

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| F.A.P. RTE. | SECTION     | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|-------------|-------------|----------|--------------------|-----------|
| 311         | (3 & 4) SFY | LASALLE  | 9                  | 1         |
|             |             | ILLINOIS | CONTRACT NO. 66M15 |           |

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5-7 FLASHING BEACON LAYOUT PLAN
- 8 TRAFFIC CONTROL DETAIL
- 9 SOIL BORINGS

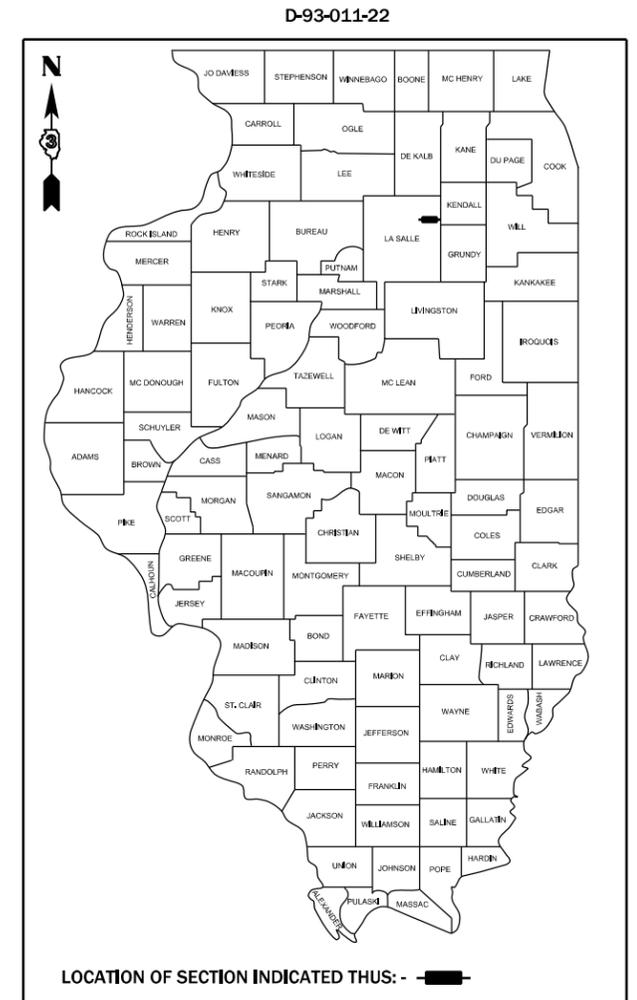
**HIGHWAY STANDARDS**

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701901-08 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-03 HANDHOLES
- 838001-01 BREAKAWAY DEVICES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 878001-11 CONCRETE FOUNDATION DETAILS
- 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

**PROPOSED  
HIGHWAY PLANS**

**FAP ROUTE 311 (IL 71)  
SECTION (3 & 4) SFY  
PROJECT: HSIP - 4FWD (747)  
FLASHING BEACON INSTALLATION  
LASALLE COUNTY**

C-93-031-22



**IL 71 - OTHER ARTERIAL**  
2019 ADT = 5350  
P.V. = 88.1% S.U. = 2.6% M.U. = 9.3%

**US 52 - MINOR ARTERIAL**  
2019 ADT = 1550  
P.V. = 93.2% S.U. = 2.2% M.U. = 4.6%

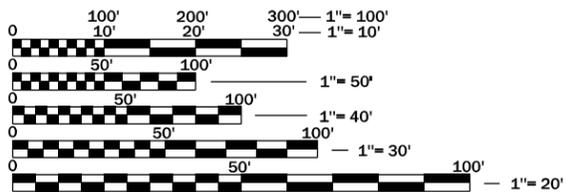
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 16, 2022

*David Almond*  
REGIONAL ENGINEER

May 13, 2022 *Joe Kannel*  
ENGINEER OF DESIGN AND ENVIRONMENT

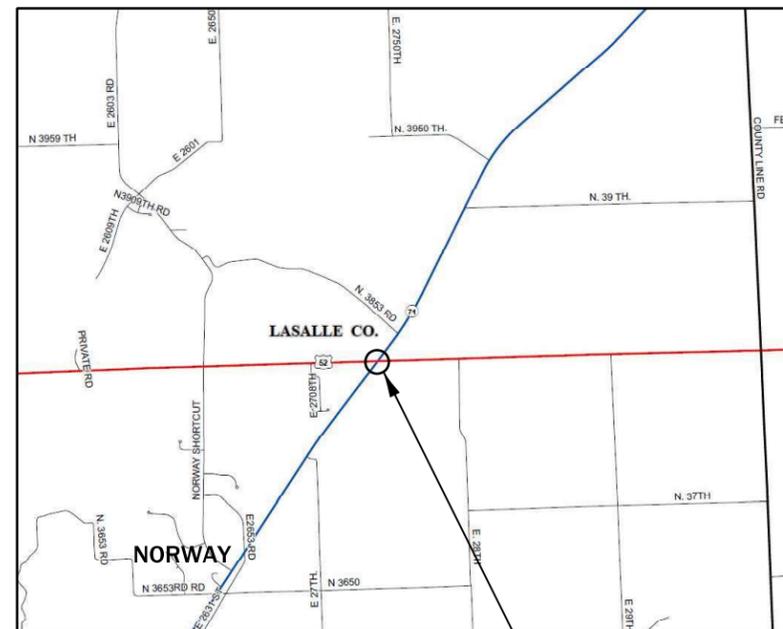
May 13, 2022 *Stephen M. Smith*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION



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

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

**PROJECT ENGINEER: JOE KANNEL, P.E.**  
**UNIT CHIEF: MARC BUDZYNSKI, P.E.**  
**DISTRICT 3 NO. (815) 434-6131**  
**CONTRACT NO. 66M15**



PROJECT LOCATION  
INTERSECTION OF IL 71 & US 52

GROSS LENGTH & NET LENGTH = POINT LOCATION

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

**TRAFFIC SIGNAL GENERAL NOTES**

THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED AT 815-434-8506 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- AMEREN ELECTRIC
- FRONTIER
- NICOR
- AT&T

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.

ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE

A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED WITH THE COST OF CONDUIT PAY ITEM.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.

ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.

**COMMITMENTS:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.

ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE POLYCARBONATE BLACK HOUSING AND BLACK BRACKETS.

ALL UNINTERRUPTIBLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.

ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 OF THE STANDARD SPECIFICATIONS.

ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

PREPARED BY: \_\_\_\_\_  
DISTRICT STUDIES & PLANS ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

DATE: \_\_\_\_\_

START & END DATES  
OF CONSTRUCTION:

\_\_\_\_\_

EXAMINED BY: \_\_\_\_\_  
DISTRICT CONSTRUCTION ENGINEER

INSPECTORS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
DISTRICT MATERIALS ENGINEER

\_\_\_\_\_

\_\_\_\_\_  
DISTRICT OPERATIONS ENGINEER

MODEL: \\MODEL\MAR15  
FILE: \\MAR15\_CAD\work\shd\shd\budzynskim\0750615\0750615-shd-cover.dwg

|                               |                  |                 |
|-------------------------------|------------------|-----------------|
| USER NAME = budzynskim        | DESIGNED - _____ | REVISED - _____ |
|                               | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = 3/14/2022         | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.P. RTE.               | SECTION     | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------|---------|--------------|-----------|
| 311                       | (3 & 4) SFY | LASALLE | 9            | 2         |
| CONTRACT NO. 66M15        |             |         |              |           |
| ILLINOIS FED. AID PROJECT |             |         |              |           |

| CODE NO. | ITEM   | UNIT  | TOTAL QUANTITY | CONSTR. CODE         |
|----------|--|-------|----------------|----------------------|
|          |  |       |                | 90% FED<br>10% STATE |
|          |  |       |                | SAFETY               |
|          |  |       |                | 0021                 |
|          |  |       |                | RURAL                |
| 67100100 | MOBILIZATION   | L SUM | 1.0            | 1.0                  |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201                    | L SUM | 1.0            | 1.0                  |
| 80500300 | SERVICE INSTALLATION, TYPE C                                       | EACH  | 1              | 1                    |
| 81028200 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.                     | FOOT  | 425            | 425                  |
| 81028350 | UNDERGROUND CONDUIT, PVC, 2" DIA.                                  | FOOT  | 3751           | 3751                 |
| 81100500 | CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL       | FOOT  | 62             | 62                   |
| 81400700 | HANDHOLE, PORTLAND CEMENT CONCRETE                                 | EACH  | 9              | 9                    |
| 85800100 | FLASHER CONTROLLER   | EACH  | 1              | 1                    |
| 87200400 | SPAN WIRE  | FOOT  | 116            | 116                  |
| 87200500 | TETHER WIRE  | FOOT  | 116            | 116                  |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C                        | FOOT  | 4300           | 4300                 |
| 87301805 | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C                      | FOOT  | 5              | 5                    |
| 87301900 | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT  | 4300           | 4300                 |
| 87302212 | ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 2C                 | FOOT  | 332            | 332                  |

MODEL: MODEL\MJMTS  
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 USER: budzynskim  
 PLOT DATE: 3/14/2022

|                              |                  |                 |
|------------------------------|------------------|-----------------|
| USER NAME = budzynskim       | DESIGNED - _____ | REVISED - _____ |
|                              | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = 100.0000' / in. | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = 3/14/2022        | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

|                           |             |         |                    |           |
|---------------------------|-------------|---------|--------------------|-----------|
| F.A.P. RTE.               | SECTION     | COUNTY  | TOTAL SHEETS       | SHEET NO. |
| 311                       | (3 & 4) SFY | LASALLE | 9                  | 3         |
|                           |             |         | CONTRACT NO. 66M15 |           |
| ILLINOIS FED. AID PROJECT |             |         |                    |           |

| CODE NO. | ITEM   | UNIT  | TOTAL QUANTITY | CONSTR. CODE         |                         |
|----------|--|-------|----------------|----------------------|-------------------------|
|          |  |       |                | 90% FED<br>10% STATE | SAFETY<br>0021<br>RURAL |
| 87302705 | ELECTRIC CABLE AERIAL SUSPENDED, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT  | 332            |                      | 332                     |
| 87800400 | CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER                             | FOOT  | 24             |                      | 24                      |
| 88040030 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION, POST MOUNTED         | EACH  | 4              |                      | 4                       |
| X1400357 | STEEL STRAIN POLE, 30FT  | EACH  | 2              |                      | 2                       |
| X8620200 | UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                    | EACH  | 1              |                      | 1                       |
| X8800081 | SIGNAL HEAD, LED, 4-FACE, 1-SECTION, SPAN WIRE MOUNTED                   | EACH  | 1              |                      | 1                       |
| Z0030850 | TEMPORARY INFORMATION SIGNING  | SQ FT | 84             |                      | 84                      |

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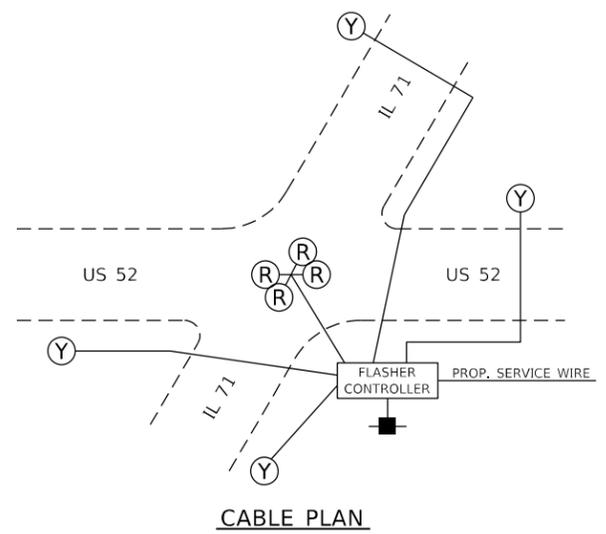
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| PLOT SCALE = 100.0000 ' / in. | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = 3/14/2022         | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

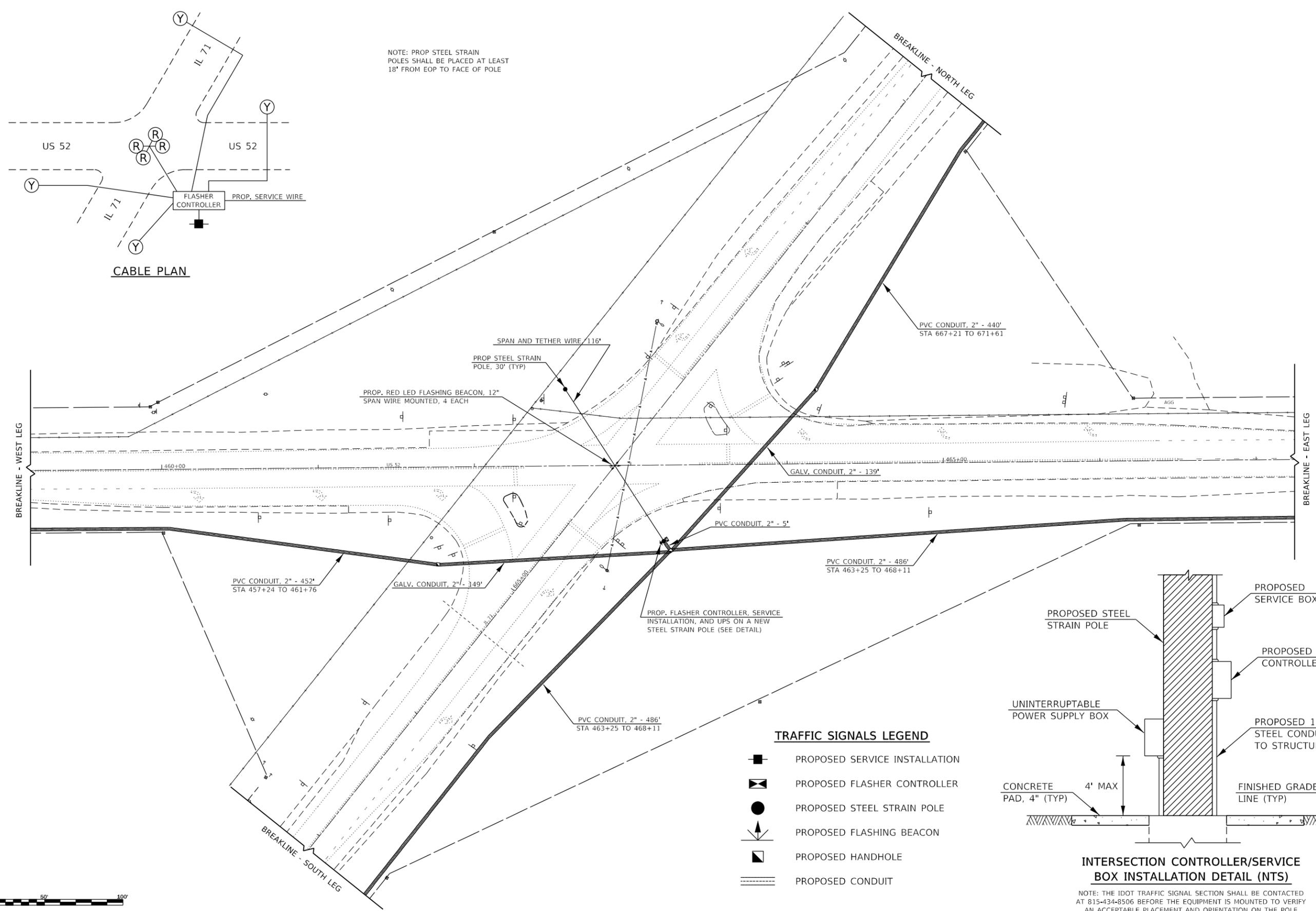
**SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

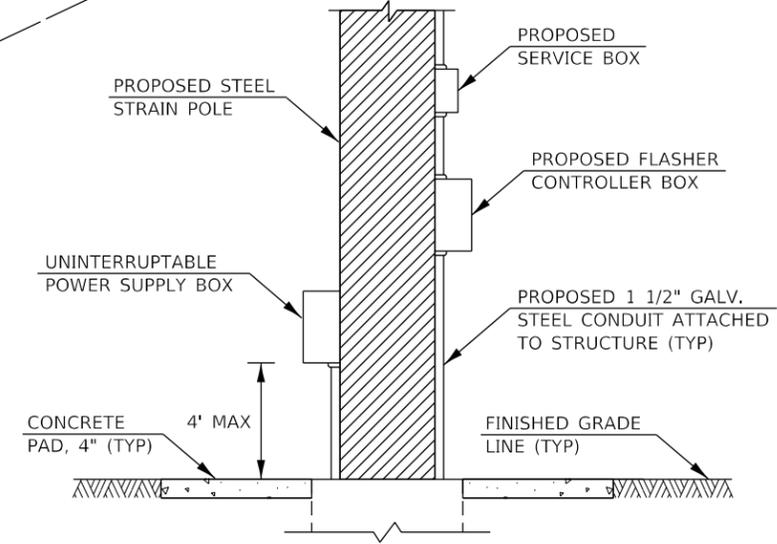
| F.A.P. RTE.               | SECTION     | COUNTY  | TOTAL SHEETS       | SHEET NO. |
|---------------------------|-------------|---------|--------------------|-----------|
| 311                       | (3 & 4) SFY | LASALLE | 9                  | 4         |
|                           |             |         | CONTRACT NO. 66M15 |           |
| ILLINOIS FED. AID PROJECT |             |         |                    |           |



NOTE: PROP STEEL STRAIN  
POLES SHALL BE PLACED AT LEAST  
18' FROM EOP TO FACE OF POLE



- TRAFFIC SIGNALS LEGEND**
- PROPOSED SERVICE INSTALLATION
  - PROPOSED FLASHER CONTROLLER
  - PROPOSED STEEL STRAIN POLE
  - PROPOSED FLASHING BEACON
  - PROPOSED HANDHOLE
  - PROPOSED CONDUIT



**INTERSECTION CONTROLLER/SERVICE  
BOX INSTALLATION DETAIL (NTS)**

NOTE: THE IDOT TRAFFIC SIGNAL SECTION SHALL BE CONTACTED  
AT 815-434-8506 BEFORE THE EQUIPMENT IS MOUNTED TO VERIFY  
AN ACCEPTABLE PLACEMENT AND ORIENTATION ON THE POLE



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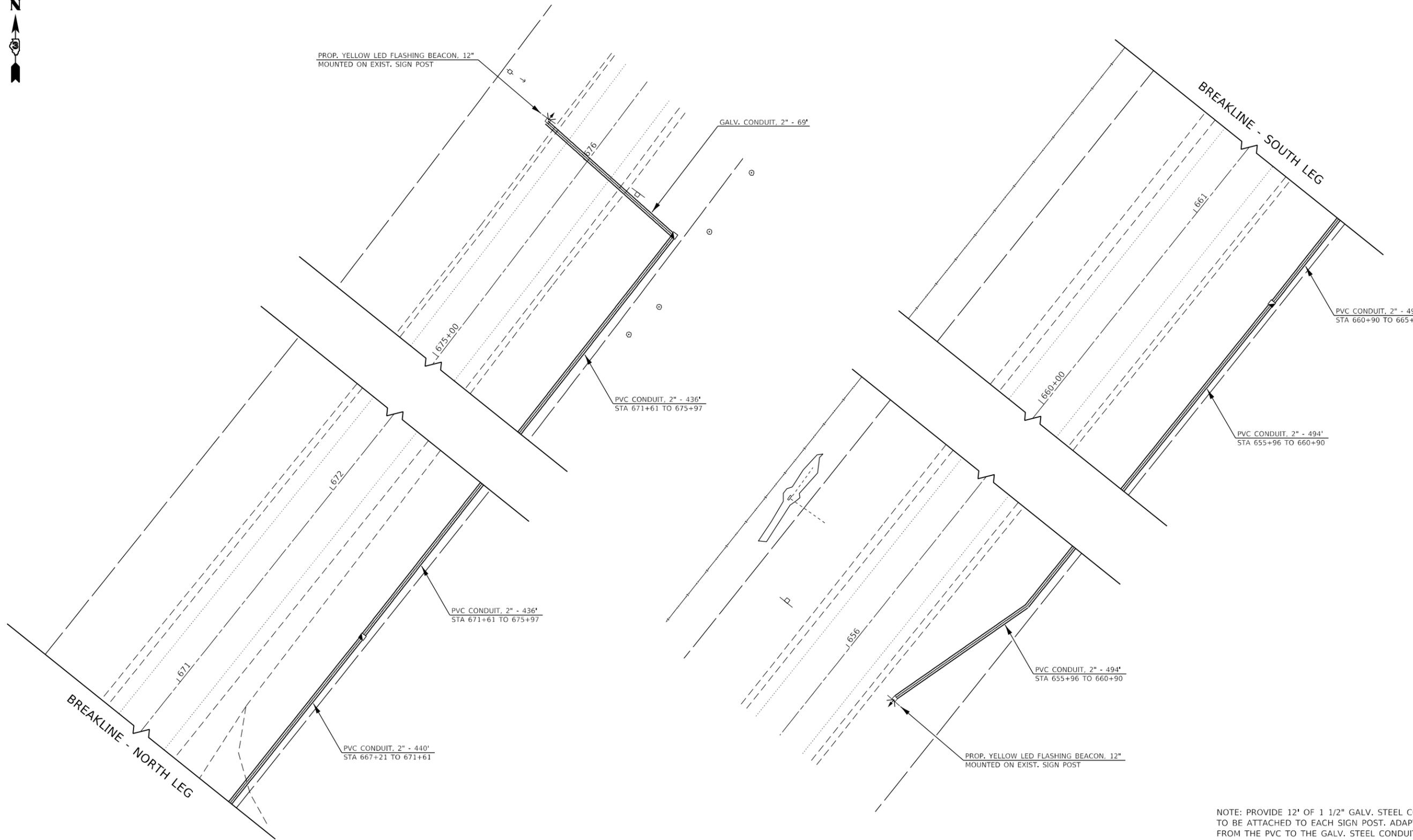
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|                             | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

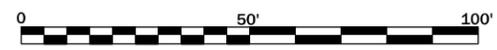
**IL 71 AND US 52  
INTERSECTION PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION     | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------|---------|--------------|-----------|
| 311                       | (3 & 4) SFY | LASALLE | 9            | 5         |
| CONTRACT NO. 66M15        |             |         |              |           |
| ILLINOIS FED. AID PROJECT |             |         |              |           |



NOTE: PROVIDE 12' OF 1 1/2" GALV. STEEL CONDUIT TO BE ATTACHED TO EACH SIGN POST. ADAPTERS FROM THE PVC TO THE GALV. STEEL CONDUIT SHALL BE INCIDENTAL



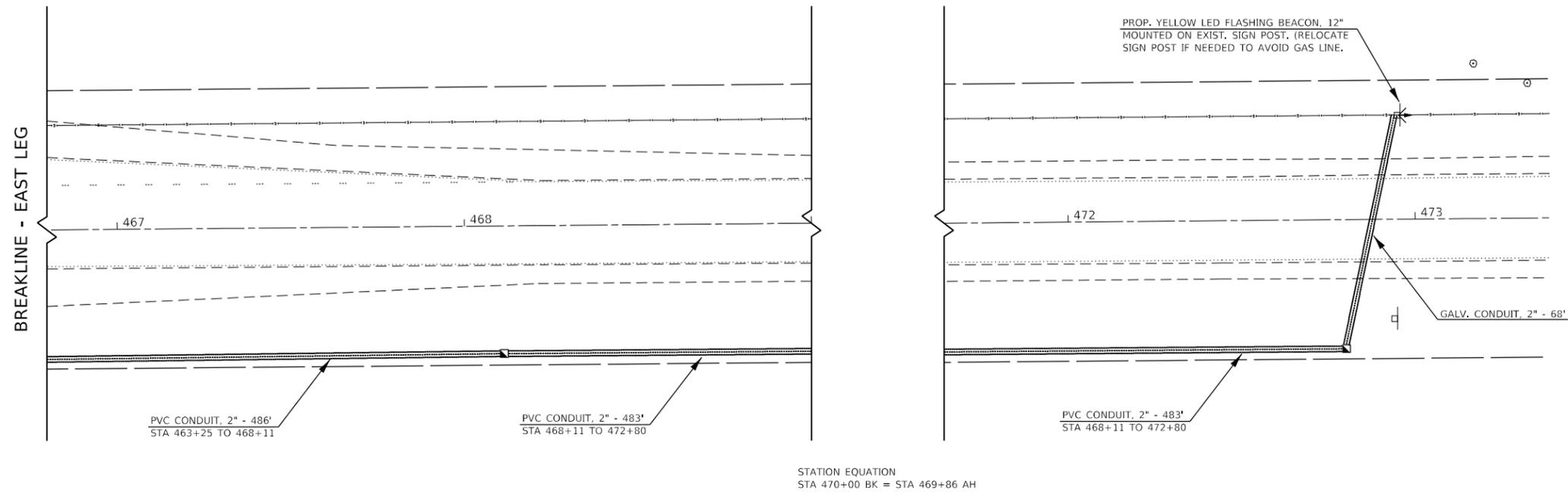
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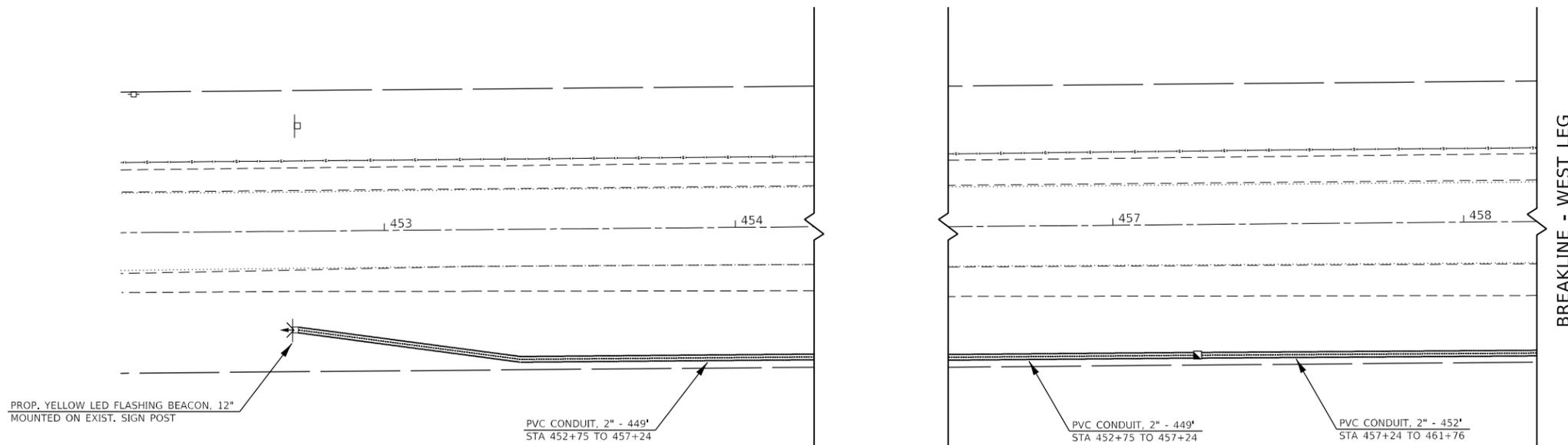
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

|                             |       |           |              |
|-----------------------------|-------|-----------|--------------|
| <b>IL 71 PLAN</b>           |       |           |              |
| <b>NORTH AND SOUTH LEGS</b> |       |           |              |
| SCALE:                      | SHEET | OF SHEETS | STA. TO STA. |

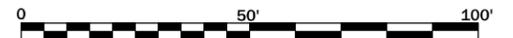
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|---------------------------|-------------|---------|--------------|-----------|
| F.A.P. RTE.               | SECTION     | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 311                       | (3 & 4) SFY | LASALLE | 9            | 6         |
| CONTRACT NO. 66M15        |             |         |              |           |
| ILLINOIS FED. AID PROJECT |             |         |              |           |



STATION EQUATION  
STA 470+00 BK = STA 469+86 AH



NOTE: PROVIDE 12' OF 1 1/2" GALV. STEEL CONDUIT TO BE ATTACHED TO EACH SIGN POST. ADAPTERS FROM THE PVC TO THE GALV. STEEL CONDUIT SHALL BE INCIDENTAL



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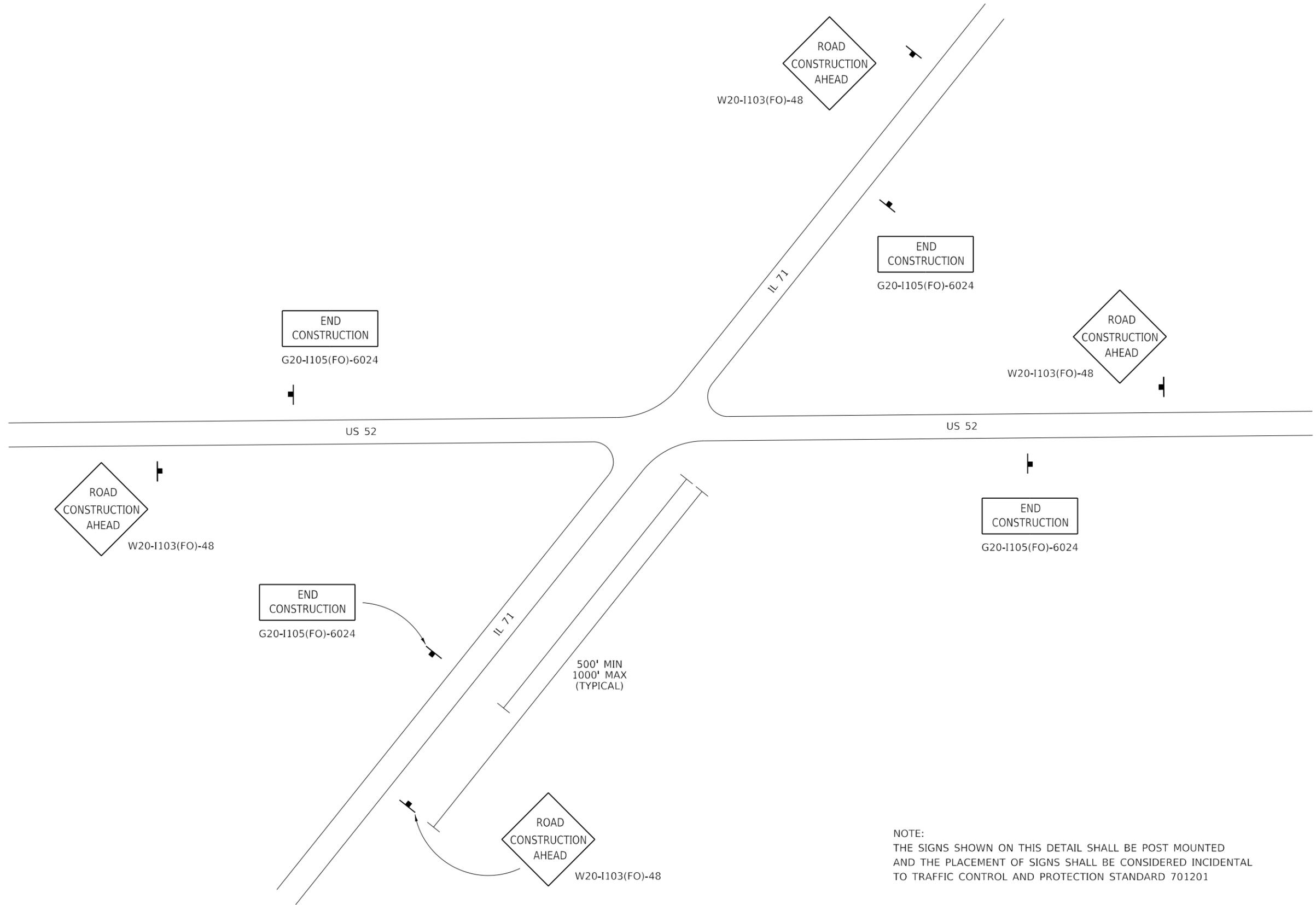
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| USER NAME = budzynskim       | DESIGNED - | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | DRAWN -    | REVISED - |
| PLOT DATE = 3/14/2022        | CHECKED -  | REVISED - |
|                              | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 52 PLAN  
EAST AND WEST LEGS**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION     | COUNTY  | TOTAL SHEETS       | SHEET NO. |
|---------------------------|-------------|---------|--------------------|-----------|
| 311                       | (3 & 4) SFY | LASALLE | 9                  | 7         |
|                           |             |         | CONTRACT NO. 66M15 |           |
| ILLINOIS FED. AID PROJECT |             |         |                    |           |



NOTE:  
 THE SIGNS SHOWN ON THIS DETAIL SHALL BE POST MOUNTED  
 AND THE PLACEMENT OF SIGNS SHALL BE CONSIDERED INCIDENTAL  
 TO TRAFFIC CONTROL AND PROTECTION STANDARD 701201

MODEL: MODEL.MAFES  
 FILE: Mafes\_cad\work\aid66\budzynskim\0750615\0366M15-shr-cover.dgn

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|------------------------------|------------------|-----------------|
| USER NAME = budzynskim       | DESIGNED - _____ | REVISED - _____ |
|                              | DRAWN - _____    | REVISED - _____ |
| PLOT SCALE = 100.0000' / in. | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = 3/14/2022        | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAIL**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

| F.A.P. RTE.        | SECTION     | COUNTY  | TOTAL SHEETS              | SHEET NO. |
|--------------------|-------------|---------|---------------------------|-----------|
| 311                | (3 & 4) SFY | LASALLE | 9                         | 8         |
| CONTRACT NO. 66M15 |             |         | ILLINOIS FED. AID PROJECT |           |

