06-13-2025 LETTING ITEM 064

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

INDEX OF SHEETS

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

0 100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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

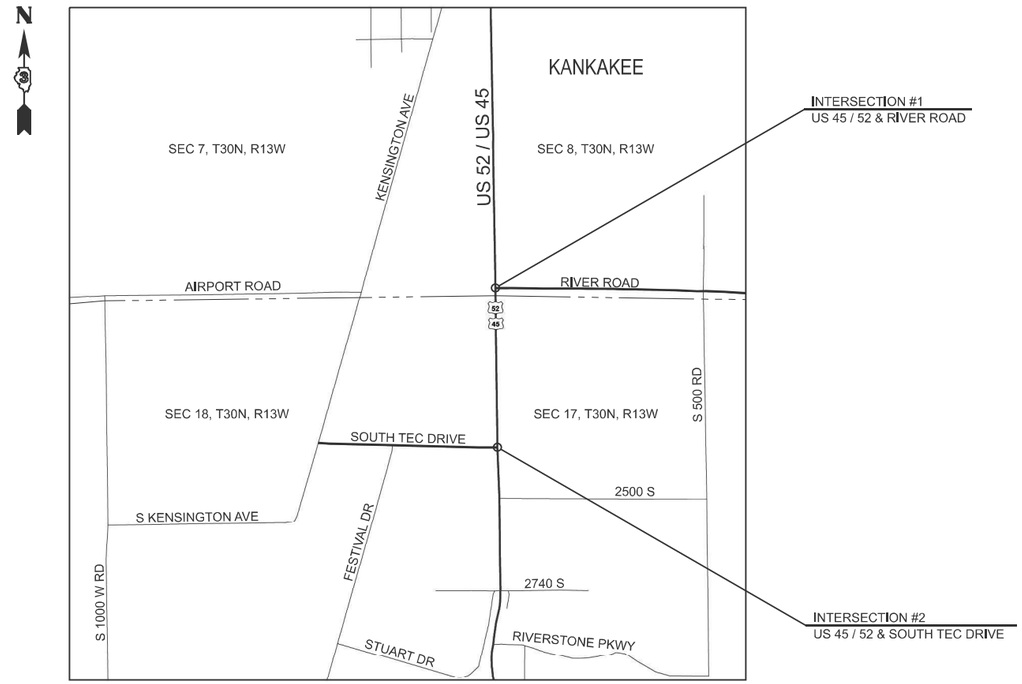
CONTRACT NO. 66R42

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

D-93-063-25

LOCATION OF SECTION INDICATED THUS: -

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, 20 25
Trisha Thompson
for REGIONAL ENGINEER

May 9, 20 25
ENGINEER OF DESIGN AND ENVIRONMENT

May 9, 20 25
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 4/7/25

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 UTILITIY 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 ¼" 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:\pw_work\pwidot\lauterbachkd1\d0830836\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		

				CONSTRUCTION CODE	
				100% STATE	100% STATE
				US 45/52 & RIVER RD	US 45/52 & S. TEC DR
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	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	15	7.5	7.5
* 72000200	SIGN PANEL - TYPE 2	SQ FT	67	35	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

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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			

REV. 5/12/25 REV. 4/7/25

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 100% STATE US 45/52 & RIVER RD 0021 URBAN	CONSTRUCTION CODE 100% STATE US 45/52 & S. TEC DR 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

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	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	4
		CONTRACT NO. 66R42		
	ILLINOIS	FED. AID PROJECT		

REV. 4/7/25

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 100% STATE US 45/52 & RIVER RD 0021 URBAN	CONSTRUCTION CODE 100% STATE US 45/52 & S. TEC DR 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

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	5
		CONTRACT NO. 66R42		
	ILLINOIS FED. AID PROJECT			

REV. 4/7/25

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

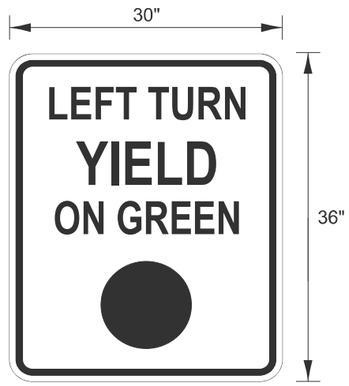
SCHEDULES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(139)TS-1	KANKAKEE	22	6
		CONTRACT NO. 66R42		
	ILLINOIS	FED. AID PROJECT		

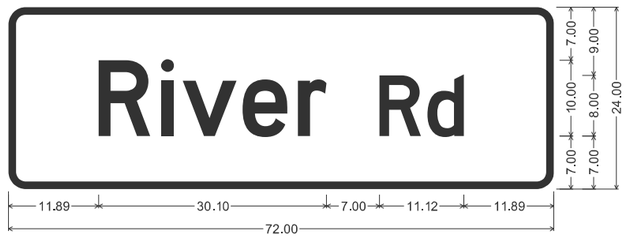
R10-5
ONE SIGN 7.5 SQ FT EACH
TYPE AP SHEETING REQUIRED

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

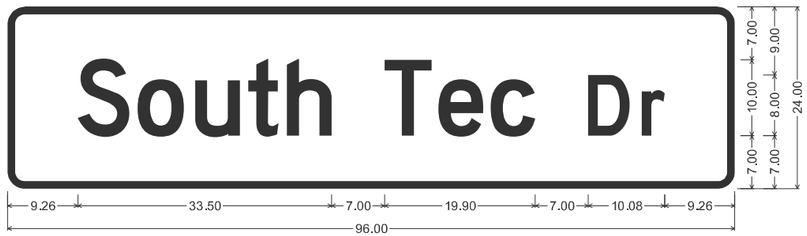


R10-12
ONE SIGN 7.5 SQ FT EACH
TYPE AP SHEETING REQUIRED

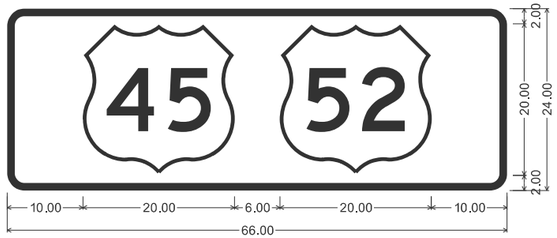
LOCATED 6"- 12" TO THE RIGHT
OF THE MAST ARM MOUNTED
LEFT SIGNAL HEAD



2.25" Radius, 1.00" Border, White on Green;
"River Rd", D 2K;



2.25" Radius, 1.00" Border, White on Green;
"South Tec Dr", D 2K;



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

SIGN SCHEDULE

LOCATION / TYPE	SIZE	QUANTITY	SIGN PANEL TYPE 1	SIGN PANEL TYPE 2
	INCHES	EACH	SQ YD	SQ YD
RIVER ROAD				
NORTHBOUND MAST ARM				
RIVER ROAD STREET NAME	24" x 72"	1		12
SOUTHBOUND MAST ARM				
RIVER ROAD STREET NAME	24" x 72"	1		12
LEFT TURN YEILD ON GREEN	30" x 36"	1	7.5	
WESTBOUND MAST ARM				
US 45-52 STREET NAME	24" x 66"	1		11
SUB TOTAL		**4**	**7.5**	**35**
S TEC DRIVE				
NORTHBOUND MAST ARM				
SOUTH TEC DRIVE STREET NAME	24" x 96"	1		16
LEFT ON GREEN ARROW ONLY	30" x 36"	1	7.5	
SOUTHBOUND MAST ARM				
SOUTH TEC DRIVE STREET NAME	24" x 96"	1		16
EASTBOUND MAST ARM				
US 45-52 STREET NAME	24" x 66"	1		
SUB TOTAL		**4**	**7.5**	**32**
TOTAL		**8**	**15**	**67**

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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.

0 20 40
SCALE IN FEET

MATCHLINE STA 73+00

MATCHLINE STA 79+00

RIVER ROAD

US 45-52

71 72 73 74 75+00 76 77 78

REM ELEC CABLE IN CONDUIT
CONDUIT TO REMAIN IN PLACE

EXIST DOUBLE HANDHOLE
TO REMAIN

EXIST CONTROLLER CABINET
TO REMAIN

REM ELEC CABLE
IN CONDUIT
CONDUIT TO REMAIN
IN PLACE

EXIST ROW

REM MAST ARM AND
EXIST CONC FOUNDATION

MEDIAN REMOVAL
EXIST CC&G TO REMAIN

REM TRAFFIC SIGNAL POST
AND EXIST CONC FOUNDATION

EXISTING HANDHOLES
TO REMAIN (TYP)

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:\pw_work\pwidot\zagarjk\d1068083668R42-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

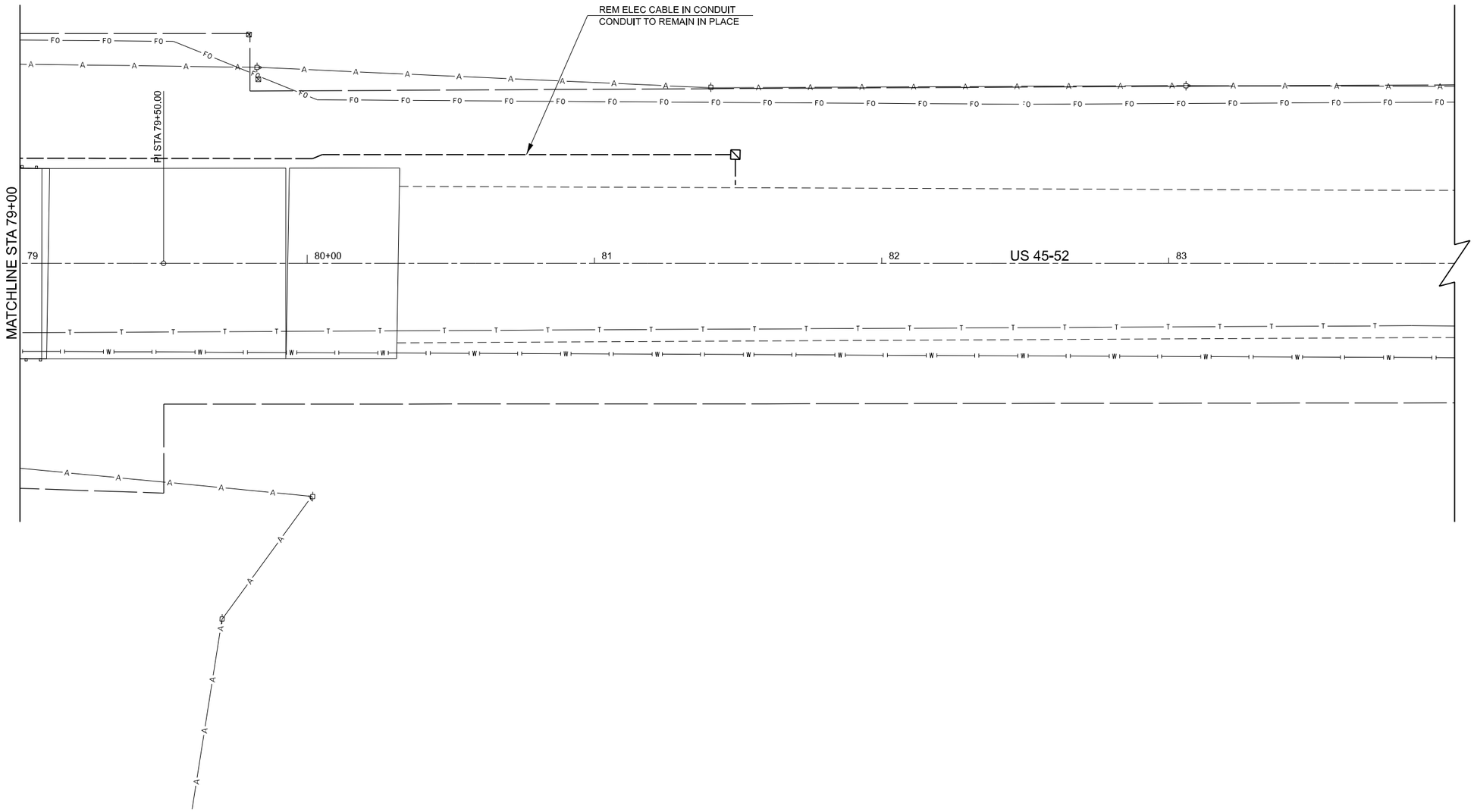
SCALE: | SHEET OF SHEETS | STA. | TO STA.

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.
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.

0 20 40
SCALE IN FEET



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:\pw_work\pwidot\zagarlkd1068083\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

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:

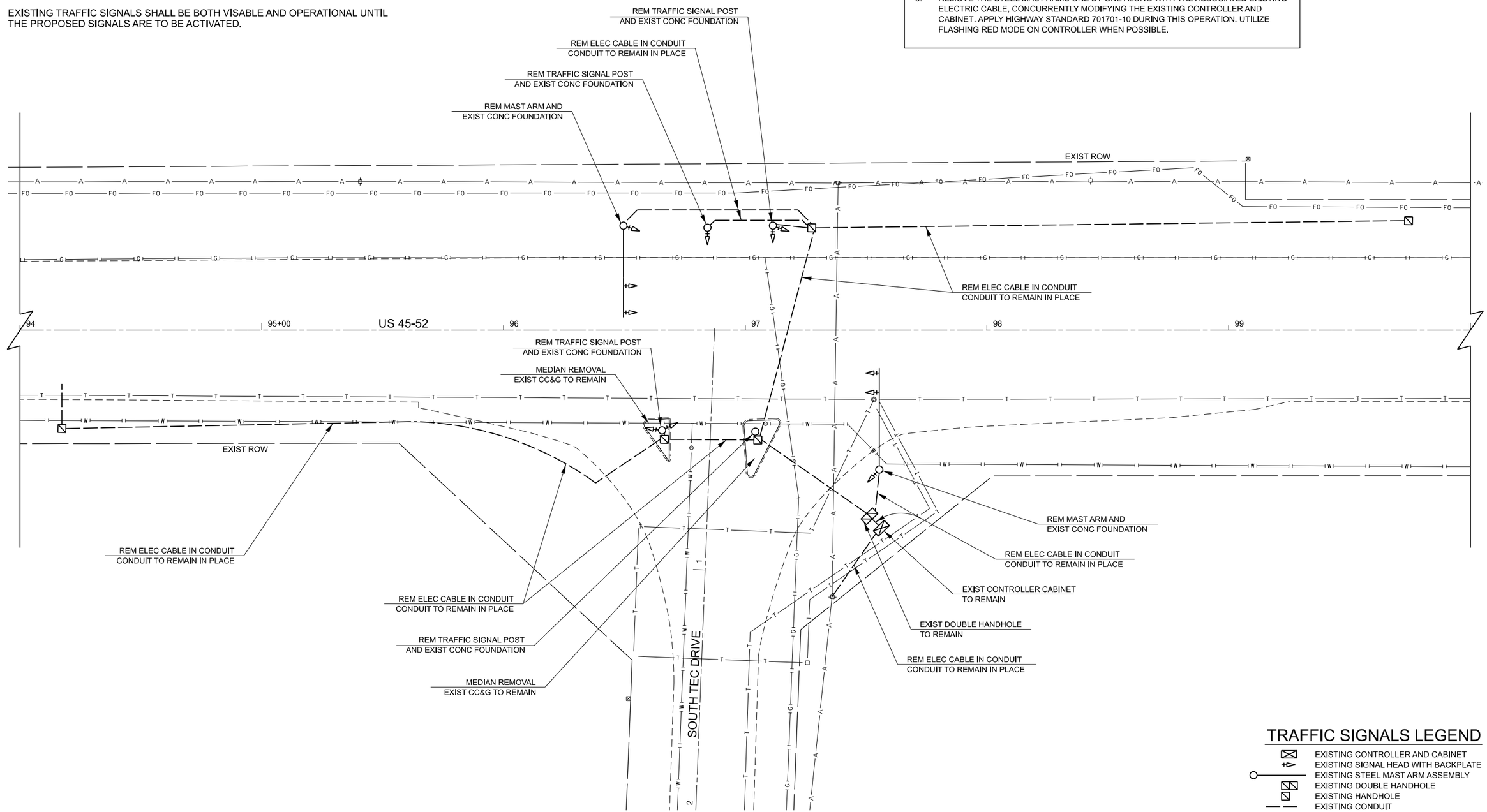
REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
- MAST ARM ASSEMBLY FOR NORTHBOUND TRAFFIC (1 EACH)
- MAST ARM ASSEMBLY FOR SOUTHBOUND TRAFFIC (1 EACH)
- TRAFFIC SIGNAL POSTS (4 EACH)
- TRAFFIC SIGNAL HEAD FOR NORTHBOUND TRAFFIC (5 EACH)
- TRAFFIC SIGNAL 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

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.

0 20 40
SCALE IN FEET



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:\pw_work\pwidot\zagarjk\d1068083\66R42-Traffic Signal Removal&Installation.dgn

USER NAME = Joseph.Zagar	DESIGNED -	REVISED -	
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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.

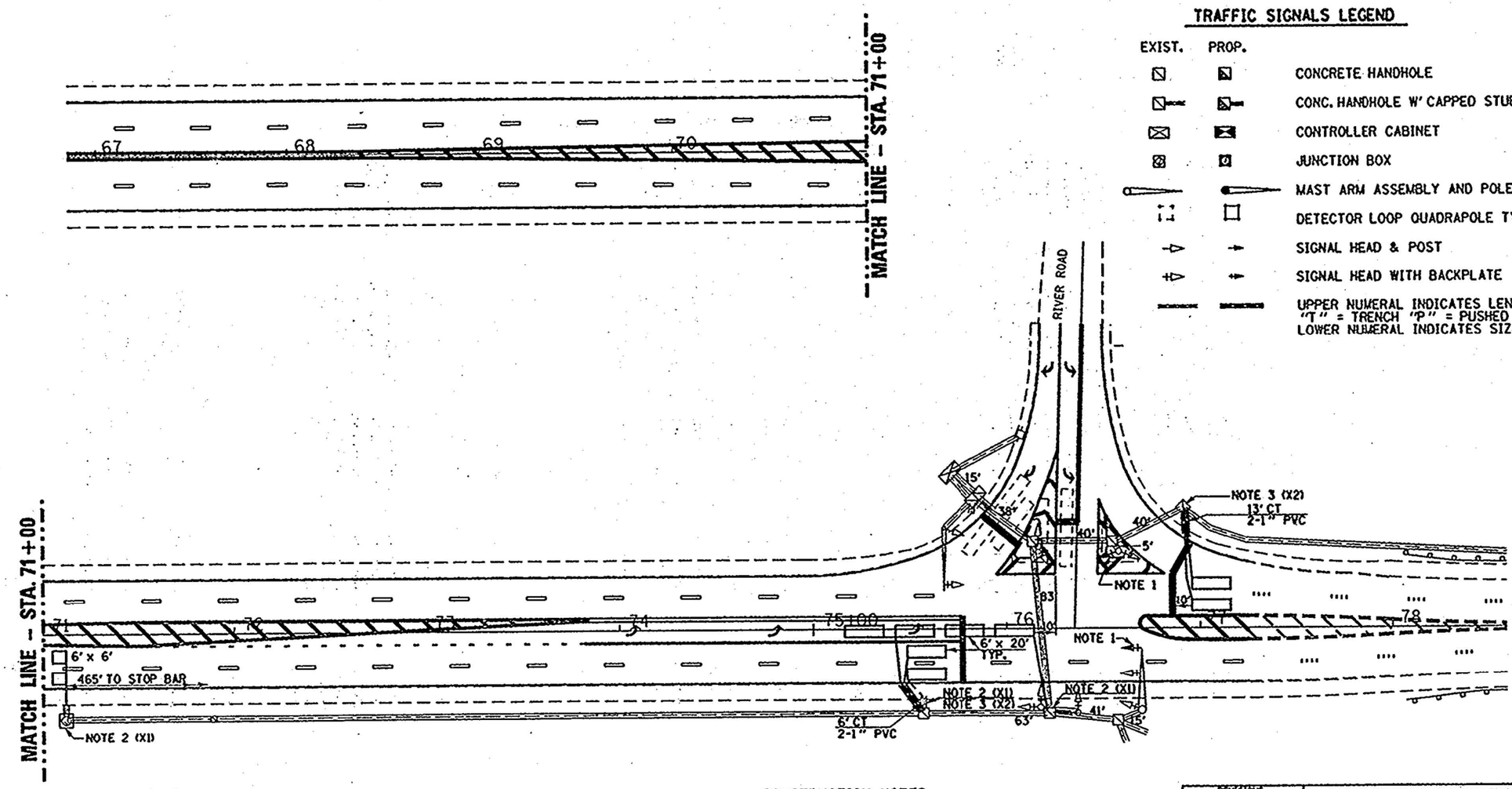
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(139)TS-1	KANKAKEE	22	10
		CONTRACT NO. 66R42		
	ILLINOIS FED. AID PROJECT			

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



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 NOTE	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNALS

FOR INFORMATION ONLY

AUG 24, 1999
\EP04699\ SHEETS.DGN

MODEL: Removal Sheets
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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		

SCHEDULE OF QUANTITIES

CODE	TOTAL	UNIT	ITEM
T40001	1	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, POST MOUNTED
T40002	1	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
T40003	2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
T40011	1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED
T40017	2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
T40173	1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
T40301	11	EACH	TRAFFIC SIGNAL BACKPLATE
T40403	3	EACH	STRAIGHT RAY LOUVRE, TYPE A FOR 12-INCH LENS
T40605	1	EACH	TRAFFIC SIGNAL POST, 10 FT.
T40609	1	EACH	TRAFFIC SIGNAL POST, 14 FT.
T40611	2	EACH	TRAFFIC SIGNAL POST, 16 FT.
T40853	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
T40855	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.
T41132	1	EACH	FULL ACTUATED CONTROLLER, 3 PHASES, VOLUME DENSITY FOR ONE PHASE, DIGITAL TIMING, IN TYPE III CABINET
T41601	2	EACH	MAGNETIC DETECTOR AMPLIFIER
T41603	1	EACH	INDUCTION LOOP DETECTOR AMPLIFIER, DIGITAL DESIGN
T41607	3	EACH	INDUCTION LOOP DETECTOR AMPLIFIER WITH CALL DELAY, DIGITAL DESIGN
T41701	3	EACH	MAGNETIC DETECTOR
T41801	647	LIN FT	DETECTOR LOOP
T42003	586	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH 1¼"
T42004	121	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH 1½"
T42005	76	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH 2"
T42007	32	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH 3"
T42009	54	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH 4"
T42013	16	LIN FT	GALVANIZED STEEL CONDUIT, PUSHED 1¼"
T42015	34	LIN FT	GALVANIZED STEEL CONDUIT, PUSHED 2"
T42017	58	LIN FT	GALVANIZED STEEL CONDUIT, PUSHED 3"
T42124	52	LIN FT	ELECTRIC CABLE IN CONDUIT NO. 6 2/C
T42132	863	LIN FT	ELECTRIC CABLE IN CONDUIT NO. 12 2/C
T42134	1583	LIN FT	ELECTRIC CABLE IN CONDUIT NO. 12 5/C
T42135	256	LIN FT	ELECTRIC CABLE IN CONDUIT NO. 12 7/C
T42184	310	LIN FT	ELECTRIC CABLE IN CONDUIT NO. 14 2/C SHIELDED
T42605	1	EACH	SERVICE INSTALLATION, TYPE C
T42701	12	LIN FT	CONCRETE FOUNDATION, TYPE A
T42702	3½	LIN FT	CONCRETE FOUNDATION, TYPE D
T42704	30	LIN FT	CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER
T42804	5	EACH	CONCRETE HANDHOLE
T42806	1	EACH	CONCRETE DOUBLE HANDHOLE
T43001	869	LIN FT	TRENCH AND BACKFILL
T43101	36	LIN FT	RACEWAY FOR MAGNETIC DETECTOR, TYPE I
T43102	35	LIN FT	RACEWAY FOR MAGNETIC DETECTOR, TYPE II

GENERAL NOTES

1 – 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.

2 – 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.

3 – 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.

4 – ELECTRIC CABLE THAT IS FURNISHED BY THE CONTRACTOR SHALL BE PROTECTED BY POLYETHYLENE INSULATION WITH A POLY VINYLCHLORIDE JACKET, UNLESS OTHERWISE SPECIFIED.

5 – ALL 12" AMBER SIGNAL SECTIONS SHALL BE FURNISHED WITH A PHOTO-ELECTRIC CONTROLLED DIMMER UNIT AS INCIDENTAL TO THE SIGNAL SECTION.

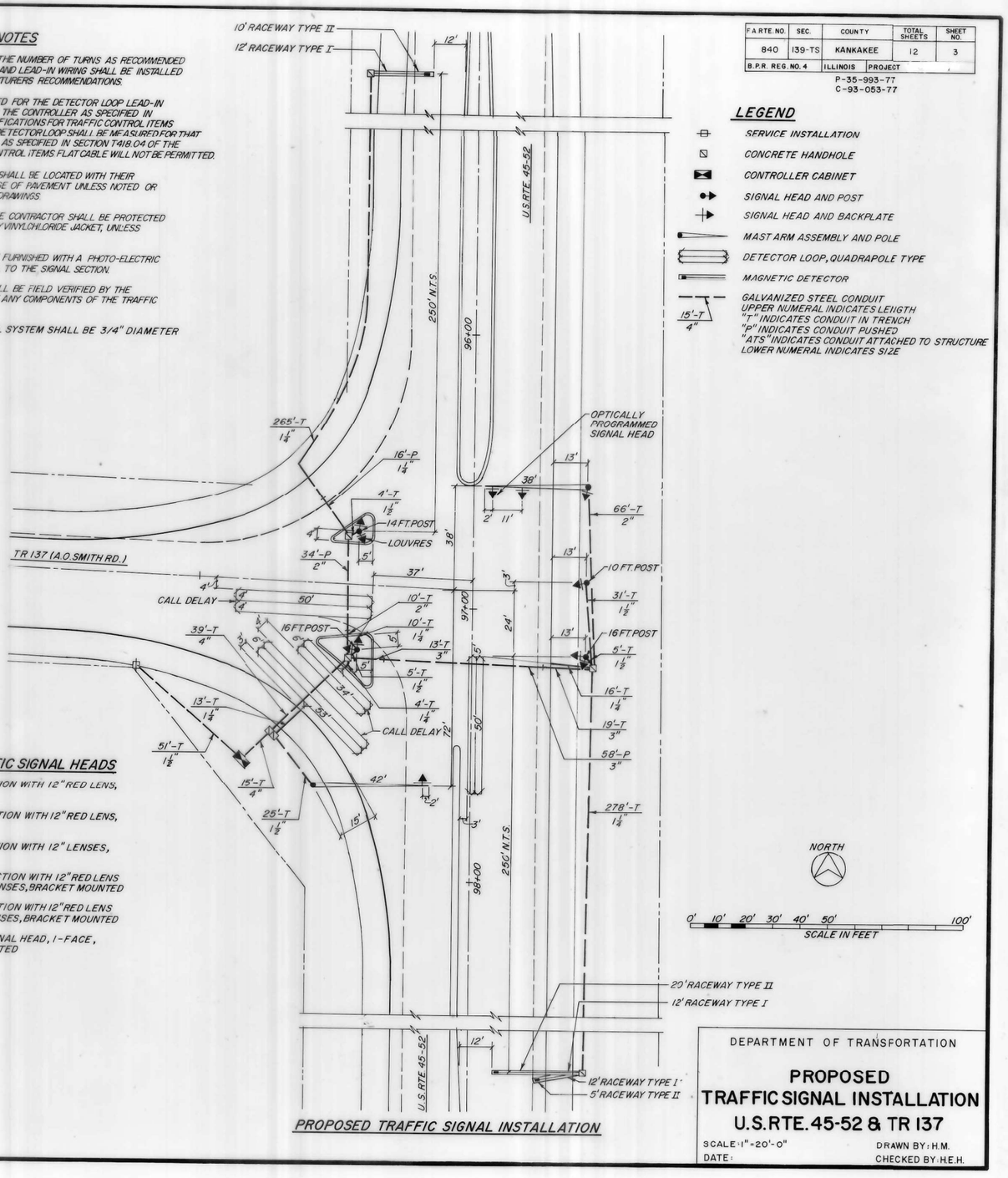
6 – THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM.

7 – 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

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

FOR INFORMATION ONLY



PROPOSED TRAFFIC SIGNAL INSTALLATION

F.A RTE. 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

15'-T 4"

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: H.E.H.

MODEL: Removal Sheets
FILE NAME: c:\pw_work\pwidoltzagarjk\d1068083\66R42-Traffic Signal Removal&Installation.dgn

USER NAME = Joseph.Zagar	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 3/14/2025	DATE -	REVISED -	

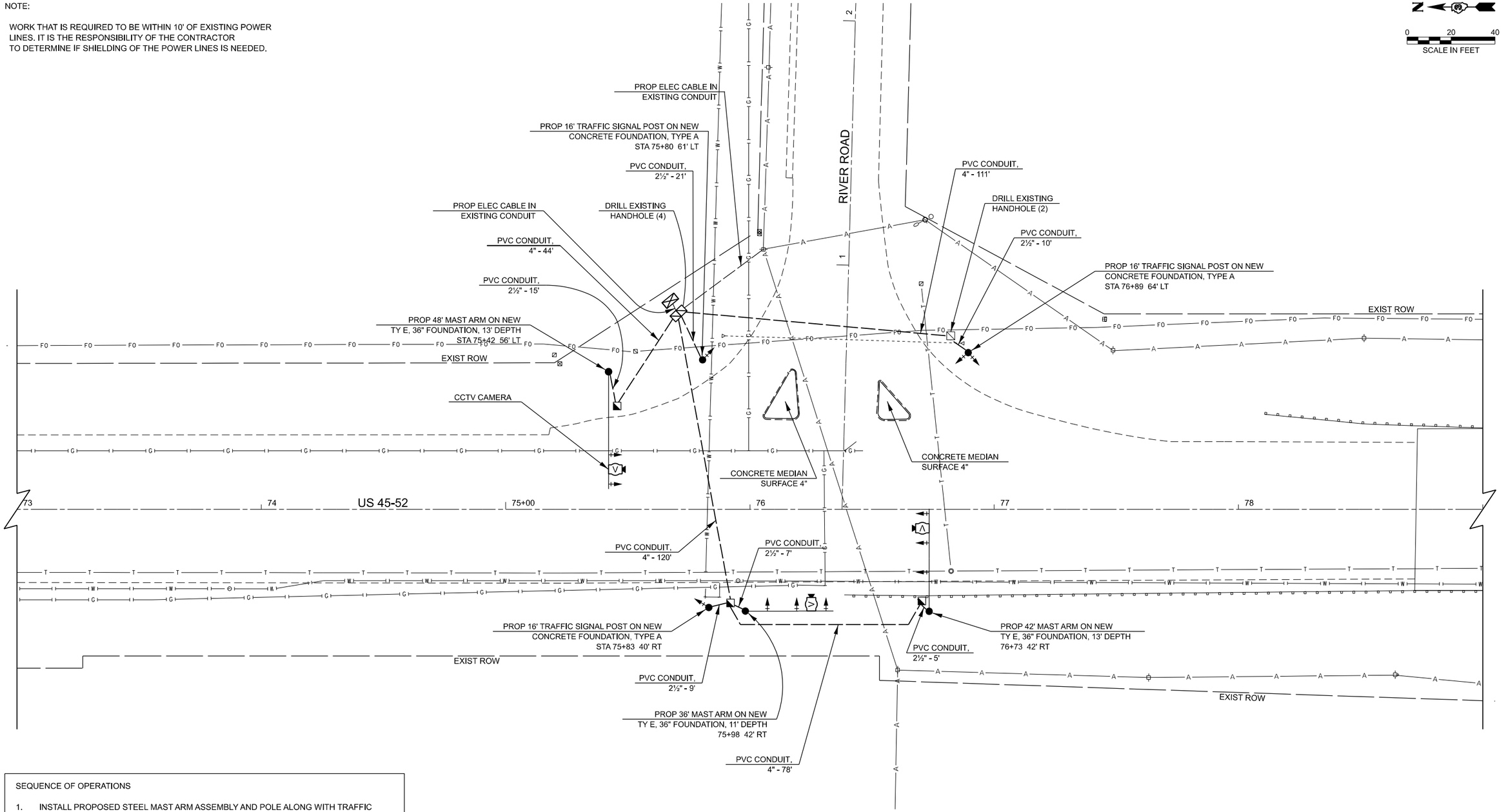
EXISTING TRAFFIC SIGNAL PLAN
US 45 / 52 & SOUTH TEC DRIVE INTERSECTION

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.
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 DOUBLE HANDHOLE
- EXISTING HANDHOLE
- EXISTING CONDUIT
- PROPOSED HANDHOLE
- PROPOSED SIGNAL HEAD WITH BACKPLATE
- PROPOSED STEEL MAST ARM ASSEMBLY
- PROPOSED CONDUIT
- PROPOSED VIDEO DETECTION SYSTEM

MODEL: Proposed
FILE NAME: c:\pw_work\pwidot\zagark\d1068083\66R42-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.

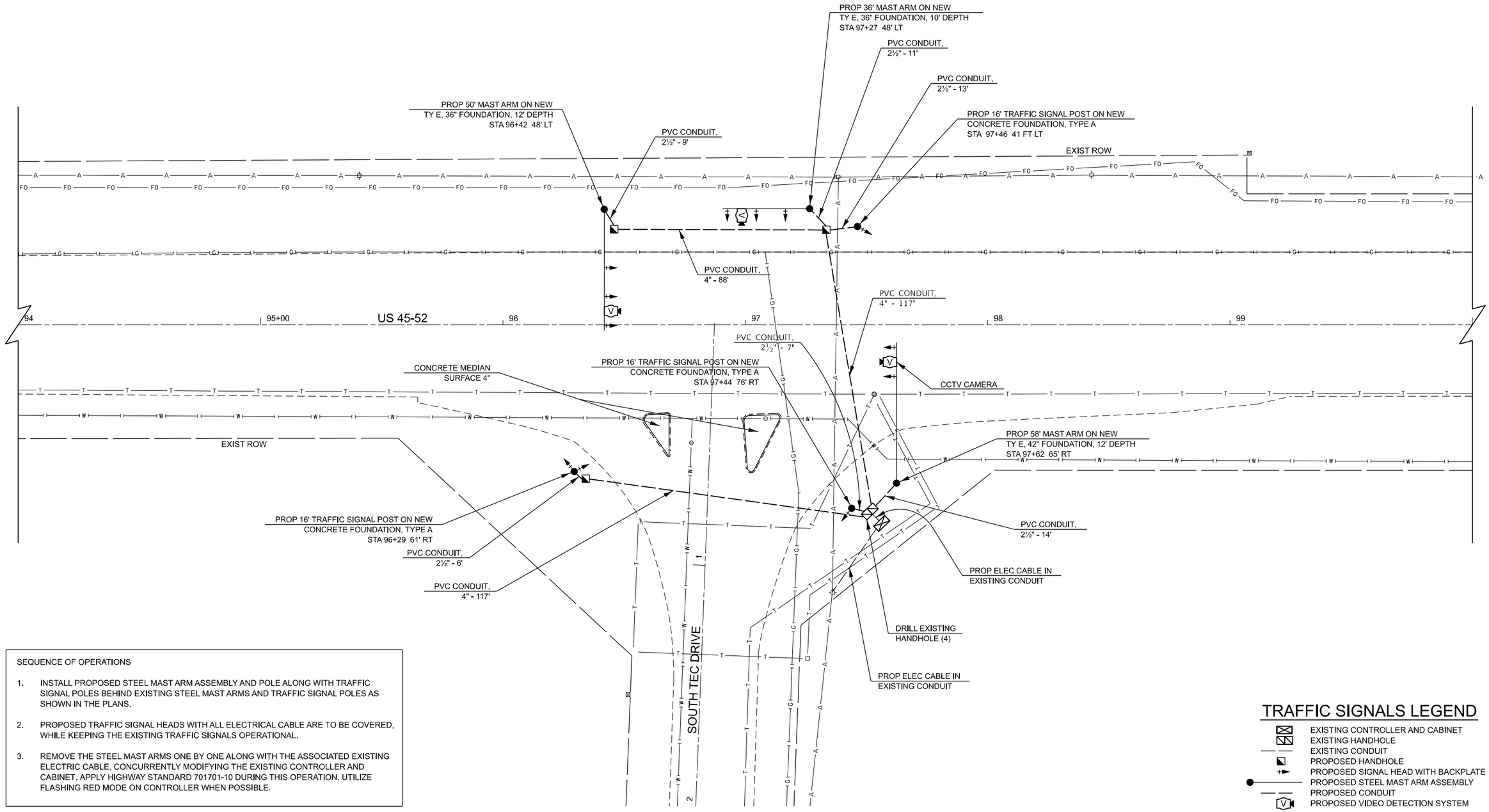
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(139)TS-1	KANKAKEE	22	13
		CONTRACT NO. 66R42		
	ILLINOIS FED. AID PROJECT			

NOTE:

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.

N

0 20 40
SCALE IN FEET



SEQUENCE OF OPERATIONS

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TRAFFIC SIGNALS LEGEND

- EXISTING CONTROLLER AND CABINET
- EXISTING HANDHOLE
- EXISTING CONDUIT
- PROPOSED HANDHOLE
- PROPOSED SIGNAL HEAD WITH BACKPLATE
- PROPOSED STEEL MAST ARM ASSEMBLY
- PROPOSED CONDUIT
- PROPOSED VIDEO DETECTION SYSTEM

MODEL: Proposed
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/18/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

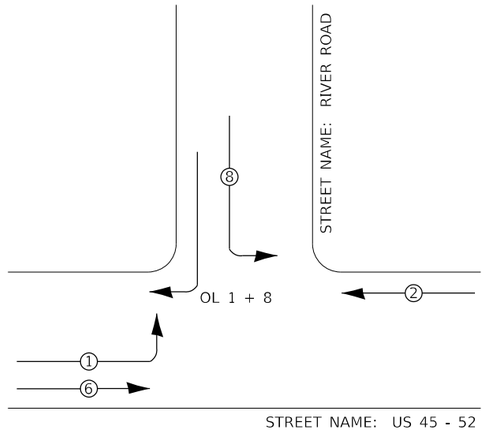
PROPOSED TRAFFIC SIGNAL PLAN
US 45 / 52 & SOUTH TEC DRIVE INTERSECTION

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 AND PROPOSED PHASE DESIGNATION DIAGRAM

NAME OF INTERSECTION: US 45 - 52 AND RIVER ROAD



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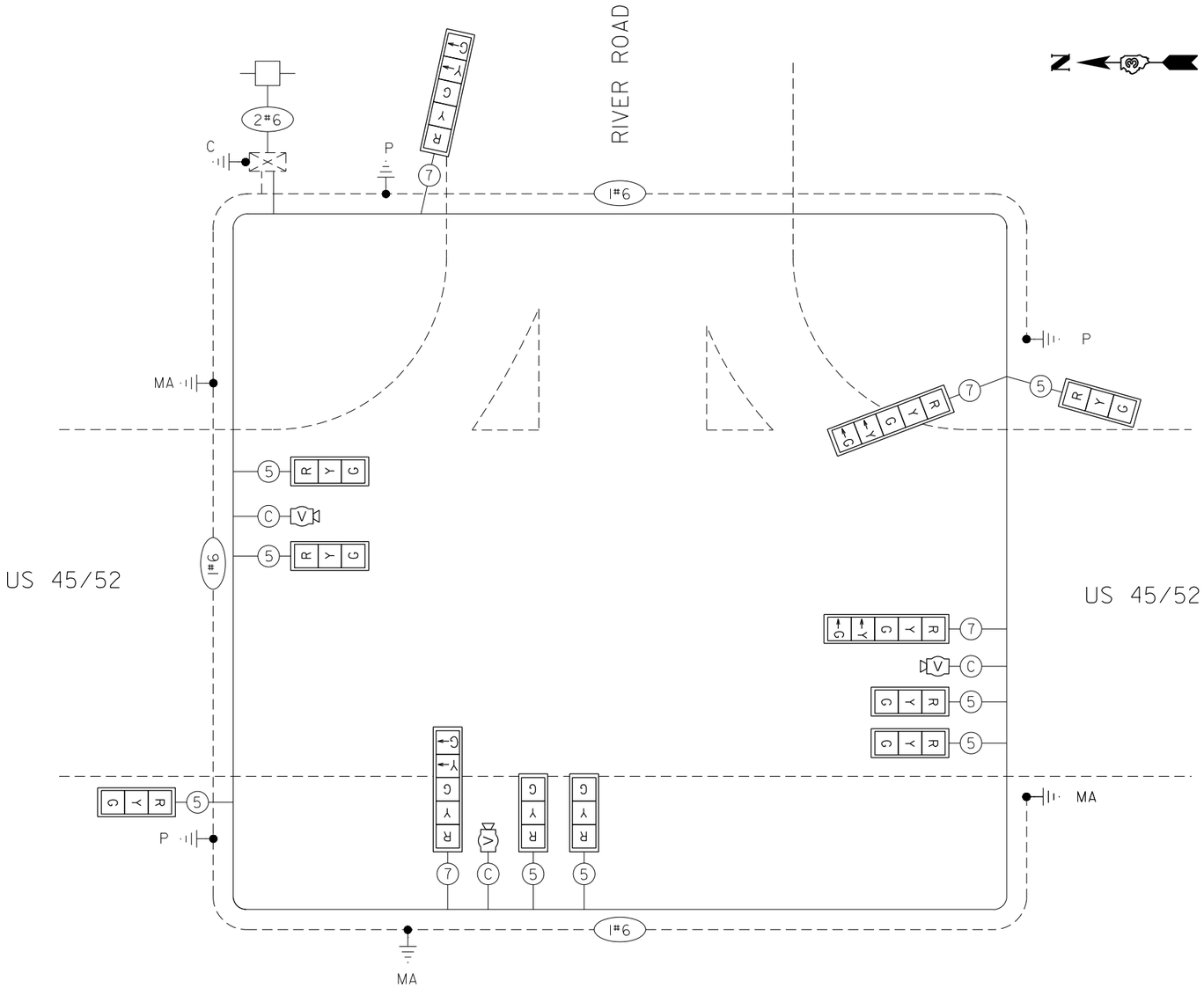
LEGEND

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
- EXISTING CONTROLLER AND CABINET
- (V) WIDE AREA VIDEO DETECTION SYSTEM COMPLETE
- PROPOSED CABLE

MODEL: Default
FILE NAME: c:\pw_work\pwidot\zagarjk\d1068083668R42-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

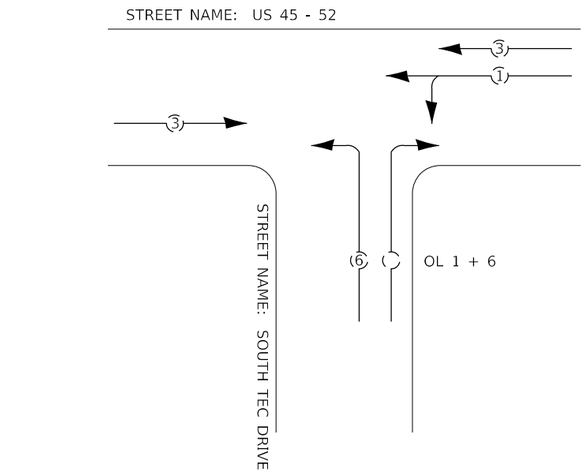
CABLE PLAN AND PHASE DESIGNATION DIAGRAM

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	(139)TS-1	KANKAKEE	22	15
		CONTRACT NO. 66R42		
	ILLINOIS FED. AID PROJECT			

EXISTING PHASE DESIGNATION DIAGRAM

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



LEGEND

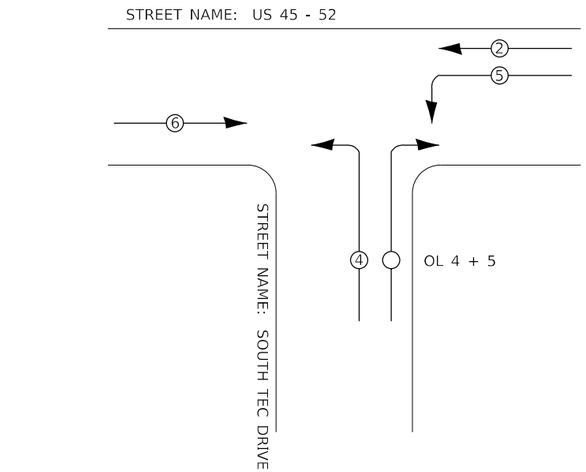
VEHICULAR MOVEMENT

*NUMBER REFERS TO ASSOCIATED PHASE

NOT TO SCALE

PROPOSED PHASE DESIGNATION DIAGRAM

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

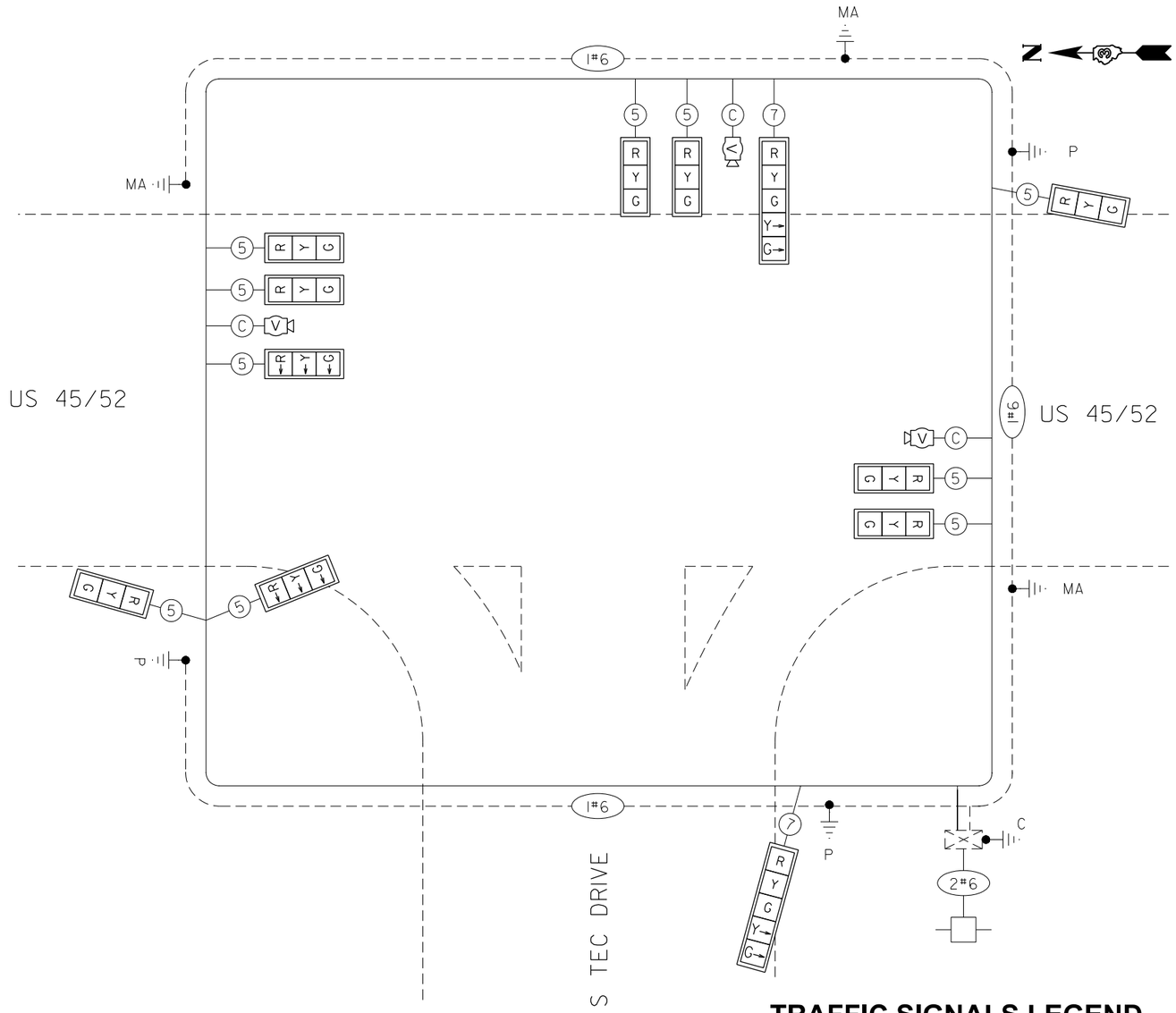


LEGEND

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
- EXISTING CONTROLLER AND CABINET
- (V) WIDE AREA VIDEO DETECTION SYSTEM COMPLETE
- PROPOSED CABLE

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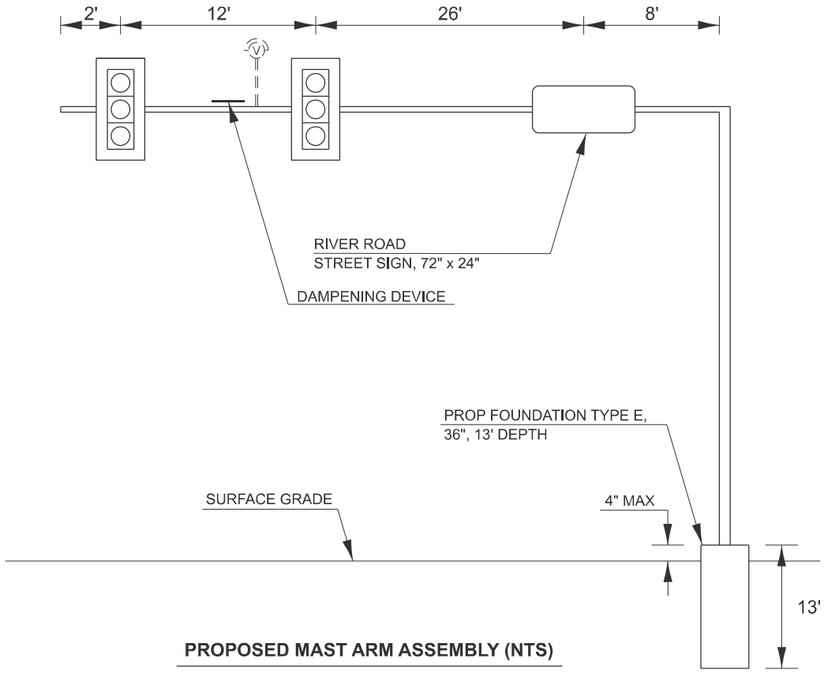
PLOT DATE = 3/5/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM

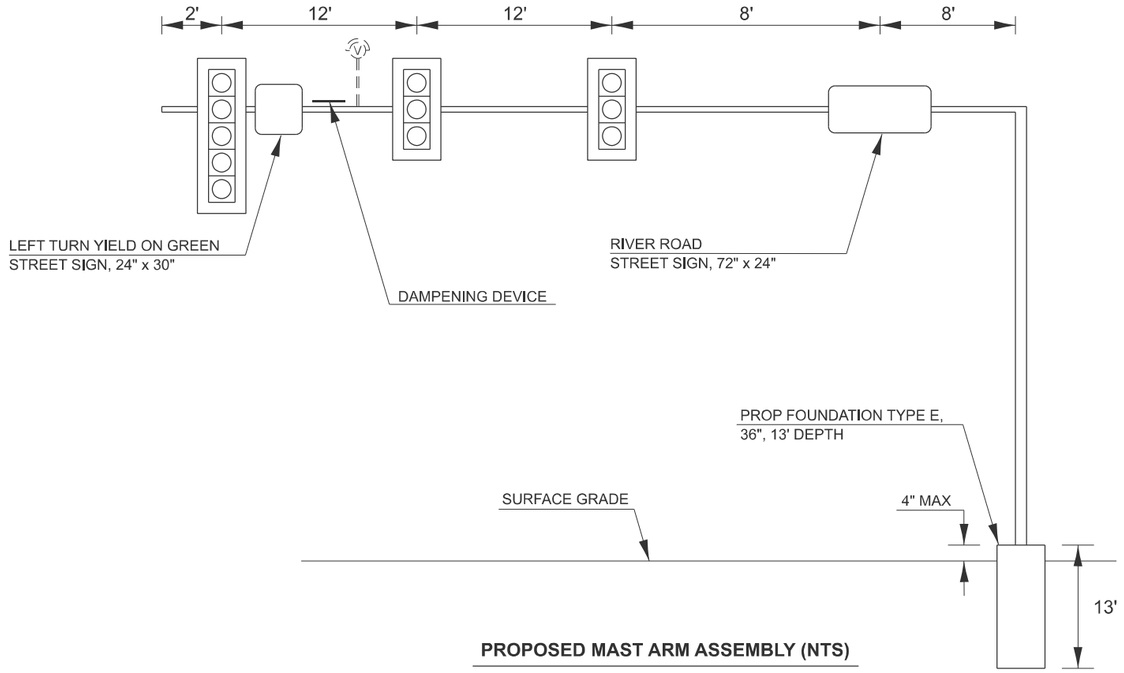
SCALE: | SHEET OF SHEETS | STA. | TO STA.

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



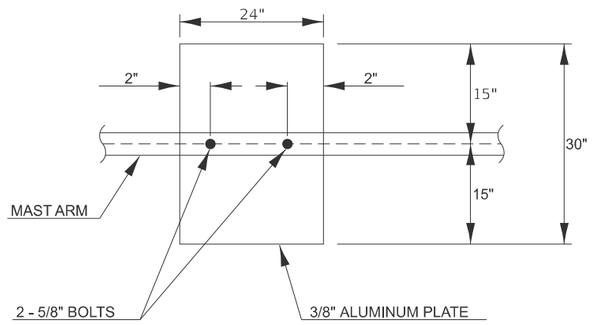
PROPOSED MAST ARM ASSEMBLY (NTS)

NORTHBOUND



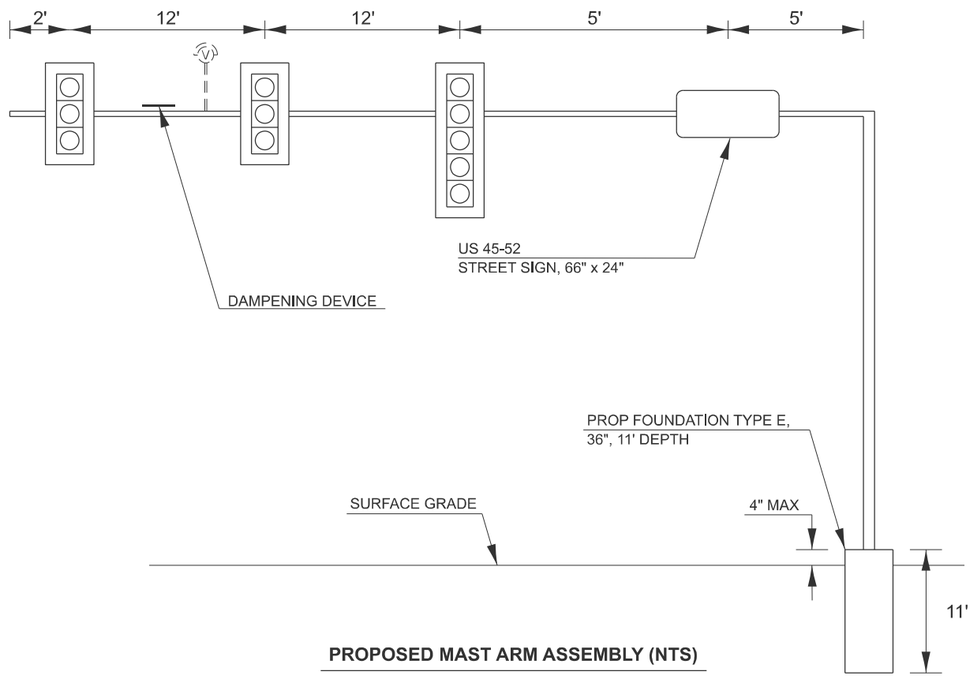
PROPOSED MAST ARM ASSEMBLY (NTS)

SOUTHBOUND



DAMPENING PLATE DETAIL (NTS)

(TOP VIEW) INCIDENTAL TO MAST ARM QTY



PROPOSED MAST ARM ASSEMBLY (NTS)

WESTBOUND

NOTE:

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

MODEL: Default
FILE NAME: c:\pw_work\pwidot\zagarjk\d1068083\66R42-Details.dgn

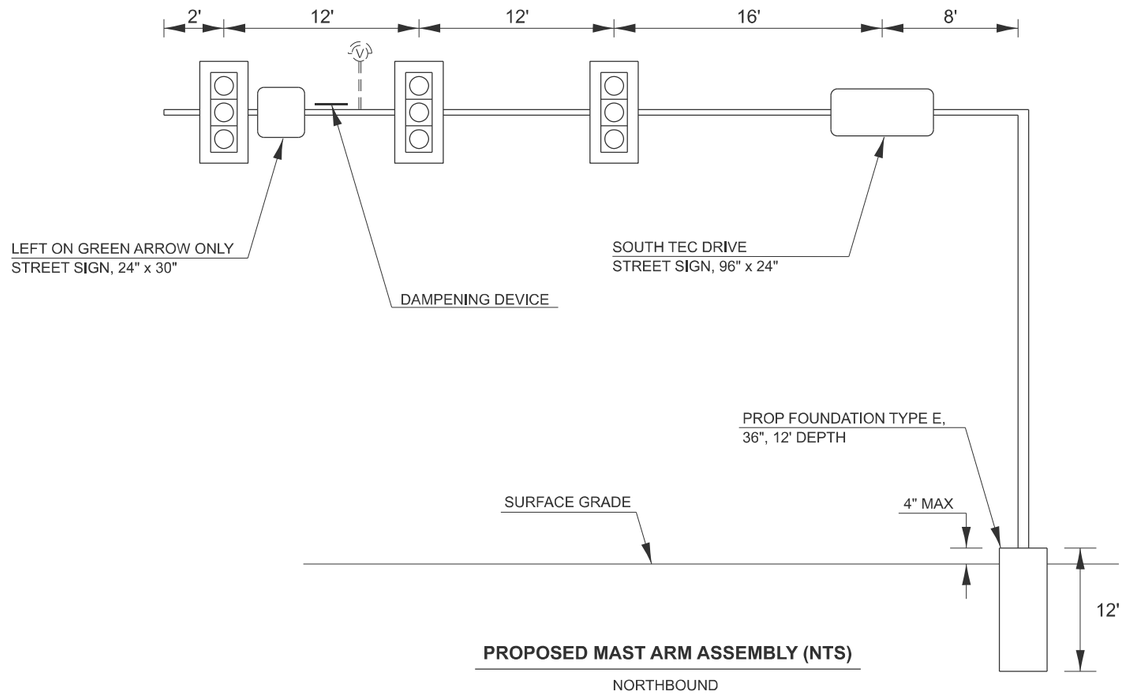
USER NAME = Joseph.Zagar	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 3/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM DETAILS
US 45 / 52 & RIVER ROAD INTERSECTION

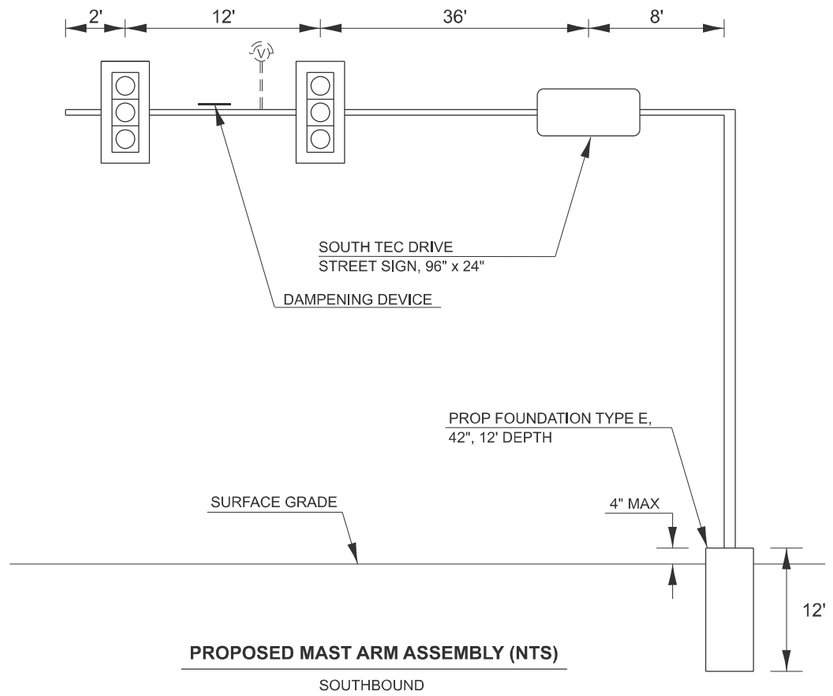
SCALE: | SHEET OF SHEETS | STA. | TO STA.

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



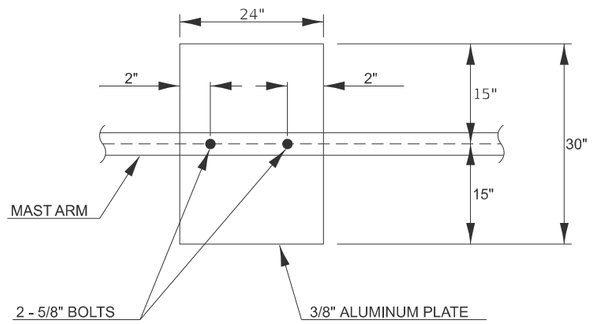
PROPOSED MAST ARM ASSEMBLY (NTS)

NORTHBOUND



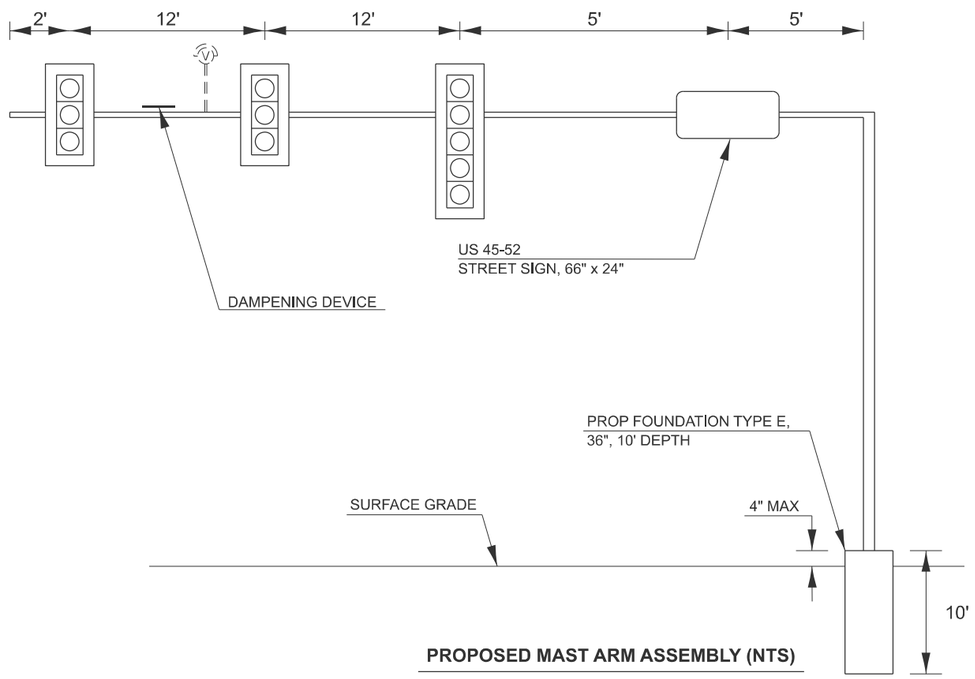
PROPOSED MAST ARM ASSEMBLY (NTS)

SOUTHBOUND



DAMPENING PLATE DETAIL (NTS)

(TOP VIEW) INCIDENTAL TO MAST ARM QTY



PROPOSED MAST ARM ASSEMBLY (NTS)

EASTBOUND

NOTE:

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

MODEL: Default
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PLOT DATE = 3/10/2025	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		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 9/12/23

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 _____

BORING NO. B-1 (NW Quad)
Station _____
Offset _____
Ground Surface Elev. 618.77 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 606.3 ft ▼
Upon Completion 606.8 ft ▽
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Black and Brown Silty Clay Loam Fill				
616.27		3		
Stiff Brown Silty Clay Loam Fill with Gravel Pieces		4 5	2.0 P	17
615.27				
Rust Red Loam with Heavy Dolomite Gravels				
614.27	-5			
Hard Brown and Gray Silty Clay Loam Till		4		
		5 6	4.0 P	21
611.77				
Very Stiff Gray Silty Clay, Clay, Silt, Silty Loam, Sand and Gravel Interbedded		3		
		4 5	3.5 P	24
609.27				
Very Stiff to Hard Gray Silty Loam Till with Some Silt Layers	-10	4		
		5 6	3.5 P	13
	▽			
	▼	6		
		8 10	>4.5 P	12
	-15			
		8		
		10 12	>4.5 P	10
602.27				
Gray Weathered and Reworked Limestone				
600.77		50		
Assumed Limestone Surface		100/1"		12
End of Boring				
	-20			

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)

SOIL BORING US 45_52 & RIVER ROAD (CH 40) IN KANKAKEE.GPJ IL_DOT.GDT 9/22/23

MODEL: Default
FILE NAME: c:\pw_work\pwidot\zagarjk\d1068083\66R42-Details.dgn

USER NAME = Joseph.Zagar	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 3/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
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	19
		CONTRACT NO. 66R42		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 9/12/23

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 _____

BORING NO. B-2 (NE Quad)
Station _____
Offset _____
Ground Surface Elev. 619.20 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 604.7 ft ▼
Upon Completion 606.2 ft ▽
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Shoulder Stone, Black and Brown Silty Clay Loam Fill				
616.70		2		
Very Stiff Brown and Gray Silty Clay Loam/Silty Loam Till		3 4	2.5 P	25
	-5	4		
		5 6	3.9 S	17
612.20				
Stiff to Hard Gray Silty Clay Loam/Silty Loam Till with Silt Layers		2		
		3 3	1.5 P	15
	-10	1		
		3 6	3.0 P	14
Large Limestone Gravel Pieces after 12' ▽		10		
		12 13	>4.5 P	9
604.70 ▼	-15			
Gray Weathered and Reworked Limestone		100/5"		
603.70				
Assumed Rock Surface (Limestone)				13
End of Boring				
	-20			

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)

SOIL BORING US 45_52 & RIVER ROAD (CH 40) IN KANKAKEE.GPJ IL_DOT.GDT 9/22/23

MODEL: Default
FILE NAME: c:\pw_work\pwidot\zagarjk\d1068083\66R42-Details.dgn

USER NAME = Joseph.Zagar	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 3/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
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	20
		CONTRACT NO. 66R42		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 9/12/23

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** NE 1/4, **SEC.** 18, **TWP.** 30N, **RNG.** 13W, 2nd **PM**, **Latitude** 41.08627, **Longitude** -87.86878

COUNTY Kankakee **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-1 (SW Quad.)
Station _____
Offset _____
Ground Surface Elev. 621.05 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After _____ Hrs. _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Black Silty Clay Loam Fill				
	618.55	4		
Very Stiff Rust Orange Silty Loam/Loam with Gravel Pieces and Silt Pockets		5 9	3.0 P	12
	616.05 -5			
Buff Weathered and Reworked Dolomite	615.05	18 24 59		10
Assumed Dolomite Surface - Auger Refusal at 6' End of Boring				
	-10			
	-15			
	-20			

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)

SOIL BORING US 45_52 & SOUTH TECH ROAD (TR 137) IN KANKAKEE.GPJ IL_DOT.GDT 9/22/23

MODEL: Default
FILE NAME: c:\pw_work\pwidot\zagarjk\d1068083\66R42-Details.dgn

USER NAME = Joseph.Zagar	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 3/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
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	21
		CONTRACT NO. 66R42		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 9/12/23

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 _____

BORING NO. B-2 (NE Quad.)
Station _____
Offset _____
Ground Surface Elev. 622.07 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After _____ Hrs. _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Shoulder Stone, Black Silty Clay Loam Fill with Gravel Layers				
619.57		2		
Very Stiff Rust Orange Silty Loam/Loam with Dolomite Gravel and Silt Pockets		6 8	2.5 P	14
617.07	-5	10		
Buff Weathered and Reworked Dolomite		18 61		9
615.07				
Assumed Rock Surface - Auger Refusal at 7' End of Boring	-10			
	-15			
	-20			

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)

SOIL BORING US 45_52 & SOUTH TECH ROAD (TR 137) IN KANKAKEE.GPJ IL_DOT.GDT 9/22/23

MODEL: Default
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USER NAME = Joseph.Zagar	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 3/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
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	22
		CONTRACT NO. 66R42		
	ILLINOIS	FED. AID PROJECT		