

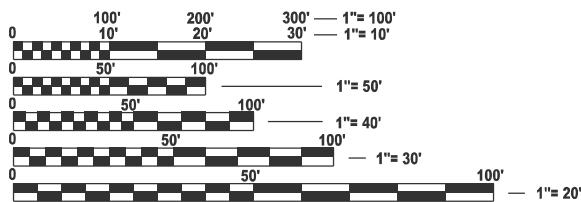
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-----------|----------|--------------------|-----------|
| 840 | (139)TS-1 | KANKAKEE | 22 | 1 |
| | | ILLINOIS | CONTRACT NO. 66R42 | |

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- 2 GENERAL NOTES
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- 15 - 16 CABLE PLAN AND PHASE DESIGNATION DIAGRAMS
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- 19 - 22 SOIL BORING LOGS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-10 TRAFFIC CONTROL DEVICES
- 720016-04 MAST ARM MOUNTED STREET NAME SIGNS
- 782001-01 CURB REFLECTORS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-03 HANDHOLES
- 838001-01 BREAKAWAY DEVICES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 877001-08 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 877002-04 STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
- 878001-11 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS



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

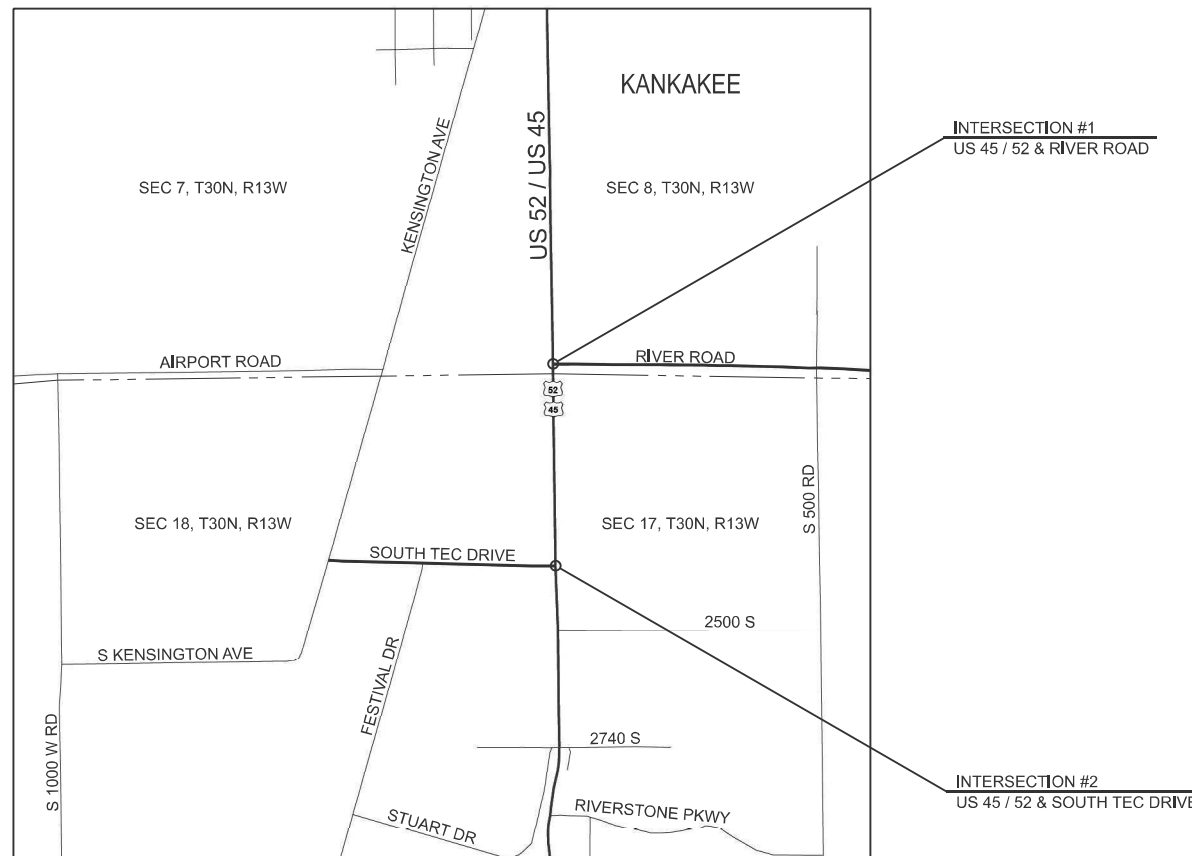
PROJECT ENGINEER: JOSEPH KANNEL, PE
PROJECT MANAGER: KYLIE LAUTERBACH, PE

CONTRACT NO. 66R42

PROPOSED HIGHWAY PLANS

FAP ROUTE 840 (US 45, US 52)
SECTION (139)TS-1

TRAFFIC SIGNAL MAST ARM REPLACEMENT
KANKAKEE COUNTY
C-93-090-25



GROSS & NET LENGTH = POINT LOCATION



FUNCTIONAL CLASSIFICATION
OTHER PRINCIPAL ARTERIAL
2023 ADT = 10800
P.V. = 92.1% S.U. = 3.5% M.U. = 4.4%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED: March 24, 2025
Trisha Thompson REGIONAL ENGINEER
May 9, 2025
Scott A. [Signature] ENGINEER OF DESIGN AND ENVIRONMENT
May 9, 2025
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

1. 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.
2. THE CONTRACTORS ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8505/815-434-8506) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.
3. ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE DEPARTMENT. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.
4. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
5. 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.
6. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. COST TO BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.
7. ALL CONDUIT IN TRENCH SHALL BE P.V.C. ALL PUSHED CONDUIT MAY BE P.V.C. OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
8. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
9. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
10. 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.
11. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED, CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

12. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.
13. ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE POLYCARBONATE BLACK HOUSING AND STEEL OR ALUMINUM BRACKETS.
14. ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 OF THE STANDARD SPECIFICATIONS.
15. 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.
16. THE MAST ARM FOUNDATIONS SHALL BE LOCATED A MINIMUM 6' FROM THE FACE OF CURB OR A MINIMUM 10' FROM THE EDGE OF PAVEMENT TO THE FACE OF FOUNDATION WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IN CURB AREA, GET MORE THAN 6' IF POSSIBLE IF THE SIGNAL HEAD STILL LINES UP IN CENTER OF LANE.
17. ANY EXCAVATED MATERIAL, WHICH INCLUDES DIGGIG OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.
18. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN LOCATED AT THE TIME OF SURVEY, OR BASED ON AVAILABLE EXISTING INFORMATION. NO GUARANTEE IS IMPLIED THAT ALL UTILITIES HAVE BEEN LOCATED OR DEPICTED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.
19. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
 AQUA ILLINOIS
 ATT DISTRIBUTION
 COMCAST
 COMED
 KANKAKEE MUNICIPAL UTILITY
 METRO COMM
 NICOR

COMMITMENTS

NONE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DISTRICT THREE
 AS BUILT INFORMATION

 SUPERVISING CONSTRUCTION FIELD ENGINEER

 RESIDENT ENGINEER / TECHNICIAN

START & END DATES
 OF CONSTRUCTION:

INSPECTORS:

MODEL: Default
 FILE NAME: c:\pwworking\hauerbach\k1068983\66R42-Cover & General Notes.dgn

| | | |
|------------------------------|------------|-----------|
| USER NAME = kylie.lauterbach | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/19/2025 | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------|----------|------------------|-----------|
| 840 | (139)TS-1 | KANKAKEE | 22 | 2 |
| CONTRACT NO. 66R42 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|------------|---|-------|----------------|---------------------|----------------------|
| | | | | 100% STATE | 100% STATE |
| | | | | US 45/52 & RIVER RD | US 45/52 & S. TEC DR |
| | | | | 0021 URBAN | 0021 URBAN |
| 20200200 | ROCK EXCAVATION | CU YD | 6 | | 6 |
| 44003100 | MEDIAN REMOVAL | SQ FT | 547 | 256 | 291 |
| 60618300 | CONCRETE MEDIAN SURFACE, 4 INCH | SQ FT | 547 | 256 | 291 |
| 67100100 | MOBILIZATION | L SUM | 1 | 0.5 | 0.5 |
| 70102620 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 | L SUM | 1 | 0.5 | 0.5 |
| 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 | 0.5 | 0.5 |
| * 72000100 | SIGN PANEL - TYPE 1 | SQ FT | 30 | 22.5 | 7.5 |
| * 72000200 | SIGN PANEL - TYPE 2 | SQ FT | 43 | 11 | 32 |
| * 78200020 | CURB REFLECTORS | EACH | 42 | 21 | 21 |
| 81028360 | UNDERGROUND CONDUIT, PVC, 2 1/2" DIA. | FOOT | 163 | 85 | 78 |
| 81028390 | UNDERGROUND CONDUIT, PVC, 4" DIA. | FOOT | 675 | 353 | 322 |
| 81400700 | HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 5 | 3 | 2 |
| 85000200 | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 2 | 1 | 1 |
| 87301245 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 3696 | 1619 | 2077 |

*SPECIALITY ITEM

MODEL: Default
FILE NAME: c:\pwworkspace\user\pwworkspace\108808316R42-SOQ.dgn

| | | |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/13/2025 | 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. |
|---------------------------|-----------|----------|--------------|-----------|
| 840 | (139)TS-1 | KANKAKEE | 22 | 3 |
| CONTRACT NO. 66R42 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|----------|---|------|----------------|---------------------|----------------------|
| | | | | 100% STATE | 100% STATE |
| | | | | US 45/52 & RIVER RD | US 45/52 & S. TEC DR |
| | | | | 0021 URBAN | 0021 URBAN |
| 87301255 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 951 | 714 | 237 |
| 87301805 | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C | FOOT | 97 | 53 | 44 |
| 87301900 | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 815 | 426 | 389 |
| 87502500 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 6 | 3 | 3 |
| 87700220 | STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. | EACH | 2 | 1 | 1 |
| 87700250 | STEEL MAST ARM ASSEMBLY AND POLE, 42 FT. | EACH | 1 | 1 | |
| 87700280 | STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. | EACH | 1 | 1 | |
| 87700290 | STEEL MAST ARM ASSEMBLY AND POLE, 50 FT. | EACH | 1 | | 1 |
| 87700340 | STEEL MAST ARM ASSEMBLY AND POLE, 58 FT. | EACH | 1 | | 1 |
| 87800100 | CONCRETE FOUNDATION, TYPE A | FOOT | 18 | 9 | 9 |
| 87800415 | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 59 | 37 | 22 |
| 87800420 | CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER | FOOT | 12 | | 12 |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 10 | 6 | 4 |
| 88040070 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 5 | 2 | 3 |

*SPECIALITY ITEM

MODEL: Default
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| | | | | | | | | | | | | |
|--------------------------|------------|-----------|---|------------------------------|-----------------|--------------|---------------------------|--------------------|---------|--------|--------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | DRAWN - | REVISED - | | 840 | (139)TS-1 | KANKAKEE | 22 | 4 | | | | |
| | CHECKED - | REVISED - | | | | | | CONTRACT NO. 66R42 | | | | |
| PLOT DATE = 3/13/2025 | DATE - | REVISED - | | SCALE: | SHEET OF SHEETS | STA. TO STA. | ILLINOIS FED. AID PROJECT | | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|----------|--|------|----------------|---------------------|----------------------|
| | | | | 100% STATE | 100% STATE |
| | | | | US 45/52 & RIVER RD | US 45/52 & S. TEC DR |
| | | | | 0021 URBAN | 0021 URBAN |
| 88040090 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 13 | 6 | 7 |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 3 | 2 | 1 |
| 88040160 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 3 | 2 | 1 |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 2 | 1 | 1 |
| 89502300 | REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 7583 | 4386 | 3197 |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 2 | 1 | 1 |
| 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 12 | 6 | 6 |
| X0323898 | CLOSED CIRCUIT TELEVISION DOME CAMERA | EACH | 2 | 1 | 1 |
| X8809005 | LED SIGNAL FACE, LENS COVER | EACH | 84 | 44 | 40 |
| X8820014 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC, SPECIAL | EACH | 24 | 12 | 12 |
| X8891202 | WIDE AREA VIDEO VEHICLE DETECTION SYSTEM COMPLETE | EACH | 2 | 1 | 1 |

*SPECIALITY ITEM

MODEL: Default
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| | | | | | | | | | | | | |
|--------------------------|------------|-----------|---|------------------------------|-----------|----------|--------|--------------------|---------|----------|------------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | DRAWN - | REVISED - | | 840 | (139)TS-1 | KANKAKEE | 22 | 5 | | | | |
| | CHECKED - | REVISED - | | | | | | CONTRACT NO. 66R42 | | | | |
| PLOT DATE = 3/13/2025 | DATE - | REVISED - | | SCALE: | SHEET | OF | SHEETS | STA. | TO STA. | ILLINOIS | FED. AID PROJECT | |

| MAST ARM FOUNDATIONS | | | | | |
|----------------------|-----------|-----------------|--------------------------------------|--------------------------------------|-----------------|
| LOCATION | | MAST ARM LENGTH | CONC. FOUND. TYPE E 36 INCH DIAMETER | CONC. FOUND. TYPE E 42 INCH DIAMETER | ROCK EXCAVATION |
| STA | OFFSET | FOOT | FOOT | FOOT | CU YD |
| RIVER ROAD | | | | | |
| 75+42 | 56' LEFT | 48 | 13 | | |
| 75+98 | 42' RIGHT | 36 | 11 | | |
| 76+73 | 42' RIGHT | 42 | 13 | | |
| SUB TOTAL | | | 37 | | |
| S TEC DRIVE | | | | | |
| 97+27 | 48' LEFT | 36 | 10 | | 1.3 |
| 96+42 | 48' LEFT | 50 | 12 | | 1.8 |
| 97+62 | 65' RIGHT | 58 | | 12 | 2.5 |
| SUB TOTAL | | | 22 | 12 | 5.6 |
| TOTAL | | | 59 | 12 | 5.6 |

| CONCRETE ISLAND SCHEDULE | | | | |
|--------------------------|--------------|----------------|-------------------------|-----------------|
| LOCATION | DESCRIPTION | MEDIAN REMOVAL | CONC. MEDIAN SURFACE 4" | CURB REFLECTORS |
| | | SQ FT | SQ FT | EACH |
| RIVER ROAD | NORTH ISLAND | 153 | 153 | 11 |
| | SOUTH ISLAND | 103 | 103 | 10 |
| RIVER ROAD SUBTOTAL | | 256 | 256 | 21 |
| SOUTH TEC DRIVE | NORTH ISLAND | 94 | 94 | 10 |
| | SOUTH ISLAND | 197 | 197 | 11 |
| SOUTH TEC DRIVE SUBTOTAL | | 291 | 291 | 21 |
| TOTAL | | 547 | 547 | 42 |

| PERMANENT SURVEY MARKER SCHEDULE | | | | | | |
|----------------------------------|--|-------------------------|------------------------|------------------------|--------------------------------|----------------|
| MONUMENT NUMBER | DESCRIPTION | APPROXIMATE LOCATION | EXISTING MONUMENT TYPE | PROPOSED MONUMENT TYPE | MONUMENT RECORD TO BE RECORDED | RESPONSIBILITY |
| 045402 | NW CORNER SECTION 17, T30N, R13W, 2ND PM | RIVER ROAD INTERSECTION | SURVEY NAIL | NO CHANGE | YES | 2 |

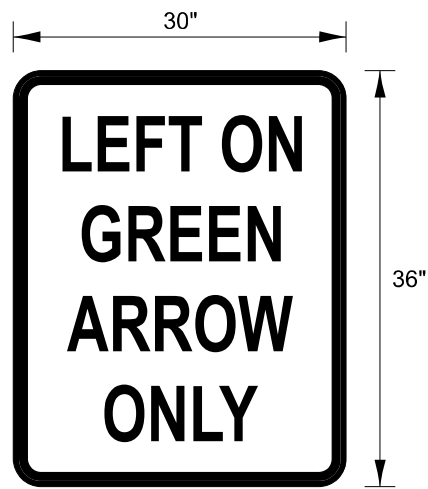
SECTION CORNER TIES WILL BE DESTROYED BY TRAFFIC SIGNAL MAST ARM REPLACEMENT.
PLATS AND PLANS TO ESTABLISH NEW SECTION CORNER TIES AND FILE NEW MONUMENT RECORD FOLLOWING INSTALLATION.

R.E. TO INFORM PLATS AND PLANS WHEN TRAFFIC SIGNAL MAST ARM REPLACEMENT IS COMPLETE.

RESPONSIBILITY:

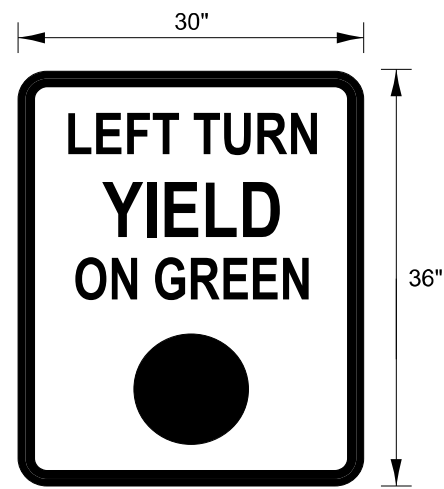
- 1) RESIDENT TO COORDINATE WITH PLATS AND PLANS STAFF TO RE-ESTABLISH MONUMENT (PAY ITEM REQUIRED ACCORDING TO THE SPECIAL PROVISION "FURNISH PERMANENT SURVEY MARKER")
- 2) PLATS AND PLANS TO RE-ESTABLISH MONUMENT

MODEL: Default
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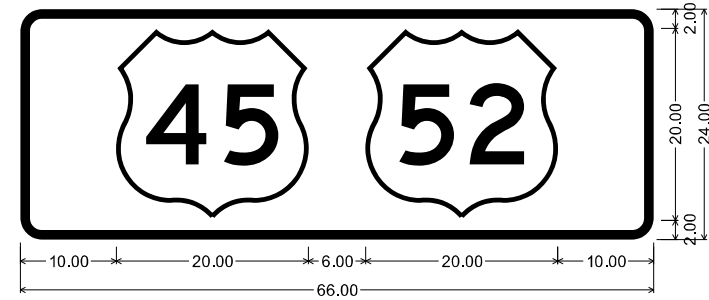
R10-5
ONE SIGN 7.5 SQ FT EACH
TYPE AP SHEETING REQUIRED

LOCATED 6"- 12" TO THE RIGHT
OF THE MAST ARM MOUNTED
LEFT SIGNAL HEAD

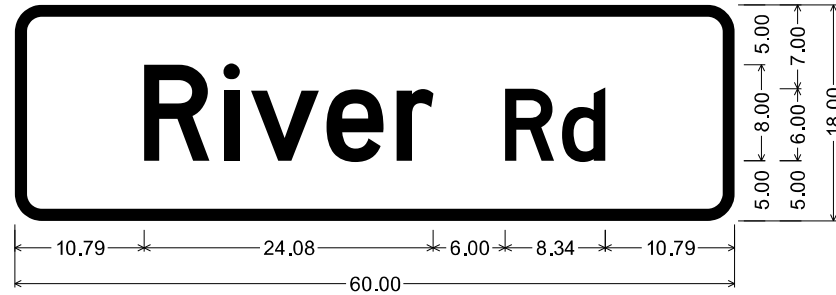


R10-12
ONE SIGN 7.5 SQ FT EACH
TYPE AP SHEETING REQUIRED

LOCATED 6"- 12" TO THE RIGHT
OF THE MAST ARM MOUNTED
LEFT SIGNAL HEAD



2.25" Radius, 1.00" Border, White on Green;
US Independent 45 M1-4; US Independent 52 M1-4;

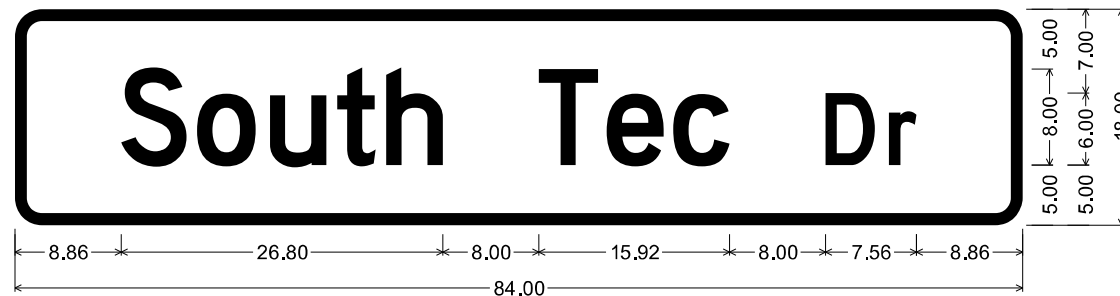


2.25" Radius, 1.00" Border, White on Green;

"River Rd", D 2K;

Table of widths and spaces

| | | | | | | | | | | | | | | |
|-------|---|------|------|---|------|-------|---|------|------|---|------|------|---|------|
| 10.79 | R | 5.44 | 1.20 | i | 1.28 | 0.96 | v | 5.68 | 0.64 | e | 4.72 | 1.12 | r | 3.04 |
| 6.00 | R | 4.08 | 0.66 | d | 3.60 | 10.79 | | | | | | | | |



2.25" Radius, 1.00" Border, White on Green;

"South Tec Dr", D 2K;

Table of widths and spaces

| | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|------|------|---|------|------|---|------|------|---|------|------|---|------|------|---|------|------|---|------|------|---|------|
| 8.86 | S | 5.44 | 0.88 | o | 4.88 | 1.20 | u | 4.72 | 0.88 | t | 3.20 | 0.88 | h | 4.72 | 8.00 | T | 4.96 | 0.72 | e | 4.72 | 0.80 | c | 4.72 |
| 8.00 | D | 4.08 | 1.20 | r | 2.28 | 8.86 | | | | | | | | | | | | | | | | | |

SIGN SCHEDULE

| LOCATION / TYPE | SIZE | QUANTITY | SIGN PANEL TYPE 1 | SIGN PANEL TYPE 2 |
|-----------------------------|-----------|----------|-------------------|-------------------|
| | INCHES | | SQ FT | SQ FT |
| RIVER ROAD | | | | |
| NORTHBOUND MAST ARM | | | | |
| RIVER ROAD STREET NAME | 18" x 60" | 1 | 7.5 | |
| SOUTHBOUND MAST ARM | | | | |
| RIVER ROAD STREET NAME | 18" x 60" | 1 | 7.5 | |
| LEFT TURN YIELD ON GREEN | 30" x 36" | 1 | 7.5 | |
| WESTBOUND MAST ARM | | | | |
| US 45-52 STREET NAME | 24" x 66" | 1 | | 11 |
| SUB TOTAL | | 4 | 22.5 | 11 |
| S TEC DRIVE | | | | |
| NORTHBOUND MAST ARM | | | | |
| SOUTH TEC DRIVE STREET NAME | 18" x 84" | 1 | | 10.5 |
| LEFT ON GREEN ARROW ONLY | 30" x 36" | 1 | 7.5 | |
| SOUTHBOUND MAST ARM | | | | |
| SOUTH TEC DRIVE STREET NAME | 18" x 84" | 1 | | 10.5 |
| EASTBOUND MAST ARM | | | | |
| US 45-52 STREET NAME | 24" x 66" | 1 | | 11 |
| SUB TOTAL | | 4 | 7.5 | 32 |
| TOTAL | | 8 | 30 | 43 |

MODEL: Default
FILE NAME: c:\pwworking\zagar\k1068083\66R42-Schedule.dgn

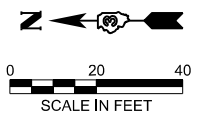
| | | |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 2/27/2025 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 840 | (139)TS-1 | KANKAKEE | 22 | 7 |
| CONTRACT NO. 66R42 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

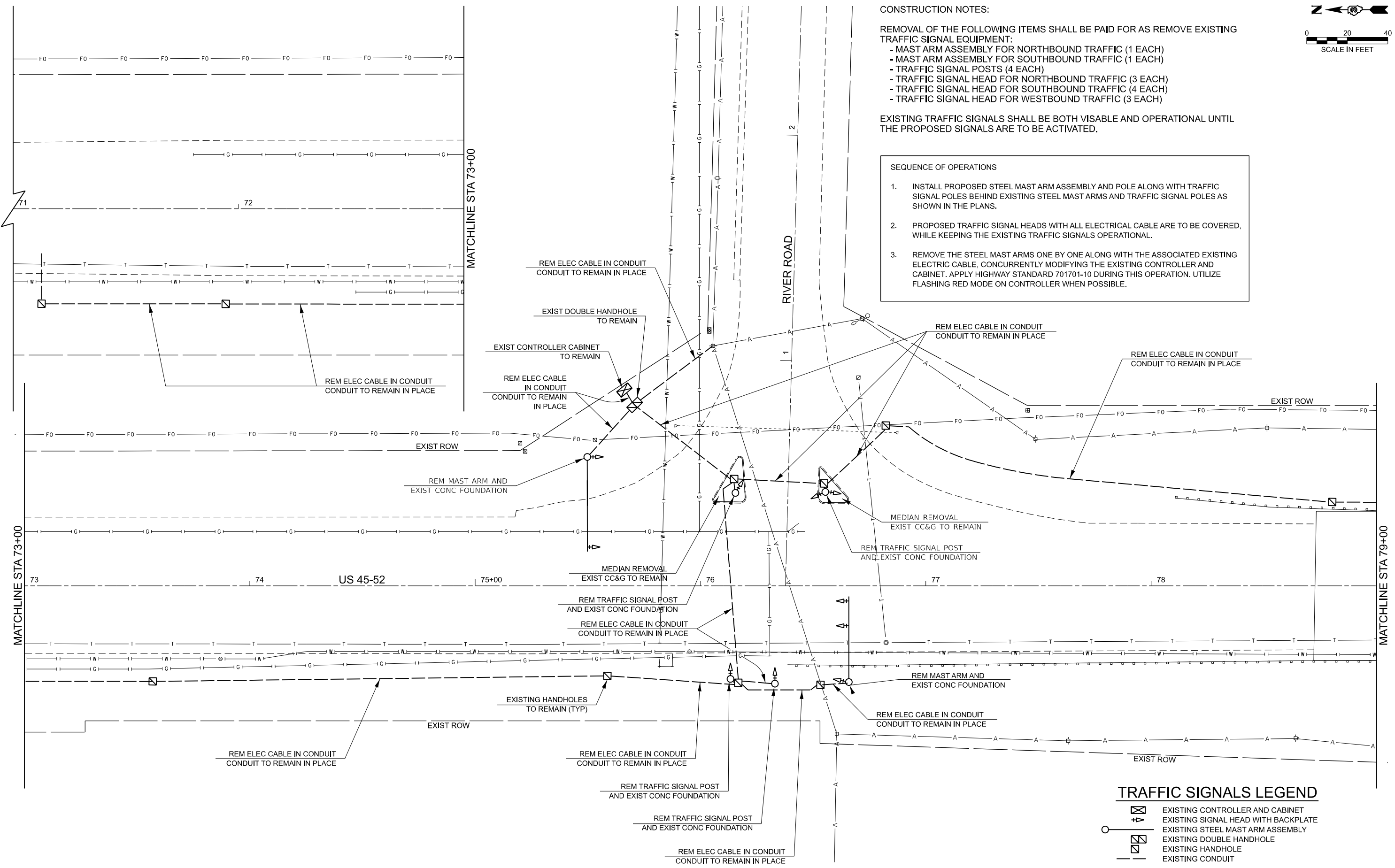


CONSTRUCTION NOTES:

- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
- MAST ARM ASSEMBLY FOR NORTHBOUND TRAFFIC (1 EACH)
 - MAST ARM ASSEMBLY FOR SOUTHBOUND TRAFFIC (1 EACH)
 - TRAFFIC SIGNAL POSTS (4 EACH)
 - TRAFFIC SIGNAL HEAD FOR NORTHBOUND TRAFFIC (3 EACH)
 - TRAFFIC SIGNAL HEAD FOR SOUTHBOUND TRAFFIC (4 EACH)
 - TRAFFIC SIGNAL HEAD FOR WESTBOUND TRAFFIC (3 EACH)

EXISTING TRAFFIC SIGNALS SHALL BE BOTH VISABLE AND OPERATIONAL UNTIL THE PROPOSED SIGNALS ARE TO BE ACTIVATED.

- SEQUENCE OF OPERATIONS**
1. INSTALL PROPOSED STEEL MAST ARM ASSEMBLY AND POLE ALONG WITH TRAFFIC SIGNAL POLES BEHIND EXISTING STEEL MAST ARMS AND TRAFFIC SIGNAL POLES AS SHOWN IN THE PLANS.
 2. PROPOSED TRAFFIC SIGNAL HEADS WITH ALL ELECTRICAL CABLE ARE TO BE COVERED, WHILE KEEPING THE EXISTING TRAFFIC SIGNALS OPERATIONAL.
 3. REMOVE THE STEEL MAST ARMS ONE BY ONE ALONG WITH THE ASSOCIATED EXISTING ELECTRIC CABLE, CONCURRENTLY MODIFYING THE EXISTING CONTROLLER AND CABINET. APPLY HIGHWAY STANDARD 701701-10 DURING THIS OPERATION. UTILIZE FLASHING RED MODE ON CONTROLLER WHEN POSSIBLE.



TRAFFIC SIGNALS LEGEND

- EXISTING CONTROLLER AND CABINET
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING STEEL MAST ARM ASSEMBLY
- EXISTING DOUBLE HANDHOLE
- EXISTING HANDHOLE
- EXISTING CONDUIT

MODEL: Removal Sheets
FILE NAME: c:\pwworking\jzagar\k1068903\66R42-Traffic Signal Removal&Installation.dgn

| | | |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/18/2025 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

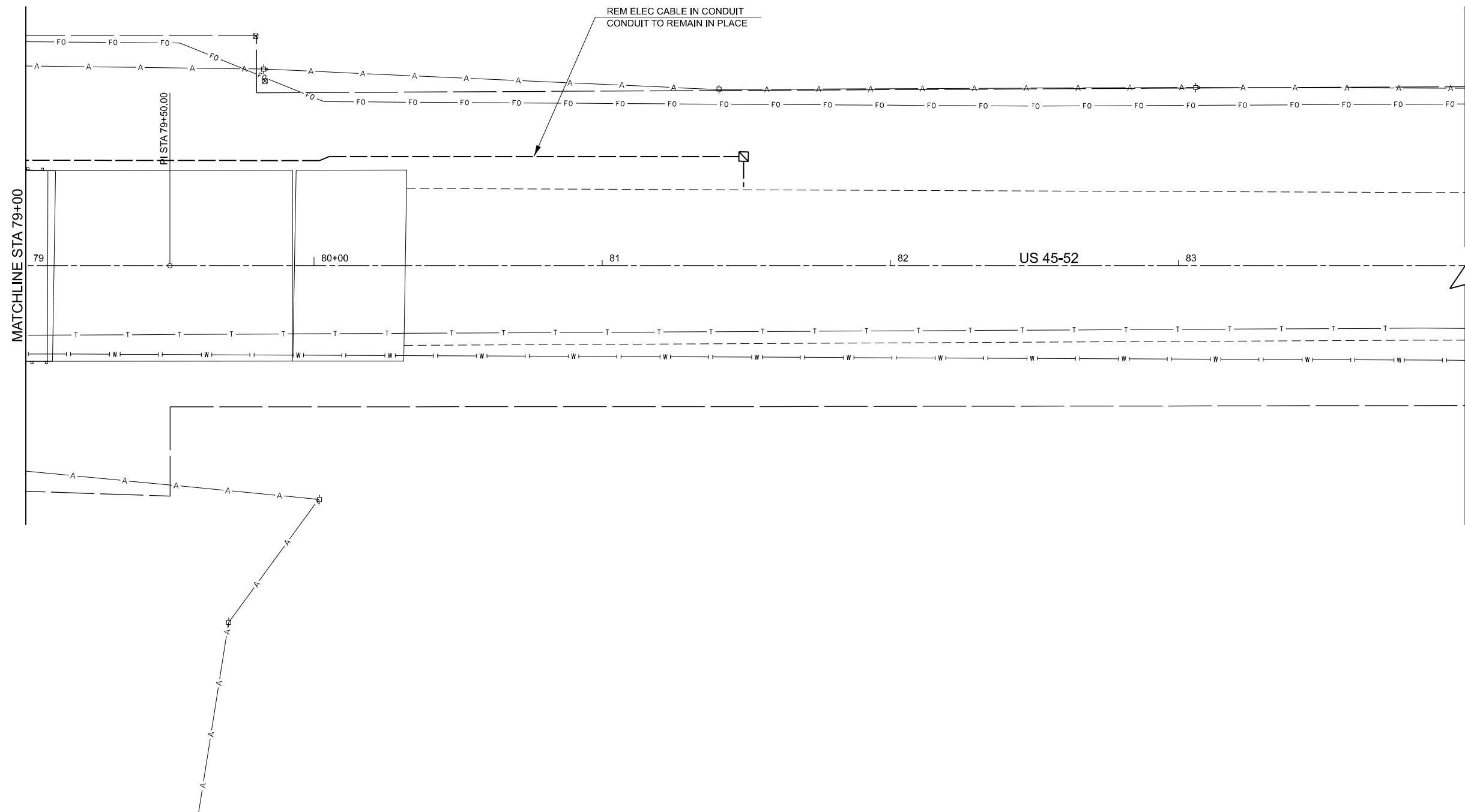
**TRAFFIC SIGNAL REMOVAL PLAN
US 45 / 52 & RIVER ROAD INTERSECTION**

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|--------------------|-----------|----------|------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 840 | (139)TS-1 | KANKAKEE | 22 | 8 |
| CONTRACT NO. 66R42 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |



- SEQUENCE OF OPERATIONS
1. INSTALL PROPOSED STEEL MAST ARM ASSEMBLY AND POLE ALONG WITH TRAFFIC SIGNAL POLES BEHIND EXISTING STEEL MAST ARMS AND TRAFFIC SIGNAL POLES AS SHOWN IN THE PLANS.
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TRAFFIC SIGNALS LEGEND

- EXISTING CONTROLLER AND CABINET
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING STEEL MAST ARM ASSEMBLY
- EXISTING DOUBLE HANDHOLE
- EXISTING HANDHOLE
- EXISTING CONDUIT

MODEL: Removal Sheets
FILE NAME: c:\pwwork\jw\koltz\zagar\k106808366R42-Traffic Signal Removal&Installation.dgn

| | | |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/18/2025 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|------------------------------------|-------|-----------|--------------|
| TRAFFIC SIGNAL REMOVAL PLAN | | | |
| US 45 / 52 & RIVER ROAD | | | |
| SCALE: | SHEET | OF SHEETS | STA. TO STA. |

| | | | | |
|--------------------|-----------|----------|------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 840 | (139)TS-1 | KANKAKEE | 22 | 9 |
| CONTRACT NO. 66R42 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

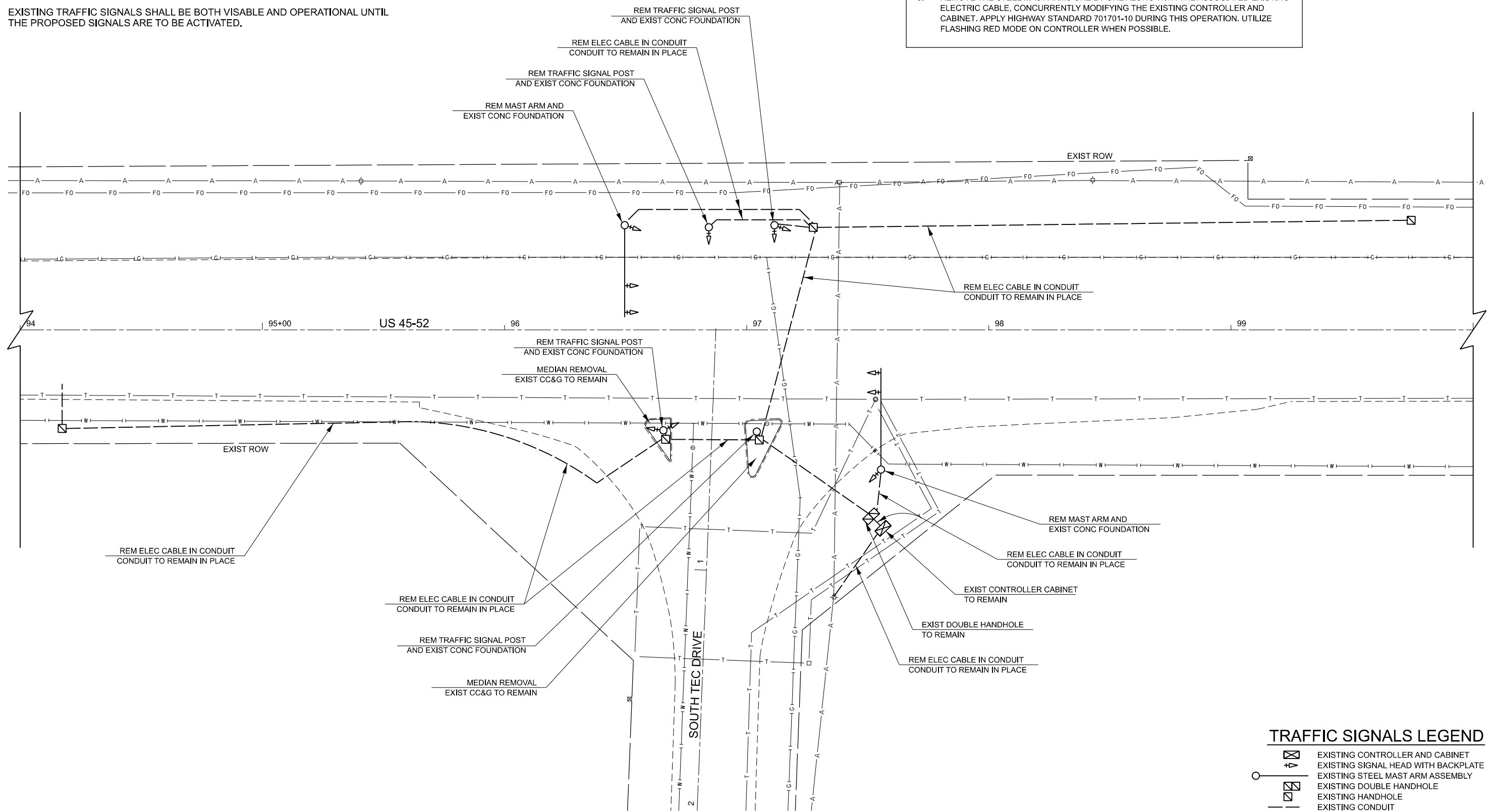
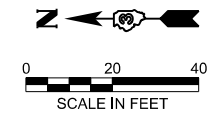
CONSTRUCTION NOTES:

REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:

- MAST ARM ASSEMBLY FOR NORTHBOUND TRAFFIC (1 EACH)
- MAST ARM ASSEMBLY FOR SOUTHBOUND TRAFFIC (1 EACH)
- TRAFFIC SIGNAL POSTS (4 EACH)
- TRAFFIC SIGNAL HEAD FOR NORTHBOUND TRAFFIC (5 EACH)
- TRAFFIC SIGNAL HEAD FOR SOUTHBOUND TRAFFIC (3 EACH)
- TRAFFIC SIGNAL HEAD FOR EASTBOUND TRAFFIC (3 EACH)

EXISTING TRAFFIC SIGNALS SHALL BE BOTH VISABLE AND OPERATIONAL UNTIL THE PROPOSED SIGNALS ARE TO BE ACTIVATED.

- SEQUENCE OF OPERATIONS**
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 3. REMOVE THE STEEL MAST ARMS ONE BY ONE ALONG WITH THE ASSOCIATED EXISTING ELECTRIC CABLE, CONCURRENTLY MODIFYING THE EXISTING CONTROLLER AND CABINET. APPLY HIGHWAY STANDARD 701701-10 DURING THIS OPERATION. UTILIZE FLASHING RED MODE ON CONTROLLER WHEN POSSIBLE.



TRAFFIC SIGNALS LEGEND

- EXISTING CONTROLLER AND CABINET
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING STEEL MAST ARM ASSEMBLY
- EXISTING DOUBLE HANDHOLE
- EXISTING HANDHOLE
- EXISTING CONDUIT

MODEL: Removal Sheets
FILE NAME: c:\pwworking\jzagar\kjd106808366R42-Traffic Signal Removal&Installation.dgn

| | | |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/18/2025 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

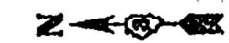
**TRAFFIC SIGNAL REMOVAL PLAN
US 45 / 52 & SOUTH TEC DRIVE INTERSECTION**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------|----------|------------------|-----------|
| 840 | (139)TS-1 | KANKAKEE | 22 | 10 |
| CONTRACT NO. 66R42 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

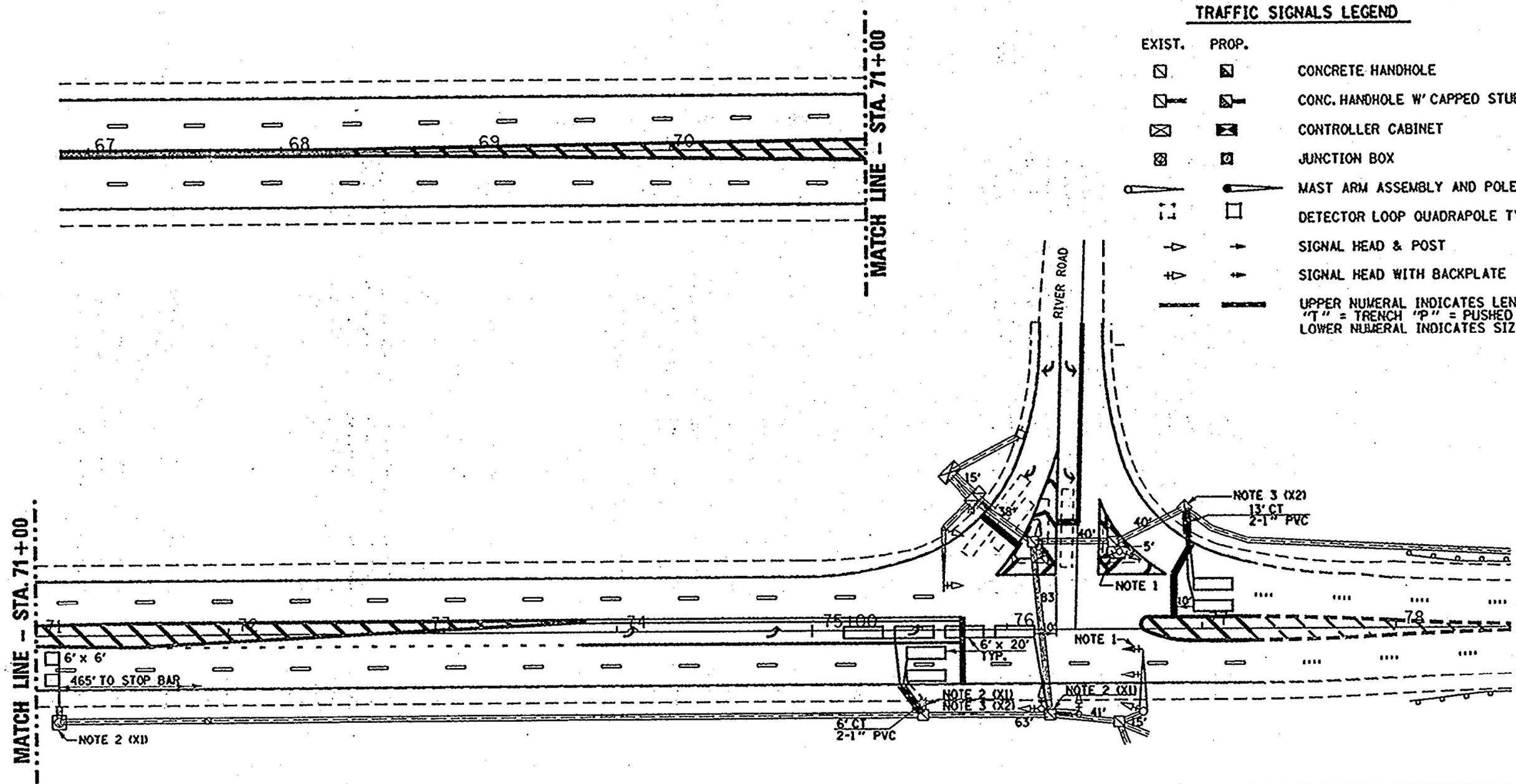
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|------------------|--------------|-----------|
| 840 | * | KANKAKEE | 21 | 12 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

* (139)RS-1, (139)RS-4



TRAFFIC SIGNALS LEGEND

| EXIST. | PROP. | |
|--------|-------|---|
| | | CONCRETE HANDHOLE |
| | | CONC. HANDHOLE W' CAPPED STUB |
| | | CONTROLLER CABINET |
| | | JUNCTION BOX |
| | | MAST ARM ASSEMBLY AND POLE |
| | | DETECTOR LOOP QUADRAPOLE TYPE |
| | | SIGNAL HEAD & POST |
| | | SIGNAL HEAD WITH BACKPLATE |
| | | UPPER NUMERAL INDICATES LENGTH "T" = TRENCH "P" = PUSHED |
| | | LOWER NUMERAL INDICATES SIZE |



FOR INFORMATION ONLY

CONSTRUCTION NOTES

1. REPLACE EXISTING THREE SECTION HEAD WITH A FIVE SECTION HEAD.
2. USE EXISTING DETECTOR LOOP DIVE TUBE.
3. DRILL EXISTING HANDHOLE.

| REVISIONS | DATE |
|-----------|------|
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ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNALS

MODEL: Removal Sheets
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AUG 24, 1999
12:00:59 PM SHEETS.DGN

| | | |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/14/2025 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING TRAFFIC SIGNAL PLAN
US 45 / 52 & RIVER ROAD INTERSECTION**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------|------------------|--------------|-----------|
| 840 | (139)TS-1 | KANKAKEE | 22 | 11 |
| CONTRACT NO. 66R42 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |

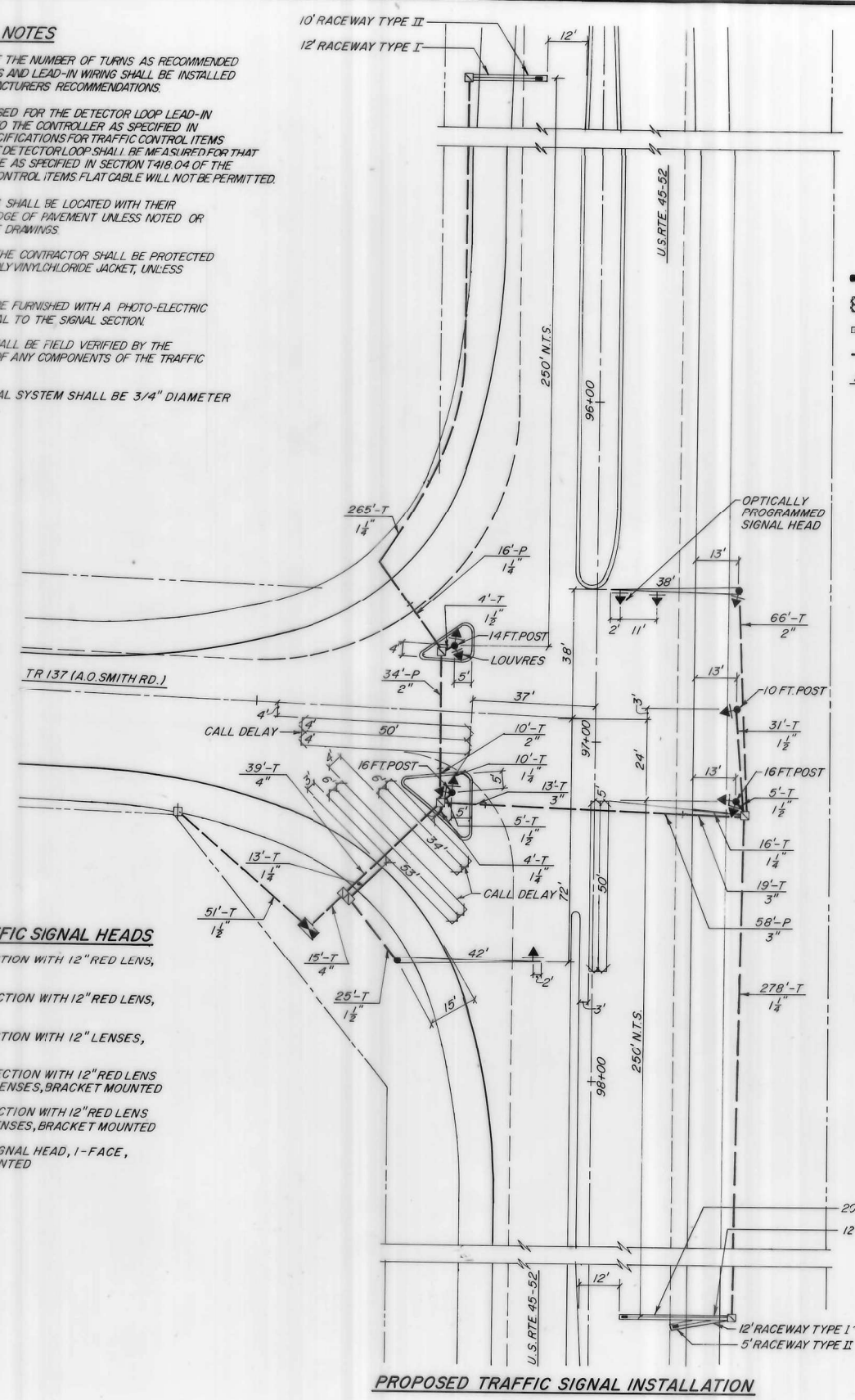
| CODE | | TOTAL | | SCHEDULE OF QUANTITIES | |
|-------|--------|-------|--------|---|------|
| UNIT | ITEM | UNIT | ITEM | UNIT | ITEM |
| 1 | EACH | 1 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION, POST MOUNTED | |
| 1 | EACH | 1 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED | |
| 2 | EACH | 2 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED | |
| 1 | EACH | 1 | EACH | SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED | |
| 2 | EACH | 2 | EACH | SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED | |
| 1 | EACH | 1 | EACH | OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED | |
| 11 | EACH | 11 | EACH | TRAFFIC SIGNAL BACKPLATE | |
| 3 | EACH | 3 | EACH | STRAIGHT RAY LOUVRE, TYPE A FOR 12-INCH LENS | |
| 1 | EACH | 1 | EACH | TRAFFIC SIGNAL POST, 10 FT. | |
| 1 | EACH | 1 | EACH | TRAFFIC SIGNAL POST, 14 FT. | |
| 2 | EACH | 2 | EACH | TRAFFIC SIGNAL POST, 16 FT. | |
| 1 | EACH | 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 38 FT. | |
| 1 | EACH | 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 42 FT. | |
| 1 | EACH | 1 | EACH | FULL ACTUATED CONTROLLER, 3 PHASES, VOLUME DENSITY FOR ONE PHASE, DIGITAL TIMING, IN TYPE III CABINET | |
| 2 | EACH | 2 | EACH | MAGNETIC DETECTOR AMPLIFIER | |
| 1 | EACH | 1 | EACH | INDUCTION LOOP DETECTOR AMPLIFIER, DIGITAL DESIGN | |
| 3 | EACH | 3 | EACH | INDUCTION LOOP DETECTOR AMPLIFIER WITH CALL DELAY, DIGITAL DESIGN | |
| 3 | EACH | 3 | EACH | MAGNETIC DETECTOR | |
| 647 | LIN FT | 647 | LIN FT | DETECTOR LOOP | |
| 586 | LIN FT | 586 | LIN FT | GALVANIZED STEEL CONDUIT IN TRENCH 1 1/4" | |
| 121 | LIN FT | 121 | LIN FT | GALVANIZED STEEL CONDUIT IN TRENCH 1 1/2" | |
| 76 | LIN FT | 76 | LIN FT | GALVANIZED STEEL CONDUIT IN TRENCH 2" | |
| 32 | LIN FT | 32 | LIN FT | GALVANIZED STEEL CONDUIT IN TRENCH 3" | |
| 54 | LIN FT | 54 | LIN FT | GALVANIZED STEEL CONDUIT IN TRENCH 4" | |
| 16 | LIN FT | 16 | LIN FT | GALVANIZED STEEL CONDUIT, PUSHED 1 1/4" | |
| 34 | LIN FT | 34 | LIN FT | GALVANIZED STEEL CONDUIT, PUSHED 2" | |
| 58 | LIN FT | 58 | LIN FT | GALVANIZED STEEL CONDUIT, PUSHED 3" | |
| 52 | LIN FT | 52 | LIN FT | ELECTRIC CABLE IN CONDUIT NO. 6 2/C | |
| 863 | LIN FT | 863 | LIN FT | ELECTRIC CABLE IN CONDUIT NO. 12 2/C | |
| 1583 | LIN FT | 1583 | LIN FT | ELECTRIC CABLE IN CONDUIT NO. 12 5/C | |
| 256 | LIN FT | 256 | LIN FT | ELECTRIC CABLE IN CONDUIT NO. 12 7/C | |
| 310 | LIN FT | 310 | LIN FT | ELECTRIC CABLE IN CONDUIT NO. 14 2/C SHIELDED | |
| 1 | EACH | 1 | EACH | SERVICE INSTALLATION, TYPE C | |
| 12 | LIN FT | 12 | LIN FT | CONCRETE FOUNDATION, TYPE A | |
| 3 1/2 | LIN FT | 3 1/2 | LIN FT | CONCRETE FOUNDATION, TYPE D | |
| 30 | LIN FT | 30 | LIN FT | CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER | |
| 5 | EACH | 5 | EACH | CONCRETE HANDHOLE | |
| 1 | EACH | 1 | EACH | CONCRETE DOUBLE HANDHOLE | |
| 869 | LIN FT | 869 | LIN FT | TRENCH AND BACKFILL | |
| 36 | LIN FT | 36 | LIN FT | RACEWAY FOR MAGNETIC DETECTOR, TYPE I | |
| 35 | LIN FT | 35 | LIN FT | RACEWAY FOR MAGNETIC DETECTOR, TYPE II | |

GENERAL NOTES

- ALL DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS AS RECOMMENDED BY THE MANUFACTURER. DETECTOR LOOPS AND LEAD-IN WIRING SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE MANUFACTURERS RECOMMENDATIONS.
- THE 2/C NO. 14 SHIELDED CABLE TO BE USED FOR THE DETECTOR LOOP LEAD-IN SHALL BE MEASURED FROM THE SPLICE TO THE CONTROLLER AS SPECIFIED IN SECTION T421.04 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS EXCEPT NO SLACK SHALL BE ALLOWED. THE DETECTOR LOOP SHALL BE MEASURED FOR THAT PORTION OF SAW CUT BEYOND THE SPLICE AS SPECIFIED IN SECTION T418.04 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. FLAT CABLE WILL NOT BE PERMITTED.
- ALL SIGNAL POSTS AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES FIVE (5) FEET FROM THE EDGE OF PAVEMENT UNLESS NOTED OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS.
- ELECTRIC CABLE THAT IS FURNISHED BY THE CONTRACTOR SHALL BE PROTECTED BY POLYETHYLENE INSULATION WITH A POLYVINYLCHLORIDE JACKET, UNLESS OTHERWISE SPECIFIED.
- ALL 12" AMBER SIGNAL SECTIONS SHALL BE FURNISHED WITH A PHOTO-ELECTRIC CONTROLLED DIMMER UNIT AS INCIDENTAL TO THE SIGNAL SECTION.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM.
- ALL GROUND RODS USED IN THE SIGNAL SYSTEM SHALL BE 3/4" DIAMETER BY 8'-0" LONG COPPER CLAD STEEL.

PROPOSED SCHEDULE OF TRAFFIC SIGNAL HEADS

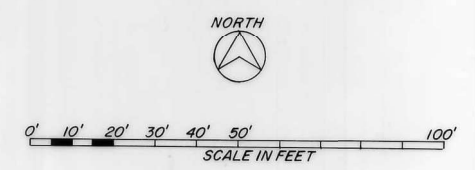
- EACH SIGNAL HEAD, 1-FACE, 3-SECTION WITH 12" RED LENS, POST MOUNTED
- EACH SIGNAL HEAD, 1-FACE, 3-SECTION WITH 12" RED LENS, BRACKET MOUNTED
- EACH SIGNAL HEAD, 1-FACE, 3-SECTION WITH 12" LENSES, MAST ARM MOUNTED
- EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION WITH 12" RED LENS AND 1-3 SECTION WITH 12" LENSES, BRACKET MOUNTED
- EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION WITH 12" RED LENS AND 1-5 SECTION WITH 12" LENSES, BRACKET MOUNTED
- EACH OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED



| | | | | |
|-------------------|----------|----------|--------------|-------------|
| F.A.P. NO. | SEC. | COUNTY | TOTAL SHEETS | SHEET NO. |
| 840 | 139-TS | KANKAKEE | 12 | 3 |
| B.P.R. REG. NO. 4 | ILLINOIS | PROJECT | | |
| | | | P-35-993-77 | C-93-053-77 |

LEGEND

- SERVICE INSTALLATION
- CONCRETE HANDHOLE
- CONTROLLER CABINET
- SIGNAL HEAD AND POST
- SIGNAL HEAD AND BACKPLATE
- MAST ARM ASSEMBLY AND POLE
- DETECTOR LOOP, QUADRAPOLE TYPE
- MAGNETIC DETECTOR
- GALVANIZED STEEL CONDUIT
- UPPER NUMERAL INDICATES LENGTH
- "T" INDICATES CONDUIT IN TRENCH
- "P" INDICATES CONDUIT PUSHED
- "ATS" INDICATES CONDUIT ATTACHED TO STRUCTURE
- LOWER NUMERAL INDICATES SIZE



FOR INFORMATION ONLY

DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INSTALLATION

U.S. RTE. 45-52 & TR 137

SCALE: 1"=20'-0" DRAWN BY: H.M.

DATE: CHECKED BY: HE.H.

MODEL - Removal Sheets
FILE NAME: c:\pwworking\hollizagar\k1068903\66R42-Traffic Signal Removal\Installation.dgn

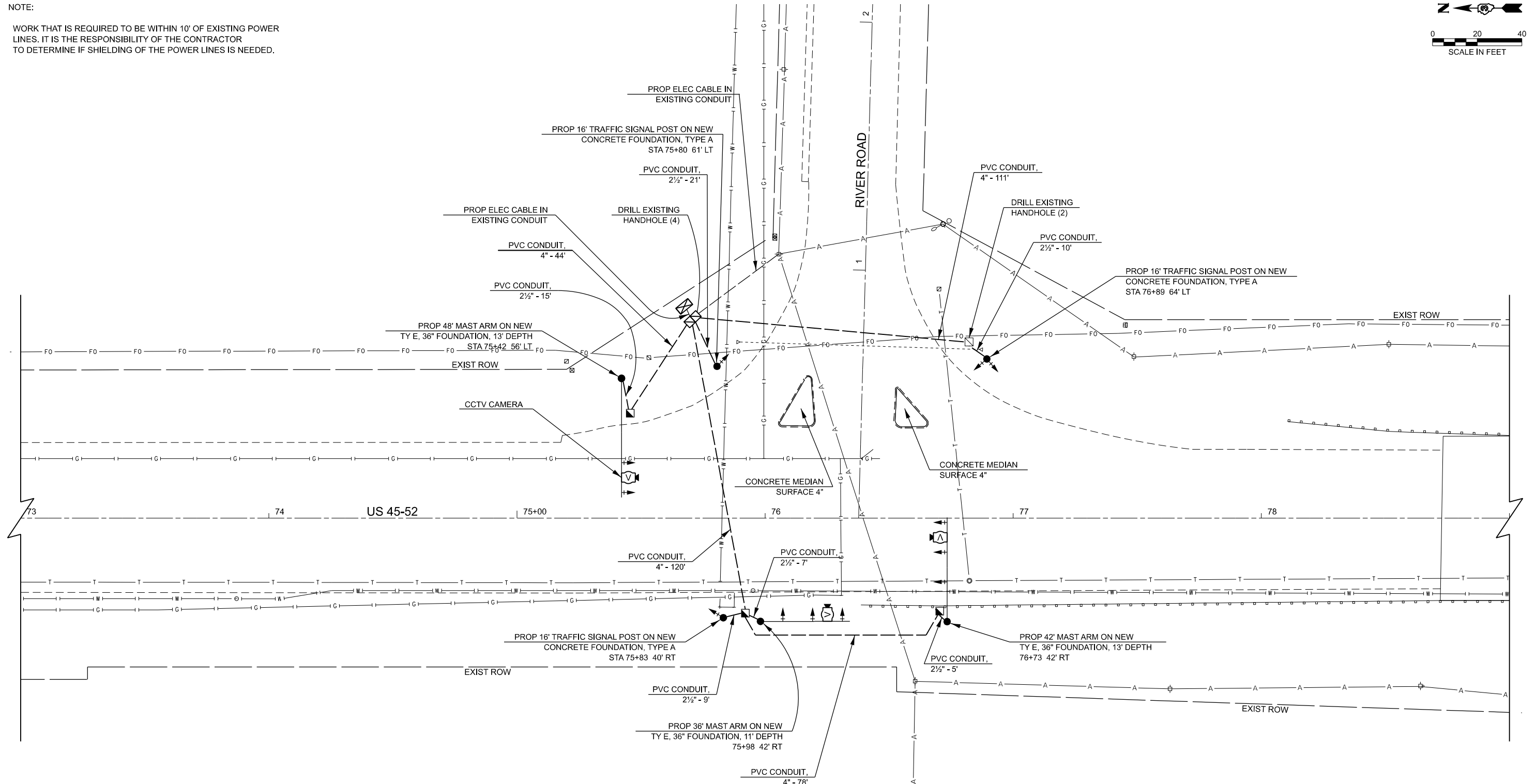
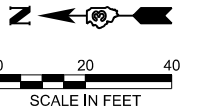
| | | |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/14/2025 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|--|-------|-----------|--------------|
| EXISTING TRAFFIC SIGNAL PLAN | | | |
| US 45 / 52 & SOUTH TEC DRIVE INTERSECTION | | | |
| SCALE: | SHEET | OF SHEETS | STA. TO STA. |

| | | | | |
|--------------------|-----------|------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 840 | (139)TS-1 | KANKAKEE | 22 | 12 |
| CONTRACT NO. 66R42 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |

NOTE:
 WORK THAT IS REQUIRED TO BE WITHIN 10' OF EXISTING POWER LINES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF SHIELDING OF THE POWER LINES IS NEEDED.



- SEQUENCE OF OPERATIONS**
1. INSTALL PROPOSED STEEL MAST ARM ASSEMBLY AND POLE ALONG WITH TRAFFIC SIGNAL POLES BEHIND EXISTING STEEL MAST ARMS AND TRAFFIC SIGNAL POLES AS SHOWN IN THE PLANS.
 2. PROPOSED TRAFFIC SIGNAL HEADS WITH ALL ELECTRICAL CABLE ARE TO BE COVERED, WHILE KEEPING THE EXISTING TRAFFIC SIGNALS OPERATIONAL.
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MODEL: Proposed
 FILE NAME: c:\pwworking\jzagar\k106808366R42-Traffic Signal Removal&Installation.dgn

| | | |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/19/2025 | DATE - | REVISED - |

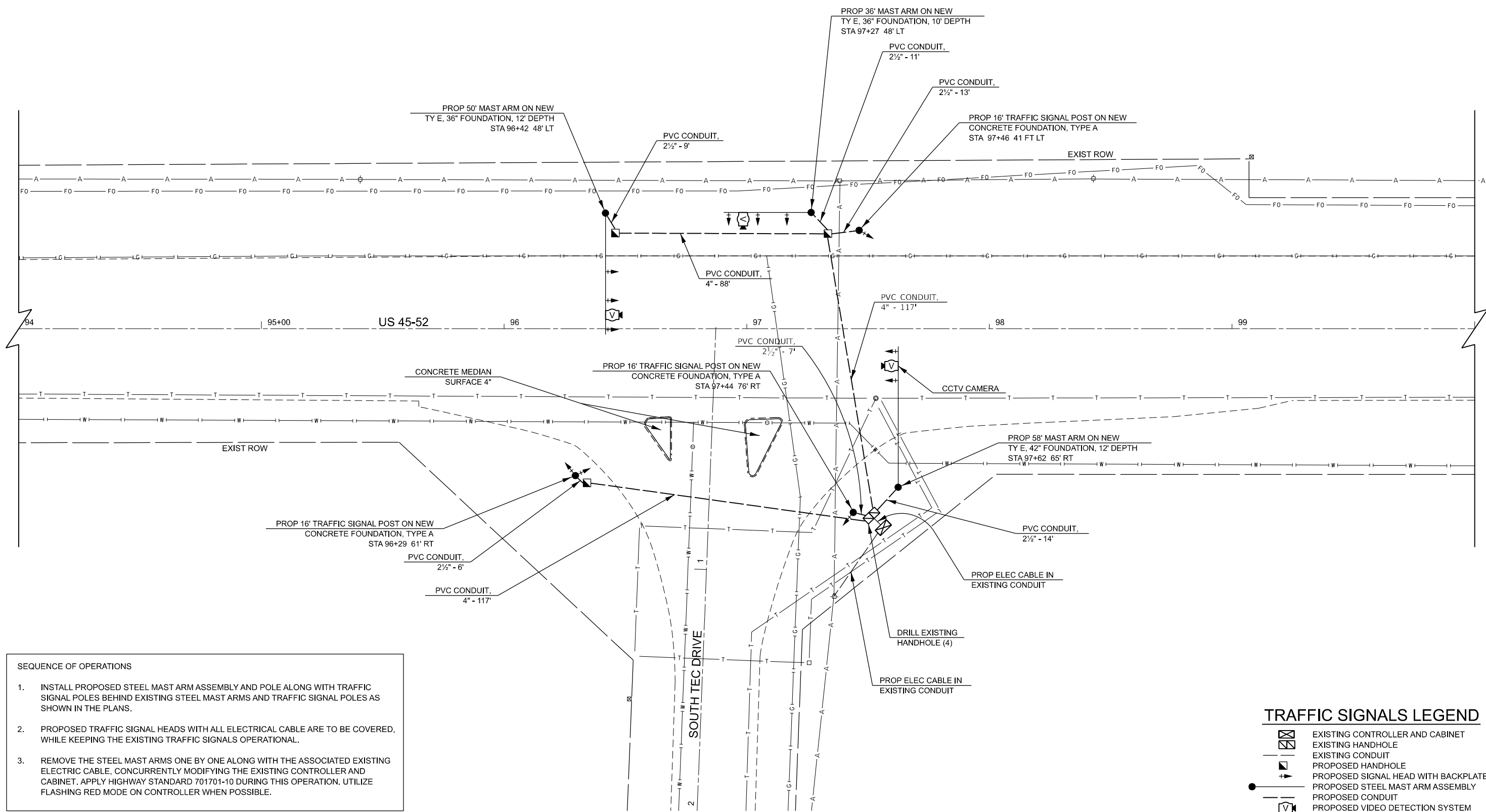
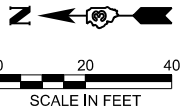
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | | | |
|---|-------|-----------|--------------|
| PROPOSED TRAFFIC SIGNAL PLAN US 45 / 52 & RIVER ROAD INTERSECTION | | | |
| SCALE: | SHEET | OF SHEETS | STA. TO STA. |

| | | | | |
|--------------------|-----------|----------|------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 840 | (139)TS-1 | KANKAKEE | 22 | 13 |
| CONTRACT NO. 66R42 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

NOTE:

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- SEQUENCE OF OPERATIONS**
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MODEL: Processed
FILE NAME: c:\pwworking\jzagar\k106808366R42-Traffic Signal Removal&Installation.dgn

| | | |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/18/2025 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TRAFFIC SIGNAL PLAN
US 45 / 52 & SOUTH TEC DRIVE INTERSECTION**

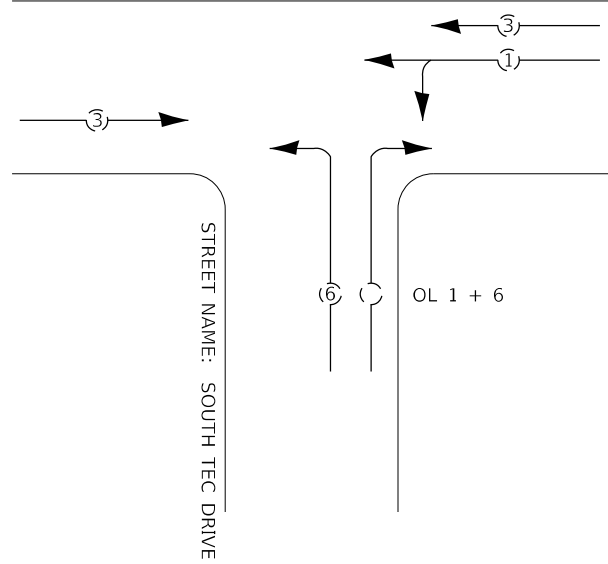
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------|----------|------------------|-----------|
| 840 | (139)TS-1 | KANKAKEE | 22 | 14 |
| CONTRACT NO. 66R42 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

EXISTING PHASE DESIGNATION DIAGRAM

NAME OF INTERSECTION: US 45 - 52 AND SOUTH TEC DRIVE

STREET NAME: US 45 - 52



LEGEND

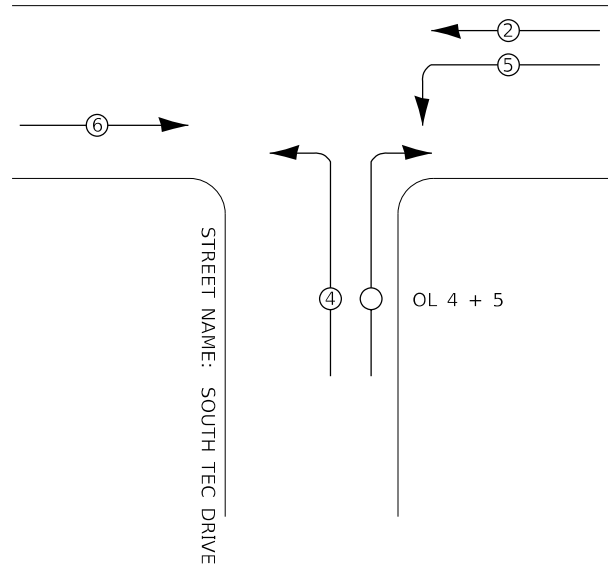
- ← * — VEHICULAR MOVEMENT
- *NUMBER REFERS TO ASSOCIATED PHASE

NOT TO SCALE

PROPOSED PHASE DESIGNATION DIAGRAM

NAME OF INTERSECTION: US 45 - 52 AND SOUTH TEC DRIVE

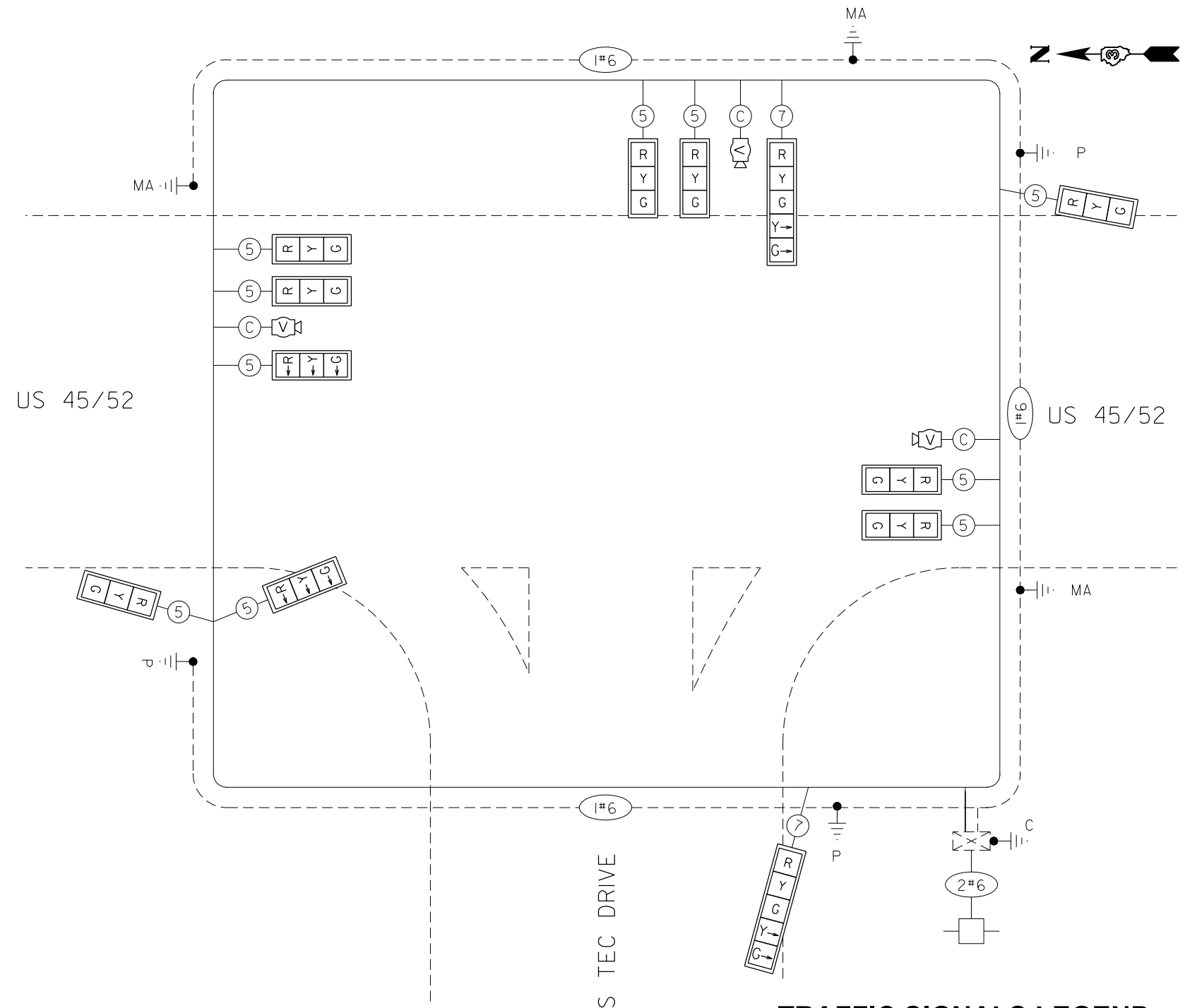
STREET NAME: US 45 - 52



LEGEND

- ← * — VEHICULAR MOVEMENT
- *NUMBER REFERS TO ASSOCIATED PHASE

NOT TO SCALE



PROPOSED CABLE PLAN
NOT TO SCALE

TRAFFIC SIGNALS LEGEND

- * DENOTES NUMBER OF PROPOSED CONDUCTORS
- C DENOTES PROPOSED VIDEO DETECTION CABLE
- [X] EXISTING CONTROLLER AND CABINET
- [V] WIDE AREA VIDEO DETECTION SYSTEM COMPLETE
- PROPOSED CABLE

MODEL: Default
FILE NAME: c:\pwwork\jvw\zagar\k106808366R42-Cable Plan.dgn

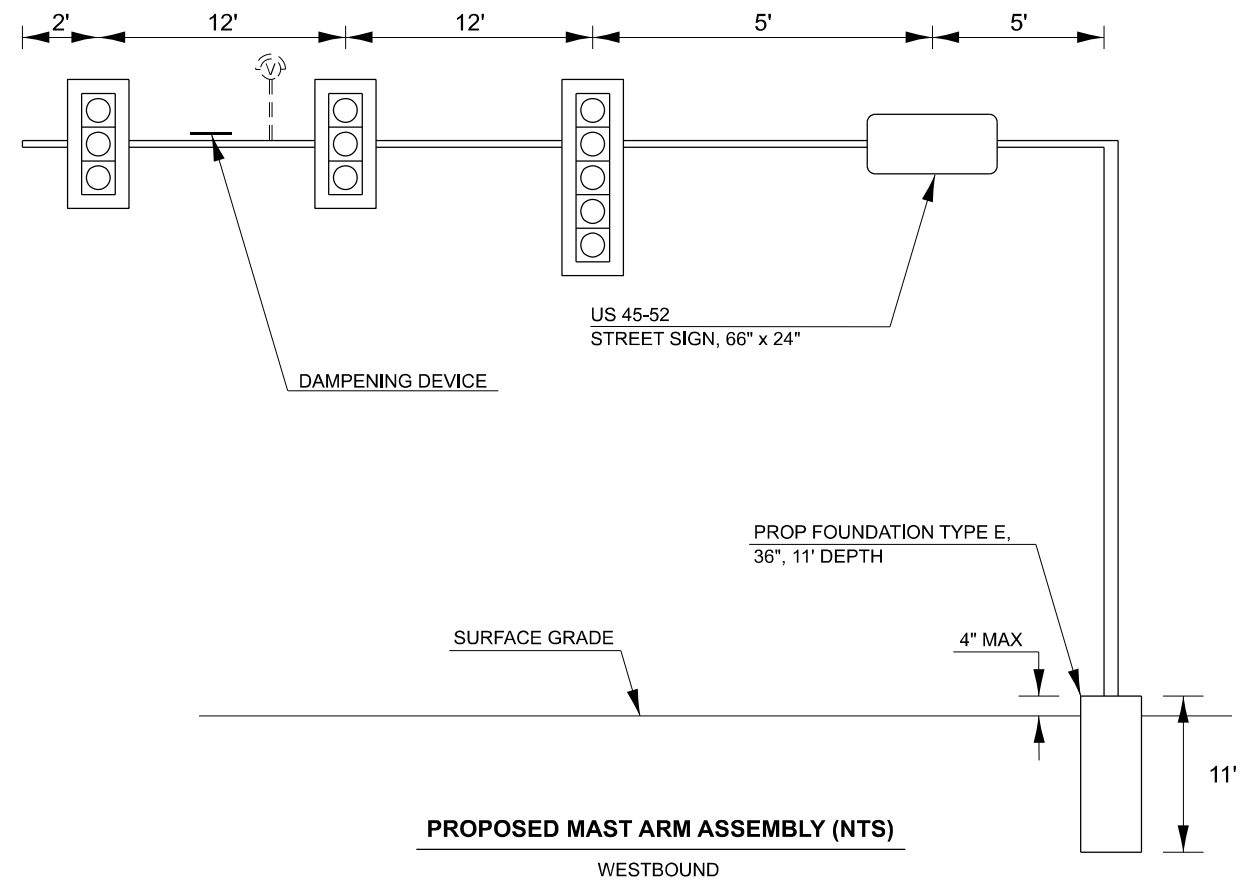
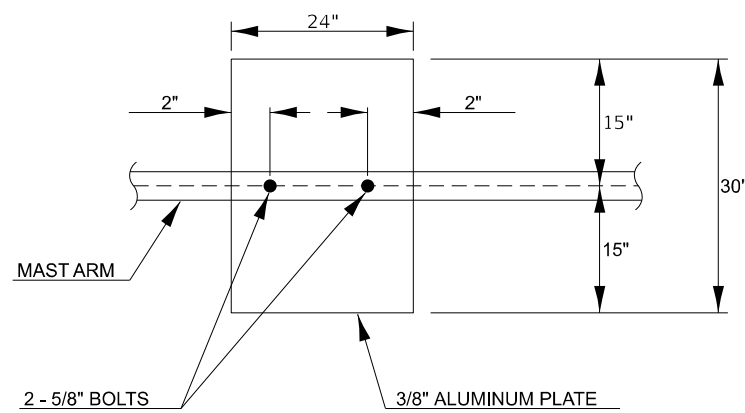
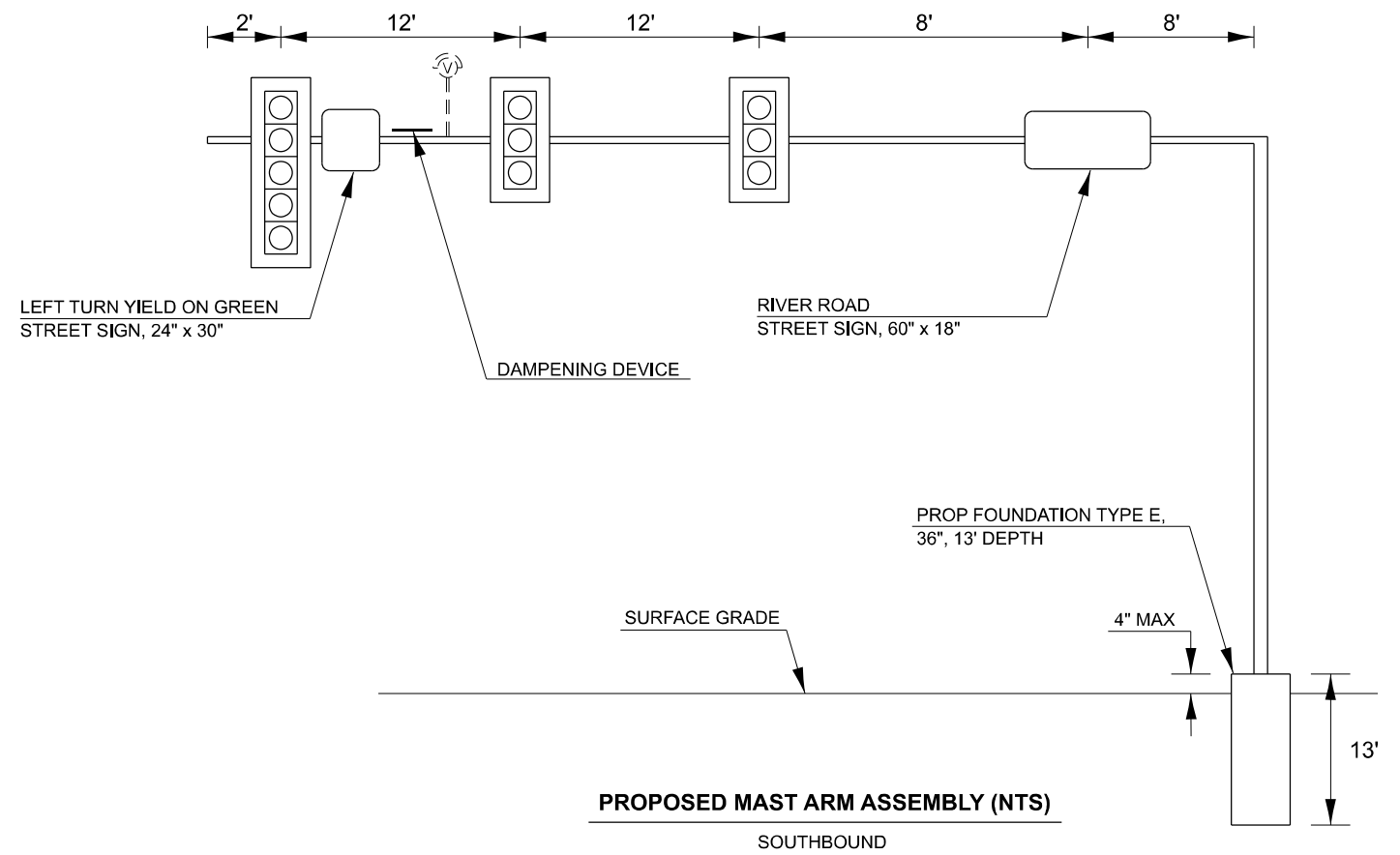
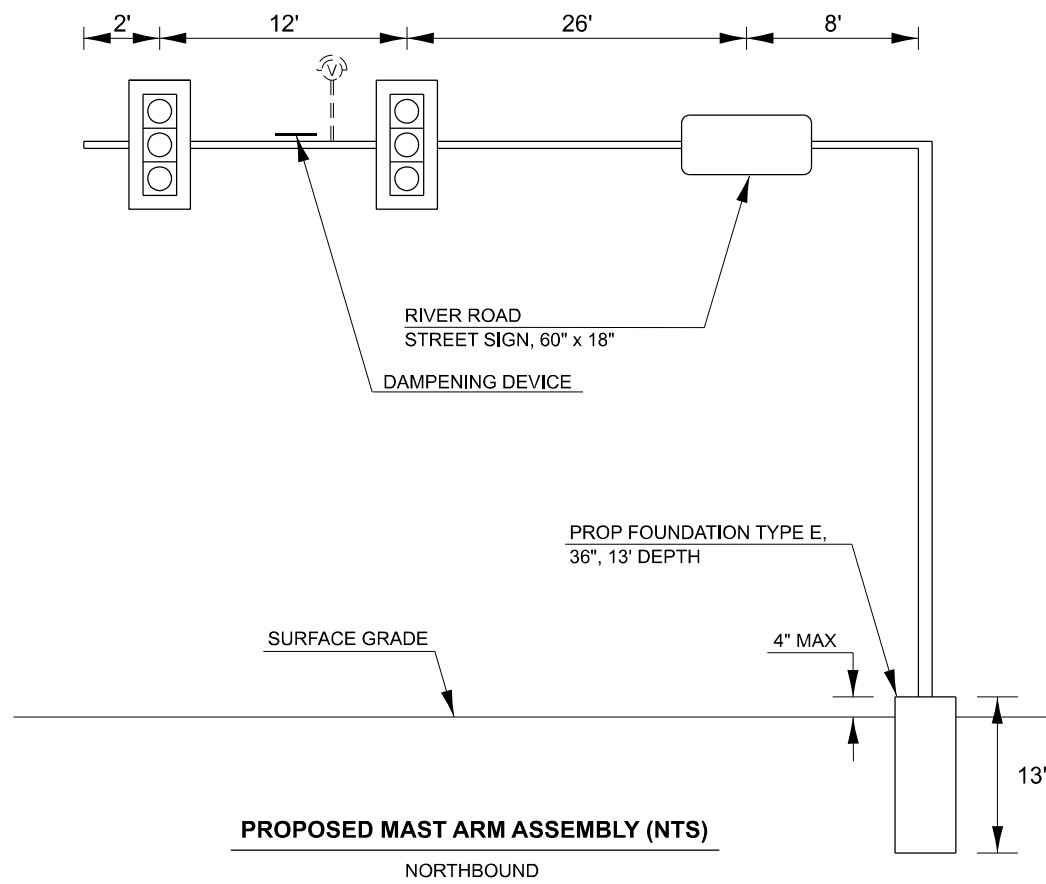
| | | |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/5/2025 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CABLE PLAN AND PHASE DESIGNATION DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------|----------|------------------|-----------|
| 840 | (139)TS-1 | KANKAKEE | 22 | 16 |
| CONTRACT NO. 66R42 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |



NOTE:
CAMERA LOCATION ON MAST ARMS TO BE DETERMINED BY EQUIPMENT MANUFACTURER.

MODEL: Default
FILE NAME: c:\pwworking\kylia.lauterbach\k1068983\66R42-Details.dgn

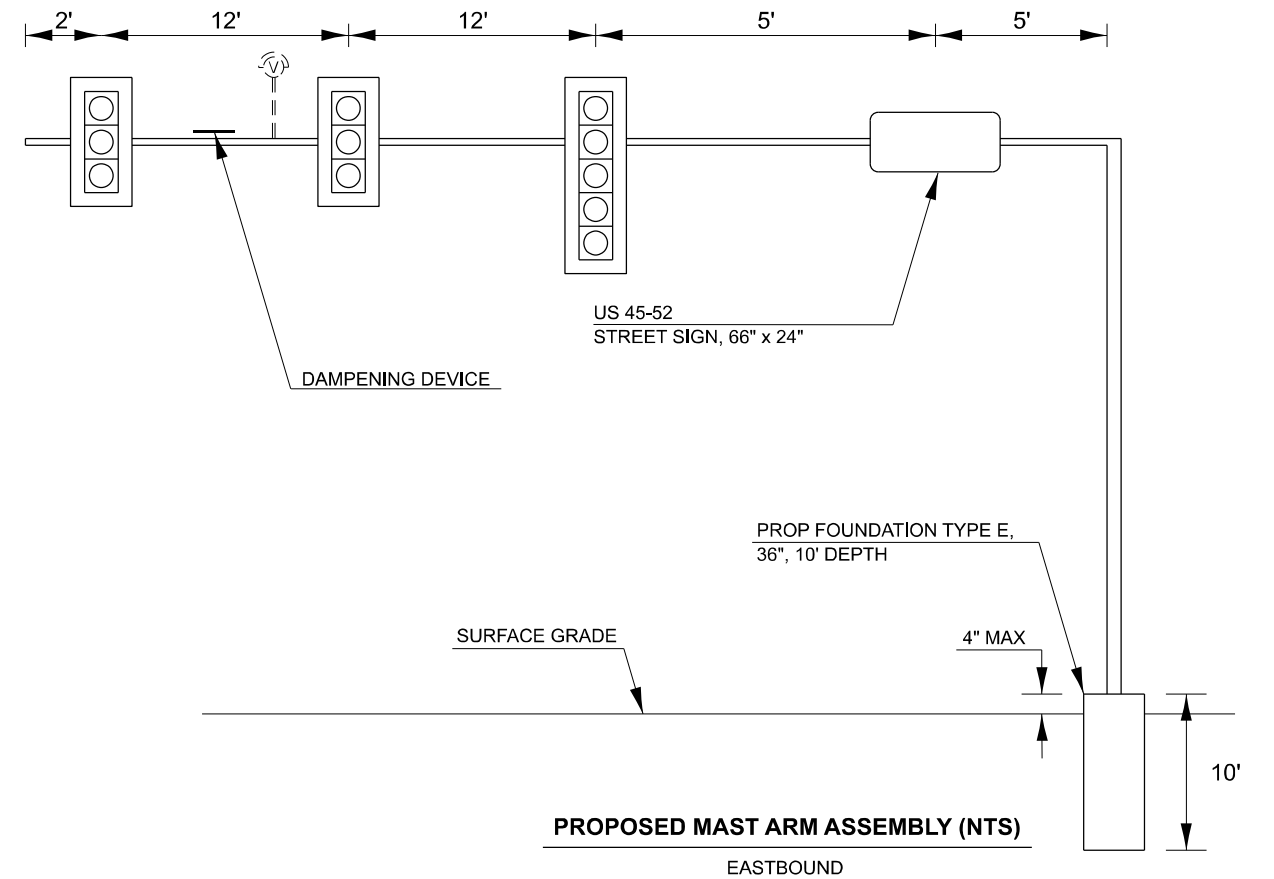
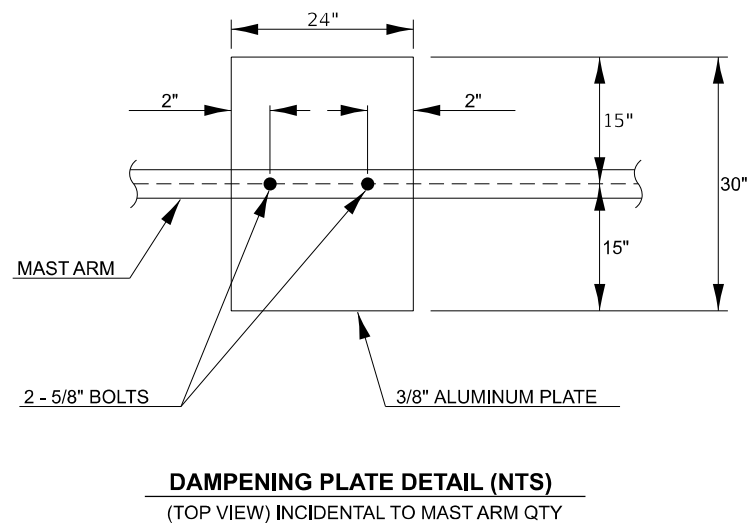
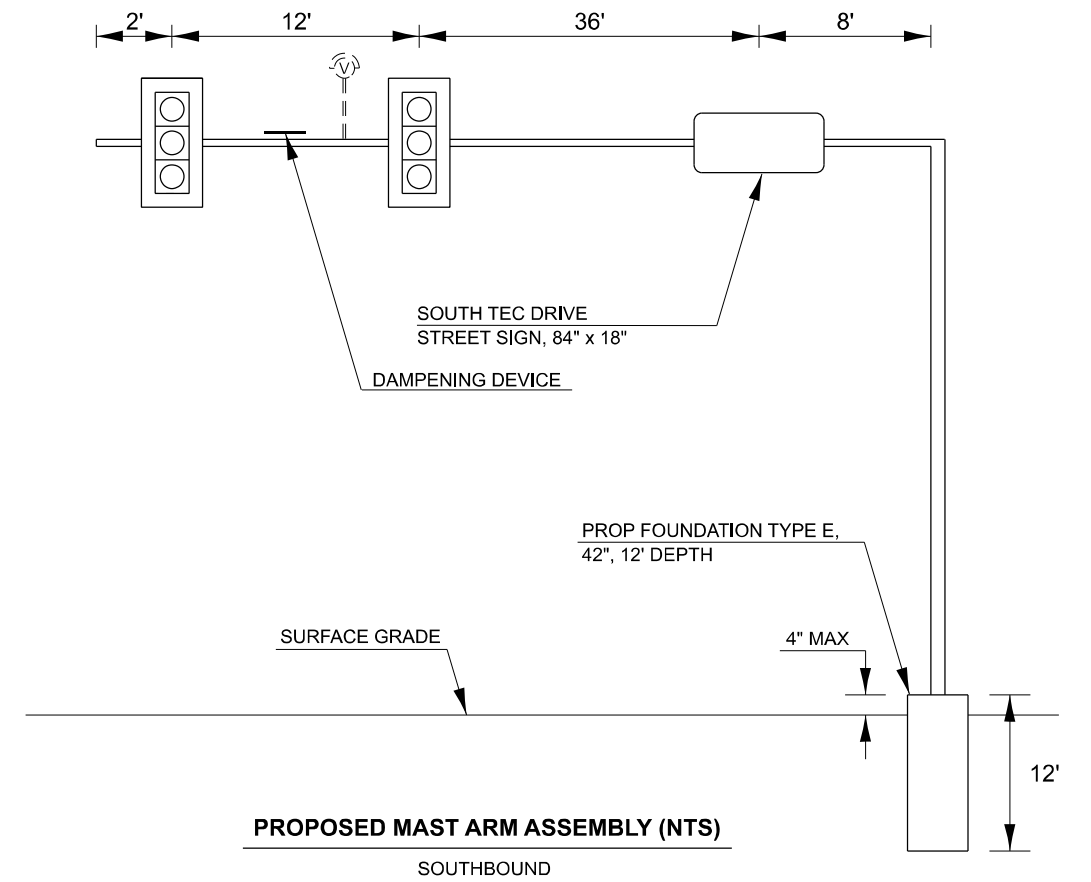
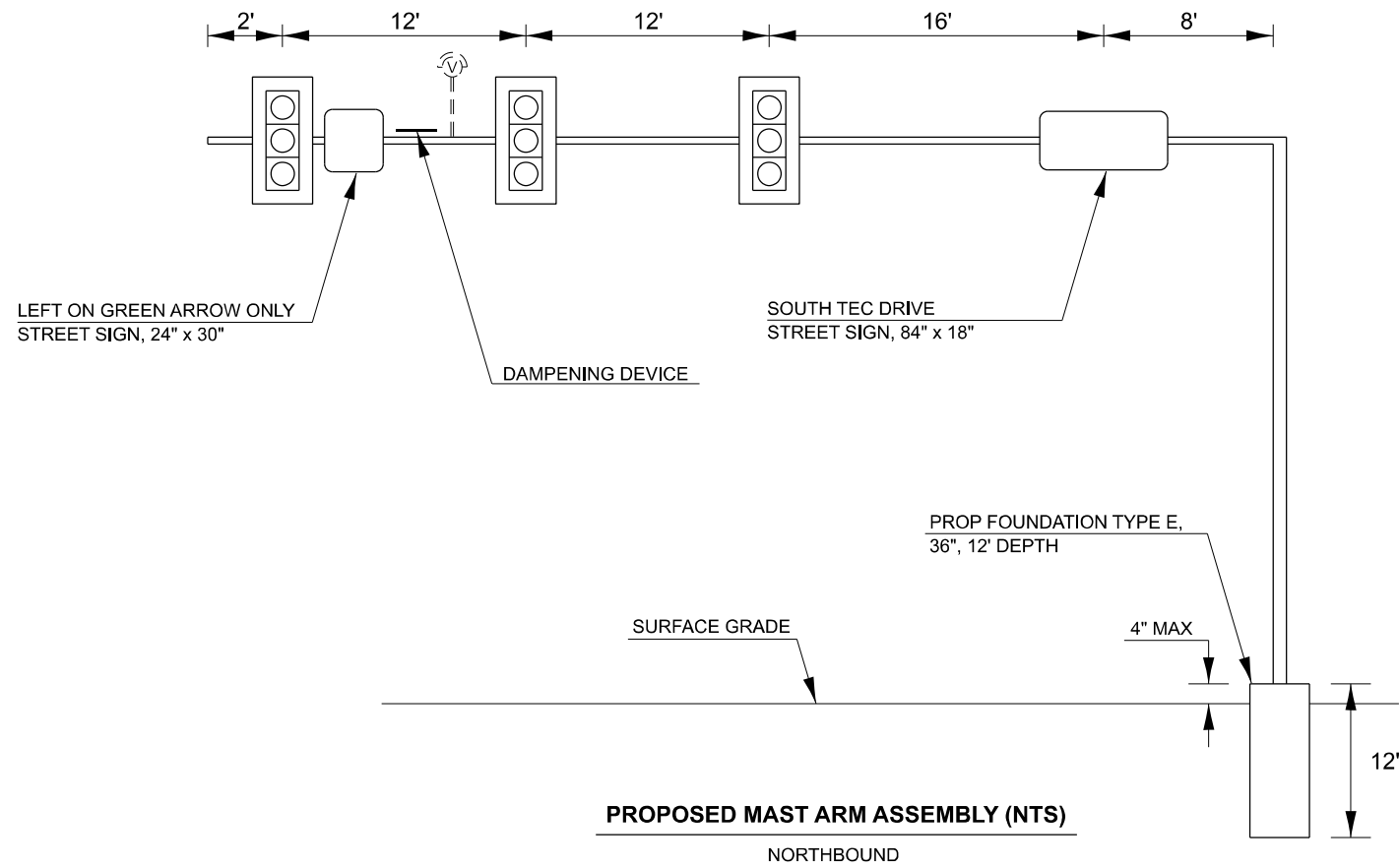
| | | |
|------------------------------|------------|-----------|
| USER NAME = kylie.lauterbach | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 6/24/2025 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM DETAILS
US 45 / 52 & RIVER ROAD INTERSECTION**

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 840 | (139)TS-1 | KANKAKEE | 22 | 17 |
| CONTRACT NO. 66R42 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



NOTE:
CAMERA LOCATION ON MAST ARMS TO BE DETERMINED BY EQUIPMENT MANUFACTURER.

MODEL: Default
FILE NAME: c:\pwwork\lauerbach\k1068683\66R42-Details.dgn

| | | |
|-----------------------------|------------|-----------|
| USER NAME = kylie.lauerbach | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 6/24/2025 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM DETAILS
US 45 / 52 & SOUTH TEC DRIVE INTERSECTION

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 840 | (139)TS-1 | KANKAKEE | 22 | 18 |
| CONTRACT NO. 66R42 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



SOIL BORING LOG

ROUTE CH 40 (River Road) DESCRIPTION US 45/52 & River Road (CH 40) in Kankakee LOGGED BY Larry Myers

SECTION 139RS-2&I LOCATION NE 1/4, SEC. 18, TWP. 30N, RNG. 13W, 2nd PM,
Latitude 41.09195, Longitude -87.86883

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

| STRUCT. NO. Station | D E P T H (ft) | B L O W S (/6") | U C S Qu (tsf) | M O I S T (%) | Surface Water Elev. _____ ft Stream Bed Elev. _____ ft |
|---|-----------------------------------|------------------------------------|----------------------------|----------------------------------|---|
| BORING NO. B-1 (NW Quad) Station _____ Offset _____ Ground Surface Elev. 618.77 ft | | | | | Groundwater Elev.: First Encounter 606.3 ft ▼ Upon Completion 606.8 ft ▼ After _____ Hrs. _____ ft |
| Augered Black and Brown Silty Clay Loam Fill | 616.27 | | | | |
| Stiff Brown Silty Clay Loam Fill with Gravel Pieces | 615.27 | 3 | | | |
| Rust Red Loam with Heavy Dolomite Gravels | 614.27 | 4 | 2.0 | 17 | |
| | | 5 | P | | |
| Hard Brown and Gray Silty Clay Loam Till | 611.77 | 4 | | | |
| | | 5 | 4.0 | 21 | |
| | | 6 | P | | |
| Very Stiff Gray Silty Clay, Clay, Silt, Silty Loam, Sand and Gravel Interbedded | 609.27 | 3 | | | |
| | | 4 | 3.5 | 24 | |
| | | 5 | P | | |
| Very Stiff to Hard Gray Silty Loam Till with Some Silt Layers | 602.27 | 4 | | | |
| | | 5 | 3.5 | 13 | |
| | | 6 | P | | |
| | | 8 | >4.5 | 12 | |
| | | 10 | P | | |
| | | 8 | | | |
| | | 10 | >4.5 | 10 | |
| | | 12 | P | | |
| Gray Weathered and Reworked Limestone | 600.77 | 50 | | | |
| Assumed Limestone Surface | | 100/1* | | 12 | |
| End of Boring | | | | | |

SOIL BORING US 45 / 52 & RIVER ROAD (CH 40) IN KANKAKEE GPJ_IL_DOT.GDT 9/22/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: c:\pwworkspace\zagar\k1068083\66R42-Details.dgn

| | | | | | | | | | | | | |
|--------------------------|------------|-----------|---|---|--|--|--|---------------------------|-------------------|-----------------|-----------------|--------------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SOIL BORING LOG US 45 / 52 & RIVER ROAD INTERSECTION | | | | F.A.P. RTE. 840 | SECTION (139)TS-1 | COUNTY KANKAKEE | TOTAL SHEETS 22 | SHEET NO. 19 |
| | DRAWN - | REVISED - | | | | | | CONTRACT NO. 66R42 | | | | |
| | CHECKED - | REVISED - | | | | | | ILLINOIS FED. AID PROJECT | | | | |
| PLOT DATE = 3/10/2025 | DATE - | REVISED - | | | | | | SCALE: | SHEET OF SHEETS | STA. TO STA. | | |



SOIL BORING LOG

ROUTE CH 40 (River Road) DESCRIPTION US 45/52 & River Road (CH 40) in Kankakee LOGGED BY Larry Myers

SECTION 139RS-2&I LOCATION NW 1/4, SEC. 17, TWP. 30N, RNG. 13W, 2nd PM,
Latitude 41.09187, Longitude -87.86914

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

| STRUCT. NO. Station | D E P T H (ft) | B L O W S (/6") | U C S Qu (tsf) | M O I S T (%) | Surface Water Elev. _____ ft Stream Bed Elev. _____ ft |
|---|-----------------------------------|------------------------------------|--------------------------------|----------------------------------|---|
| BORING NO. B-2 (NE Quad) Station _____ Offset _____ Ground Surface Elev. 619.20 ft | | | | | Groundwater Elev.: First Encounter 604.7 ft ▼ Upon Completion 606.2 ft ▼ After _____ Hrs. _____ ft |
| Augered Shoulder Stone, Black and Brown Silty Clay Loam Fill | 616.70 | | | | |
| Very Stiff Brown and Gray Silty Clay Loam/Silty Loam Till | | 2 | | | |
| | | 3 | 2.5 | 25 | |
| | | 4 | P | | |
| | | 4 | | | |
| Stiff to Hard Gray Silty Clay Loam/Silty Loam Till with Silt Layers | | 5 | 3.9 | 17 | |
| | | 6 | S | | |
| | | 2 | | | |
| | | 3 | 1.5 | 15 | |
| Large Limestone Gravel Pieces after 12' | | 3 | | | |
| | | 6 | 3.0 | 14 | |
| | | 10 | | | |
| | | 12 | >4.5 | 9 | |
| | 13 | P | | | |
| Gray Weathered and Reworked Limestone | 603.70 | 100/5" | | | |
| Assumed Rock Surface (Limestone) | | | | 13 | |
| End of Boring | | | | | |

SOIL BORING US 45 52 & RIVER ROAD (CH 40) IN KANKAKEE GPJ_IL_DOT.GDT 9/22/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: c:\pwworking\jzagarkid106808366R42-Details.dgn

| | | | | | | | | | | | | |
|--------------------------|------------|-----------|---|---|--|--|--|---------------------------|-------------------|-----------------|-----------------|--------------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SOIL BORING LOG US 45 / 52 & RIVER ROAD INTERSECTION | | | | F.A.P. RTE. 840 | SECTION (139)TS-1 | COUNTY KANKAKEE | TOTAL SHEETS 22 | SHEET NO. 20 |
| | DRAWN - | REVISED - | | | | | | CONTRACT NO. 66R42 | | | | |
| | CHECKED - | REVISED - | | | | | | | | | | |
| PLOT DATE = 3/10/2025 | DATE - | REVISED - | | | | | | ILLINOIS FED. AID PROJECT | | | | |



SOIL BORING LOG

ROUTE South Tech Rd. (TR 137) DESCRIPTION US 45/52 & South Tech Road (TR 137) in Kankakee LOGGED BY Larry Myers

SECTION 139RS-2&I LOCATION NW 1/4, SEC. 17, TWP. 30, RNG. 13W, 2nd PM.

Latitude 41.08591, Longitude -87.86915

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

| STRUCT. NO. Station | D E P T H (ft) | B L O W S (/6") | U C S Qu (tsf) | M O I S T (%) | Surface Water Elev. _____ ft Stream Bed Elev. _____ ft |
|--|-----------------------------------|------------------------------------|--------------------------------|----------------------------------|---|
| BORING NO. <u>B-2 (NE Quad.)</u> Station _____ Offset _____ Ground Surface Elev. <u>622.07</u> ft | | | | | Groundwater Elev.: First Encounter <u>Dry</u> ft Upon Completion <u>Dry</u> ft After _____ Hrs. _____ ft |
| Augered Shoulder Stone, Black Silty Clay Loam Fill with Gravel Layers | 619.57 | | | | |
| Very Stiff Rust Orange Silty Loam/Loam with Dolomite Gravel and Silt Pockets | 617.07 | 2 6 8 | 2.5 P | 14 | |
| Buff Weathered and Reworked Dolomite | 615.07 | 10 18 61 | | 9 | |
| Assumed Rock Surface - Auger Refusal at 7' End of Boring | | | | | |
| | -10 | | | | |
| | -15 | | | | |
| | -20 | | | | |

SOIL BORING US 45 52 & SOUTH TECH ROAD (TR 137) IN KANKAKEE.GPJ IL_DOT.GDT 9/22/23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: c:\pwworking\jzagarkid106808366R42-Details.dgn

| | | | | | | | | | | | |
|--------------------------|------------|-----------|---|--|---------------------------|-------------------|-----------------|--------------------|--------------|--|--|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SOIL BORING LOG US 45 / 52 & SOUTH TEC DRIVE INTERSECTION | F.A.P. RTE. 840 | SECTION (139)TS-1 | COUNTY KANKAKEE | TOTAL SHEETS 22 | SHEET NO. 22 | | |
| PLOT DATE = 3/10/2025 | DRAWN - | REVISED - | | | SCALE: | SHEET OF SHEETS | STA. TO STA. | CONTRACT NO. 66R42 | | | |
| | CHECKED - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | | |
| | DATE - | REVISED - | | | | | | | | | |