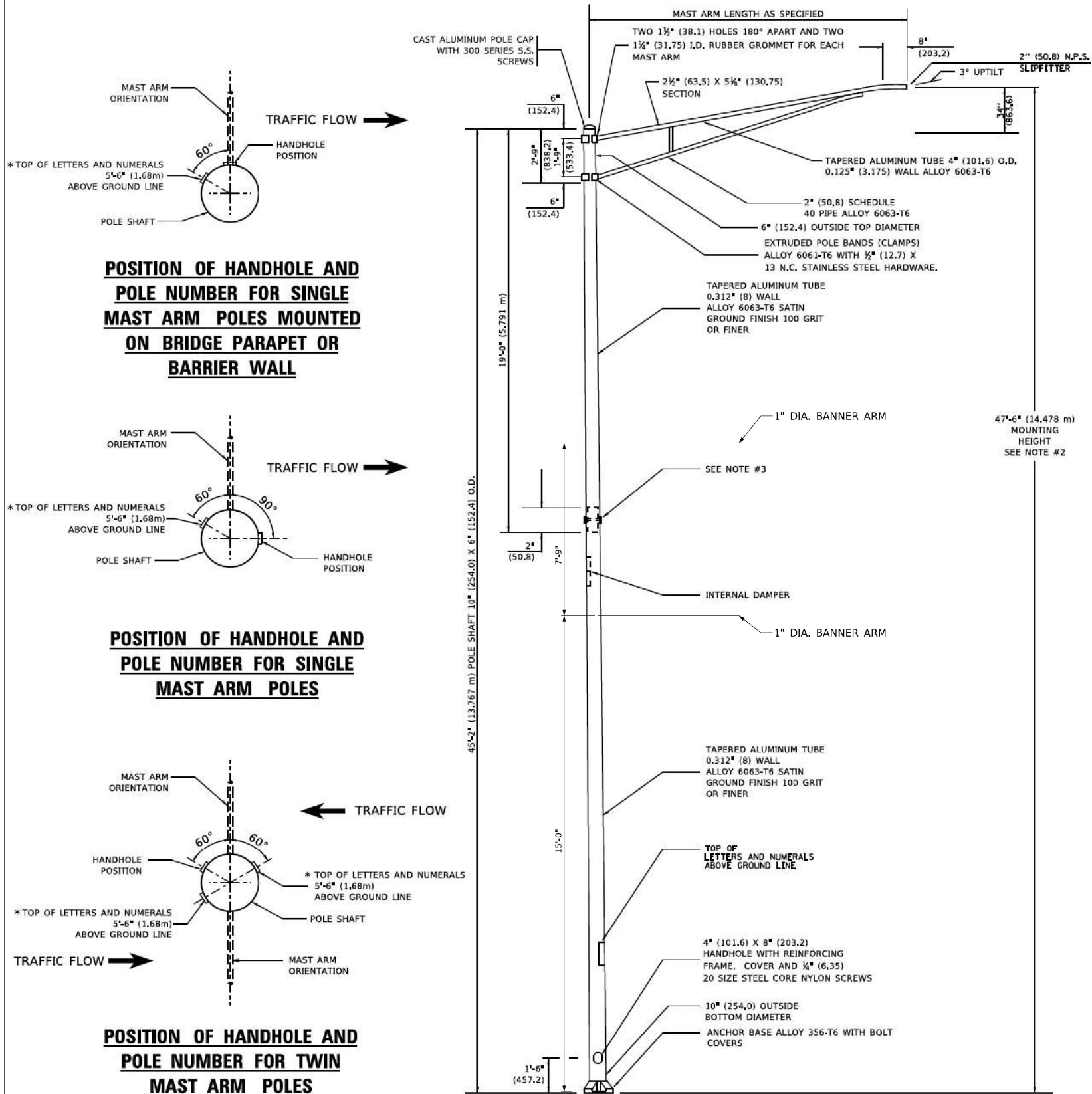
|                     |                     |                  |              |           |
|---------------------|---------------------|------------------|--------------|-----------|
| F.A.P. RTE.         | SECTION NO.         | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 326                 | 2024-1052-N,C,SW,FL | MCHENRY          | 941          | 730       |
| CONTRACT NO. 62X94  |                     |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS            | FED. AID PROJECT |              |           |



NOTES:

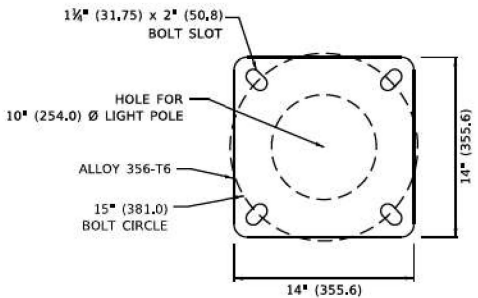
1. THE IDOT COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM IDOT TRAFFIC CONTROLLER. SEE DETAIL BE-240
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HANDHOLES AND CONDUIT.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING DECALS SHOWN IN FOR GUIDANCE ONLY.

| IDOT COMBO LIGHTING SCHEDULE OF QUANTITIES                    |      |          |
|---------------------------------------------------------------|------|----------|
| DESCRIPTION                                                   | UNIT | QUANTITY |
| LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G                 | EACH | 4        |
| COMBINATION LIGHTING CONTROLLER                               | EACH | 1        |
| LUMINAIRE SAFETY CABLE ASSEMBLY                               | EACH | 4        |
| ELECTRICAL CABLE IN CONDUIT, 600 V, (XLP TYPE USE) 1/C NO. 10 | FOOT | 955      |



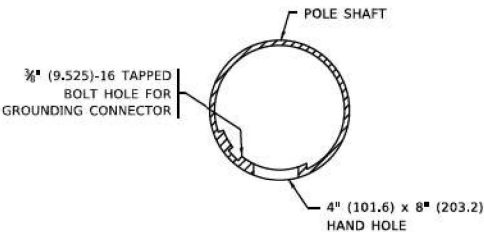
NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.
9. LIGHT POLE AND MAST ARM SHALL HAVE A POLYESTER BLACK PAINT FINISH TO MATCH THE DECORATIVE LIGHTING UNITS.
10. THE TWO BREAKAWAY BANNER ARMS SHALL BE DESIGNED TO BREAK AT 60 MPH WIND SPEED.
11. BANNER ARM POLES CANNOT BE INSTALLED AT SIGNALIZED INTERSECTIONS OR TRANSITION AREAS.



LIGHT POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL  
(N.T.S.)

HRG PROJECT NO. 62X94  
HRG PROJ. CONTACT: SRH/HRG  
FILE NAME: 060077-light.tbl  
PLOT NAME: 060077-light.tbl  
PEN TABLE: WFLA.TBL

AMES Engineering, Inc.  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = Srahman          | DESIGNED - BL     | REVISED - |
|                              | DRAWN - SR/MD     | REVISED - |
| PLOT SCALE = 0.0070' / 1 in. | CHECKED - MH      | REVISED - |
| PLOT DATE = 2/7/2025         | DATE - 12-31-2024 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

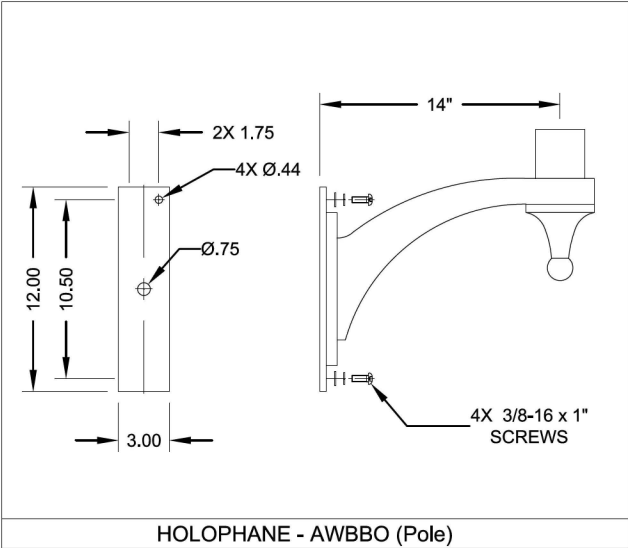
WOODSTOCK - ALUMINUM LIGHT POLE  
47'-6" (14.478 m) MOUNTING HEIGHT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

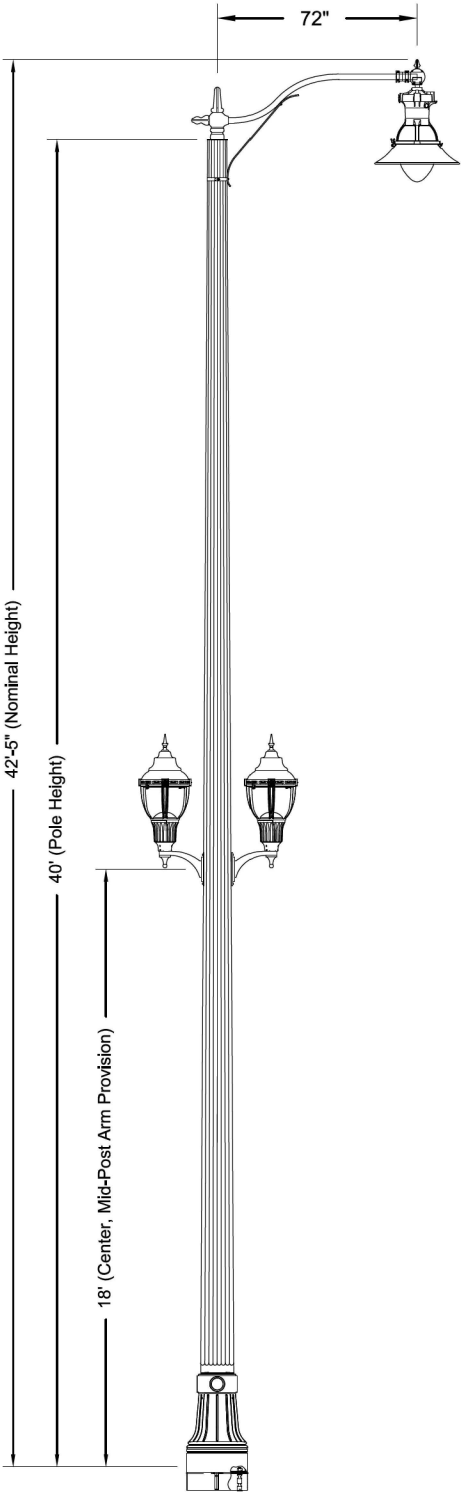
| F.A.P. RTE.                                   | SECTION NO.         | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-----------------------------------------------|---------------------|---------|--------------|-----------|
| 326                                           | 2024-1052-N.C.SW.FL | MCHENRY | 941          | 731       |
| CONTRACT NO. 62X94                            |                     |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                     |         |              |           |



MODEL: Default  
FILE NAME: acuitybrands\pww\benley.com\AECOM\_DS21\_NA\_2020\Documents\60637011-IL-471900-CAD\010\_CAD\03\_SHEETS\Lighting\0160X17xht01-STD Light\_09A.dgn



NOTE:  
ORIENTATION OF ACORN FIXTURES SHALL BE PARALLEL TO ROADWAY.



**Round Tapered Fluted (16 Sharp)Steel Pole**

Tenon: 3"x5", Finish: Holophane Black  
Harrisburg Ø22" Cast Aluminum Clamshell Base  
Break-away Couplings

**Boston Harbor Roadway Arm**

Black finish, for Single Teardrop style fixture

**Annapolis Mid-Post Arm**

Bolt-on, 2 @ 180°  
for Single Pendant Style fixture 3x3 Tenon

**Boston Harbor Decorative Fitter w/QSM**

**Esplanade Teardrop LED 2 Series**

14,900 Lumens, 3 COBs  
AutoSensing Voltage (120-277) 50/60Hz

Black finish

Teardrop Glass & Door

Type 3 Asymmetric Distribution

Quick Lock Stem Mount

Ø30" Deep Skirt for Cutoff Requirement

**Utility Washington FCO LED Series**

LED Performance Pkg P20

4000 Series CCT

Auto-Sensing Voltage (120-277)

Black finish, Spike Finial

Type 3 Cutoff LED Distribution

NEMA Twistlock Dimming Photocontrol Receptacle 7-Pin  
Shorting Cap

- CUSTOMER NOTES:**
- STANDARD HOLOPHANE SPECS NOT SHOWN HERE CAN BE FOUND ON SEPARATE CUT SHEETS (PLEASE SEE SALES).
  - ANCHORAGE DETAIL PROVIDED FOR VISUAL ONLY - DO NOT USE TO SET ANCHOR BOLTS.**
  - SIGNED APPROVAL TO ACCOMPANY PO.

**Catalog #s:**  
Pole: FL219-900A400-3T5-(2)PROVS-CSB-BRKWT-BK RFD318978  
Anchor Bolts: VAL1ABSET RFD318978  
Roadway Arm: BHC72/1CABKH  
Mid-Post Arms: (2)AWBBOCABKH RFD318978  
Fitter: BHDF13200BK  
Fixture: ESL2P35S40KASBKTG3SDS

**Customer Signature** **Date**

**HOLOPHANE**  
LEADER IN LIGHTING SOLUTIONS

An **Acuity** Brands Company

©2002 ACUITY LIGHTING GROUP INC.,  
214 OAKWOOD AVE., NEWARK, OH 43055

|     |               |               |             |                                       |       |                              |                          |
|-----|---------------|---------------|-------------|---------------------------------------|-------|------------------------------|--------------------------|
|     |               |               |             | SOLD TO: CITY OF WOODSTOCK, RFD318978 | JOB   | CITY OF WOODSTOCK, RFD318978 | ORDER NUMBER: IL496305P2 |
|     |               |               |             | SHIP TO: WOODSTOCK, IL                |       | WOODSTOCK, IL                | PAGE NUMBER: 2 OF 1      |
|     |               |               |             | P.O. #: 2414-20-10109-1 (DR22139)     |       |                              | DRAWING NUMBER           |
|     |               |               |             | AGENT: STEPHANIE LEHMAN               | TITLE | LIGHTING STRUCTURES          | REV                      |
| REV | DRAWN BY-DATE | CHECK BY-DATE | DESCRIPTION |                                       |       |                              | TSG012415                |

**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

|                               |                   |           |
|-------------------------------|-------------------|-----------|
| USER NAME = MTadden           | DESIGNED - MK     | REVISED - |
|                               | DRAWN - MT        | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - MR      | REVISED - |
| PLOT DATE = 2/5/2025          | DATE - 02/06/2025 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WOODSTOCK DETAILS**  
**DECORATIVE LIGHT POLE DETAILS**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

|             |                     |          |                  |                    |
|-------------|---------------------|----------|------------------|--------------------|
| F.A.P. RTE. | SECTION             | COUNTY   | TOTAL SHEETS     | SHEET NO.          |
| 326         | 2024-1052-N,C,SW,FL | MCHENRY  | 941              | 732                |
|             |                     |          |                  | CONTRACT NO. 62X94 |
|             |                     | ILLINOIS | FED. AID PROJECT |                    |







TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

| ITEM                                                                        |  |          |  | ITEM                                               |  |          |  | ITEM                                                                                                              |  |          |  |
|-----------------------------------------------------------------------------|--|----------|--|----------------------------------------------------|--|----------|--|-------------------------------------------------------------------------------------------------------------------|--|----------|--|
| EXISTING                                                                    |  | PROPOSED |  | EXISTING                                           |  | PROPOSED |  | EXISTING                                                                                                          |  | PROPOSED |  |
| CONTROLLER CABINET                                                          |  |          |  | HANDHOLE<br>-SQUARE<br>-ROUND                      |  |          |  | SIGNAL HEAD<br>-(P) PROGRAMMABLE SIGNAL HEAD                                                                      |  |          |  |
| COMMUNICATION CABINET                                                       |  |          |  | HEAVY DUTY HANDHOLE<br>-SQUARE<br>-ROUND           |  |          |  | SIGNAL HEAD WITH BACKPLATE<br>-(P) PROGRAMMABLE SIGNAL HEAD<br>-(RB) RETROREFLECTIVE BACKPLATE                    |  |          |  |
| MASTER CONTROLLER                                                           |  |          |  | DOUBLE HANDHOLE                                    |  |          |  | PEDESTRIAN SIGNAL HEAD<br>AT RAILROAD INTERSECTIONS                                                               |  |          |  |
| MASTER MASTER CONTROLLER                                                    |  |          |  | JUNCTION BOX                                       |  |          |  | PEDESTRIAN SIGNAL HEAD<br>WITH COUNTDOWN TIMER                                                                    |  |          |  |
| UNINTERRUPTABLE POWER SUPPLY                                                |  |          |  | RAILROAD CANTILEVER MAST ARM                       |  |          |  | ILLUMINATED SIGN<br>"NO LEFT TURN"/"NO RIGHT TURN"                                                                |  |          |  |
| SERVICE INSTALLATION<br>-(P) POLE MOUNTED                                   |  |          |  | RAILROAD FLASHING SIGNAL                           |  |          |  | NUMBER OF CONDUCTORS, ELECTRIC<br>CABLE NO. 14, UNLESS NOTED OTHERWISE.<br>ALL DETECTOR LOOP CABLE TO BE SHIELDED |  |          |  |
| SERVICE INSTALLATION<br>-(G) GROUND MOUNTED<br>-(GM) GROUND MOUNTED METERED |  |          |  | RAILROAD CROSSING GATE                             |  |          |  | GROUND CABLE IN CONDUIT,<br>NO. 6 SOLID COPPER (GREEN)                                                            |  |          |  |
| TELEPHONE CONNECTION                                                        |  |          |  | RAILROAD CROSSBUCK                                 |  |          |  | ELECTRIC CABLE IN CONDUIT, TRACER<br>NO. 14 1/C                                                                   |  |          |  |
| STEEL MAST ARM ASSEMBLY AND POLE                                            |  |          |  | RAILROAD CONTROLLER CABINET                        |  |          |  | COAXIAL CABLE                                                                                                     |  |          |  |
| ALUMINUM MAST ARM ASSEMBLY AND POLE                                         |  |          |  | UNDERGROUND CONDUIT (UC),<br>GALVANIZED STEEL      |  |          |  | VENDOR CABLE                                                                                                      |  |          |  |
| STEEL COMBINATION MAST ARM<br>ASSEMBLY AND POLE WITH LUMINAIRE              |  |          |  | TEMPORARY SPAN WIRE,<br>TETHER WIRE, AND CABLE     |  |          |  | COPPER INTERCONNECT CABLE,<br>NO. 18, 3 PAIR TWISTED, SHIELDED                                                    |  |          |  |
| SIGNAL POST<br>-(BM) BARREL MOUNTED - TEMPORARY                             |  |          |  | SYSTEM ITEM                                        |  |          |  | FIBER OPTIC CABLE<br>-NO. 62.5/125, MM12F<br>-NO. 62.5/125, MM12F SM12F<br>-NO. 62.5/125, MM12F SM24F             |  |          |  |
| WOOD POLE                                                                   |  |          |  | INTERSECTION ITEM                                  |  |          |  | GROUND ROD<br>-(C) CONTROLLER<br>-(M) MAST ARM<br>-(P) POST<br>-(S) SERVICE                                       |  |          |  |
| GUY WIRE                                                                    |  |          |  | REMOVE ITEM                                        |  |          |  |                                                                                                                   |  |          |  |
| SIGNAL HEAD                                                                 |  |          |  | RELOCATE ITEM                                      |  |          |  |                                                                                                                   |  |          |  |
| SIGNAL HEAD WITH BACKPLATE                                                  |  |          |  | ABANDON ITEM                                       |  |          |  |                                                                                                                   |  |          |  |
| SIGNAL HEAD OPTICALLY PROGRAMMED                                            |  |          |  | CONTROLLER CABINET AND<br>FOUNDATION TO BE REMOVED |  |          |  |                                                                                                                   |  |          |  |
| FLASHER INSTALLATION<br>-(FS) SOLAR POWERED                                 |  |          |  | MAST ARM POLE AND<br>FOUNDATION TO BE REMOVED      |  |          |  |                                                                                                                   |  |          |  |
| PEDESTRIAN SIGNAL HEAD                                                      |  |          |  | SIGNAL POST AND<br>FOUNDATION TO BE REMOVED        |  |          |  |                                                                                                                   |  |          |  |
| PEDESTRIAN PUSH BUTTON<br>-(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON          |  |          |  | DETECTOR LOOP, TYPE I                              |  |          |  |                                                                                                                   |  |          |  |
| RADAR DETECTION SENSOR                                                      |  |          |  | PREFORMED DETECTOR LOOP                            |  |          |  |                                                                                                                   |  |          |  |
| VIDEO DETECTION CAMERA                                                      |  |          |  | SAMPLING (SYSTEM) DETECTOR                         |  |          |  |                                                                                                                   |  |          |  |
| RADAR/VIDEO DETECTION ZONE                                                  |  |          |  | INTERSECTION AND SAMPLING<br>(SYSTEM) DETECTOR     |  |          |  |                                                                                                                   |  |          |  |
| PAN, TILT, ZOOM (PTZ) CAMERA                                                |  |          |  | QUEUE AND SAMPLING<br>(SYSTEM) DETECTOR            |  |          |  |                                                                                                                   |  |          |  |
| EMERGENCY VEHICLE LIGHT DETECTOR                                            |  |          |  | WIRELESS DETECTOR SENSOR                           |  |          |  |                                                                                                                   |  |          |  |
| CONFIMATION BEACON                                                          |  |          |  | WIRELESS ACCESS POINT                              |  |          |  |                                                                                                                   |  |          |  |
| WIRELESS INTERCONNECT                                                       |  |          |  |                                                    |  |          |  |                                                                                                                   |  |          |  |
| WIRELESS INTERCONNECT RADIO REPEATER                                        |  |          |  |                                                    |  |          |  |                                                                                                                   |  |          |  |

|                                                                                                                                                |                              |  |                  |           |                                                   |                                                        |         |             |           |                      |                    |                             |           |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|------------------|-----------|---------------------------------------------------|--------------------------------------------------------|---------|-------------|-----------|----------------------|--------------------|-----------------------------|-----------|
| MODEL Default:<br>FILE NAME: p:\u0048\B\NTEC\Illinois.gov\PIVIDOT\Documents\DOT_Offices\Dirtdt_1\Projects\Dirtdt_1\ACAD\DATA\CAD\sheetst05.dgn | USER NAME = [footem]         |  | DESIGNED - IP    | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | DISTRICT ONE<br>STANDARD TRAFFIC SIGNAL DESIGN DETAILS |         |             | F.A. RTE. | SECTION              | COUNTY             | TOTAL SHEETS                | SHEET NO. |
|                                                                                                                                                | DRAWN - IP                   |  | REVISIED -       | REVISED - |                                                   |                                                        |         |             | 326       | 2024-1052-N,C,SW,FL. | MCHENRY            | 941                         | 735       |
|                                                                                                                                                | PLOT SCALE = 50.0000 ' / 1". |  | CHECKED - LP     | REVISED - |                                                   |                                                        |         |             | TS-05     |                      | CONTRACT NO. 62X94 |                             |           |
|                                                                                                                                                | PLOT DATE = 3/4/2019         |  | DATE - 9/29/2016 | REVISED - |                                                   | SCALE: NONE                                            | SHEET 1 | OF 7 SHEETS | STA.      | TO STA.              |                    | ILLINOIS   FED. AID PROJECT |           |

EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

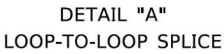
IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

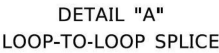
PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



- LOOPS SHALL BE SPICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



## TYPE I LOOP

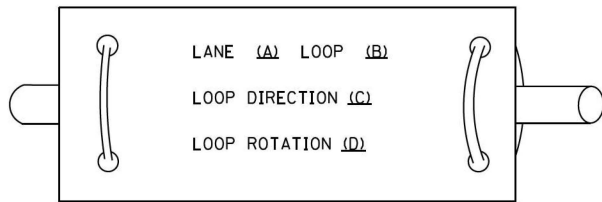


## PRE-FORMED LOOP

## LOOP DETECTOR SPLICE

- |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>① WESTERN UNION SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.</p> <p>② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.</p> <p>③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.</p> <p>④ NO. 14 2/C TWISTED, SHIELDED CABLE.</p> | <p>⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP</p> <p>⑥ XL POLYOLEFIN 2 CONDUCTOR</p> <p>⑦ BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

### LOOP LEAD-IN CABLE TAG



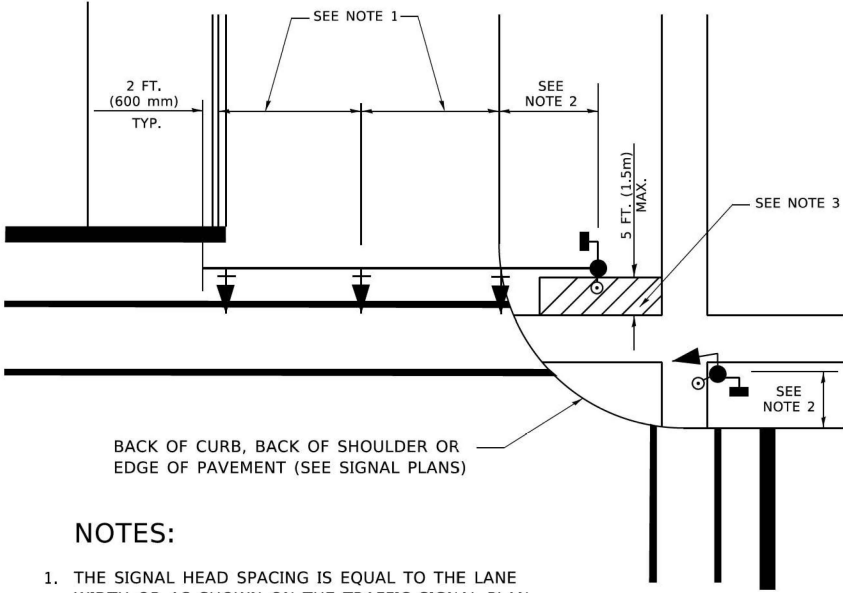
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY.
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

|  |                             |            |           |                                                                                                            |                                                                                                                 |  |         |             |           |                      |                                                                                      |              |           |
|--|-----------------------------|------------|-----------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|---------|-------------|-----------|----------------------|--------------------------------------------------------------------------------------|--------------|-----------|
|  | USER NAME = footemj         | DESIGNED - | REVISED - | <div style="text-align: center;"> <b>STATE OF ILLINOIS</b><br/> <b>DEPARTMENT OF TRANSPORTATION</b> </div> | <div style="text-align: center;"> <b>DISTRICT ONE</b><br/> <b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b> </div> |  |         |             | F.A. RTE. | SECTION              | COUNTY                                                                               | TOTAL SHEETS | SHEET NO. |
|  |                             | DRAWN -    | REVISED - |                                                                                                            |                                                                                                                 |  |         |             | 326       | 2024-1052-N,C,SW,FL. | MCHENRY                                                                              | 941          | 736       |
|  | PLOT SCALE = 50,0000 ' / 1" | CHECKED -  | REVISED - |                                                                                                            | SCALE: NONE                                                                                                     |  | SHEET 2 | OF 7 SHEETS | STA.      | TO STA.              | <div style="text-align: center;"> <b>TS-05</b>      <b>CONTRACT NO. 62X94</b> </div> |              |           |
|  | PLOT DATE = 3/4/2019        | DATE -     | REVISED - |                                                                                                            | ILLINOIS    FED. AID PROJECT                                                                                    |  |         |             |           |                      |                                                                                      |              |           |

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TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

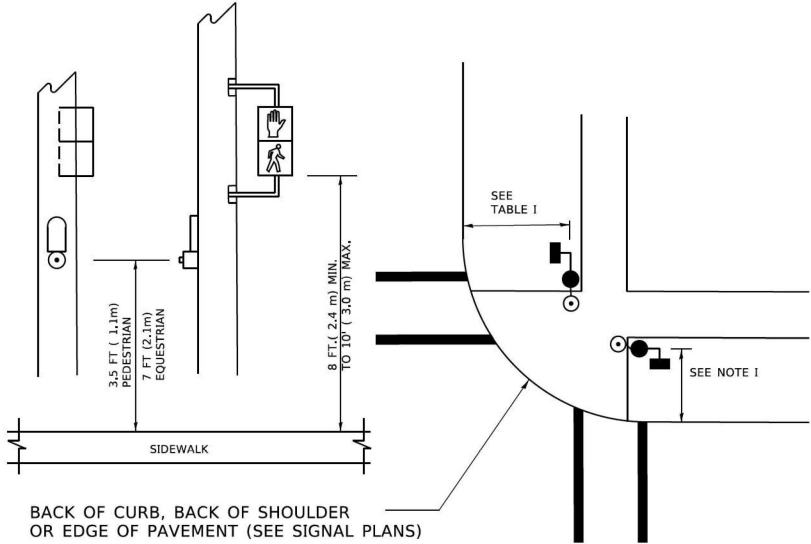
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

- 1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

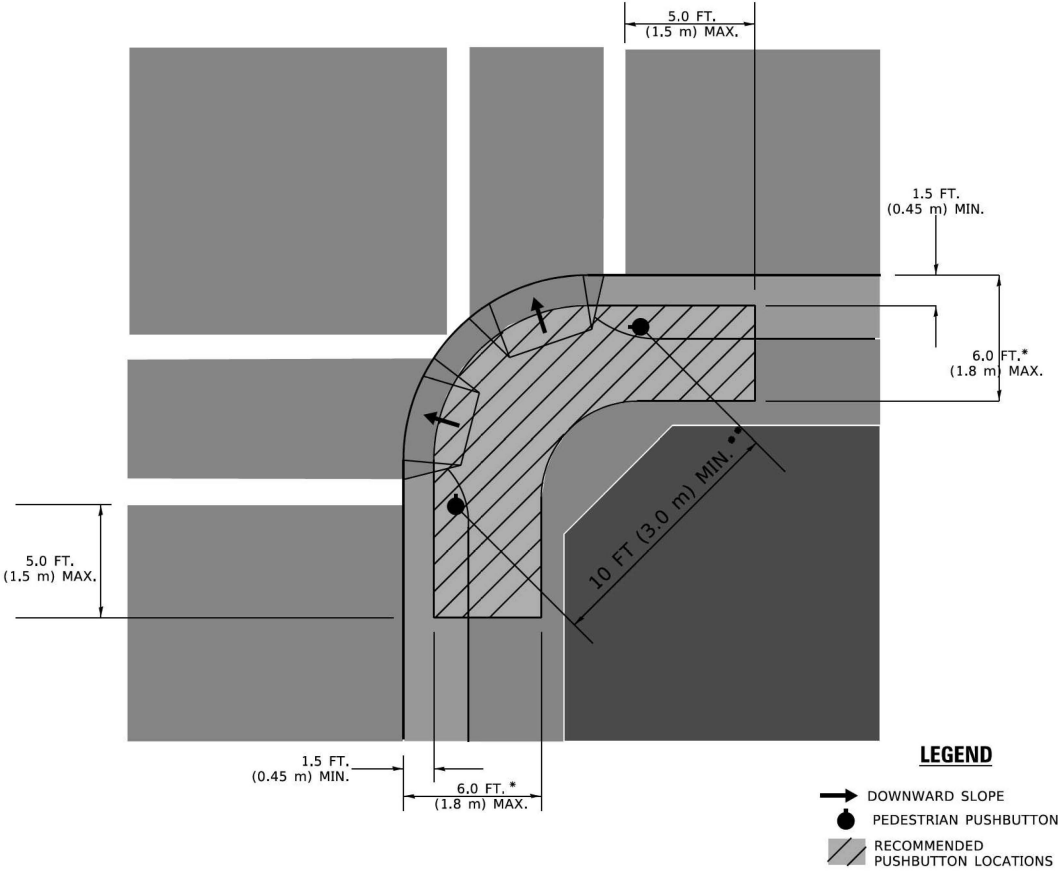
PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- \* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- \*\* WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

- 1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

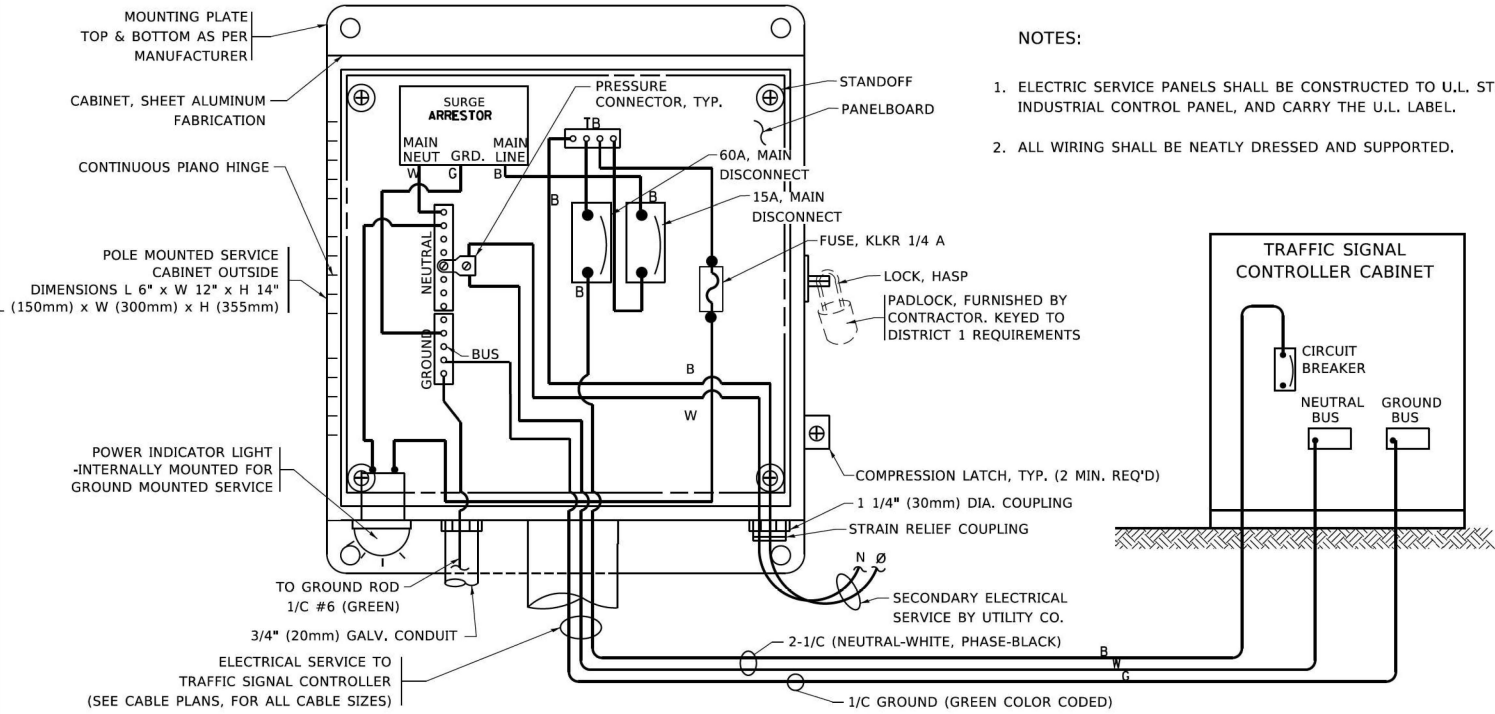
| TRAFFIC SIGNAL EQUIPMENT           | COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION) | SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION) |
|------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| TRAFFIC SIGNAL MAST ARM POLE       | 6 FT (1.8m)                                                                                           | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)                                            |
| TRAFFIC SIGNAL POST                | 4 FT (1.2m)                                                                                           | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)                                            |
| PEDESTRIAN SIGNAL POST             | 4 FT (1.2m)                                                                                           | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)                                            |
| PEDESTRIAN PUSHBUTTON POST         | 4 FT (1.2m)                                                                                           | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)                                            |
| TEMPORARY WOOD POLE                | 6 FT (1.8m)                                                                                           | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)                                            |
| CONTROLLER CABINET                 | 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2                                                               | SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.                                |
| SERVICE INSTALLATION, GROUND MOUNT | 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2                                                               | SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.                                |

NOTES:

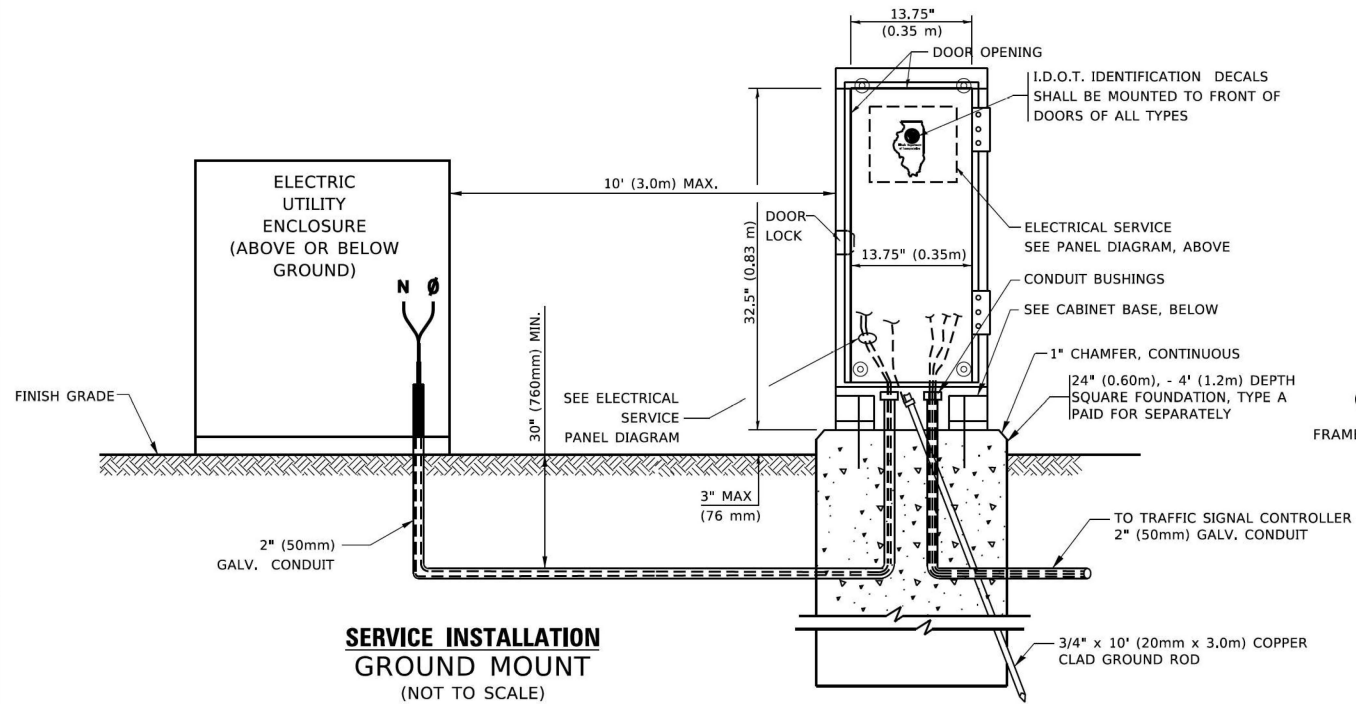
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

|                              |            |           |                                                   |                                              |  |  |  |  |           |                     |                    |                  |           |
|------------------------------|------------|-----------|---------------------------------------------------|----------------------------------------------|--|--|--|--|-----------|---------------------|--------------------|------------------|-----------|
| USER NAME = footemj          | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | DISTRICT ONE                                 |  |  |  |  | F.A. RTE. | SECTION             | COUNTY             | TOTAL SHEETS     | SHEET NO. |
|                              | DRAWN -    | REVISED - |                                                   | STANDARD TRAFFIC SIGNAL DESIGN DETAILS       |  |  |  |  | 326       | 2024-1052-N,C,SW,FL | MCHENRY            | 941              | 737       |
| PLOT SCALE = 50,0000 ' / in. | CHECKED -  | REVISED - |                                                   |                                              |  |  |  |  | TS-05     |                     | CONTRACT NO. 62X94 |                  |           |
| PLOT DATE = 3/4/2019         | DATE -     | REVISED - |                                                   | SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA. |  |  |  |  |           |                     | ILLINOIS           | FED. AID PROJECT |           |

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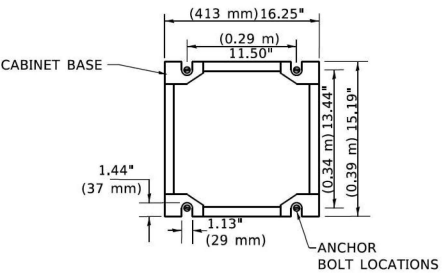


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
(NOT TO SCALE)



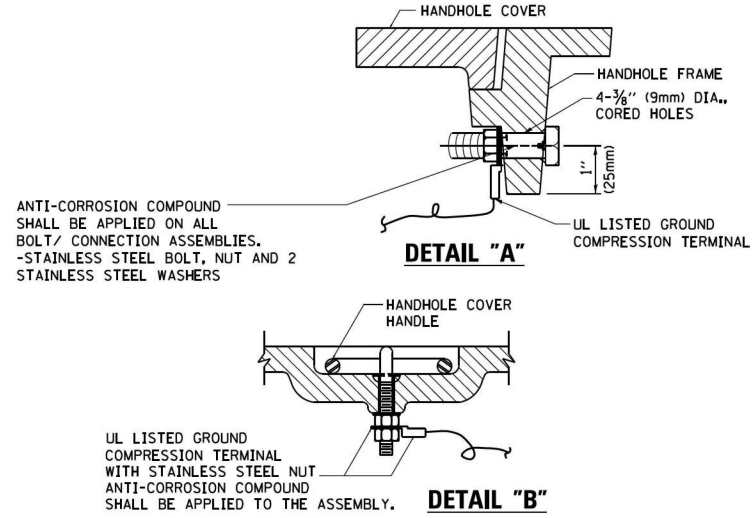
**SERVICE INSTALLATION**  
**GROUND MOUNT**  
(NOT TO SCALE)

**CABINET – BASE BOLT PATTERN**  
(NOT TO SCALE)

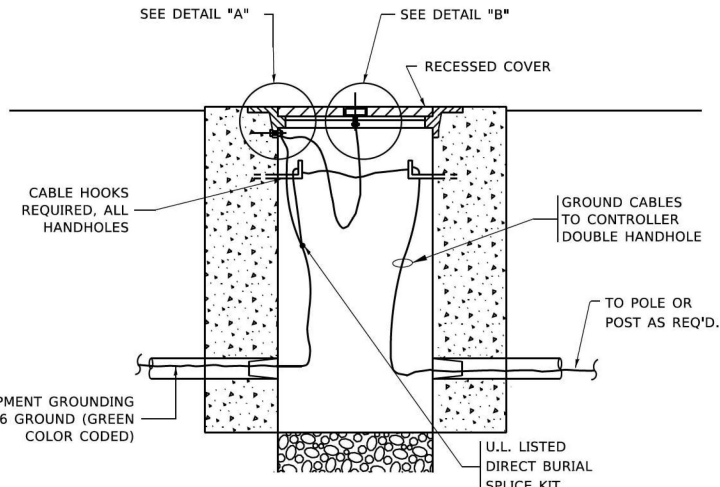


NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



**HANDHOLE COVER & FRAME – GROUNDING DETAIL**  
(NOT TO SCALE)



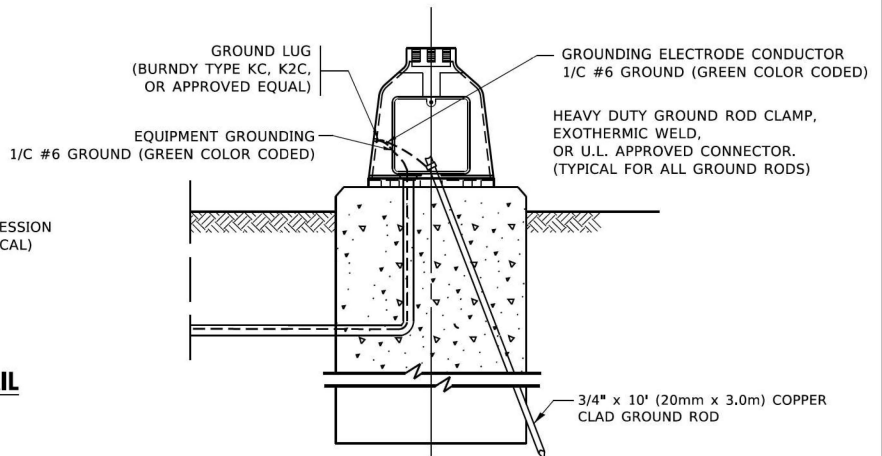
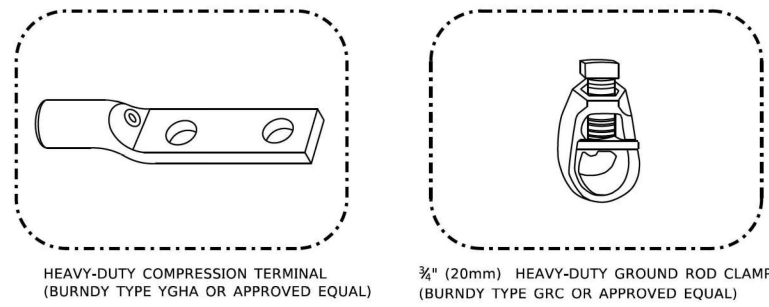
**EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL**  
(NOT TO SCALE)

NOTES:  
**GROUNDING SYSTEM**

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**MAST ARM POLE /POST-GROUNDING DETAIL**  
(NOT TO SCALE)

|                             |            |           |
|-----------------------------|------------|-----------|
| USER NAME = footernj        | DESIGNED - | REVISED - |
|                             | DRAWN -    | REVISED - |
| PLOT SCALE = 50.0000 ' / 1" | CHECKED -  | REVISED - |
| PLOT DATE = 3/4/2019        | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

|              |                      |                    |                  |              |
|--------------|----------------------|--------------------|------------------|--------------|
| F.A.<br>RTE. | SECTION              | COUNTY             | TOTAL<br>SHEETS  | SHEET<br>NO. |
| 326          | 2024-1052-N,C,SW,FL. | MCHENRY            | 941              | 738          |
| TS-05        |                      | CONTRACT NO. 62X94 |                  |              |
|              |                      | ILLINOIS           | FED. AID PROJECT |              |



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| CABLE SLACK LENGTH                                | FEET | METER |
|---------------------------------------------------|------|-------|
| HANDHOLE                                          | 6.5  | 2.0   |
| DOUBLE HANDHOLE                                   | 13.0 | 4.0   |
| SIGNAL POST                                       | 2.0  | 0.6   |
| MAST ARM                                          | 2.0  | 0.6   |
| CONTROLLER CABINET                                | 1.5  | 0.5   |
| FIBER OPTIC AT CABINET                            | 13.0 | 4.0   |
| ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION) | 1.5  | 0.5   |
| GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)     | 1.5  | 0.5   |
| GROUND CABLE (BETWEEN FRAME AND COVER)            | 5.0  | 1.6   |

CABLE SLACK

| VERTICAL CABLE LENGTH                                                             | FEET   | METER |
|-----------------------------------------------------------------------------------|--------|-------|
| MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD)                                     |        |       |
| (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)                   | 20.0+L | 6.0+L |
| BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)                                    | 13.0   | 4.0   |
| PEDESTRIAN PUSH BUTTON                                                            | 6.0    | 2.0   |
| SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP                                   | 13.5   | 4.1   |
| SERVICE INSTALLATION POLE MOUNT TO GROUND                                         | 13.5   | 4.1   |
| SERVICE INSTALLATION GROUND MOUNT                                                 | 6.0    | 2.0   |
| FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT) | 3.0    | 1.0   |

VERTICAL CABLE LENGTH

| FOUNDATION                                          | DEPTH        |
|-----------------------------------------------------|--------------|
| TYPE A - Signal Post                                | 4'-0" (1.2m) |
| TYPE C - CONTROLLER W/ UPS                          | 4'-0" (1.2m) |
| TYPE D - CONTROLLER                                 | 4'-0" (1.2m) |
| SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE | 4'-0" (1.2m) |

DEPTH OF FOUNDATION

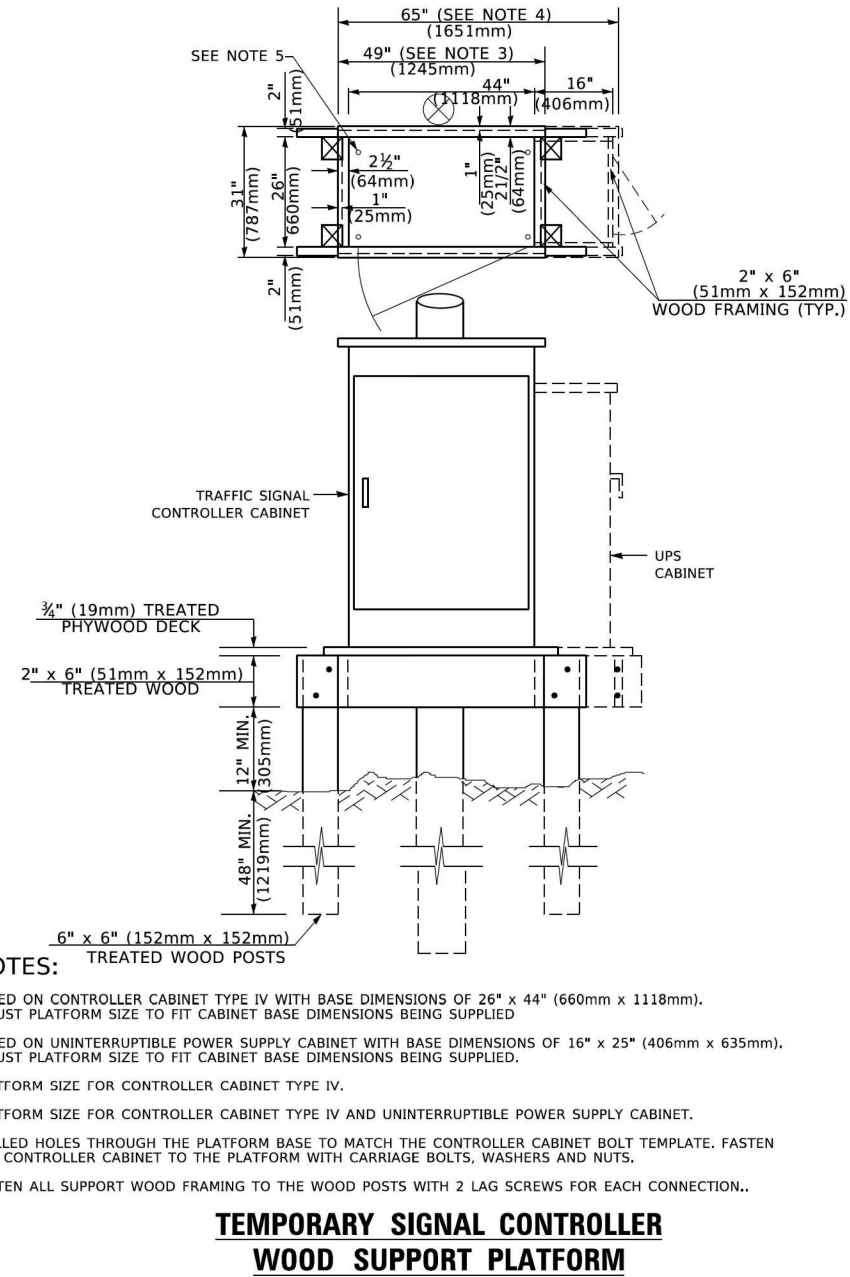
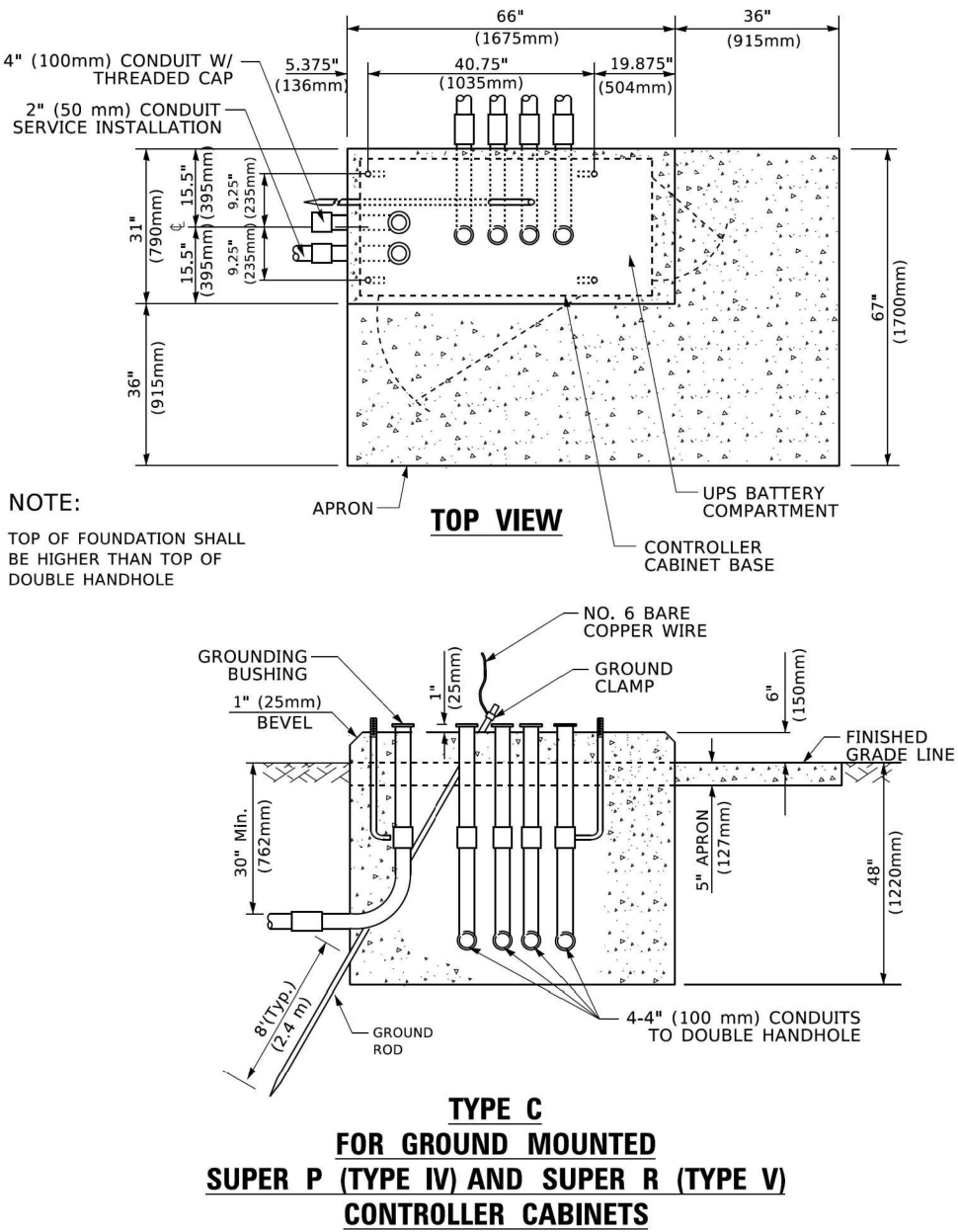
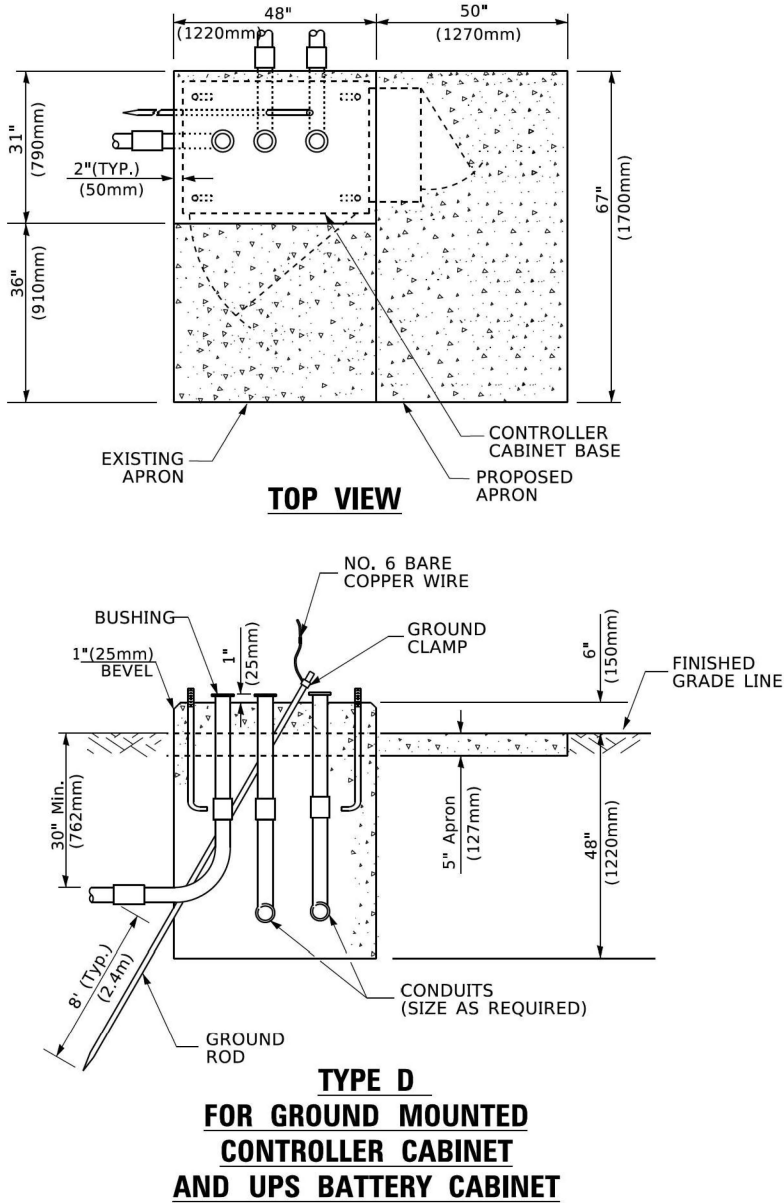
| Mast Arm Length                                                  | ① Foundation Depth | Foundation Diameter | Spiral Diameter | Quantity of Rebars | Size of Rebars |
|------------------------------------------------------------------|--------------------|---------------------|-----------------|--------------------|----------------|
| Less than 30' (9.1 m)                                            | 10'-0" (3.0 m)     | 30" (750mm)         | 24" (600mm)     | 8                  | 6(19)          |
| Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)  | 13'-6" (4.1 m)     | 30" (750mm)         | 24" (600mm)     | 8                  | 6(19)          |
|                                                                  | 11'-0" (3.4 m)     | 36" (900mm)         | 30" (750mm)     | 12                 | 7(22)          |
| Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m) | 13'-0" (4.0 m)     | 36" (900mm)         | 30" (750mm)     | 12                 | 7(22)          |
| Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)     | 15'-0" (4.6 m)     | 36" (900mm)         | 30" (750mm)     | 12                 | 7(22)          |
| Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m) | 21'-0" (6.4 m)     | 42" (1060mm)        | 36" (900mm)     | 16                 | 8(25)          |
| Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)     | 25'-0" (7.6 m)     | 42" (1060mm)        | 36" (900mm)     | 16                 | 8(25)          |

NOTES:

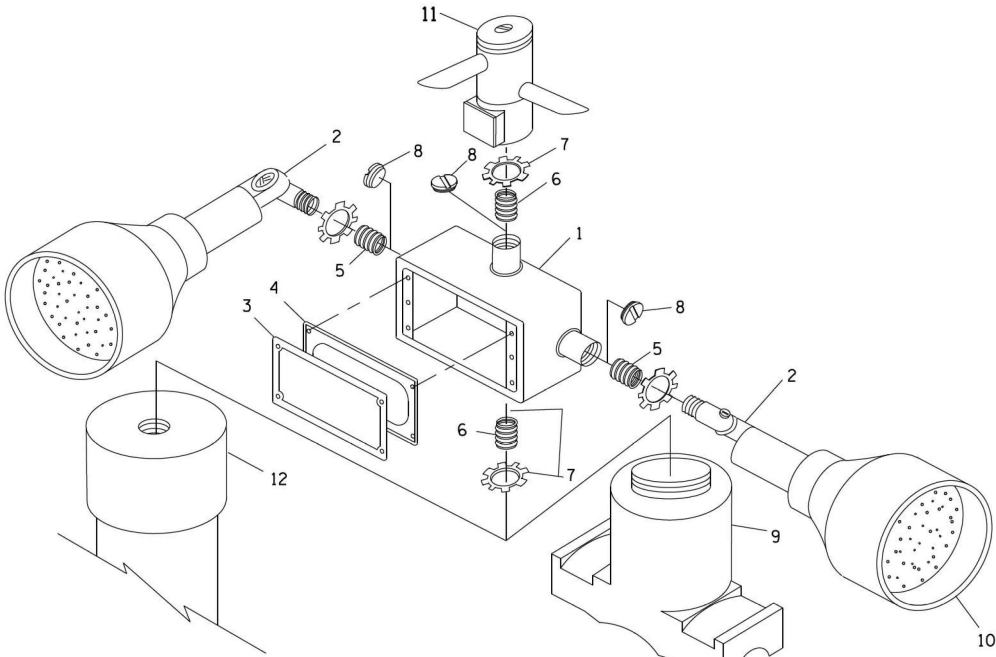
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

|                                                   |                                        |  |  |           |                     |                    |              |                             |
|---------------------------------------------------|----------------------------------------|--|--|-----------|---------------------|--------------------|--------------|-----------------------------|
| STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | DISTRICT ONE                           |  |  | F.A. RTE. | SECTION             | COUNTY             | TOTAL SHEETS | SHEET NO.                   |
|                                                   | STANDARD TRAFFIC SIGNAL DESIGN DETAILS |  |  |           | 2024-1052-N,C,SW,FL | MCHENRY            | 941          | 739                         |
|                                                   |                                        |  |  | TS-05     |                     | CONTRACT NO. 62X94 |              |                             |
|                                                   | SCALE: NONE                            |  |  | SHEET 5   | OF 7 SHEETS         | STA.               | TO STA.      | ILLINOIS   FED. AID PROJECT |



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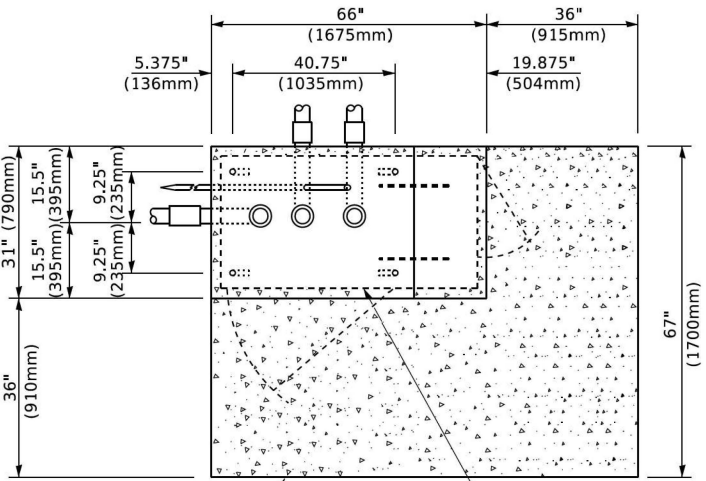
POST CAP MOUNT

MAST ARM MOUNT

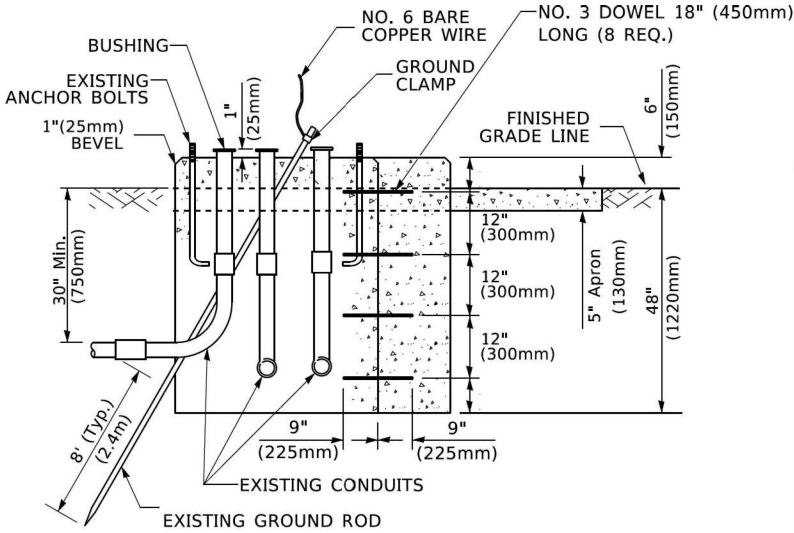
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION  
BEACON MOUNTING DETAIL

- NOTES:
1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
  2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
  3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH  
(NOT TO SCALE)



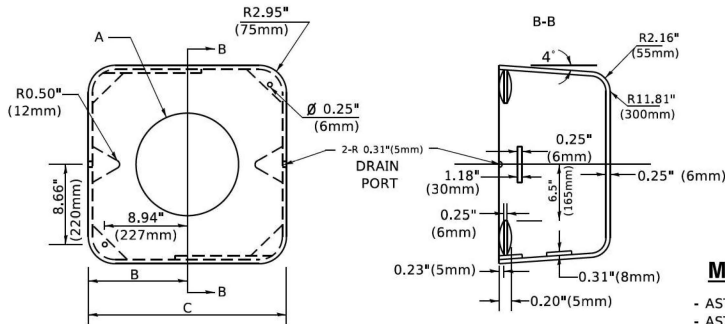
PROPOSED APRON  
TOP VIEW  
(NOT TO SCALE)  
CONTROLLER CABINET BASE



MODIFY EXISTING TYPE "D" FOUNDATION  
TO TYPE "C" FOUNDATION  
(NOT TO SCALE)

| ITEM NO. | IDENTIFICATION                              |
|----------|---------------------------------------------|
| 1        | OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) |
| 2        | LAMP HOLDER AND COVER                       |
| 3        | OUTLET BOX COVER                            |
| 4        | RUBBER COVER GASKET                         |
| 5        | REDUCING BUSHING                            |
| 6        | 3/4"(19 mm) CLOSE NIPPLE                    |
| 7        | 3/4"(19 mm) LOCKNUT                         |
| 8        | 3/4"(19 mm) HOLE PLUG                       |
| 9        | SADDLE BRACKET - GALV.                      |
| 10       | 6 WATT PAR 38 LED FLOOD LAMP                |
| 11       | DETECTOR UNIT                               |
| 12       | POST CAP [18 FT. (5.4 m) POST MIN.]         |

- NOTES:
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
  2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
  3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

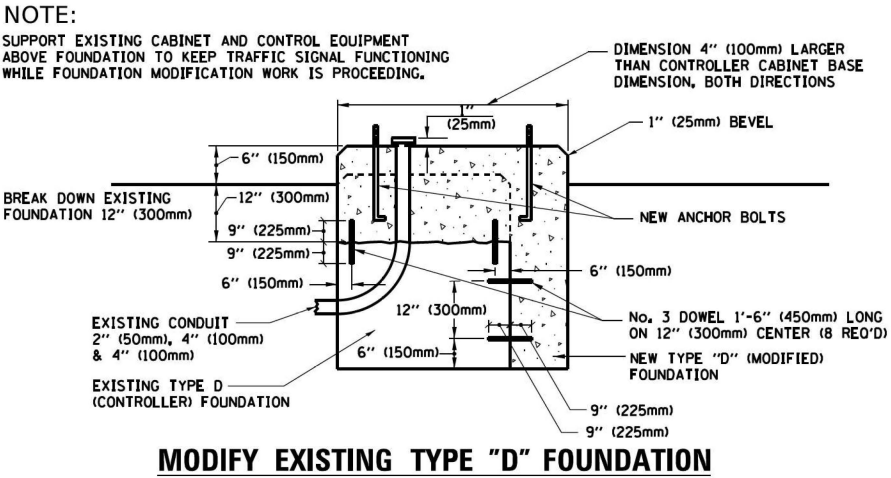


MATERIAL  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

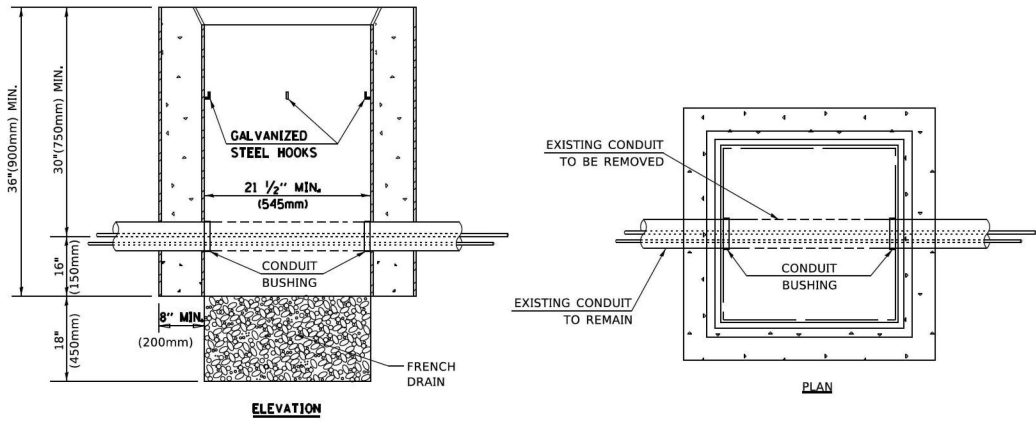
| A      | B             | C            | HEIGHT                   | WEIGHT          |
|--------|---------------|--------------|--------------------------|-----------------|
| VARIES | 9.5"(241mm)   | 19"(483mm)   | 7" (178mm) - 12" (300mm) | 53 lbs (24kg)   |
| VARIES | 10.75"(273mm) | 21.5"(546mm) | 7" (178mm) - 12" (300mm) | 68 lbs (31 kg)  |
| VARIES | 13.0"(330mm)  | 26"(660mm)   | 7" (178mm) - 12" (300mm) | 81 lbs (37 kg)  |
| VARIES | 18.5"(470mm)  | 37"(940mm)   | 7" (178mm) - 12" (300mm) | 126 lbs (57 kg) |

SHROUD

- NOTES:
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
  2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
  3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



MODIFY EXISTING TYPE "D" FOUNDATION



- NOTES:
1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
  2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

|            |                   |          |   |         |   |
|------------|-------------------|----------|---|---------|---|
| USER NAME  | footemj           | DESIGNED | - | REVISED | - |
| PLOT SCALE | = 50.0000 ' / 1". | DRAWN    | - | REVISED | - |
| PLOT DATE  | = 3/4/2019        | CHECKED  | - | REVISED | - |
|            |                   | DATE     | - | REVISED | - |

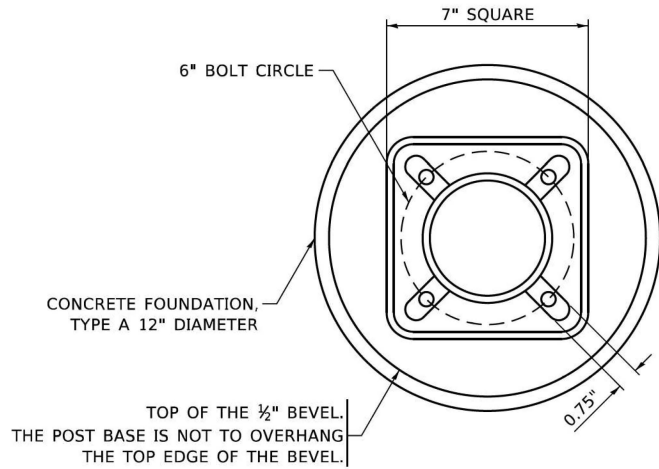
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

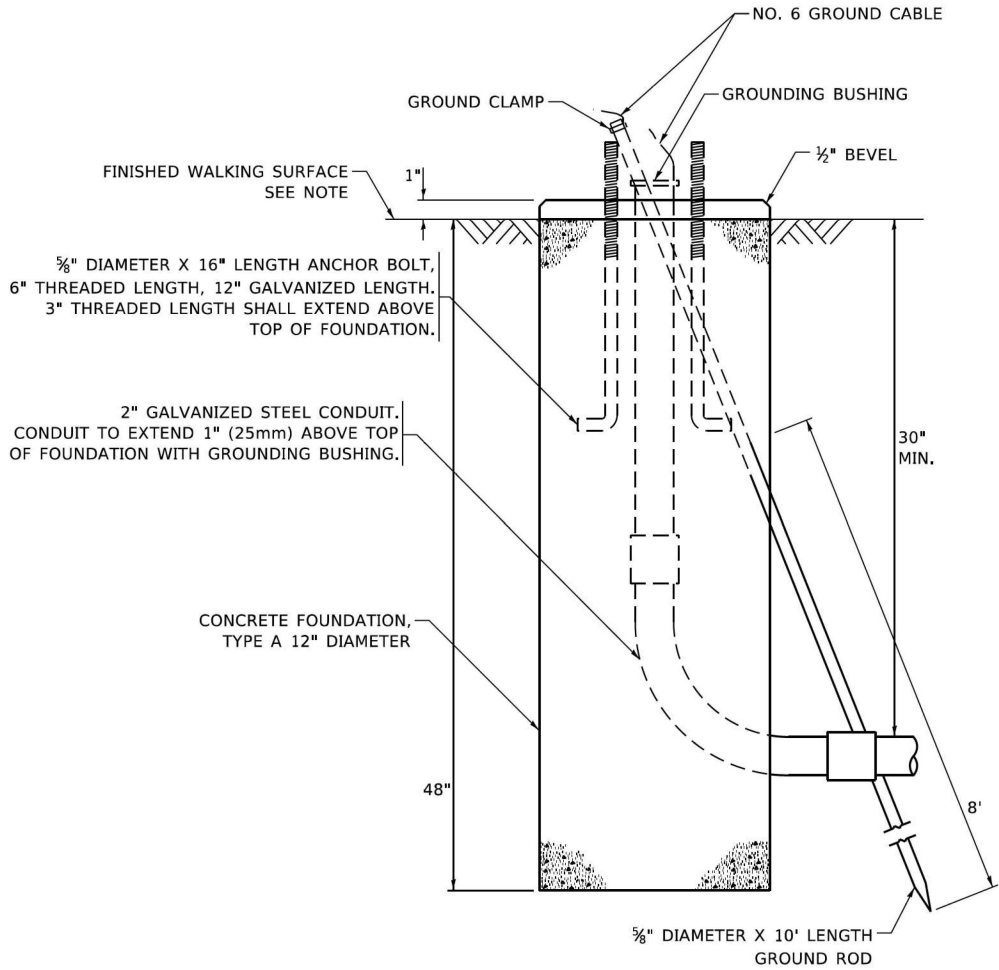
| F.A. RTE. | SECTION              | COUNTY             | TOTAL SHEETS | SHEET NO. |
|-----------|----------------------|--------------------|--------------|-----------|
| 326       | 2024-1052-N,C,SW,FL. | MCHENRY            | 941          | 740       |
| TS-05     |                      | CONTRACT NO. 62X94 |              |           |
| ILLINOIS  |                      | FED. AID PROJECT   |              |           |

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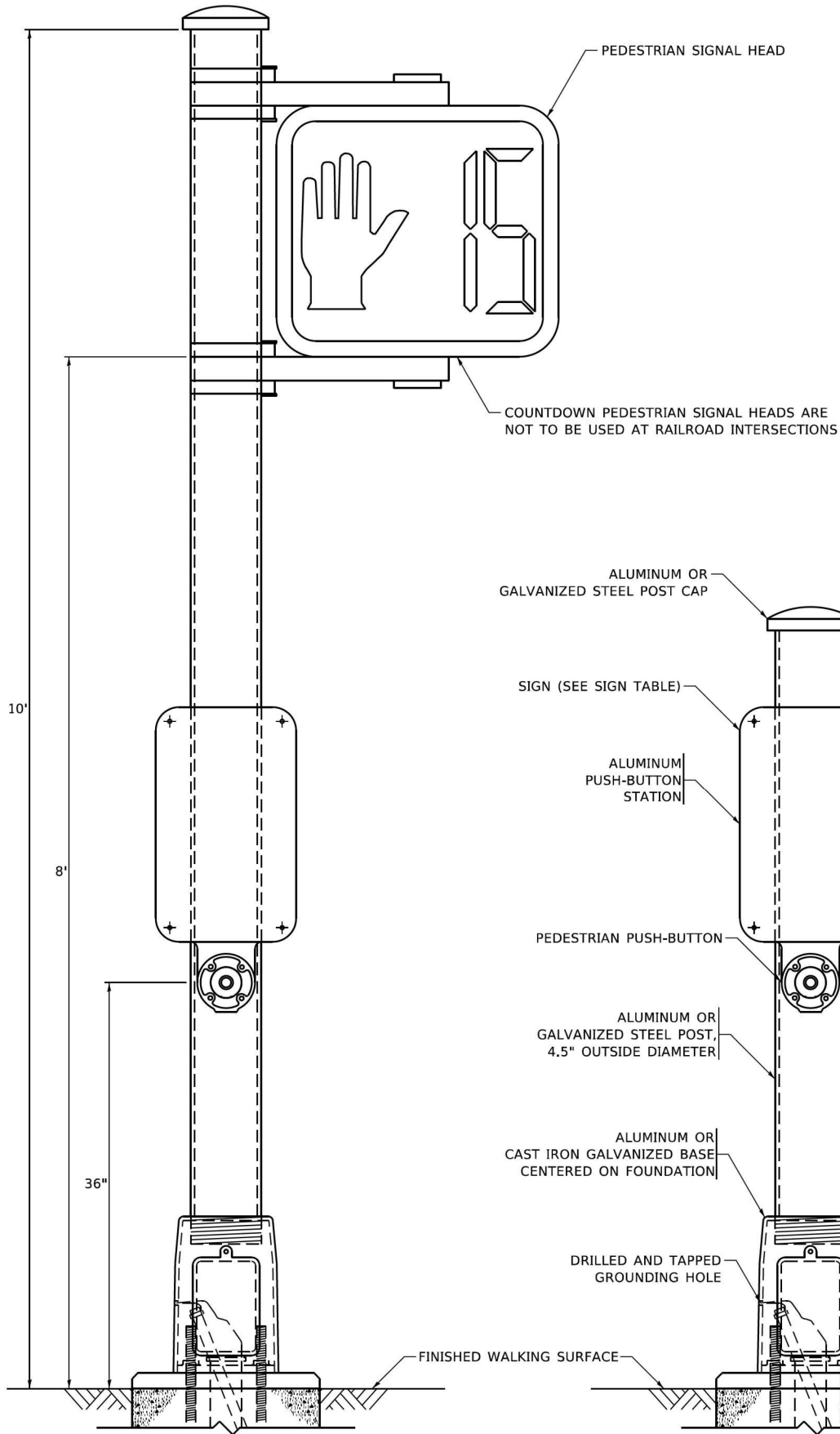


BOLT PATTERN

**NOTE:**  
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION,  
TYPE A 12-INCH DIAMETER



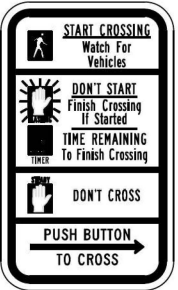
PEDESTRIAN SIGNAL POST, 10 FT.



R10-3b



R10-3d

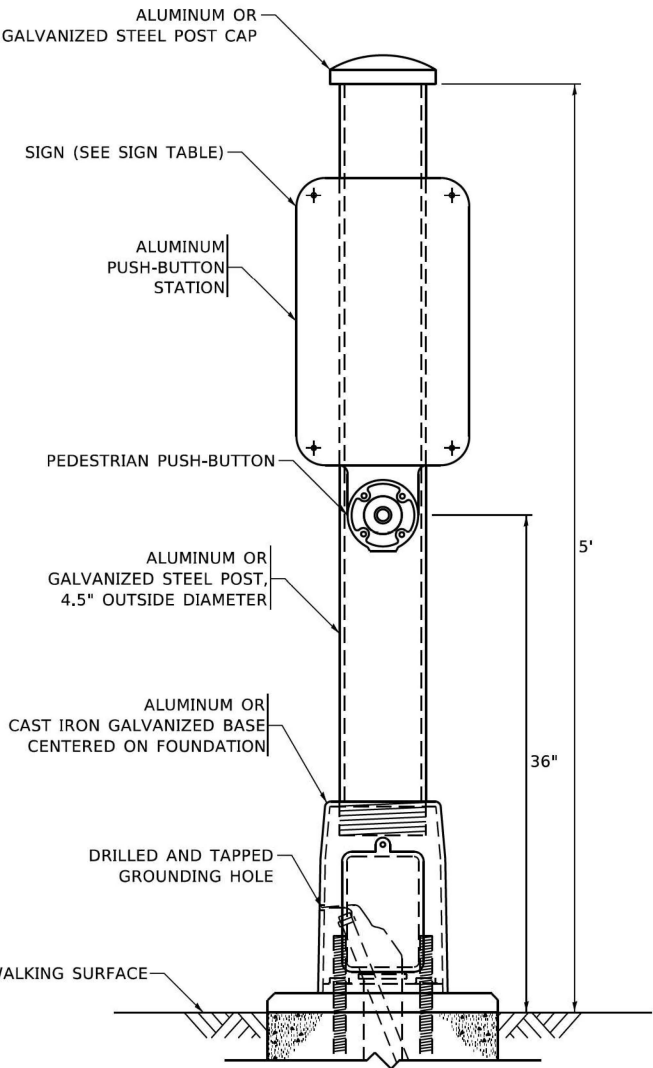


R10-3e

SIGN TABLE

| SIGN                   | DIMENSIONS |
|------------------------|------------|
| R10-3b (RAILROAD ONLY) | 9" X 12"   |
| R10-3d (RAILROAD ONLY) | 9" X 12"   |
| R10-3e                 | 9" X 12"   |

**NOTES:**  
1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.  
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.  
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.



PEDESTRIAN SIGNAL POST, 5 FT.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

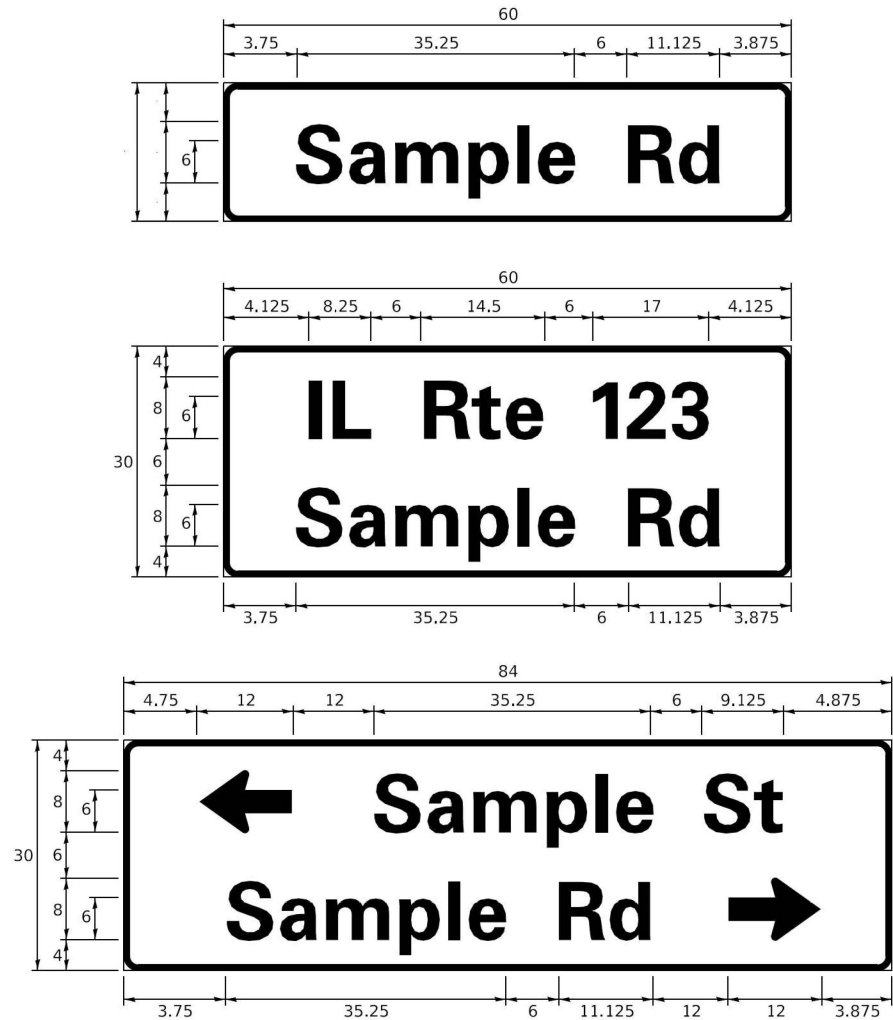
SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

| F.A. RTE. | SECTION              | COUNTY             | TOTAL SHEETS | SHEET NO. |
|-----------|----------------------|--------------------|--------------|-----------|
| 326       | 2024-1052-N,C,SW,FL. | MCHENRY            | 941          | 741       |
| TS-05     |                      | CONTRACT NO. 62X94 |              |           |
| ILLINOIS  |                      | FED. AID PROJECT   |              |           |



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SIGN PANEL – TYPE 1 OR TYPE 2



| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY. REQUIRED |
|---------------|--------------|-----------------|---------------|---------------|
| D OR C        | -            | 1 OR 2          | ZZ            | -             |

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

| NAME          | ABBREVIATION | WIDTH (INCH) |            |
|---------------|--------------|--------------|------------|
|               |              | SERIES "C"   | SERIES "D" |
| AVENUE        | Ave          | 15.000       | 18.250     |
| BOULEVARD     | Blvd         | 17.125       | 20.000     |
| CIRCLE        | Cir          | 11.125       | 13.000     |
| COURT         | Ct           | 8.250        | 9.625      |
| DRIVE         | Dr           | 8.625        | 10.125     |
| HIGHWAY       | Hwy          | 18.375       | 22.000     |
| ILLINOIS      | IL           | 7.000        | 8.250      |
| LANE          | Ln           | 9.125        | 10.750     |
| PARKWAY       | Pkwy         | 23.375       | 27.375     |
| PLACE         | Pl           | 7.125        | 7.750      |
| ROAD          | Rd           | 9.625        | 11.125     |
| ROUTE         | Rte          | 12.625       | 14.500     |
| STREET        | St           | 8.000        | 9.125      |
| TERRACE       | Ter          | 12.625       | 14.625     |
| TRAIL         | Tr           | 7.750        | 9.125      |
| UNITED STATES | US           | 10.375       | 12.250     |

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC  
MIDLOTHIAN, VA

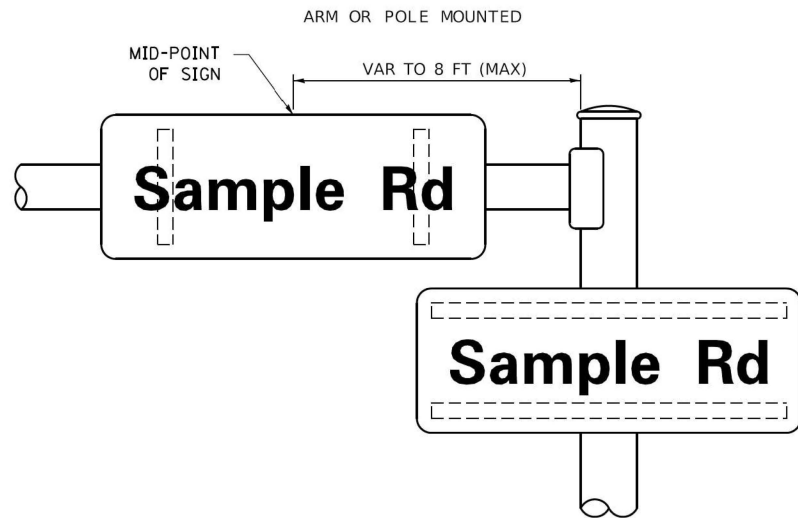
- WESTERN REMAC, INC.  
WOODRIDGE, IL

PARTS LISTING:

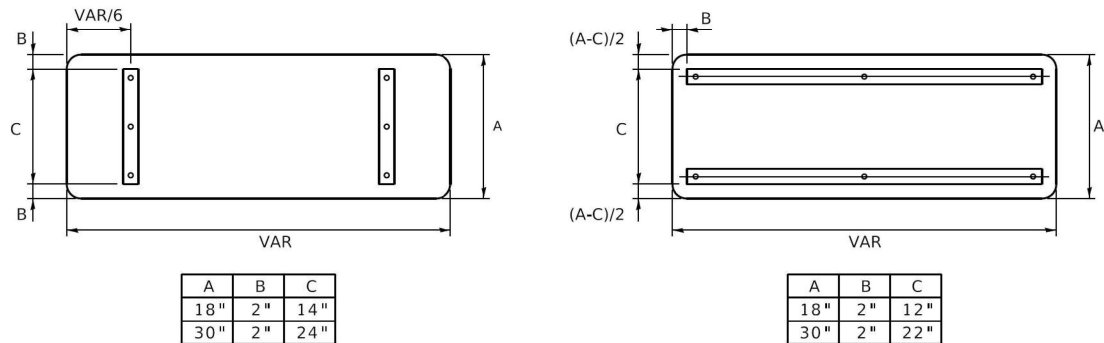
SIGN CHANNEL  
SIGN SCREWS  
PART #HPN053 (MED. CHANNEL)  
1/4" x 14 x 1" H.W.H. #3  
SELF TAPPING WITH NEOPRENE WASHER  
PART #HPN034 (UNIVERSAL)  
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

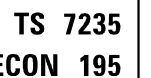
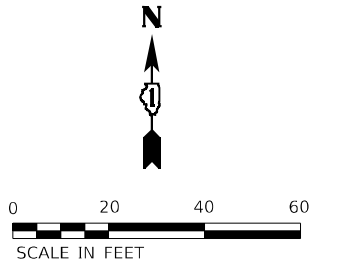
| FHWA SERIES "C" |                     |              |                      | FHWA SERIES "D" |                     |              |                      |
|-----------------|---------------------|--------------|----------------------|-----------------|---------------------|--------------|----------------------|
| CHARACTER       | LEFT SPACING (INCH) | WIDTH (INCH) | RIGHT SPACING (INCH) | CHARACTER       | LEFT SPACING (INCH) | WIDTH (INCH) | RIGHT SPACING (INCH) |
| A               | 0.240               | 5.122        | 0.240                | A               | 0.240               | 6.804        | 0.240                |
| B               | 0.880               | 4.482        | 0.480                | B               | 0.960               | 5.446        | 0.400                |
| C               | 0.720               | 4.482        | 0.720                | C               | 0.800               | 5.446        | 0.800                |
| D               | 0.880               | 4.482        | 0.720                | D               | 0.960               | 5.446        | 0.800                |
| E               | 0.880               | 4.082        | 0.480                | E               | 0.960               | 4.962        | 0.400                |
| F               | 0.880               | 4.082        | 0.240                | F               | 0.960               | 4.962        | 0.240                |
| G               | 0.720               | 4.482        | 0.720                | G               | 0.800               | 5.446        | 0.800                |
| H               | 0.880               | 4.482        | 0.880                | H               | 0.960               | 5.446        | 0.960                |
| I               | 0.880               | 1.120        | 0.880                | I               | 0.960               | 1.280        | 0.960                |
| J               | 0.240               | 4.082        | 0.880                | J               | 0.240               | 5.122        | 0.960                |
| K               | 0.880               | 4.482        | 0.480                | K               | 0.960               | 5.604        | 0.400                |
| L               | 0.880               | 4.082        | 0.240                | L               | 0.960               | 4.962        | 0.240                |
| M               | 0.880               | 5.284        | 0.880                | M               | 0.960               | 6.244        | 0.960                |
| N               | 0.880               | 4.482        | 0.880                | N               | 0.960               | 5.446        | 0.960                |
| O               | 0.720               | 4.722        | 0.720                | O               | 0.800               | 5.684        | 0.800                |
| P               | 0.880               | 4.482        | 0.720                | P               | 0.960               | 5.446        | 0.240                |
| Q               | 0.720               | 4.722        | 0.720                | Q               | 0.800               | 5.684        | 0.800                |
| R               | 0.880               | 4.482        | 0.480                | R               | 0.960               | 5.446        | 0.400                |
| S               | 0.480               | 4.482        | 0.480                | S               | 0.400               | 5.446        | 0.400                |
| T               | 0.240               | 4.082        | 0.240                | T               | 0.240               | 4.962        | 0.240                |
| U               | 0.880               | 4.482        | 0.880                | U               | 0.960               | 5.446        | 0.960                |
| V               | 0.240               | 4.962        | 0.240                | V               | 0.240               | 6.084        | 0.240                |
| W               | 0.240               | 6.084        | 0.240                | W               | 0.240               | 7.124        | 0.240                |
| X               | 0.240               | 4.722        | 0.240                | X               | 0.400               | 5.446        | 0.400                |
| Y               | 0.240               | 5.122        | 0.240                | Y               | 0.240               | 6.884        | 0.240                |
| Z               | 0.480               | 4.482        | 0.480                | Z               | 0.400               | 5.446        | 0.400                |
| a               | 0.320               | 3.842        | 0.640                | a               | 0.400               | 4.562        | 0.720                |
| b               | 0.720               | 4.082        | 0.480                | b               | 0.800               | 4.802        | 0.480                |
| c               | 0.480               | 4.002        | 0.240                | c               | 0.480               | 4.722        | 0.240                |
| d               | 0.480               | 4.082        | 0.720                | d               | 0.480               | 4.802        | 0.800                |
| e               | 0.480               | 4.082        | 0.320                | e               | 0.480               | 4.722        | 0.320                |
| f               | 0.320               | 2.480        | 0.160                | f               | 0.320               | 2.882        | 0.160                |
| g               | 0.480               | 4.082        | 0.720                | g               | 0.480               | 4.802        | 0.800                |
| h               | 0.720               | 4.082        | 0.640                | h               | 0.800               | 4.722        | 0.720                |
| i               | 0.720               | 1.120        | 0.720                | i               | 0.800               | 1.280        | 0.800                |
| j               | 0.000               | 2.320        | 0.720                | j               | 0.000               | 2.642        | 0.800                |
| k               | 0.720               | 4.322        | 0.160                | k               | 0.800               | 5.122        | 0.160                |
| l               | 0.720               | 1.120        | 0.720                | l               | 0.800               | 1.280        | 0.800                |
| m               | 0.720               | 6.724        | 0.640                | m               | 0.800               | 7.926        | 0.720                |
| n               | 0.720               | 4.082        | 0.640                | n               | 0.800               | 4.722        | 0.720                |
| o               | 0.480               | 4.082        | 0.480                | o               | 0.480               | 4.882        | 0.480                |
| p               | 0.720               | 4.082        | 0.480                | p               | 0.800               | 4.802        | 0.480                |
| q               | 0.480               | 4.082        | 0.720                | q               | 0.480               | 4.802        | 0.800                |
| r               | 0.720               | 2.642        | 0.160                | r               | 0.800               | 3.042        | 0.160                |
| s               | 0.320               | 3.362        | 0.240                | s               | 0.320               | 3.762        | 0.240                |
| t               | 0.080               | 2.882        | 0.080                | t               | 0.080               | 3.202        | 0.080                |
| u               | 0.640               | 4.082        | 0.720                | u               | 0.720               | 4.722        | 0.800                |
| v               | 0.160               | 4.722        | 0.160                | v               | 0.160               | 5.684        | 0.160                |
| w               | 0.160               | 7.524        | 0.160                | w               | 0.160               | 9.046        | 0.160                |
| x               | 0.000               | 5.202        | 0.000                | x               | 0.000               | 6.244        | 0.000                |
| y               | 0.160               | 4.962        | 0.160                | y               | 0.160               | 6.004        | 0.160                |
| z               | 0.240               | 3.362        | 0.240                | z               | 0.240               | 4.002        | 0.240                |
| 1               | 0.720               | 1.680        | 0.880                | 1               | 0.800               | 2.000        | 0.960                |
| 2               | 0.480               | 4.482        | 0.480                | 2               | 0.800               | 5.446        | 0.800                |
| 3               | 0.480               | 4.482        | 0.480                | 3               | 1.440               | 5.446        | 0.800                |
| 4               | 0.240               | 4.962        | 0.720                | 4               | 0.160               | 6.004        | 0.960                |
| 5               | 0.480               | 4.482        | 0.480                | 5               | 0.800               | 5.446        | 0.800                |
| 6               | 0.720               | 4.482        | 0.720                | 6               | 0.800               | 5.446        | 0.800                |
| 7               | 0.240               | 4.482        | 0.720                | 7               | 0.560               | 5.446        | 0.560                |
| 8               | 0.480               | 4.482        | 0.480                | 8               | 0.800               | 5.446        | 0.800                |
| 9               | 0.480               | 4.482        | 0.480                | 9               | 0.800               | 5.446        | 0.800                |
| 0               | 0.720               | 4.722        | 0.720                | 0               | 0.800               | 5.684        | 0.800                |
| -               | 0.240               | 2.802        | 0.240                | -               | 0.240               | 2.802        | 0.240                |

|                                                                                                                                               |                              |  |                   |                         |                                                   |                                                    |  |  |                      |         |                    |              |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|-------------------|-------------------------|---------------------------------------------------|----------------------------------------------------|--|--|----------------------|---------|--------------------|--------------|-----------|
| MODEL Default:<br>FILE NAME: p:\01084181\DOT\Illinois\gov\INDOT\Documents\DOT_Offices\Bldgct_1\Projects\Bldgct_2\23ACADData\CAD\sheetst02.dgn | USER NAME = [footem]         |  | DESIGNED - LP/IP  | REVISED - LP 07/01/2015 | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | DISTRICT ONE<br>MAST ARM MOUNTED STREET NAME SIGNS |  |  | F.A. RTE.            | SECTION | COUNTY             | TOTAL SHEETS | SHEET NO. |
|                                                                                                                                               | DRAWN - LP                   |  | CHECKED - IP      | REVISED -               |                                                   | SCALE: SHEET OF SHEETS STA. TO STA.                |  |  | 2024-1052-N.C.SW.FL. |         | MCHENRY            | 941          | 742       |
|                                                                                                                                               | PLOT SCALE = 50.0000 ' / 1". |  | DATE - 10/01/2014 | REVISED -               |                                                   |                                                    |  |  | TS-02                |         | CONTRACT NO. 62X94 |              |           |
|                                                                                                                                               | PLOT DATE = 3/4/2019         |  |                   |                         |                                                   |                                                    |  |  | ILLINOIS             |         | FED. AID PROJECT   |              |           |

(A)

LEFT ON  
GREEN  
ARROW  
ONLY

R10-5 SIGN



MODEL: Default  
FILE NAME: pw:\account-na-pw,bentley.com:AECOM DS21 NA 2020\Documents\60632011-IL-47900-CAD\910 CAD\03 SHEETS\Traffic Signal\IL-47 US-14 Ram & Temp-2.dgn



|                              |                   |
|------------------------------|-------------------|
| USER NAME = nsalehian        | DESIGNED - NS     |
|                              | DRAWN - NS        |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - TS      |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 |

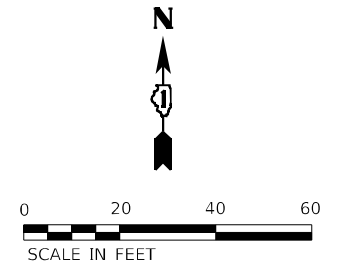
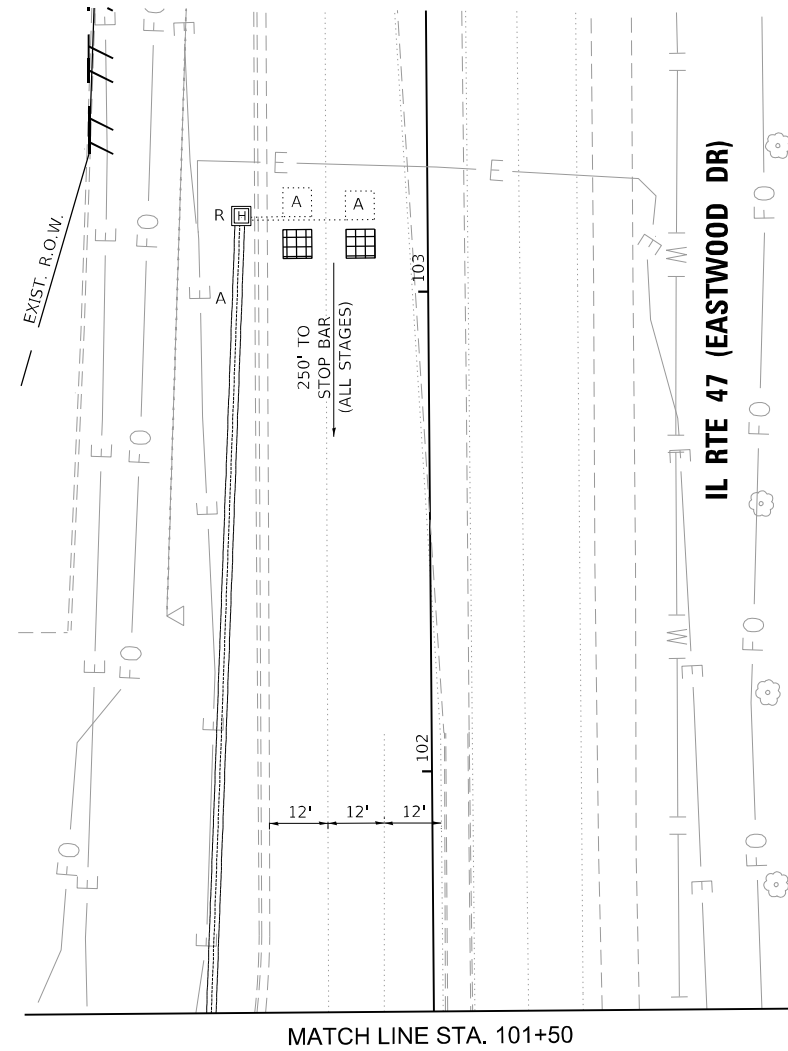
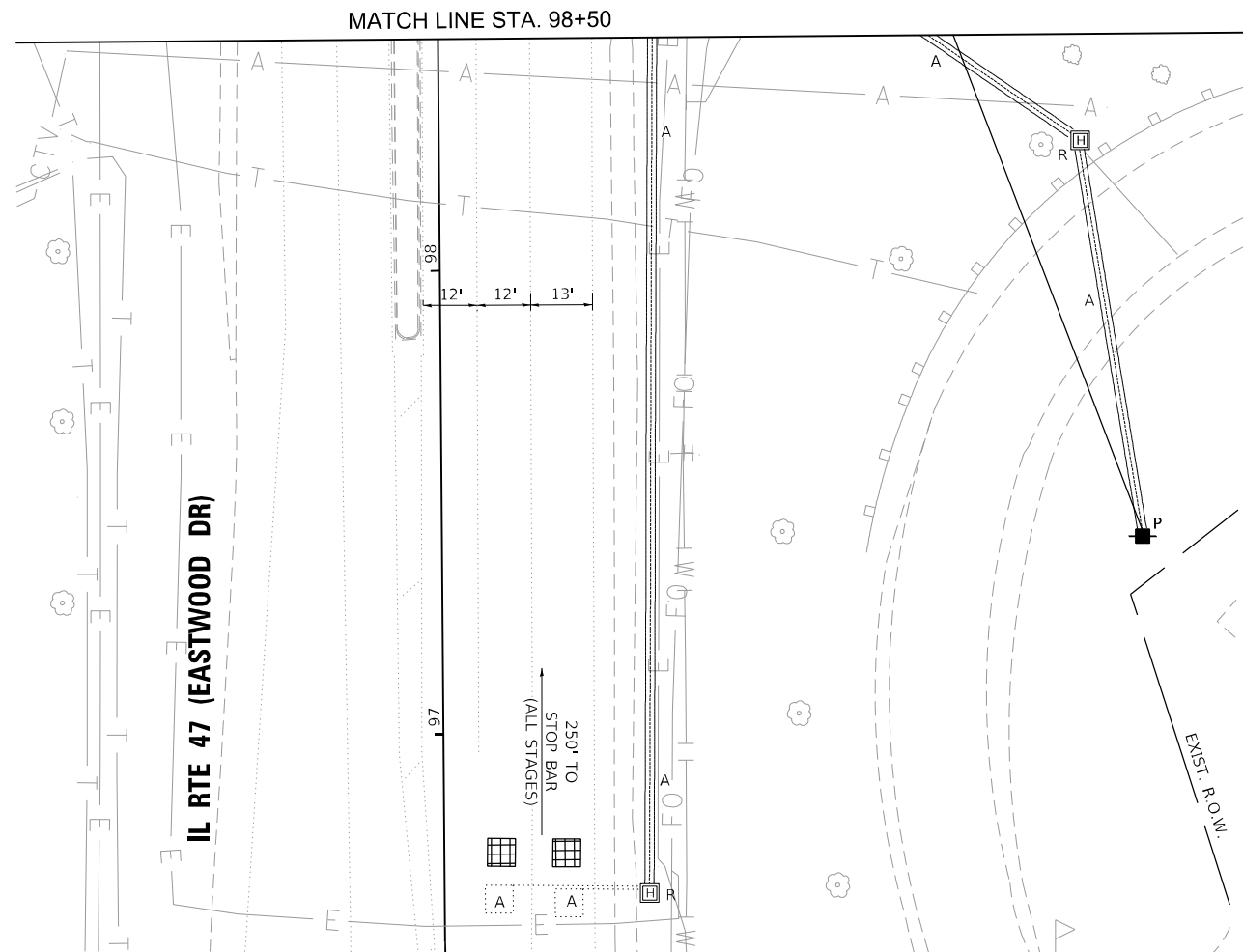
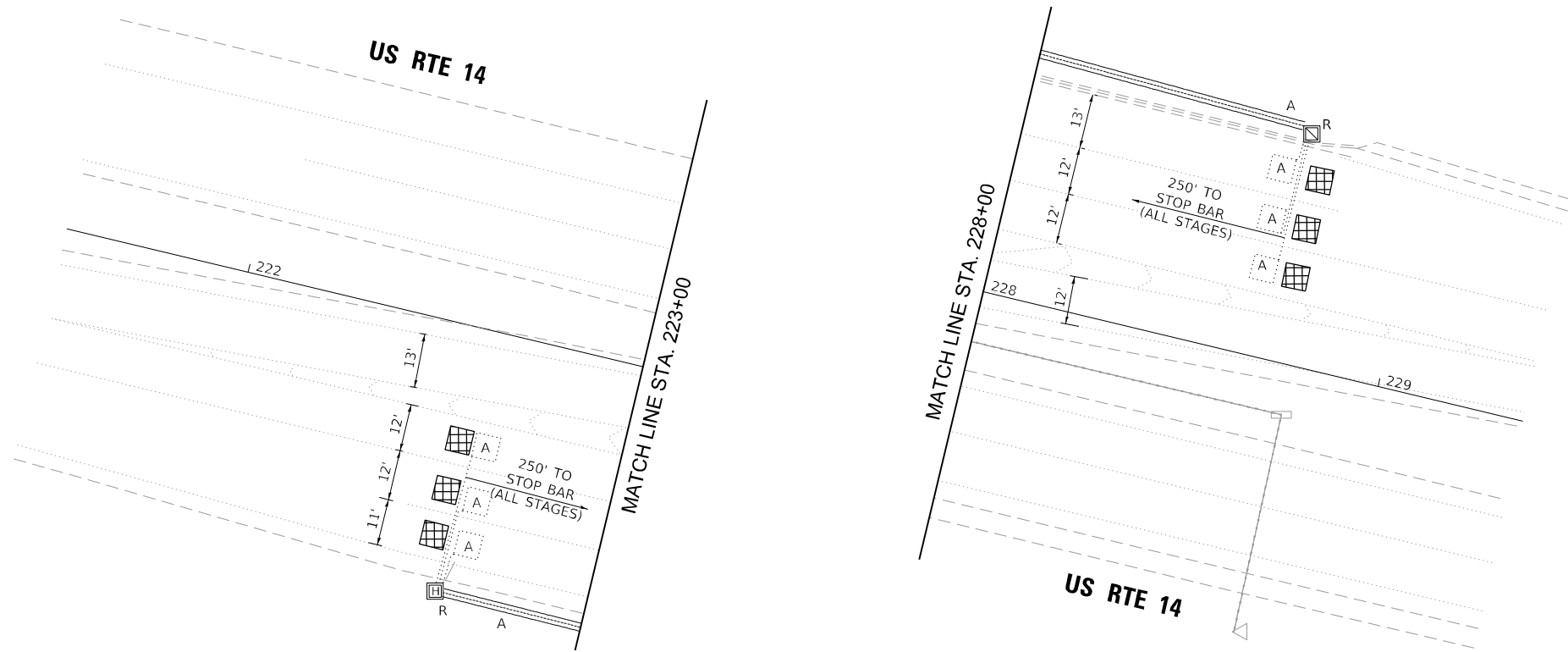
|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND  
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
IL RTE 47 (EASTWOOD DR) AND US RTE 14**

|        |       |    |        |      |         |
|--------|-------|----|--------|------|---------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
|--------|-------|----|--------|------|---------|

|                |                      |                    |                 |              |
|----------------|----------------------|--------------------|-----------------|--------------|
| F.A.P.<br>RTE. | SECTION              | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |
| 326            | 2024-1052-N,C,SW,FL. | MCHENRY            | 941             | 744          |
|                |                      | CONTRACT NO. 62X94 |                 |              |
| ILLINOIS       |                      | FED. AID PROJECT   |                 |              |

TS 7235  
ECON 195

MODEL: Default  
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|            |                   |            |            |           |  |
|------------|-------------------|------------|------------|-----------|--|
| USER NAME  | = nsalehian       | DESIGNED - | NS         | REVISED - |  |
| DRAWN -    | NS                | REVISED -  |            |           |  |
| PLOT SCALE | = 40,0000 ' / in. | CHECKED -  | TS         | REVISED - |  |
| PLOT DATE  | = 2/6/2025        | DATE -     | 02/06/2025 | REVISED - |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – PRESTAGE B  
IL RTE 47 (EASTWOOD DR) AND US RTE 14

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 745       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

SIGN LEGEND

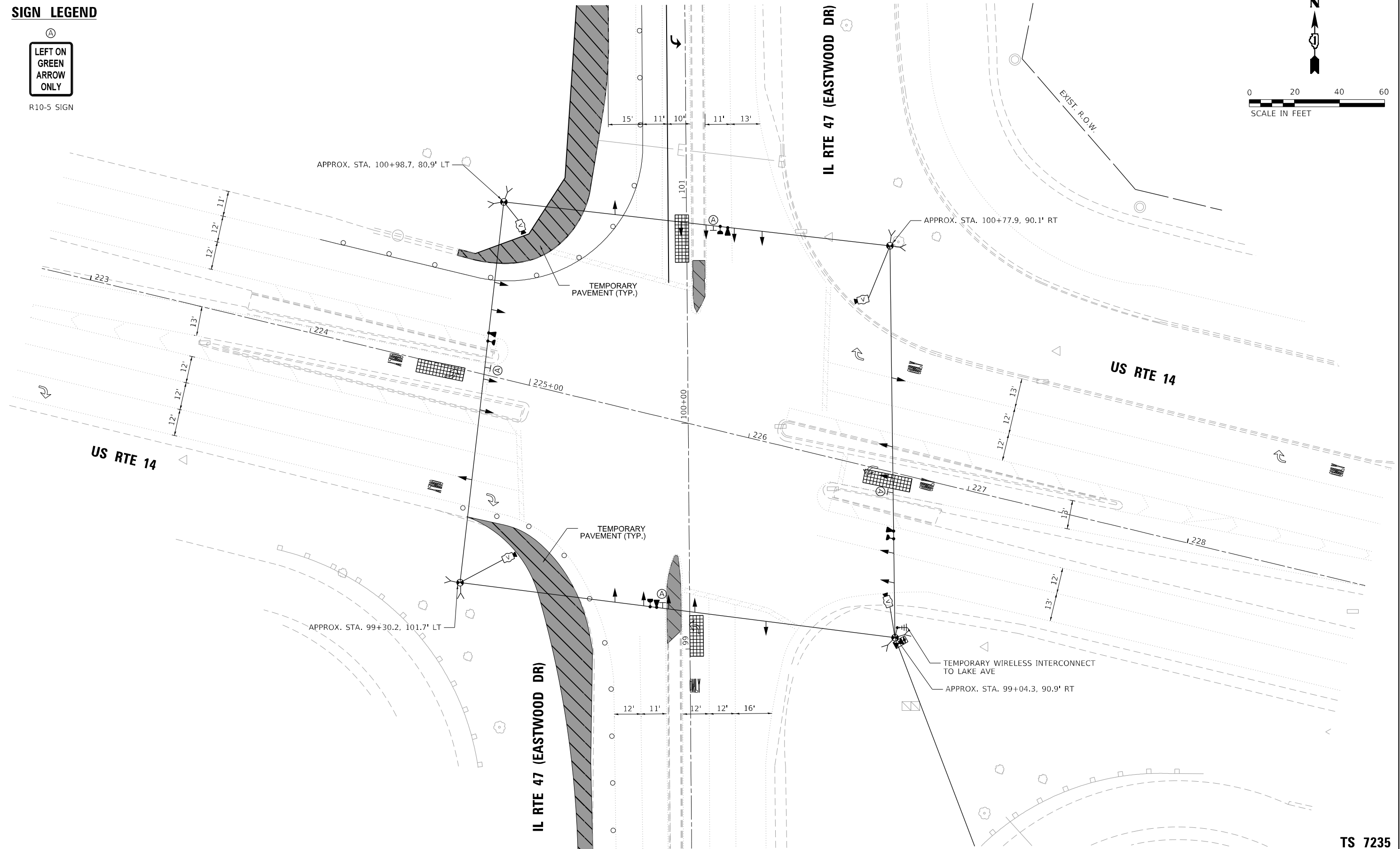


LEFT ON  
GREEN  
ARROW  
ONLY

R10-5 SIGN



0 20 40 60  
SCALE IN FEET



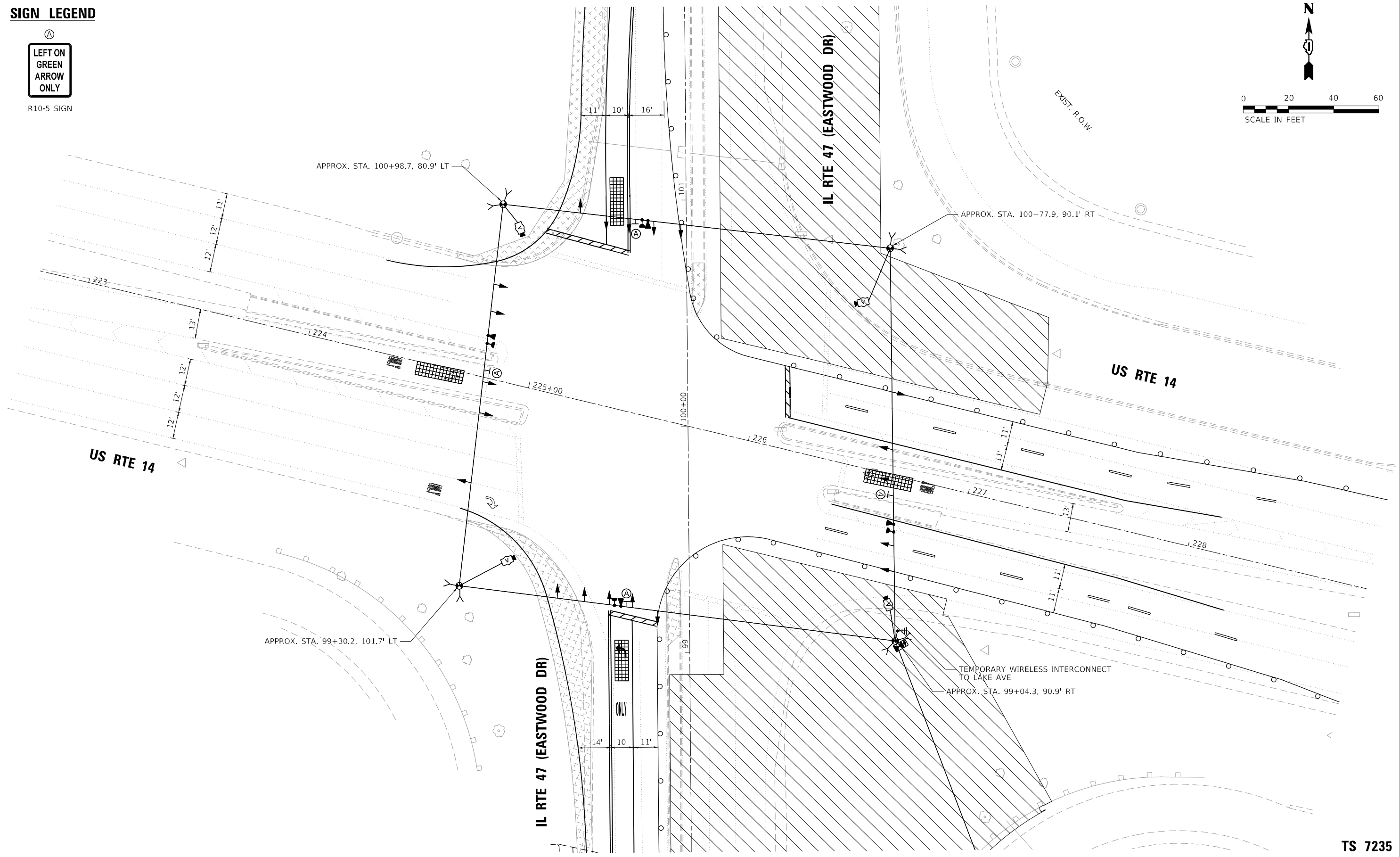
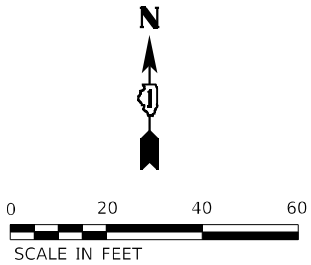
TS 7235  
ECON 195

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SIGN LEGEND



R10-5 SIGN



**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| DRAWN - NS                   | REVISED -         |           |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 1A & 1B  
IL RTE 47 (EASTWOOD DR) AND US RTE 14

|        |       |    |        |      |         |
|--------|-------|----|--------|------|---------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
|--------|-------|----|--------|------|---------|

| F.A.P. RTE.        | SECTION              | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|--------------------|----------------------|----------|------------------|-----------|
| 326                | 2024-1052-N,C,SW,FL. | MCHENRY  | 941              | 746       |
| CONTRACT NO. 62X94 |                      |          |                  |           |
|                    |                      | ILLINOIS | FED. AID PROJECT |           |

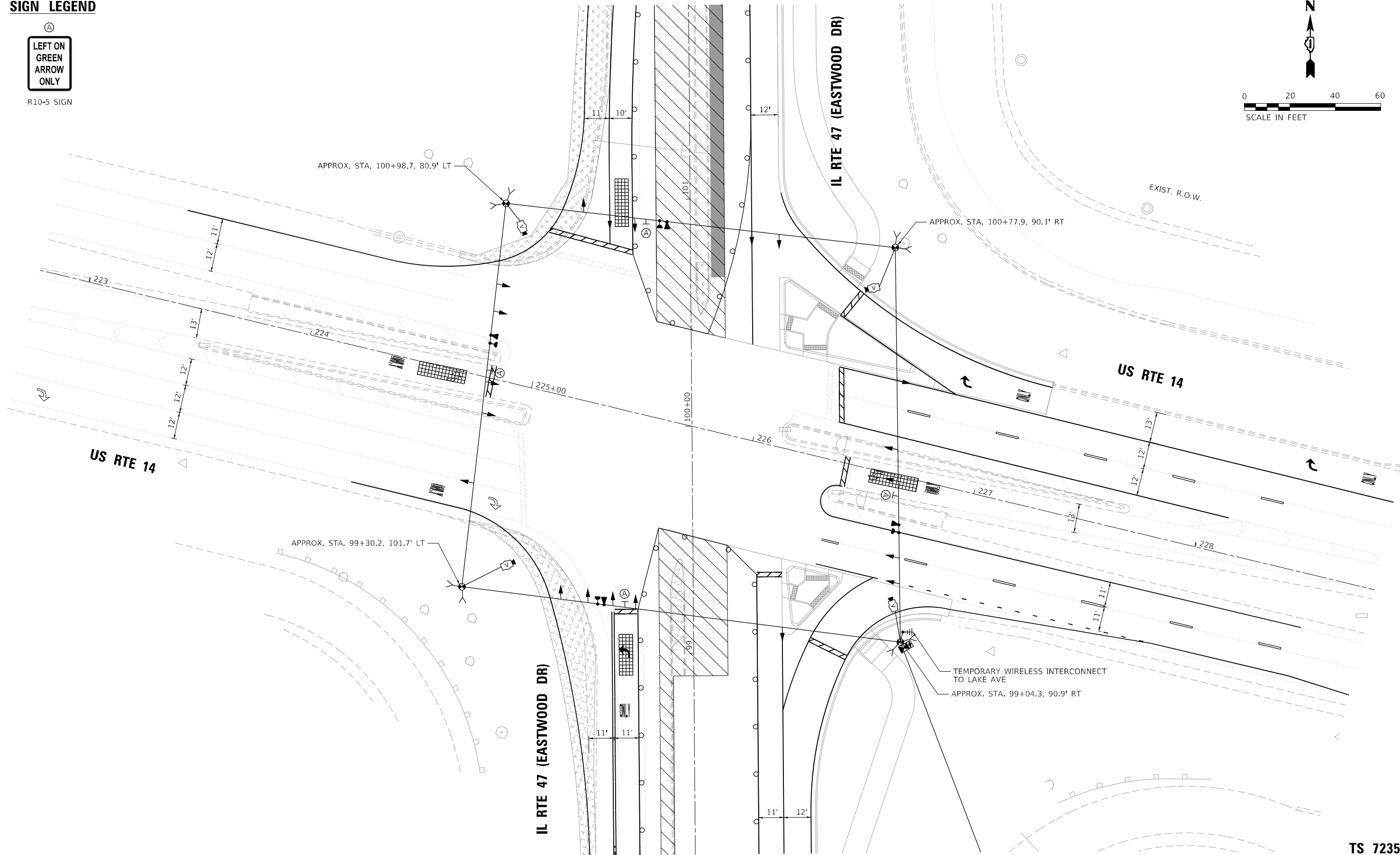
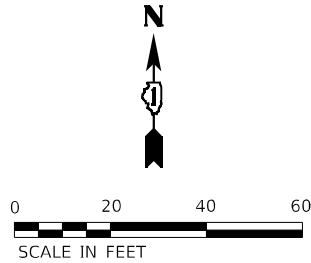
TS 7235  
ECON 195

MODEL: Default  
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SIGN LEGEND



R10-5 SIGN



|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| DRAWN - NS                   | REVISED -         |           |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 1C  
IL RTE 47 (EASTWOOD DR) AND US RTE 14

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.        | SECTION              | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|--------------------|----------------------|----------|------------------|-----------|
| 326                | 2024-1052-N,C,SW,FL. | MCHENRY  | 941              | 747       |
| CONTRACT NO. 62X94 |                      |          |                  |           |
|                    |                      | ILLINOIS | FED. AID PROJECT |           |

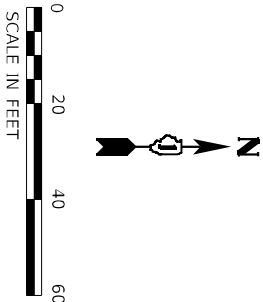
TS 7235  
ECON 195



SIGN LEGEND



R10-5 SIGN



MODEL: Default  
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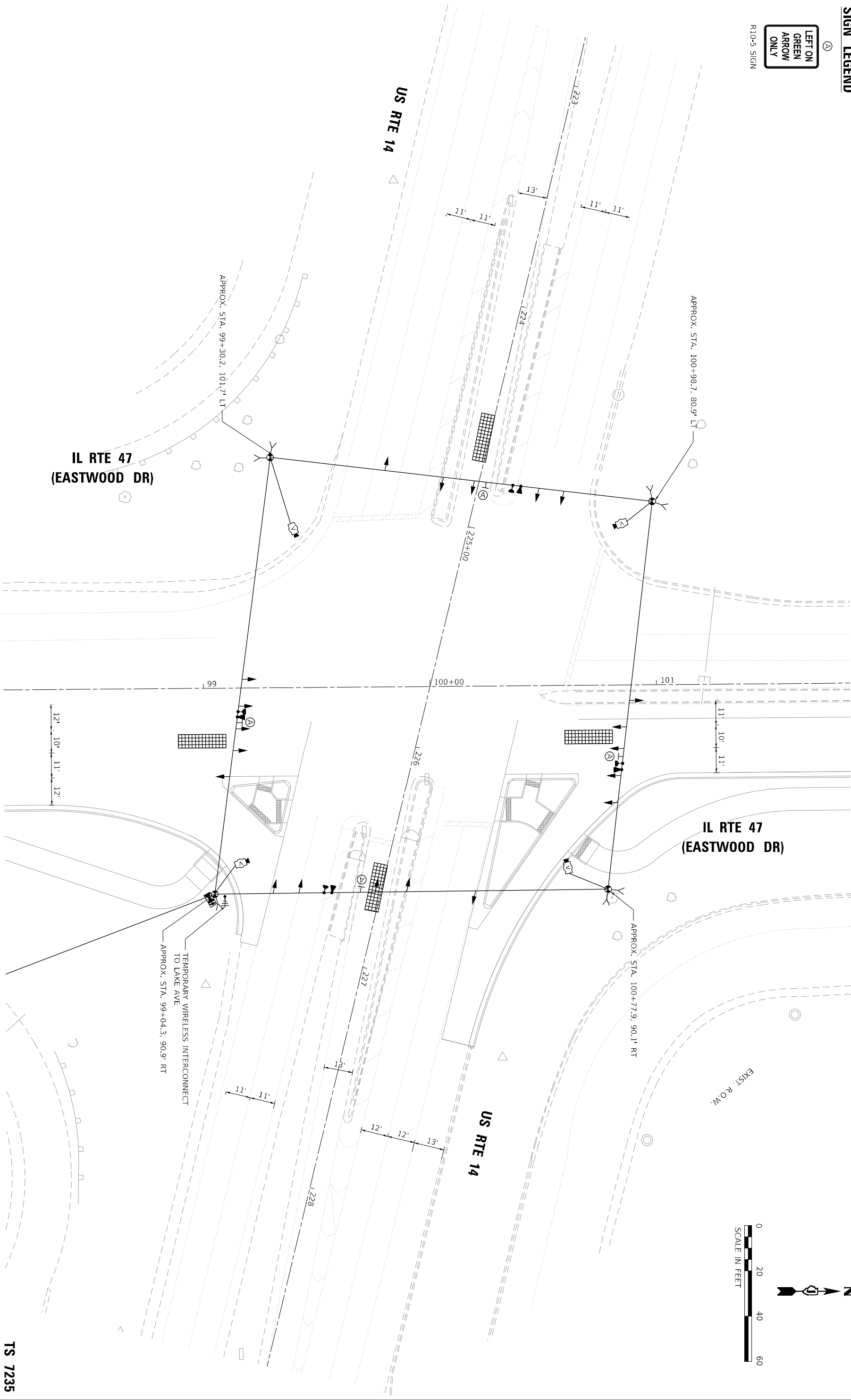
|                                                                                             |               |                        |
|---------------------------------------------------------------------------------------------|---------------|------------------------|
| <br>ATLAS TECHNICAL CONSULTANTS, LLC<br>100 S. WACKER DRIVE, SUITE 400<br>CHICAGO, IL 60606 | USER NAME     | = tsb@tch.com          |
|                                                                                             | DESIGNED      | - NS                   |
|                                                                                             | DRAWN         | - NS                   |
|                                                                                             | PLotted SCALE | = 40.0/000' = 1" = 40' |
|                                                                                             | CHECKED       | - TS                   |
|                                                                                             | DATE          | - 02/06/2025           |
|                                                                                             | REVISiD       | -                      |
|                                                                                             | REVISiD       | -                      |
|                                                                                             | REVISiD       | -                      |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 2A & 2B  
IL RTE 47 (EASTWOOD DR) AND IL RTE 47

|             |                         |                  |                    |
|-------------|-------------------------|------------------|--------------------|
| F&P<br>RTE. | SECTION                 | COUNTY           | TOTAL SHEET<br>NO. |
| 326         | 2024-1052-N.C.S.W./E.L. | MCHENRY          | 941 748            |
| ILLINOIS    |                         | FED. AID PROJECT | CONTRACT NO. 62X94 |

TS 7235  
ECON 195



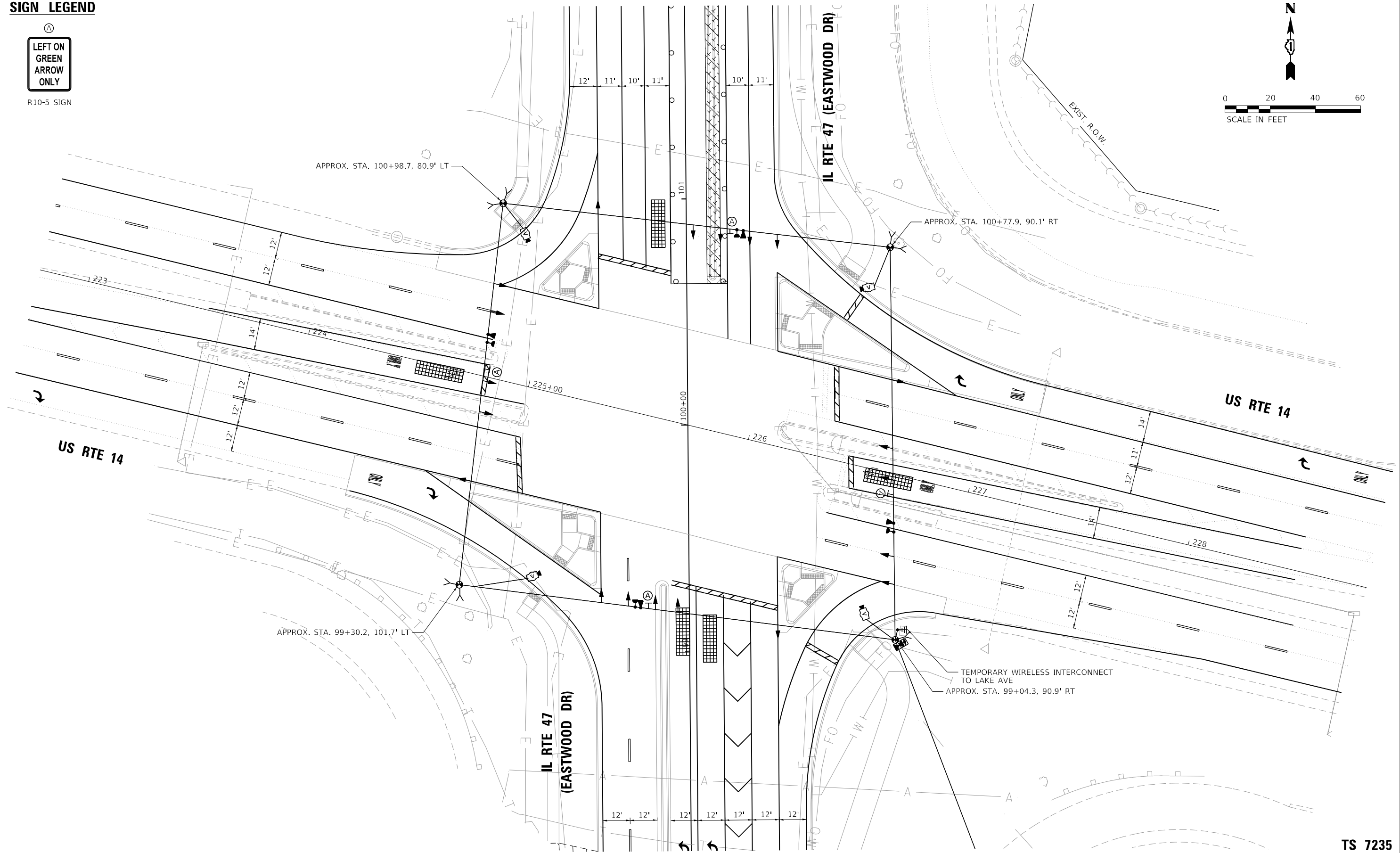
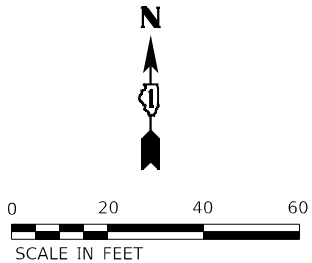


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SIGN LEGEND



R10-5 SIGN



**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| DRAWN - NS                   | REVISED -         |           |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 3  
IL RTE 47 (EASTWOOD DR) AND US RTE 14

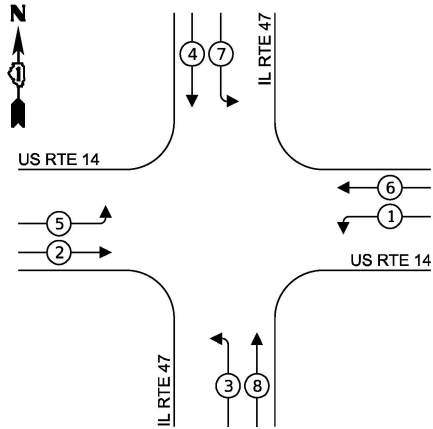
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 749       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 7235  
ECON 195

MODEL: Default  
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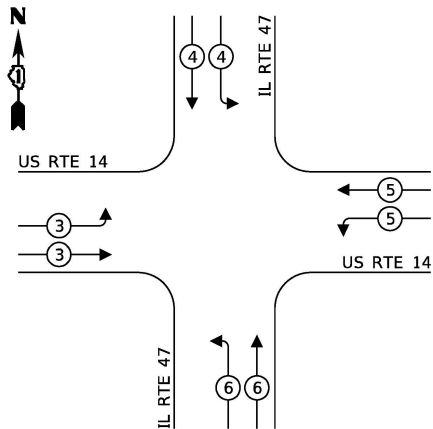
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← \* → PROTECTED PHASE
- ← - \* - → PROTECTED/PERMITTED PHASE
- ← \* → PEDESTRIAN PHASE
- ← OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE



| TRAFFIC SIGNAL<br>ELECTRIC SERVICE REQUIREMENTS                                                                                                                                                                |          |      |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------|
| TYPE                                                                                                                                                                                                           | QUANTITY | UNIT | TOTAL |
| SIGNAL HEAD 3 - SECTION                                                                                                                                                                                        | 20       | 11   | 220   |
| 4 - SECTION                                                                                                                                                                                                    |          | 14   |       |
| 5 - SECTION                                                                                                                                                                                                    |          | 13   |       |
| PROGRAMMABLE SIGNAL HEAD                                                                                                                                                                                       |          |      |       |
| 3 - SECTION                                                                                                                                                                                                    |          | 22   |       |
| 4 - SECTION                                                                                                                                                                                                    |          | 32   |       |
| 5 - SECTION                                                                                                                                                                                                    |          | 28   |       |
| PED. SIGNAL                                                                                                                                                                                                    |          | 15   |       |
| CONTROLLER                                                                                                                                                                                                     | 1        | 150  | 150   |
| MASTER CONTROLLER                                                                                                                                                                                              |          | 100  |       |
| UPS                                                                                                                                                                                                            | 1        | 25   | 25    |
| DETECTION RADAR                                                                                                                                                                                                |          | 20   |       |
| VIDEO                                                                                                                                                                                                          | 1        | 20   | 20    |
| BLANK-OUT SIGN                                                                                                                                                                                                 |          | 25   |       |
| NETWORK SWITCH II OR III                                                                                                                                                                                       |          | 35   |       |
| CELLULAR MODEM                                                                                                                                                                                                 |          | 15   |       |
| TOTAL UPS SIZING                                                                                                                                                                                               |          |      | 415   |
| UPS CHARGING                                                                                                                                                                                                   | 1        | 225  | 225   |
| BATTERY HEATER MAT                                                                                                                                                                                             | 1        | 180  | 180   |
| CABINET HEATER                                                                                                                                                                                                 | 1        | 200  | 200   |
| FLASHER                                                                                                                                                                                                        | 1        | 15   | 15    |
| LED STREET NAME SIGN                                                                                                                                                                                           |          | 120  |       |
| LUMINAIRE                                                                                                                                                                                                      |          | 240  |       |
| TOTAL SERVICE WIRE SIZING                                                                                                                                                                                      |          |      | 1035  |
| ENERGY COST TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098<br>ENERGY SUPPLY:<br>CONTACT: COMED<br>PHONE: (630)424-5704<br>COMPANY: COMMONWEALTH EDISON<br>ACCOUNT NUMBER: 72900-1800 |          |      |       |

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| PLOT SCALE = 40.0000 ' / in. | DRAWN - NS        | REVISED - |
| PLOT DATE = 2/6/2025         | CHECKED - TS      | REVISED - |
|                              | DATE - 02/06/2025 | REVISED - |

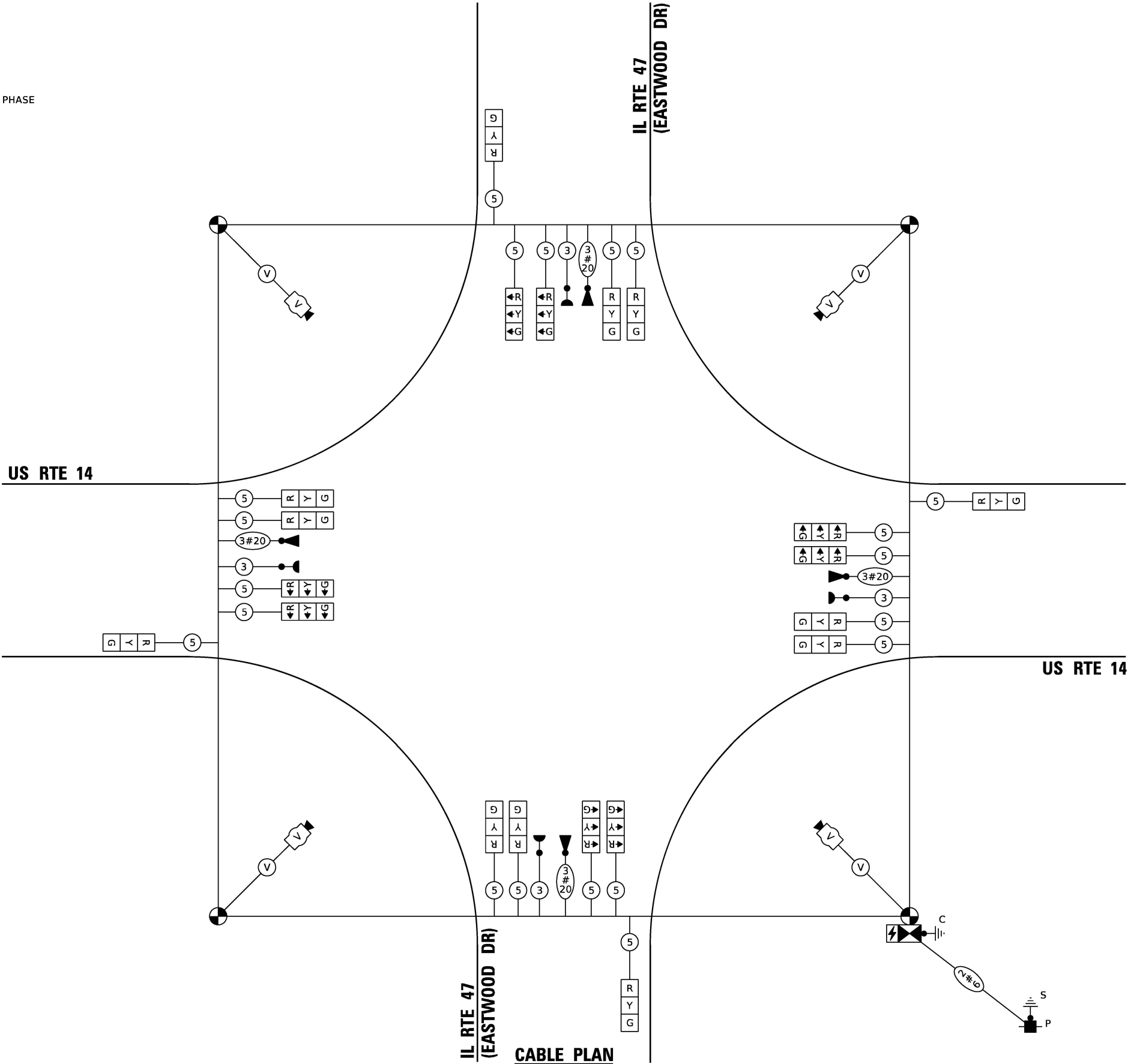
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN  
(ALL STAGES)  
(NOT TO SCALE)

| TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,<br>AND EMERGENCY VEHICLE PREEMPTION SEQUENCE<br>IL RTE 47 (EASTWOOD DR) AND US RTE 14 |       |      |        |
|----------------------------------------------------------------------------------------------------------------------------------------|-------|------|--------|
| SCALE:                                                                                                                                 | SHEET | OF   | SHEETS |
| STA.                                                                                                                                   | TO    | STA. | TO     |

| F.A.P.<br>RTE.            | SECTION              | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|----------------------|---------|-----------------|--------------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941             | 750          |
| CONTRACT NO. 62X94        |                      |         |                 |              |
| ILLINOIS FED. AID PROJECT |                      |         |                 |              |

TS 7235  
ECON 195





MODEL: Default  
FILE NAME: p:\data\con-cs-sw\w\_bentley.com\AECOM\DS21\_NA\_2020\Documents\60637011-IL-47\900-CAD\910\_CAD\03\_SHEETS\Traffic\_Signal\IL-47\_US-14\_signal2.dgn

ATLAS

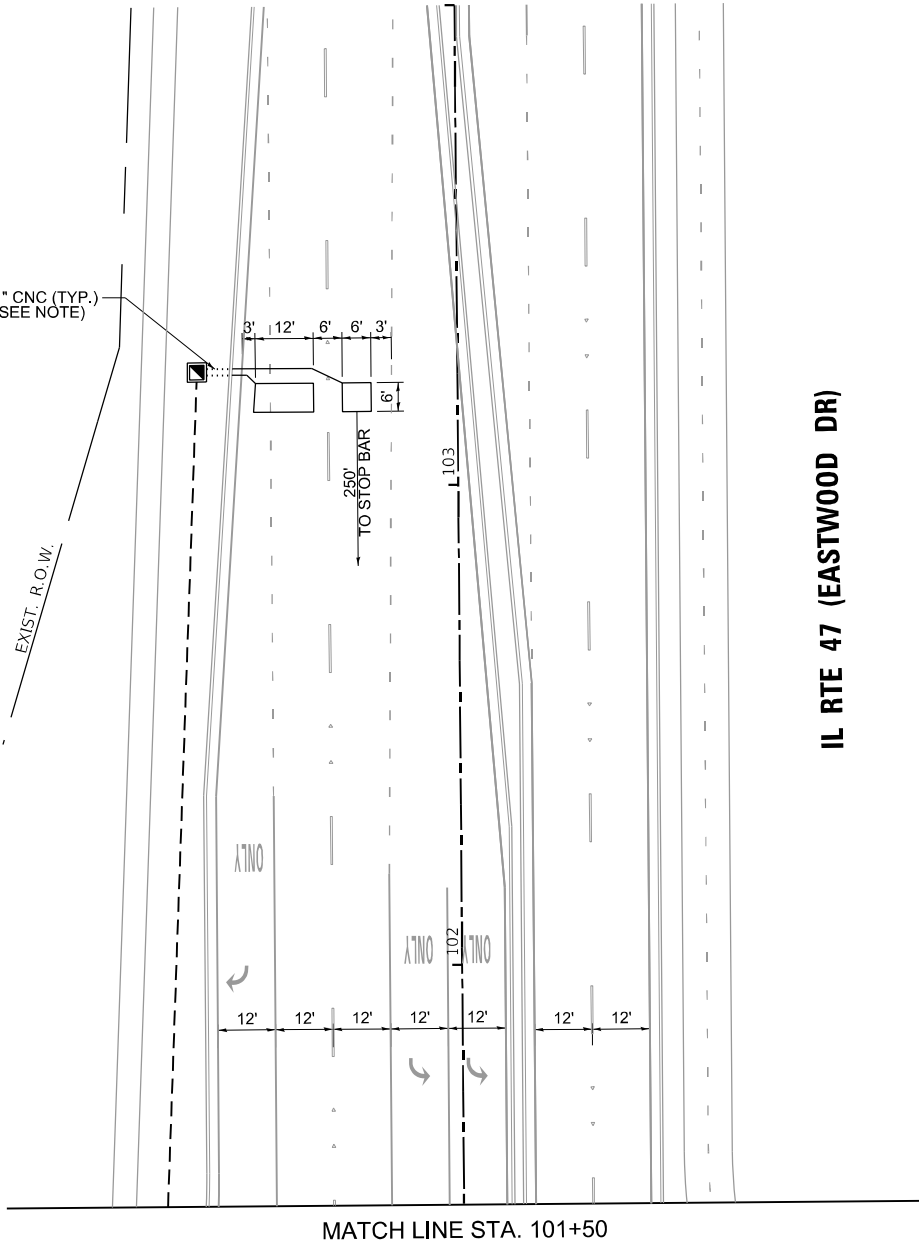
ATLAS TECHNICAL CONSULTANTS, LLC

100 S. WACKER DRIVE, SUITE 400

CHICAGO, IL 60606

|            |                   |            |            |           |  |
|------------|-------------------|------------|------------|-----------|--|
| USER NAME  | = nsalehian       | DESIGNED - | NS         | REVISED - |  |
| DRAWN -    | NS                | REVISED -  |            |           |  |
| PLOT SCALE | = 40,0000 * / in. | CHECKED -  | TS         | REVISED - |  |
| PLOT DATE  | = 2/6/2025        | DATE -     | 02/06/2025 | REVISED - |  |

IL RTE 47 (EASTWOOD DR)



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN  
IL RTE 47 (EASTWOOD DR) AND US RTE 14 (SHEET 2 OF 2)

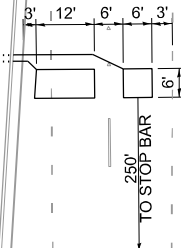
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 752       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 7235  
ECON 195

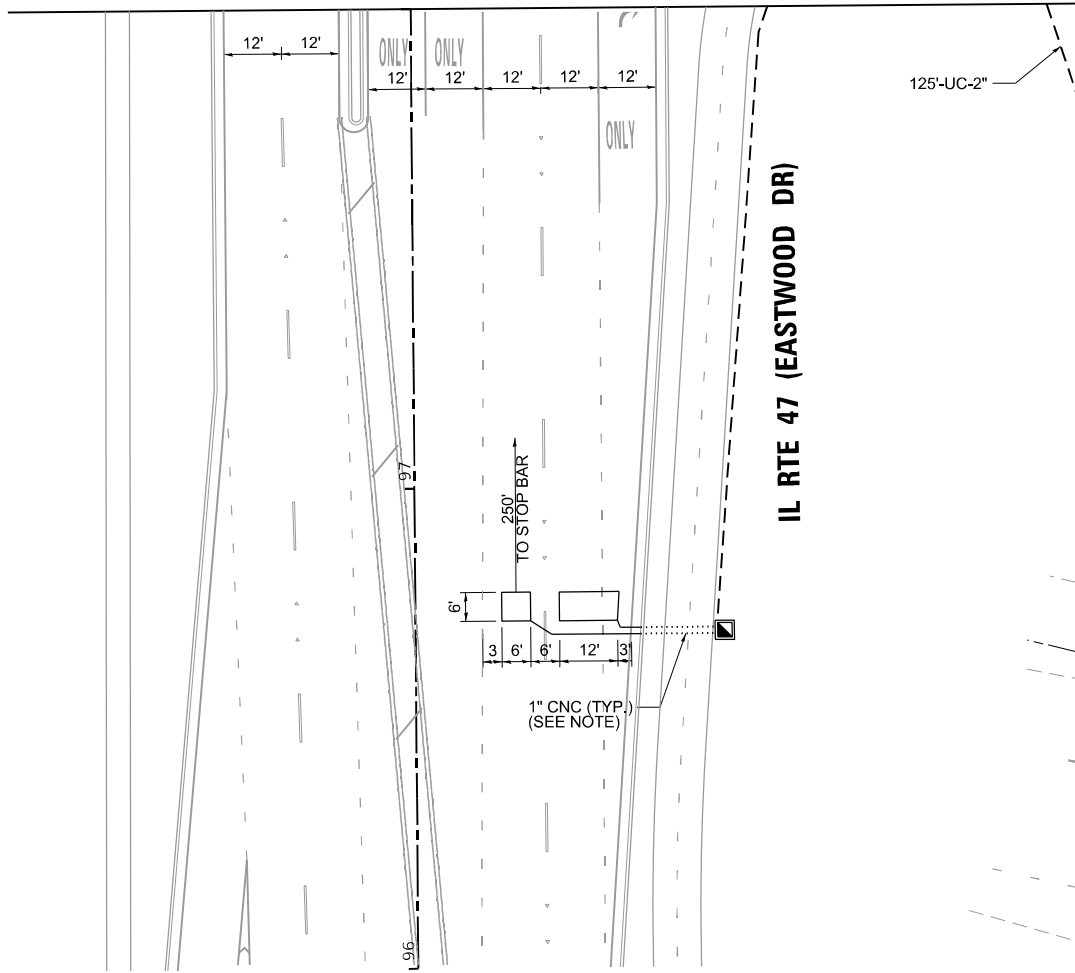
1" CNC (TYP.)  
(SEE NOTE)

EXIST. R.O.W.



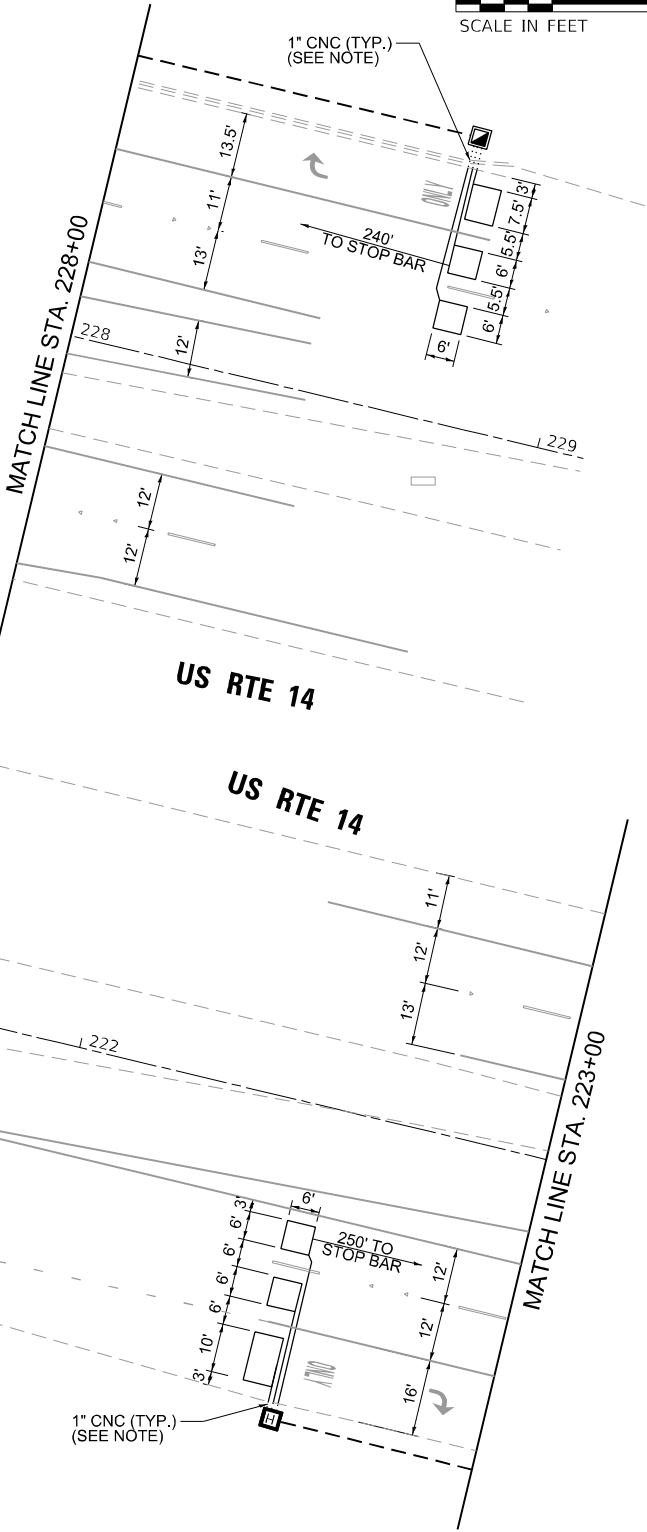
MATCH LINE STA. 101+50

MATCH LINE STA. 98+00



IL RTE 47 (EASTWOOD DR)

125'-UC-2"



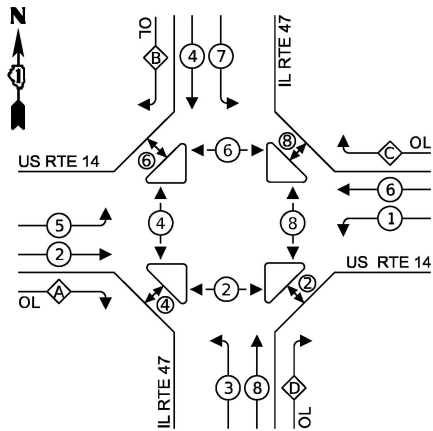
US RTE 14

US RTE 14

MATCH LINE STA. 223+00



## PROPOSED CONTROLLER SEQUENCE

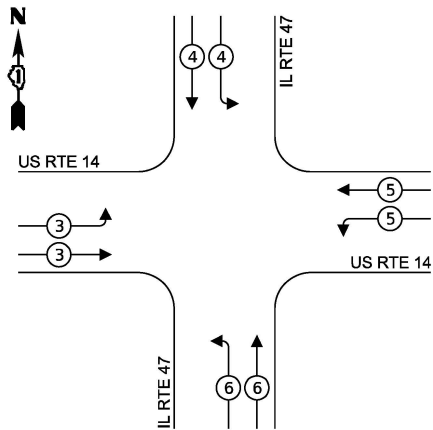


## LEGEND:

- ← ⊙ ← PROTECTED PHASE  
← ⊙ - PROTECTED/PERMITTED PHASE  
← ⊙ → PEDESTRIAN PHASE  
← ⊙ OL OVERLAP

RIGHT TURN OVERLAP  
PHASE DESIGNATION:

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| A              | = 2              | + 3             |
| B              | = 4              | + 5             |
| C              | = 6              | + 7             |
| D              | = 8              | + 1             |

PROPOSED EMERGENCY VEHICLE  
PREEMPTION SEQUENCE

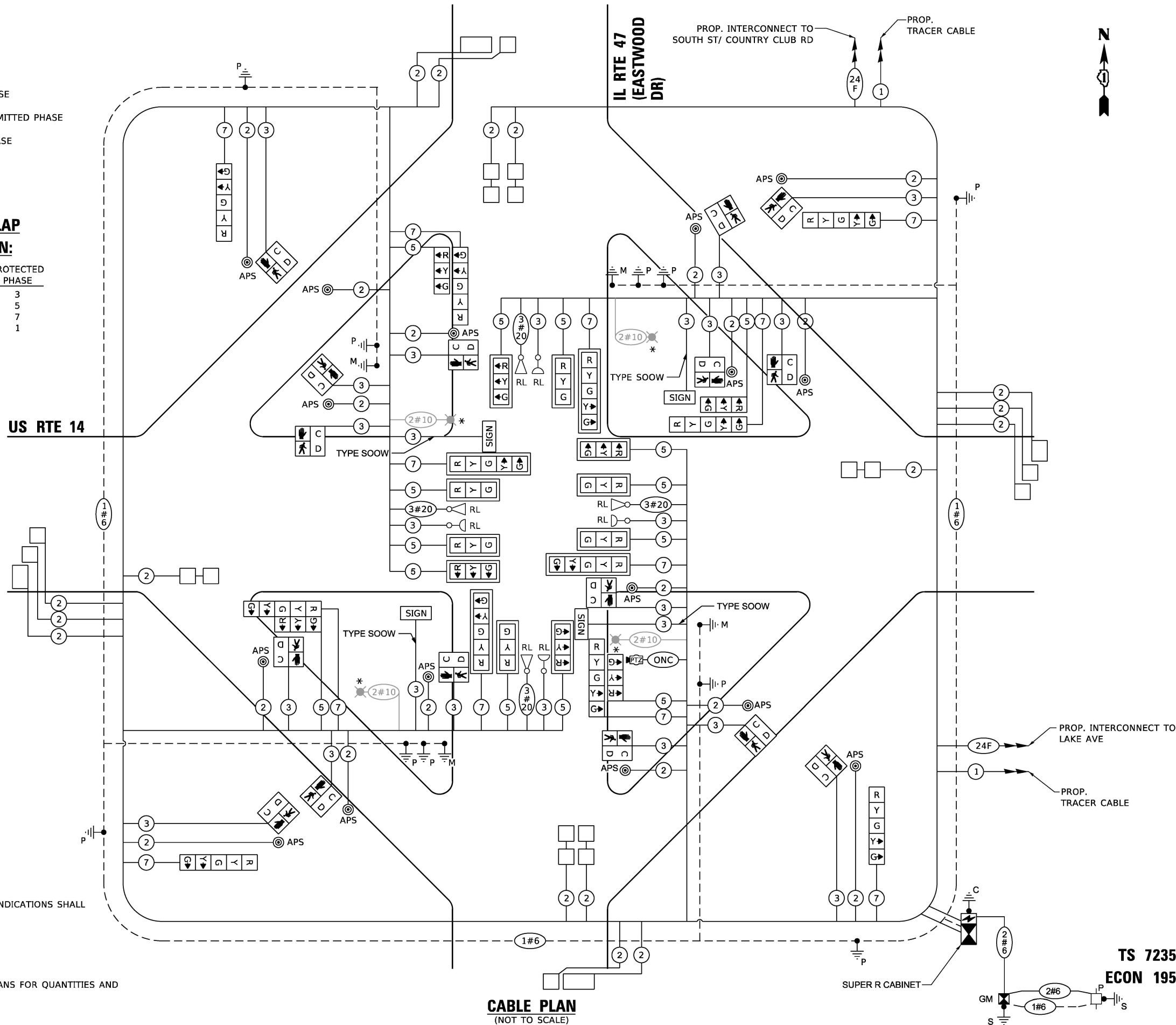
| TRAFFIC SIGNAL<br>ELECTRIC SERVICE REQUIREMENTS |          |      |       |
|-------------------------------------------------|----------|------|-------|
| TYPE                                            | QUANTITY | UNIT | TOTAL |
| SIGNAL HEAD 3 - SECTION                         | 14       | 11   | 154   |
| 4 - SECTION                                     |          | 14   |       |
| 5 - SECTION                                     | 12       | 13   | 156   |
| PROGRAMMABLE SIGNAL HEAD                        |          |      |       |
| 3 - SECTION                                     |          | 22   |       |
| 4 - SECTION                                     |          | 32   |       |
| 5 - SECTION                                     |          | 28   |       |
| PED. SIGNAL                                     | 12       | 15   | 180   |
| CONTROLLER                                      | 1        | 150  | 150   |
| MASTER CONTROLLER                               |          | 100  |       |
| UPS                                             | 1        | 25   | 25    |
| DETECTION                                       |          |      |       |
| RADAR                                           |          | 20   |       |
| VIDEO                                           |          | 20   |       |
| BLANK-OUT SIGN                                  |          | 25   |       |
| NETWORK SWITCH II OR III                        | 1        | 35   | 35    |
| CELLULAR MODEM                                  | 1        | 15   | 15    |
| TOTAL UPS SIZING                                |          |      | 715   |
| UPS CHARGING                                    | 1        | 225  | 225   |
| BATTERY HEATER MAT                              | 1        | 180  | 180   |
| CABINET HEATER                                  | 1        | 200  | 200   |
| FLASHER                                         | 1        | 15   | 15    |
| LED STREET NAME SIGN                            | 4        | 120  | 480   |
| LUMINAIRE                                       | 4        | 240  | 960   |
| TOTAL SERVICE WIRE SIZING                       |          |      | 2775  |
| ENERGY COST TO:                                 |          |      |       |
| CITY OF WOODSTOCK                               |          |      |       |
| 121 W. CALHOUN STREET                           |          |      |       |
| WOODSTOCK, IL 60098                             |          |      |       |
| ENERGY SUPPLY:                                  |          |      |       |
| CONTACT: COMED                                  |          |      |       |
| PHONE: (630) 424-5704                           |          |      |       |
| COMPANY: COMMONWEALTH EDISON                    |          |      |       |
| ACCOUNT NUMBER: 72900-1800                      |          |      |       |

## NOTE:

1. ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER

- \* SEE LIGHTING PLANS FOR QUANTITIES AND FURTHER DETAIL.

US RTE 14

CABLE PLAN  
(NOT TO SCALE)CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 47 (EASTWOOD DR) AND US RTE 14

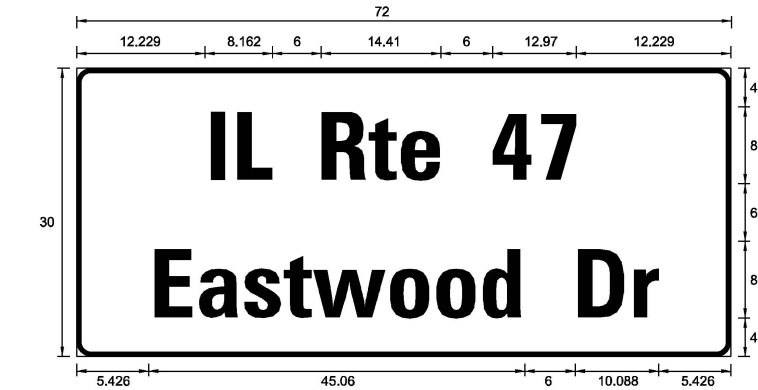
SCALE: SHEET OF SHEETS STA. TO STA.

TS 7235  
ECON 195

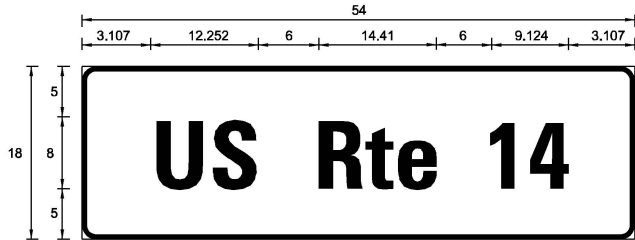
| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 753       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

LED INTERNALLY ILLUMINATED STREET NAME SIGN

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY REQUIRED |
|---------------|--------------|-----------------|---------------|--------------|
| D             | 15           | 2               | ZZ            | 2            |



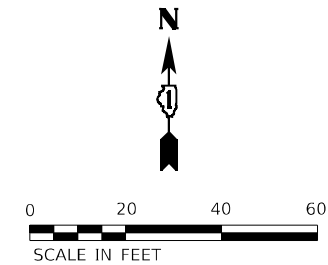
| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY REQUIRED |
|---------------|--------------|-----------------|---------------|--------------|
| D             | 6.75         | 1               | ZZ            | 2            |

FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION  
PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET  
NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION                                                          | UNIT  | TOTAL QTY |
|---------------------------------------------------------------------------|-------|-----------|
| SIGN PANEL - TYPE 1                                                       | SQ FT | 60        |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.                            | FOOT  | 1535      |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.                            | FOOT  | 196       |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.                            | FOOT  | 1298      |
| HANDHOLE                                                                  | EACH  | 5         |
| HEAVY-DUTY HANDHOLE                                                       | EACH  | 5         |
| DOUBLE HANDHOLE                                                           | EACH  | 4         |
| PAINT NEW TRAFFIC SIGNAL POST                                             | EACH  | 7         |
| PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT                    | EACH  | 2         |
| PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER                 | EACH  | 2         |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C                               | FOOT  | 4234      |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C                               | FOOT  | 5517      |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                               | FOOT  | 4270      |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C                               | FOOT  | 3265      |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR                         | FOOT  | 5046      |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C                             | FOOT  | 178       |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C        | FOOT  | 2513      |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH  | 7         |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.                       | EACH  | 2         |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.                       | EACH  | 2         |
| CONCRETE FOUNDATION, TYPE A                                               | FOOT  | 32        |
| CONCRETE FOUNDATION, TYPE C                                               | FOOT  | 4         |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER                              | FOOT  | 28        |
| CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER                              | FOOT  | 42        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH  | 10        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH  | 4         |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                      | EACH  | 8         |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH  | 4         |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH  | 16        |
| TRAFFIC SIGNAL BACKPLATE                                                  | EACH  | 14        |
| INDUCTIVE LOOP DETECTOR                                                   | EACH  | 16        |
| DETECTOR LOOP, TYPE I                                                     | FOOT  | 893       |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION                                     | EACH  | 1         |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT        | EACH  | 4         |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT         | EACH  | 1         |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH  | 1         |
| REMOVE EXISTING HANDHOLE                                                  | EACH  | 14        |
| REMOVE EXISTING DOUBLE HANDHOLE                                           | EACH  | 1         |
| REMOVE EXISTING CONCRETE FOUNDATION                                       | EACH  | 9         |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C           | FOOT  | 1230      |
| LED INTERNALLY ILLUMINATED STREET NAME SIGN                               | EACH  | 4         |
| OUTDOOR RATED NETWORK CABLE                                               | FOOT  | 137       |
| FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)               | EACH  | 1         |
| SERVICE INSTALLATION, GROUND MOUNTED, METERED                             | EACH  | 1         |
| REMOTE CONTROLLED VIDEO SYSTEM                                            | EACH  | 1         |
| TERMINATE FIBER IN CABINET                                                | EACH  | 12        |
| SPLICE FIBER IN CABINET                                                   | EACH  | 6         |
| PEDESTRIAN SIGNAL POST, 10 FT.                                            | EACH  | 2         |
| PEDESTRIAN SIGNAL POST, 5 FT.                                             | EACH  | 1         |
| LAYER III (NETWORK) SWITCH                                                | EACH  | 1         |
| ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW         | FOOT  | 1161      |
| PAINT NEW PEDESTRIAN PUSH-BUTTON POST                                     | EACH  | 3         |
| UNINTERRUPTABLE POWER SUPPLY (SPECIAL)                                    | EACH  | 1         |
| ACCESSIBLE PEDESTRIAN SIGNALS                                             | EACH  | 16        |
| CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER                              | FOOT  | 12        |
| LED SIGNAL FACE, LENS COVER                                               | EACH  | 26        |
| TEMPORARY TRAFFIC SIGNAL TIMING                                           | EACH  | 1         |





THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

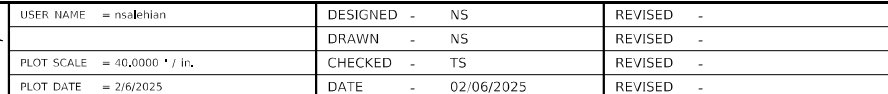
- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CABINET AT IL RTR 47 (EASTWOOD DR) AND SOUTH ST / COUNTRY CLUB RD:

- TS 7325  
ECON 167

|                                                                                                                                             |                              |                   |           |                                                                      |                                                                                                                                                    |       |    |        |      |             |                      |         |                  |           |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------|-----------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|--------|------|-------------|----------------------|---------|------------------|-----------|
| <div><div>ATLAS</div><div>ATLAS TECHNICAL CONSULTANTS, LLC</div><div>100 S. WACKER DRIVE, SUITE 400</div><div>CHICAGO, IL 60606</div></div> | USER NAME = nsa@ehian        | DESIGNED - NS     | REVISED - | <div>STATE OF ILLINOIS</div> <div>DEPARTMENT OF TRANSPORTATION</div> | <div>TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN</div> <div>IL RTE 47 (EASTWOOD DR) AND LAKE AVE</div> |       |    |        |      | F.A.P. RTE. | SECTION              | COUNTY  | TOTAL SHEETS     | SHEET NO. |
|                                                                                                                                             | PLOT SCALE = 40,00000' / in. | CHECKED - TS      | REVISED - |                                                                      |                                                                                                                                                    |       |    |        |      | 326         | 2024-1052-N,C,SW,FL. | MCHENRY | 941              | 755       |
|                                                                                                                                             | PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |                                                                      | CONTRACT NO. 62X94                                                                                                                                 |       |    |        |      |             |                      |         |                  |           |
|                                                                                                                                             |                              |                   |           |                                                                      | SCALE:                                                                                                                                             | SHEET | OF | SHEETS | STA. | TO STA.     | ILLINOIS             |         | FED. AID PROJECT |           |



MODEL: Default  
FILE NAME: pw:\aecom-na-pw.bentley.com\AECOM DS21 NA 2020\Documents\60632011-IL-471900-CAD\910 CAD\03 SHEETS\Traffic Signal\IL-47 Lake Rem & Tempo-2.dgn

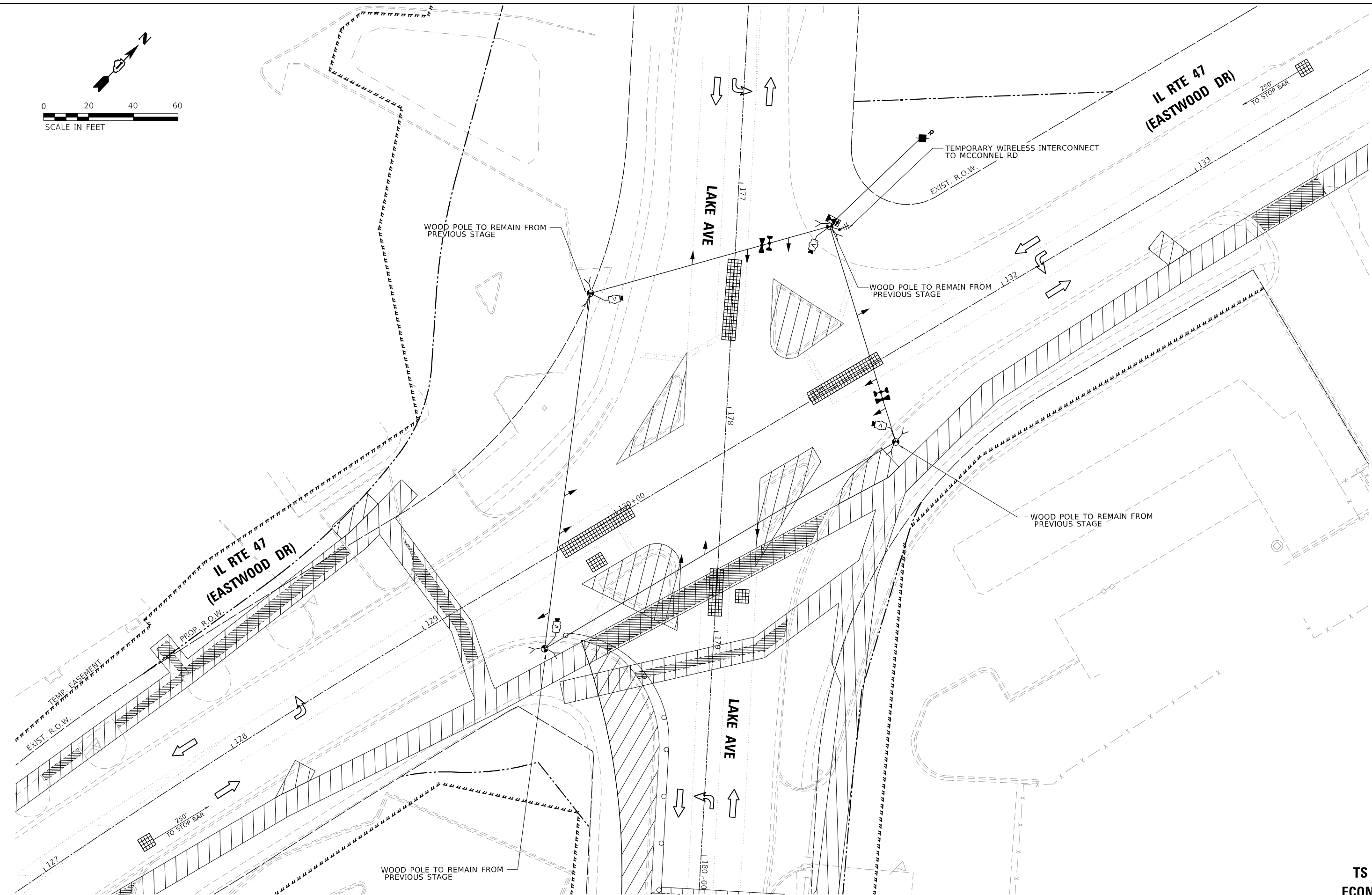
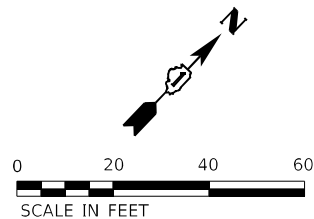


|        |       |    |        |      |         |
|--------|-------|----|--------|------|---------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
|--------|-------|----|--------|------|---------|

|                |                      |                    |                  |              |
|----------------|----------------------|--------------------|------------------|--------------|
| F.A.P.<br>RTE. | SECTION              | COUNTY             | TOTAL<br>SHEETS  | SHEET<br>NO. |
| 326            | 2024-1052-N,C,SW,FL. | MCHENRY            | 941              | 756          |
|                |                      | CONTRACT NO. 62X94 |                  |              |
|                |                      | ILLINOIS           | FED. AID PROJECT |              |

A north arrow pointing upwards and a scale bar in feet. The scale bar is marked from 0 to 60 feet, with a midpoint at 30 feet.

TS SHT NO. 22-A



**TS 7325**  
**ECON 167**

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - N5     | REVISED - |
|                              | DRAWN - N5        | REVISED - |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

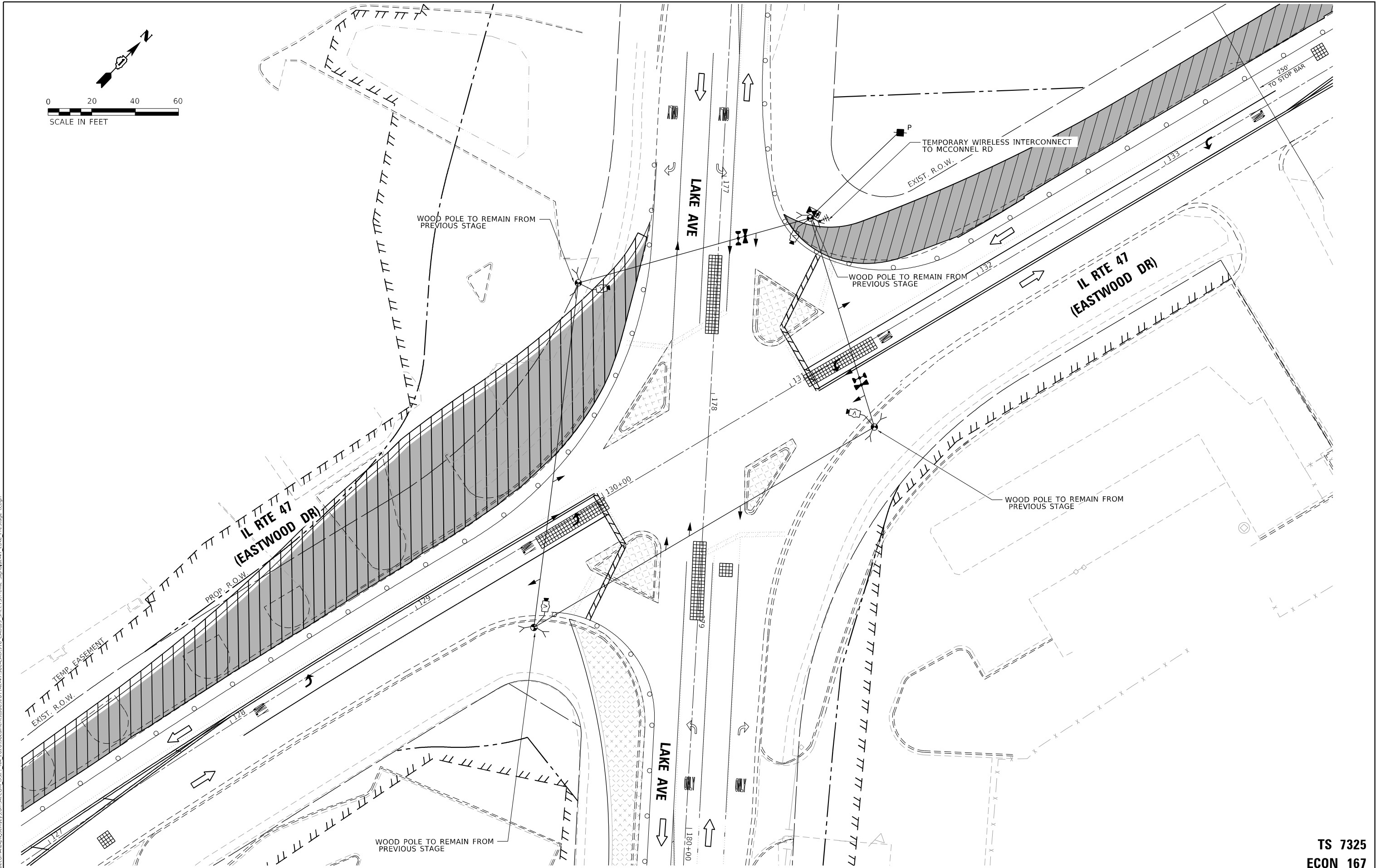
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – PRESTAGE A  
IL RTE 47 (EASTWOOD DR) AND LAKE AVE**

|               |       |    |        |      |         |
|---------------|-------|----|--------|------|---------|
| SCALE: 1"=20' | SHEET | OF | SHEETS | STA. | TO STA. |
|---------------|-------|----|--------|------|---------|

|                |                      |                           |                 |              |
|----------------|----------------------|---------------------------|-----------------|--------------|
| F.A.P.<br>RTE. | SECTION              | COUNTY                    | TOTAL<br>SHEETS | SHEET<br>NO. |
| 326            | 2024-1052-N,C,SW,FL. | MCHENRY                   | 941             | 757          |
|                |                      | CONTRACT NO. 62X94        |                 |              |
|                |                      | ILLINOIS FED. AID PROJECT |                 |              |

TS SHT NO. 23

MODEL: Default  
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**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|            |                   |
|------------|-------------------|
| USER NAME  | = nsalehian       |
| DESIGNED   | - NS              |
| DRAWN      | - NS              |
| PLOT SCALE | = 40,0000 * / in. |
| DATE       | - 02/06/2025      |
| CHECKED    | - TS              |

|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – PRESTAGE B  
IL RTE 47 (EASTWOOD DR) AND LAKE AVE

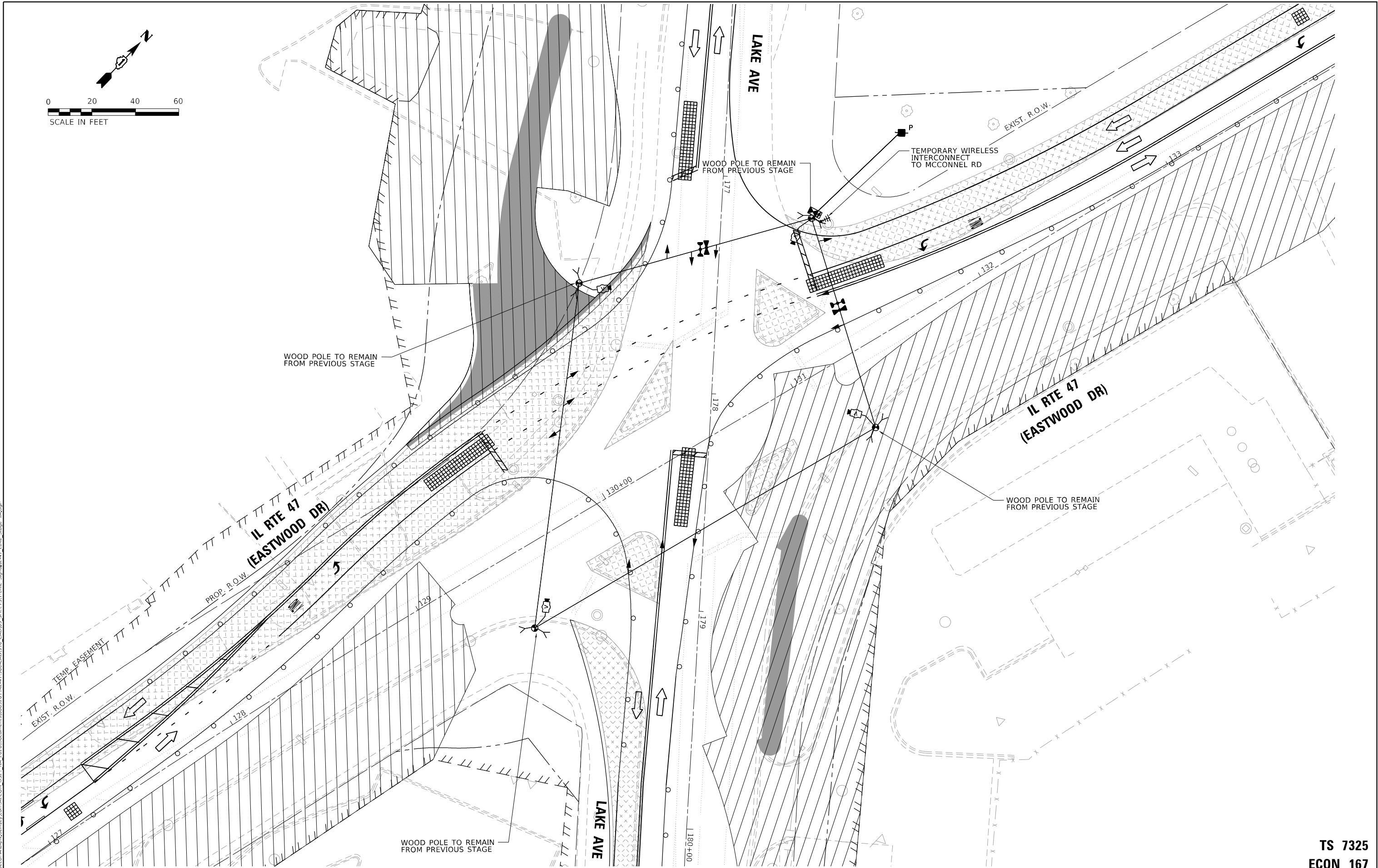
SCALE: 1"=20'    SHEET    OF    SHEETS    STA.    TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 758       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 7325  
ECON 167

TS SHT NO. 24

MODEL: Default  
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**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|            |                   |
|------------|-------------------|
| USER NAME  | = nsalehian       |
| DESIGNED   | - NS              |
| DRAWN      | - NS              |
| PLOT SCALE | = 40,0000 * / in. |
| PLOT DATE  | = 2/6/2025        |
| CHECKED    | - TS              |
| DATE       | - 02/06/2025      |

|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 1A  
IL RTE 47 (EASTWOOD DR) AND LAKE AVE

SCALE: 1"=20'    SHEET    OF    SHEETS    STA.    TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 759       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 7325  
ECON 167

MODEL: Default  
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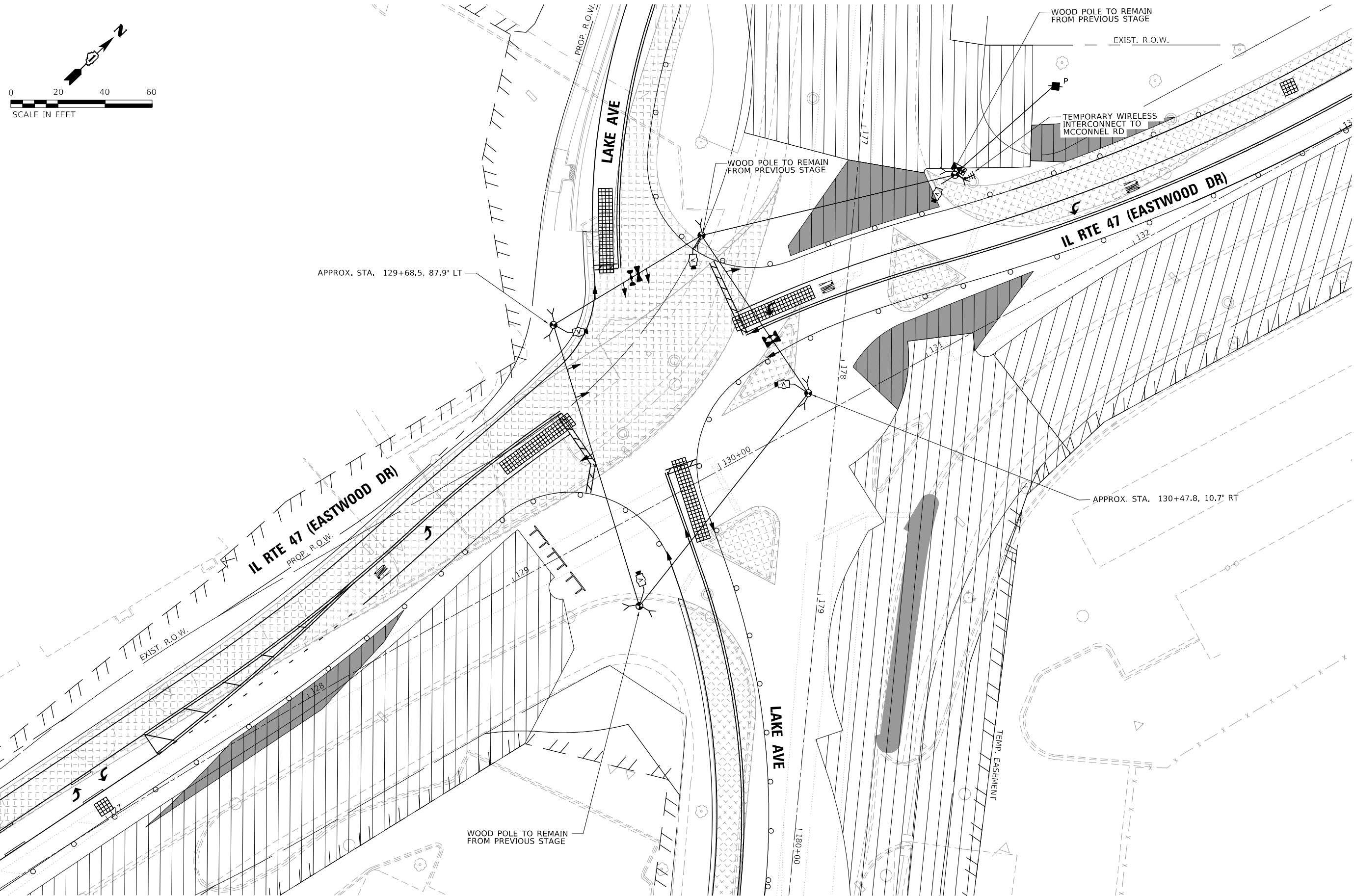
|            |                   |            |            |           |  |
|------------|-------------------|------------|------------|-----------|--|
| USER NAME  | = nsalehian       | DESIGNED - | NS         | REVISED - |  |
| DRAWN -    | NS                | REVISED -  |            |           |  |
| PLOT SCALE | = 40,0037' */ in. | CHECKED -  | TS         | REVISED - |  |
| PLOT DATE  | = 2/6/2025        | DATE -     | 02/06/2025 | REVISED - |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 1B  
IL RTE 47 (EASTWOOD DR) AND LAKE AVE

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 760       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |



MODEL: Default  
FILE NAME: p:\data\con-cs-cw\entley.com\AECOM\_DS21\_NA\_2020\Documents\60632011-IL-47\900-CAD\910\_CAD\03\_SHEETS\Traffic\_Signal\IL-47\_Lake\_Stage\_1C.dgn



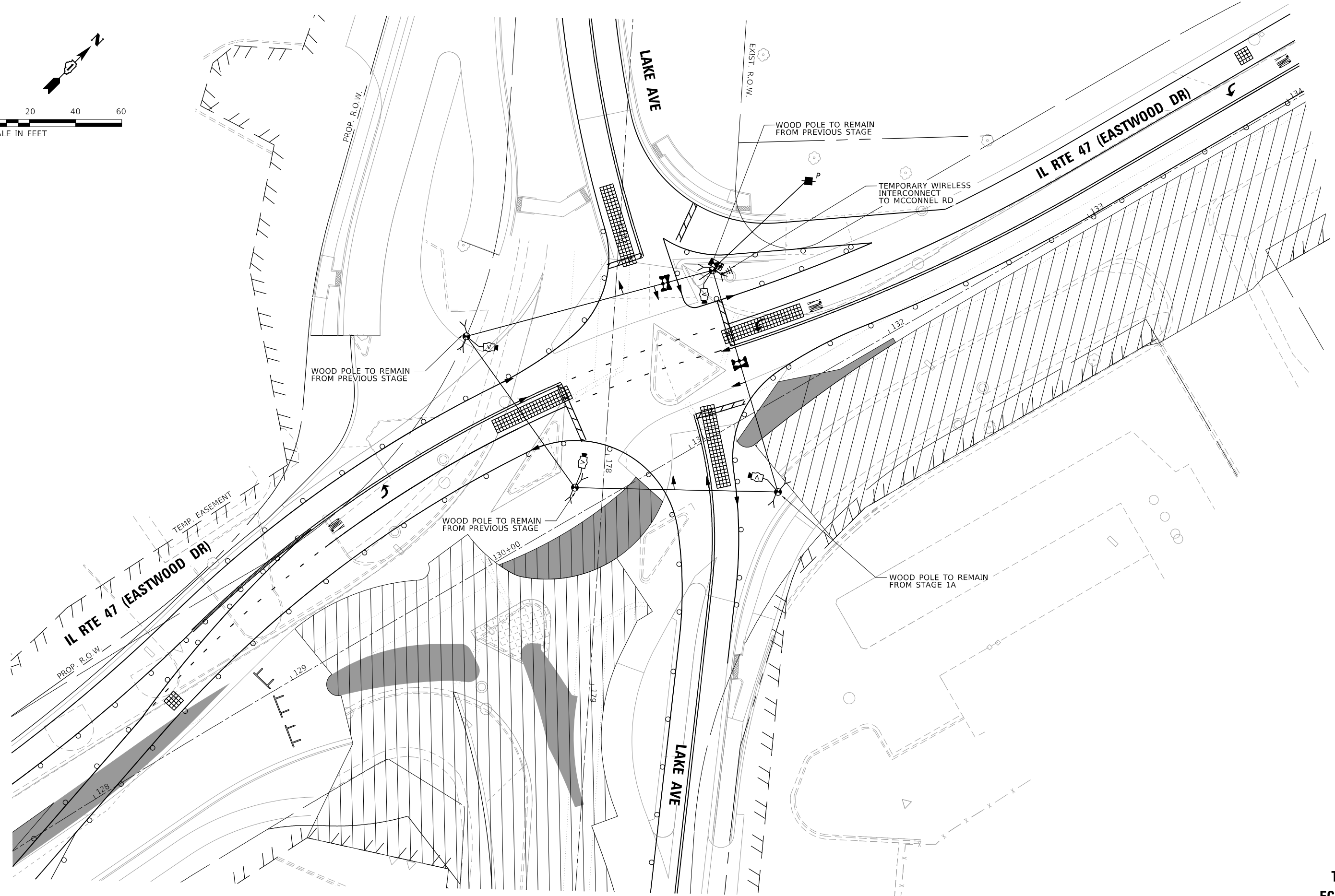
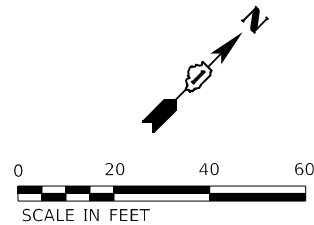
|                               |                   |           |
|-------------------------------|-------------------|-----------|
| USER NAME = nsalehian         | DESIGNED - NS     | REVISED - |
| DRAWN - NS                    | REVISED -         |           |
| PLOT SCALE = 40,0000' +/- in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025          | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 1C  
IL RTE 47 (EASTWOOD DR) AND LAKE AVE

SCALE: 1"=20'      SHEET      OF      SHEETS      STA.      TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 761       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |





TS SHT NO. 27

MODEL: Default  
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|            |                   |            |            |           |  |
|------------|-------------------|------------|------------|-----------|--|
| USER NAME  | = nsalehian       | DESIGNED - | NS         | REVISED - |  |
|            |                   | DRAWN -    | NS         | REVISED - |  |
| PLOT SCALE | = 40,0000 * / in. | CHECKED -  | TS         | REVISED - |  |
| PLOT DATE  | = 2/6/2025        | DATE -     | 02/06/2025 | REVISED - |  |

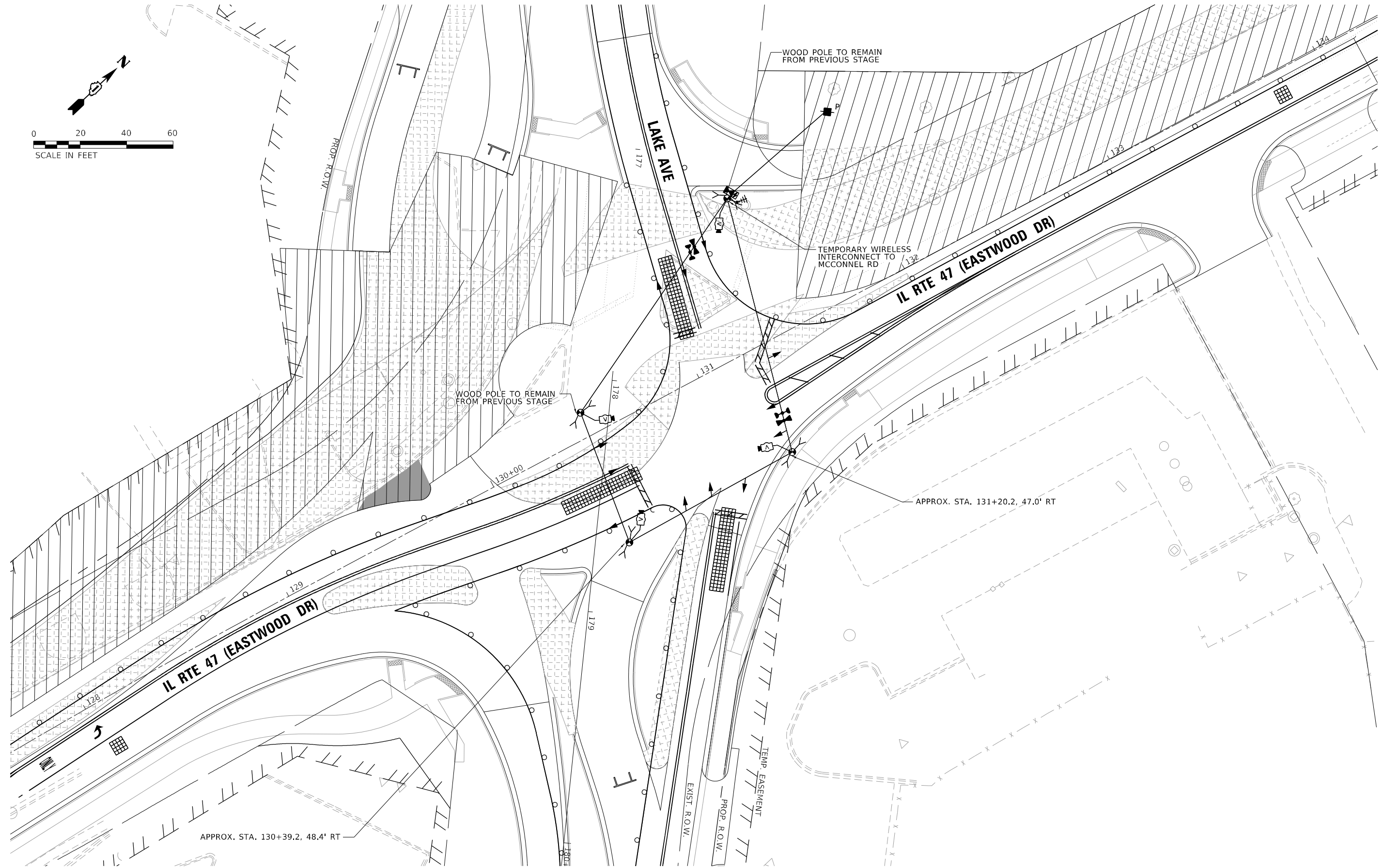
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 2A  
IL RTE 47 (EASTWOOD DR) AND LAKE AVE

SCALE: 1"=20'    SHEET    OF    SHEETS    STA.    TO STA.

| F.A.P. RTE.                  | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|------------------------------|----------------------|---------|--------------|-----------|
| 326                          | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 762       |
| CONTRACT NO. 62X94           |                      |         |              |           |
| ILLINOIS    FED. AID PROJECT |                      |         |              |           |

TS 7325  
ECON 167





TS SHT NO. 28

MODEL: Default  
FILE NAME: p:\data\con-cad\sw\_bentley.com\aecon\DS21\_NA\_2020\Documents\60632011-IL-47\000-CAD\03\_SHEETS\Traffic\_Signal\IL-47\_Lake\_Stage\_2B.dgn

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|            |                   |
|------------|-------------------|
| USER NAME  | = nsalehian       |
| DESIGNED   | - NS              |
| DRAWN      | - NS              |
| PLOT SCALE | = 40,0000 * / in. |
| PLOT DATE  | = 2/6/2025        |
| CHECKED    | - TS              |
| DATE       | - 02/06/2025      |

|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

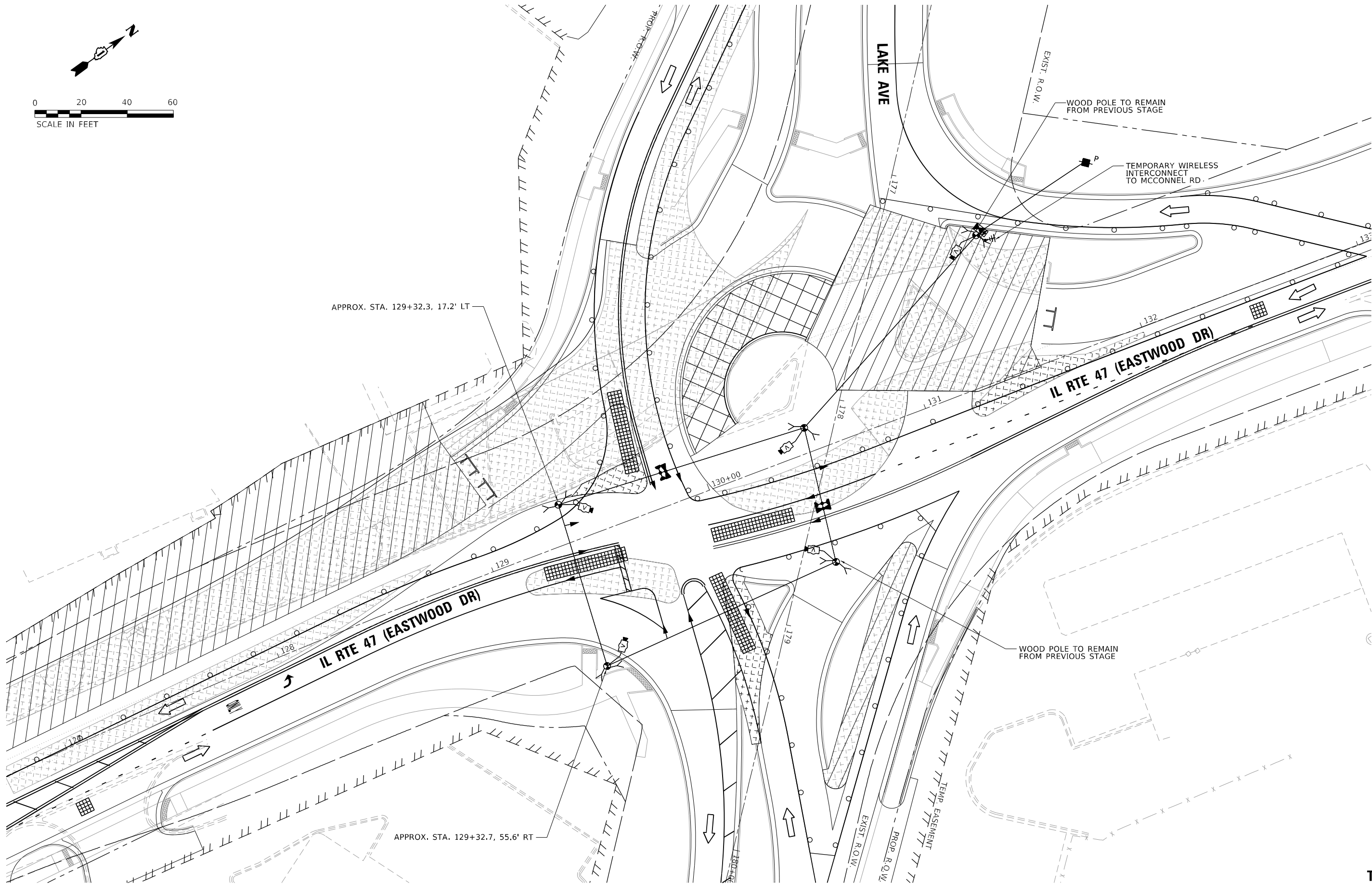
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 2B  
IL RTE 47 (EASTWOOD DR) AND LAKE AVE

SCALE: 1"=20'

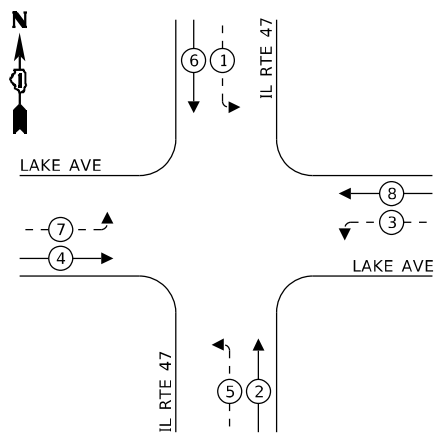
SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.        | SECTION              | COUNTY           | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------------|------------------|--------------|-----------|
| 326                | 2024-1052-N,C,SW,FL. | MCHENRY          | 941          | 763       |
| CONTRACT NO. 62X94 |                      |                  |              |           |
| ILLINOIS           |                      | FED. AID PROJECT |              |           |

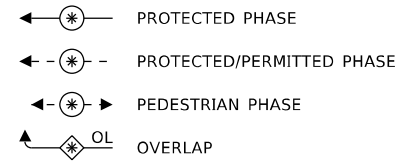
TS 7325  
ECON 167



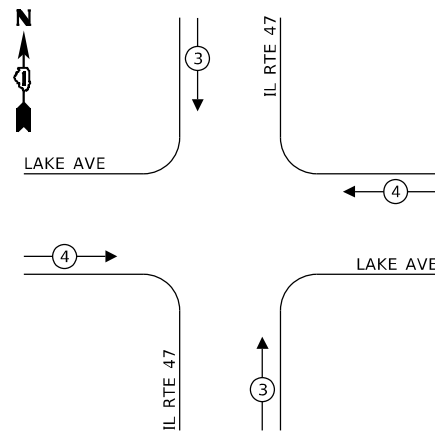
### TEMPORARY CONTROLLER SEQUENCE (PRESTAGE A & B)



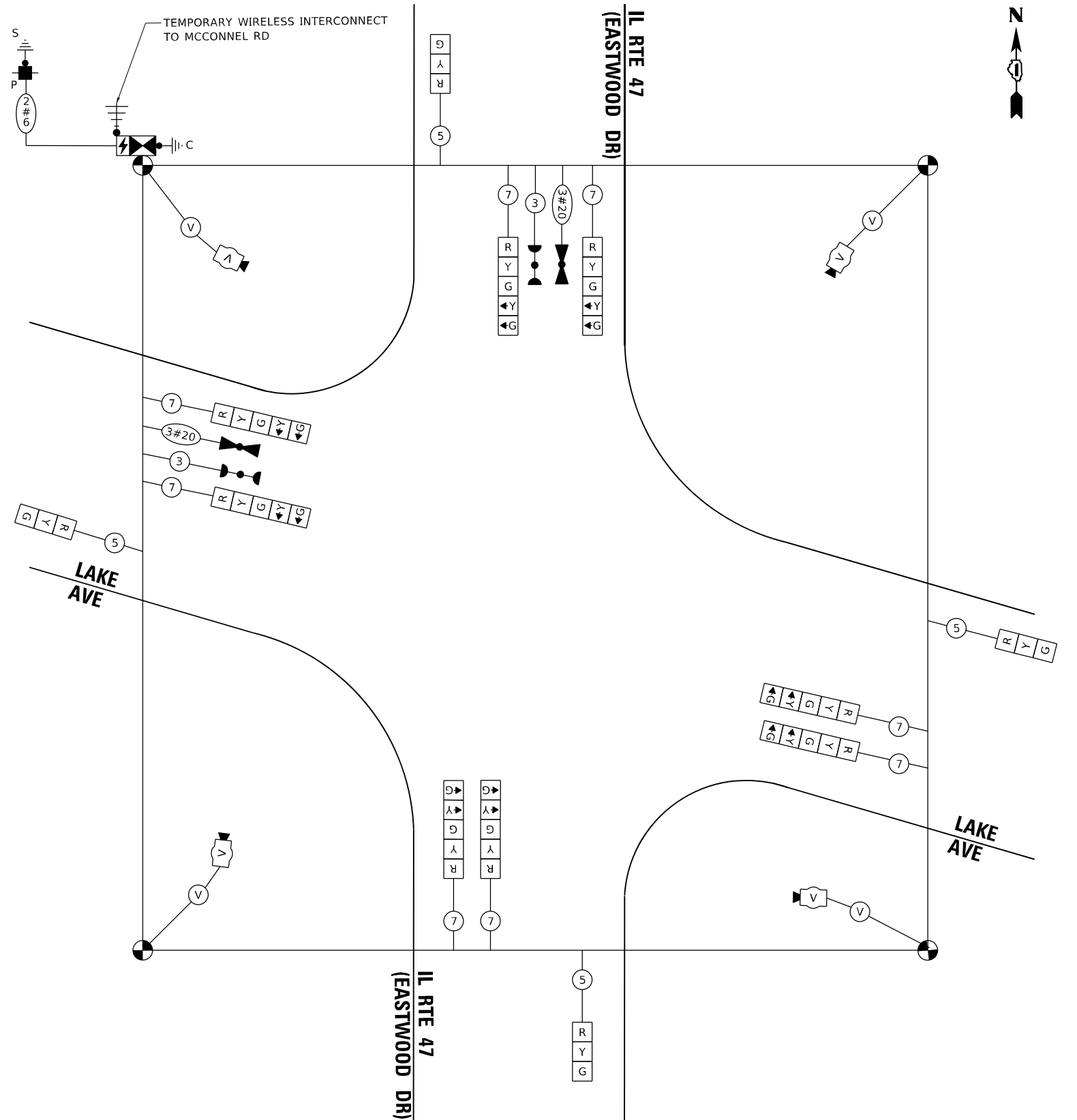
**LEGEND:**



**TEMPORARY EMERGENCY VEHICLE**  
**PREEMPTION SEQUENCE**  
**(PRESTAGE A & B)**



| TRAFFIC SIGNAL<br>ELECTRICAL SERVICE REQUIREMENTS                                     |          |                 |                  |
|---------------------------------------------------------------------------------------|----------|-----------------|------------------|
| TYPE                                                                                  | QUANTITY | UNIT<br>WATTAGE | TOTAL<br>WATTAGE |
| SIGNAL HEAD 3 - SECTION                                                               | 4        | 11              | 44.0             |
| 4 - SECTION                                                                           | -        | 14              | -                |
| 5 - SECTION                                                                           | 8        | 13              | 104.0            |
| PROGRAMMABLE SIGNALS                                                                  |          |                 | -                |
| 3 - SECTION                                                                           | -        | 22              | -                |
| 4 - SECTION                                                                           | -        | 32              | -                |
| 5 - SECTION                                                                           | -        | 28              | -                |
| PED. SIGNAL                                                                           | -        | 15              | -                |
| CONTROLLER                                                                            | 1        | 150             | 150.0            |
| MASTER CONTROLLER                                                                     | -        | 100             | -                |
| UPS                                                                                   | 1        | 25              | 25.0             |
| DETECTION RADAR                                                                       | -        | 20              | -                |
| VIDEO                                                                                 | 1        | 20              | 20.0             |
| BLANK-OUT SIGN                                                                        | -        | 25              | -                |
| NETWORK SWITCH II OR III                                                              | -        | 35              | -                |
| CELLULAR MODEM                                                                        | -        | 15              | -                |
| TOTAL UPS SIZING =                                                                    |          |                 | 343.0            |
| UPS CHARGING                                                                          | 1        | 225             | 225              |
| BATTERY HEATER MAT                                                                    | 1        | 180             | 180              |
| CABINET HEATER                                                                        | 1        | 200             | 200              |
| FLASHER                                                                               | 1        | 15              | 15               |
| LED STREET NAME SIGN                                                                  | -        | 120             | -                |
| LUMINAIRE                                                                             | -        | 240             | -                |
|                                                                                       |          |                 | 963.0            |
| ENERGY COSTS TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098 |          |                 |                  |
| ENERGY SUPPLY: CONTACT: <u>COMED NEW BUSINESS</u>                                     |          |                 |                  |
| PHONE: <u>630-424-5704</u>                                                            |          |                 |                  |
| COMPANY: <u>COMMONWEALTH EDISON</u>                                                   |          |                 |                  |
| ACCOUNT NUMBER: <u>---</u>                                                            |          |                 |                  |



**CABLE PLAN**  
**(PRESTAGE A & B)**

(NOT TO SCALE)

TS SHT NO. 29

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

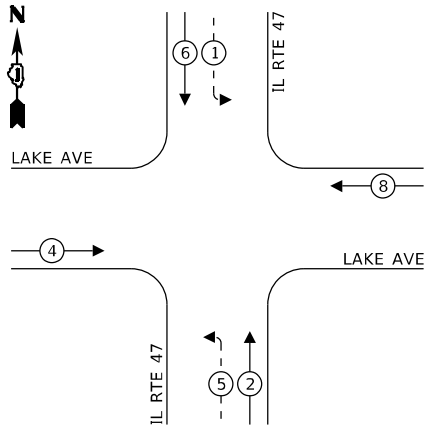
TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (SHEET 1 OF 3)  
IL RTE 47 (EASTWOOD DR) AND LAKE AVE

| F.A.P.<br>RTE. | SECTION               | COUNTY             | TOTAL<br>SHEETS  | SHEET<br>NO. |
|----------------|-----------------------|--------------------|------------------|--------------|
| 326            | 2024-1052-N,C,S,W,FL. | MCHENRY            | 941              | 764          |
|                |                       | CONTRACT NO. 62X94 |                  |              |
|                |                       | ILLINOIS           | FED. AID PROJECT |              |

TS 7325  
CON 167

MODEL: Default  
FILE NAME: p:\data\con-cs-sw-bentley.com\aecon\ds21\_na\_2020\Documents\60627011-IL-171900-CAD\03-10 CAD\03-SHEETS\Traffic-Signal\IL-47 Lake-temp-cable.dgn

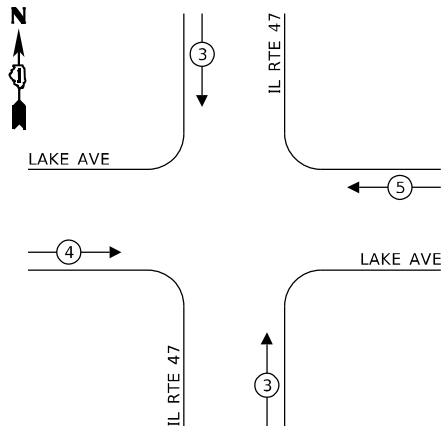
TEMPORARY CONTROLLER SEQUENCE  
(STAGE 1B AND 2B)



LEGEND:

- ← (\*) PROTECTED PHASE
- ← (\*) - - PROTECTED/PERMITTED PHASE
- ← (\*) → PEDESTRIAN PHASE
- ← (\*) OL OVERLAP

TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE (STAGE 1B AND 2B)



TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE                    | QUANTITY    | UNIT<br>WATTAGE | TOTAL<br>WATTAGE |
|-------------------------|-------------|-----------------|------------------|
| SIGNAL HEAD             | 3 - SECTION | 8               | 11               |
|                         | 4 - SECTION | -               | 14               |
|                         | 5 - SECTION | 4               | 13               |
|                         |             |                 | 52.0             |
| PROGRAMMABLE SIGNALS    |             |                 | -                |
|                         | 3 - SECTION | -               | 22               |
|                         | 4 - SECTION | -               | 32               |
|                         | 5 - SECTION | -               | 28               |
|                         |             |                 | -                |
| PED. SIGNAL             |             |                 | 15               |
| CONTROLLER              | 1           | 150             | 150.0            |
| MASTER CONTROLLER       | -           | 100             | -                |
| UPS                     | 1           | 25              | 25.0             |
| DETECTION               | RADAR       | -               | 20               |
|                         | VIDEO       | 1               | 20               |
|                         |             |                 | 20.0             |
| BLANK-OUT SIGN          | -           | 25              | -                |
| NETWORK SWITH II OR III | -           | 35              | -                |
| CELLULAR MODEM          | -           | 15              | -                |
| TOTAL UPS SIZING =      |             |                 | 335.0            |
| UPS CHARGING            | 1           | 225             | 225              |
| BATTERY HEATER MAT      | 1           | 180             | 180              |
| CABINET HEATER          | 1           | 200             | 200              |
| FLASHER                 | 1           | 15              | 15               |
| LED STREET NAME SIGN    | -           | 120             | -                |
| LUMINAIRE               | -           | 240             | -                |
|                         |             |                 | 955.0            |

ENERGY COSTS TO:  
CITY OF WOODSTOCK  
121 W. CALHOUN STREET  
WOODSTOCK, IL 60098

ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS  
PHONE: 630-424-5704  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---



|            |                   |
|------------|-------------------|
| USER NAME  | = nsalehian       |
| PLOT SCALE | = 40,0000 * / in. |
| PLOT DATE  | = 2/6/2025        |

|          |              |
|----------|--------------|
| DESIGNED | - NS         |
| DRAWN    | - NS         |
| CHECKED  | - TS         |
| DATE     | - 02/06/2025 |

|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

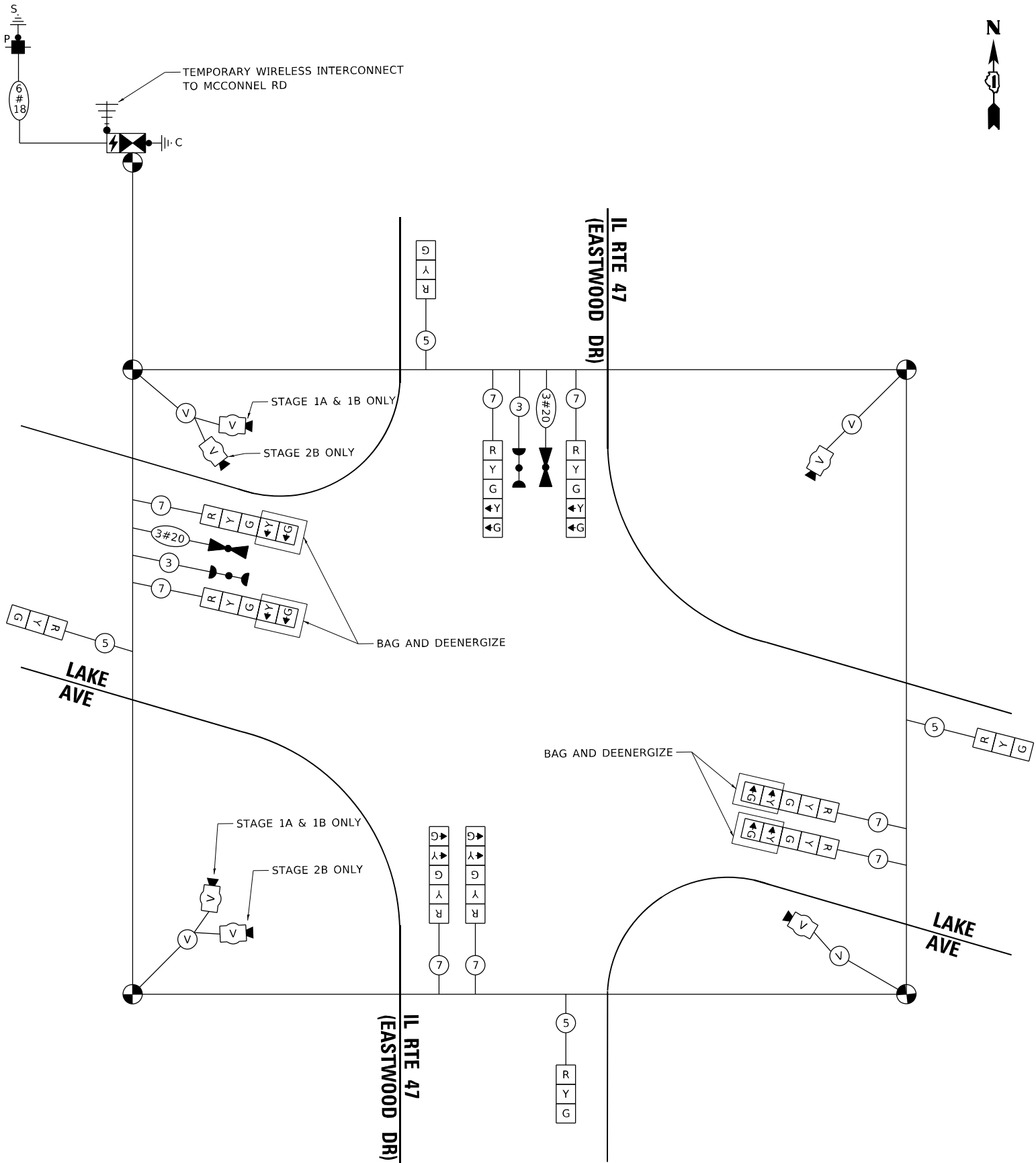
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (SHEET 2 OF 3)  
IL RTE 47 (EASTWOOD DR) AND LAKE AVE

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P.<br>RTE.            | SECTION              | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|----------------------|---------|-----------------|--------------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941             | 765          |
| CONTRACT NO. 62X94        |                      |         |                 |              |
| ILLINOIS FED. AID PROJECT |                      |         |                 |              |

TS 7325  
ECON 167

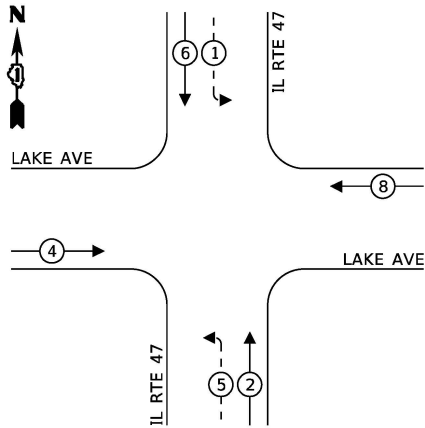


CABLE PLAN  
(STAGE 1B AND 2B)

(NOT TO SCALE)

MODEL: Default  
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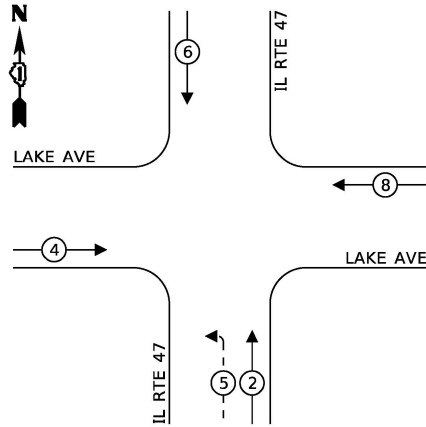
TEMPORARY CONTROLLER SEQUENCE  
(STAGE 1A AND 1C)



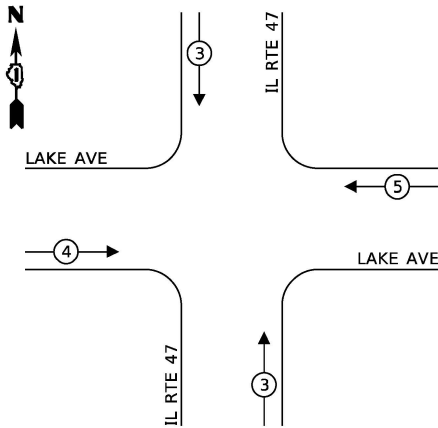
LEGEND:

- ← (\*) PROTECTED PHASE
- ← (\*) - - PROTECTED/PERMITTED PHASE
- ← (\*) → PEDESTRIAN PHASE
- ← (\*) OL OVERLAP

TEMPORARY CONTROLLER SEQUENCE  
(STAGE 2A)



TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE (STAGE 1A, 1C AND 2A)



SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION                                                   | UNIT | TOTAL QTY |
|--------------------------------------------------------------------|------|-----------|
| TEMPORARY TRAFFIC SIGNAL INSTALLATION                              | EACH | 1         |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 2         |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT  | EACH | 1         |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                           | EACH | 1         |
| REMOVE EXISTING HANDHOLE                                           | EACH | 7         |
| REMOVE EXISTING DOUBLE HANDHOLE                                    | EACH | 2         |
| REMOVE EXISTING CONCRETE FOUNDATION                                | EACH | 7         |
| TEMPORARY TRAFFIC SIGNAL TIMING                                    | EACH | 1         |

| TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS                                                                           |          |              |               |
|--------------------------------------------------------------------------------------------------------------------------|----------|--------------|---------------|
| TYPE                                                                                                                     | QUANTITY | UNIT WATTAGE | TOTAL WATTAGE |
| SIGNAL HEAD 3 - SECTION                                                                                                  | 8        | 11           | 88.0          |
| 4 - SECTION                                                                                                              | -        | 14           | -             |
| 5 - SECTION                                                                                                              | 4        | 13           | 52.0          |
| PROGRAMMABLE SIGNALS                                                                                                     |          |              | -             |
| 3 - SECTION                                                                                                              | -        | 22           | -             |
| 4 - SECTION                                                                                                              | -        | 32           | -             |
| 5 - SECTION                                                                                                              | -        | 28           | -             |
| PED. SIGNAL CONTROLLER                                                                                                   | 1        | 150          | 150.0         |
| MASTER CONTROLLER                                                                                                        | -        | 100          | -             |
| UPS                                                                                                                      | 1        | 25           | 25.0          |
| DETECTION RADAR                                                                                                          | -        | 20           | -             |
| VIDEO                                                                                                                    | 1        | 20           | 20.0          |
| BLANK-OUT SIGN                                                                                                           | -        | 25           | -             |
| NETWORK SWITCH II OR III                                                                                                 | -        | 35           | -             |
| CELLULAR MODEM                                                                                                           | -        | 15           | -             |
| TOTAL UPS SIZING =                                                                                                       |          |              | 335.0         |
| UPS CHARGING                                                                                                             | 1        | 225          | 225           |
| BATTERY HEATER MAT                                                                                                       | 1        | 180          | 180           |
| CABINET HEATER                                                                                                           | 1        | 200          | 200           |
| FLASHER                                                                                                                  | 1        | 15           | 15            |
| LED STREET NAME SIGN                                                                                                     | -        | 120          | -             |
| LUMINAIRE                                                                                                                | -        | 240          | -             |
|                                                                                                                          |          |              | 955.0         |
| ENERGY COSTS TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098                                    |          |              |               |
| ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS<br>PHONE: 630-424-5704<br>COMPANY: COMMONWEALTH EDISON<br>ACCOUNT NUMBER: --- |          |              |               |



|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | DRAWN - NS        | REVISED - |
| PLOT DATE = 2/6/2025         | CHECKED - TS      | REVISED - |
|                              | DATE - 02/06/2025 | REVISED - |

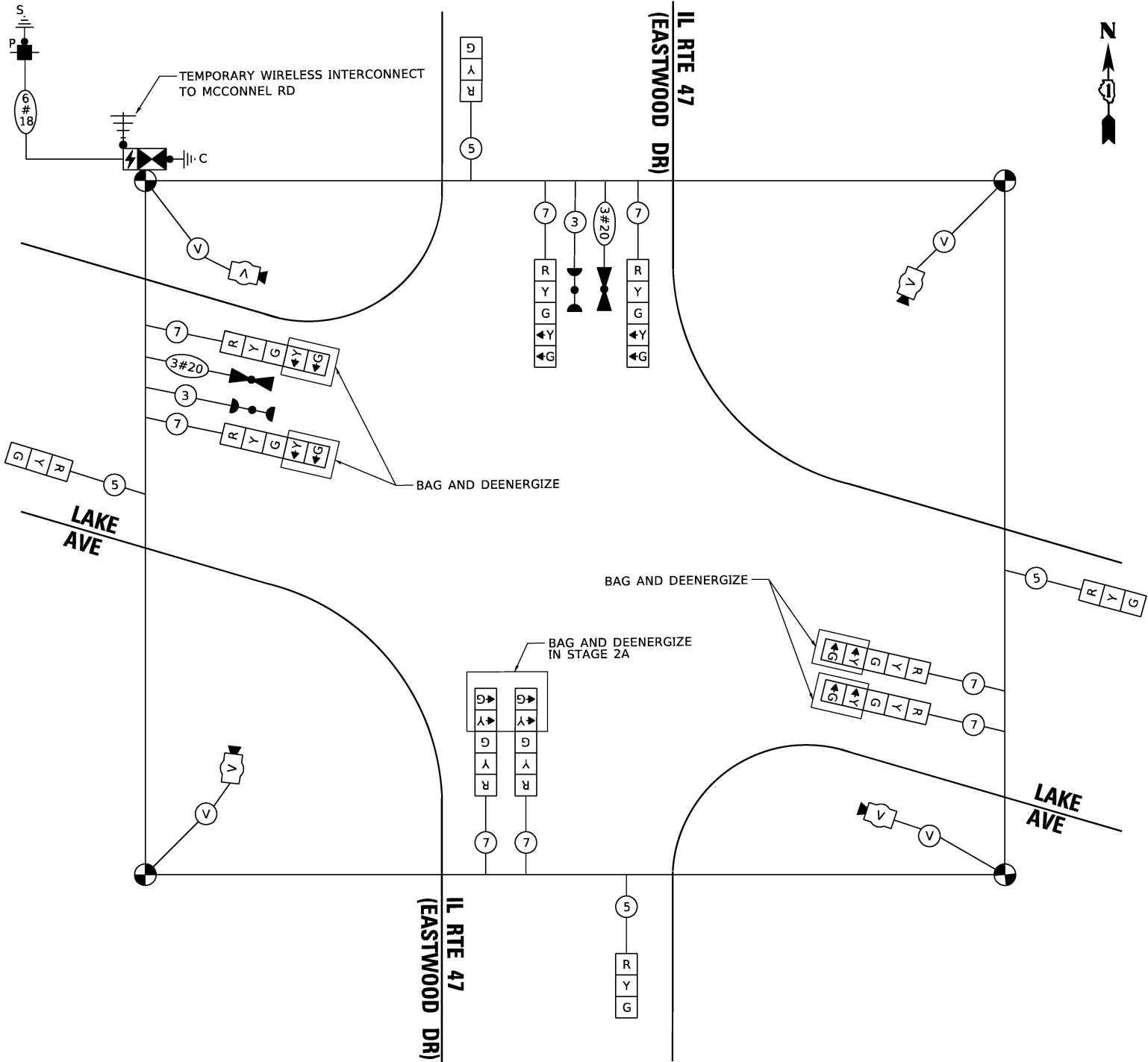
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (SHEET 3 OF 3)  
IL RTE 47 (EASTWOOD DR) AND LAKE AVE

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 766       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 7325  
ECON 167



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1

EACH

CONTROLLER AND CABINET (COMPLETE)
- 4

EACH

STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
- 4

EACH

TRAFFIC SIGNAL POST
- 4

EACH

3-SECTION SIGNAL HEAD
- 8

EACH

5-SECTION SIGNAL HEAD
- 1

EACH

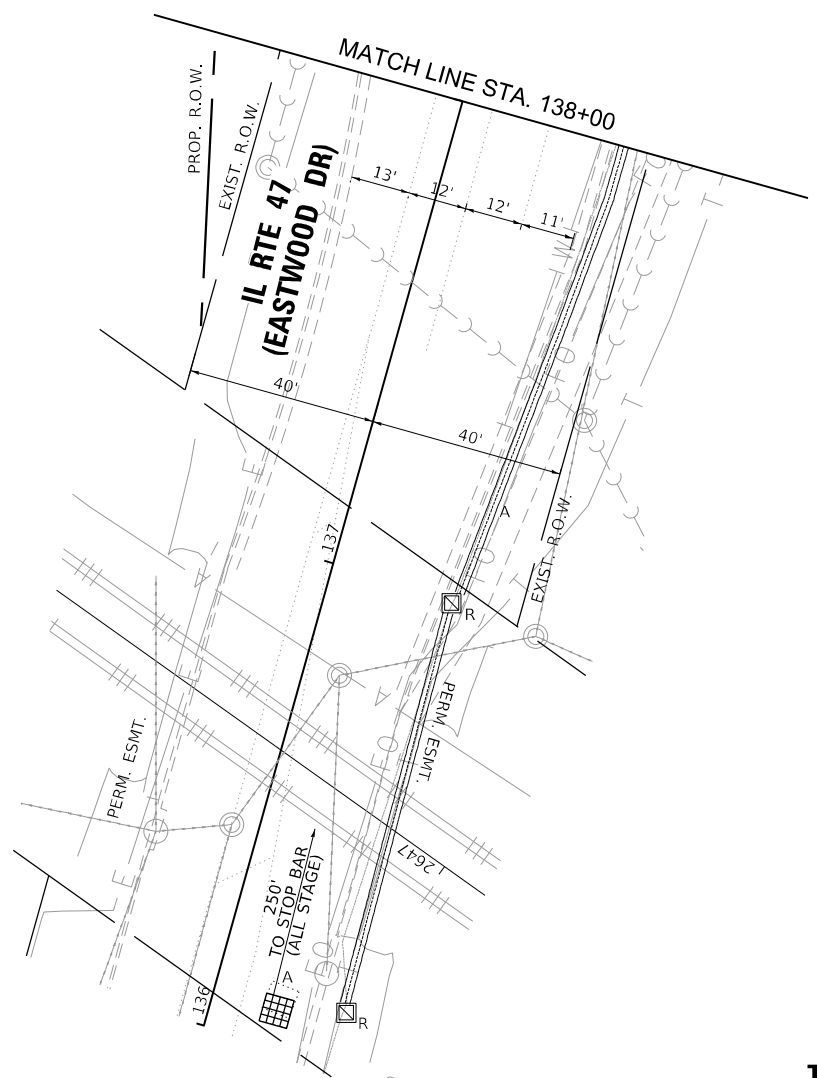
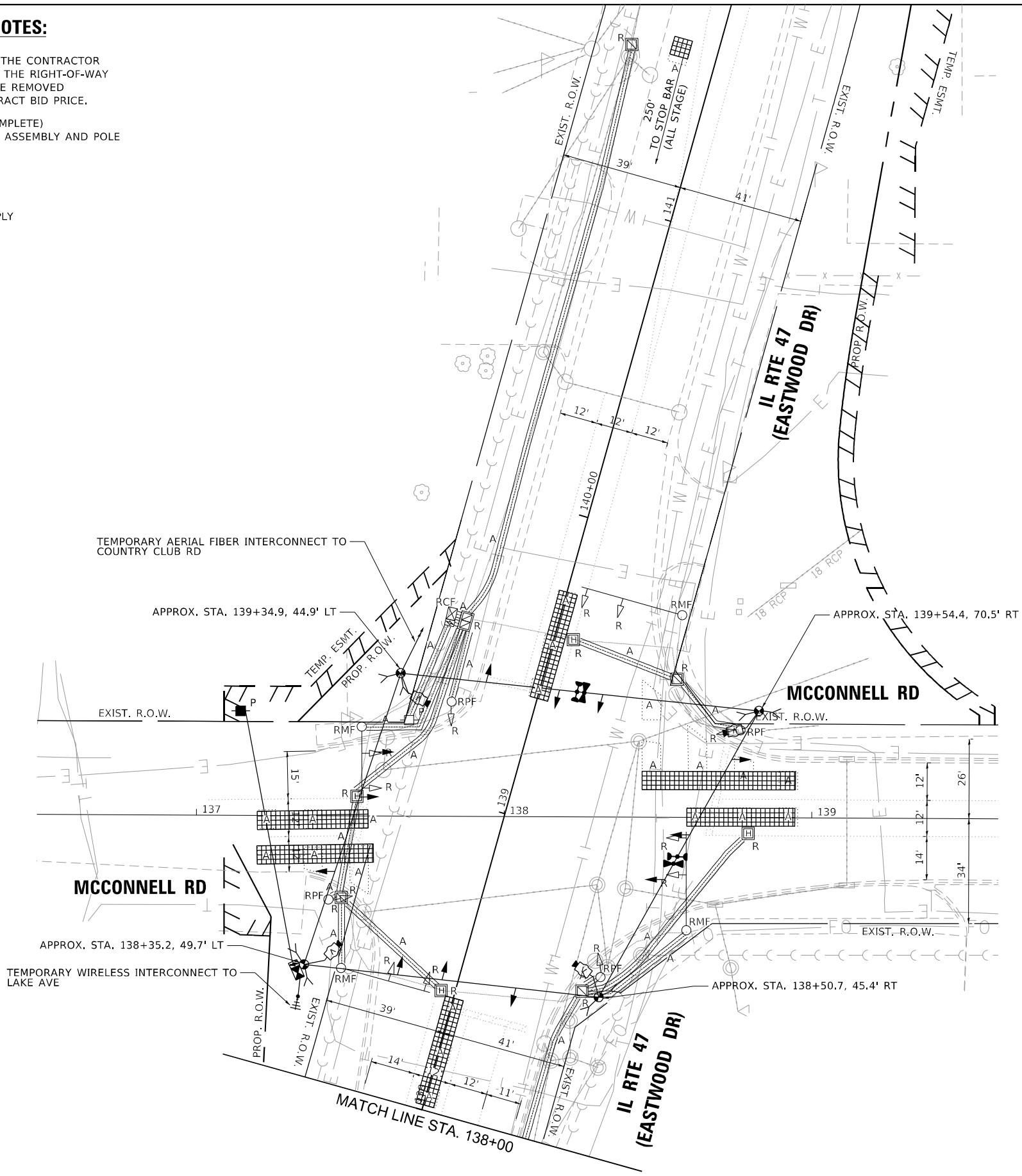
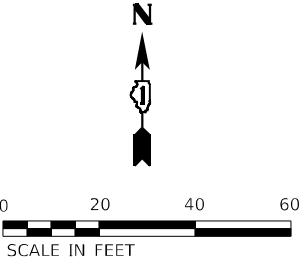
SERVICE INSTALLATION
- 8

EACH

TRAFFIC SIGNAL BACKPLATE
- 1

EACH

UNINTERRUPTABLE POWER SUPPLY



TS SHT NO. 32

TS 7323  
ECON 167

MODEL: Default  
FILE NAME: p:\data\con-cs-sw\w\benley.com\AECOM\_DS21\_NA\_2020\Documents\60627011-IL-171900-CAD\03\_SHEETS\Traffic\_Signal\IL-47\_McConnell\_Rd & Temp-1.dgn

ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|            |                   |          |              |         |   |
|------------|-------------------|----------|--------------|---------|---|
| USER NAME  | = nsalehian       | DESIGNED | - NS         | REVISED | - |
| DRAWN      | - NS              | REVIS    | -            | REVIS   | - |
| PLOT SCALE | = 40,0000 * / in. | CHECKED  | - TS         | REVIS   | - |
| PLOT DATE  | = 2/6/2025        | DATE     | - 02/06/2025 | REVIS   | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND  
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
IL RTE 47 (EASTWOOD DR) AND MCCONNELL RD

|        |       |    |        |      |    |      |
|--------|-------|----|--------|------|----|------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO | STA. |
|--------|-------|----|--------|------|----|------|

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 767       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS SHT NO. 33

MODEL: Default  
FILE NAME: p:\data\con-ns\sw\_bentley.com\AECOM\_DS21\_NA\_2020\Documents\60637011-IL-171900-CAD\03\_00\_CAD\03\_SHEETS\Traffic\_Signal\IL-17\_McConnell Temp PreStageB.dgn



**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
|                              | DRAWN - NS        | REVISED - |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

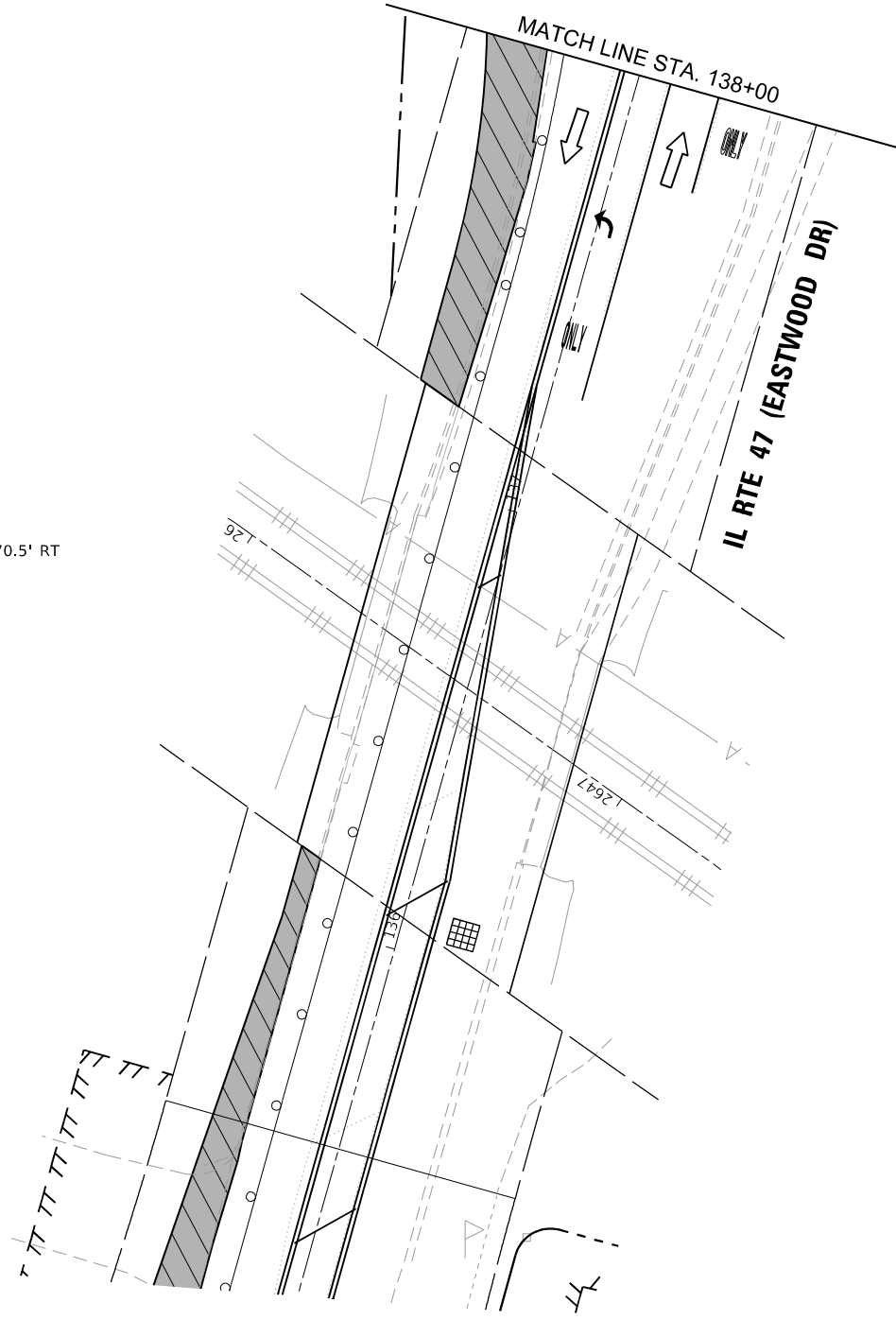
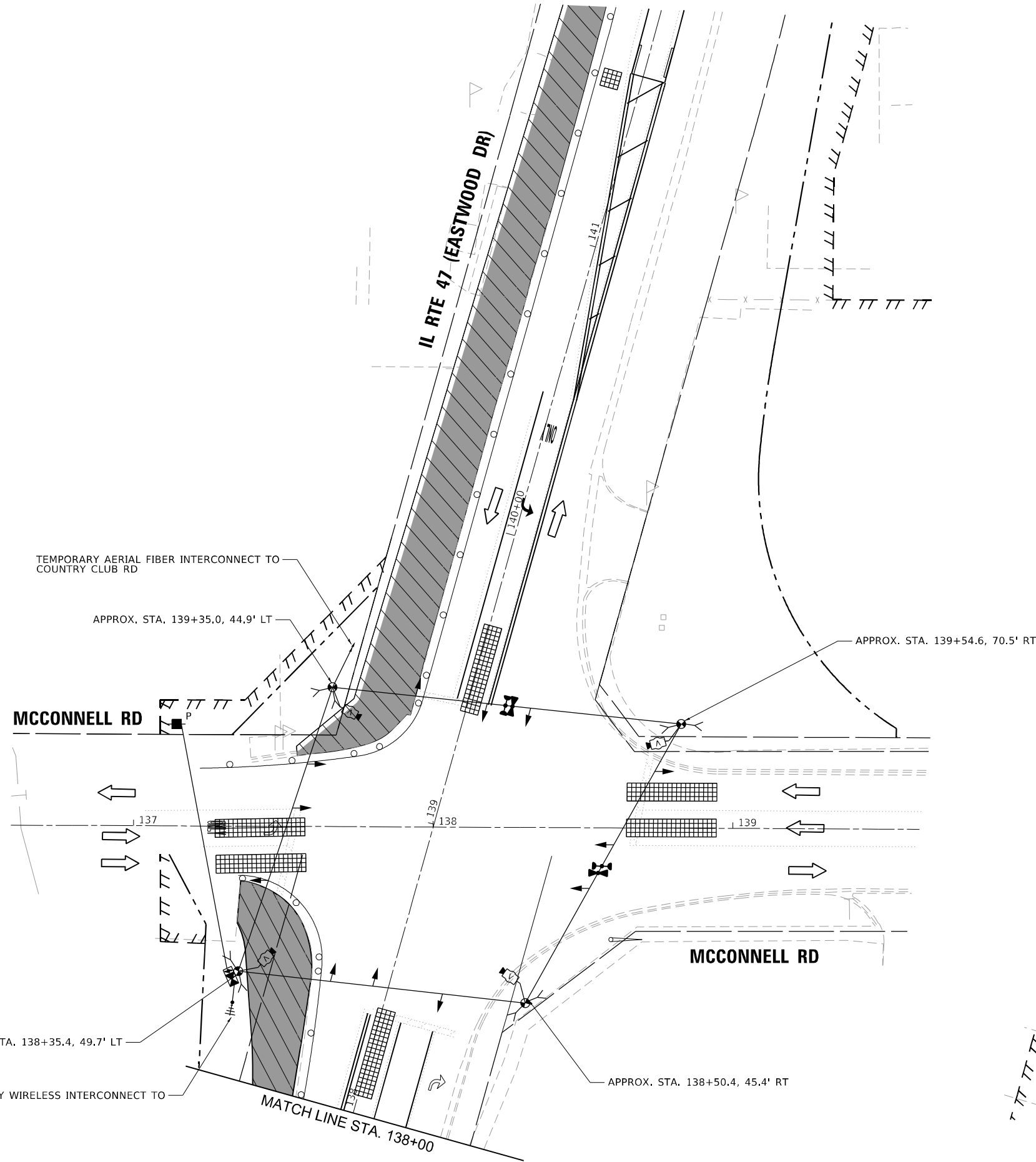
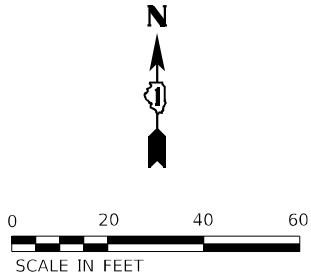
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|-------------------|-----------|
| DESIGNED - NS     | REVISED - |
| DRAWN - NS        | REVISED - |
| CHECKED - TS      | REVISED - |
| DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – PRESTAGE B  
IL RTE 47 (EASTWOOD DR) AND MCCONNELL RD

SCALE: SHEET OF SHEETS STA. TO STA.

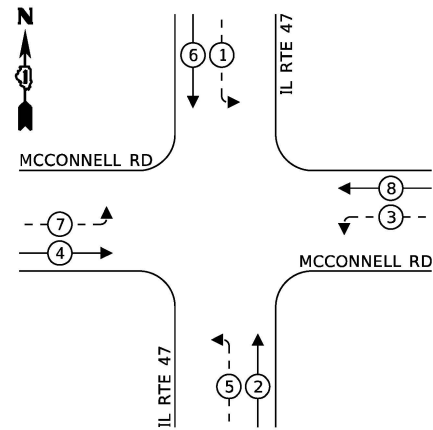
| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 768       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |



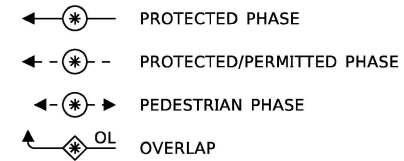
TS 7323  
ECON 167



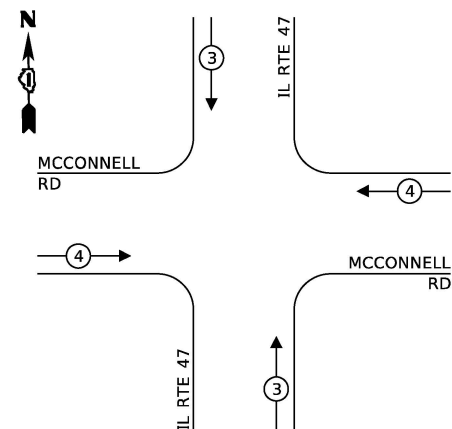
### TEMPORARY CONTROLLER SEQUENCE (PRESTAGE B)



**LEGEND:**



## TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE (PRESTAGE B)



| TRAFFIC SIGNAL<br>ELECTRICAL SERVICE REQUIREMENTS |          |                 |                  |
|---------------------------------------------------|----------|-----------------|------------------|
| TYPE                                              | QUANTITY | UNIT<br>WATTAGE | TOTAL<br>WATTAGE |
| SIGNAL HEAD 3 - SECTION                           | 4        | 11              | 44.0             |
| 4 - SECTION                                       | -        | 14              | -                |
| 5 - SECTION                                       | 8        | 13              | 104.0            |
| PROGRAMMABLE SIGNALS                              |          |                 | -                |
| 3 - SECTION                                       | -        | 22              | -                |
| 4 - SECTION                                       | -        | 32              | -                |
| 5 - SECTION                                       | -        | 28              | -                |
| PED. SIGNAL                                       | -        | 15              | -                |
| CONTROLLER                                        | 1        | 150             | 150.0            |
| MASTER CONTROLLER                                 | -        | 100             | -                |
| UPS                                               | 1        | 25              | 25.0             |
| DETECTION RADAR                                   | -        | 20              | -                |
| VIDEO                                             | 1        | 20              | 20.0             |
| BLANK-OUT SIGN                                    | -        | 25              | -                |
| NETWORK SWITCH II OR III                          | -        | 35              | -                |
| CELLULAR MODEM                                    | -        | 15              | -                |
| TOTAL UPS SIZING =                                |          |                 | 343.0            |
| UPS CHARGING                                      | 1        | 225             | 225.0            |
| BATTERY HEATER MAT                                | 1        | 180             | 180.0            |
| CABINET HEATER                                    | 1        | 200             | 200.0            |
| FLASHER                                           | 1        | 15              | 15.0             |
| LED STREET NAME SIGN                              | -        | 120             | -                |
| LUMINAIRE                                         | -        | 240             | -                |
|                                                   |          |                 | 963.0            |

ENERGY COSTS TO:  
CITY OF WOODSTOCK  
121 W. CALHOUN STREET  
WOODSTOCK, IL 60098

ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS  
PHONE: 630-424-5704  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

## **SCHEDULE OF QUANTITIES**

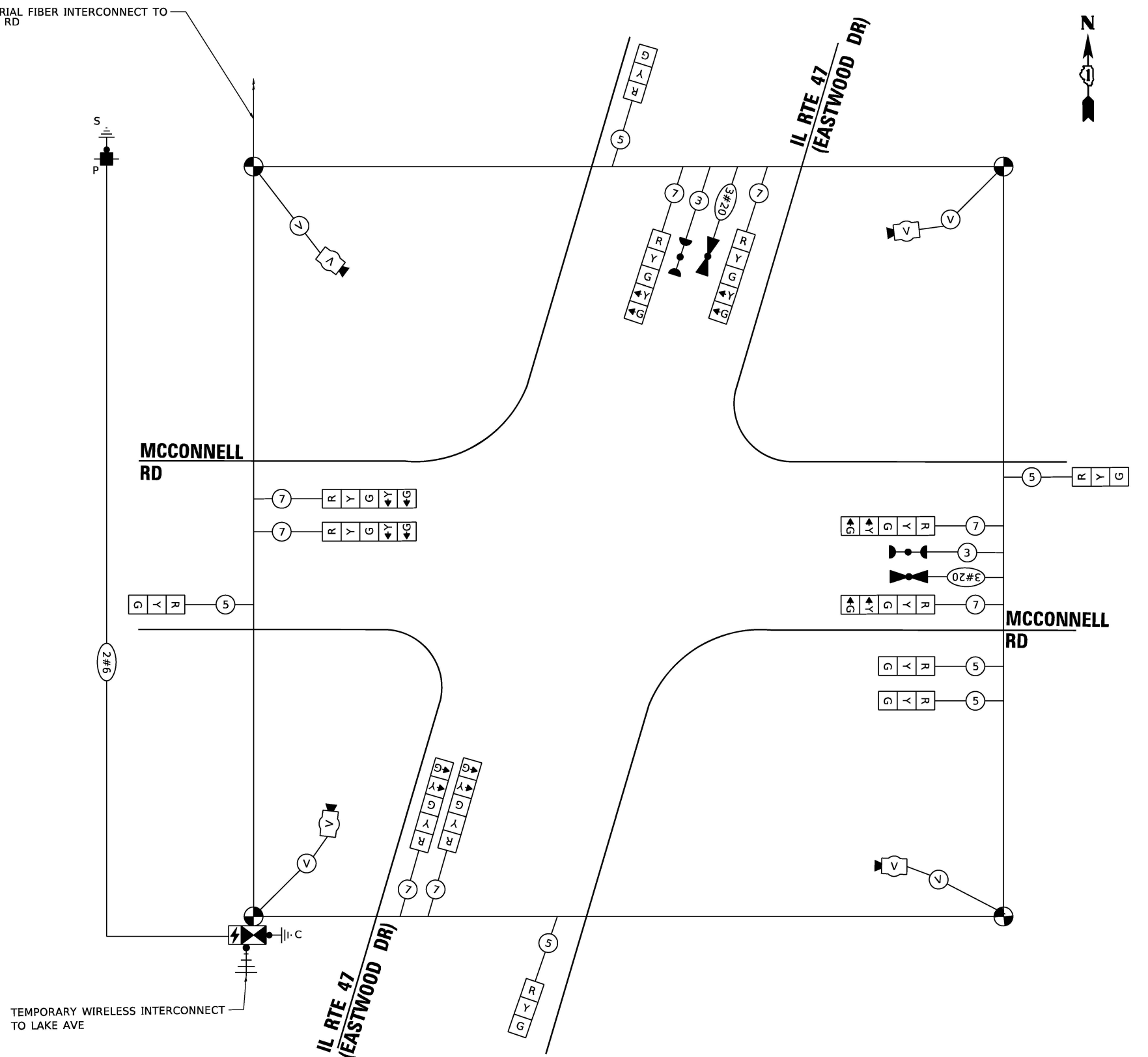
| ITEM DESCRIPTION                         | UNIT | TOTAL QTY |
|------------------------------------------|------|-----------|
| TEMPORARY TRAFFIC SIGNAL INSTALLATION    | EACH | 1         |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1         |
| REMOVE EXISTING HANDHOLE                 | EACH | 10        |
| REMOVE EXISTING DOUBLE HANDHOLE          | EACH | 1         |
| REMOVE EXISTING CONCRETE FOUNDATION      | EACH | 9         |
| TEMPORARY TRAFFIC SIGNAL TIMING          | EACH | 1         |

**CABLE PLAN**  
**(PRESTAGE B)**

(NOT TO SCALE)

TS SHT NO. 34

MODEL: Default  
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 FILE: E NAME: nu\vaeromoda-nw hantlar.com\4FCOM\_DS21



TEMPORARY WIRELESS INTERCONNECT  
TO LAKE AVE

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 47 (EASTWOOD DR) AND MCCONNELL RD**

|                |                      |                    |                  |              |
|----------------|----------------------|--------------------|------------------|--------------|
| F.A.P.<br>RTE. | SECTION              | COUNTY             | TOTAL<br>SHEETS  | SHEET<br>NO. |
| 326            | 2024-1052-N,C,SW,FL. | MCHENRY            | 941              | 769          |
|                |                      | CONTRACT NO. 62X94 |                  |              |
|                |                      | ILLINOIS           | FED. AID PROJECT |              |

TS 7325  
CON 167

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|            |                   |
|------------|-------------------|
| USER NAME  | = nsalehian       |
| PLOT SCALE | = 40,0000 ' / in. |
| PLOT DATE  | = 2/6/2025        |

|          |   |            |
|----------|---|------------|
| DESIGNED | - | NS         |
| DRAWN    | - | NS         |
| CHECKED  | - | TS         |
| DATE     | - | 02/06/2025 |

|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

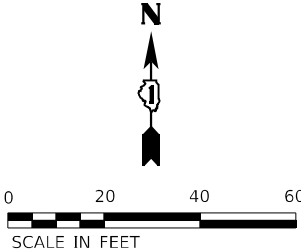
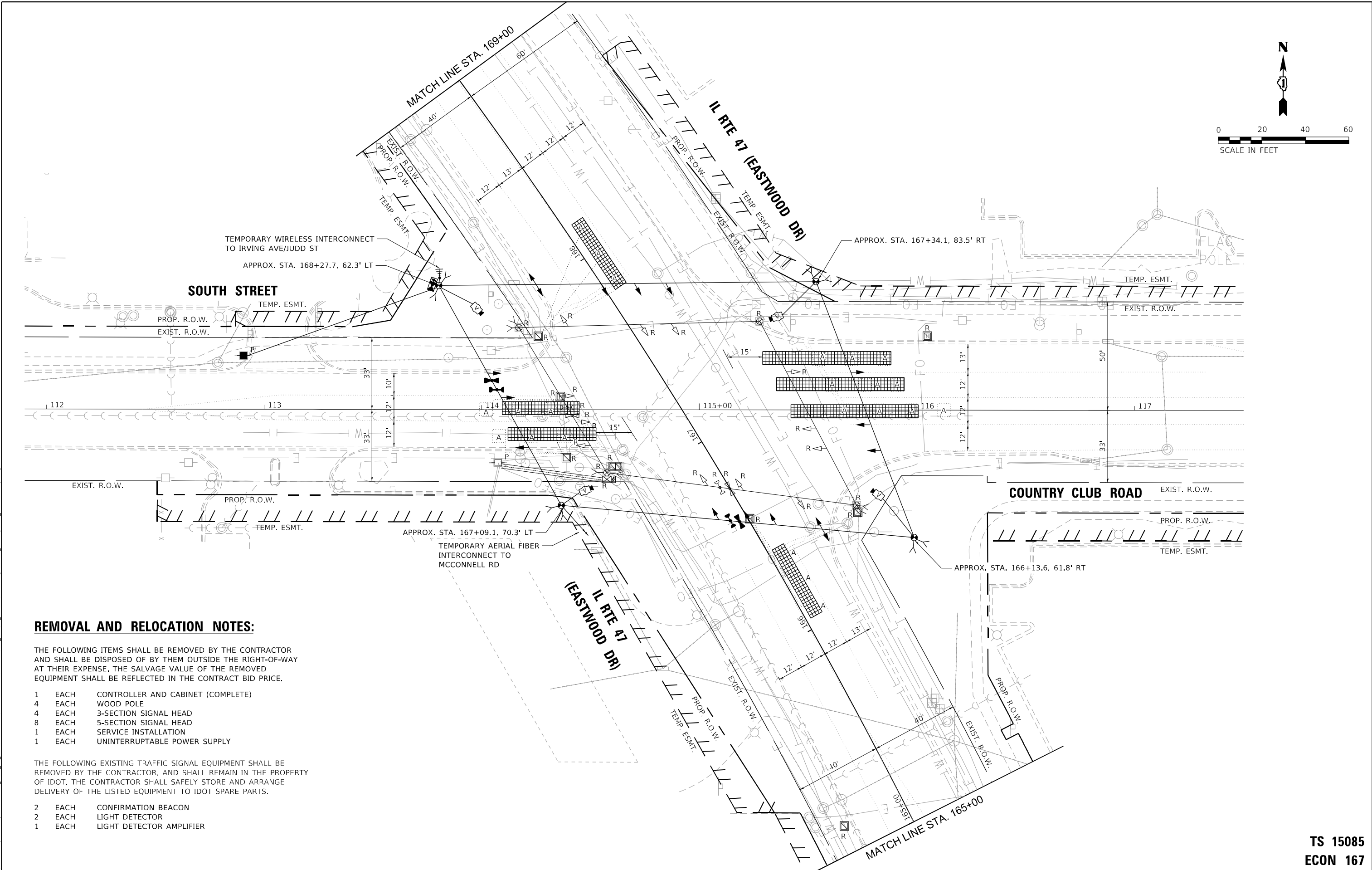
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|                                                                                                                                                                          |       |    |        |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|--------|--------------|
| <p align="center"><b>TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,<br/>AND EMERGENCY VEHICLE PREEMPTION SEQUENCE<br/>IL RTE 47 (EASTWOOD DR) AND MCCONNELL RD</b></p> |       |    |        |              |
| SCALE:                                                                                                                                                                   | SHEET | OF | SHEETS | STA. TO STA. |

|                |                      |                    |                  |              |
|----------------|----------------------|--------------------|------------------|--------------|
| F.A.P.<br>RTE. | SECTION              | COUNTY             | TOTAL<br>SHEETS  | SHEET<br>NO. |
| 326            | 2024-1052-N,C,SW,FL. | MCHENRY            | 941              | 769          |
|                |                      | CONTRACT NO. 62X94 |                  |              |
|                |                      | ILLINOIS           | FED. AID PROJECT |              |



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**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 4 EACH WOOD POLE
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 1 EACH UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, AND SHALL REMAIN IN THE PROPERTY OF IDOT. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE DELIVERY OF THE LISTED EQUIPMENT TO IDOT SPARE PARTS.

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

**TS 15085  
ECON 167**



|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| DRAWN - NS                   | REVISED -         |           |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND  
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 770       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

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**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

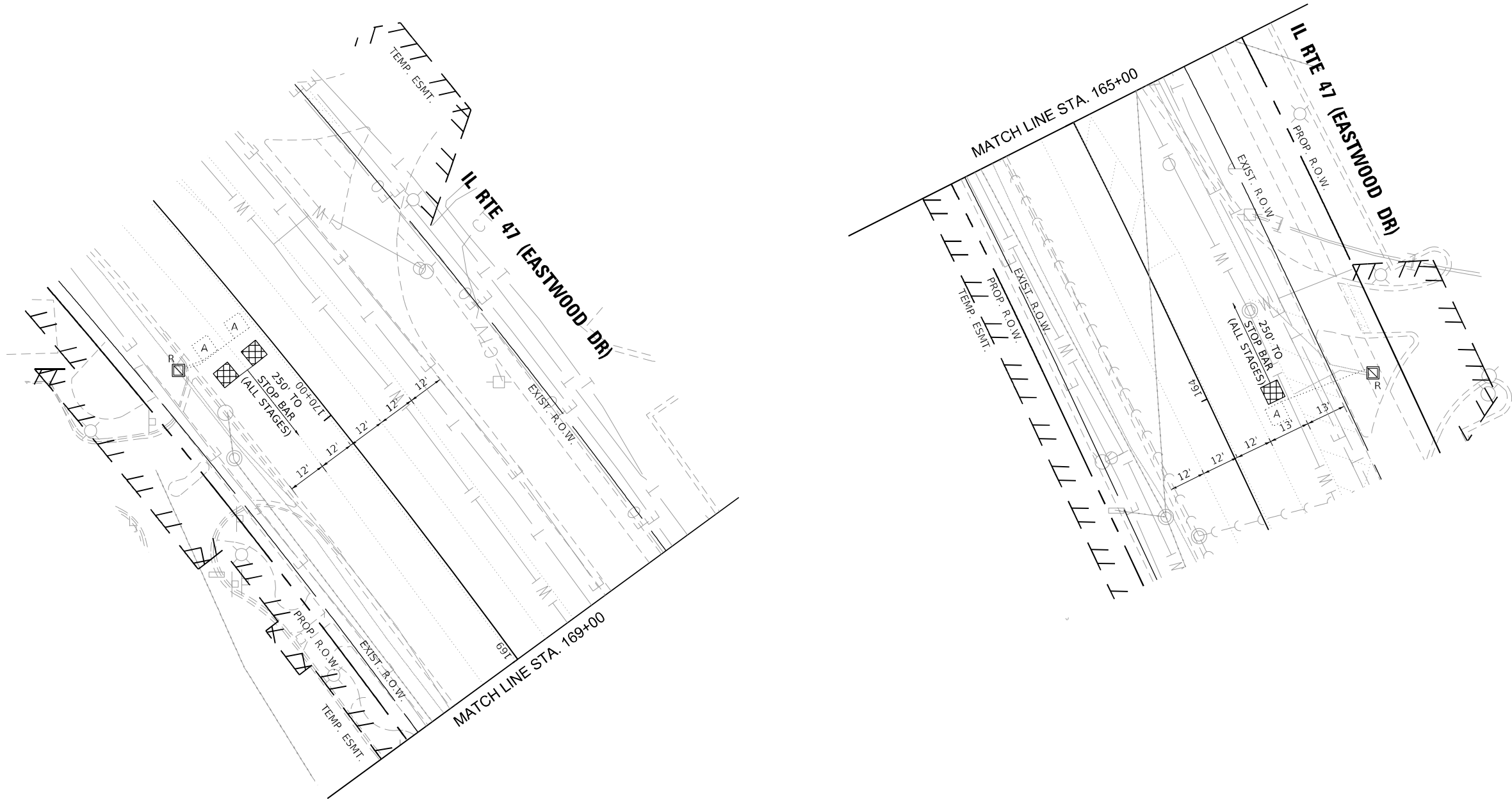
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|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| DRAWN - NS                   | REVISED -         |           |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND  
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 771       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |



MODEL: Default  
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|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| DRAWN - NS                   | REVISED -         |           |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

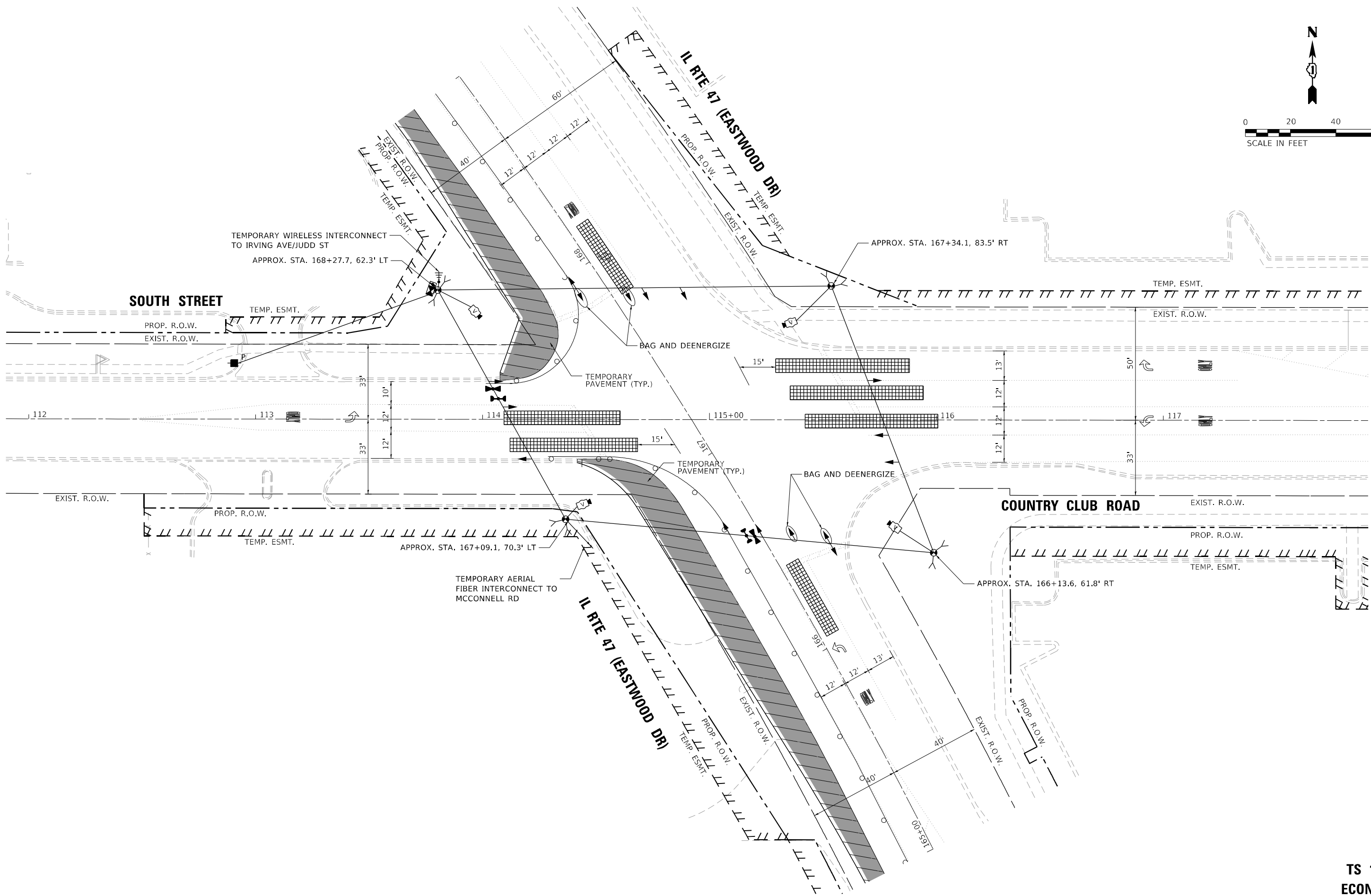
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – PRESTAGE B  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 772       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15085  
ECON 167



MODEL: Default  
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DATE: 2/6/2025

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|            |                   |
|------------|-------------------|
| USER NAME  | = nsalehian       |
| PLOT SCALE | = 40,0000 * / in. |
| PLOT DATE  | = 2/6/2025        |

|            |            |
|------------|------------|
| DESIGNED - | NS         |
| DRAWN -    | NS         |
| CHECKED -  | TS         |
| DATE -     | 02/06/2025 |

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| REVISED - |  |
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| REVISED - |  |
| REVISED - |  |

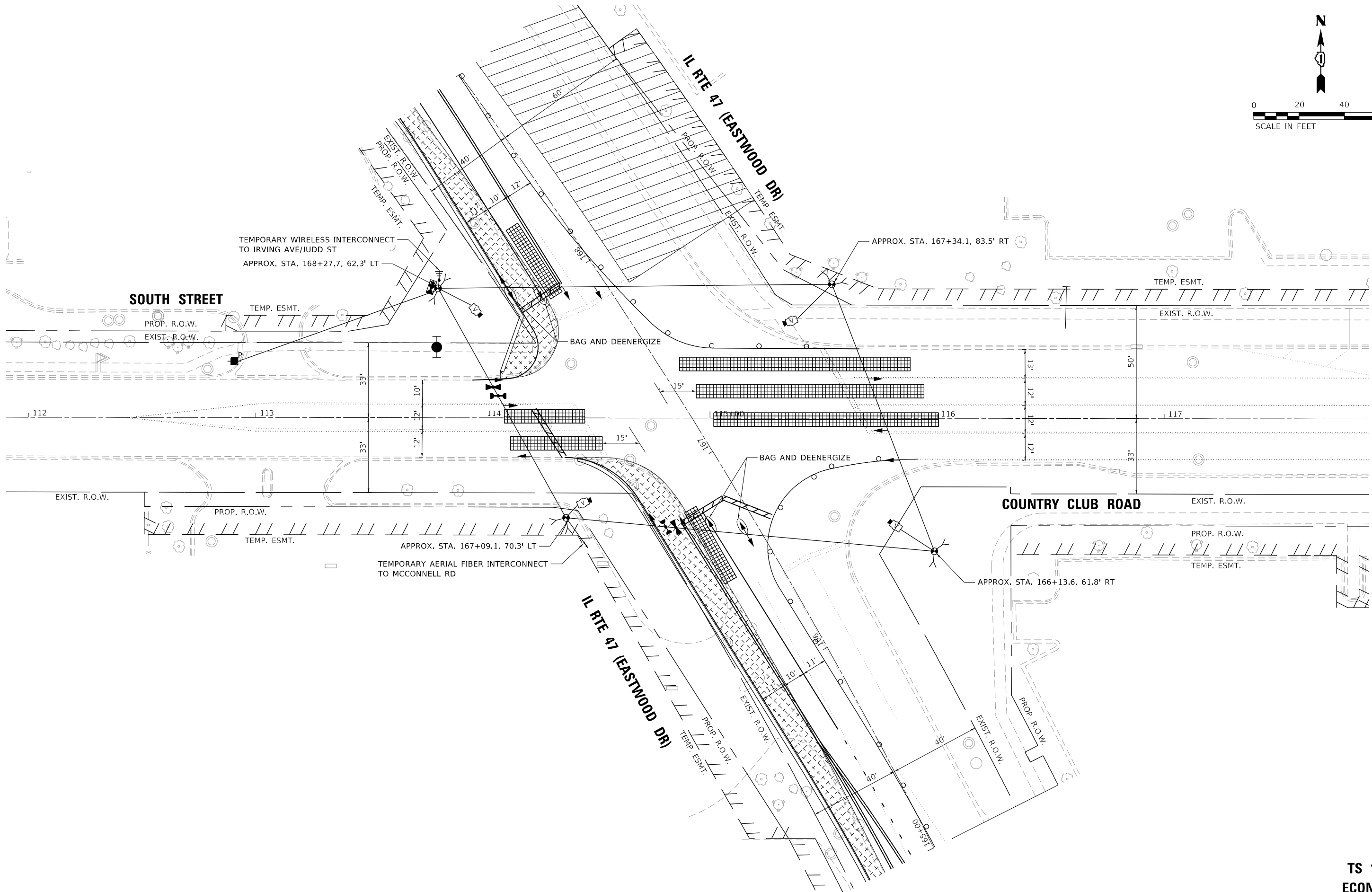
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 1A  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

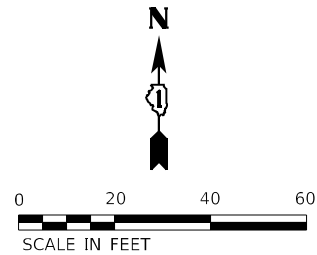
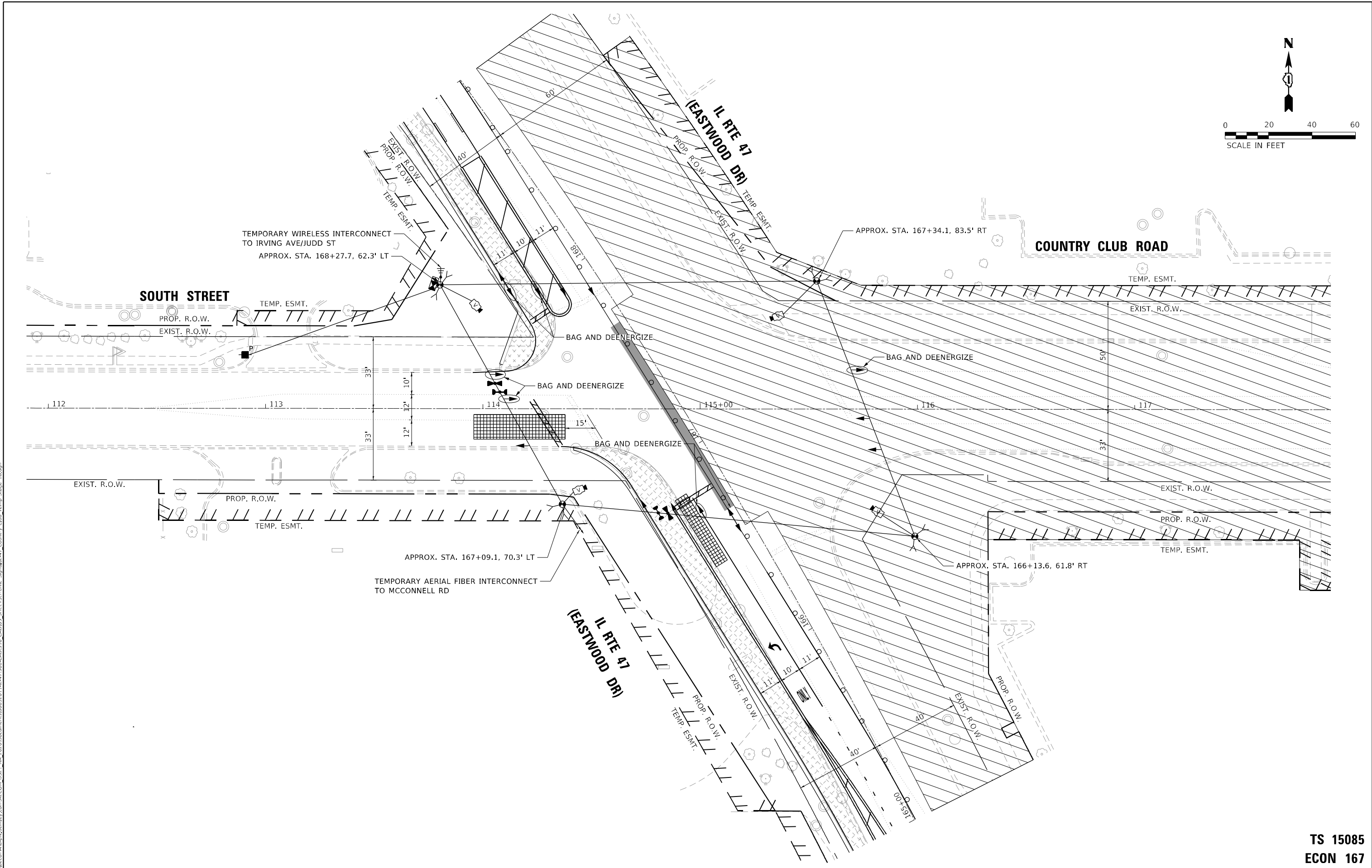
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 773       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15085  
ECON 167



MODEL: Default  
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**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| DRAWN - NS                   | REVISED -         |           |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

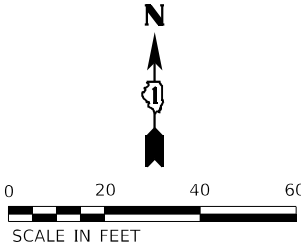
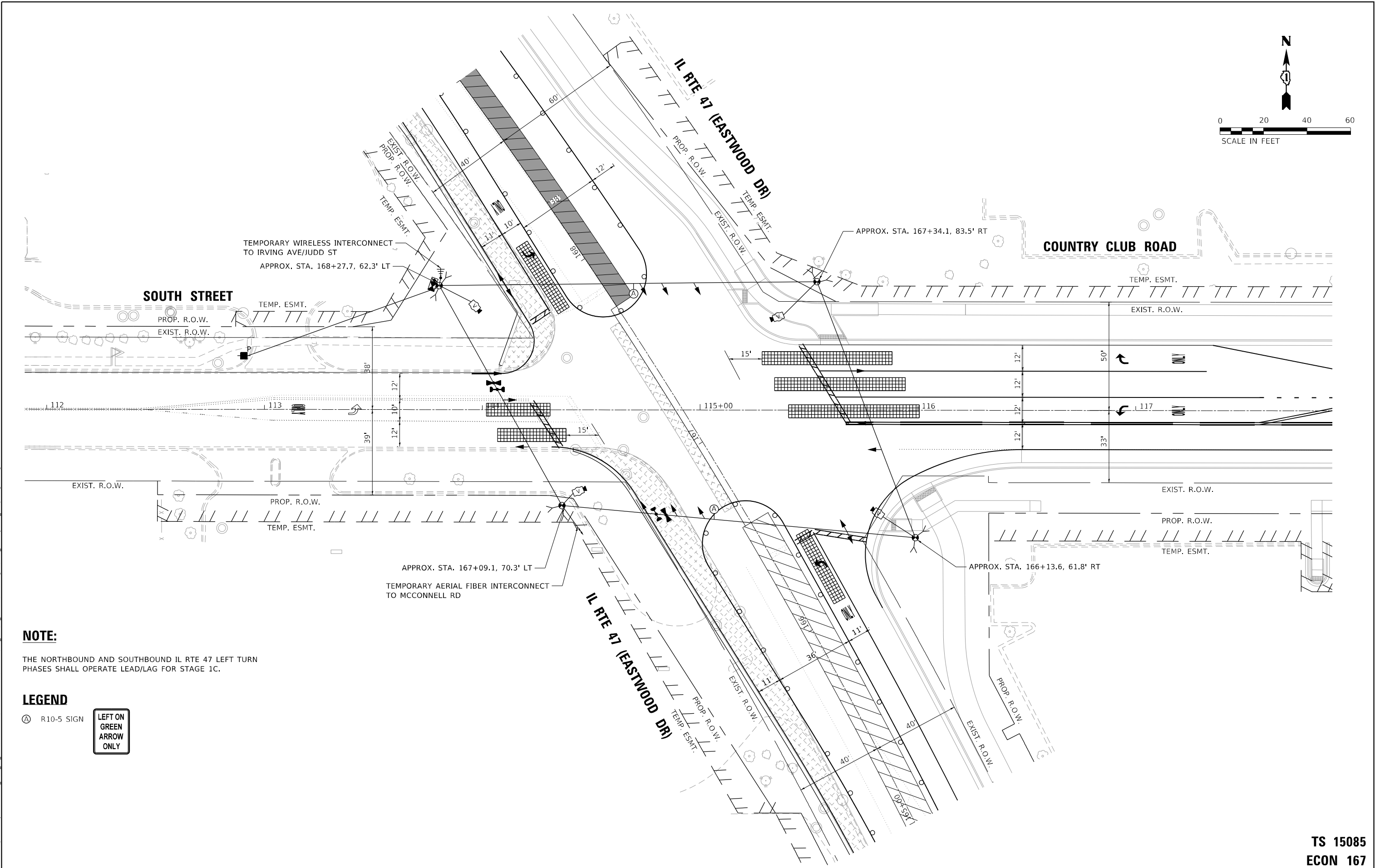
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 1B  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 774       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15085  
ECON 167

MODEL: Default  
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**NOTE:**

THE NORTHBOUND AND SOUTHBOUND IL RTE 47 LEFT TURN PHASES SHALL OPERATE LEAD/LAG FOR STAGE 1C.

**LEGEND**

Ⓐ R10-5 SIGN

LEFT ON  
GREEN  
ARROW  
ONLY



|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
|                              | DRAWN - NS        | REVISED - |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 1C  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 775       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15085  
ECON 167



MODEL: Default  
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|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
|                              | DRAWN - NS        | REVISED - |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

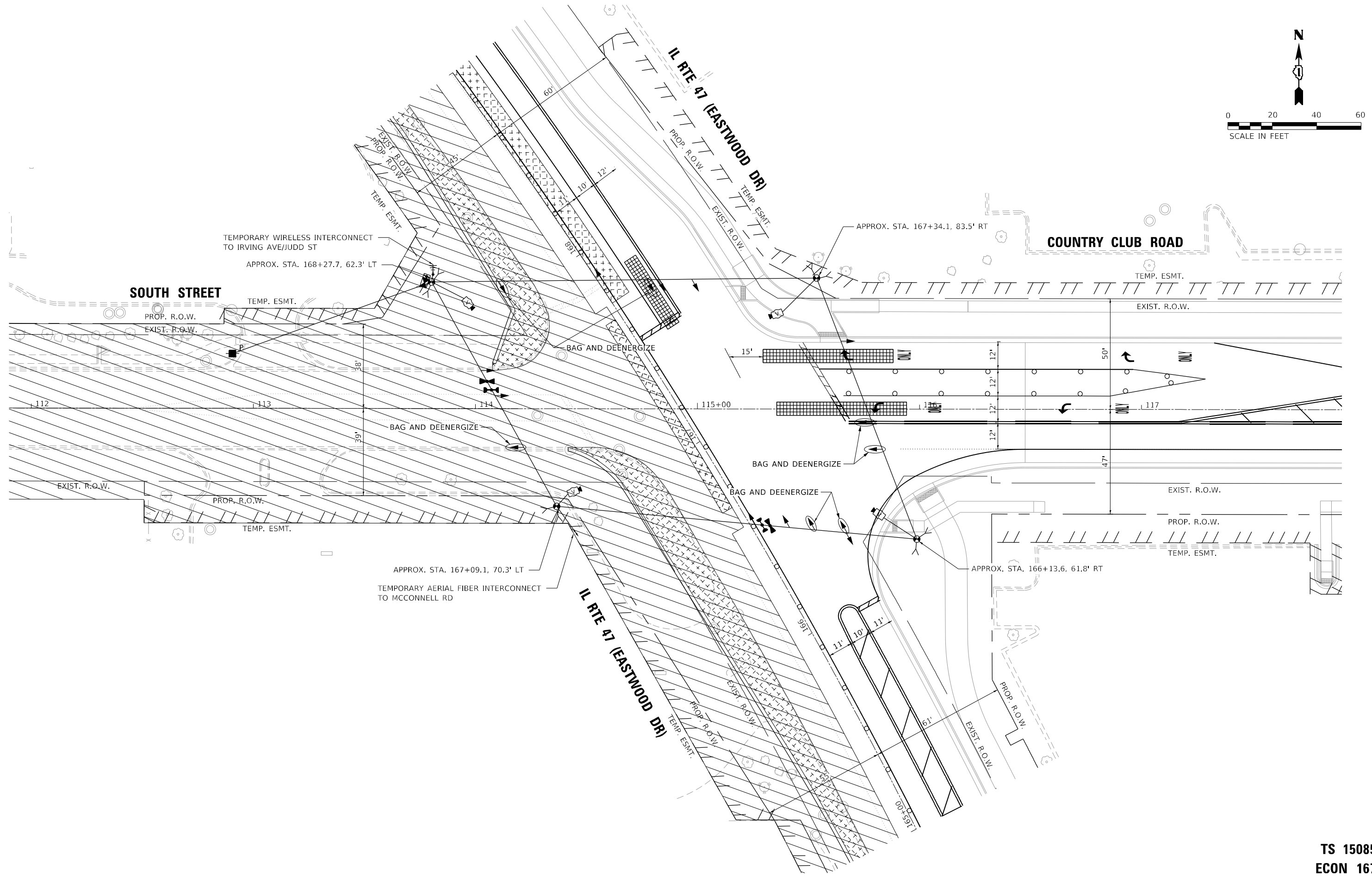
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 2A  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

SCALE: SHEET OF SHEETS STA. TO STA.

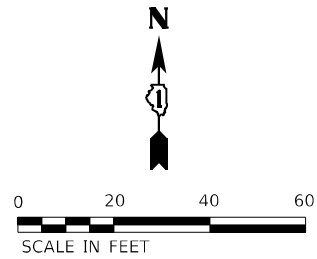
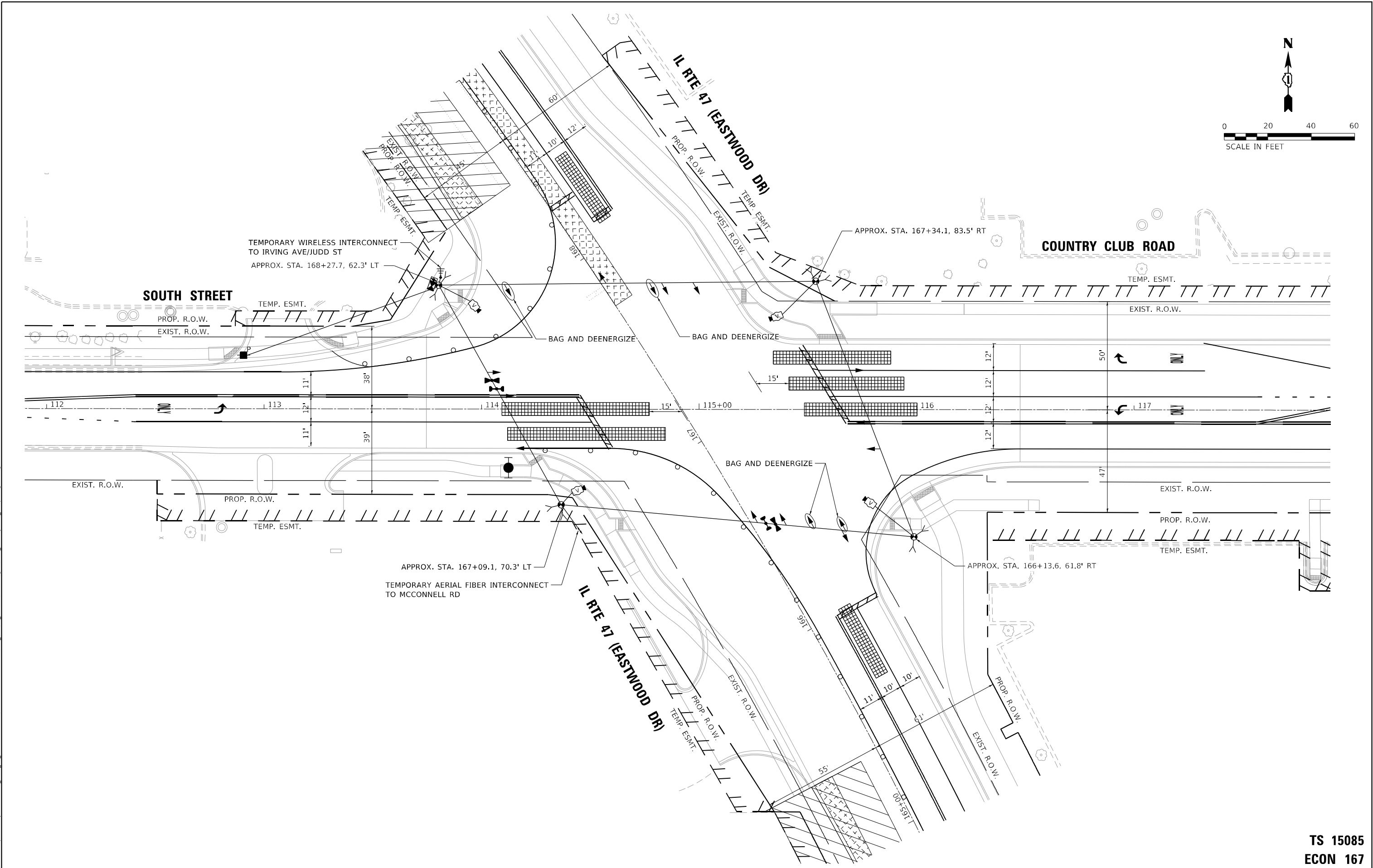
| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 776       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15085  
ECON 167





MODEL: Default  
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**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
|                              | DRAWN - NS        | REVISED - |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

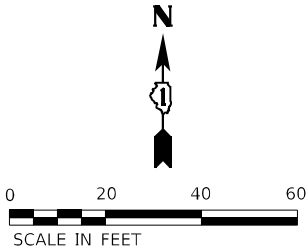
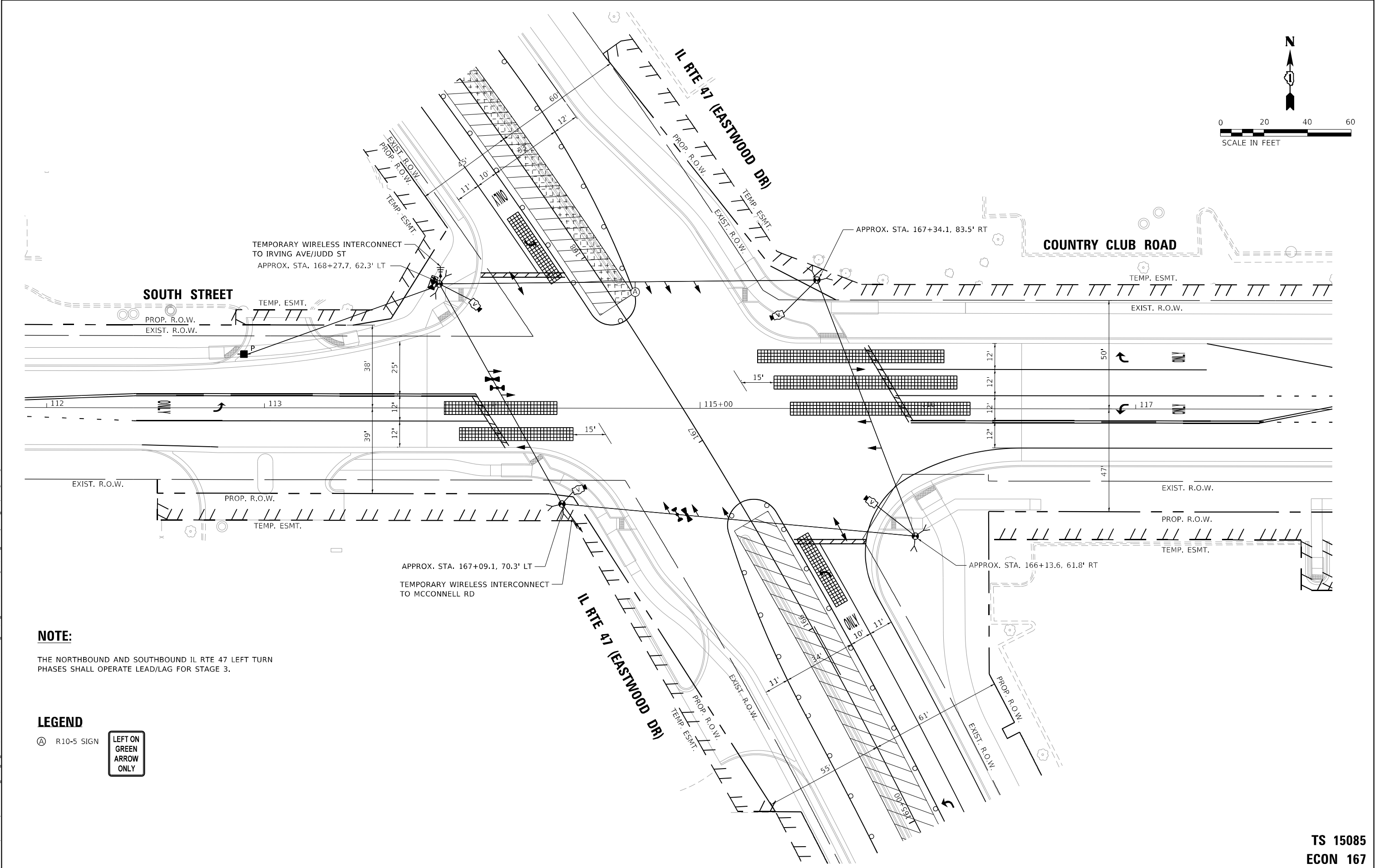
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 2B  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

|        |       |    |        |      |    |      |
|--------|-------|----|--------|------|----|------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO | STA. |
|--------|-------|----|--------|------|----|------|

| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 777       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

MODEL: Default  
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**NOTE:**

THE NORTHBOUND AND SOUTHBOUND IL RTE 47 LEFT TURN PHASES SHALL OPERATE LEAD/LAG FOR STAGE 3.

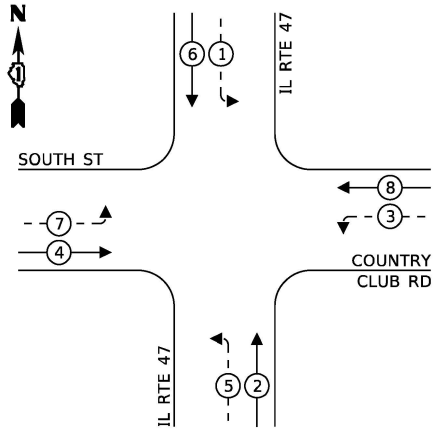
**LEGEND**

Ⓐ R10-5 SIGN

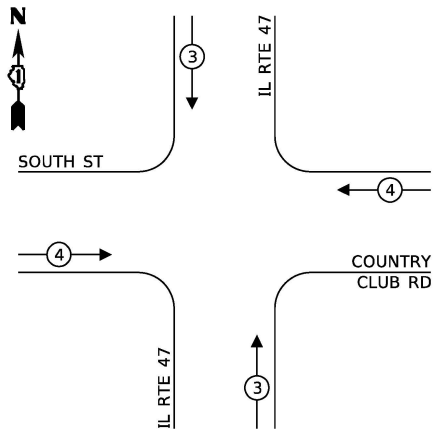
LEFT ON  
GREEN  
ARROW  
ONLY

MODEL: Default  
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SHEET: 15085-167-44  
DATE: 2/6/2025  
DRAWN BY: nsalehian  
CHECKED BY: TS  
DATE: 02/06/2025

**TEMPORARY CONTROLLER SEQUENCE  
(PRE STAGE A & B, STAGE 1A, & 2B)**



**TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE  
(PRE STAGE A & B, STAGE 1A, & 2B)**



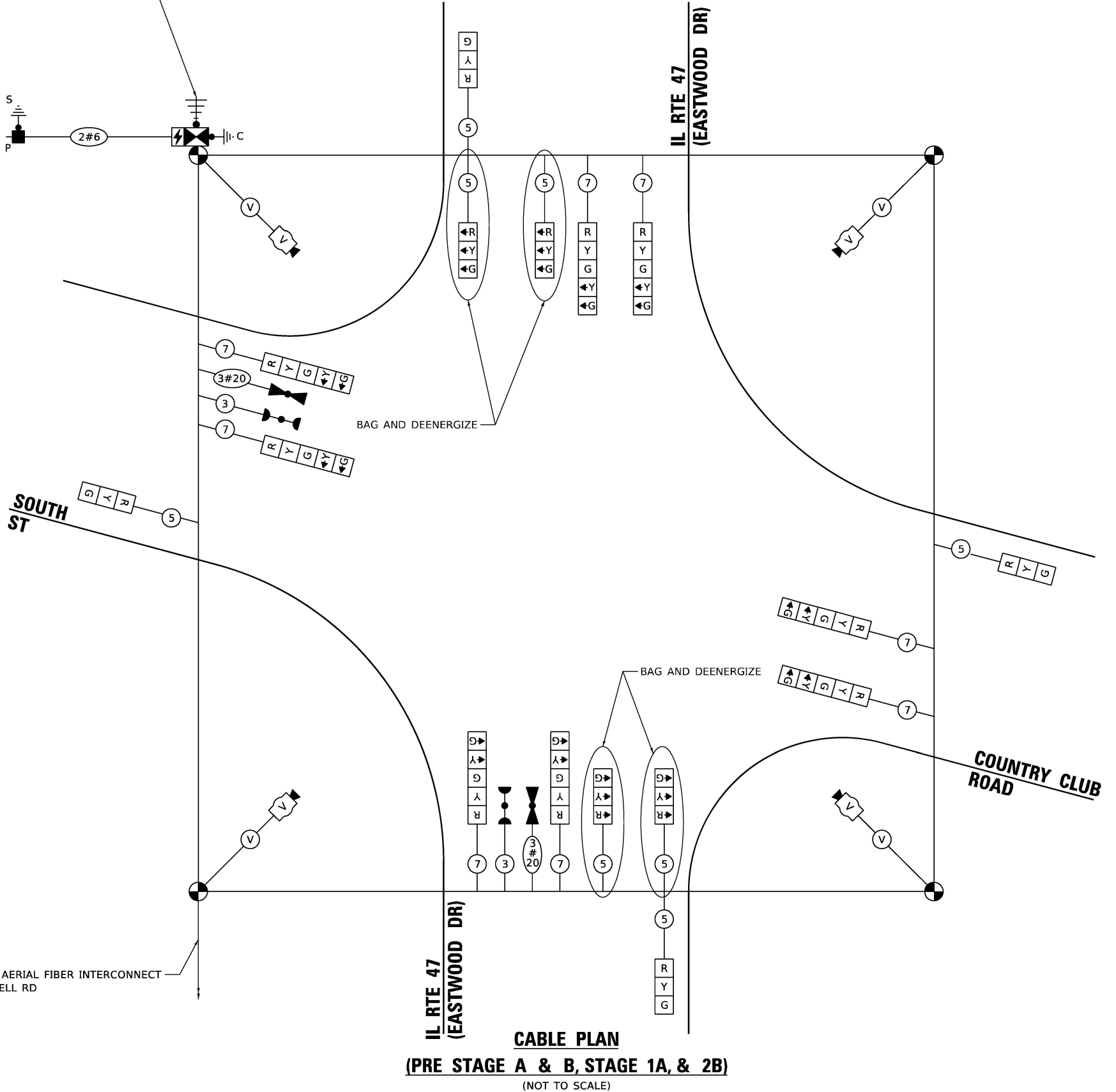
| TRAFFIC SIGNAL<br>ELECTRIC SERVICE REQUIREMENTS                                                                                                                                                                |          |      |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------|
| TYPE                                                                                                                                                                                                           | QUANTITY | UNIT | TOTAL |
| SIGNAL HEAD 3 - SECTION                                                                                                                                                                                        | 4        | 11   | 44    |
| 4 - SECTION                                                                                                                                                                                                    |          | 14   |       |
| 5 - SECTION                                                                                                                                                                                                    | 8        | 13   | 104   |
| PROGRAMMABLE SIGNAL HEAD                                                                                                                                                                                       |          |      |       |
| 3 - SECTION                                                                                                                                                                                                    |          | 22   |       |
| 4 - SECTION                                                                                                                                                                                                    |          | 32   |       |
| 5 - SECTION                                                                                                                                                                                                    |          | 28   |       |
| PED. SIGNAL                                                                                                                                                                                                    |          | 15   |       |
| CONTROLLER                                                                                                                                                                                                     | 1        | 150  | 150   |
| MASTER CONTROLLER                                                                                                                                                                                              |          | 100  |       |
| UPS                                                                                                                                                                                                            | 1        | 25   | 25    |
| DETECTION RADAR                                                                                                                                                                                                |          | 20   |       |
| VIDEO                                                                                                                                                                                                          | 1        | 20   | 20    |
| BLANK-OUT SIGN                                                                                                                                                                                                 |          | 25   |       |
| NETWORK SWITCH II OR III                                                                                                                                                                                       |          | 35   |       |
| CELLULAR MODEM                                                                                                                                                                                                 |          | 15   |       |
| TOTAL UPS SIZING                                                                                                                                                                                               |          |      | 343   |
| UPS CHARGING                                                                                                                                                                                                   | 1        | 225  | 225   |
| BATTERY HEATER MAT                                                                                                                                                                                             | 1        | 180  | 180   |
| CABINET HEATER                                                                                                                                                                                                 | 1        | 200  | 200   |
| FLASHER                                                                                                                                                                                                        | 1        | 15   | 15    |
| LED STREET NAME SIGN                                                                                                                                                                                           |          | 120  |       |
| LUMINAIRE                                                                                                                                                                                                      |          | 240  |       |
| TOTAL SERVICE WIRE SIZING                                                                                                                                                                                      |          |      | 963   |
| ENERGY COST TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098<br>ENERGY SUPPLY:<br>CONTACT: COMED<br>PHONE: (630)424-5704<br>COMPANY: COMMONWEALTH EDISON<br>ACCOUNT NUMBER: 72900-1800 |          |      |       |

**LEGEND:**

- ← ⊙ → PROTECTED PHASE
- ← ⊙ - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

TEMPORARY WIRELESS INTERCONNECT  
TO IRVING AVE/JUDD ST

TEMPORARY AERIAL FIBER INTERCONNECT  
TO MCCONNELL RD



**CABLE PLAN  
(PRE STAGE A & B, STAGE 1A, & 2B)**  
(NOT TO SCALE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

SCALE: SHEET OF SHEETS STA. TO STA.

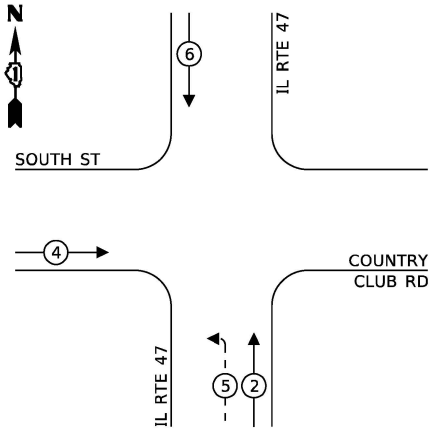
| F.A.P.<br>RTE.            | SECTION              | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|----------------------|---------|-----------------|--------------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941             | 779          |
| CONTRACT NO. 62X94        |                      |         |                 |              |
| ILLINOIS FED. AID PROJECT |                      |         |                 |              |

TS 15085  
ECON 167

MODEL: Default  
FILE NAME: j:\atlascorp\new\benley.com\AECON DS21\_NA\_2020\Documents\60632011-IL-47\900-CAD\03\_SHEETS\Traffic\_Signal\IL-47\_Country Club temp-cable-2.dgn

TEMPORARY CONTROLLER SEQUENCE

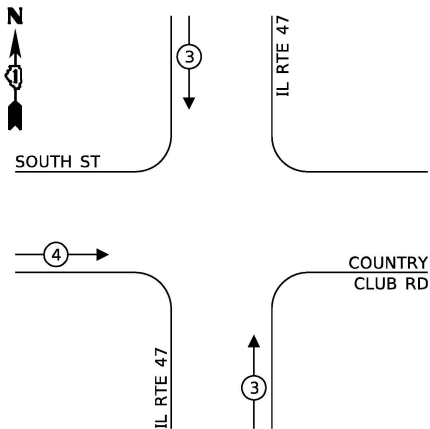
(STAGE 1B)



LEGEND:

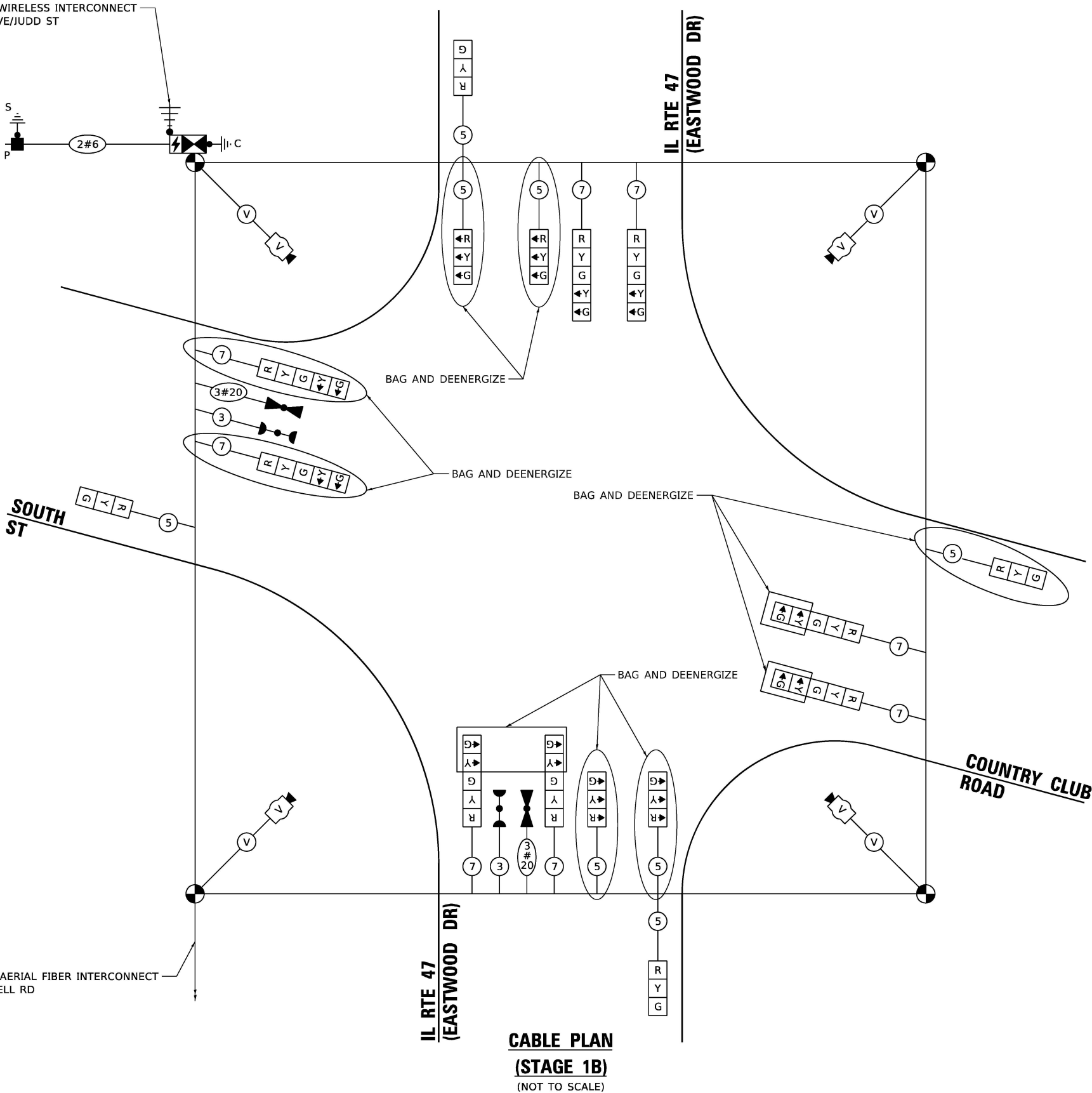
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE (STAGE 1B)



| TRAFFIC SIGNAL<br>ELECTRIC SERVICE REQUIREMENTS                                                                                                                                                                |          |      |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------|
| TYPE                                                                                                                                                                                                           | QUANTITY | UNIT | TOTAL |
| SIGNAL HEAD 3 - SECTION                                                                                                                                                                                        | 7        | 11   | 77    |
| 4 - SECTION                                                                                                                                                                                                    |          | 14   |       |
| 5 - SECTION                                                                                                                                                                                                    | 2        | 13   | 26    |
| PROGRAMMABLE SIGNAL HEAD                                                                                                                                                                                       |          |      |       |
| 3 - SECTION                                                                                                                                                                                                    |          | 22   |       |
| 4 - SECTION                                                                                                                                                                                                    |          | 32   |       |
| 5 - SECTION                                                                                                                                                                                                    |          | 28   |       |
| PED. SIGNAL                                                                                                                                                                                                    |          | 15   |       |
| CONTROLLER                                                                                                                                                                                                     | 1        | 150  | 150   |
| MASTER CONTROLLER                                                                                                                                                                                              |          | 100  |       |
| UPS                                                                                                                                                                                                            | 1        | 25   | 25    |
| DETECTION RADAR                                                                                                                                                                                                |          | 20   |       |
| VIDEO                                                                                                                                                                                                          | 1        | 20   | 20    |
| BLANK-OUT SIGN                                                                                                                                                                                                 |          | 25   |       |
| NETWORK SWITCH II OR III                                                                                                                                                                                       |          | 35   |       |
| CELLULAR MODEM                                                                                                                                                                                                 |          | 15   |       |
| TOTAL UPS SIZING                                                                                                                                                                                               |          |      | 298   |
| UPS CHARGING                                                                                                                                                                                                   | 1        | 225  | 225   |
| BATTERY HEATER MAT                                                                                                                                                                                             | 1        | 180  | 180   |
| CABINET HEATER                                                                                                                                                                                                 | 1        | 200  | 200   |
| FLASHER                                                                                                                                                                                                        | 1        | 15   | 15    |
| LED STREET NAME SIGN                                                                                                                                                                                           |          | 120  |       |
| LUMINAIRE                                                                                                                                                                                                      |          | 240  |       |
| TOTAL SERVICE WIRE SIZING                                                                                                                                                                                      |          |      | 918   |
| ENERGY COST TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098<br>ENERGY SUPPLY:<br>CONTACT: COMED<br>PHONE: (630)424-5704<br>COMPANY: COMMONWEALTH EDISON<br>ACCOUNT NUMBER: 72900-1800 |          |      |       |

TEMPORARY WIRELESS INTERCONNECT  
TO IRVING AVE/JUDD ST



CABLE PLAN

(STAGE 1B)

(NOT TO SCALE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

SCALE: SHEET OF SHEETS STA. TO STA.

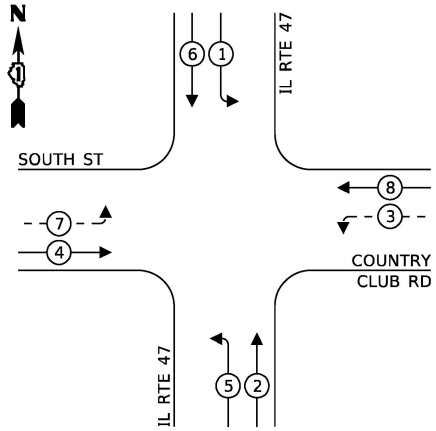
| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 780       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15085  
ECON 167

MODEL: Default  
FILE NAME: \\atlascorp\share\benlevy.com\ECON DS21\_NA\_2020\Documents\60632011-IL-47\900-CAD\03-CAD\03-Traffic\_Signal\IL-47\_Country Club temp-cable-4.dgn

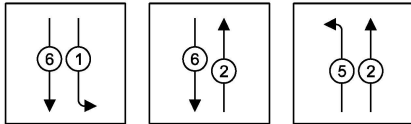
TEMPORARY CONTROLLER SEQUENCE

(STAGE 1C & 3)



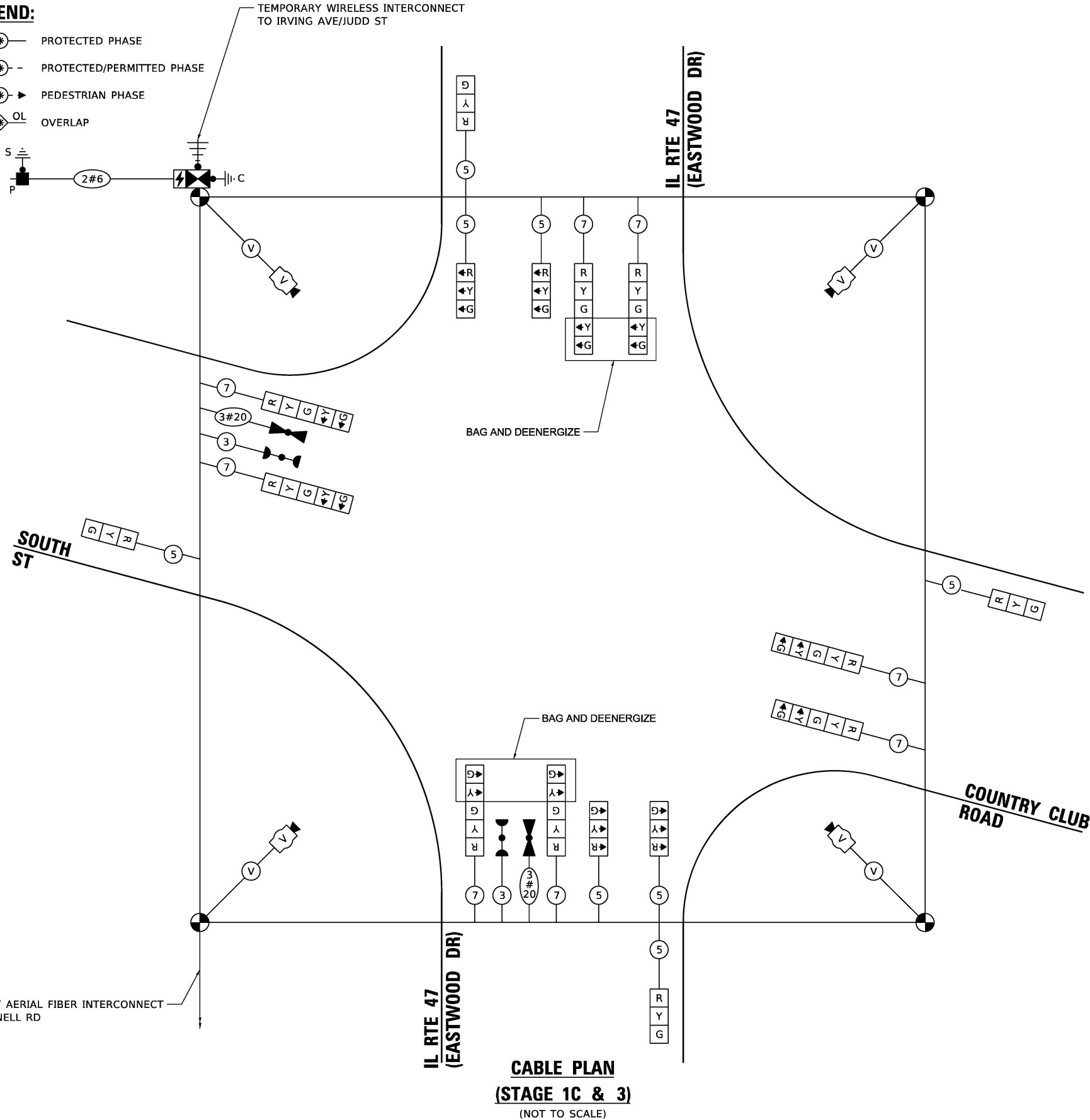
PHASE DESIGNATION DIAGRAM:

FOR PHASES 1, 2, 5, & 6 IN THE PHASE DESIGNATION DIAGRAM SHOWN TO THE LEFT, THE FOLLOWING PHASE SEQUENCE SHALL BE FOLLOWED:



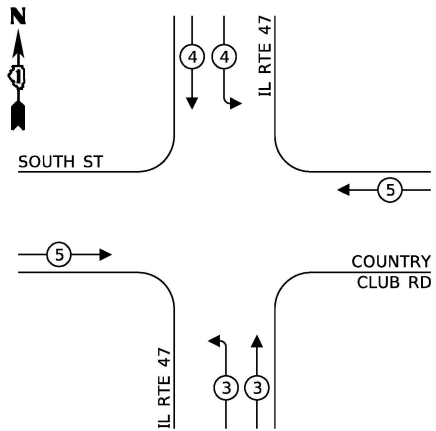
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

(STAGE 1C & 3)



| TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS                                                                                                                                     |          |      |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------|
| TYPE                                                                                                                                                                             | QUANTITY | UNIT | TOTAL |
| SIGNAL HEAD 3 - SECTION                                                                                                                                                          | 12       | 11   | 132   |
| 4 - SECTION                                                                                                                                                                      |          | 14   |       |
| 5 - SECTION                                                                                                                                                                      | 4        | 13   | 52    |
| PROGRAMMABLE SIGNAL HEAD                                                                                                                                                         |          |      |       |
| 3 - SECTION                                                                                                                                                                      |          | 22   |       |
| 4 - SECTION                                                                                                                                                                      |          | 32   |       |
| 5 - SECTION                                                                                                                                                                      |          | 28   |       |
| PED. SIGNAL CONTROLLER                                                                                                                                                           | 1        | 150  | 150   |
| MASTER CONTROLLER                                                                                                                                                                |          | 100  |       |
| UPS                                                                                                                                                                              | 1        | 25   | 25    |
| DETECTION RADAR                                                                                                                                                                  |          | 20   |       |
| VIDEO                                                                                                                                                                            | 1        | 20   | 20    |
| BLANK-OUT SIGN                                                                                                                                                                   |          | 25   |       |
| NETWORK SWITCH II OR III                                                                                                                                                         |          | 35   |       |
| CELLULAR MODEM                                                                                                                                                                   |          | 15   |       |
| TOTAL UPS SIZING                                                                                                                                                                 |          |      | 379   |
| UPS CHARGING                                                                                                                                                                     | 1        | 225  | 225   |
| BATTERY HEATER MAT                                                                                                                                                               | 1        | 180  | 180   |
| CABINET HEATER                                                                                                                                                                   | 1        | 200  | 200   |
| FLASHER                                                                                                                                                                          | 1        | 15   | 15    |
| LED STREET NAME SIGN                                                                                                                                                             |          | 120  |       |
| LUMINAIRE                                                                                                                                                                        |          | 240  |       |
| TOTAL SERVICE WIRE SIZING                                                                                                                                                        |          |      | 999   |
| ENERGY COST TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098<br>ENERGY SUPPLY:<br>CONTACT: COMED<br>PHONE: (630)424-5704<br>COMPANY: COMMONWEALTH EDISON |          |      |       |

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

USER NAME = nsalehian  
PLOT SCALE = 40.0000 ' / in.  
PLOT DATE = 2/6/2025

DESIGNED - NS  
DRAWN - NS  
CHECKED - TS  
DATE - 02/06/2025

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

SCALE: SHEET OF SHEETS STA. TO STA.

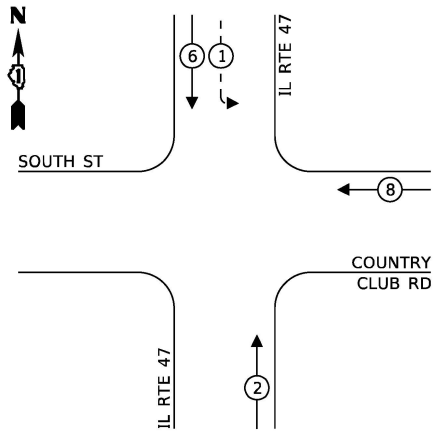
| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 781       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15085  
ECON 167

MODEL: Default  
FILE NAME: j:\atlascorp\paw\hendley.com\AECON DS21\_NA\_2020\Documents\60632011-IL-47\900-CAD\03\_SHEETS\Traffic\_Signal\IL-47\_Country Club temp-cable-3.dgn

TEMPORARY CONTROLLER SEQUENCE

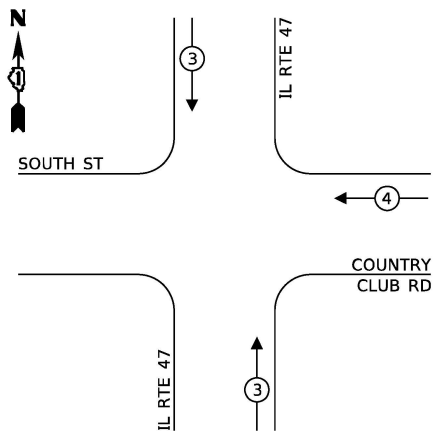
(STAGE 2A)



LEGEND:

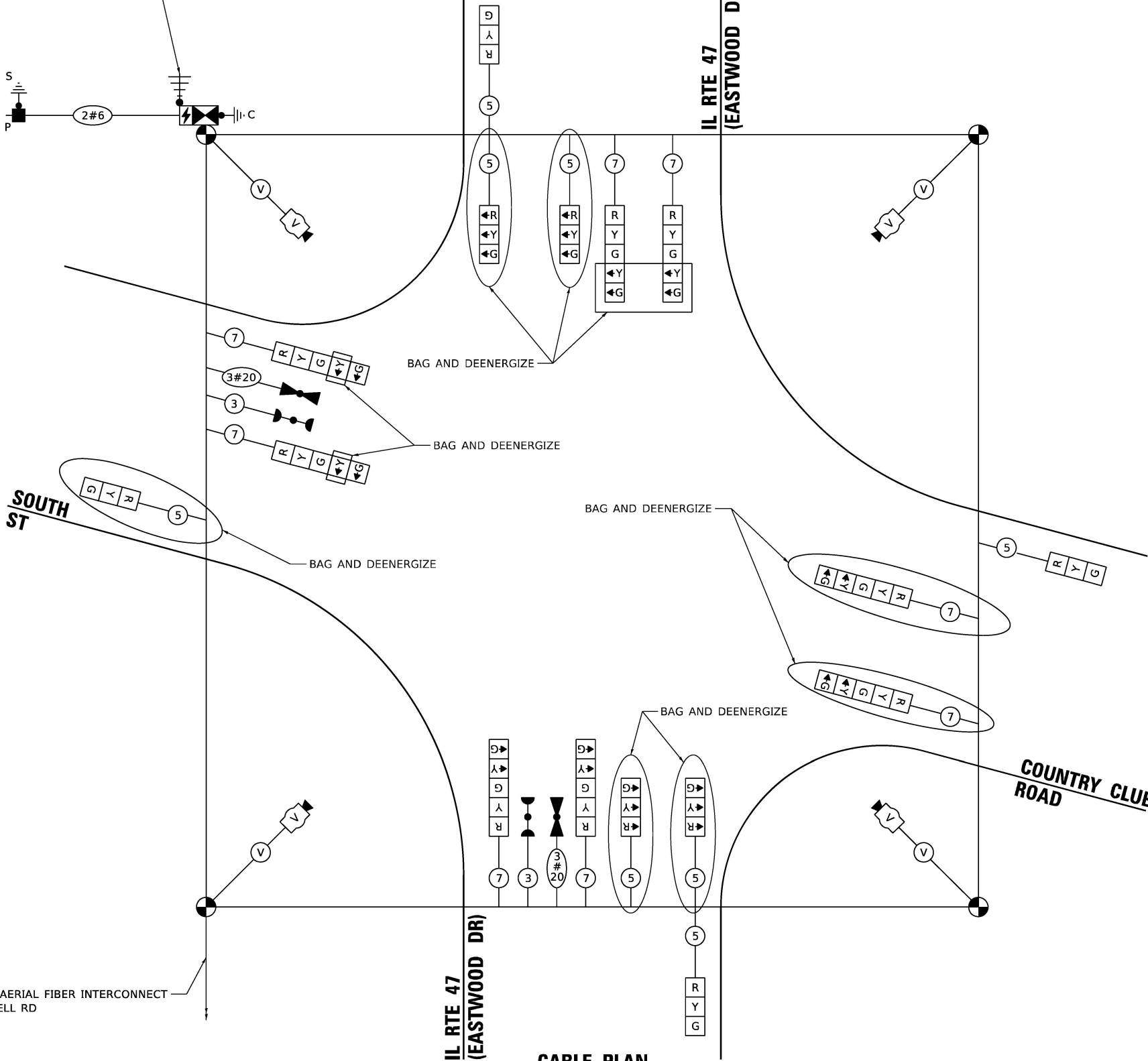
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE (STAGE 2A)



| TRAFFIC SIGNAL<br>ELECTRIC SERVICE REQUIREMENTS                                                                                                                                                                |          |      |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------|
| TYPE                                                                                                                                                                                                           | QUANTITY | UNIT | TOTAL |
| SIGNAL HEAD 3 - SECTION                                                                                                                                                                                        | 5        | 11   | 55    |
| 4 - SECTION                                                                                                                                                                                                    |          | 14   |       |
| 5 - SECTION                                                                                                                                                                                                    | 4        | 13   | 52    |
| PROGRAMMABLE SIGNAL HEAD                                                                                                                                                                                       |          |      |       |
| 3 - SECTION                                                                                                                                                                                                    |          | 22   |       |
| 4 - SECTION                                                                                                                                                                                                    |          | 32   |       |
| 5 - SECTION                                                                                                                                                                                                    |          | 28   |       |
| PED. SIGNAL                                                                                                                                                                                                    |          | 15   |       |
| CONTROLLER                                                                                                                                                                                                     | 1        | 150  | 150   |
| MASTER CONTROLLER                                                                                                                                                                                              |          | 100  |       |
| UPS                                                                                                                                                                                                            | 1        | 25   | 25    |
| DETECTION RADAR                                                                                                                                                                                                |          | 20   |       |
| VIDEO                                                                                                                                                                                                          | 1        | 20   | 20    |
| BLANK-OUT SIGN                                                                                                                                                                                                 |          | 25   |       |
| NETWORK SWITCH II OR III                                                                                                                                                                                       |          | 35   |       |
| CELLULAR MODEM                                                                                                                                                                                                 |          | 15   |       |
| TOTAL UPS SIZING                                                                                                                                                                                               |          |      | 302   |
| UPS CHARGING                                                                                                                                                                                                   | 1        | 225  | 225   |
| BATTERY HEATER MAT                                                                                                                                                                                             | 1        | 180  | 180   |
| CABINET HEATER                                                                                                                                                                                                 | 1        | 200  | 200   |
| FLASHER                                                                                                                                                                                                        | 1        | 15   | 15    |
| LED STREET NAME SIGN                                                                                                                                                                                           |          | 120  |       |
| LUMINAIRE                                                                                                                                                                                                      |          | 240  |       |
| TOTAL SERVICE WIRE SIZING                                                                                                                                                                                      |          |      | 922   |
| ENERGY COST TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098<br>ENERGY SUPPLY:<br>CONTACT: COMED<br>PHONE: (630)424-5704<br>COMPANY: COMMONWEALTH EDISON<br>ACCOUNT NUMBER: 72900-1800 |          |      |       |

TEMPORARY WIRELESS INTERCONNECT  
TO IRVING AVE/JUDD ST



CABLE PLAN

(STAGE 2A)

(NOT TO SCALE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P.<br>RTE.            | SECTION              | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|----------------------|---------|-----------------|--------------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941             | 782          |
| CONTRACT NO. 62X94        |                      |         |                 |              |
| ILLINOIS FED. AID PROJECT |                      |         |                 |              |

TS 15085  
ECON 167



MODEL: Default  
FILE NAME: p:\data\con-cs-csw-bentley.com\aecon\ds21\_na\_2020\Documents\6062701-IL-171900-CAD\03\_00\_CAD\03\_SHEETS\Traffic\_Signal\IL-47\_Country Club-signal.dgn



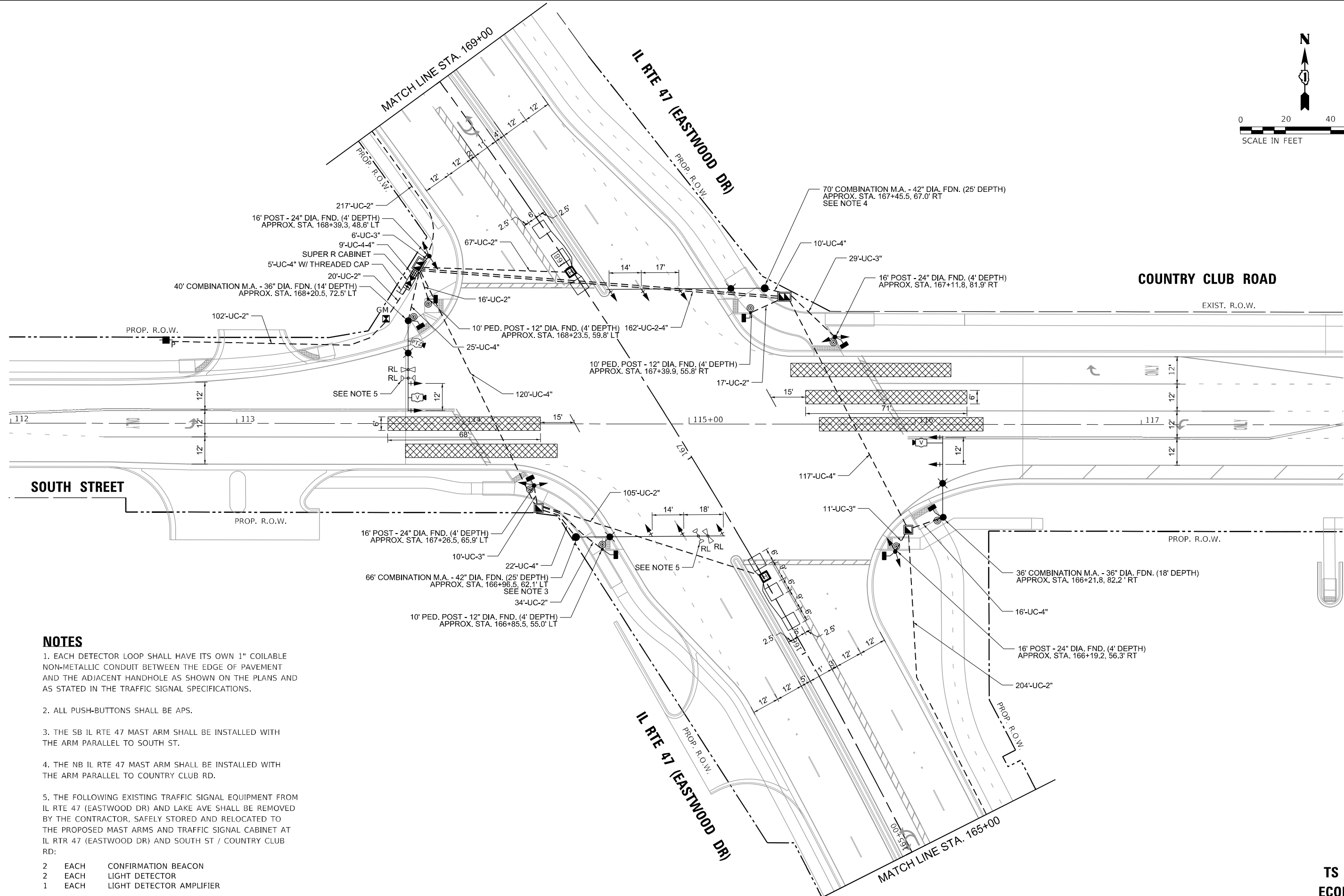
|            |                   |            |            |           |  |
|------------|-------------------|------------|------------|-----------|--|
| USER NAME  | = nsalehian       | DESIGNED - | NS         | REVISED - |  |
| DRAWN -    | NS                | REVISED -  |            |           |  |
| PLOT SCALE | = 40,0000 * / in. | CHECKED -  | TS         | REVISED - |  |
| PLOT DATE  | = 2/6/2025        | DATE -     | 02/06/2025 | REVISED - |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD  
(SHEET 1 OF 2)

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO.          |
|---------------------------|----------------------|---------|--------------|--------------------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 783                |
|                           |                      |         |              | CONTRACT NO. 62X94 |
| ILLINOIS FED. AID PROJECT |                      |         |              |                    |



NOTES

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. ALL PUSH-BUTTONS SHALL BE APS.
3. THE SB IL RTE 47 MAST ARM SHALL BE INSTALLED WITH THE ARM PARALLEL TO SOUTH ST.
4. THE NB IL RTE 47 MAST ARM SHALL BE INSTALLED WITH THE ARM PARALLEL TO COUNTRY CLUB RD.
5. THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT FROM IL RTE 47 (EASTWOOD DR) AND LAKE AVE SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CABINET AT IL RTE 47 (EASTWOOD DR) AND SOUTH ST / COUNTRY CLUB RD:

- |   |      |                          |
|---|------|--------------------------|
| 2 | EACH | CONFIRMATION BEACON      |
| 2 | EACH | LIGHT DETECTOR           |
| 1 | EACH | LIGHT DETECTOR AMPLIFIER |

TS 15085  
ECON 167



MODEL: Default  
FILE NAME: p:\data\con-ns-sw-bentley.com\AECON\_DS21\_NA\_2020\Documents\60637011-IL-171900-CAD\010\_CAD\03\_SHEETS\Traffic\_Signal\IL-47\_Country Club\_signal-2.dgn



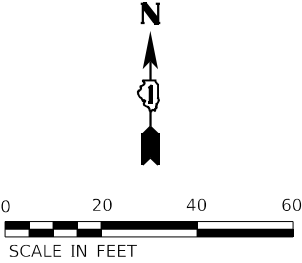
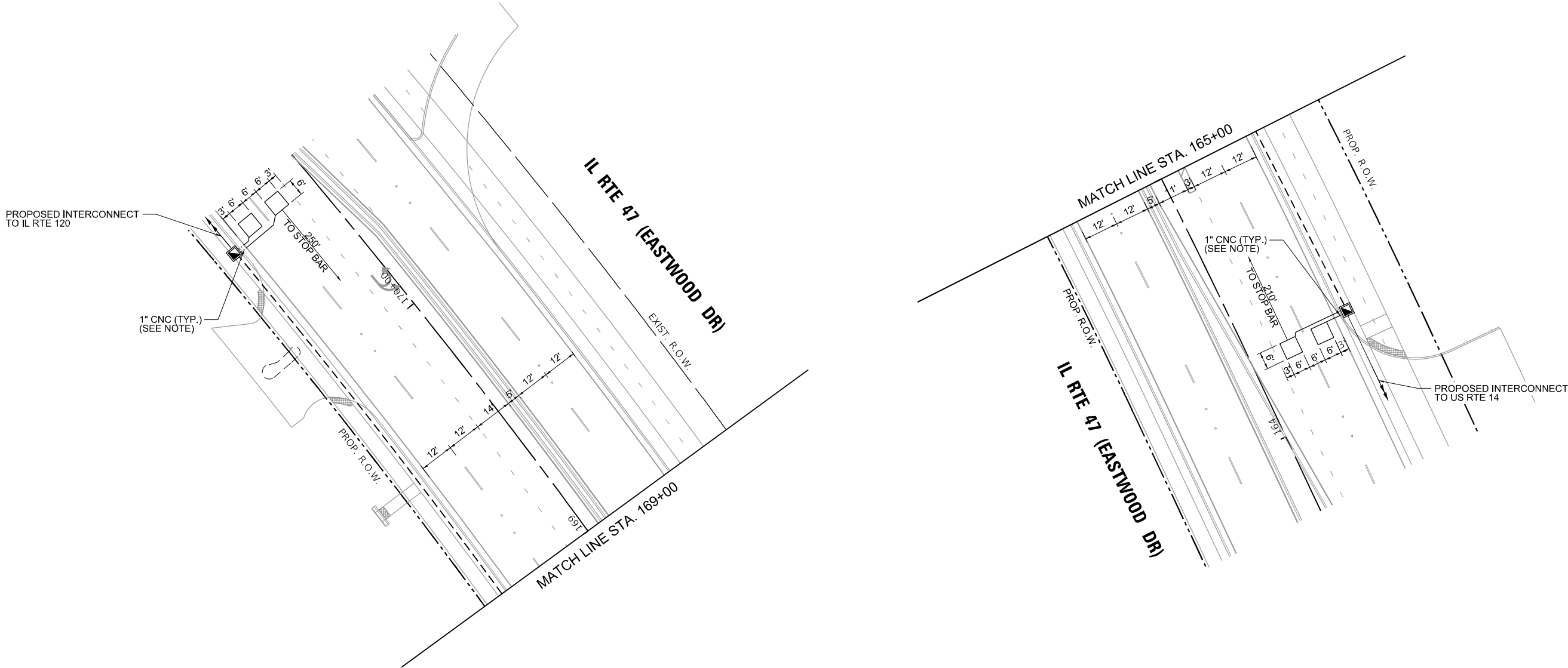
|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| DRAWN - NS                   | REVISED -         |           |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| TRAFFIC SIGNAL MODERNIZATION PLAN<br>IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD<br>(SHEET 2 OF 2) |       |      |        |
|--------------------------------------------------------------------------------------------------------------|-------|------|--------|
| SCALE:                                                                                                       | SHEET | OF   | SHEETS |
| STA.                                                                                                         | TO    | STA. |        |

| F.A.P. RTE.        | SECTION              | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|--------------------|----------------------|----------|------------------|-----------|
| 326                | 2024-1052-N,C,SW,FL. | MCHENRY  | 941              | 784       |
| CONTRACT NO. 62X94 |                      |          |                  |           |
|                    |                      | ILLINOIS | FED. AID PROJECT |           |

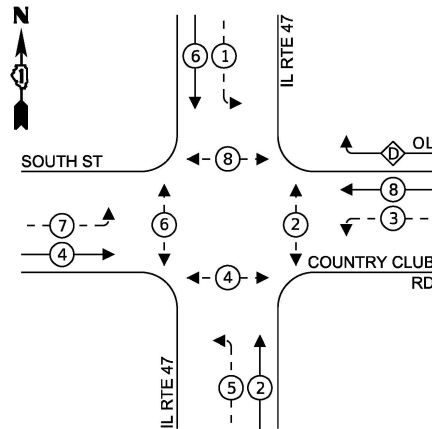
TS 15085  
ECON 167



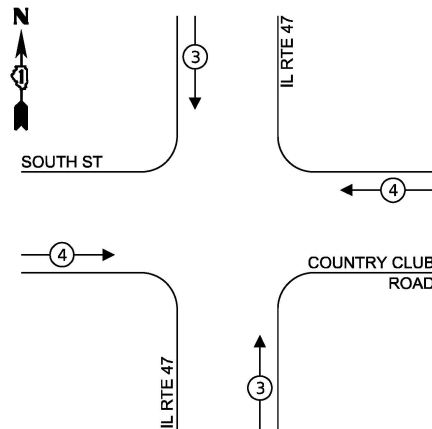
NOTES

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

### PROPOSED CONTROLLER SEQUENCE

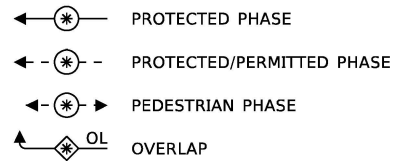


## PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



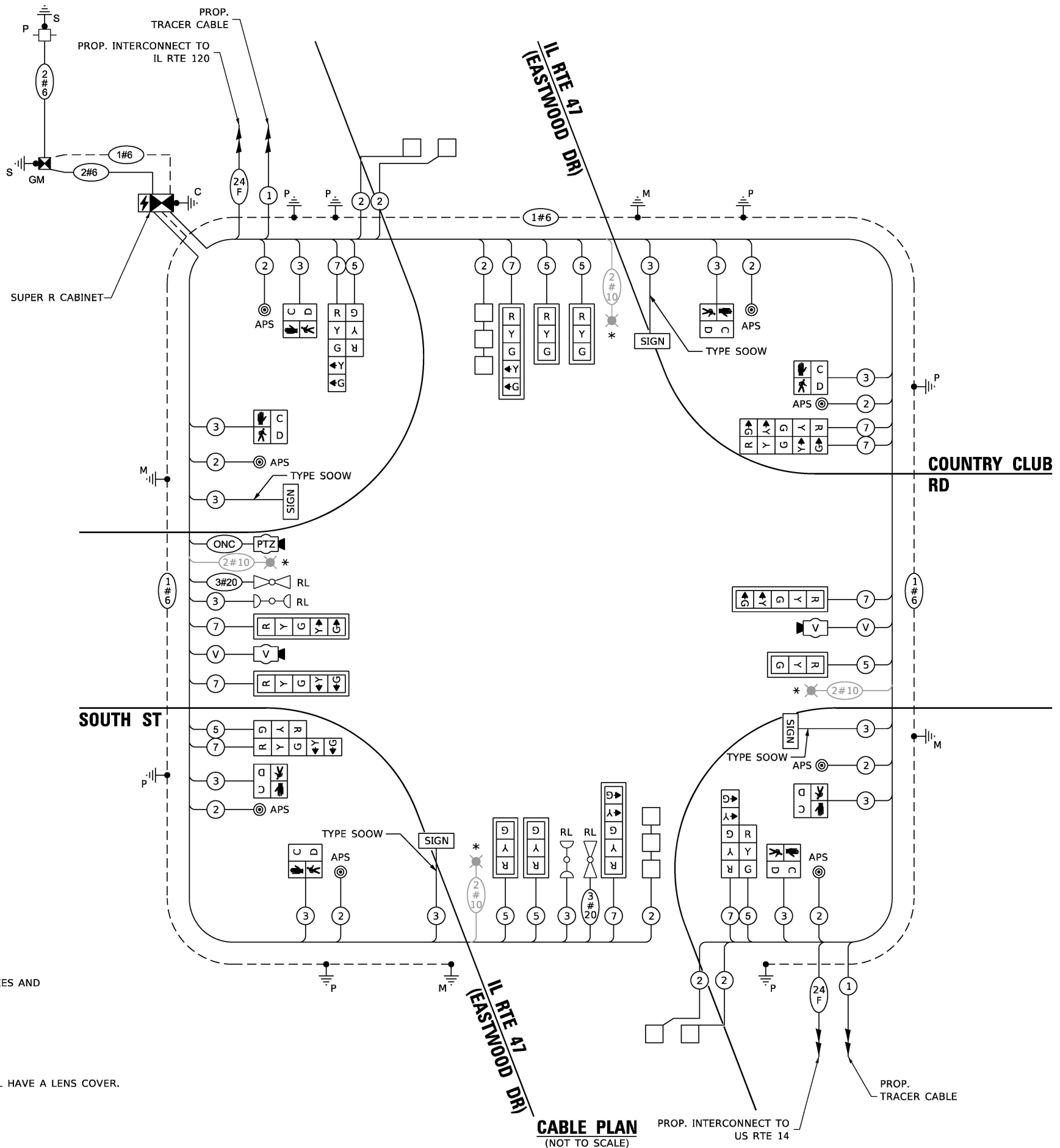
| TRAFFIC SIGNAL<br>ELECTRIC SERVICE REQUIREMENTS                                                                                                                                                                |          |      |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------|
| TYPE                                                                                                                                                                                                           | QUANTITY | UNIT | TOTAL |
| SIGNAL HEAD 3 - SECTION                                                                                                                                                                                        | 8        | 11   | 88    |
| 4 - SECTION                                                                                                                                                                                                    |          | 14   |       |
| 5 - SECTION                                                                                                                                                                                                    | 10       | 13   | 130   |
| PROGRAMMABLE SIGNAL HEAD                                                                                                                                                                                       |          |      |       |
| 3 - SECTION                                                                                                                                                                                                    |          | 22   |       |
| 4 - SECTION                                                                                                                                                                                                    |          | 32   |       |
| 5 - SECTION                                                                                                                                                                                                    |          | 28   |       |
| PED. SIGNAL                                                                                                                                                                                                    | 8        | 15   | 120   |
| CONTROLLER                                                                                                                                                                                                     | 1        | 150  | 150   |
| MASTER CONTROLLER                                                                                                                                                                                              |          | 100  |       |
| UPS                                                                                                                                                                                                            | 1        | 25   | 25    |
| DETECTION RADAR                                                                                                                                                                                                |          | 20   |       |
| VIDEO                                                                                                                                                                                                          | 1        | 20   | 20    |
| BLANK-OUT SIGN                                                                                                                                                                                                 |          | 25   |       |
| NETWORK SWITCH II OR III                                                                                                                                                                                       | 1        | 35   |       |
| CELLULAR MODEM                                                                                                                                                                                                 |          | 15   |       |
| TOTAL UPS SIZING                                                                                                                                                                                               |          |      | 533   |
| UPS CHARGING                                                                                                                                                                                                   | 1        | 225  | 225   |
| BATTERY HEATER MAT                                                                                                                                                                                             |          | 180  | 180   |
| CABINET HEATER                                                                                                                                                                                                 | 1        | 200  | 200   |
| FLASHER                                                                                                                                                                                                        | 1        | 15   | 15    |
| LED STREET NAME SIGN                                                                                                                                                                                           | 4        | 120  | 480   |
| LUMINAIRE                                                                                                                                                                                                      | 4        | 240  | 960   |
| TOTAL SERVICE WIRE SIZING                                                                                                                                                                                      |          |      | 2593  |
| ENERGY COST TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098<br>ENERGY SUPPLY:<br>CONTACT: COMED<br>PHONE: (630)424-5704<br>COMPANY: COMMONWEALTH EDISON<br>ACCOUNT NUMBER: 72900-1800 |          |      |       |

**LEGEND:**



**RIGHT TURN OVERLAP**  
**PHASE DESIGNATION:**

| OVERLAP<br>LETTER | PERMISSIVE<br>PHASE | PROTECTED<br>PHASE |
|-------------------|---------------------|--------------------|
| D                 | 8                   | 1                  |



\* SEE LIGHTING PLANS FOR QUANTITIES AND FURTHER DETAIL.

**NOTE:**

1. ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER.

TS SHT NO. 50

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN**  
(NOT TO SCALE)

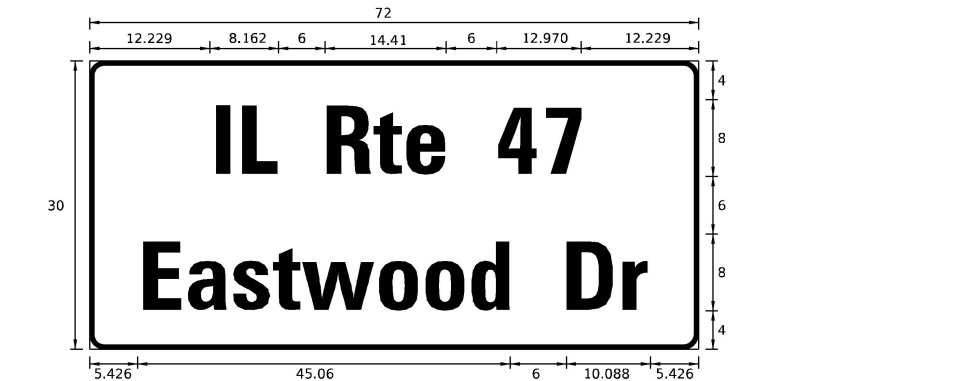
**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 47 (EASTWOOD DR) AND SOUTH ST /COUNTRY CLUB RD**

|                |                      |          |                    |                 |              |
|----------------|----------------------|----------|--------------------|-----------------|--------------|
| F.A.P.<br>RTE. | SECTION              |          | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |
| 326            | 2024-1052-N,C,SW,FL. |          | MCHENRY            | 941             | 785          |
|                |                      |          | CONTRACT NO. 62X94 |                 |              |
|                |                      | ILLINOIS | FED. AID PROJECT   |                 |              |

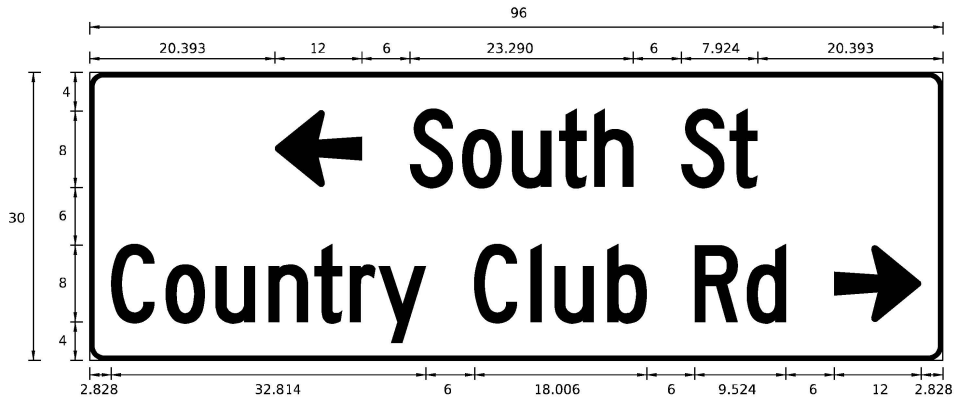
**TS 15085**  
**ECON 167**

LED INTERNALLY ILLUMINATED STREET NAME SIGN

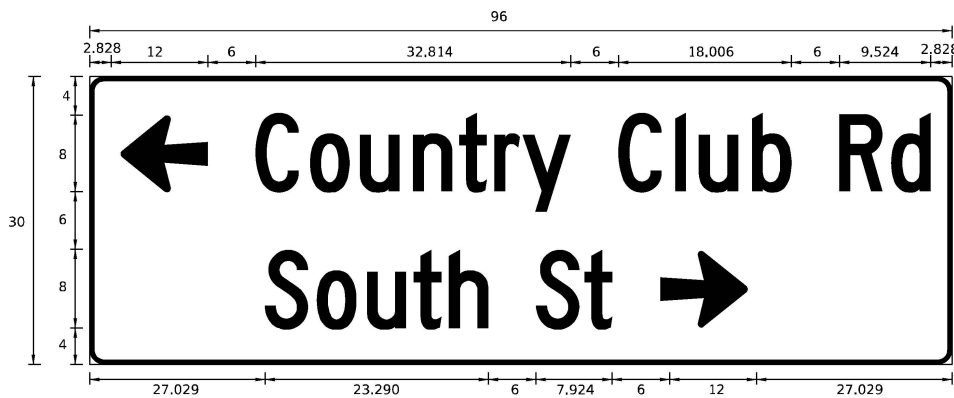
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY REQUIRED |
|---------------|--------------|-----------------|---------------|--------------|
| D             | 15           | 2               | ZZ            | 2            |



| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY REQUIRED |
|---------------|--------------|-----------------|---------------|--------------|
| C             | 20           | 2               | ZZ            | 1            |



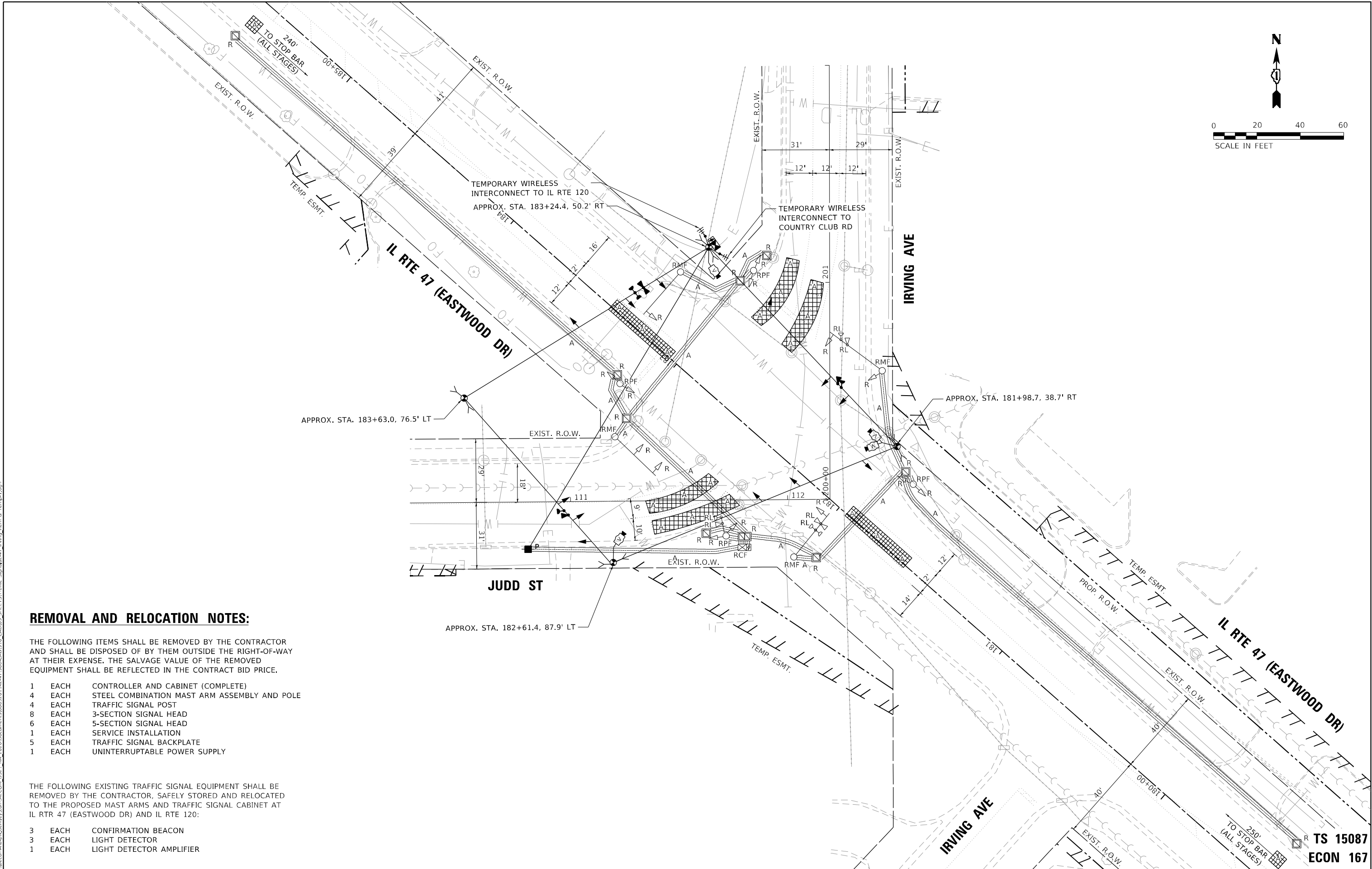
| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY REQUIRED |
|---------------|--------------|-----------------|---------------|--------------|
| C             | 20           | 2               | ZZ            | 1            |

FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION  
PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET  
NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION                                                          | UNIT | TOTAL QTY |
|---------------------------------------------------------------------------|------|-----------|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.                            | FOOT | 680       |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.                            | FOOT | 56        |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.                            | FOOT | 675       |
| HANDHOLE                                                                  | EACH | 4         |
| HEAVY-DUTY HANDHOLE                                                       | EACH | 2         |
| DOUBLE HANDHOLE                                                           | EACH | 2         |
| PAINT NEW TRAFFIC SIGNAL POST                                             | EACH | 4         |
| PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT                    | EACH | 1         |
| PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER                 | EACH | 3         |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C                               | FOOT | 1489      |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C                               | FOOT | 1905      |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                               | FOOT | 1890      |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C                               | FOOT | 1742      |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR                         | FOOT | 1689      |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C                             | FOOT | 143       |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C        | FOOT | 1384      |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH | 4         |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.                       | EACH | 1         |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.                       | EACH | 1         |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 66 FT.                       | EACH | 1         |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 70 FT.                       | EACH | 1         |
| CONCRETE FOUNDATION, TYPE A                                               | FOOT | 20        |
| CONCRETE FOUNDATION, TYPE C                                               | FOOT | 4         |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER                              | FOOT | 14        |
| CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER                              | FOOT | 50        |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 5         |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                      | EACH | 3         |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                      | EACH | 5         |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 5         |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 8         |
| TRAFFIC SIGNAL BACKPLATE                                                  | EACH | 10        |
| INDUCTIVE LOOP DETECTOR                                                   | EACH | 6         |
| DETECTOR LOOP, TYPE I                                                     | FOOT | 207       |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION                                     | EACH | 1         |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  | EACH | 1         |
| REMOVE EXISTING HANDHOLE                                                  | EACH | 9         |
| REMOVE EXISTING DOUBLE HANDHOLE                                           | EACH | 1         |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C           | FOOT | 357       |
| LED INTERNALLY ILLUMINATED STREET NAME SIGN                               | EACH | 4         |
| OUTDOOR RATED NETWORK CABLE                                               | FOOT | 92        |
| FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)               | EACH | 1         |
| SERVICE INSTALLATION, GROUND MOUNTED, METERED                             | EACH | 1         |
| REMOTE CONTROLLED VIDEO SYSTEM                                            | EACH | 1         |
| TERMINATE FIBER IN CABINET                                                | EACH | 12        |
| SPLICE FIBER IN CABINET                                                   | EACH | 6         |
| PEDESTRIAN SIGNAL POST, 10 FT.                                            | EACH | 3         |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH                           | EACH | 2         |
| LAYER II (DATALINK) SWITCH                                                | EACH | 1         |
| ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW         | FOOT | 900       |
| PAINT NEW PEDESTRIAN PUSH-BUTTON POST                                     | EACH | 3         |
| UNINTERRUPTABLE POWER SUPPLY (SPECIAL)                                    | EACH | 1         |
| ACCESSIBLE PEDESTRIAN SIGNALS                                             | EACH | 8         |
| CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER                              | FOOT | 12        |
| LED SIGNAL FACE, LENS COVER                                               | EACH | 18        |
| TEMPORARY TRAFFIC SIGNAL TIMING                                           | EACH | 1         |

MODEL: Default  
FILE NAME: p:\bacon\cs-w\w\_bentley.com\AECOM\_DS21\_NA\_2020\Documents\60632011\IL-171900-CAD\03\_00\_CAD\03\_SHEETS\Traffic\_Signal\IL-17\_Irving\_Rem & Temp-1.dgn



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- |   |      |                                              |
|---|------|----------------------------------------------|
| 1 | EACH | CONTROLLER AND CABINET (COMPLETE)            |
| 4 | EACH | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE |
| 4 | EACH | TRAFFIC SIGNAL POST                          |
| 8 | EACH | 3-SECTION SIGNAL HEAD                        |
| 6 | EACH | 5-SECTION SIGNAL HEAD                        |
| 1 | EACH | SERVICE INSTALLATION                         |
| 5 | EACH | TRAFFIC SIGNAL BACKPLATE                     |
| 1 | EACH | UNINTERRUPTABLE POWER SUPPLY                 |

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CABINET AT IL RTE 47 (EASTWOOD DR) AND IL RTE 120:

- |   |      |                          |
|---|------|--------------------------|
| 3 | EACH | CONFIRMATION BEACON      |
| 3 | EACH | LIGHT DETECTOR           |
| 1 | EACH | LIGHT DETECTOR AMPLIFIER |



|            |                   |            |            |           |  |
|------------|-------------------|------------|------------|-----------|--|
| USER NAME  | = nsalehian       | DESIGNED - | NS         | REVISED - |  |
| DRAWN -    | NS                | REVISIED - |            |           |  |
| PLOT SCALE | = 40,0000 * / in. | CHECKED -  | TS         | REVISED - |  |
| PLOT DATE  | = 2/6/2025        | DATE -     | 02/06/2025 | REVISED - |  |

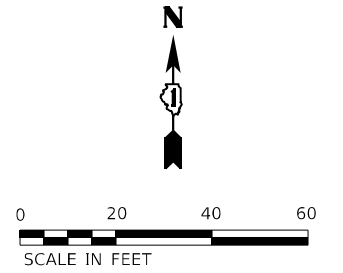
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND  
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
IL RTE 47 (EASTWOOD DR) AND IRVING AVE /JUDD ST

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 787       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15087  
ECON 167



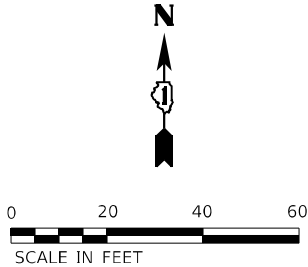
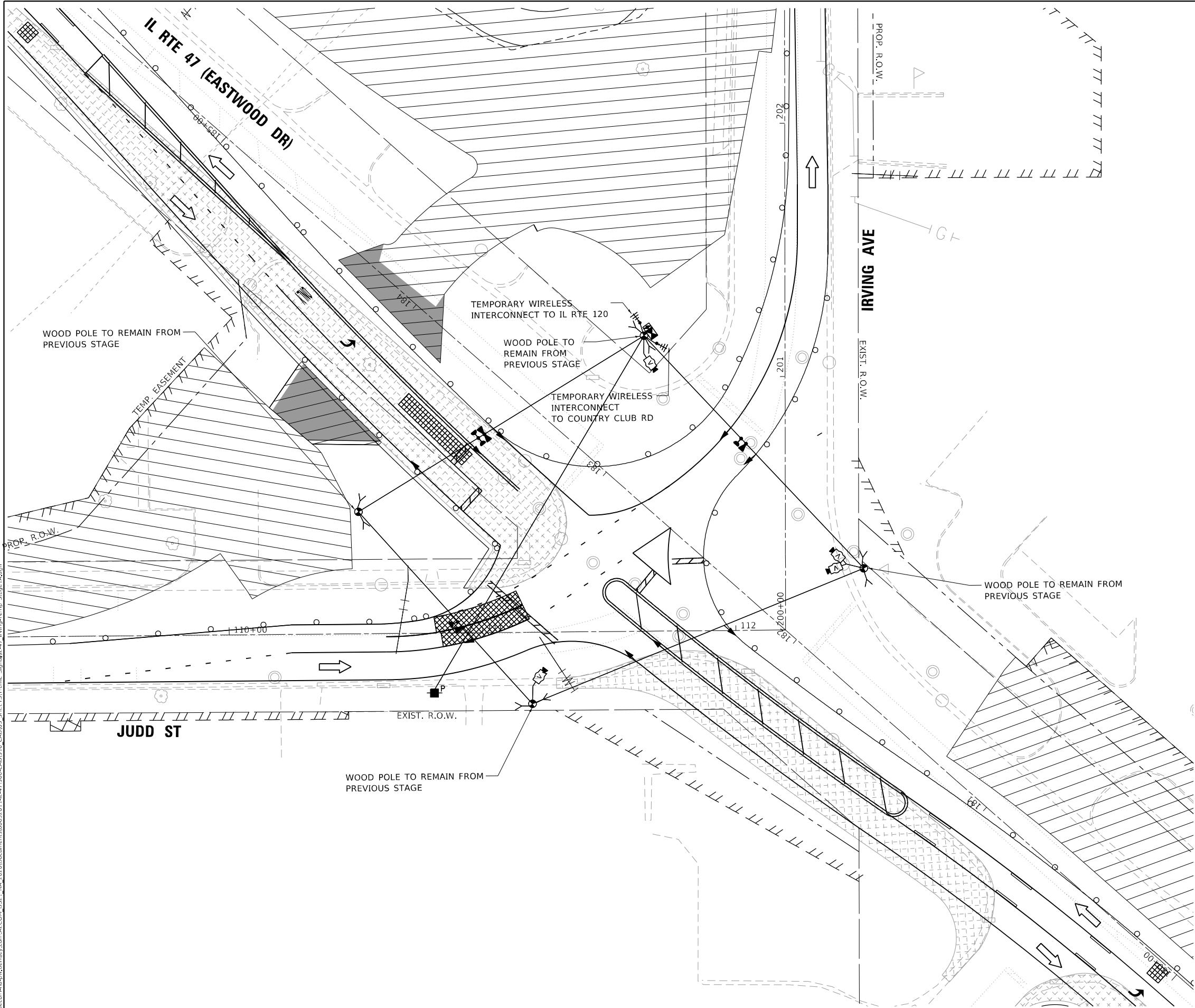
**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - N5     | REVISED - |
|                              | DRAWN - N5        | REVISED - |
| PLOT SCALE = 40,0000 * / ir. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – PRESTAGE B  
IL RTE 47 (EASTWOOD DR) AND IRVING AVE /JUDD ST**

|               |       |    |        |      |         |
|---------------|-------|----|--------|------|---------|
| SCALE: 1"=20' | SHEET | OF | SHEETS | STA. | TO STA. |
|---------------|-------|----|--------|------|---------|

|                |                      |                    |                 |              |
|----------------|----------------------|--------------------|-----------------|--------------|
| F.A.P.<br>RTE. | SECTION              | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |
| 326            | 2024-1052-N,C,SW,FL. | MCHENRY            | 941             | 788          |
|                |                      | CONTRACT NO. 62X94 |                 |              |
| ILLINOIS       |                      | FED. AID PROJECT   |                 |              |



**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|            |                   |
|------------|-------------------|
| USER NAME  | = nsalehian       |
| DESIGNED   | - NS              |
| DRAWN      | - NS              |
| PLOT SCALE | = 40,0000 * / in. |
| PLOT DATE  | = 2/6/2025        |
| CHECKED    | - TS              |
| DATE       | - 02/06/2025      |

|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 1A  
IL RTE 47 (EASTWOOD DR) AND IRVING AVE /JUDD ST

SCALE: 1"=20'      SHEET      OF      SHEETS      STA.      TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 789       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15087  
ECON 167



MODEL: Default  
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**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

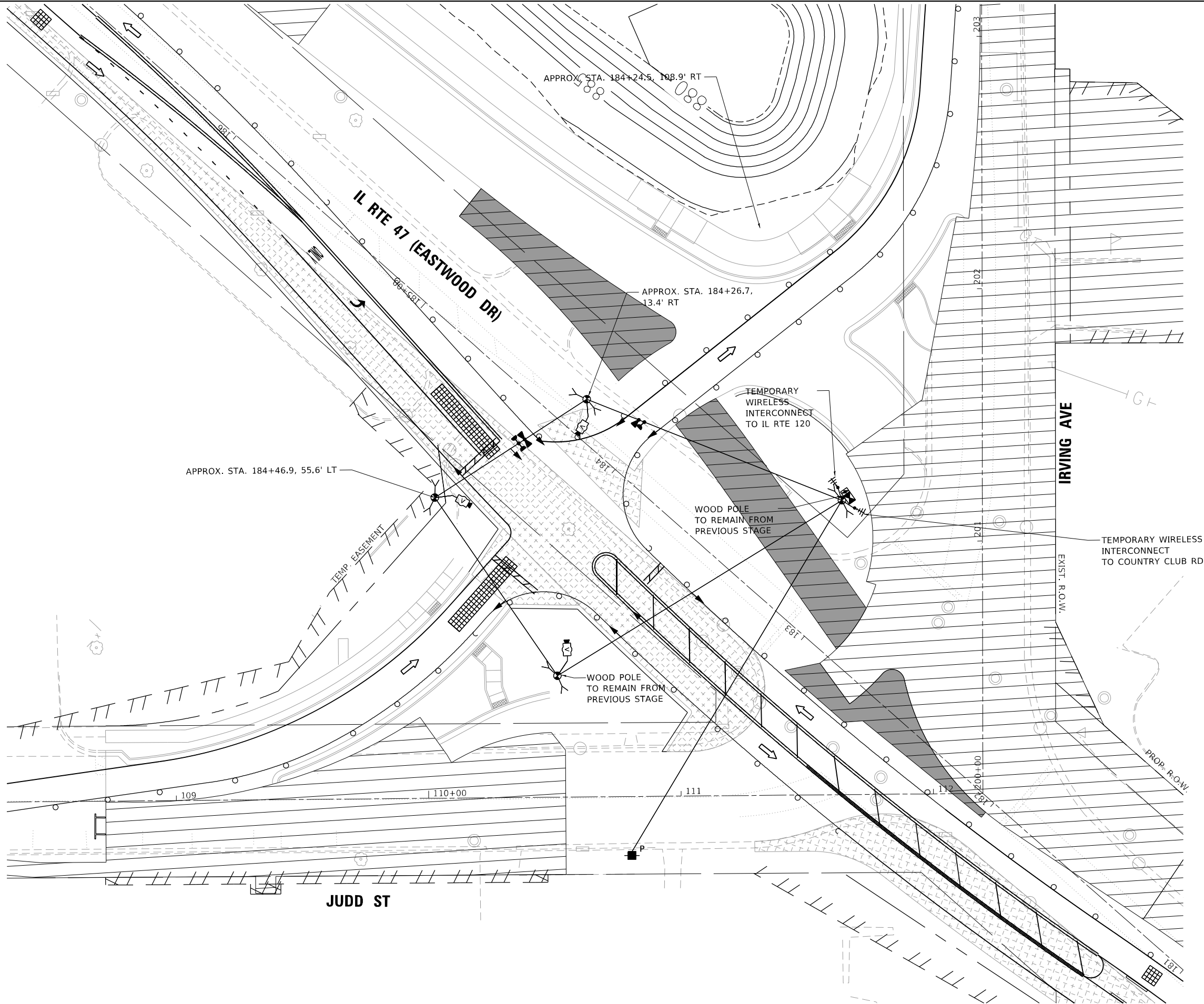
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|------------|-------------------|------------|------------|-----------|--|
| USER NAME  | = nsalehian       | DESIGNED - | NS         | REVISED - |  |
|            |                   | DRAWN -    | NS         | REVISED - |  |
| PLOT SCALE | = 40,0000 * / in. | CHECKED -  | TS         | REVISED - |  |
| PLOT DATE  | = 2/6/2025        | DATE -     | 02/06/2025 | REVISED - |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 1B  
IL RTE 47 (EASTWOOD DR) AND IRVING AVE /JUDD ST

SCALE: 1"=20'    SHEET    OF    SHEETS    STA.    TO STA.

| F.A.P. RTE.                  | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|------------------------------|----------------------|---------|--------------|-----------|
| 326                          | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 790       |
| CONTRACT NO. 62X94           |                      |         |              |           |
| ILLINOIS    FED. AID PROJECT |                      |         |              |           |





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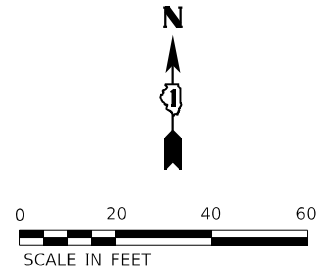
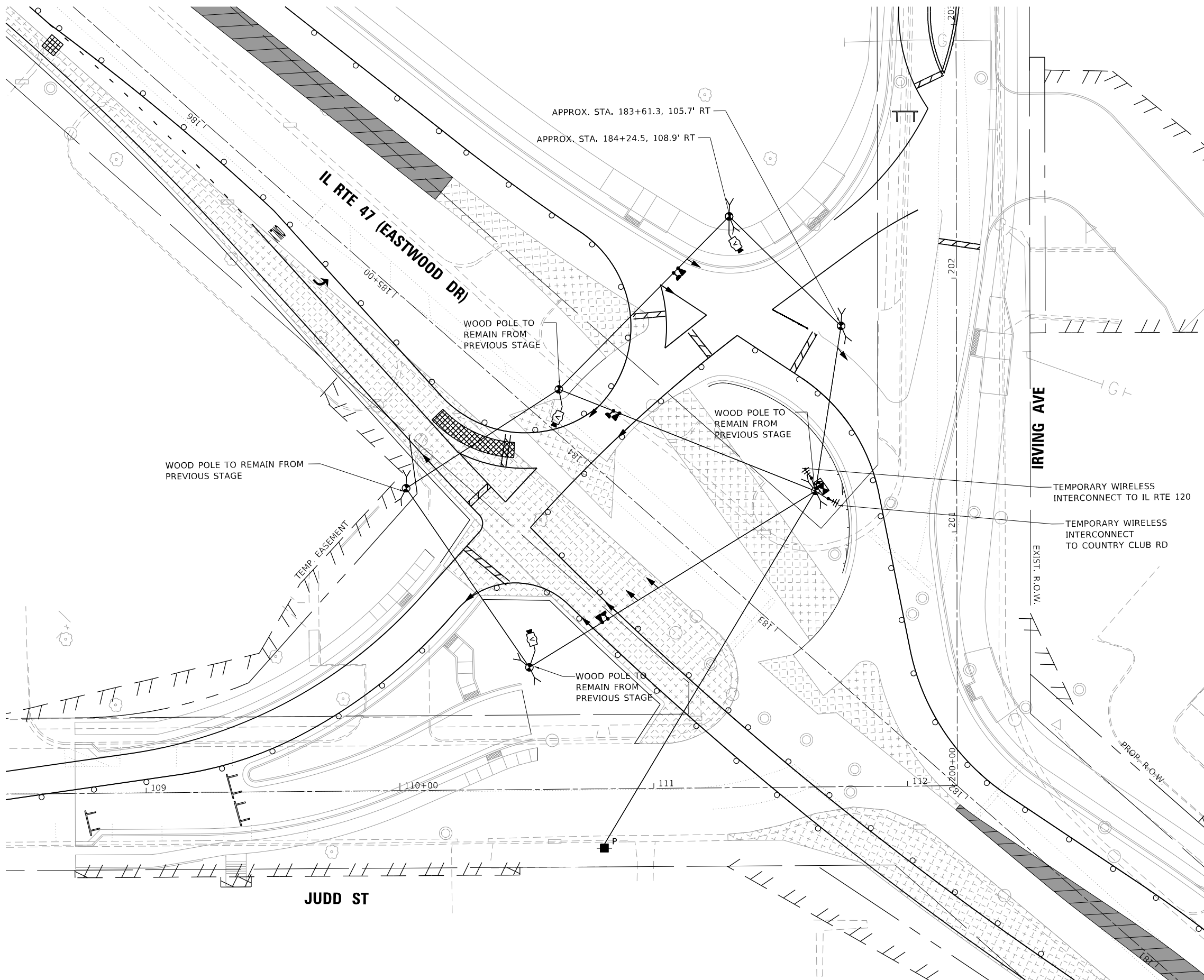
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|------------|-------------------|------------|------------|-----------|--|
| USER NAME  | = nsalehian       | DESIGNED - | NS         | REVISED - |  |
|            |                   | DRAWN -    | NS         | REVISED - |  |
| PLOT SCALE | = 40,0000 * / in. | CHECKED -  | TS         | REVISED - |  |
| PLOT DATE  | = 2/6/2025        | DATE -     | 02/06/2025 | REVISED - |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 1C  
IL RTE 47 (EASTWOOD DR) AND IRVING AVE /JUDD ST

SCALE: 1"=20'      SHEET      OF      SHEETS      STA.      TO STA.

| F.A.P. RTE.        | SECTION              | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|--------------------|----------------------|----------|------------------|-----------|
| 326                | 2024-1052-N,C,SW,FL. | MCHENRY  | 941              | 791       |
| CONTRACT NO. 62X94 |                      |          |                  |           |
|                    |                      | ILLINOIS | FED. AID PROJECT |           |



TS SHT NO. 57

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**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|            |                   |
|------------|-------------------|
| USER NAME  | = nsalehian       |
| DESIGNED   | - NS              |
| DRAWN      | - NS              |
| PLOT SCALE | = 40,0000 * / in. |
| CHECKED    | - TS              |
| DATE       | - 02/06/2025      |
| PLOT DATE  | = 2/6/2025        |

|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

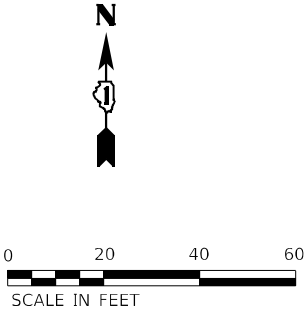
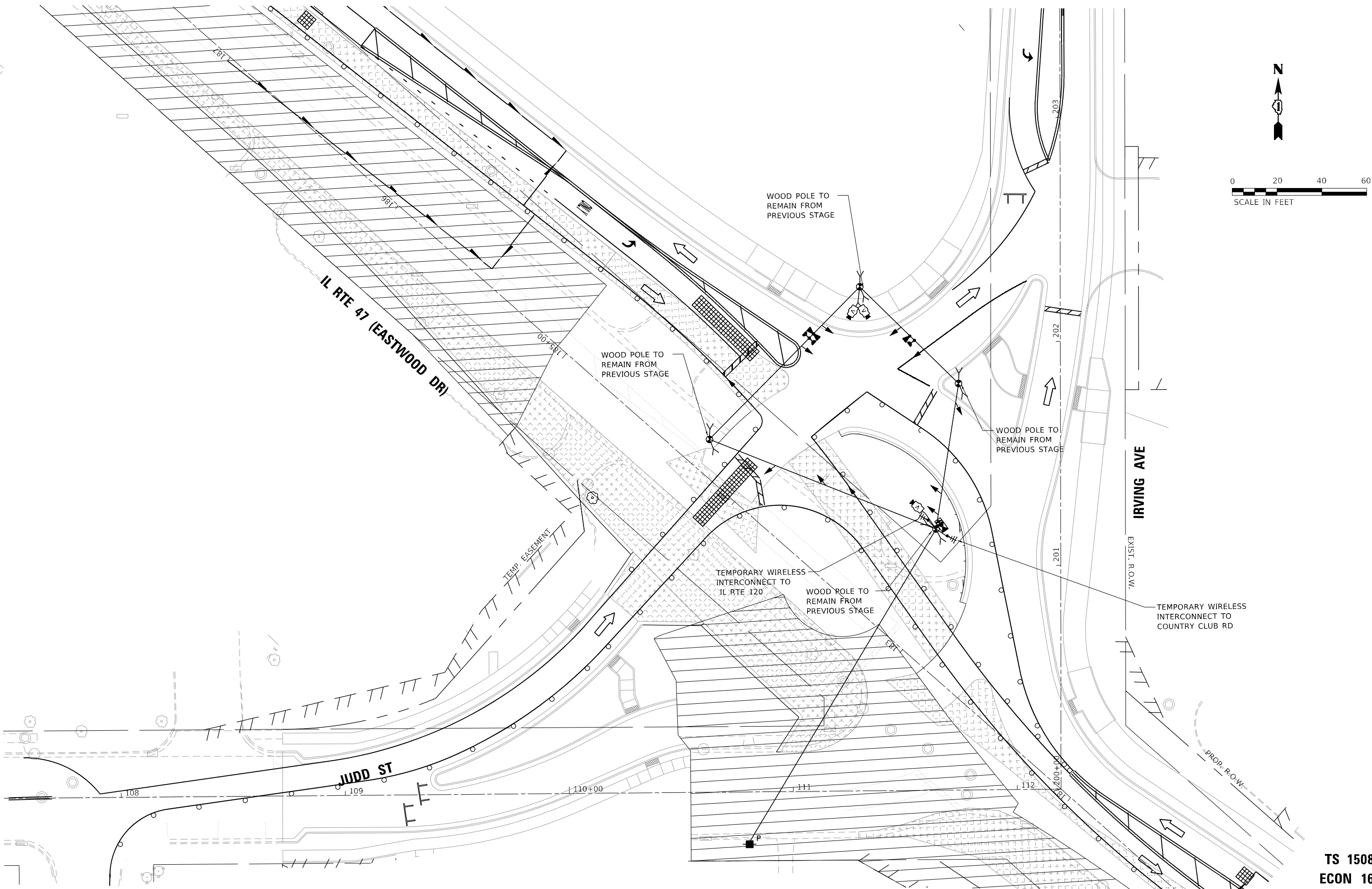
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 2A  
IL RTE 47 (EASTWOOD DR) AND IRVING AVE /JUDD ST

SCALE: 1"=20'    SHEET    OF    SHEETS    STA.    TO STA.

| F.A.P. RTE.        | SECTION              | COUNTY           | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------------|------------------|--------------|-----------|
| 326                | 2024-1052-N,C,SW,FL. | MCHENRY          | 941          | 792       |
| CONTRACT NO. 62X94 |                      |                  |              |           |
| ILLINOIS           |                      | FED. AID PROJECT |              |           |

TS 15087  
ECON 167



MODEL: Default  
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**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

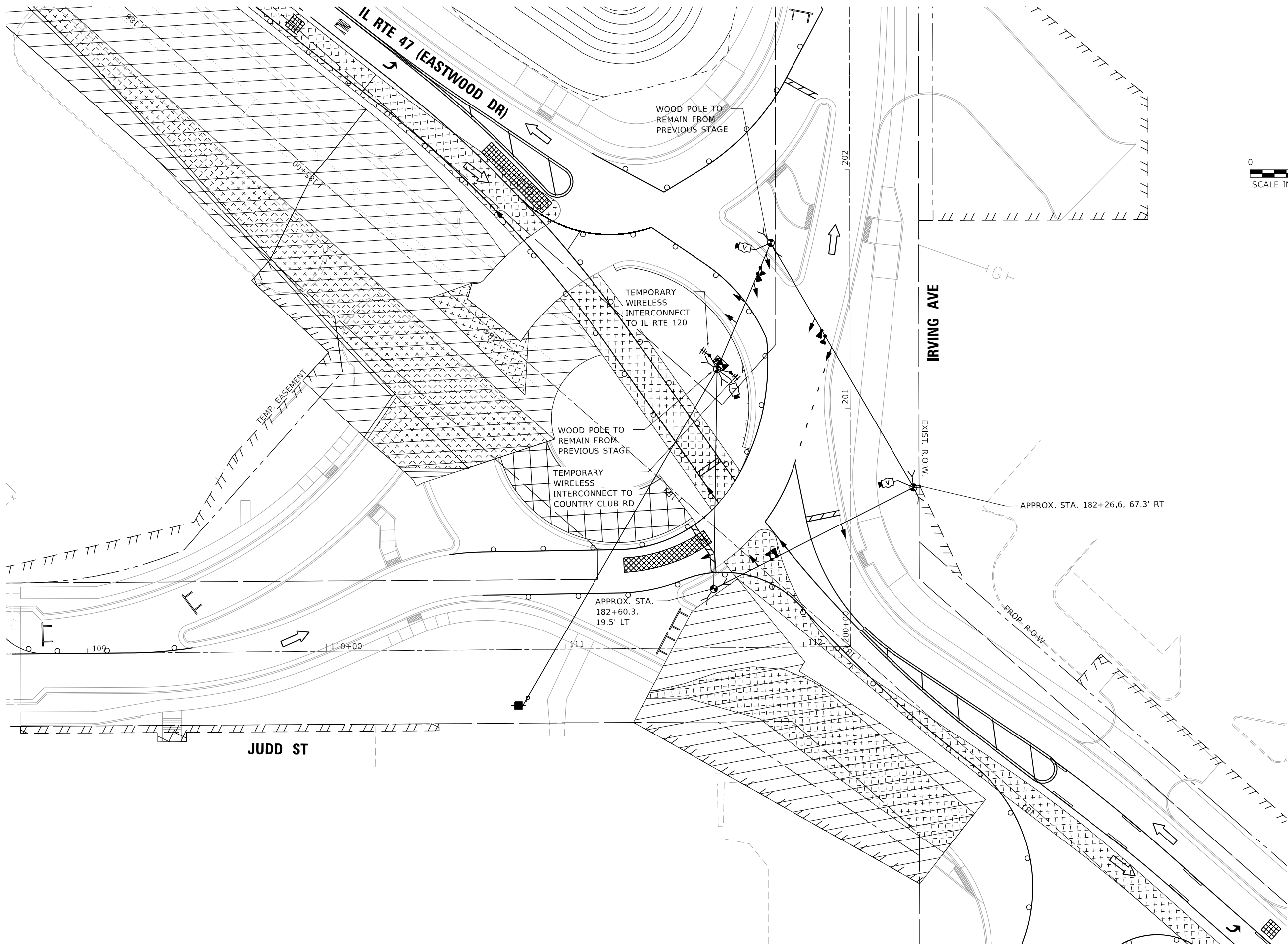
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|------------|-------------------|------------|--------------|-----------|--|
| USER NAME  | = nsalehian       | DESIGNED - | NS           | REVISED - |  |
|            |                   | DRAWN -    | NS           | REVISED - |  |
| PLOT SCALE | = 40,0000 * / in. | CHECKED -  | TS           | REVISED - |  |
| PLOT DATE  | = 2/6/2025        | DATE       | = 02/06/2025 | REVISED - |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 2B  
IL RTE 47 (EASTWOOD DR) AND IRVING AVE /JUDD ST

SCALE: 1"=20"      SHEET      OF      SHEETS      STA.      TO STA.

| F.A.P. RTE.        | SECTION              | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|--------------------|----------------------|----------|------------------|-----------|
| 326                | 2024-1052-N,C,SW,FL. | MCHENRY  | 941              | 793       |
| CONTRACT NO. 62X94 |                      |          |                  |           |
|                    |                      | ILLINOIS | FED. AID PROJECT |           |



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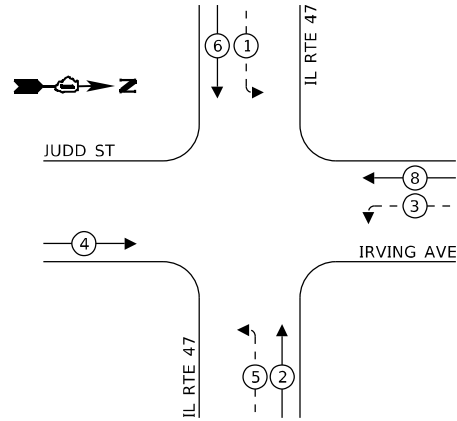
20

40

60

SCALE IN FEET

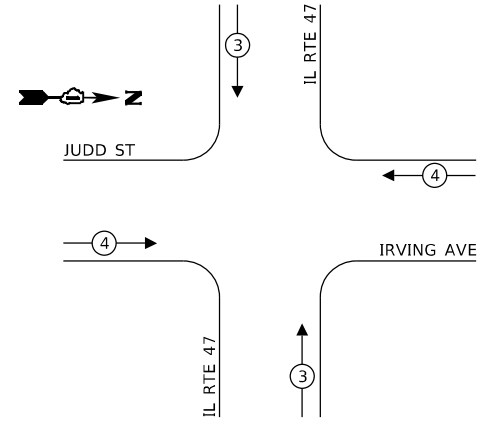
TEMPORARY CONTROLLER SEQUENCE  
(PRE STAGE B)



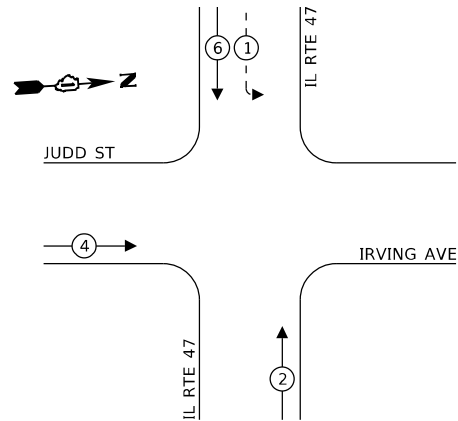
LEGEND:

- ← (\*) → PROTECTED PHASE
- ← (\*) - PROTECTED/PERMITTED PHASE
- ← (\*) → PEDESTRIAN PHASE
- ← (\*) OL OVERLAP

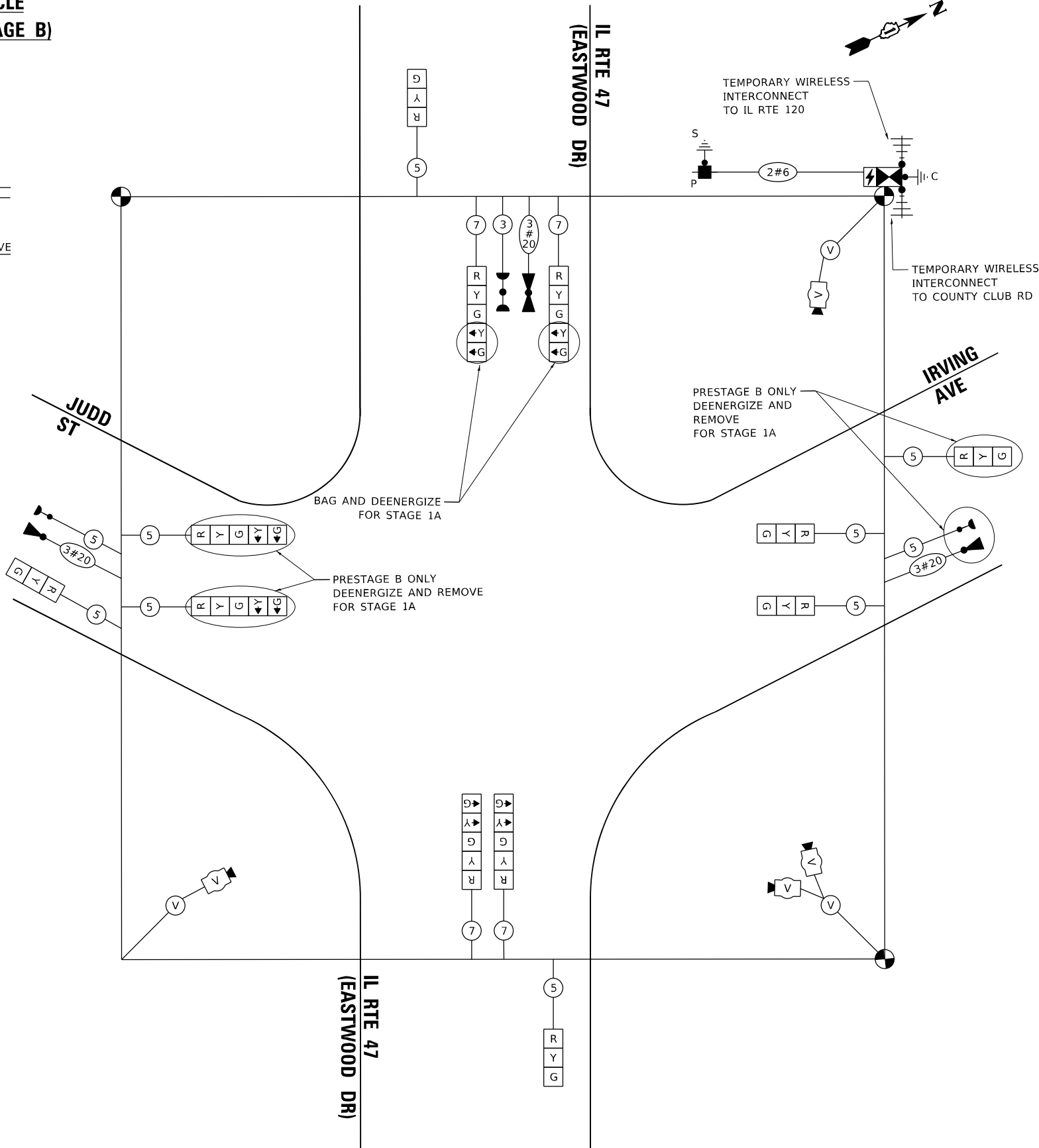
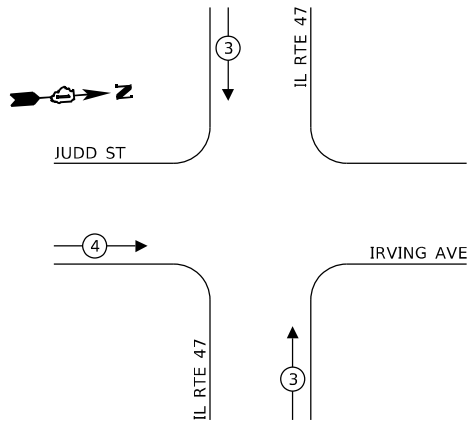
TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE (PRE STAGE B)



TEMPORARY CONTROLLER SEQUENCE  
(STAGE 1A)



TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE (STAGE 1A)



CABLE PLAN  
(PRE STAGE B & STAGE 1A)  
(NOT TO SCALE)

TS 15087  
ECON 167

| TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS                                        |                         |          |              |               |
|---------------------------------------------------------------------------------------|-------------------------|----------|--------------|---------------|
| TYPE                                                                                  |                         | QUANTITY | UNIT WATTAGE | TOTAL WATTAGE |
| SIGNAL HEAD                                                                           | 3 - SECTION             | 6        | 11           | 66.0          |
|                                                                                       | 4 - SECTION             | -        | 14           | -             |
|                                                                                       | 5 - SECTION             | 6        | 13           | 78.0          |
|                                                                                       | PROGRAMMABLE SIGNALS    | -        | -            | -             |
|                                                                                       | 3 - SECTION             | -        | 22           | -             |
| PED. SIGNAL                                                                           | 4 - SECTION             | -        | 32           | -             |
|                                                                                       | 5 - SECTION             | -        | 28           | -             |
|                                                                                       | CONTROLLER              | 1        | 150          | 150.0         |
|                                                                                       | MASTER CONTROLLER       | -        | 100          | -             |
|                                                                                       | UPS                     | 1        | 25           | 25.0          |
| DETECTION                                                                             | RADAR                   | -        | 20           | -             |
|                                                                                       | VIDEO                   | 1        | 20           | 20.0          |
| BLANK-OUT SIGN                                                                        | NETWORK SWITH II OR III | -        | 35           | -             |
|                                                                                       | CELLULAR MODEM          | -        | 15           | -             |
| TOTAL UPS SIZING =                                                                    |                         |          |              | 339.0         |
| UPS CHARGING                                                                          |                         | -        | 225          | -             |
|                                                                                       | BATTERY HEATER MAT      | -        | 180          | -             |
| CABINET HEATER                                                                        |                         | -        | 200          | -             |
|                                                                                       | FLASHER                 | -        | 15           | -             |
| LED STREET NAME SIGN                                                                  |                         | -        | 120          | -             |
|                                                                                       | LUMINAIRE               | -        | 240          | -             |
|                                                                                       |                         |          |              | 339.0         |
| ENERGY COSTS TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098 |                         |          |              |               |
| ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS                                            |                         |          |              |               |
| PHONE: 630-424-5704                                                                   |                         |          |              |               |
| COMPANY: COMMONWEALTH EDISON                                                          |                         |          |              |               |
| ACCOUNT NUMBER: ---                                                                   |                         |          |              |               |



|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| DRAWN - NS                   | REVISED -         |           |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

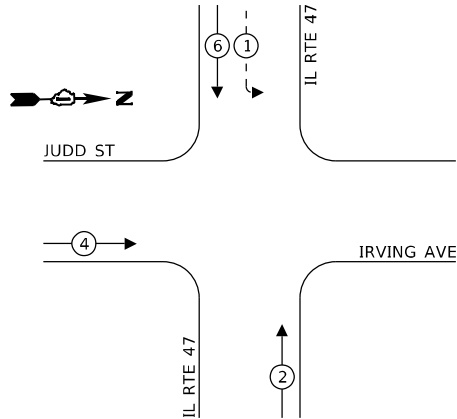
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (SHEET 1 OF 5)  
IL RTE 47 (EASTWOOD DR) AND JUDD ST / IRVING AVE

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 794       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

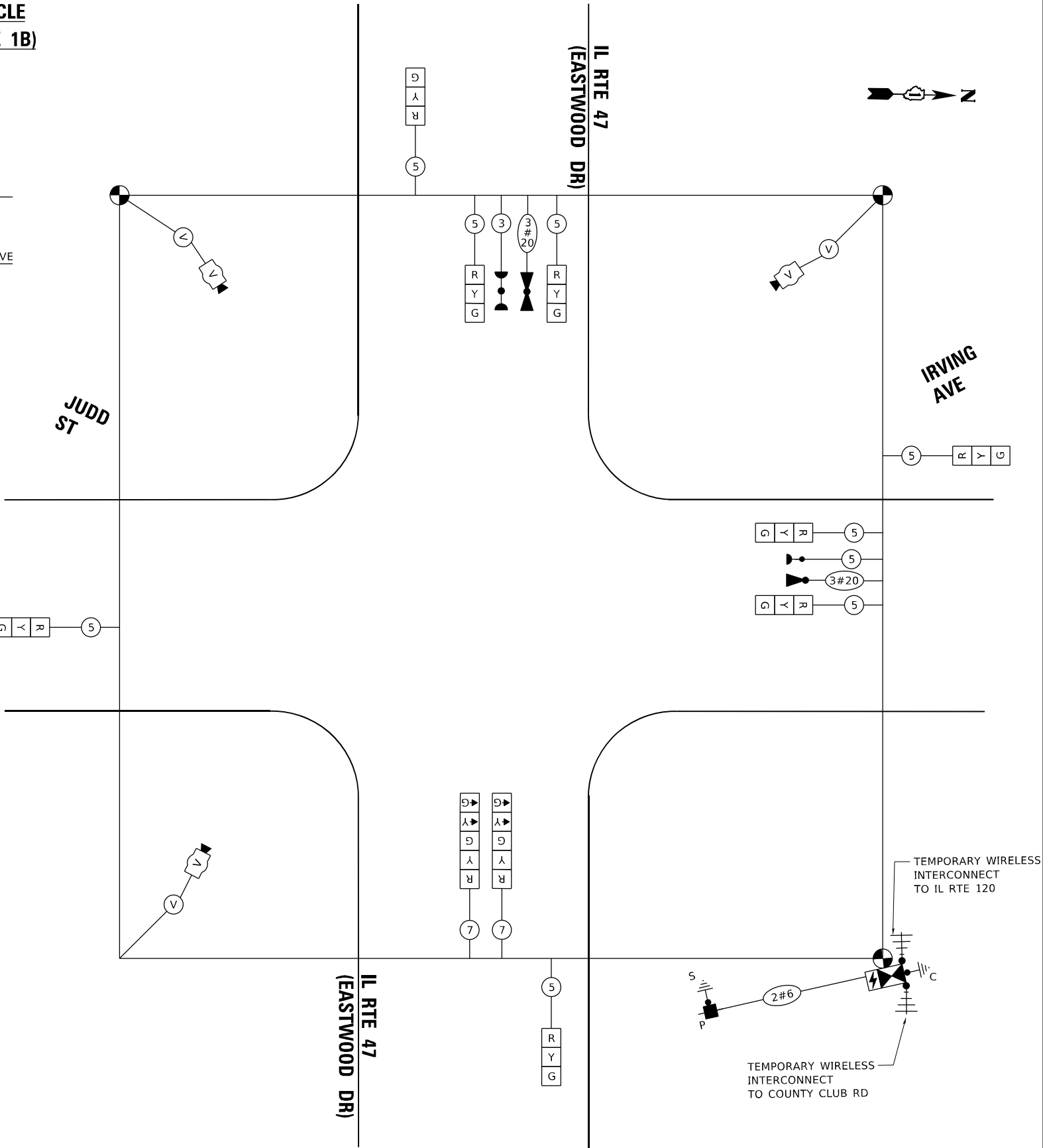
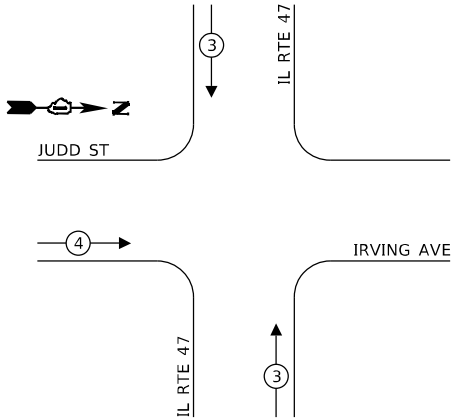
TEMPORARY CONTROLLER SEQUENCE  
(STAGE 1B)



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE (STAGE 1B)



CABLE PLAN  
(STAGE 1B)

(NOT TO SCALE)

| TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS                                        |             |          |              |               |
|---------------------------------------------------------------------------------------|-------------|----------|--------------|---------------|
| TYPE                                                                                  |             | QUANTITY | UNIT WATTAGE | TOTAL WATTAGE |
| SIGNAL HEAD                                                                           | 3 - SECTION | 7        | 11           | 77.0          |
|                                                                                       | 4 - SECTION | -        | 14           | -             |
|                                                                                       | 5 - SECTION | 2        | 13           | 26.0          |
| PROGRAMMABLE SIGNALS                                                                  |             |          |              | -             |
|                                                                                       | 3 - SECTION | -        | 22           | -             |
|                                                                                       | 4 - SECTION | -        | 32           | -             |
|                                                                                       | 5 - SECTION | -        | 28           | -             |
| PED. SIGNAL                                                                           |             | -        | 15           | -             |
| CONTROLLER                                                                            |             | 1        | 150          | 150.0         |
| MASTER CONTROLLER                                                                     |             | -        | 100          | -             |
| UPS                                                                                   |             | 1        | 25           | 25.0          |
| DETECTION                                                                             | RADAR       | -        | 20           | -             |
|                                                                                       | VIDEO       | 1        | 20           | 20.0          |
| BLANK-OUT SIGN                                                                        |             | -        | 25           | -             |
| NETWORK SWITH II OR III                                                               |             | -        | 35           | -             |
| CELLULAR MODEM                                                                        |             | -        | 15           | -             |
| TOTAL UPS SIZING =                                                                    |             |          |              | 298.0         |
| UPS CHARGING                                                                          |             | -        | 225          | -             |
| BATTERY HEATER MAT                                                                    |             | -        | 180          | -             |
| CABINET HEATER                                                                        |             | -        | 200          | -             |
| FLASHER                                                                               |             | -        | 15           | -             |
| LED STREET NAME SIGN                                                                  |             | -        | 120          | -             |
| LUMINAIRE                                                                             |             | -        | 240          | -             |
|                                                                                       |             |          |              | 298.0         |
| ENERGY COSTS TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098 |             |          |              |               |
| ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS                                            |             |          |              |               |
| PHONE: 630-424-5704                                                                   |             |          |              |               |
| COMPANY: COMMONWEALTH EDISON                                                          |             |          |              |               |
| ACCOUNT NUMBER: ---                                                                   |             |          |              |               |



|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
|                              | DRAWN - NS        | REVISED - |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (SHEET 2 OF 5)  
IL RTE 47 (EASTWOOD DR) AND JUDD ST / IRVING AVE

SCALE: SHEET OF SHEETS STA. TO STA.

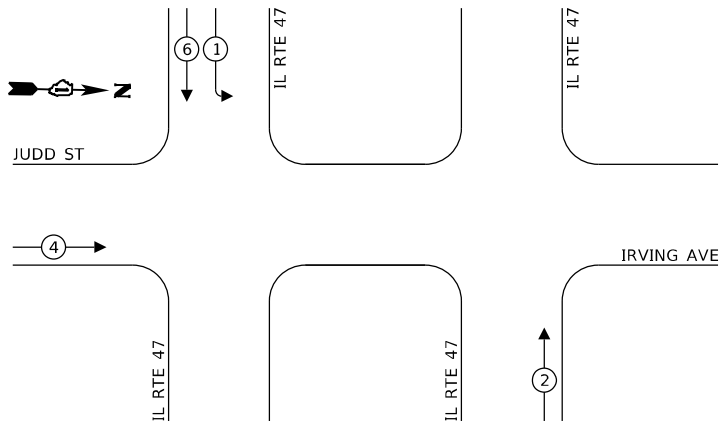
| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 795       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15087  
ECON 167

MODEL: Default  
FILE NAME: p:\bates-con-cs-sw-bentley.com\AECOM\DS21\_IL-171900-CAD\03-10-CAD\03-SHEETS\Traffic-Signal\IL-47 Irving temporary-2.dgn

TEMPORARY CONTROLLER SEQUENCE

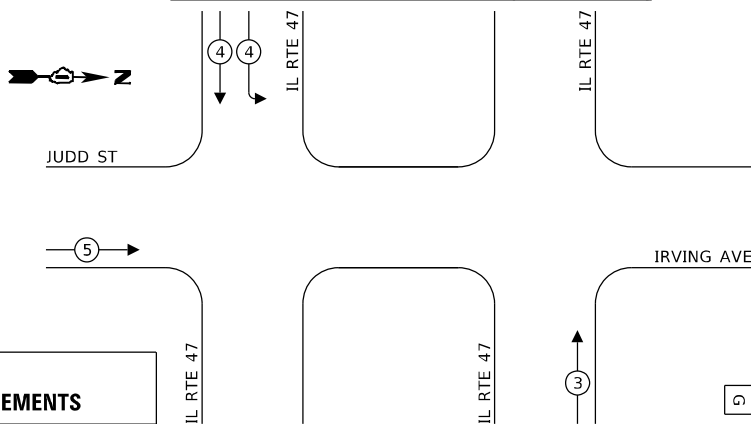
(STAGE 1C)



LEGEND:

- ← (⊛) — PROTECTED PHASE
- ← - (⊛) - PROTECTED/PERMITTED PHASE
- ← (⊛) → PEDESTRIAN PHASE
- ← (⊛) OL OVERLAP

TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE (STAGE 1C)



TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE                    | QUANTITY    | UNIT | WATTAGE | TOTAL |
|-------------------------|-------------|------|---------|-------|
| SIGNAL HEAD             | 3 - SECTION | 11   | 11      | 121.0 |
|                         | 4 - SECTION | -    | 14      | -     |
|                         | 5 - SECTION | -    | 13      | -     |
| PROGRAMMABLE SIGNALS    |             |      |         | -     |
|                         | 3 - SECTION | -    | 22      | -     |
|                         | 4 - SECTION | -    | 32      | -     |
|                         | 5 - SECTION | -    | 28      | -     |
| PED. SIGNAL             |             |      |         | -     |
| CONTROLLER              | 1           | 150  | 150.0   |       |
| MASTER CONTROLLER       | -           | 100  |         |       |
| UPS                     | 1           | 25   | 25.0    |       |
| DETECTION               | RADAR       | -    | 20      | -     |
|                         | VIDEO       | 1    | 20      | 20.0  |
| BLANK-OUT SIGN          | -           | 25   | -       |       |
| NETWORK SWITH II OR III | -           | 35   | -       |       |
| CELLULAR MODEM          | -           | 15   | -       |       |
| TOTAL UPS SIZING =      |             |      | 316.0   |       |
| UPS CHARGING            | -           | 225  | -       |       |
| BATTERY HEATER MAT      | -           | 180  | -       |       |
| CABINET HEATER          | -           | 200  | -       |       |
| FLASHER                 | -           | 15   | -       |       |
| LED STREET NAME SIGN    | -           | 120  | -       |       |
| LUMINAIRE               | -           | 240  | -       |       |
|                         |             |      | 316.0   |       |

ENERGY COSTS TO:  
CITY OF WOODSTOCK  
121 W. CALHOUN STREET  
WOODSTOCK, IL 60098

ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS  
PHONE: 630-424-5704  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---



|           |              |
|-----------|--------------|
| USER NAME | = nsalehian  |
| DESIGNED  | - NS         |
| DRAWN     | - NS         |
| CHECKED   | - TS         |
| DATE      | - 02/06/2025 |
| REVISD    | -            |
| REVISD    | -            |
| REVISD    | -            |
| REVISD    | -            |

|          |              |
|----------|--------------|
| DESIGNED | - NS         |
| DRAWN    | - NS         |
| CHECKED  | - TS         |
| DATE     | - 02/06/2025 |
| REVISD   | -            |
| REVISD   | -            |
| REVISD   | -            |
| REVISD   | -            |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN  
(STAGE 1C)

(NOT TO SCALE)

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (SHEET 3 OF 5)  
IL RTE 47 (EASTWOOD DR) AND JUDD ST /IRVING AVE

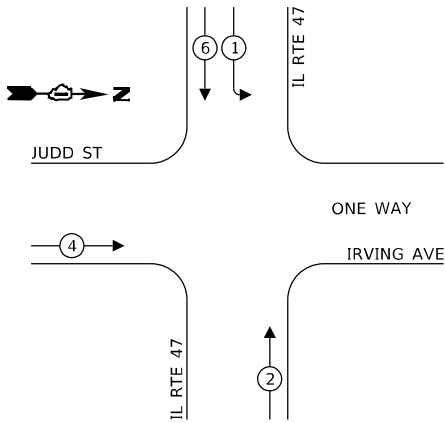
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 796       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15087  
ECON 167



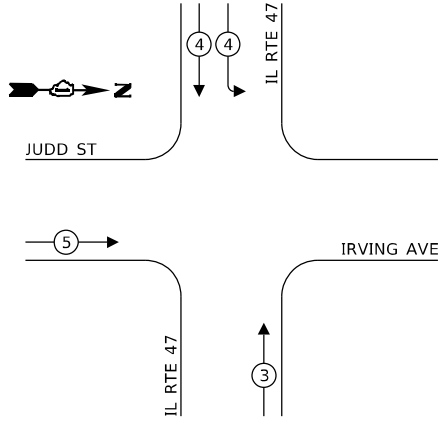
TEMPORARY CONTROLLER SEQUENCE  
(STAGE 2A)



LEGEND:

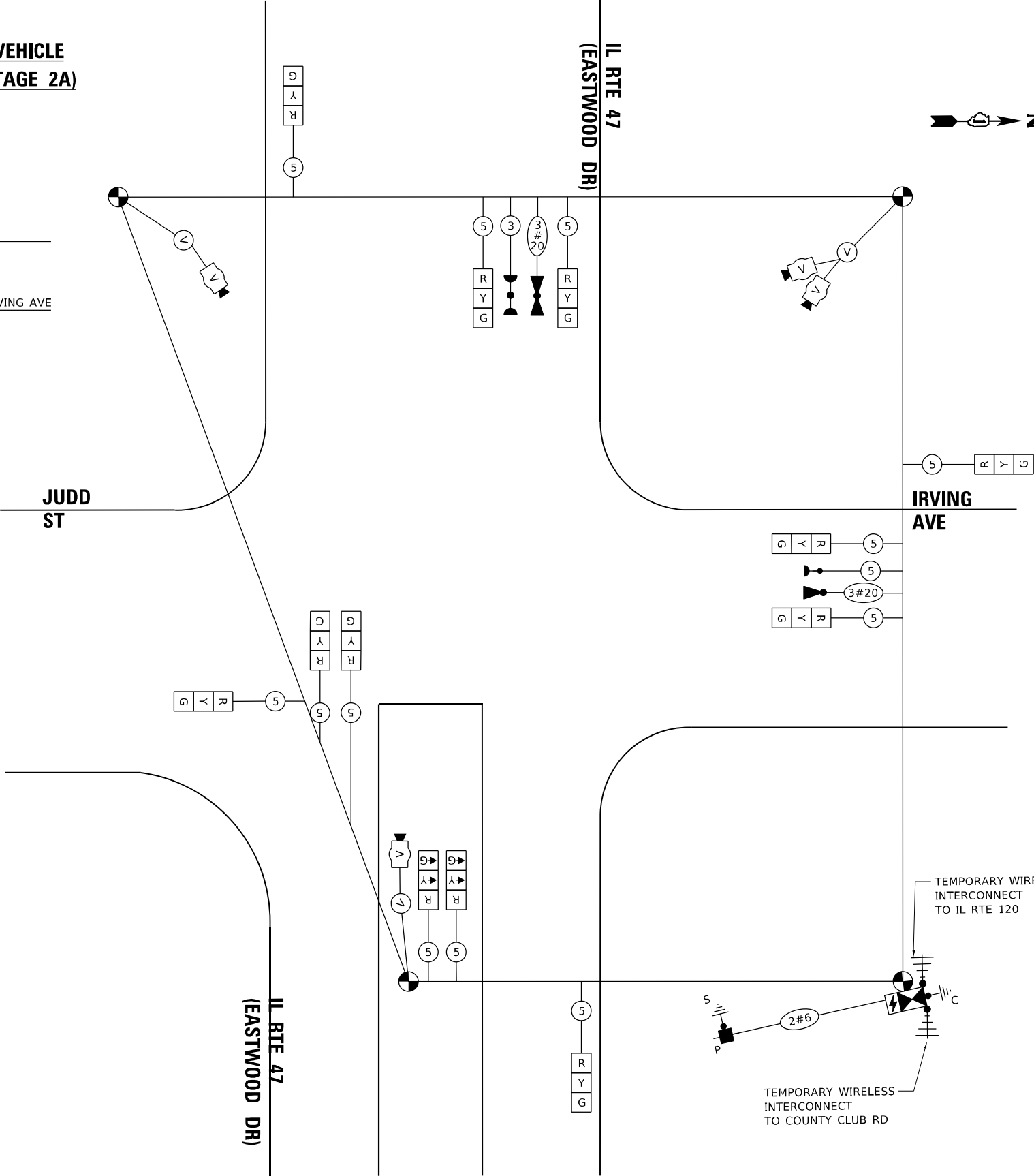
- ← (⊛) → PROTECTED PHASE
- ← (⊛) - - PROTECTED/PERMITTED PHASE
- ← (⊛) → PEDESTRIAN PHASE
- ← (⊛) OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE (STAGE 2A)



| TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS                                        |             |          |              |               |
|---------------------------------------------------------------------------------------|-------------|----------|--------------|---------------|
| TYPE                                                                                  |             | QUANTITY | UNIT WATTAGE | TOTAL WATTAGE |
| SIGNAL HEAD                                                                           | 3 - SECTION | 11       | 11           | 121.0         |
|                                                                                       | 4 - SECTION | -        | 14           | -             |
|                                                                                       | 5 - SECTION | -        | 13           | -             |
| PROGRAMMABLE SIGNALS                                                                  |             |          |              | -             |
|                                                                                       | 3 - SECTION | -        | 22           | -             |
|                                                                                       | 4 - SECTION | -        | 32           | -             |
|                                                                                       | 5 - SECTION | -        | 28           | -             |
| PED. SIGNAL                                                                           |             | -        | 15           | -             |
| CONTROLLER                                                                            |             | 1        | 150          | 150.0         |
| MASTER CONTROLLER                                                                     |             | -        | 100          | -             |
| UPS                                                                                   |             | 1        | 25           | 25.0          |
| DETECTION                                                                             | RADAR       | -        | 20           | -             |
|                                                                                       | VIDEO       | 1        | 20           | 20.0          |
| BLANK-OUT SIGN                                                                        |             | -        | 25           | -             |
| NETWORK SWITH II OR III                                                               |             | -        | 35           | -             |
| CELLULAR MODEM                                                                        |             | -        | 15           | -             |
| TOTAL UPS SIZING =                                                                    |             |          |              | 316.0         |
| UPS CHARGING                                                                          |             | -        | 225          | -             |
| BATTERY HEATER MAT                                                                    |             | -        | 180          | -             |
| CABINET HEATER                                                                        |             | -        | 200          | -             |
| FLASHER                                                                               |             | -        | 15           | -             |
| LED STREET NAME SIGN                                                                  |             | -        | 120          | -             |
| LUMINAIRE                                                                             |             | -        | 240          | -             |
|                                                                                       |             |          |              | 316.0         |
| ENERGY COSTS TO:<br>CITY OF WOODSTOCK<br>121 W. CALHOUN STREET<br>WOODSTOCK, IL 60098 |             |          |              |               |
| ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS                                            |             |          |              |               |
| PHONE: 630-424-5704                                                                   |             |          |              |               |
| COMPANY: COMMONWEALTH EDISON                                                          |             |          |              |               |
| ACCOUNT NUMBER: ---                                                                   |             |          |              |               |

CABLE PLAN  
(STAGE 2A)  
(NOT TO SCALE)



TS 15087  
ECON 167

MODEL: Default  
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|            |                   |
|------------|-------------------|
| USER NAME  | = nsalehian       |
| PLOT SCALE | = 40,0000 * / in. |
| PLOT DATE  | = 2/6/2025        |

|          |   |            |
|----------|---|------------|
| DESIGNED | - | NS         |
| DRAWN    | - | NS         |
| CHECKED  | - | TS         |
| DATE     | - | 02/06/2025 |

|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (SHEET 4 OF 5)  
IL RTE 47 (EASTWOOD DR) AND JUDD ST /IRVING AVE

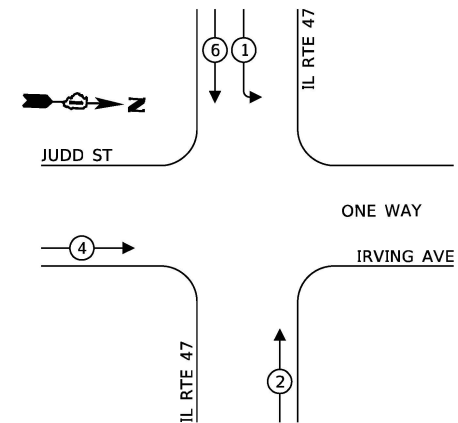
|        |       |    |        |      |    |      |
|--------|-------|----|--------|------|----|------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO | STA. |
|--------|-------|----|--------|------|----|------|

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 797       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |



MODEL: Default  
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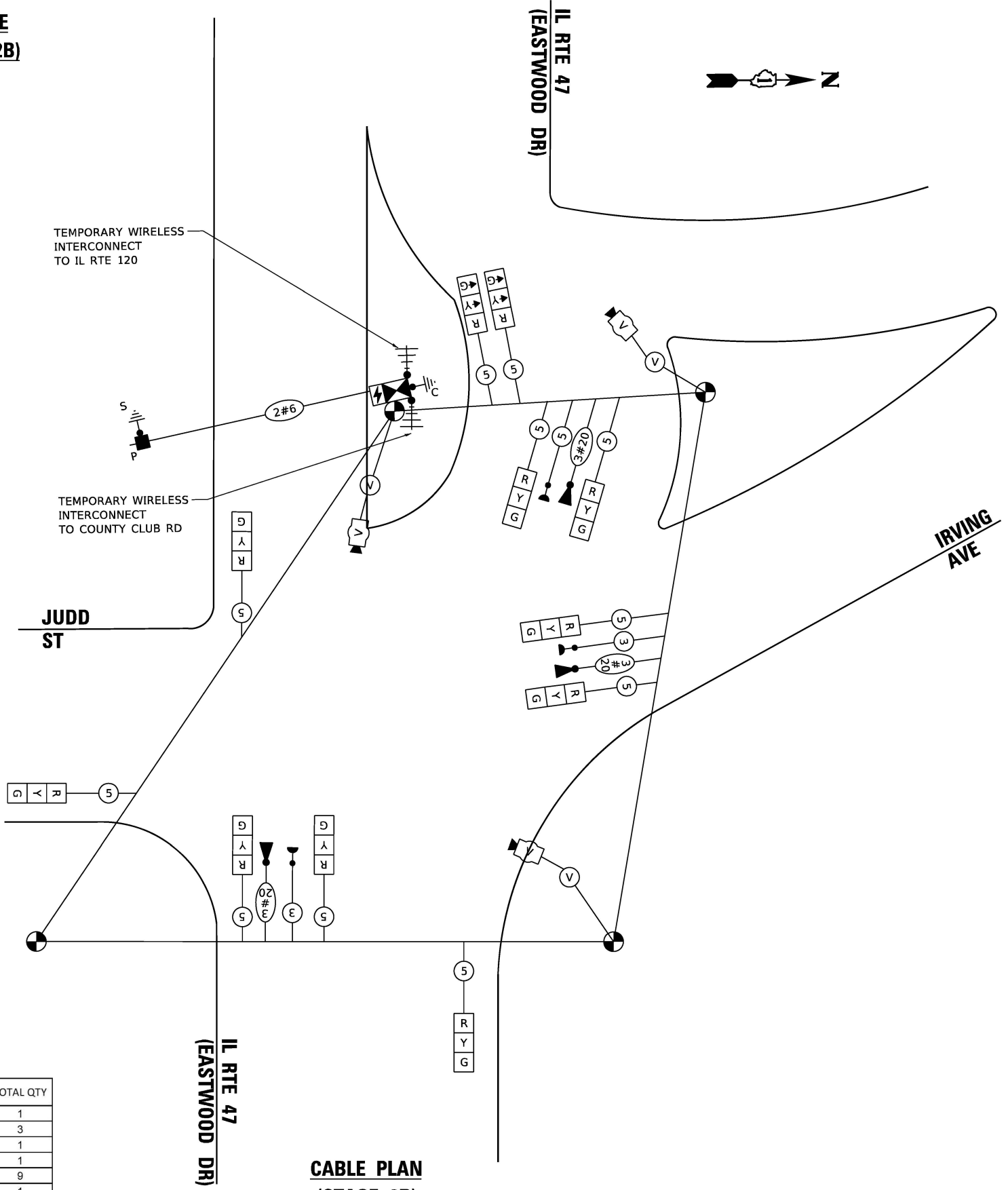
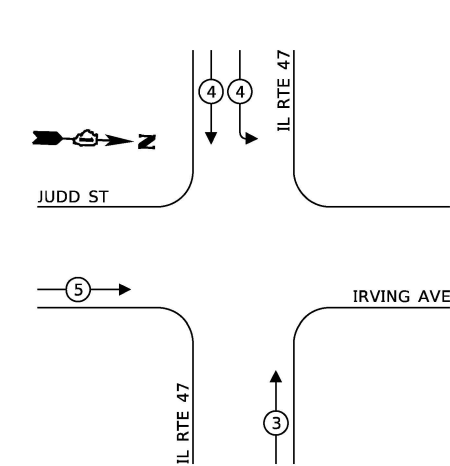
TEMPORARY CONTROLLER SEQUENCE  
(STAGE 2B)



LEGEND:

- ← \* → PROTECTED PHASE
- ← \* - - PROTECTED/PERMITTED PHASE
- ← \* → PEDESTRIAN PHASE
- ← \* OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE (STAGE 2B)



CABLE PLAN  
(STAGE 2B)  
(NOT TO SCALE)

TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS

| TYPE                    | QUANTITY    | UNIT | WATTAGE | TOTAL WATTAGE |
|-------------------------|-------------|------|---------|---------------|
| SIGNAL HEAD             | 3 - SECTION | 11   | 11      | 121.0         |
|                         | 4 - SECTION | -    | 14      | -             |
|                         | 5 - SECTION | -    | 13      | -             |
| PROGRAMMABLE SIGNALS    |             |      |         | -             |
|                         | 3 - SECTION | -    | 22      | -             |
|                         | 4 - SECTION | -    | 32      | -             |
|                         | 5 - SECTION | -    | 28      | -             |
| PED. SIGNAL             |             |      |         | -             |
| CONTROLLER              | 1           | 150  | 150.0   |               |
| MASTER CONTROLLER       | -           | 100  |         |               |
| UPS                     | 1           | 25   | 25.0    |               |
| DETECTION               | RADAR       | -    | 20      | -             |
|                         | VIDEO       | 1    | 20      | 20.0          |
| BLANK-OUT SIGN          | -           | 25   | -       |               |
| NETWORK SWITH II OR III | -           | 35   | -       |               |
| CELLULAR MODEM          | -           | 15   | -       |               |
| TOTAL UPS SIZING =      |             |      | 316.0   |               |
| UPS CHARGING            | -           | 225  | -       |               |
| BATTERY HEATER MAT      | -           | 180  | -       |               |
| CABINET HEATER          | -           | 200  | -       |               |
| FLASHER                 | -           | 15   | -       |               |
| LED STREET NAME SIGN    | -           | 120  | -       |               |
| LUMINAIRE               | -           | 240  | -       |               |
|                         |             |      | 316.0   |               |

ENERGY COSTS TO:  
CITY OF WOODSTOCK  
121 W. CALHOUN STREET  
WOODSTOCK, IL 60098

ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS  
PHONE: 630-424-5704  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION                                                   | UNIT | TOTAL QTY |
|--------------------------------------------------------------------|------|-----------|
| TEMPORARY TRAFFIC SIGNAL INSTALLATION                              | EACH | 1         |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 3         |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT  | EACH | 1         |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                           | EACH | 1         |
| REMOVE EXISTING HANDHOLE                                           | EACH | 9         |
| REMOVE EXISTING DOUBLE HANDHOLE                                    | EACH | 1         |
| REMOVE EXISTING CONCRETE FOUNDATION                                | EACH | 9         |
| TEMPORARY TRAFFIC SIGNAL TIMING                                    | EACH | 1         |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (SHEET 5 OF 5)  
IL RTE 47 (EASTWOOD DR) AND JUDD ST / IRVING AVE

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 798       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

|                              |
|------------------------------|
| USER NAME = nsalehian        |
| PLOT SCALE = 40,0000 ' / in. |
| PLOT DATE = 2/6/2025         |

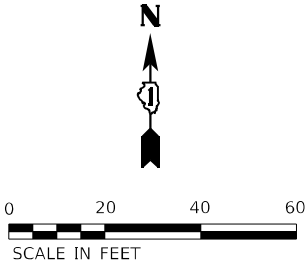
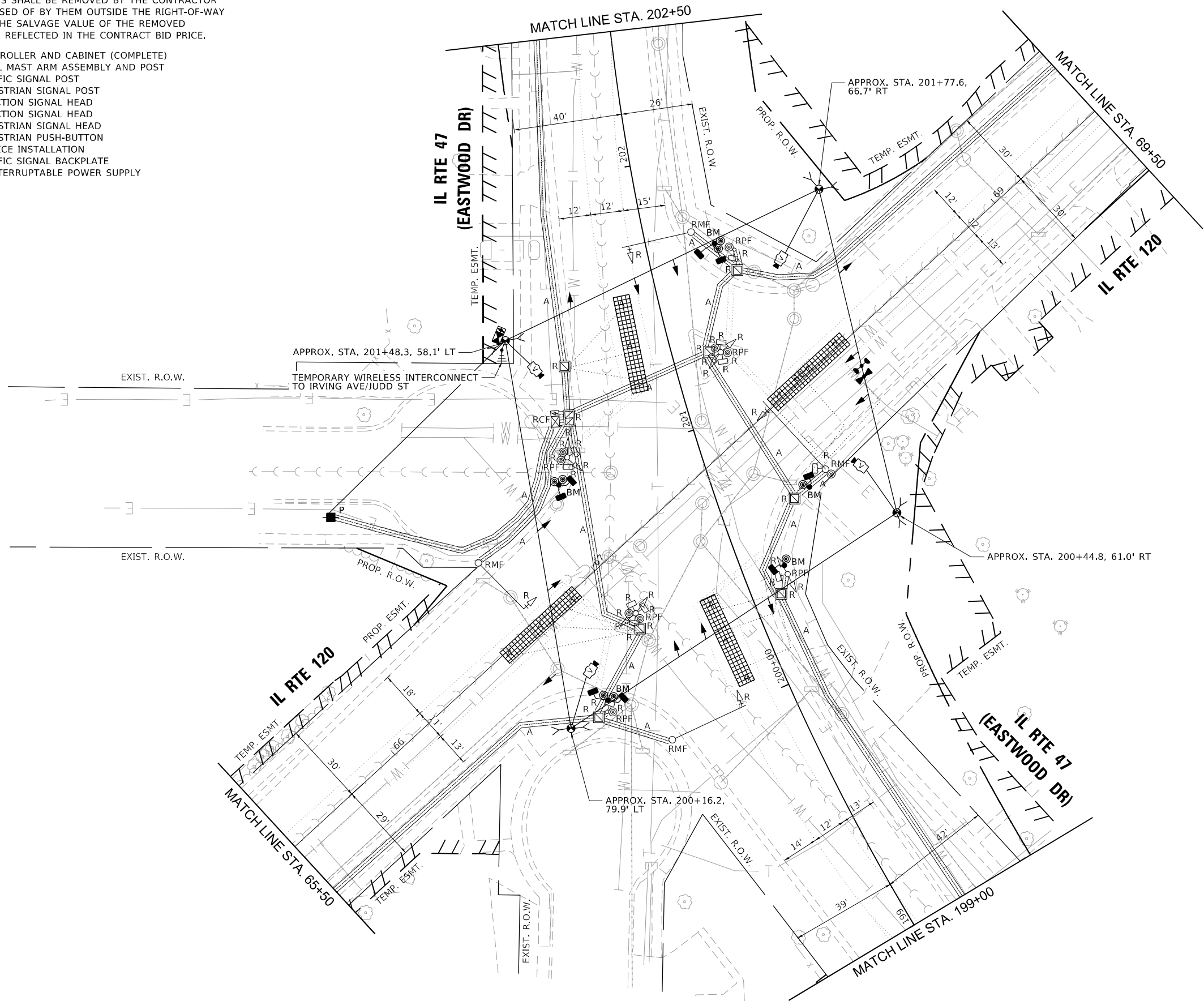
|                   |           |
|-------------------|-----------|
| DESIGNED - NS     | REVISED - |
| DRAWN - NS        | REVISED - |
| CHECKED - TS      | REVISED - |
| DATE - 02/06/2025 | REVISED - |

TS 15087  
ECON 167

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- |    |      |                                   |
|----|------|-----------------------------------|
| 1  | EACH | CONTROLLER AND CABINET (COMPLETE) |
| 4  | EACH | STEEL MAST ARM ASSEMBLY AND POST  |
| 4  | EACH | TRAFFIC SIGNAL POST               |
| 2  | EACH | PEDESTRIAN SIGNAL POST            |
| 4  | EACH | 3-SECTION SIGNAL HEAD             |
| 8  | EACH | 5-SECTION SIGNAL HEAD             |
| 12 | EACH | PEDESTRIAN SIGNAL HEAD            |
| 10 | EACH | PEDESTRIAN PUSH-BUTTON            |
| 1  | EACH | SERVICE INSTALLATION              |
| 4  | EACH | TRAFFIC SIGNAL BACKPLATE          |
| 1  | EACH | UNINTERRUPTABLE POWER SUPPLY      |



MODEL: Default  
FILE NAME: p:\data\con-cs-sw\benley.com\AECON\_DS21\_NA\_2020\Documents\60632011\IL-171900-CAD\03\_0\_CAD\03\_SHEETS\Traffic\_Signal\IL-47\_IL-120\_Ren & Temp-.ldgn



|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = nsalehian        | DESIGNED - NS     | REVISED - |
| DRAWN - NS                   | REVISED -         |           |
| PLOT SCALE = 40,0000 * / in. | CHECKED - TS      | REVISED - |
| PLOT DATE = 2/6/2025         | DATE - 02/06/2025 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND  
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 799       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15088  
ECON 167

MODEL: Default  
FILE NAME: p:\data\con-cs-sw-bentley.com\AECOM\_DS21\_NA\_2020\Documents\60627011-IL-171900-CAD\03\_SHEETS\Traffic\_Signal\IL-47\_IL-120\_Ren & Temp-2.dgn



|            |                   |            |            |           |  |
|------------|-------------------|------------|------------|-----------|--|
| USER NAME  | = nsalehian       | DESIGNED - | NS         | REVISED - |  |
| DRAWN -    | NS                | REVISED -  |            |           |  |
| PLOT SCALE | = 40,0000 * / in. | CHECKED -  | TS         | REVISED - |  |
| PLOT DATE  | = 2/6/2025        | DATE -     | 02/06/2025 | REVISED - |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND  
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

|        |       |    |        |      |         |
|--------|-------|----|--------|------|---------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
|--------|-------|----|--------|------|---------|

| F.A.P. RTE.               | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| 326                       | 2024-1052-N,C,SW,FL. | MCHENRY | 941          | 800       |
| CONTRACT NO. 62X94        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

TS 15088  
ECON 167

