01-16-2026 LETTING ITEM 029

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 62W92		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

IL RTE 72 /IL RTE 25 /IL RTE 62/IL RTE 120
SECTION: 2024–967–TS
PROJECT NO: CMAQ–SMFN(462)
CMAQ TRAFFIC SIGNAL INTERCONNECT AND ITS
VARIOUS COUNTY

C–91–239–24

D–91–198–24

LOCATION OF SECTION INDICATED THUS: –

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

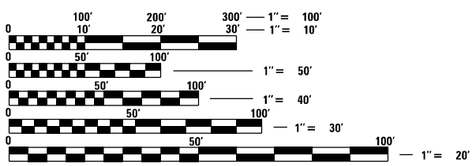
IL RTE 72
ADT (2024) = 16300–29200
POSTED SPEED = 55 MPH
FAP ROUTE 0341

IL RTE 68
ADT (2024) = 7450–11100
POSTED SPEED = 35 MPH
FAP ROUTE 0343

IL RTE 25
ADT (2024) = 13900–25700
POSTED SPEED = 45 MPH
FAP ROUTE 0360

IL RTE 62
ADT (2024) = 29200–43100
POSTED SPEED = 40 MPH
FAP ROUTE 0339

IL RTE 120
ADT (2024) = 23100
POSTED SPEED = 35 MPH
FAP ROUTE 0333



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

FOR LOCATION MAP
SEE SHEETS NO. 4

VARIOUS TOWNSHIPS

DOUGLAS J. BRAZELTON
062-047371
REGISTERED
PROFESSIONAL
ENGINEER
OF
ILLINOIS

SIGNED DATE: 10-20-2025
EXPIRATION DATE: 11-30-2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 17th 2025

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 5 2025

ENGINEER OF DESIGN AND ENVIRONMENT

December 5 2025

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: KAMIL A. KOBYLKA, PE (847) 705–4734
PROJECT MANAGER: JONATHAN LLOYD, PE (847)–705–4135

CONTRACT NO. 62W92

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

IDOT HIGHWAY STANDARDS

STD. NO.	TITLE
000001-09	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
701001-02	OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS 45±MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS 40±MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-11	TRAFFIC CONTROL DEVICES
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING

RLR NOTES

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS, CONTRACTOR SHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATION:

TS 880 IL RTE 72 (MAIN ST) AT IL RTE 68 (PENNY AVE)

TS 770 IL RTE 72 (HIGGINS RD) AT IL RTE 25 (DUNDEE AVE)

VILLAGE OF EAST DUNDEE
120 BARRINGTON AVE
EAST DUNDEE, IL 60118
(847) 426-2822

RED SPEED, LLC
400 EISENHOWER, LANE
LOMBARD, IL 60148

TS 1000 IL RTE 31 (EIGHTH ST) AT IL RTE 72 (MAIN ST)

VILLAGE OF WEST DUNDEE
102 S SECOND ST
WEST DUNDEE, IL 60118
(847) 551-3800

RED SPEED, LLC
400 EISENHOWER, LANE
LOMBARD, IL 60148

TS 7820 IL RTE 131 (GREEN BAY RD) AT IL RTE 120 (BELVIDERE RD)

CITY OF WAUKEGAN
100 N MARTIN LUTHER KING JR AVE
WAUKEGAN, IL 60085
(847) 599-2500

AMERICAN TRAFFIC SOLUTIONS
7681 EAST GRAY ROAD
SCOTTSDALE, AZ 85260

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION. THE CONTRACTOR SHALL CALL "J.U.L.I.E," AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

2. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV, 72 HOURS IN ADVANCE OF BEGINNING WORK.

3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.

4. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES. LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES. CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

5. IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR. THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

6. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

8. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. , AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGED TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

10. PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

11. ALL EXISTING R.O.W. SHOWN IS APPROXIMATE AND MAY NEED TO BE VERIFIED IN THE FIELD. ANY R.O.W. CONFLICTS SHALL BE COORDINATED WITH THE RESIDENT ENGINEER. ALL PROPOSED WORK SHALL TAKE PLACE WITHIN EXISTING ROW WITHIN EXISTING FACILITIES INCLUDING HANDHOLES, CONDUITS, OR TRAFFIC SIGNAL CABINETS.

12. THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM THE PROTECT THE PUBLIC DURING ALL CONSTRUCTION ACTIVITIES.

13. THE CONTRACTOR SHALL COORDINATE WITH IDOT, LAKE COUNTY, AND EQUIPMENT VENDORS FOR THE BEST LOCATION AND ORIENTATION OF EACH PROPOSED PTZ CAMERA PRIOR TO CAMERA INSTALLATION.

14. THE CONTRACTOR SHALL MARK THE RECORD DRAWINGS TO REFLECT ANY CHANGES TO THE PLANS. THE RECORD DRAWINGS REQUIREMENTS ARE IDENTIFIED IN SECTION 801.16 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

15. THE QUANTITY FOR THE ROD AND CLEAN EXISTING CONDUIT IS FOR USE WITH EXISTING CONDUITS WHICH HAVE ALL EXISTING CABLES REMOVED. THE QUANTITY PROVIDED IS A NOMINAL QUANTITY AND SHALL BE USED AS NEEDED OR AS DETERMINED BY THE ENGINEER BASED ON FIELD CONDITIONS.

16. THE QUANTITY FOR TEMPORARY INFORMATION SIGNING IS FOR USE WITH DISTRICT DETAIL ARTERIAL ROAD INFORMATION SIGN (TC 22). ONE SIGN IS TO BE USED FOR EACH END OF EACH INTERCONNECT CORRIDOR, MAIN ROUTE, OR ZONE.

17. MAINLINE AND SIDE ROAD 'ROAD CONSTRUCTION AHEAD' SIGNS SHALL REMAIN INSTALLED AT LOCATIONS WHERE ROADWAY HAZARDS WITHIN THE WORK ZONE WILL REMAIN OVERNIGHT.

GENERAL NOTES CONTINUED

✳ 18. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR PROPOSED PLAN. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. CERTAIN RECORD DRAWINGS SHEETS HAVE BEEN INCLUDED FOR INFORMATION ONLY FOR BETTER UNDERSTANDING OF THE ENTIRE SYSTEM WHICH UTILIZES BOTH EXISTING AND PROPOSED FIBER INFRASTRUCTURE.

19. THE WORK IN THIS CONTRACT IS LIMITED TO THE INSTALLATION OF THE HANDHOLES, CONDUITS, TRACER CABLE, PTZ CAMERAS, SWITCHES, CONTROLLERS, AND FIBER OPTIC CABLE AS WELL AS ANY OTHER COMPONENTS AS SPECIFIED IN THE SCHEDULE OF QUANTITIES. THERE ARE NO PHASE CHANGES. PLANS USE EXISTING RECORD DRAWINGS WHICH SHOW PROPOSED EQUIPMENT FROM PREVIOUS CONTRACTS. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES. PHASING FOR THE NEW CONTROLLERS SHALL BE REPLICATED FROM EXISTING CONTROLLERS.

20. THE CONTRACTOR SHALL TAKE CARE TO PROTECT ALL SIGNS ALONG THE ROUTE OF CONSTRUCTION. SIGNS SHALL BE REMOVED IF THEY ARE IN CONFLICT WITH PROPOSED WORK, AND APPROVED BY THE ENGINEER. ALL LABOR NECESSARY TO COMPLY WITH THE RELOCATION OF SIGNS SHALL BE INCLUDED IN THE CONTRACT WITHOUT ANY COMPENSATION ALLOWED TO THE CONTRACTOR ACCORDING TO ART. 107.25, UNLESS MARKED ON THE PLANS.

21. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

22. LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.

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

24. THE EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THE PROPOSED CONDUIT AND FIBER OPTIC CABLE.

25. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE CONDUIT PAY ITEMS.

26. REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, AND ISLANDS FOR UTILITY LOCATING PURPOSES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE BID UNIT PRICE FOR THE CONDUIT PAY ITEMS.

27. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN THE REQUIRED MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

28. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID UNIT PRICE FOR THE CONDUITS.

29. THE LOCATION OF THE PROPOSED CONDUIT AS SHOWN ON THE PLAN SHEETS IS APPROXIMATE AND NOT DRAWN TO SCALE.

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MOWING AND BRUSH/SHRUB REMOVAL REQUIRED TO INSTALL THE PROPOSED CONDUIT AND HANDHOLES.

31. THE CONTRACTOR SHALL PLAN AND CONDUCT CONDUIT AND FIBER INSTALLATION OPERATIONS TO MINIMIZE THE NUMBER OF ROADWAY LANE CLOSURES AND TO MINIMIZE TRAFFIC DISRUPTIONS AND DELAYS FOR THE MOTORING PUBLIC. THE CONTRACTOR SHALL OBTAIN ALL PERMITS ALONG STATE, COUNTY, AND TOWNSHIP ROADWAYS.

32. MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE APPLICABLE HIGHWAY AND DISTRICT STANDARDS.

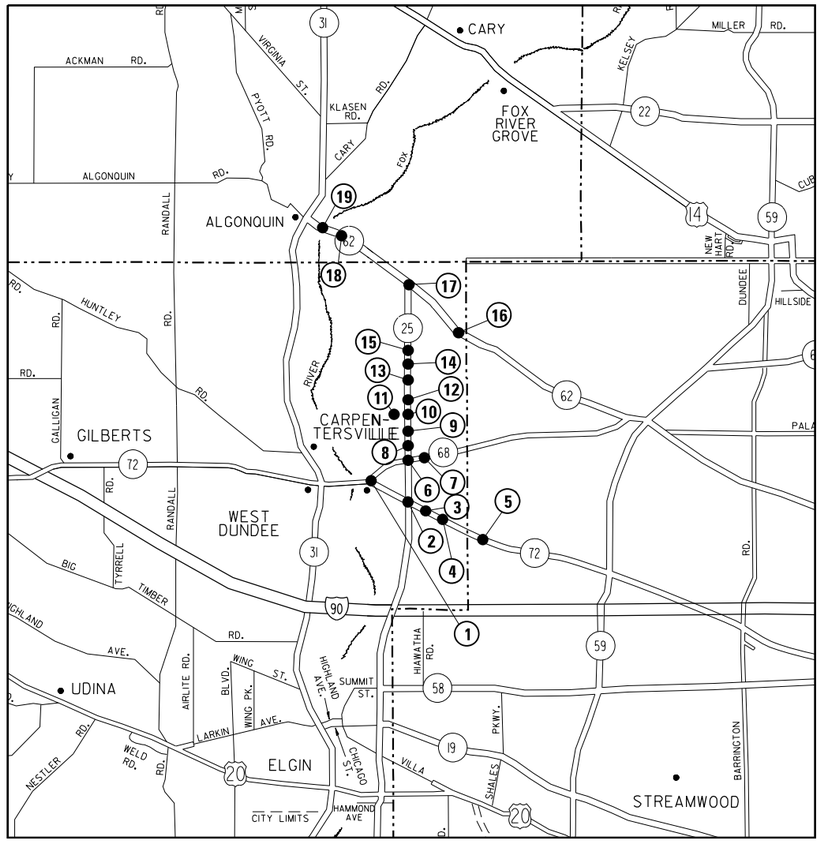
33. THE CONTRACTOR SHALL MINIMIZE THE IMPACT OF THE WORK BY UTILIZING OFF-ROAD OPERATIONS WHERE POSSIBLE.

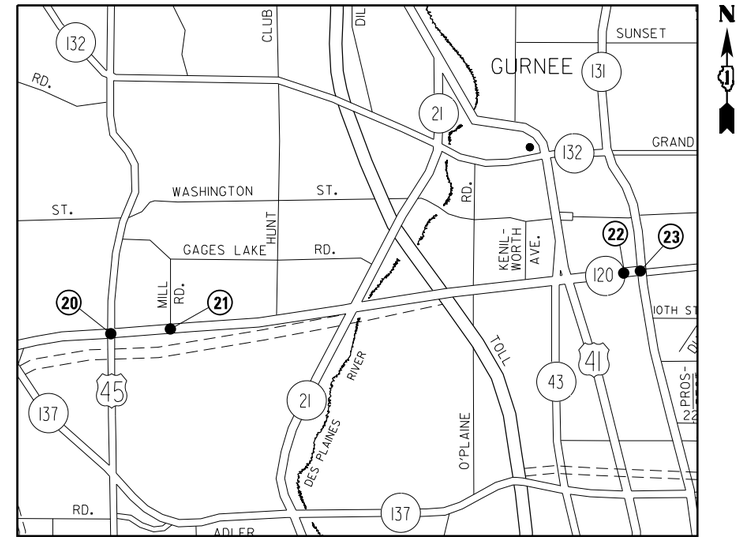
34. AT WORK AREAS THAT IMPACT PEDESTRIANS AND/OR SIDEWALK, STANDARD 701801 SHALL BE USED. CONTRACTOR SHALL MINIMIZE WORK AREAS AND DISRUPTION TO SIDEWALK WHENEVER POSSIBLE.

35. REVISED CABINET WIRING DIAGRAMS SHALL BE SUBMITTED WHENEVER ANY WIRING MODIFICATIONS ARE MADE TO THE TRAFFIC SIGNAL CABINET.

36. FIBER OPTIC PIGTAIL BETWEEN HANDHOLE SPLICE AND END DEVICE SHALL BE 24 SINGLE MODE FIBER. FIBER OPTIC PIGTAIL SHALL BE SPLICED AND TERMINATED AS SHOWN ON THE FIBER SPLICING DIAGRAM.

37. FIBER OPTIC INTERCONNECT CENTER SHALL BE INSTALLED SUCH THAT CABINET DOOR DO NOT CLOSE ON THE FIBER PIGTAILS AND OR PATCH CORDS. PROVIDE SUFFICIENT SPACE AND ADJUST CABINET SHELF AS NEEDED.





LOCATION NO.	TS NO.	COUNTY	INTERSECTION NAME
1	880	KANE	IL RTE 72 (MAIN ST) AT IL RTE 68 (PENNY AVE)
2	770	KANE	IL RTE 72 (HIGGINS RD) AT IL RTE 25 (DUNDEE AVE)
3	903	KANE	IL RTE 72 (HIGGINS RD) AT CHRISTINA DR
4	905	KANE	IL RTE 72 (HIGGINS RD) AT ROCK ROAD DR
5	3340	COOK	IL RTE 72 (HIGGINS RD) AT BEVERLY RD
6	765	KANE	IL RTE 25 AT IL RTE 68 (BARRINGTON AVE)
7	883	KANE	IL RTE 68 (DUNDEE RD) AT GOLFVIEW LN
8	4315	KANE	IL RTE 25 AT L.W. BESINGER DR
9	4305	KANE	IL RTE 25 AT GOLFVIEW LN
10	4390	KANE	IL RTE 25 AT LAKE MARIAN RD
11	4400	KANE	LAKE MARIAN RD AT WALMART ENT
12	4325	KANE	IL RTE 25 AT ROBIN RD
13	4310	KANE	IL RTE 25 AT KINGS RD
14	4320	KANE	IL RTE 25 AT HELM RD
15	7991	KANE	IL RTE 25 AT LONGMEADOW PKWY
16	7997	KANE	LONGMEADOW PKWY AT IL RTE 62 (ALGONQUIN RD)
17	760	KANE	IL RTE 25 AT IL RTE 62 (ALGONQUIN RD)
18	7795	MC HENRY	IL RTE 62 (CHICAGO) AT EASTGATE DR
19	11580	MC HENRY	IL RTE 62 (ALGONQUIN RD) AT HARRISON ST
20	12305	LAKE	US RTE 45 AT IL RTE 120 (BELVIDERE RD)
21	21969	LAKE	IL RTE 120 (BELVIDERE RD) AT MILL RD
22	7005	LAKE	IL RTE 120 (BELVIDERE RD) AT RUTH WILCOX AVE
23	7820	LAKE	IL RTE 131 (GREEN BAY RD) AT IL RTE 120 (BELVIDERE RD)

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\004_Location Map.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	4

CONTRACT NO. 62W92

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
					80% FED 20% STATE KANE COUNTY	80% FED 20% STATE MCHENRY COUNTY	80% FED 20% STATE LAKE COUNTY	80% FED 20% STATE COOK COUNTY
					INTERCONNECT	INTERCONNECT	INTERCONNECT	INTERCONNECT
					0021	0021	0021	0021
					URBAN	URBAN	URBAN	URBAN
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	70	48.7	6.1	12.2	3.0
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	6	4.2	0.5	1.0	0.3
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.70	0.09	0.17	0.04
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.70	0.09	0.17	0.04
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	14	10	1	2	1
	67100100	MOBILIZATION	L SUM	1	0.70	0.09	0.17	0.04
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.70	0.09	0.17	0.04
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.70	0.09	0.17	0.04
	70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	0.70	0.09	0.17	0.04
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.70	0.09	0.17	0.04
	70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	0.70	0.09	0.17	0.04
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.70	0.09	0.17	0.04
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.70	0.09	0.17	0.04
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	334	167	77	90	
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	850	670	180		
	81400100	HANDHOLE	EACH	17	13	2	2	
	81400200	HEAVY-DUTY HANDHOLE	EACH	10	4		4	2

* SPECIALTY ITEM

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 1 OF 4)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	5

CONTRACT NO. 62W92

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

REV-SEP

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phl TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\005_SOQ-01.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE KANE COUNTY	80% FED 20% STATE MCHENRY COUNTY	80% FED 20% STATE LAKE COUNTY	80% FED 20% STATE COOK COUNTY
				INTERCONNECT	INTERCONNECT	INTERCONNECT	INTERCONNECT
				0021	0021	0021	0021
				URBAN	URBAN	URBAN	URBAN
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	22	15	2	4	1
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	47,946	37,703		8,027	2,216
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	9,574	7,527	967	1,080	
87900200	DRILL EXISTING HANDHOLE	EACH	20	13	2	4	1
88500100	INDUCTIVE LOOP DETECTOR	EACH	60	44	3	13	
88600100	DETECTOR LOOP, TYPE I	FOOT	216	216			
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	4			
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	5	4		1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	15,662	15,662			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	13	10	1	2	
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	6,691	6,691			
X0325922	CELLULAR MODEM	EACH	1	1			
X0328033	TERMINAL SERVER	EACH	1	1			
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	1,219	1,074		145	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE KANE COUNTY	80% FED 20% STATE MCHENRY COUNTY	80% FED 20% STATE LAKE COUNTY	80% FED 20% STATE COOK COUNTY
				INTERCONNECT	INTERCONNECT	INTERCONNECT	INTERCONNECT
				0021	0021	0021	0021
				URBAN	URBAN	URBAN	URBAN
X8891104	REMOTE CONTROLLED VIDEO SYSTEM	EACH	8	6		2	
X1400216	LAYER II (DATALINK) SWITCH	EACH	16	13		3	
X1400217	TERMINATE FIBER IN CABINET	EACH	12	12			
X1400221	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1	1			
X1400460	LAYER III (NETWORK) SWITCH	EACH	1	1			
X1400514	TACTICS LICENSE EXPANSION	EACH	15	13		2	
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	4	4	2	2
X8101099	UNDERGROUND CONDUIT, MULTI-DUCT, 3 WAY - 22MM (2), 1.25" SDR (1) MICRODUCTS	FOOT	31,959	22,082	1,295	6,757	6,757
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	5	5			
X8570227	FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	6	4		2	
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	6	4		2	
X8620310	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	8	7	1		
X8710029	FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	14,885	6,858		8,027	
X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	33,061	30,845			2,216

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE KANE COUNTY	80% FED 20% STATE MCHENRY COUNTY	80% FED 20% STATE LAKE COUNTY	80% FED 20% STATE COOK COUNTY
				INTERCONNECT	INTERCONNECT	INTERCONNECT	INTERCONNECT
				0021	0021	0021	0021
				URBAN	URBAN	URBAN	URBAN
X8710070	FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	13	11		2	
X8891009	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	4	2	2		
Z0010688	CAMERA MOUNTING ASSEMBLY	EACH	5	3		2	
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	308	154	25.7	102.8	25.7
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2			2	
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	2	2			

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 4 OF 4)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	8

CONTRACT NO. 62W92

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

REV-SEP

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\008_SOQ-04.dgn

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P P	P P
SAMPLING (SYSTEM) DETECTOR	S S	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS IS	IS IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G Y G P R Y G Y G P	R Y G Y G P R Y G Y G P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G Y G P R Y G Y G P R Y G Y G RB	R Y G Y G P R Y G Y G P R Y G Y G RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 I/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6*18	6*18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

USER NAME = $USER$	DESIGNED - IP	REVISED -	
	DRAWN - IP	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - IP	REVISED -	
PLOT DATE = $DATE$	DATE - 6/8/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	9
	TS-05	CONTRACT NO. 62W92		
		ILLINOIS	FED. AID PROJECT	

FILE NAME = S:\Projects\2216 - IDOT D1 Var Proj TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\009_IDOT DETAILS_1.dgn

LOOP DETECTOR NOTES

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

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

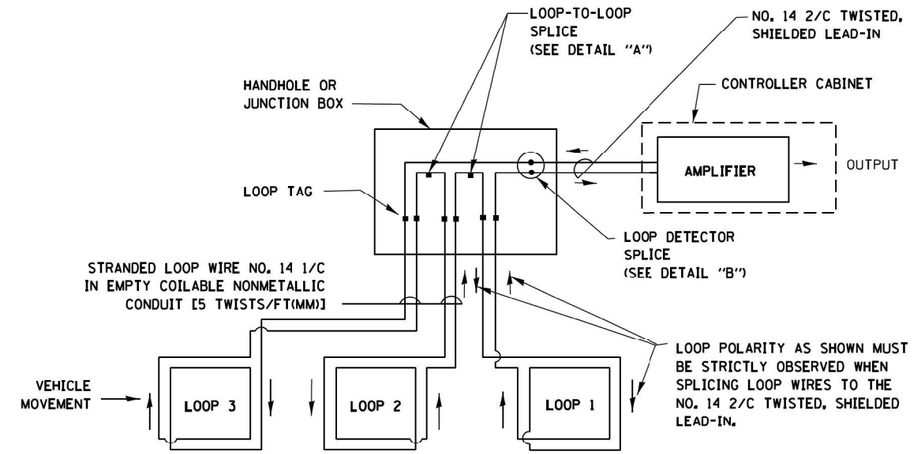
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR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

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

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

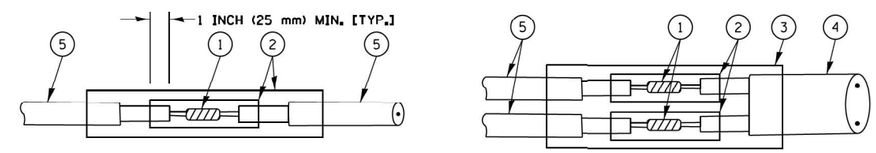
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

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



DETECTOR LOOP WIRING SCHEMATIC

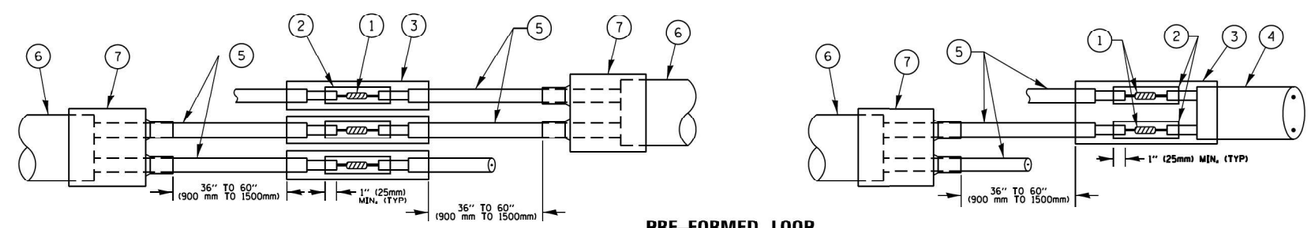
- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

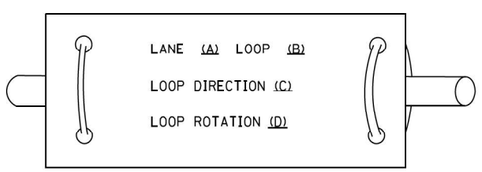


DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP LEAD-IN CABLE TAG



A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

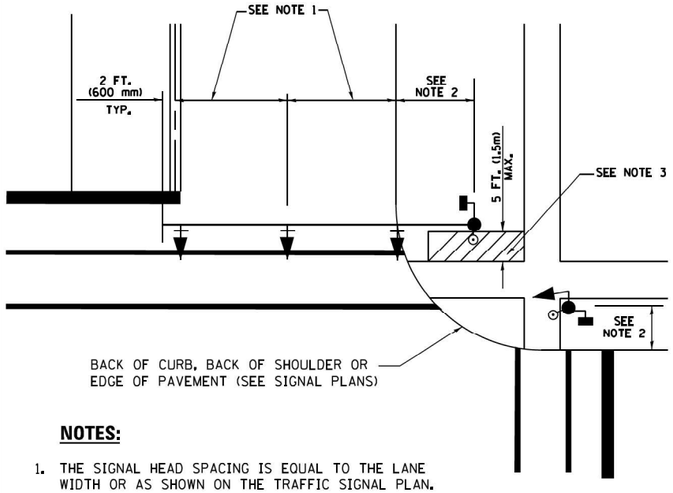
D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

LOOP DETECTOR SPLICE

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

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

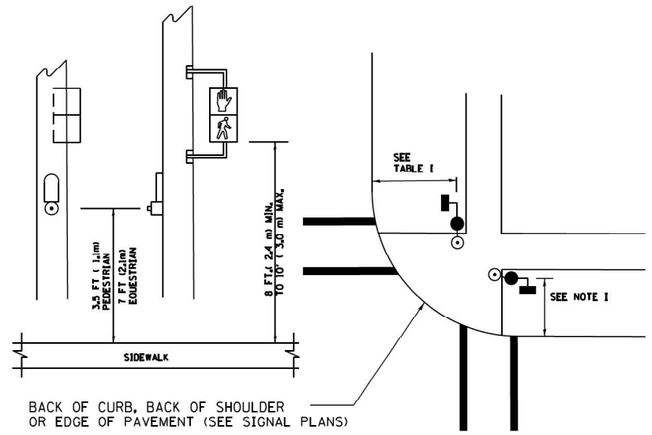
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

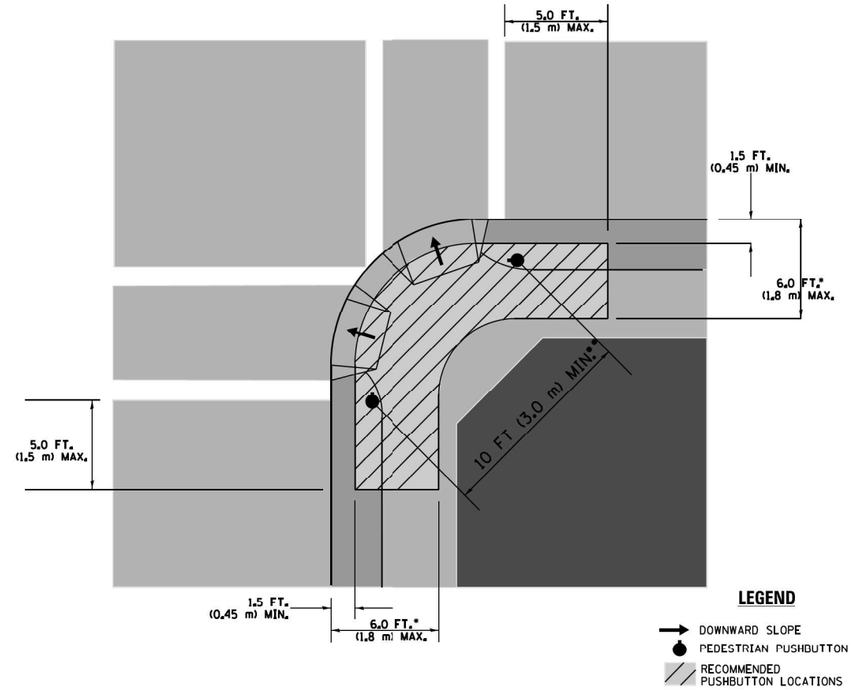
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

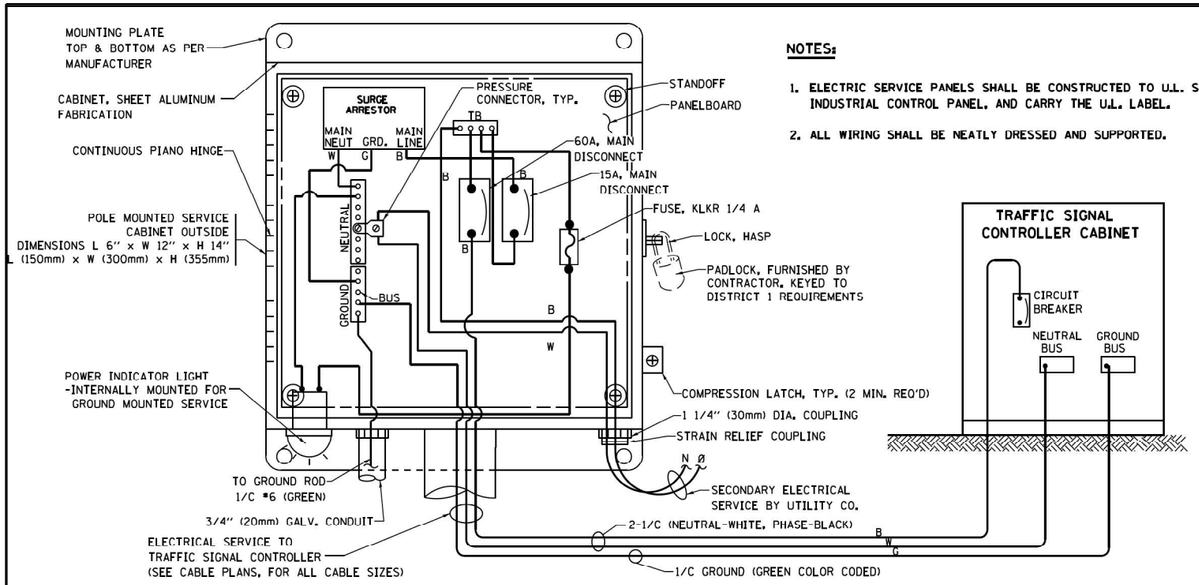
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

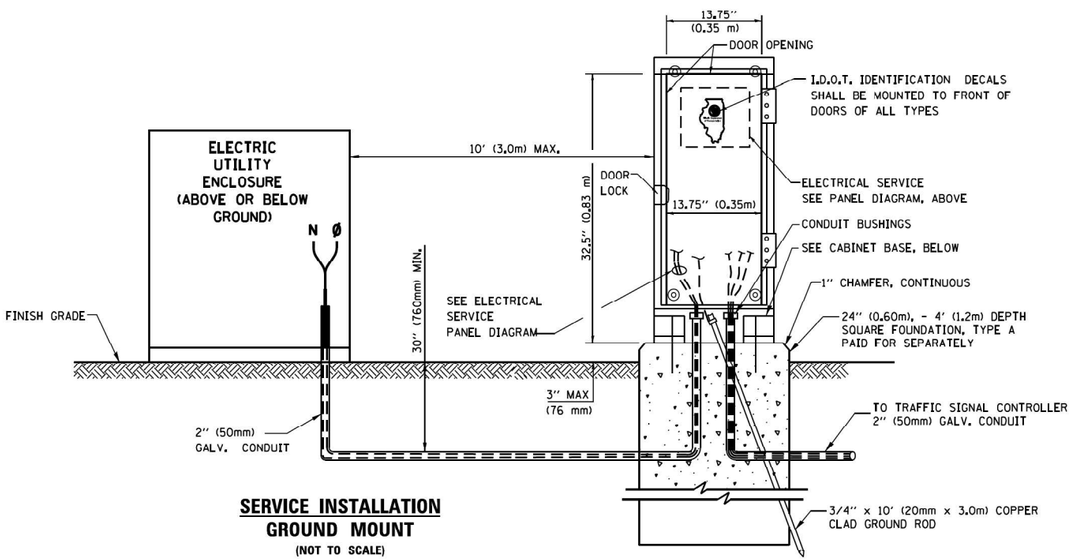


NOTES:

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

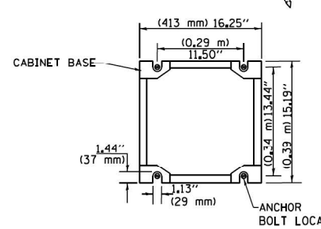
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



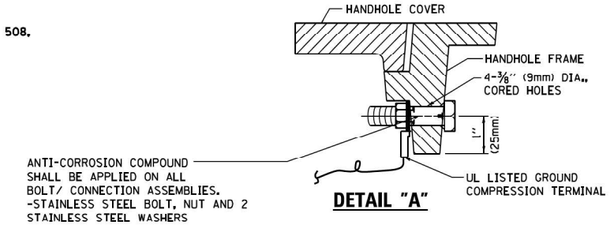
SERVICE INSTALLATION
GROUND MOUNT

(NOT TO SCALE)

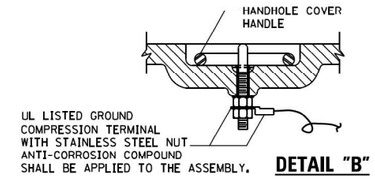


CABINET – BASE BOLT PATTERN

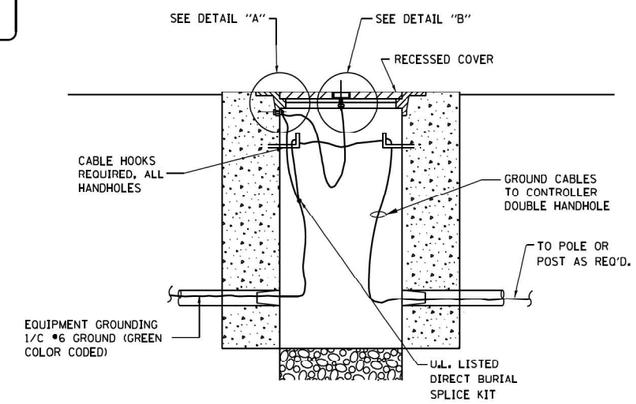
(NOT TO SCALE)



DETAIL "A"



DETAIL "B"

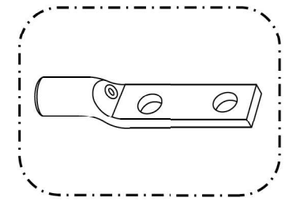


HANDHOLE COVER & FRAME – GROUNDING DETAIL

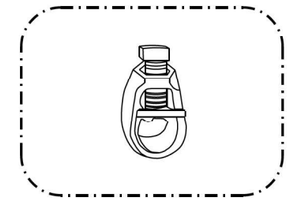
(NOT TO SCALE)

NOTES:
GROUNDING SYSTEM

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



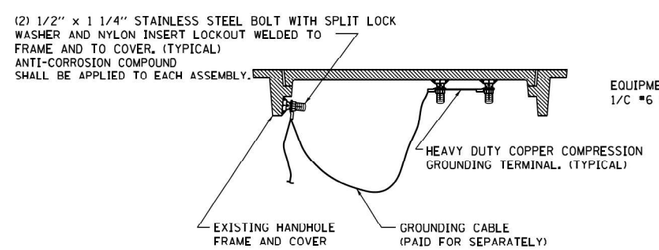
HEAVY-DUTY COMPRESSION TERMINAL
(BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP
(BURNDY TYPE GRC OR APPROVED EQUAL)

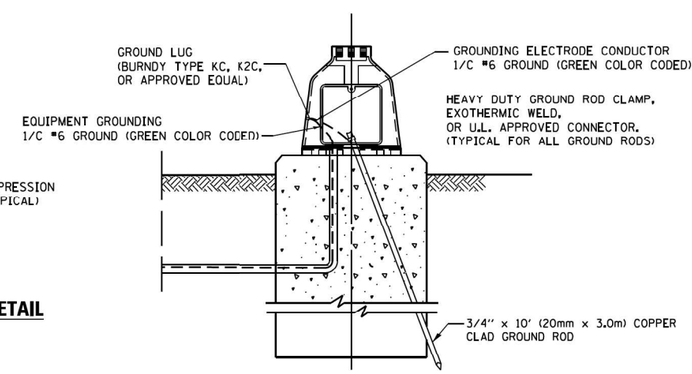
NOTES:

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



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD Sheets\012_IDOT DETAILS_4.dgn

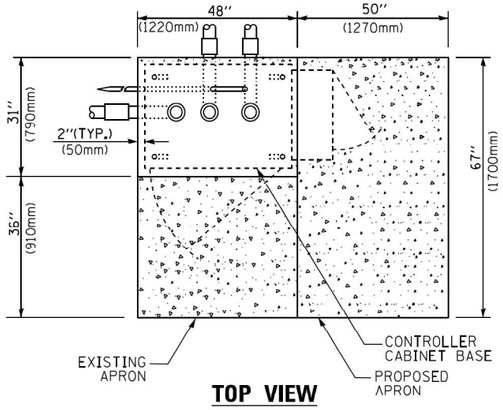
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

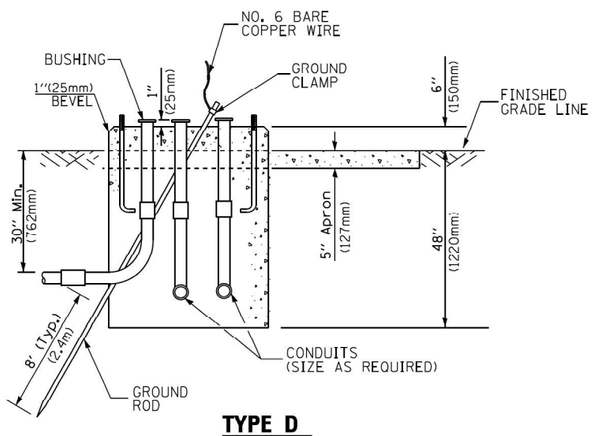
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

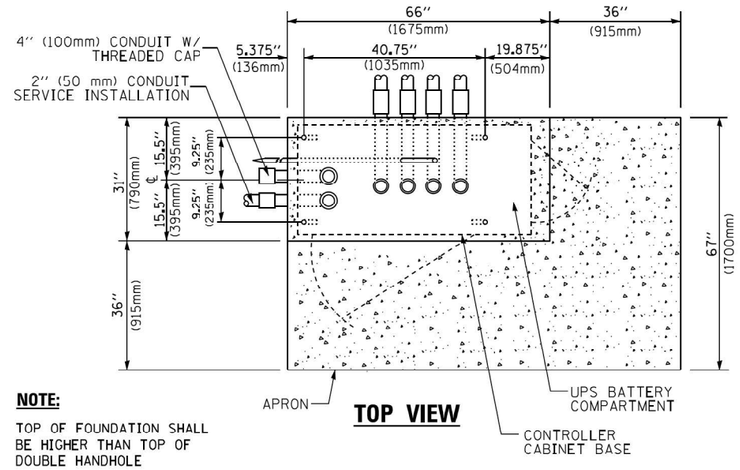
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	12
	TS-05	CONTRACT NO. 62W92		
		ILLINOIS	FED. AID PROJECT	



TOP VIEW



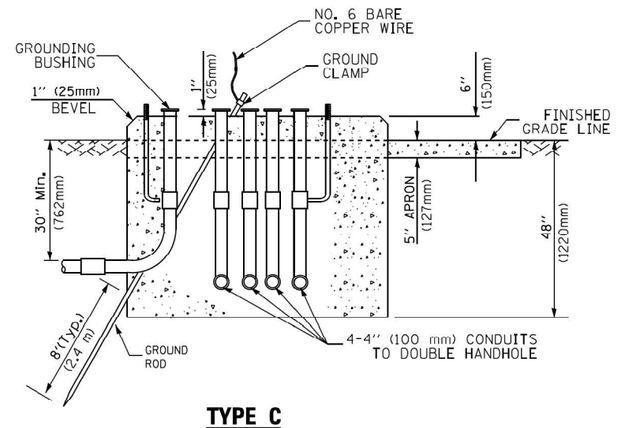
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



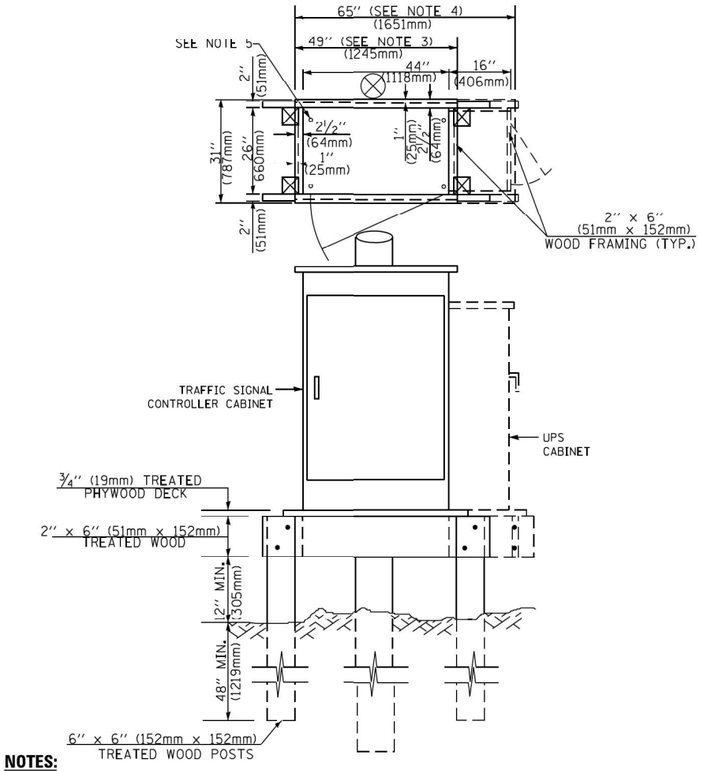
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\013_IDOT DETAILS_5.dgn

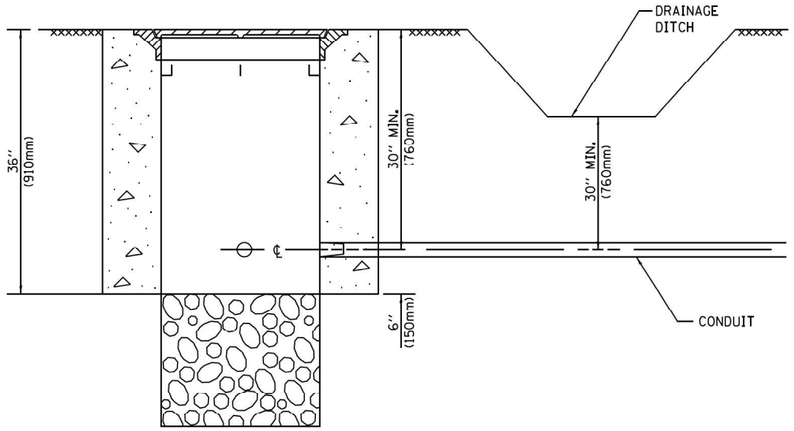
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	13
	TS-05	CONTRACT NO. 62W92		
		ILLINOIS	FED. AID PROJECT	

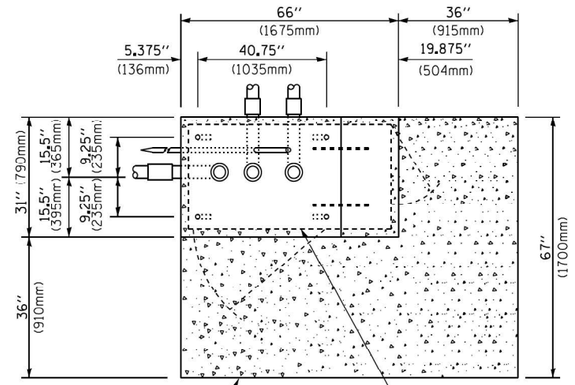


NOTES:

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

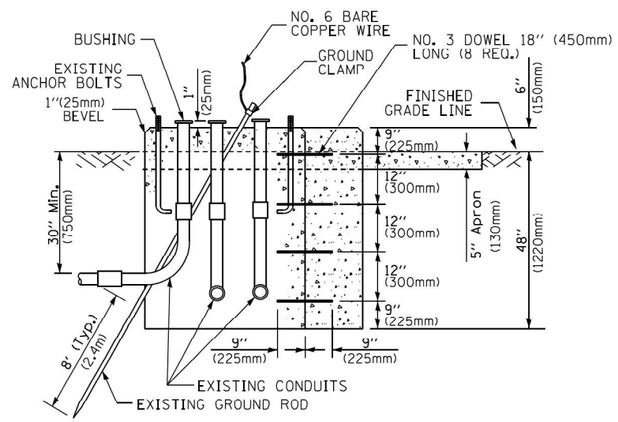
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



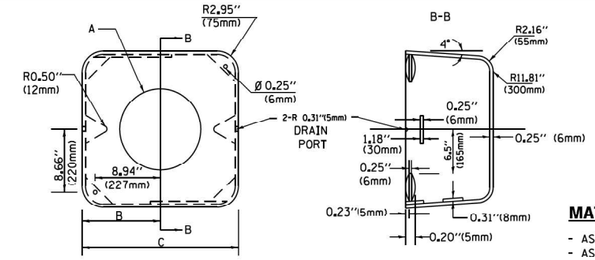
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

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

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

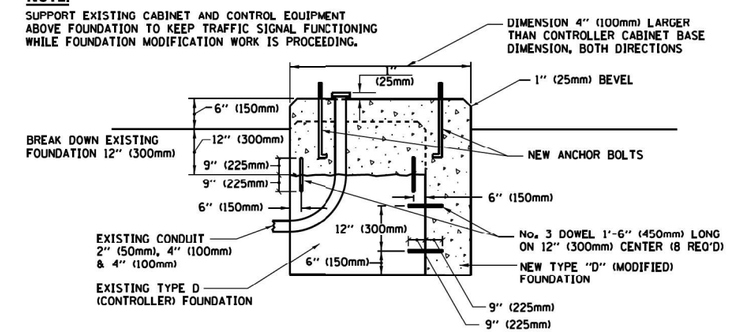
SHROUD

NOTES:

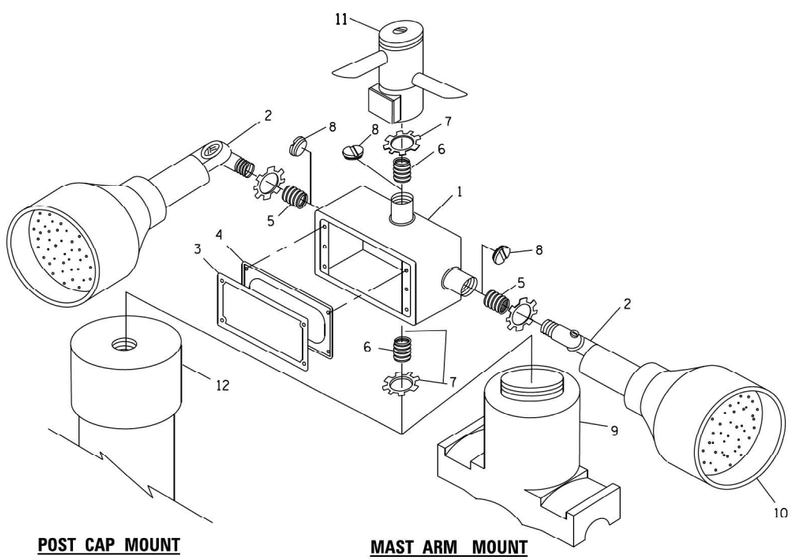
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

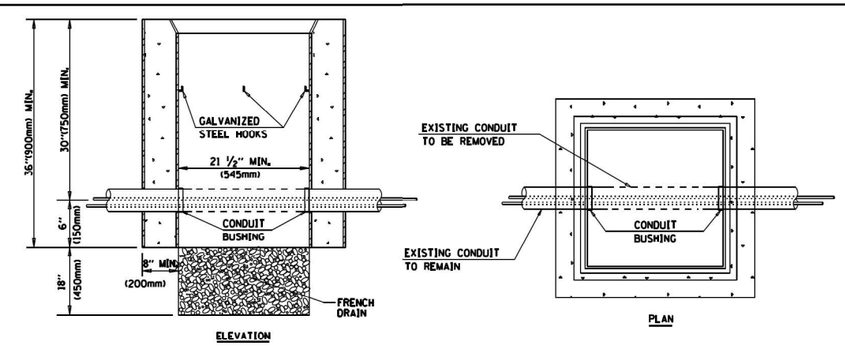
MAST ARM MOUNT

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

NOTES:

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

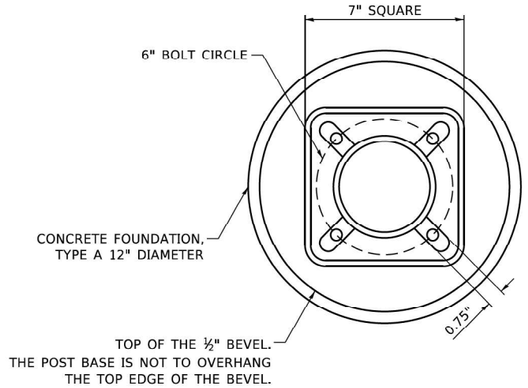
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



NOTES:

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

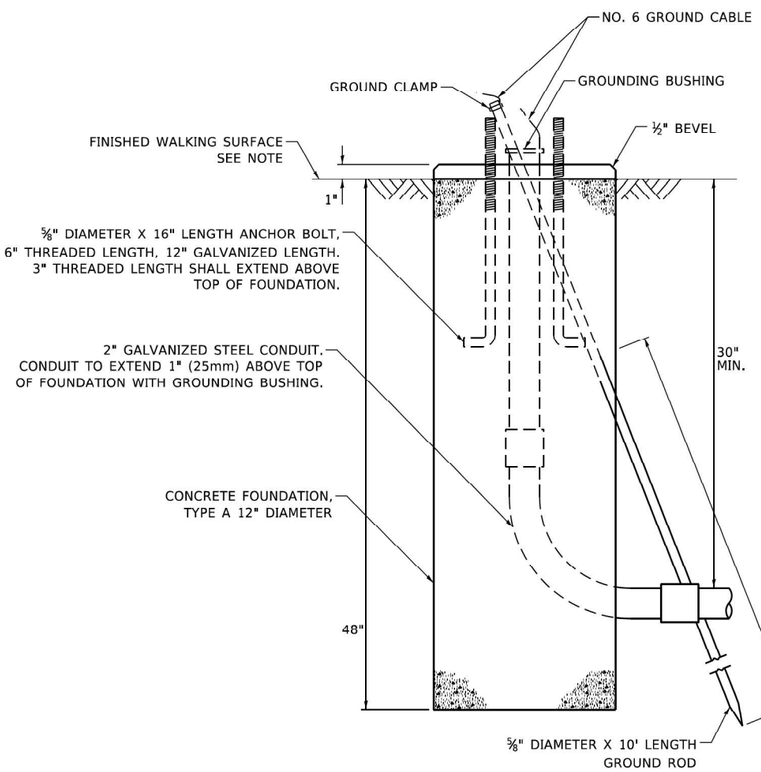
HANDHOLE TO INTERCEPT EXISTING CONDUIT



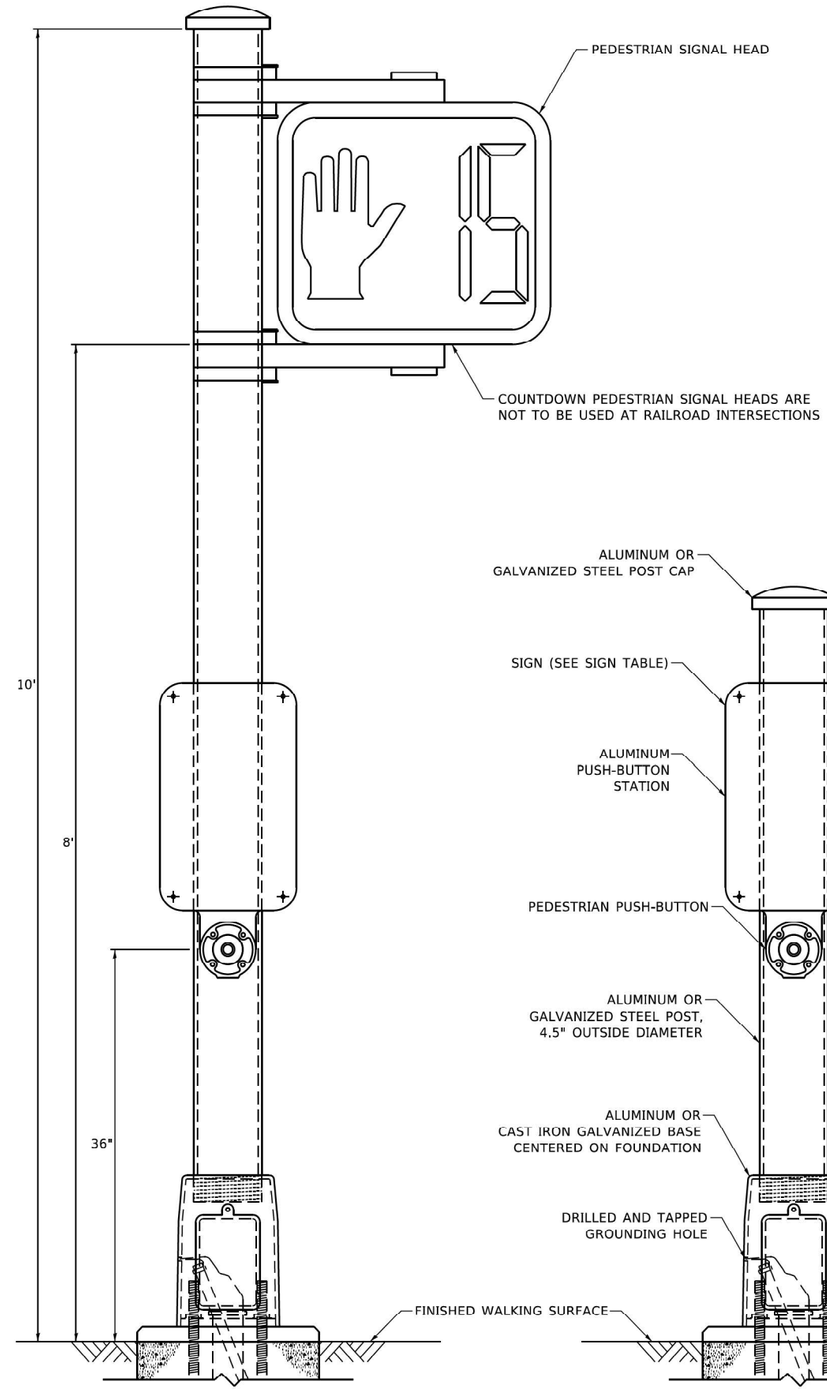
BOLT PATTERN

NOTE:

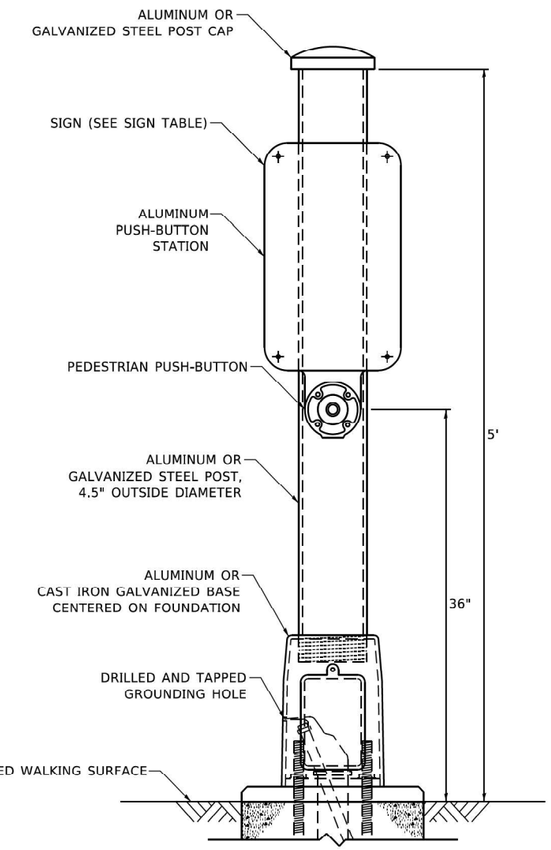
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.

R10-3b R10-3d R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:

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

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\015_IDOT DETAILS_7.dgn

USER NAME = $USER$	DESIGNED - IP	REVISED - 10/15/2020	
	DRAWN - IP	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - LP	REVISED -	
PLOT DATE = $DATE$	DATE - 10/15/2018	REVISED -	

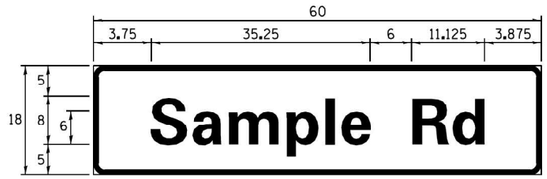
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

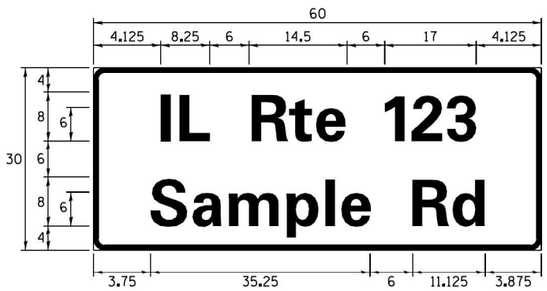
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

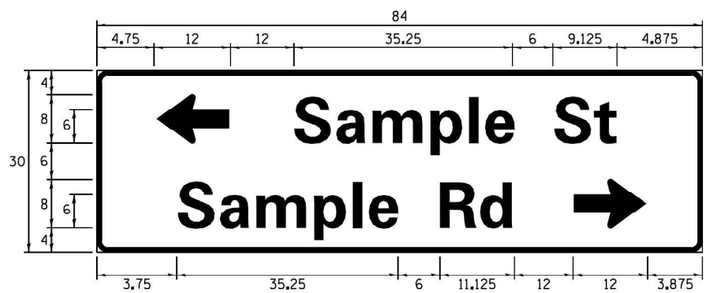
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	15
	TS-05	CONTRACT NO. 62W92		
	ILLINOIS	FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2







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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.

2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)

3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6". IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.

4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.

5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.

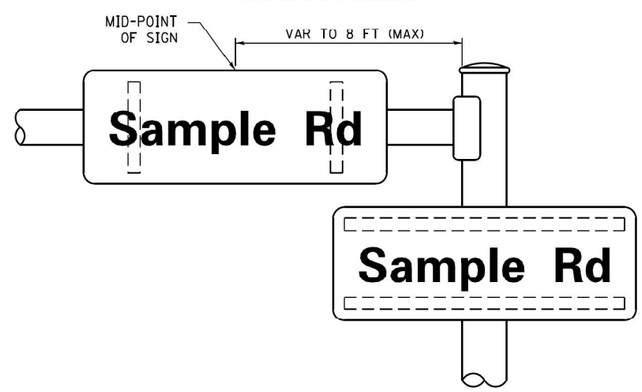
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
	SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

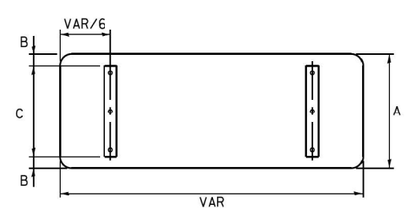
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

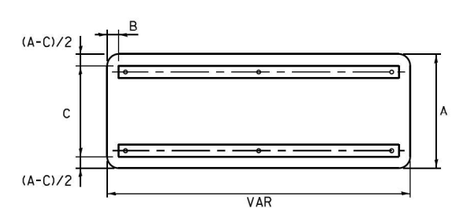
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

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

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.234	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

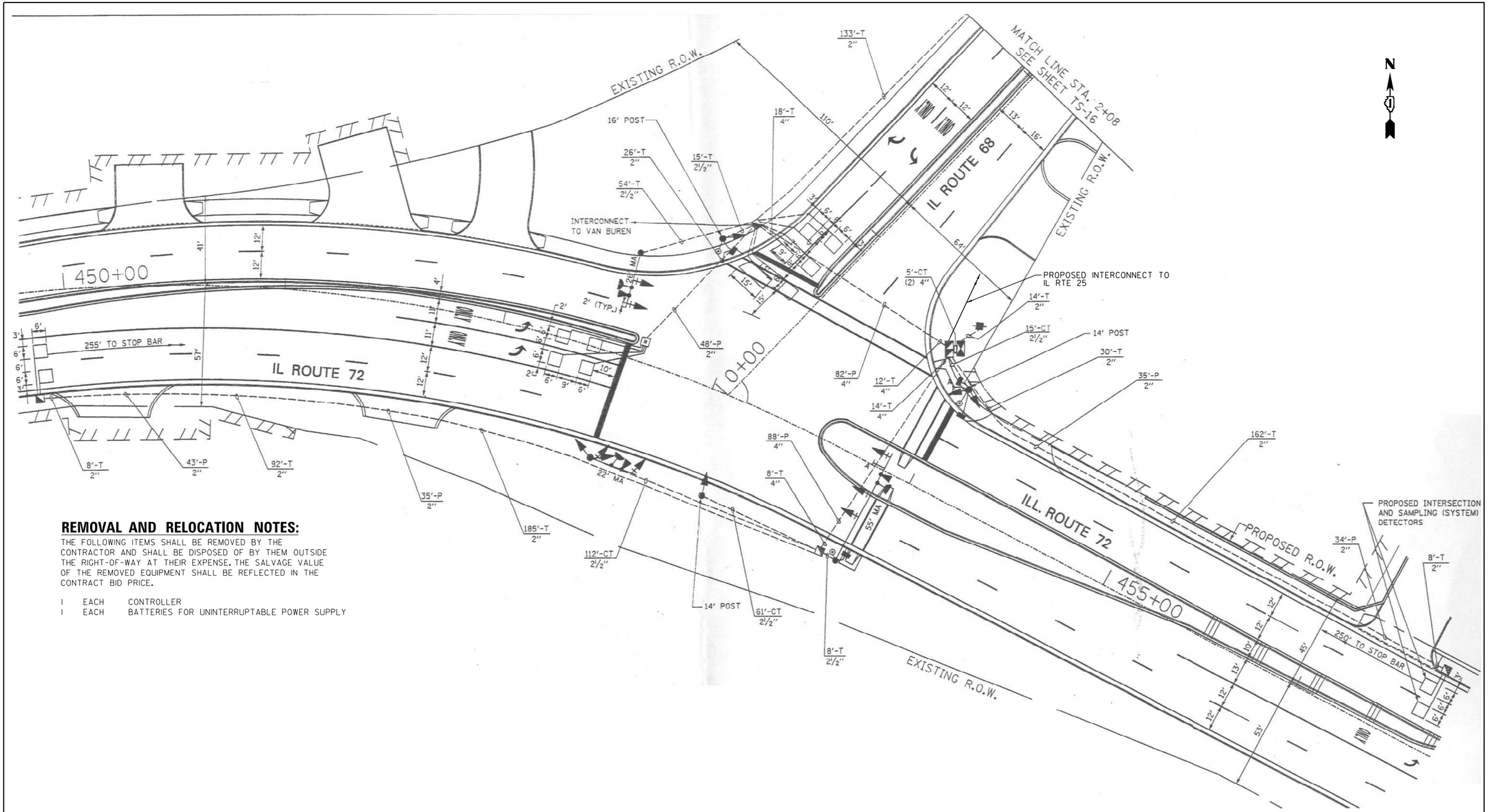
FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\016_IDOT DETAILS_8.dgn

USER NAME = $USER$	DESIGNED - LP/IP	REVISED - LP 07/01/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - LP	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - IP	REVISED -	
PLOT DATE = $DATE$	DATE - 10/01/2014	REVISED -	

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	16
	TS-02	CONTRACT NO. 62W92		
	ILLINOIS	FED. AID PROJECT		



REMOVAL AND RELOCATION NOTES:

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

1	EACH	CONTROLLER
1	EACH	BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 880
EAGLE 2A

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #1
IL RTE 72 (MAIN ST) AT IL RTE 68 (PENNY AVE)
INTERSECTION PLAN

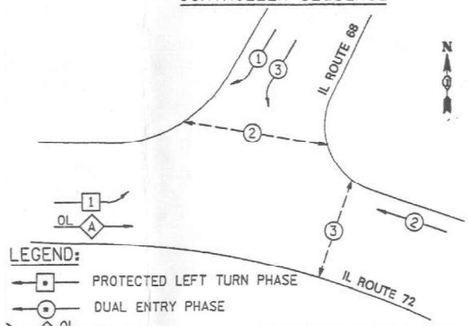
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	17
		CONTRACT NO. 62W92		

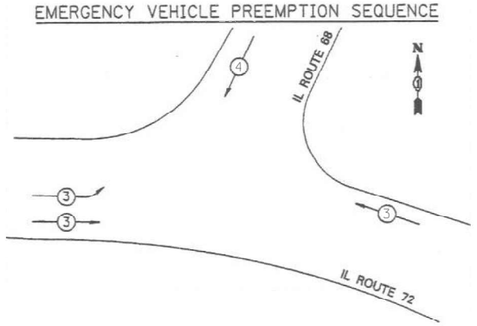
FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

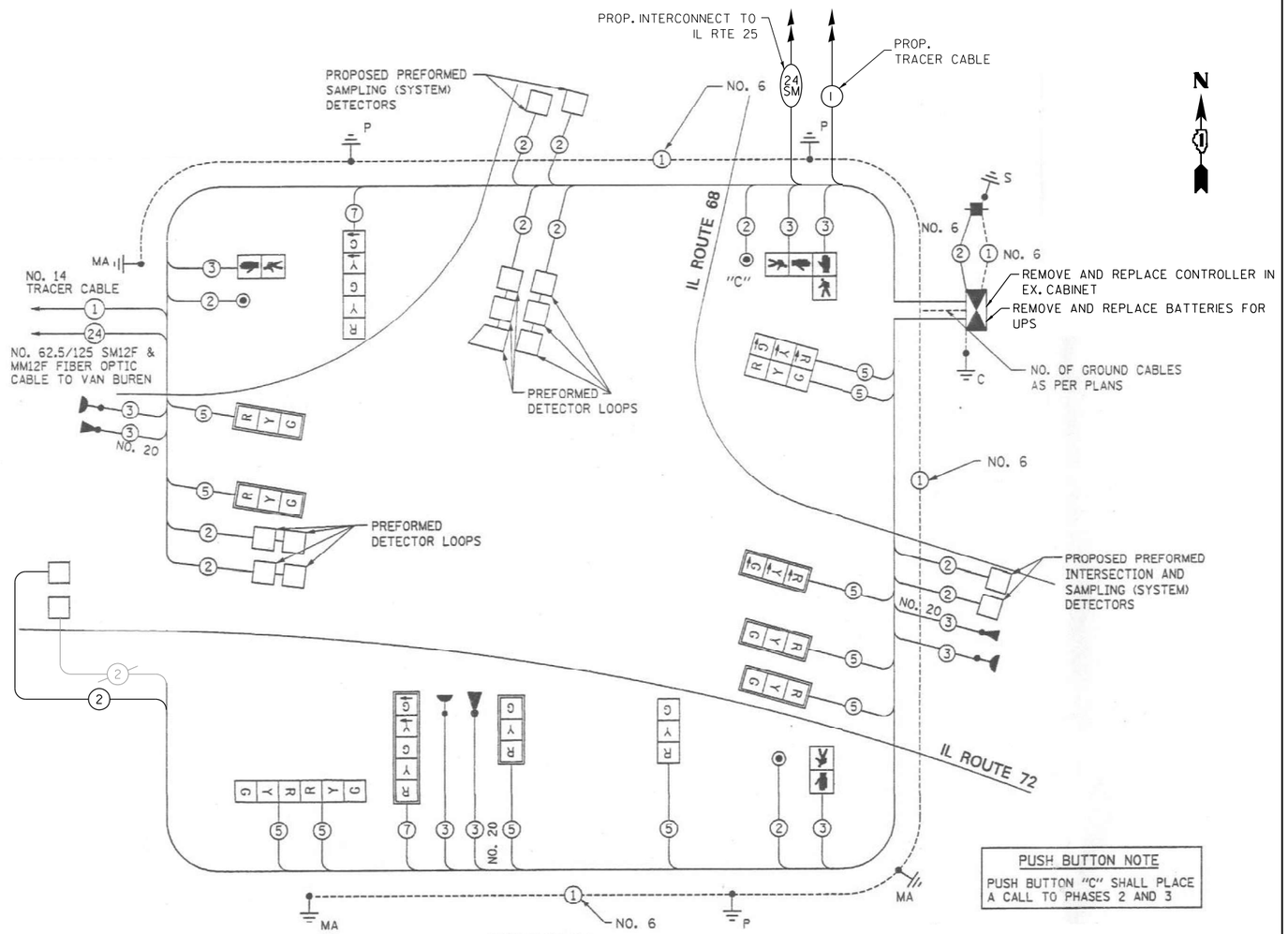
FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\035_IL Rte 72 at IL Rte 68_INT.dgn

CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE





CABLE PLAN
NOT TO SCALE

PUSH BUTTON NOTE

PUSH BUTTON "C" SHALL PLACE A CALL TO PHASES 2 AND 3

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL VOLTAGE
TYPE	NO. LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATION	
SIGNAL (RED)	13	135	17	0.50	110.5
(YELLOW)	13	135	25	0.25	81.25
(GREEN)	13	135	15	0.25	48.75
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	-
FLASHER				0.50	
				TOTAL =	445.3

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 West court / Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: CONTACT: Ms. Rose Pecoraro
PHONE: 630-424-5702
COMPANY: ComEd

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	509
INDUCTIVE LOOP DETECTOR	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

TS 880
EAGLE 2A

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS1\Project Work\CADD 62W92\CADD.Sheets\036_IL Rte 72 at IL Rte 68_CD.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

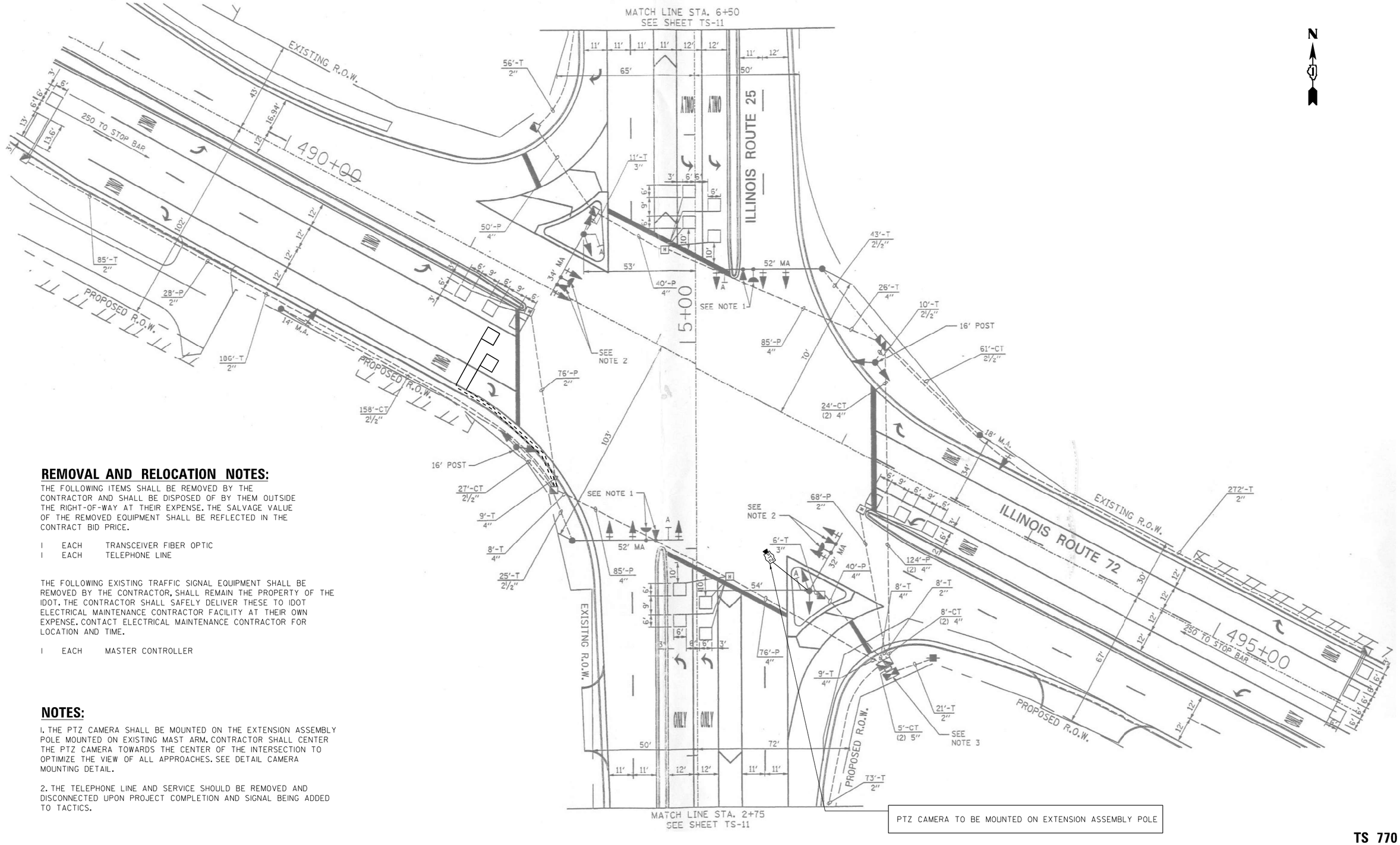
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #1
IL RTE 72 (MAIN ST) AT IL RTE 68 (PENNY AVE) CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	18
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT



REMOVAL AND RELOCATION NOTES:

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

1	EACH	TRANSCEIVER FIBER OPTIC
1	EACH	TELEPHONE LINE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

1	EACH	MASTER CONTROLLER

NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

2. THE TELEPHONE LINE AND SERVICE SHOULD BE REMOVED AND DISCONNECTED UPON PROJECT COMPLETION AND SIGNAL BEING ADDED TO TACTICS.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 770
IDOT TACTICS
SUBSYSTEM EAGLE 9P

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #2
IL RTE 72 (HIGGINS RD) AT IL RTE 25 (DUNDEE AVE)
INTERSECTION PLAN

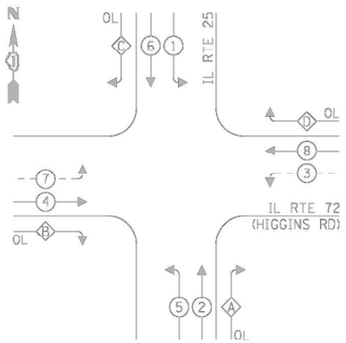
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	19
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\037_IL Rte 72 at IL Rte 25_INT.dgn

EXISTING CONTROLLER SEQUENCE



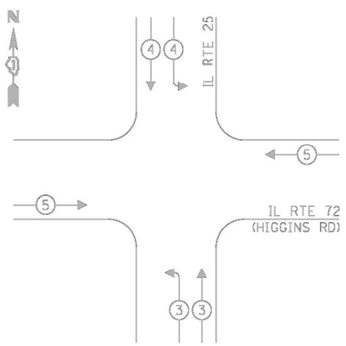
LEGEND:

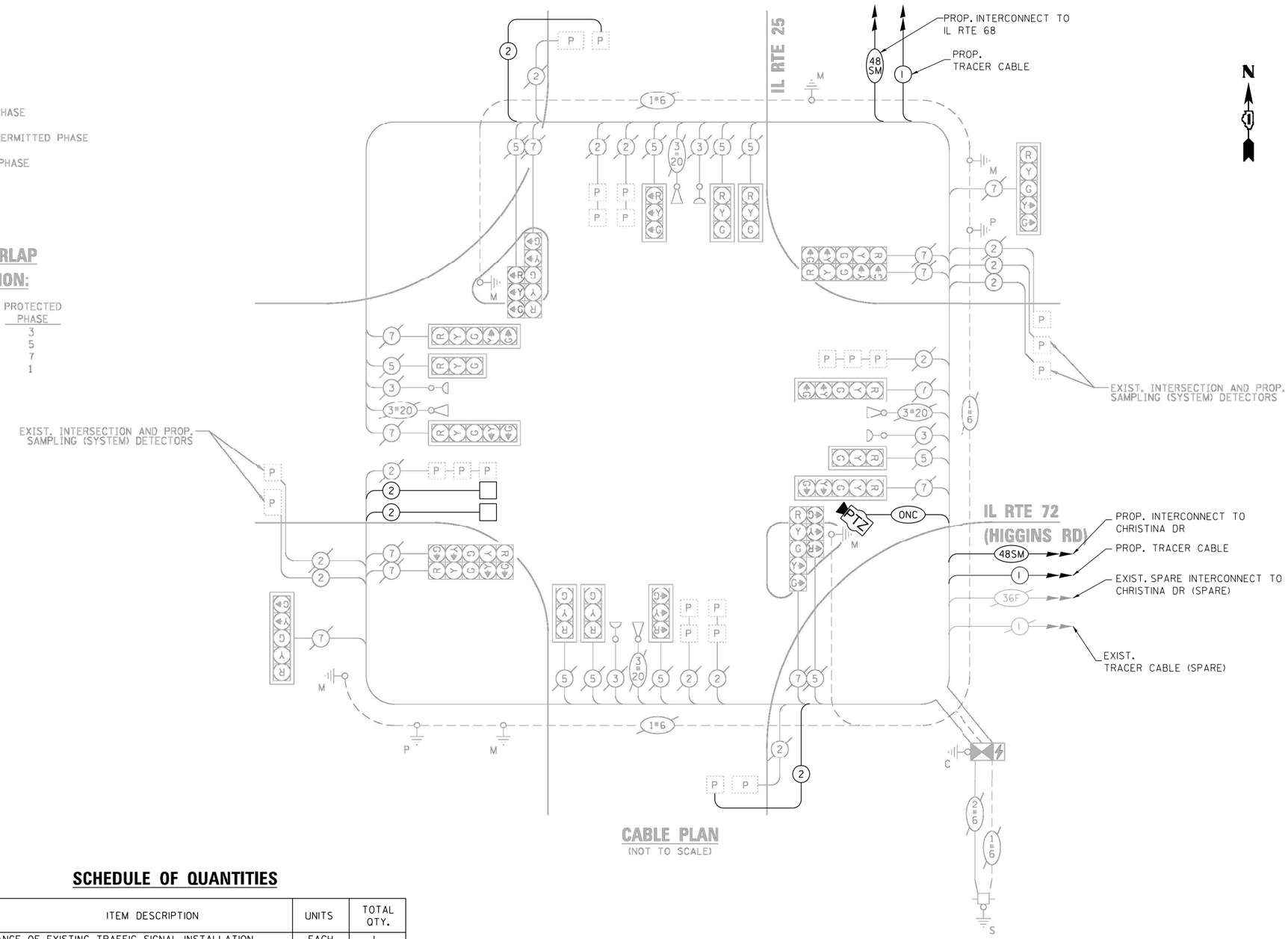
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	11	50	121.0
(YELLOW)	22	20	5	22.0
(GREEN)	22	12	45	118.8
PERMISSIVE ARROW	24	10	10	24.0
PED. SIGNAL	-	20	100	-
CONTROLLER	2	100	100	200.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	510.8

ENERGY COSTS TO:

VILLAGE OF EAST DUNDEE
120 BARRINGTON AVE
EAST DUNDEE, IL 60118

ENERGY SUPPLY: CONTACT: JOE STACHO
PHONE: (630) 424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 19231-70184

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	1462
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	FOOT	84
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	118
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1

TS 770
IDOT TACTICS
SUBSYSTEM EAGLE 9P

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #2
IL RTE 72 (HIGGINS RD) AT IL RTE 25 (DUNDEE AVE) CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	20
		CONTRACT NO. 62W92		

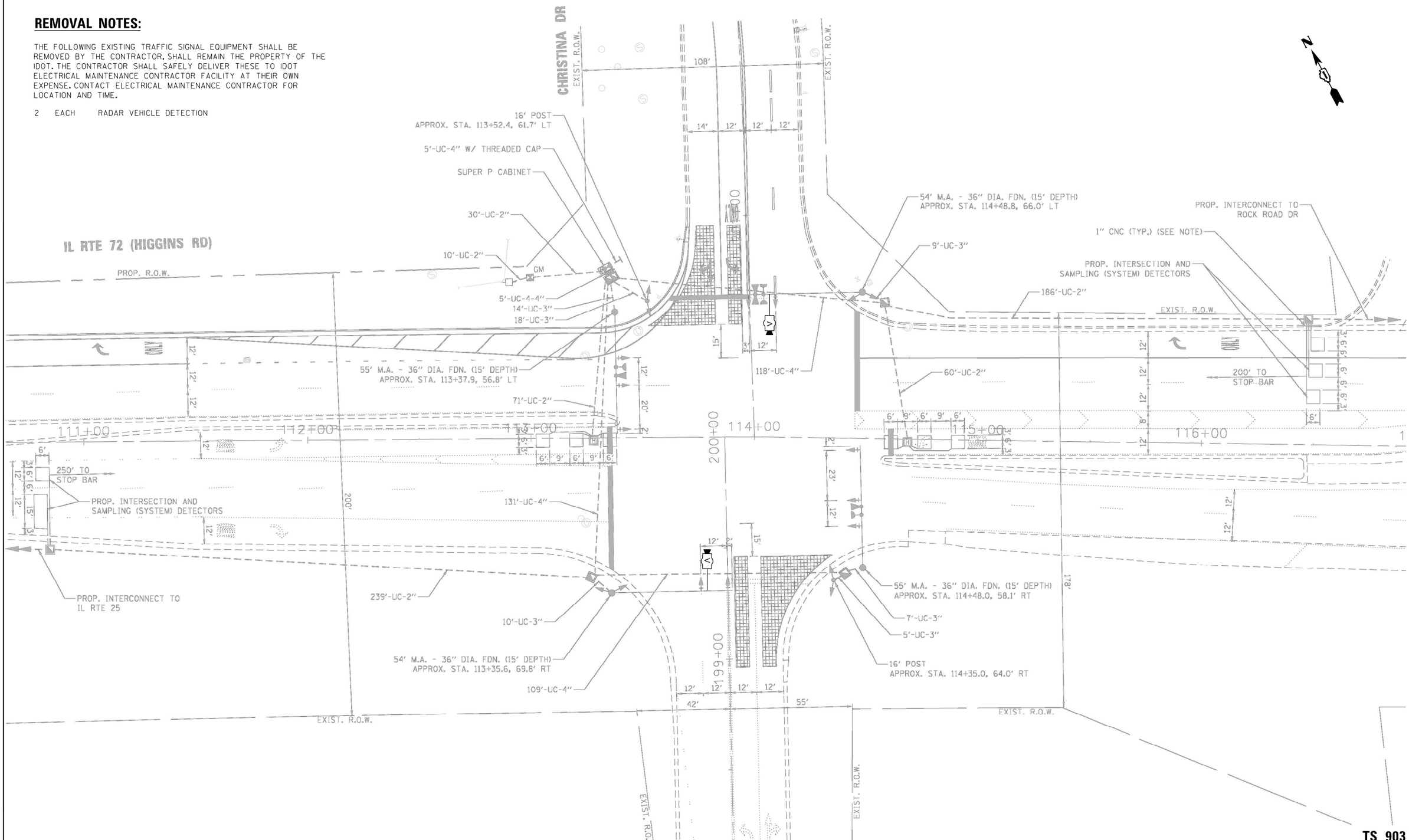
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT Dl Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\038_IL Rte 72 at IL Rte 25_CD.dgn

REMOVAL NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

2 EACH RADAR VEHICLE DETECTION



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 903
IDOT TACTICS
SUBSYSTEM EAGLE 9P

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #3
IL RTE 72 (HIGGINS RD) AT CHRISTINA DR
INTERSECTION PLAN

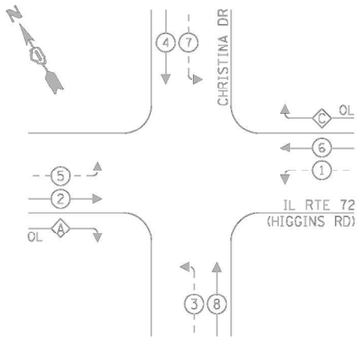
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	21
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\039_IL Rte 72 at Christina Dr_INT.dgn

PROPOSED CONTROLLER SEQUENCE



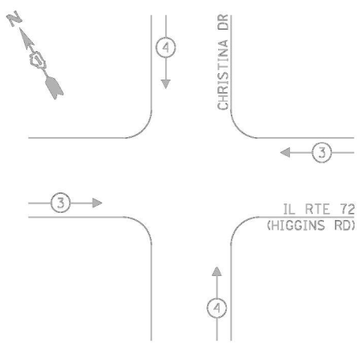
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



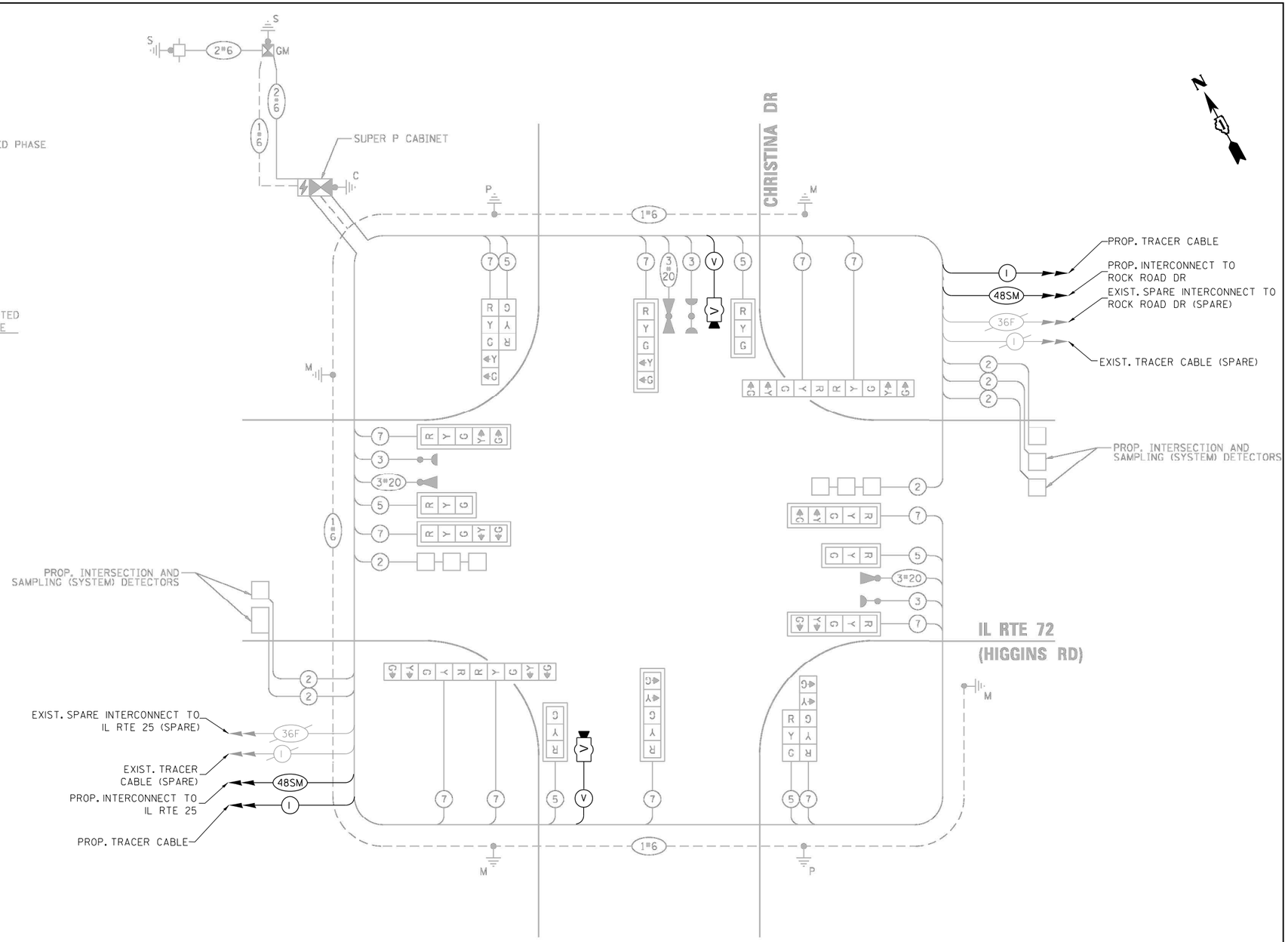
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
PERMISSIVE ARROW	24	10	10	24.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	513.2

ENERGY COSTS TO:

VILLAGE OF EAST DUNDEE
120 BARRINGTON AVE
EAST DUNDEE, IL 60118

ENERGY SUPPLY: CONTACT: JOE STACHO
PHONE: (630) 424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 19231-70193



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

TS 903
IDOT TACTICS
SUBSYSTEM EAGLE 9P

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

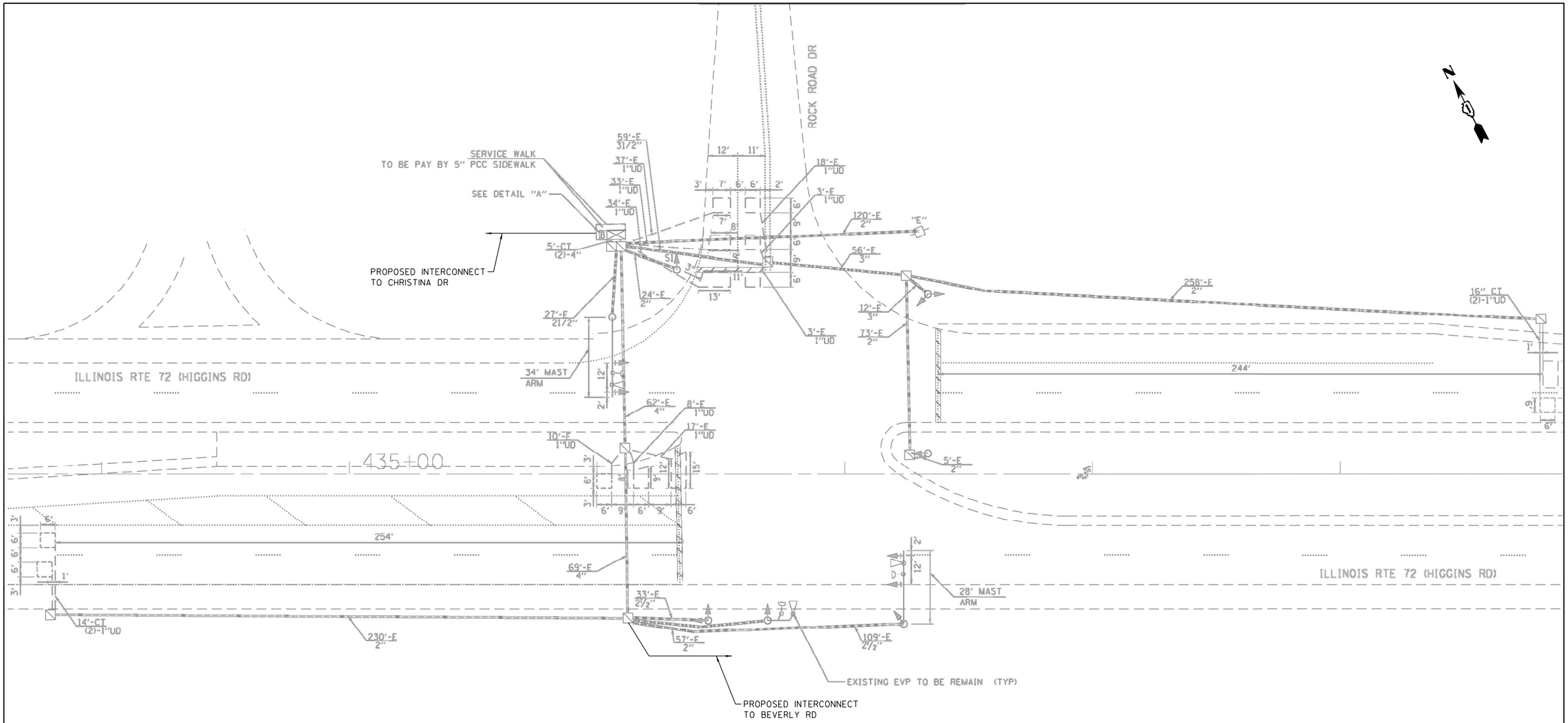
LOCATION #3
IL RTE 72 (HIGGINS RD) AT CHRISTINA DR CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	22
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\040_IL Rte 72 at Christina Dr_CD.dgn



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 905
IDOT TACTICS
SUBSYSTEM EAGLE 9P

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #4
IL RTE 72 (HIGGINS RD) AT ROCK ROAD DR
INTERSECTION PLAN

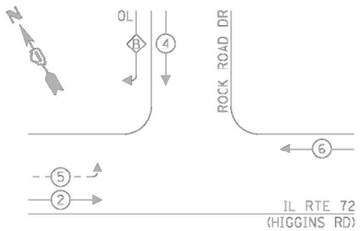
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	23
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phl TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\041_IL Rte 72 at Rock Road Dr_INT.dgn

EXISTING CONTROLLER SEQUENCE



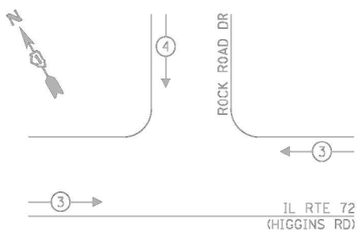
LEGEND:

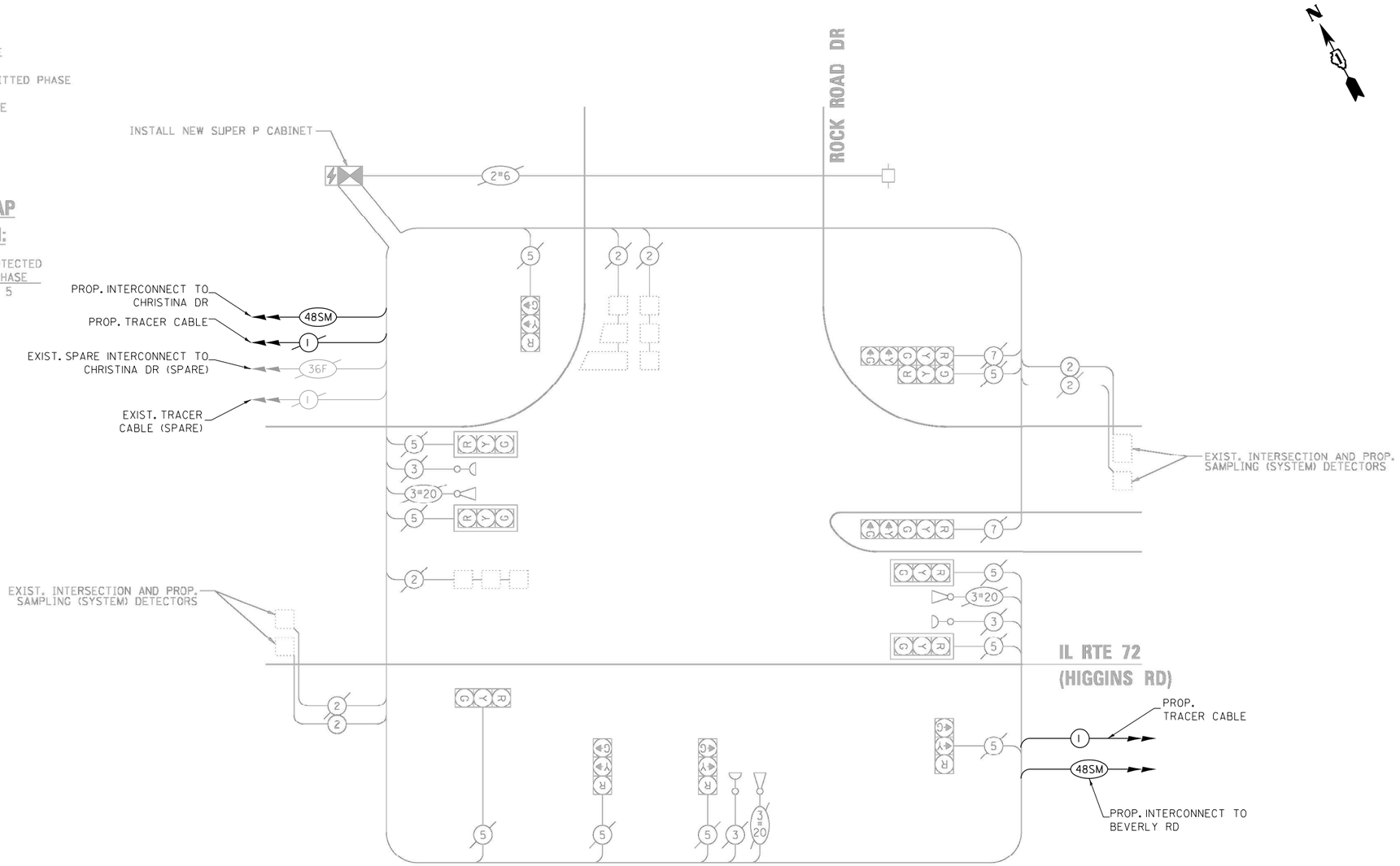
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	271.8

ENERGY COSTS TO:

VILLAGE OF EAST DUNDEE
120 BARRINGTON AVE
EAST DUNDEE, IL 60118

ENERGY SUPPLY: CONTACT: JOE STACHO
PHONE: (630) 424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 19231-70193

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1

TS 905
IDOT TACTICS
SUBSYSTEM EAGLE 9P

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

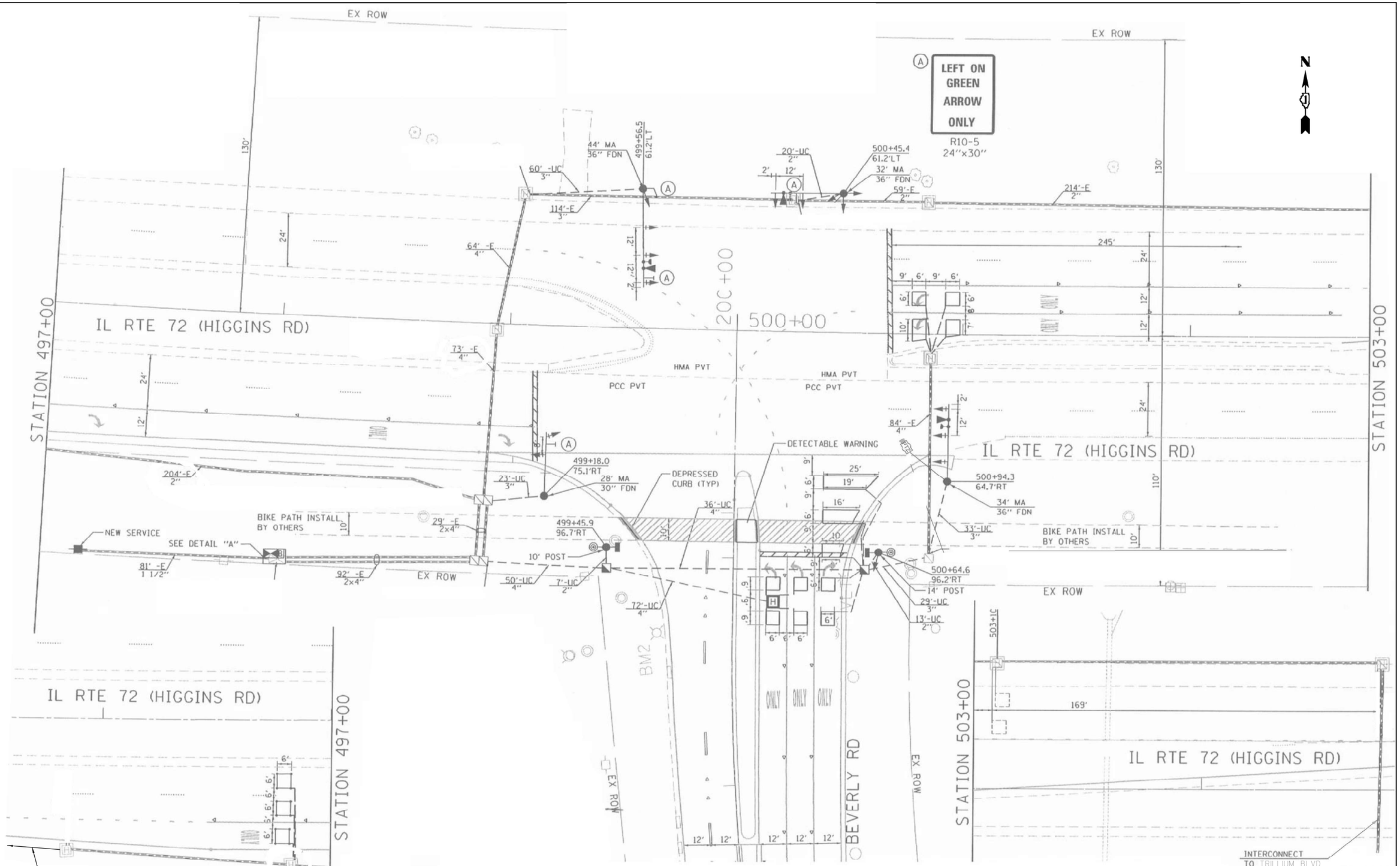
LOCATION #4
IL RTE 72 (HIGGINS RD) AT ROCK ROAD DR CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	24
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\042_IL Rte 72 at Rock Road Dr_CD.dgn



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 3340
IDOT CENTRACS
FORMER ECON 30

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #5
IL RTE 72 (HIGGINS RD) AT BEVERLY RD
INTERSECTION PLAN

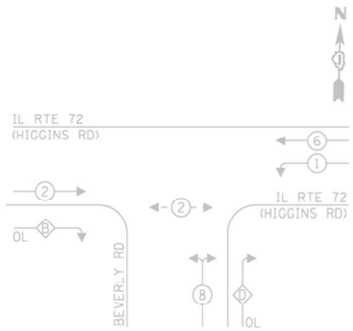
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	25
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\043_IL Rte 72 at Beverly Rd_INT.dgn

EXISTING CONTROLLER SEQUENCE



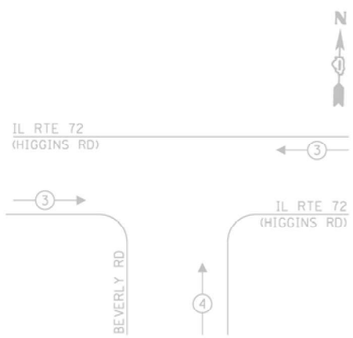
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	8
D	=	8	+	1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

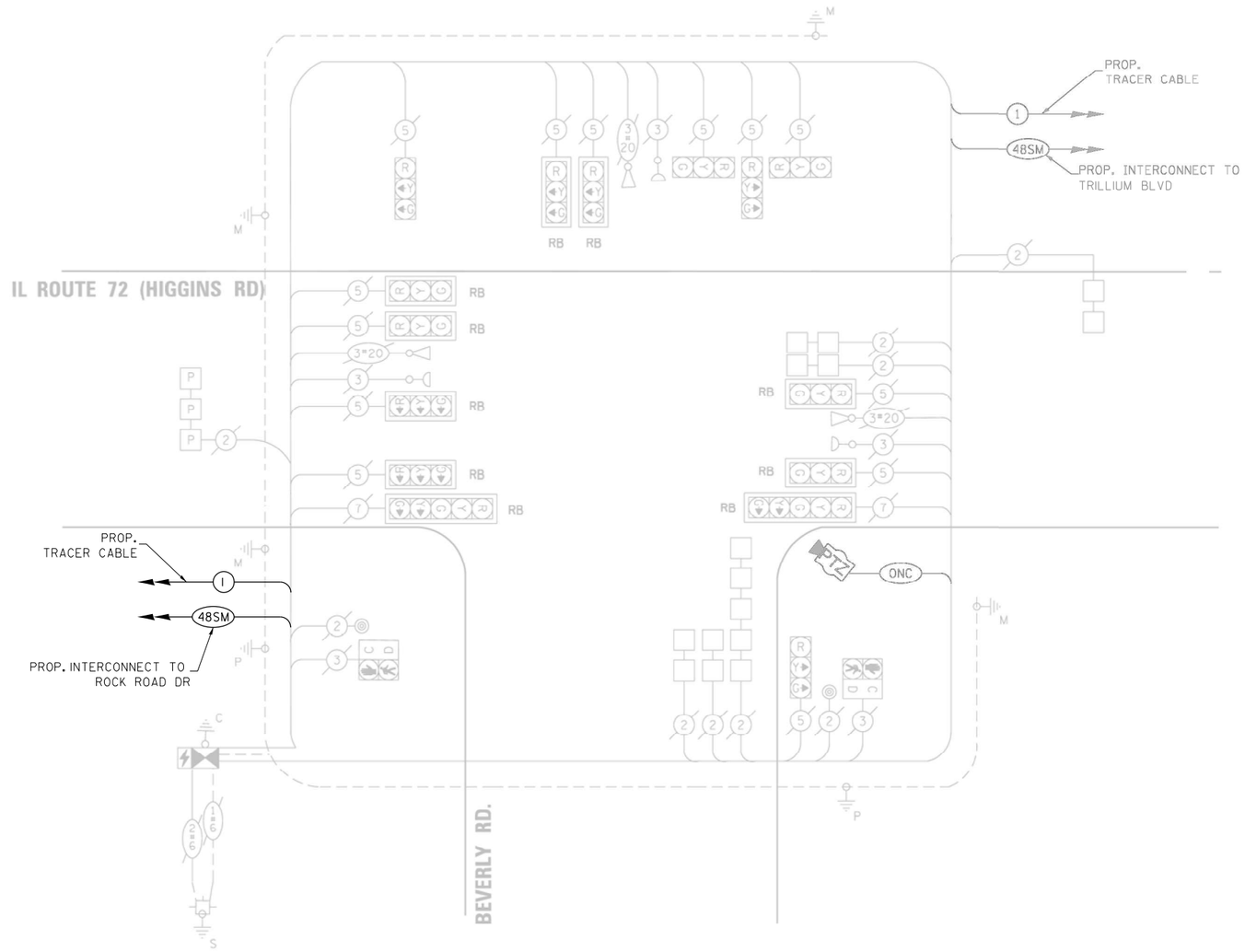


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	83
(YELLOW)	15	20	5	15
(GREEN)	15	12	45	81
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	2	20	100	40
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	348

ENERGY COSTS TO:

HOFFMAN STATES
1900 HASSELL ROAD
HOFFMAN STATES, IL 60169
ENERGY SUPPLY: CONTACT: LASHAWN LAO
PHONE: (708) 235-2346
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 38310-05061



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

TS 3340
IDOT CENTRACS
SUBSYSTEM ECON 90

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phl TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\044_IL Rte 72 at Beverly Rd.CD.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #5
IL RTE 72 (HIGGINS RD) AT BEVERLY RD CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	26
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

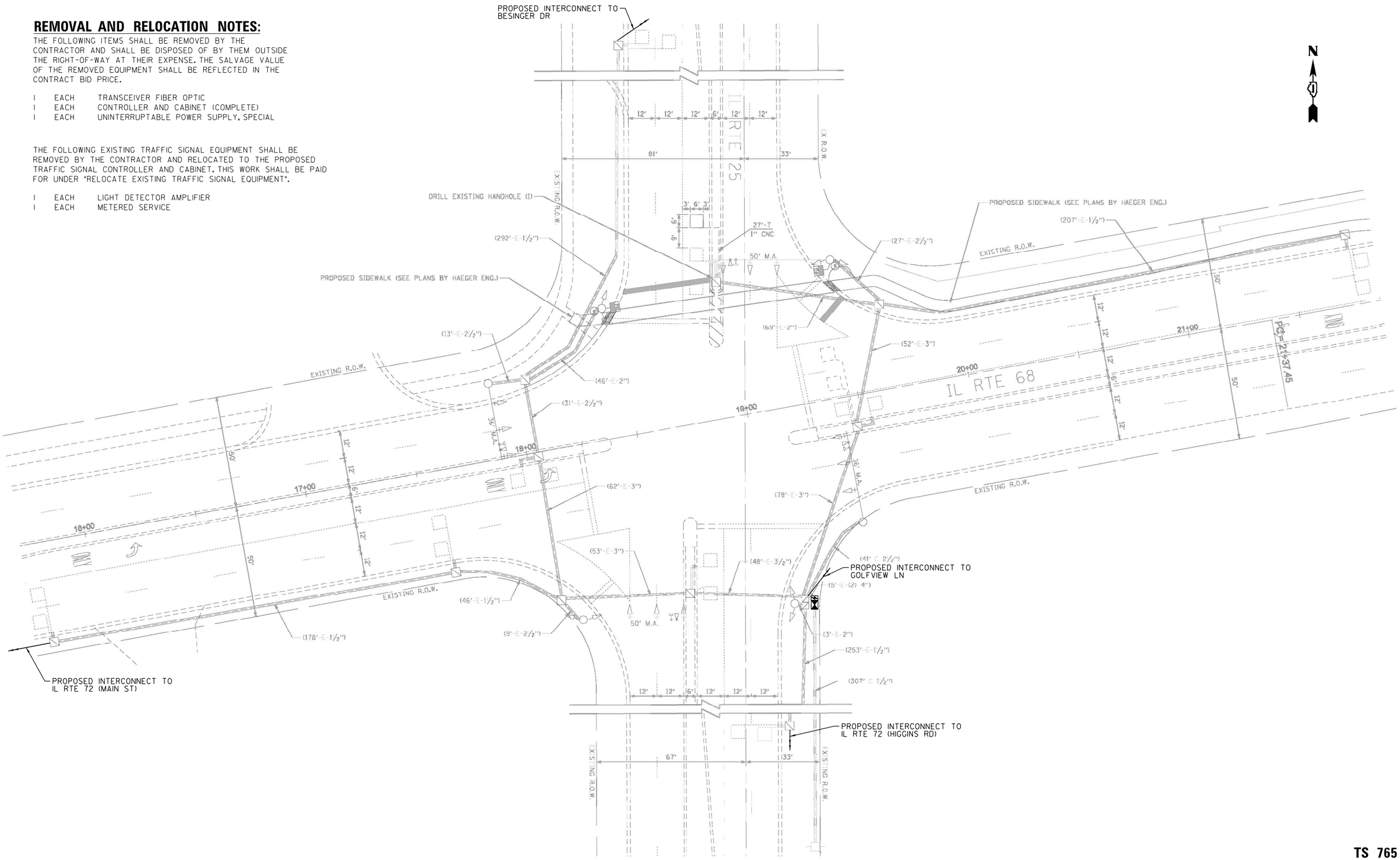
REMOVAL AND RELOCATION NOTES:

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

1	EACH	TRANSCEIVER FIBER OPTIC
1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	METERED SERVICE



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 765
IDOT TACTICS
SUBSYSTEM EAGLE 9P

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #6
IL RTE 25 AT IL RTE 68
INTERSECTION PLAN

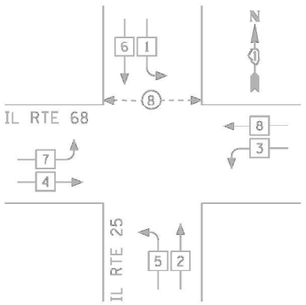
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	27
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\045_IL Rte 25 at IL Rte 68_INT.dgn

EXISTING CONTROLLER SEQUENCE

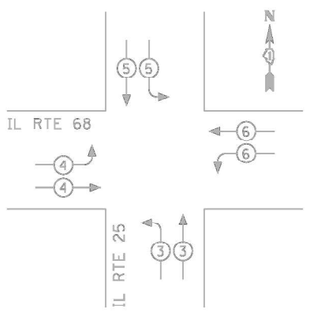


PHASE DESIGNATION DIAGRAM

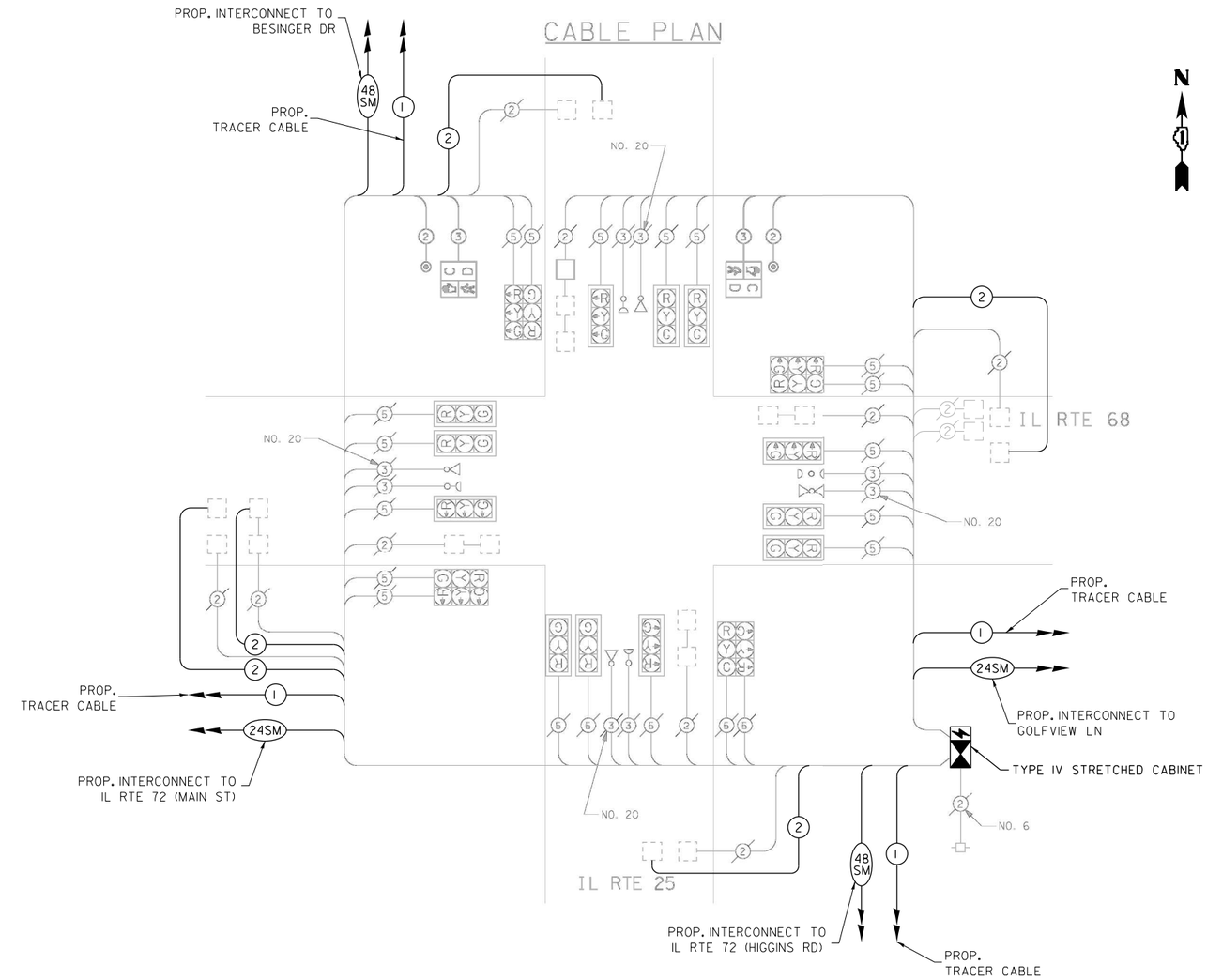
LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN



I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS ×	WATTAGE INCAND.	WATTAGE LED	× %OPERATION	
SIGNAL (RED)	20		17	0.50	170.0
(YELLOW)	20		25	0.25	125.0
(GREEN)	20		15	0.25	75.0
ARROW	-		12	0.10	-
PED. SIGNAL	2		25	1.00	50.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN				0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	520.0

VILLAGE OF EAST DUNDEE
120 Barrington Ave.
East Dundee, IL 60118
ENERGY SUPPLY CONTACT:
PHONE: ( )
COMPANY: COMED

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	1765
INDUCTIVE LOOP DETECTOR	EACH	14
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER III (NETWORK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

TS 765
IDOT TACTICS
SUBSYSTEM EAGLE 9P

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\046_IL Rte 25 at IL Rte 68_CD.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #6
IL RTE 25 AT IL RTE 68 CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

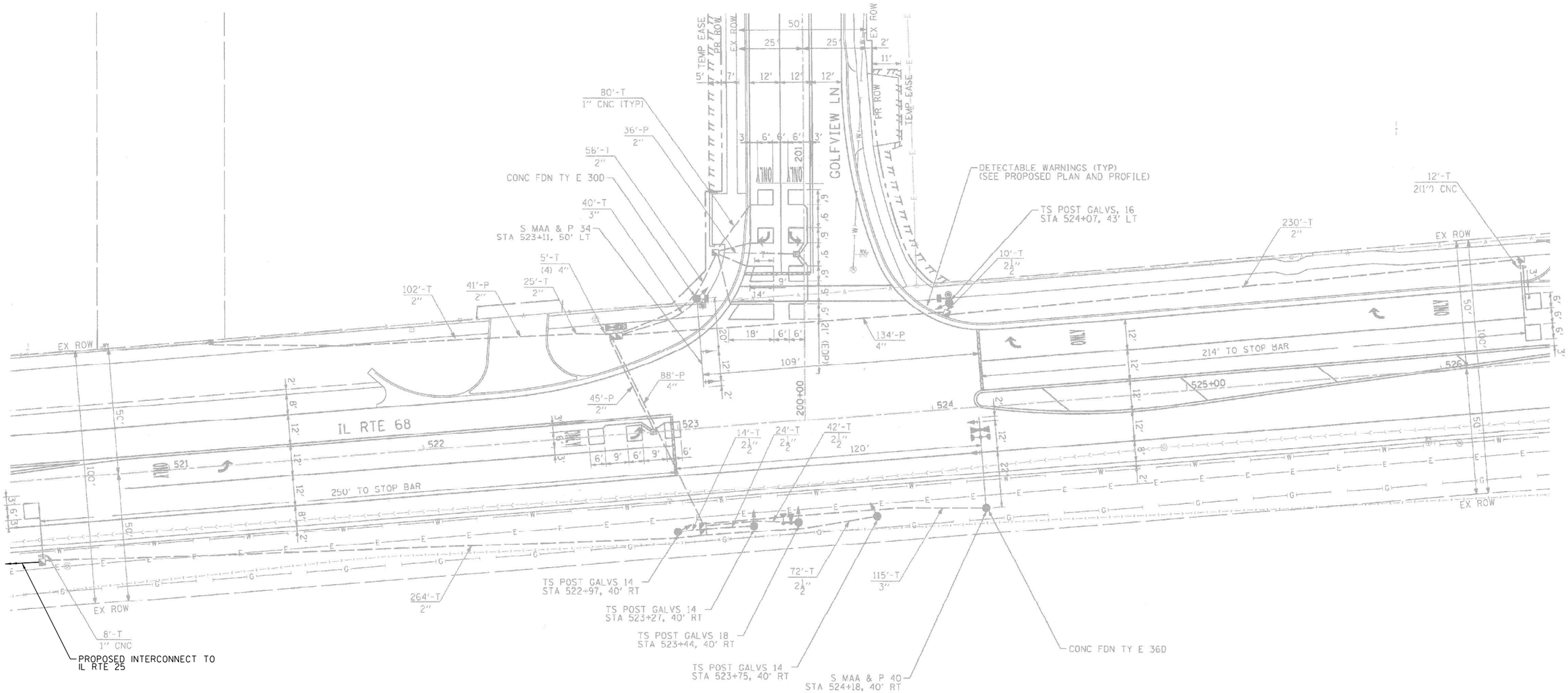
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	28
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

REMOVAL AND RELOCATION NOTES:

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

1	EACH	CONTROLLER
1	EACH	BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 883
IDOT TACTICS
SUBSYSTEM EAGLE 9P

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #7
IL RTE 68 AT GOLFVIEW LN
INTERSECTION PLAN

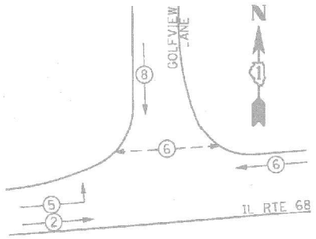
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	29
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS(1)\Project Work\CADD 62W92\CADD_Sheets\047_IL Rte 68 at Golfview Ln_INT.dgn

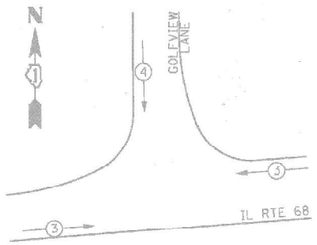
CONTROLLER SEQUENCE



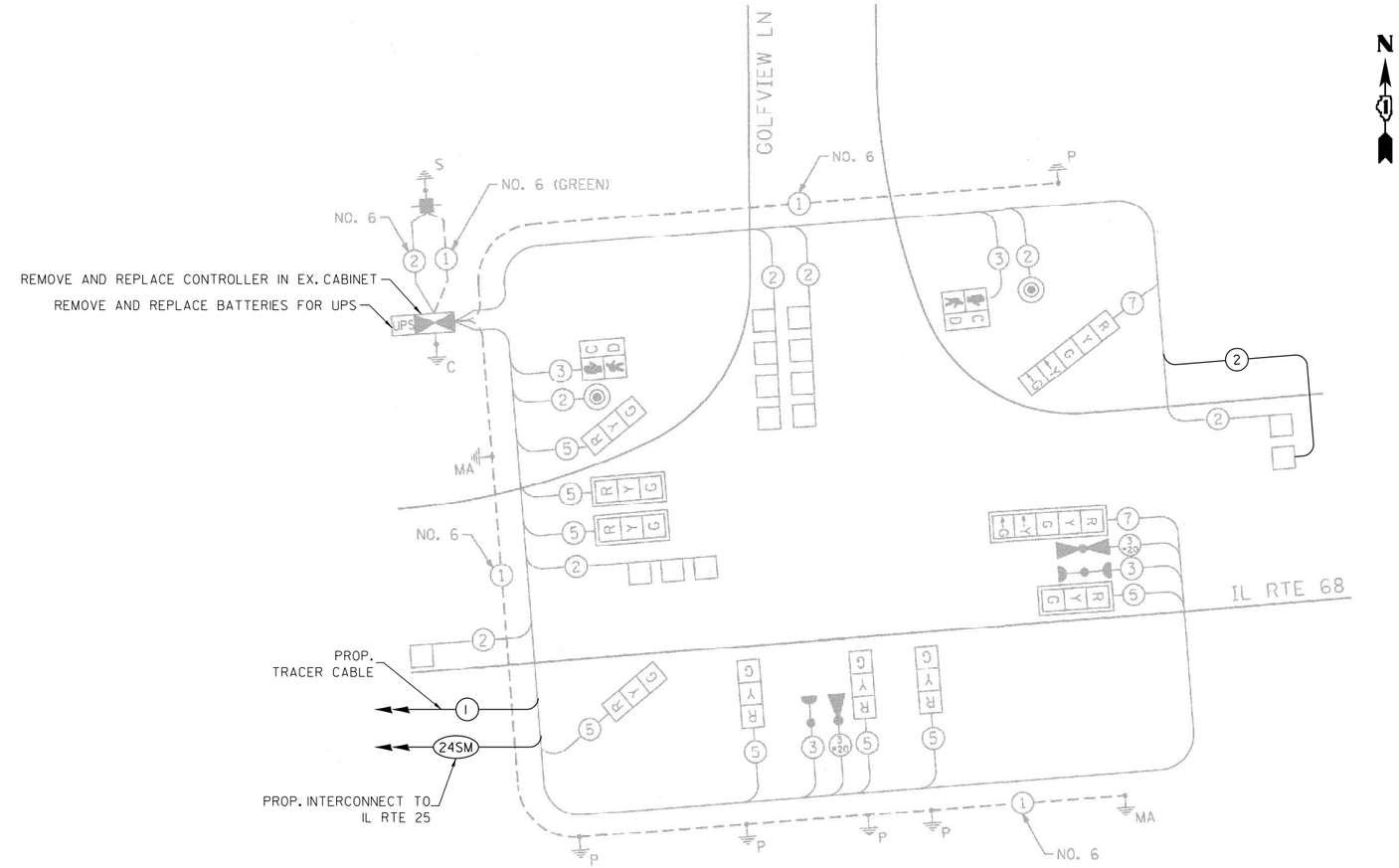
CONTROLLER SEQUENCE LEGEND

- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERRING TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
PROPOSED EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	←	↓



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	400
INDUCTIVE LOOP DETECTOR	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II(DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10		17	0.50	85
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW (YELLOW)	2		12	0.10	2.40
ARROW (GREEN)	2		12	0.10	2.40
PEDESTRIAN SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
UPS	1		25	1.00	25
				TOTAL =	364.80

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: KATHY NYSTROM
PHONE: (847) 608-2331
COMPANY: COMMONWEALTH EDISON

TS 883
IDOT TACTICS
SUBSYSTEM EAGLE 9P

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #7
IL RTE 68 AT GOLFVIEW LN CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	30

CONTRACT NO. 62W92

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\048_IL Rte 68 at Golfview Ln_CD.dgn

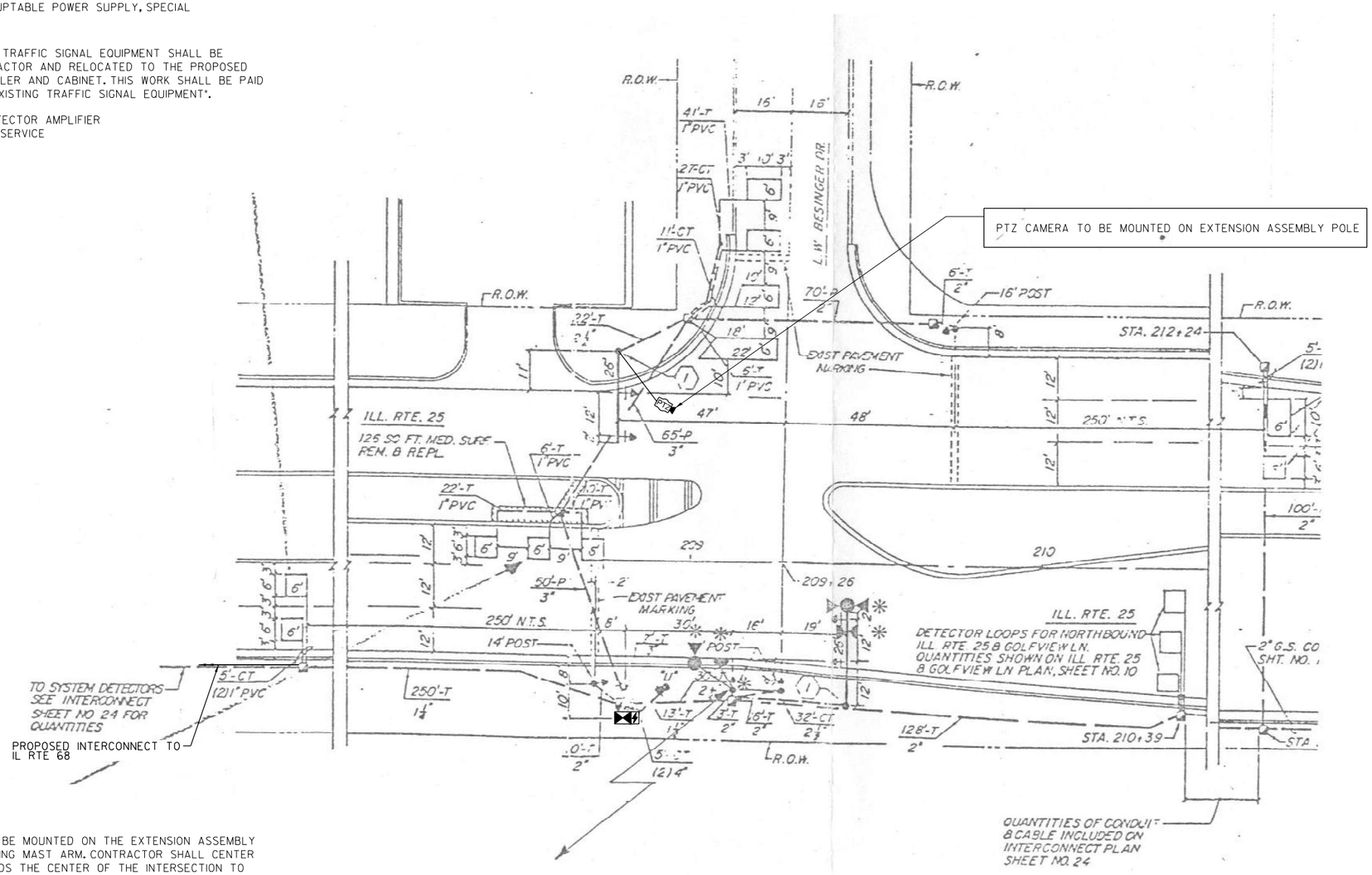
REMOVAL AND RELOCATION NOTES:

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

1	EACH	TRANSCEIVER FIBER OPTIC
1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	METERED SERVICE



NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 4315
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #8
IL RTE 25 AT BESINGER DR
INTERSECTION PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

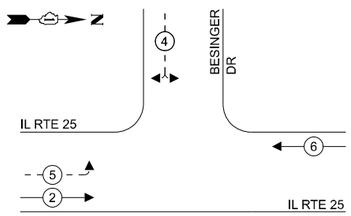
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	31

CONTRACT NO. 62W92

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\049_IL Rte 25 at Besinger Dr_INT.dgn

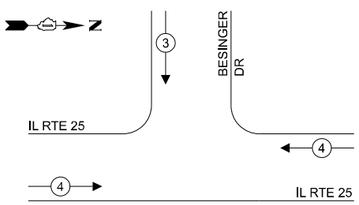
CONTROLLER SEQUENCE

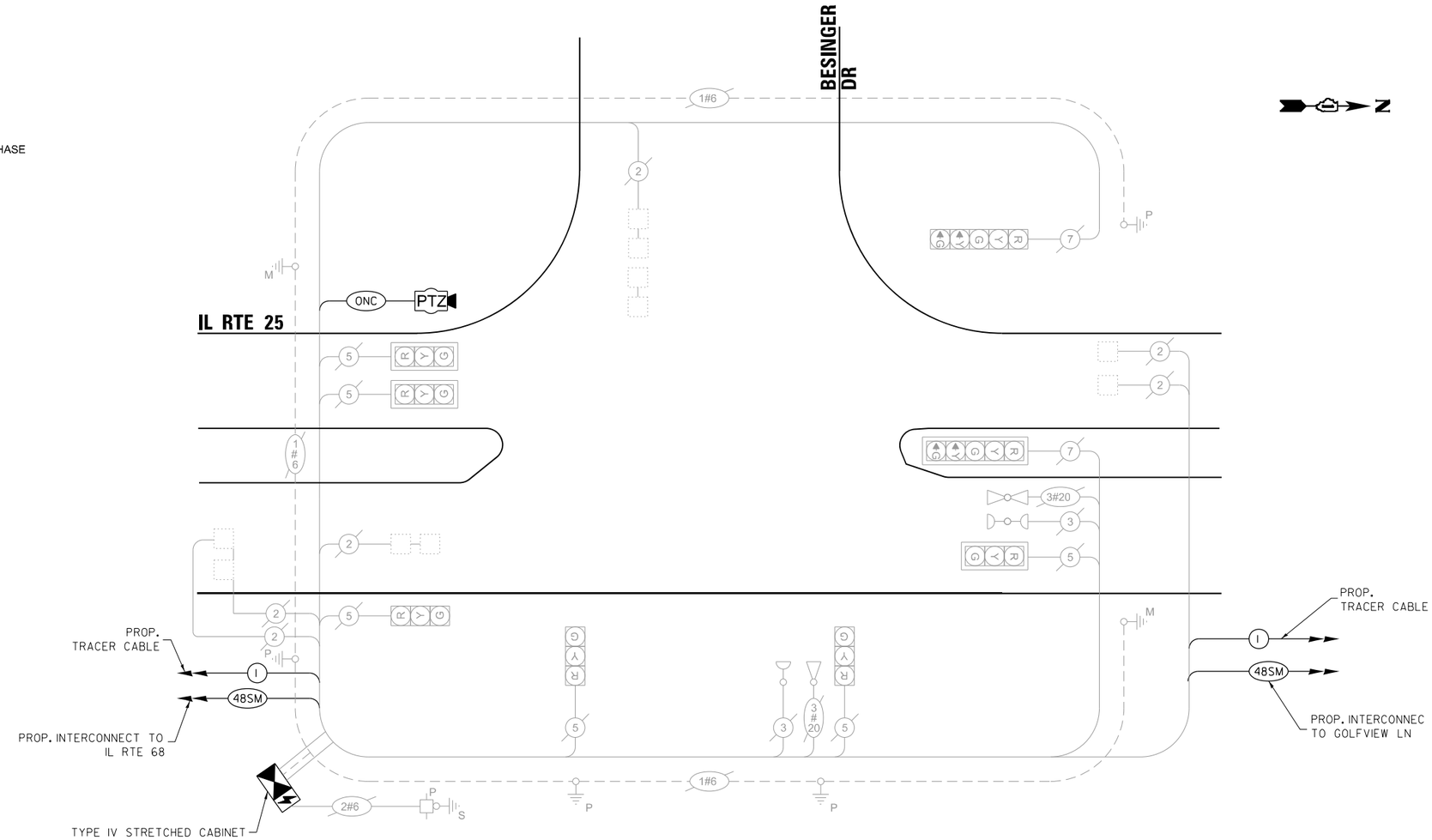


LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

EMERGENCY VEHICLE PREEMPTION SEQUENCE





CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3 - SECTION	6	11	66.0
4 - SECTION	-	14	-
5 - SECTION	2	13	26.0
PROGRAMMABLE SIGNALS			
3 - SECTION	-	-	-
4 - SECTION	-	-	-
5 - SECTION	-	-	-
PED. SIGNAL	-	15	-
CONTROLLER	1	150	150.0
MASTER CONTROLLER	-	100	-
UPS	1	25	25.0
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35.0
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			302.0
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			907.0

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	6
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	208
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1

TS 4315
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #8
IL RTE 25 AT BESINGER DR CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	32
		CONTRACT NO. 62W92		

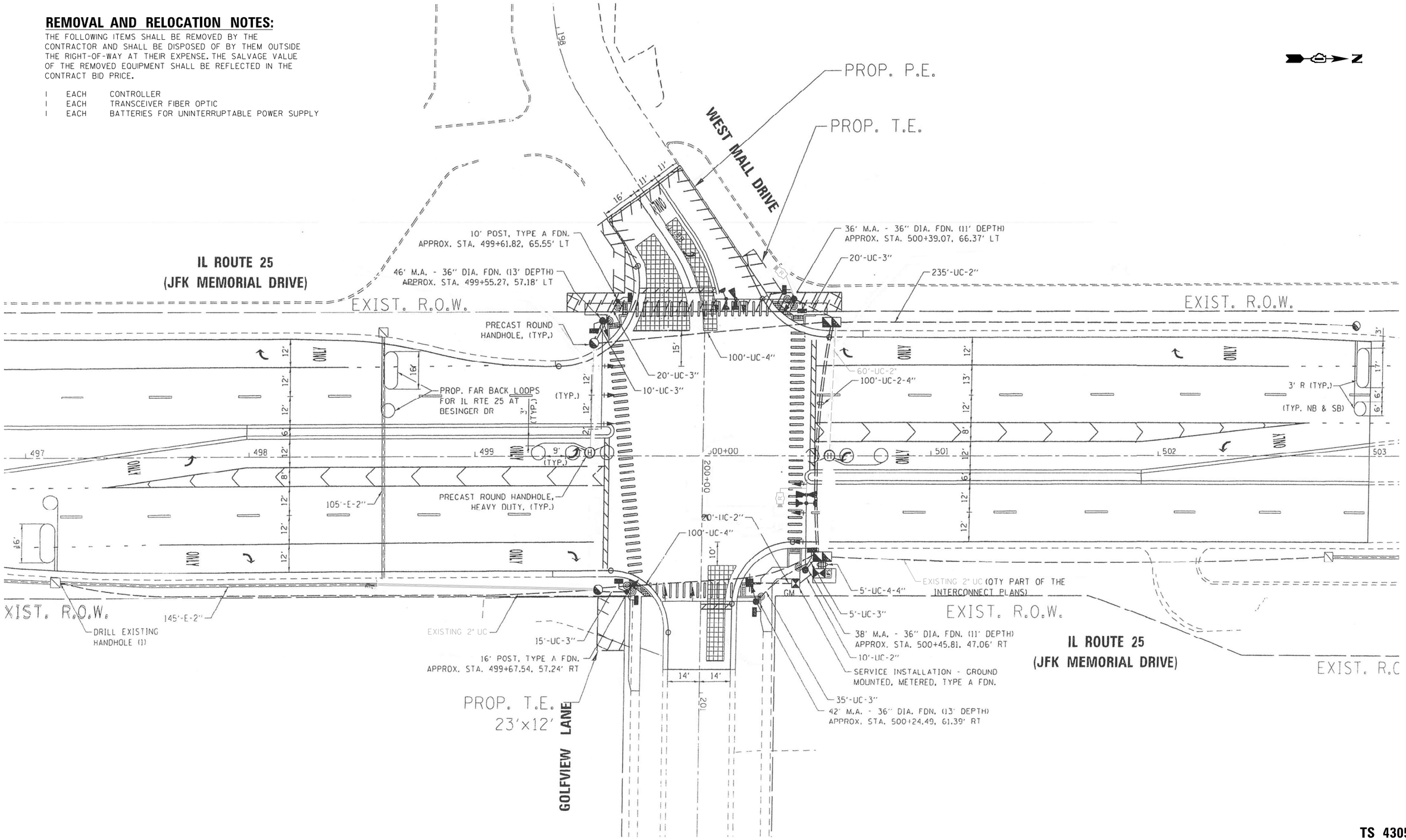
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\058_IL Rte 25 at Besinger Dr_CD.dgn

REMOVAL AND RELOCATION NOTES:

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

1	EACH	CONTROLLER
1	EACH	TRANSCEIVER FIBER OPTIC
1	EACH	BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 4305
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #9
IL RTE 25 AT GOLFVIEW LN
INTERSECTION PLAN

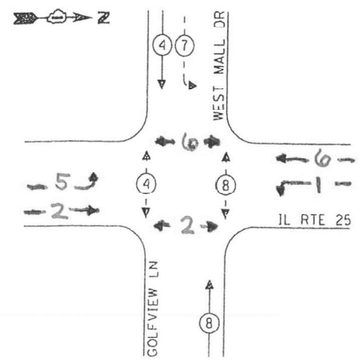
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	33
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. . | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\051_IL Rte 25 at Golfview Ln_INT.dgn

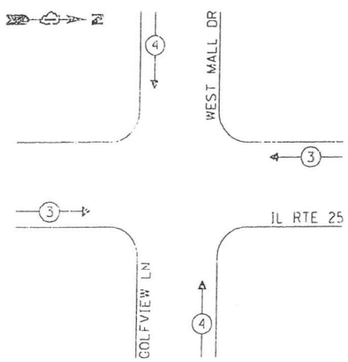
PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



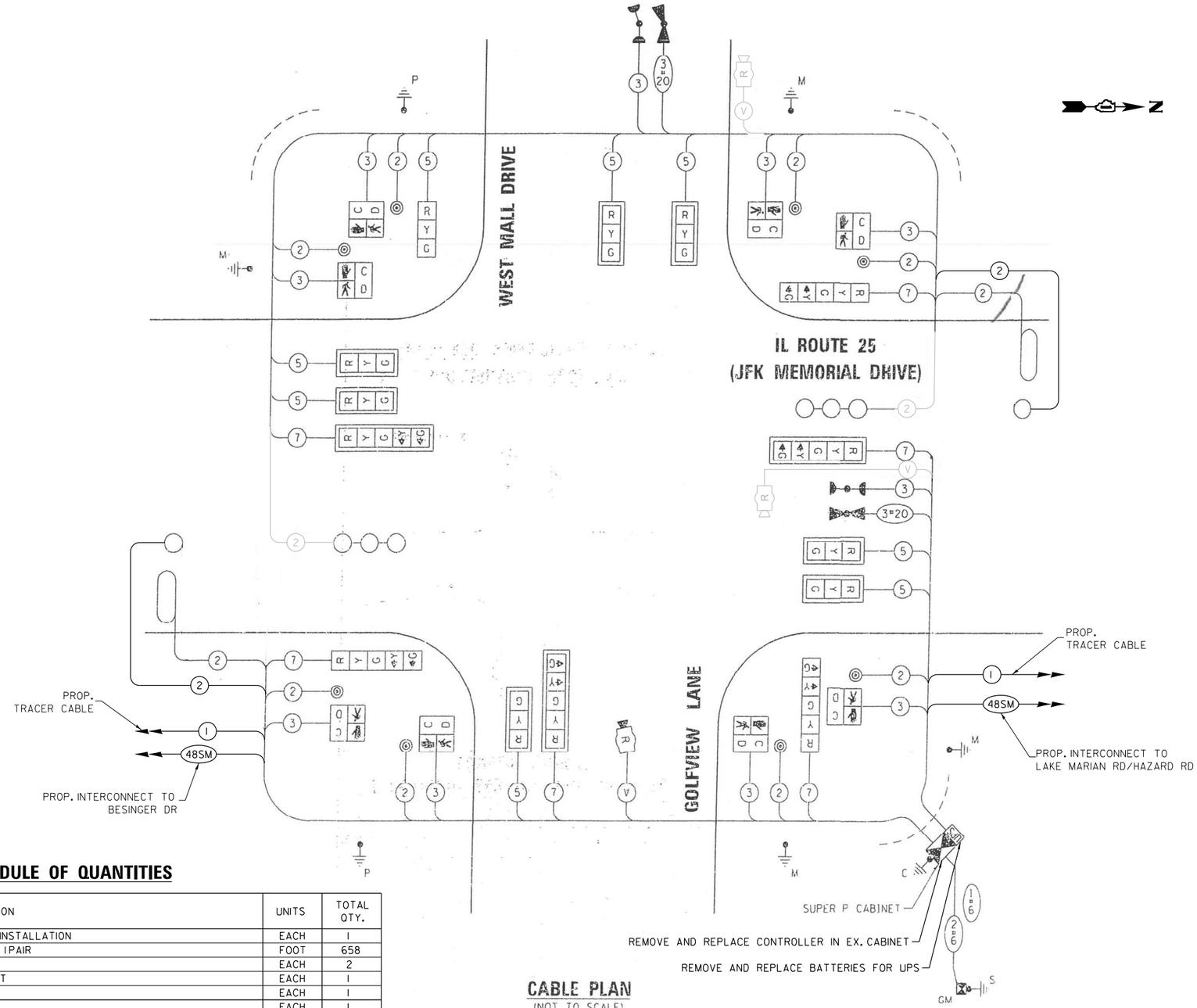
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	463.6

ENERGY COSTS TO:

VILLAGE OF CARPENTERSVILLE
1200 L.W. BESINGER DR
CARPENTERSVILLE, IL 60110

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	658
INDUCTIVE LOOP DETECTOR	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

TS 4305
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

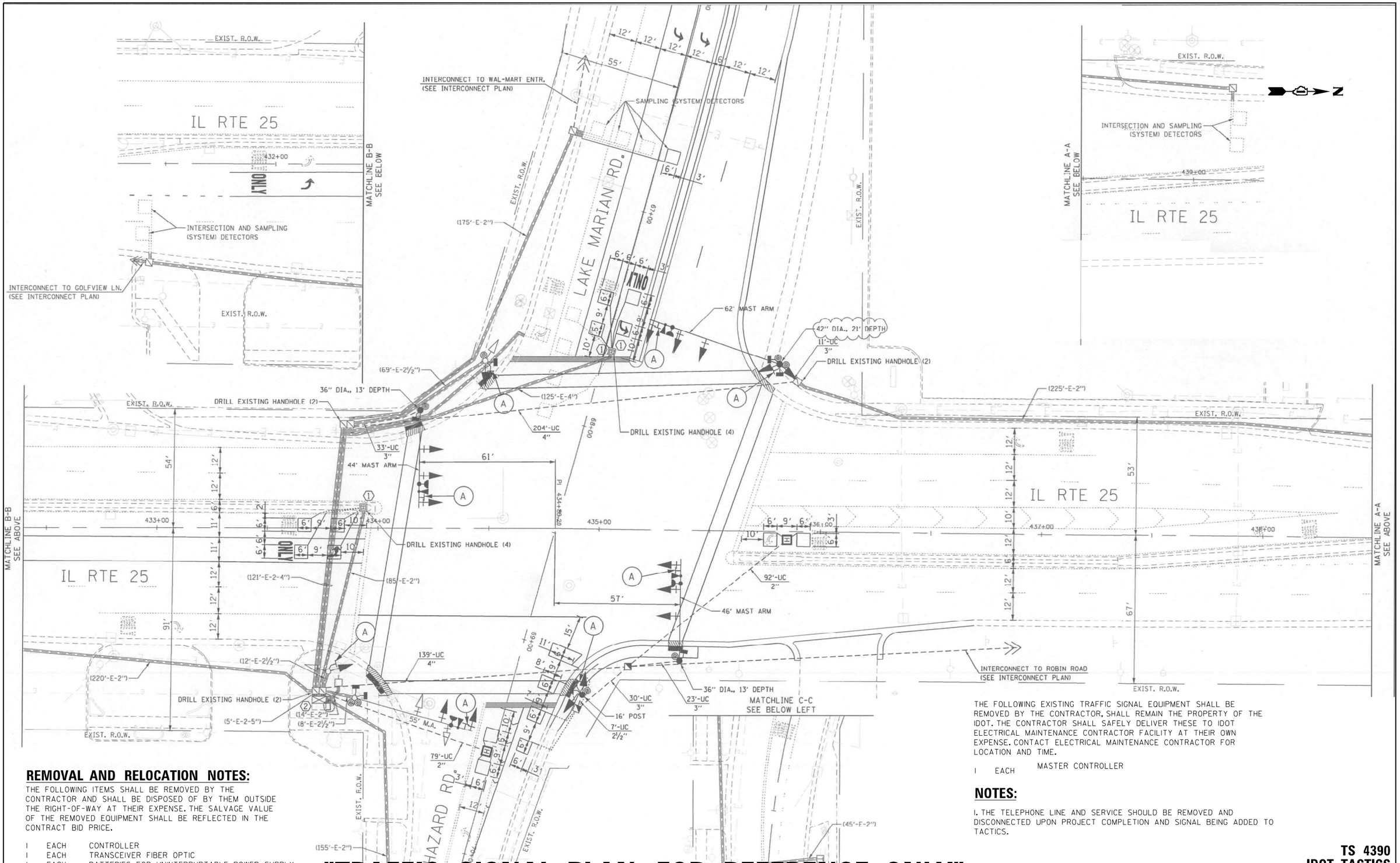
LOCATION #9
IL RTE 25 AT GOLFVIEW LN CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	34
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var PhI TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\0852_IL Rte 25 at Golfview Ln_CD.dgn



REMOVAL AND RELOCATION NOTES:

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

1	EACH	CONTROLLER
1	EACH	TRANSCEIVER FIBER OPTIC
1	EACH	BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY
1	EACH	TELEPHONE LINE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

1	EACH	MASTER CONTROLLER

NOTES:

1. THE TELEPHONE LINE AND SERVICE SHOULD BE REMOVED AND DISCONNECTED UPON PROJECT COMPLETION AND SIGNAL BEING ADDED TO TACTICS.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 4390
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #10
IL RTE 25 AT LAKE MARIAN RD
INTERSECTION PLAN

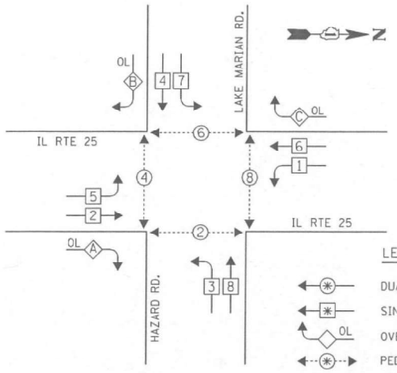
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	35
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. . | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS(1)\Project Work\CADD 62W92\CADD_Sheets\053_IL Rte 25 at Lake Marian Rd_INT.dgn

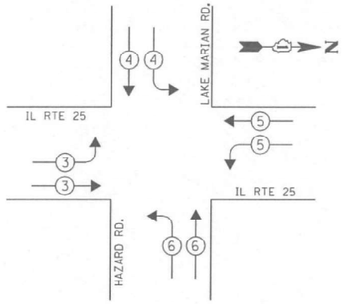
CONTROLLER SEQUENCE

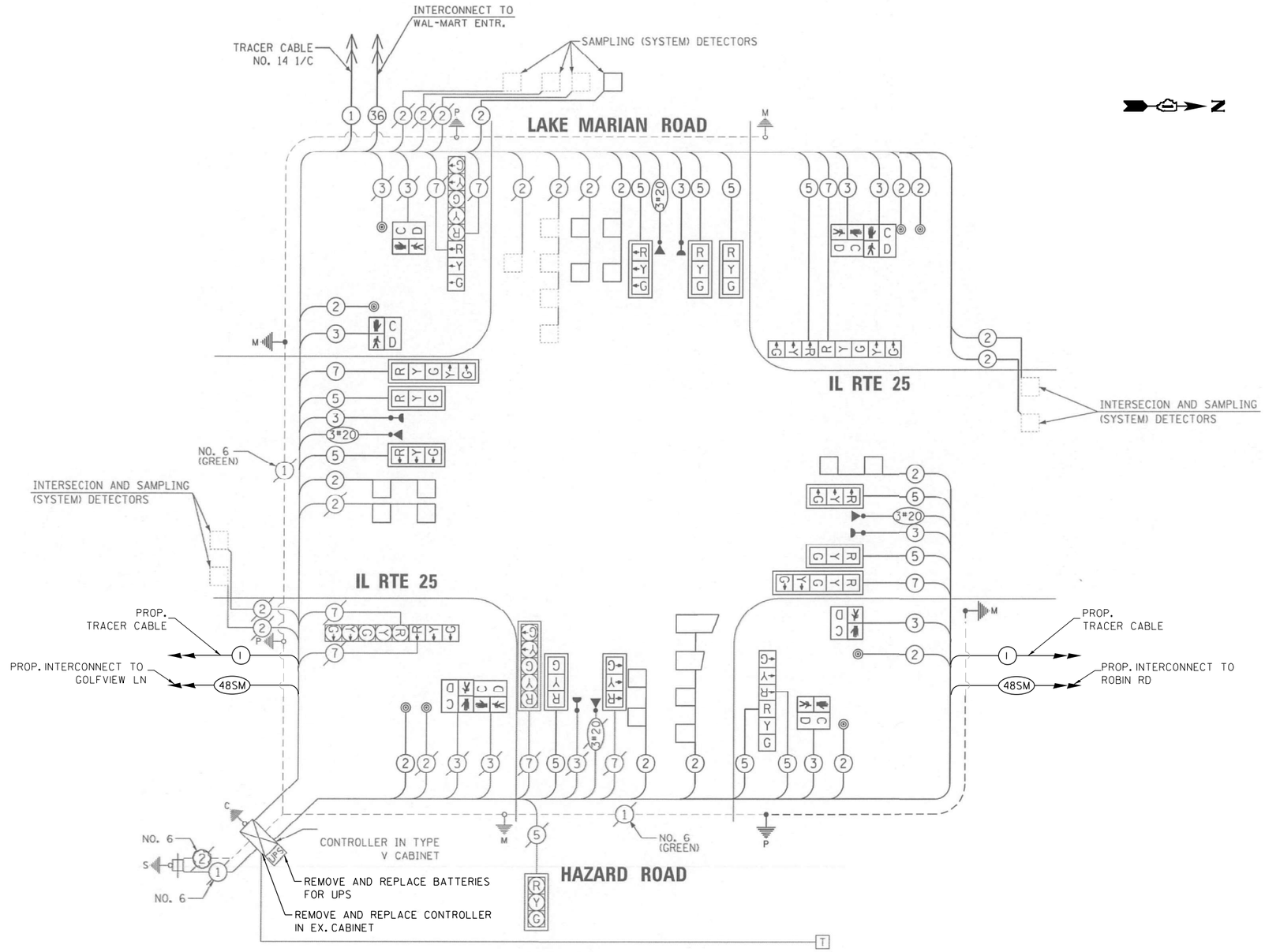


PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	6	+	7

EMERGENCY VEHICLE PREEMPTION SEQUENCE





I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE ×INCAND.	LED	× % OPERATION	
SIGNAL (RED)	19		17	0.50	161.50
(YELLOW)	19		25	0.25	118.75
(GREEN)	19		15	0.25	71.25
ARROW	12		12	0.10	14.40
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-				
U.P.S.	1		25	1.00	25.00
ENERGY COSTS TO:				TOTAL =	690.90

VILLAGE OF CARPENTERSVILLE
1200 L.W. BESINGER DRIVE
CARPENTERSVILLE, ILLINOIS 60110

ENERGY SUPPLY: CONTACT: RENEE MAZARIEGOS
PHONE: (847) 608-2331
COMPANY: COMED

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
TERMINAL SERVER	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

TS 4390
IDOT TACTICS
SUBSYSTEM EAGLE 5G

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhI TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\0054_IL Rte 25 at Lake Marian Rd_CD.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

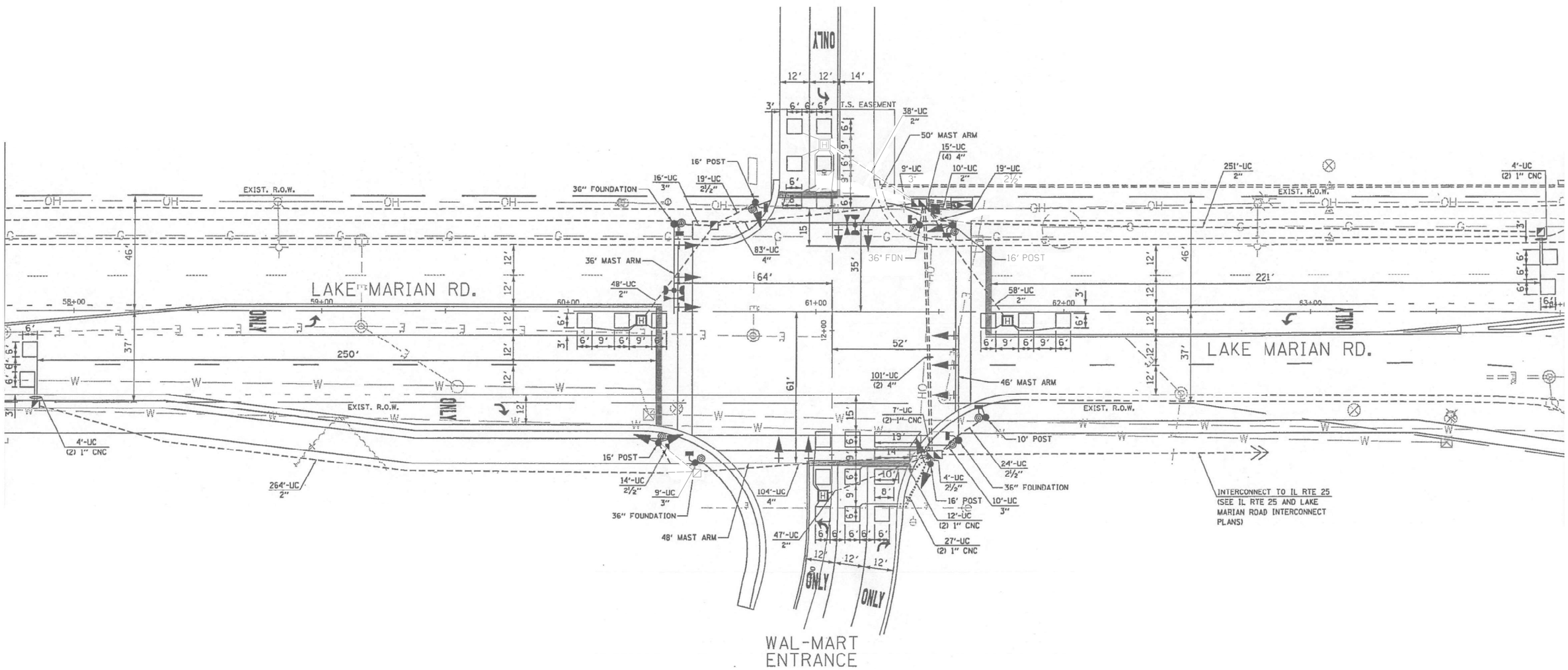
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #10
IL RTE 25 AT LAKE MARIAN RD CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	36
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. . | ILLINOIS | FED. AID PROJECT



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS XXX
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #11
LAKE MARIAN RD AT WALMART ENT
INTERSECTION PLAN

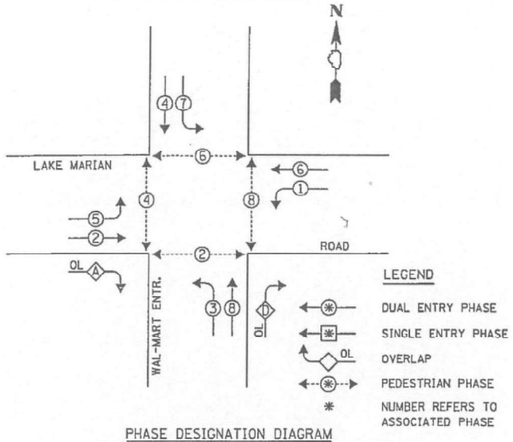
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	37
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phl TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\055_Lake Marian Rd at Walmart Ent_INT.dgn

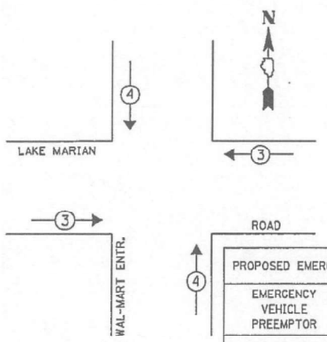
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



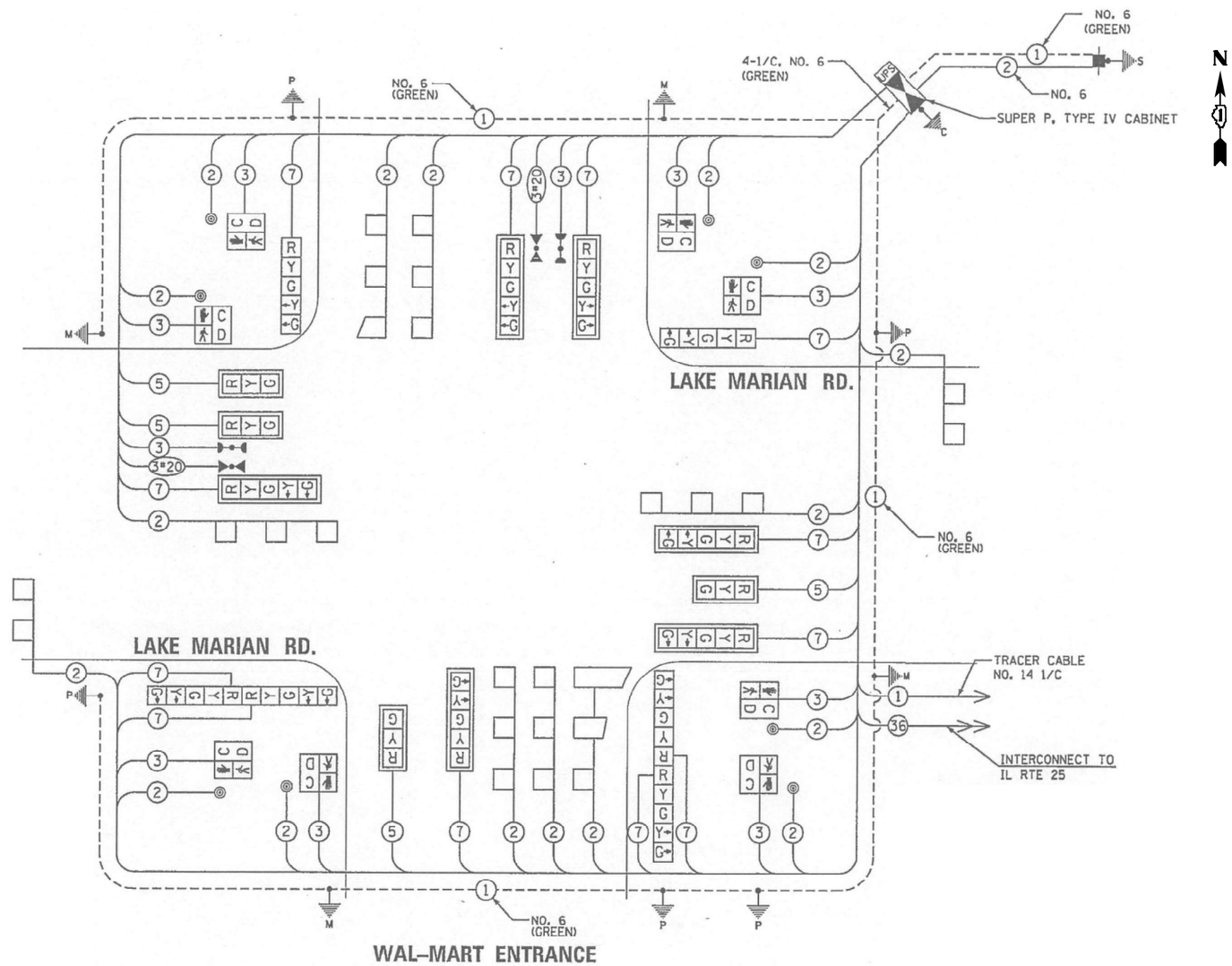
PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE ×INCAND.	WATTAGE LED	× % OPERATION	
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	24		12	0.10	28.80
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-				
U.P.S.	1		25	1.00	25.00
ENERGY COSTS TO:				TOTAL =	649.80

VILLAGE OF CARPENTERSVILLE

1200 L.W. BESINGER DRIVE
CARPENTERSVILLE, ILLINOIS 60110

ENERGY SUPPLY: CONTACT: RENEE MAZARIEGOS
PHONE: (847) 608-2331
COMPANY: COMED



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS XXX
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #11
LAKE MARIAN RD AT WALMART ENT CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	38
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\0956_Lake Marian Rd at Walmart Ent_CD.dgn

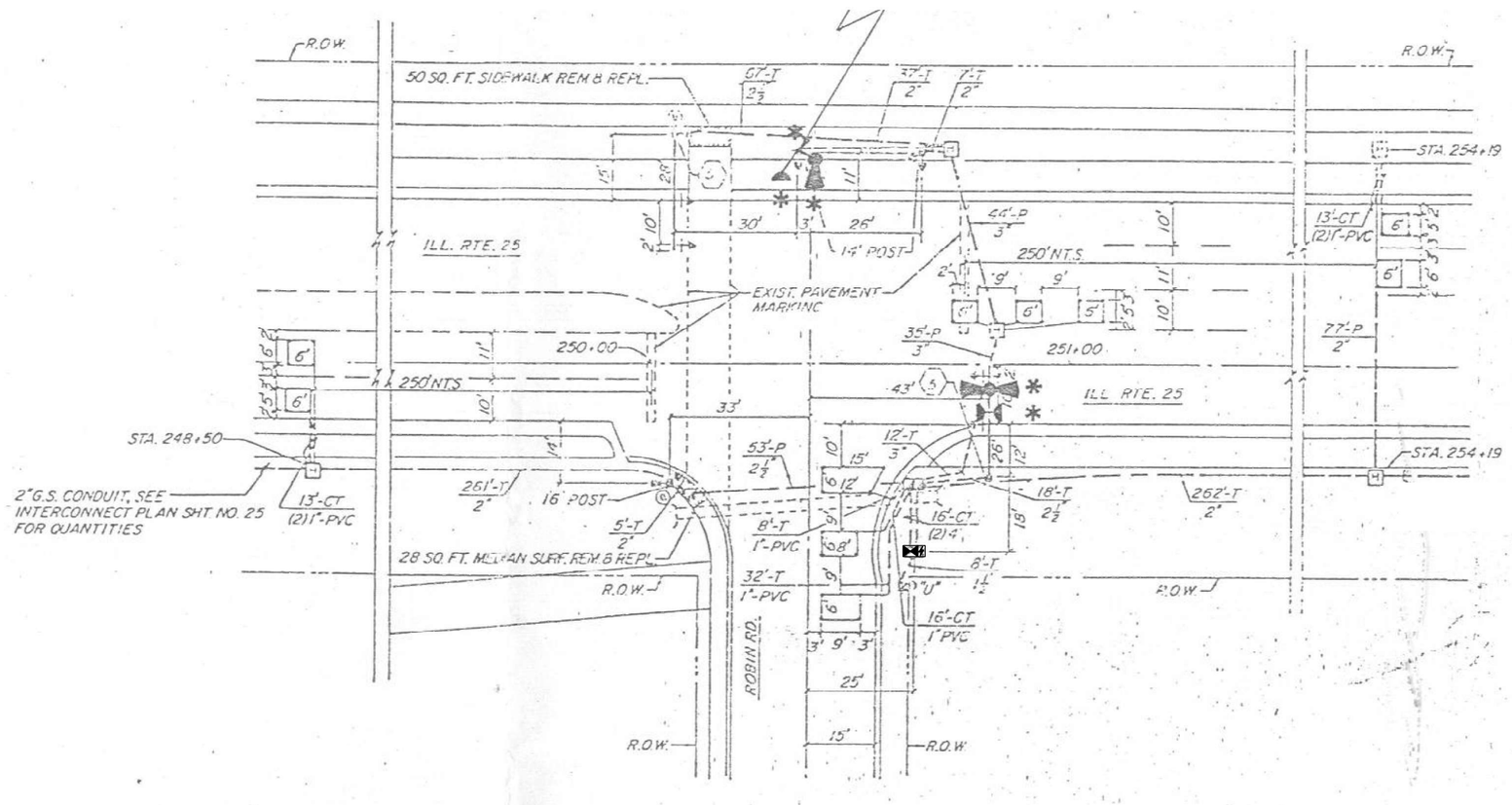
REMOVAL AND RELOCATION NOTES:

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

1	EACH	TRANSCEIVER FIBER OPTIC
1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	METERED SERVICE



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 4325
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #12
IL RTE 25 AT ROBIN RD
INTERSECTION PLAN

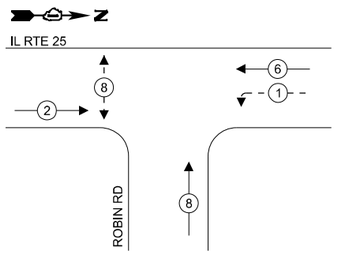
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	39
		CONTRACT NO. 62W92		

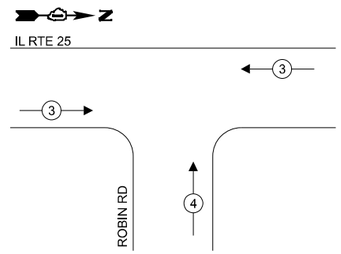
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\057_IL Rte 25 at Robin Rd_INT.dgn

EXISTING AND PROPOSED CONTROLLER SEQUENCE

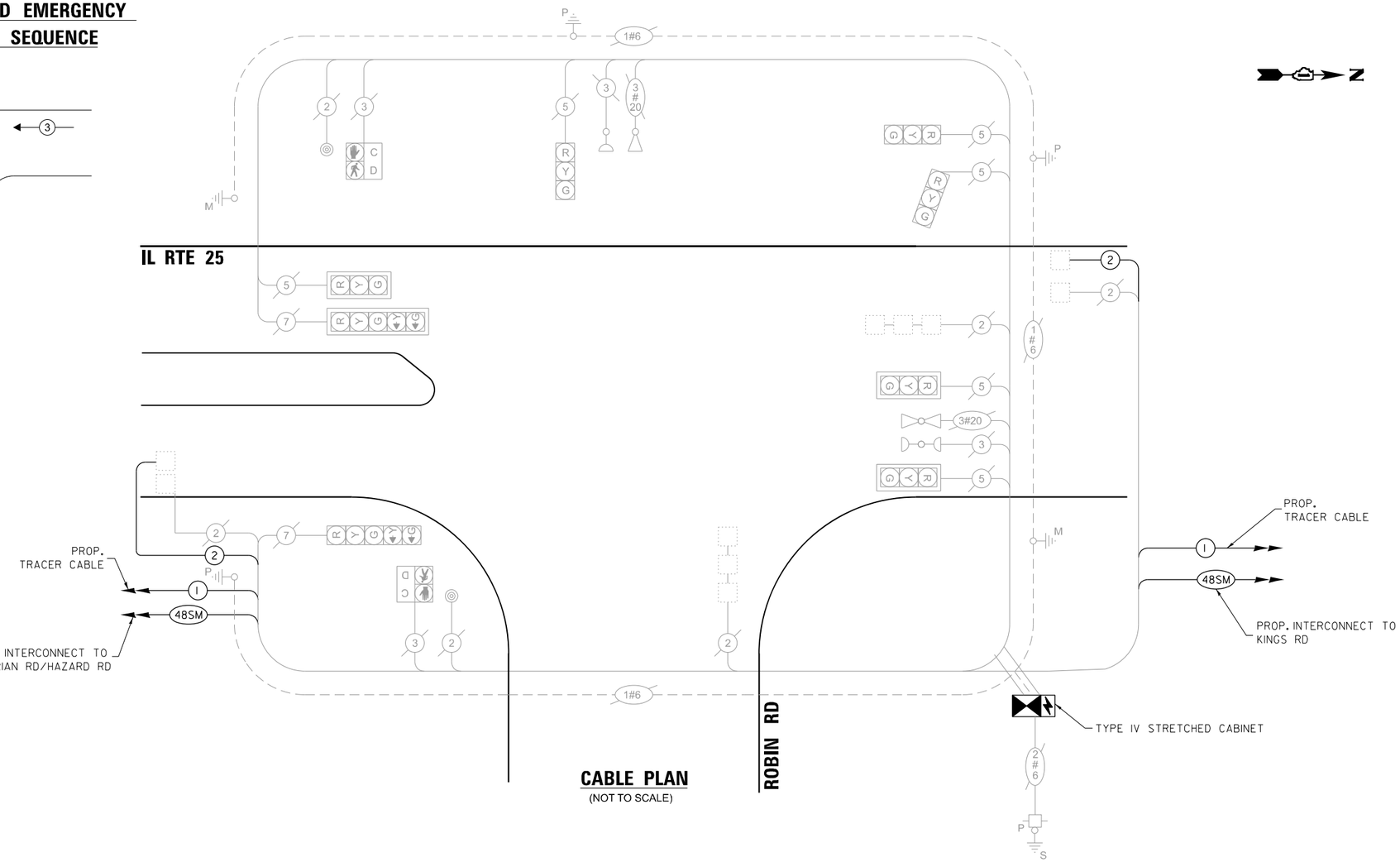


EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP



CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3 - SECTION	6	11	66.0
4 - SECTION	-	14	-
5 - SECTION	2	13	26.0
PROGRAMMABLE SIGNALS			
3 - SECTION	-	-	-
4 - SECTION	-	-	-
5 - SECTION	-	-	-
PED. SIGNAL	2	15	30.0
CONTROLLER	1	150	150.0
MASTER CONTROLLER	-	100	-
UPS	1	25	25.0
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35.0
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			332.0
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			937.0

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	759
INDUCTIVE LOOP DETECTOR	EACH	6
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

TS 4325
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

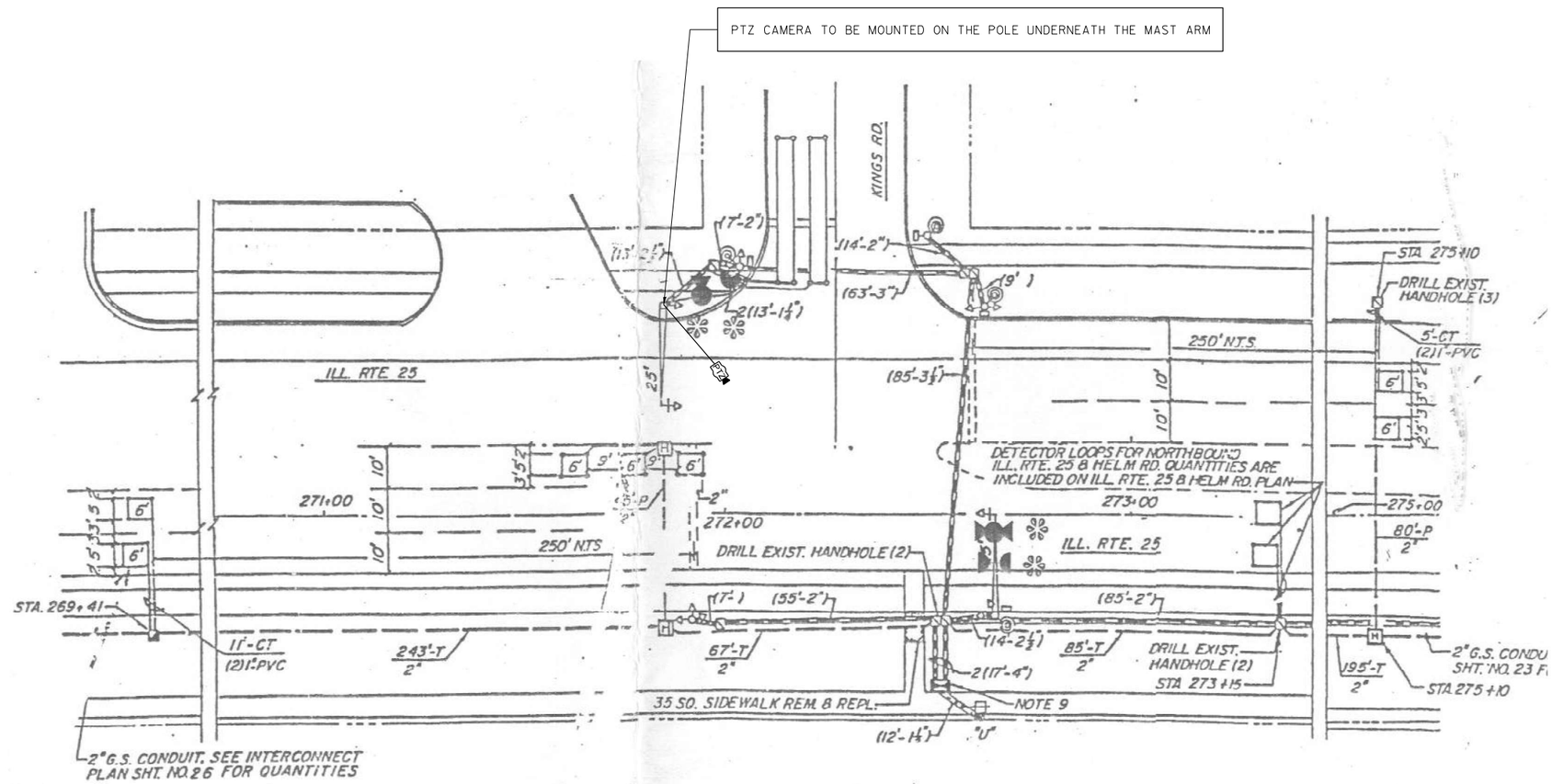
LOCATION #12
IL RTE 25 AT ROBIN RD CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	40
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\058_IL Rte 25 at Robin Rd_CD.dgn



NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE POLE OF THE MAST ARM UNDERNEATH THE ARM OF THE MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 4310
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #13
IL RTE 25 AT KINGS RD
INTERSECTION PLAN

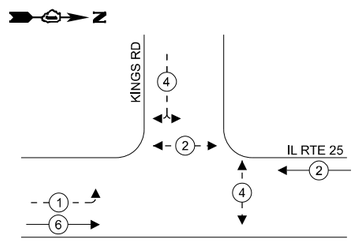
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	41
		CONTRACT NO. 62W92		

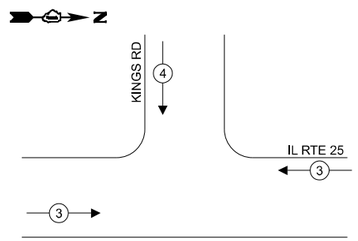
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\059_IL Rte 25 at Kings Rd_INT.dgn

EXISTING CONTROLLER SEQUENCE

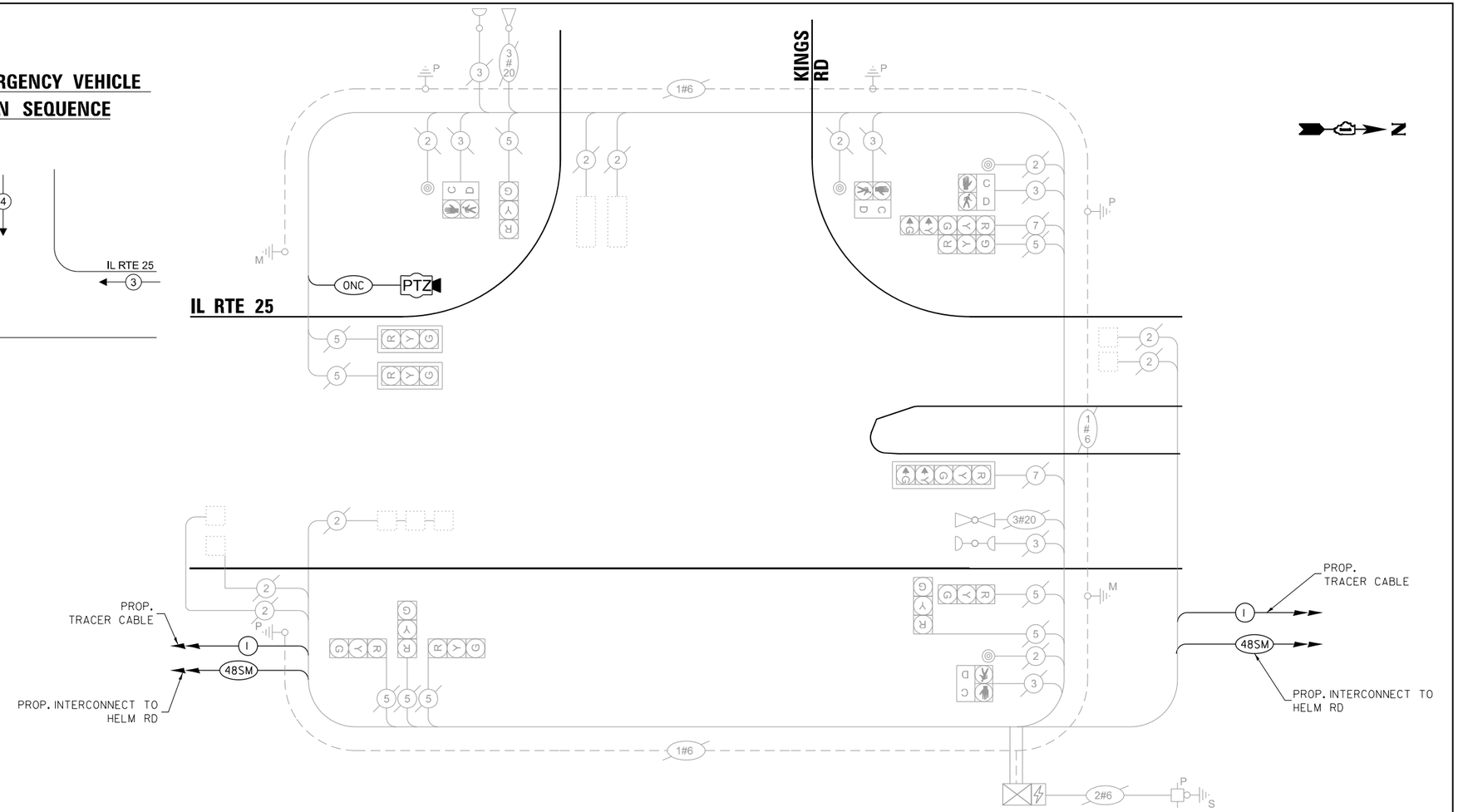


EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP



CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3 - SECTION	9	11	99.0
4 - SECTION	-	14	-
5 - SECTION	2	13	26.0
PROGRAMMABLE SIGNALS			
3 - SECTION	-	-	-
4 - SECTION	-	-	-
5 - SECTION	-	-	-
PED. SIGNAL	4	15	60.0
CONTROLLER	1	150	150.0
MASTER CONTROLLER	-	100	-
UPS	1	25	25.0
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35.0
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			395.0
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			1000.0

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	253
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

TS 4310
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #13
IL RTE 25 AT KINGS RD CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	42
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\060_IL Rte 25 at Kings Rd_CD.dgn

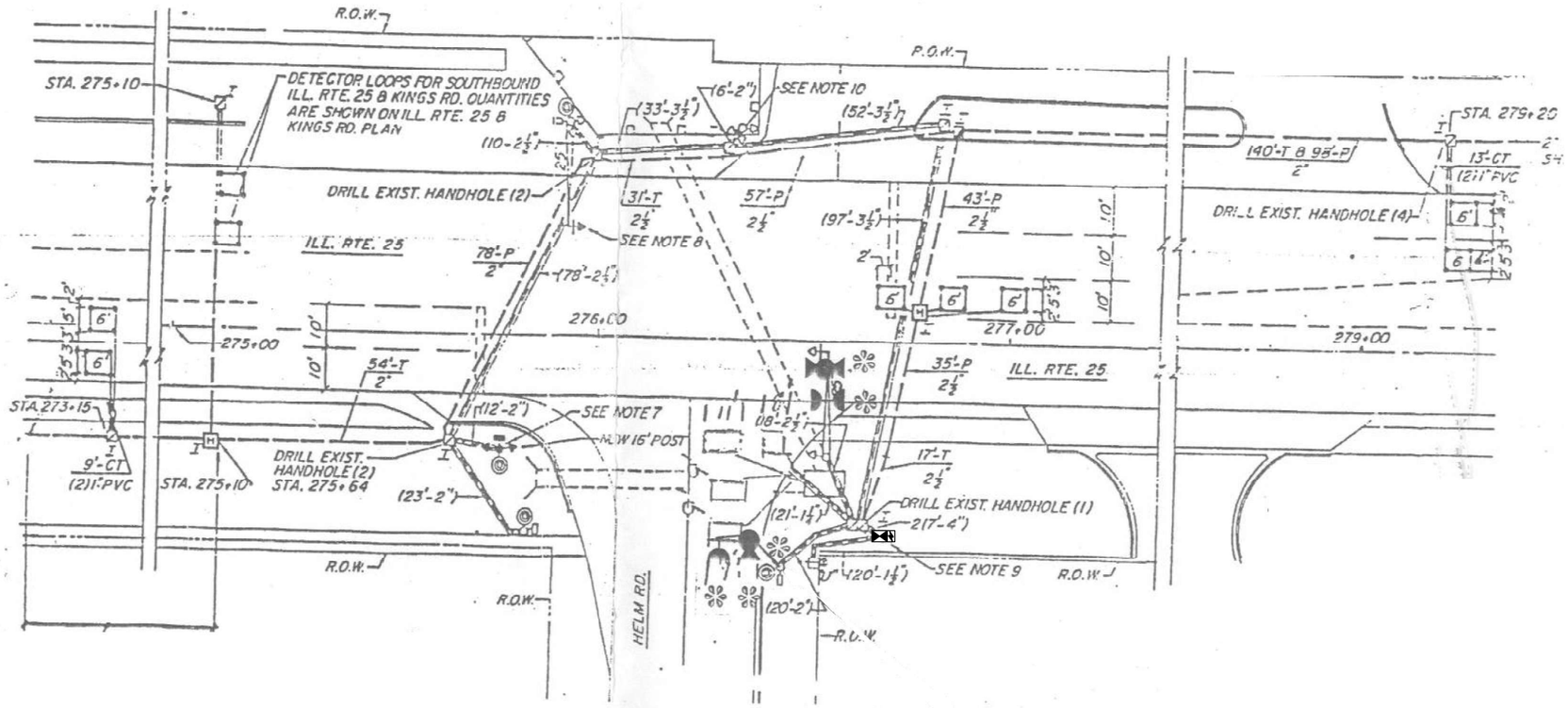
REMOVAL AND RELOCATION NOTES:

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

1	EACH	TRANSCEIVER FIBER OPTIC
1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	METERED SERVICE



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 4320
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #14
IL RTE 25 AT HELM RD
INTERSECTION PLAN

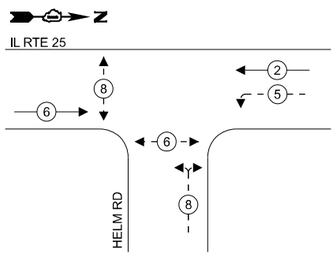
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	43
		CONTRACT NO. 62W92		

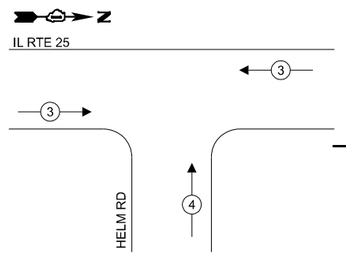
FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\061.IL Rte 25 at Helm Rd.INT.dgn

EXISTING AND PROPOSED CONTROLLER SEQUENCE

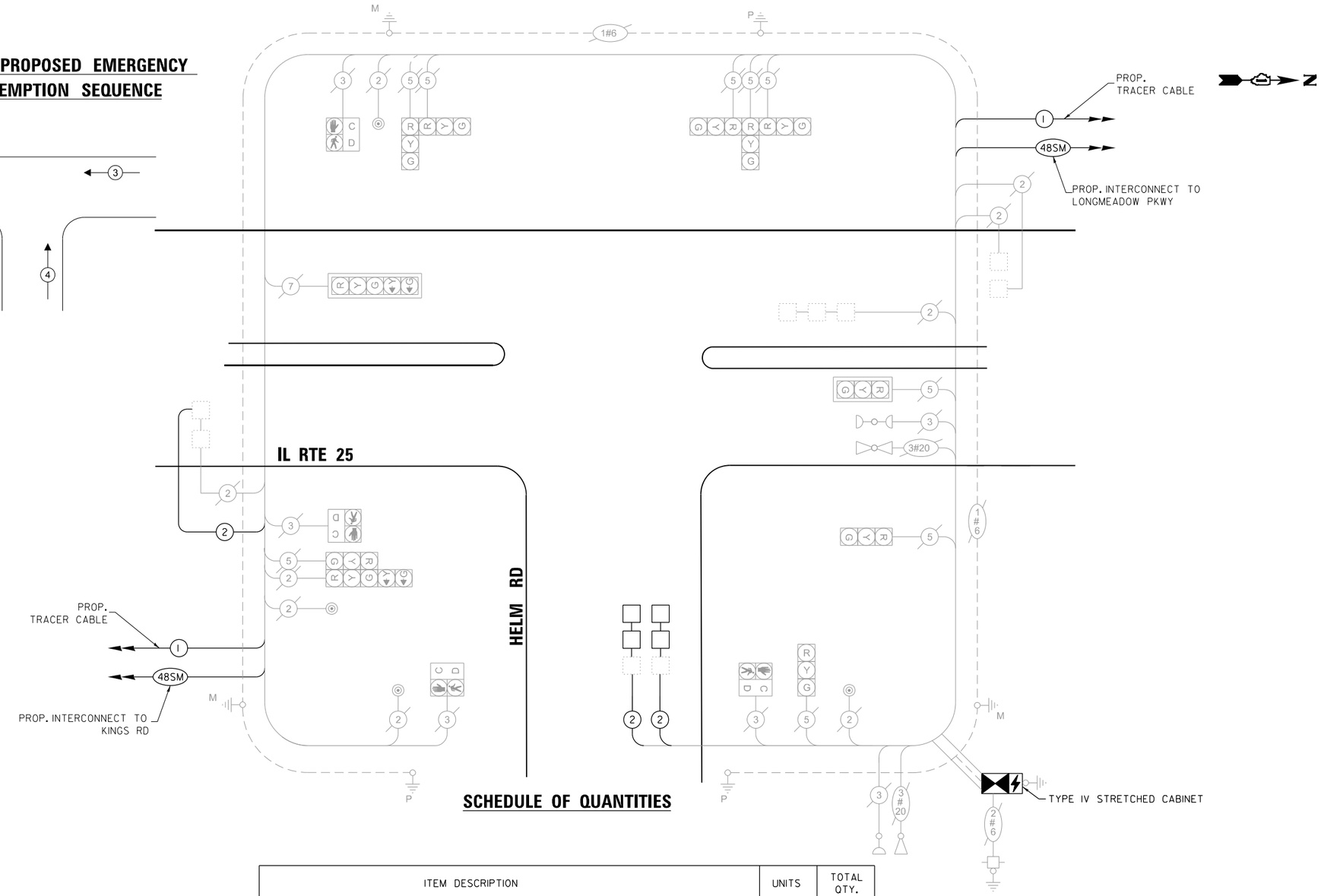


EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3 - SECTION	9	11	99.0
4 - SECTION	-	14	-
5 - SECTION	2	13	26.0
PROGRAMMABLE SIGNALS			
3 - SECTION	-	-	-
4 - SECTION	-	-	-
5 - SECTION	-	-	-
PED. SIGNAL	4	15	60.0
CONTROLLER	1	150	150.0
MASTER CONTROLLER	-	100	-
UPS	1	25	25.0
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35.0
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			395.0
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			1000.0

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	665
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	132
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

TS 4320
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #14
IL RTE 25 AT HELM RD CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

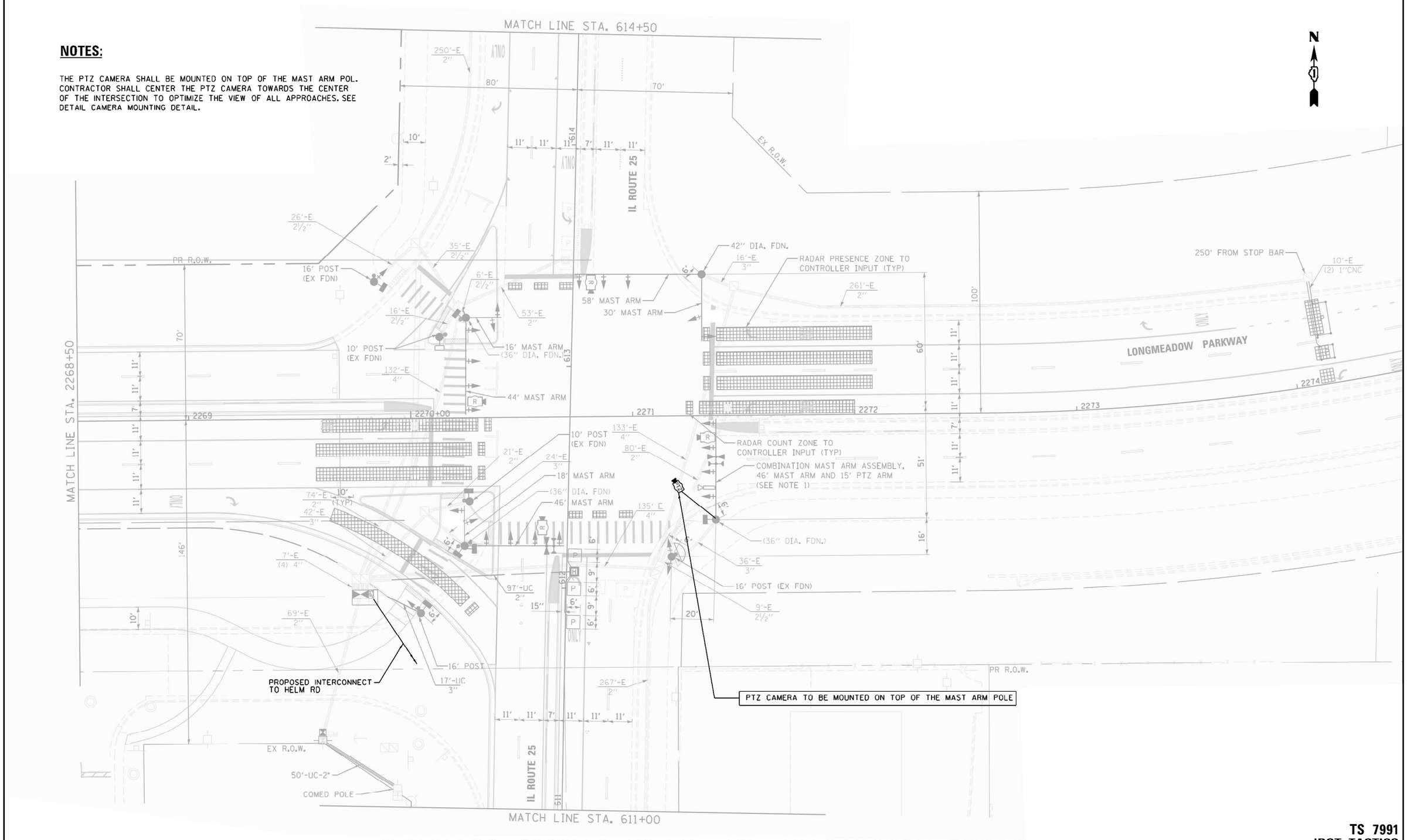
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	44
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\0862_IL Rte 25 at Helm Rd_CD.dgn

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON TOP OF THE MAST ARM POL. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 7991
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #15
IL RTE 25 AT LONGMEADOW PKWY
INTERSECTION PLAN

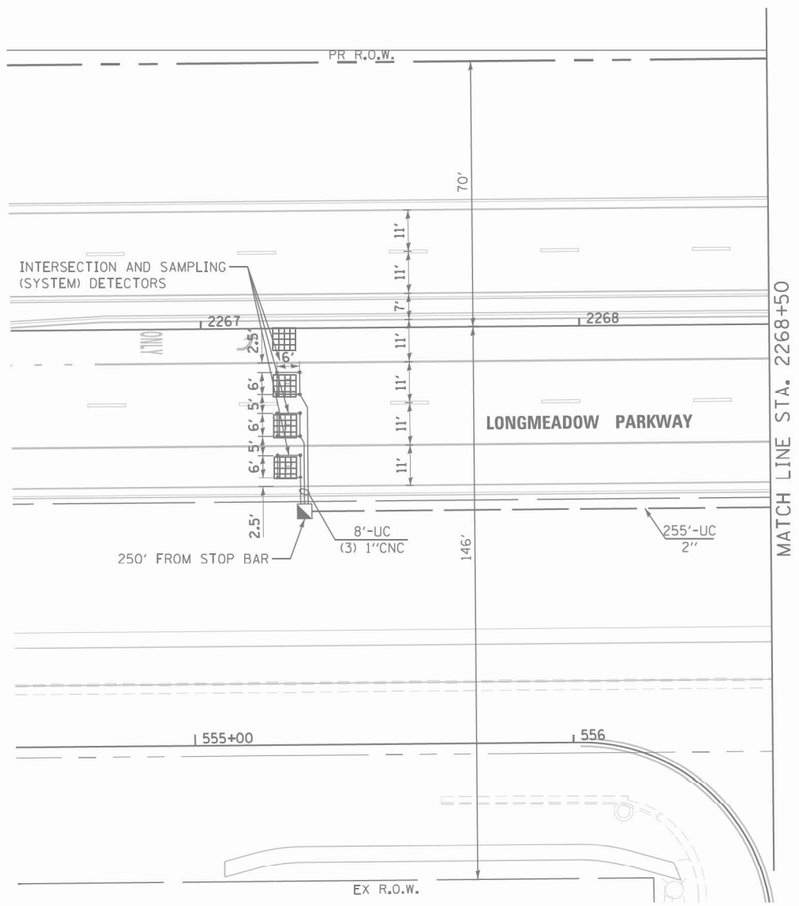
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

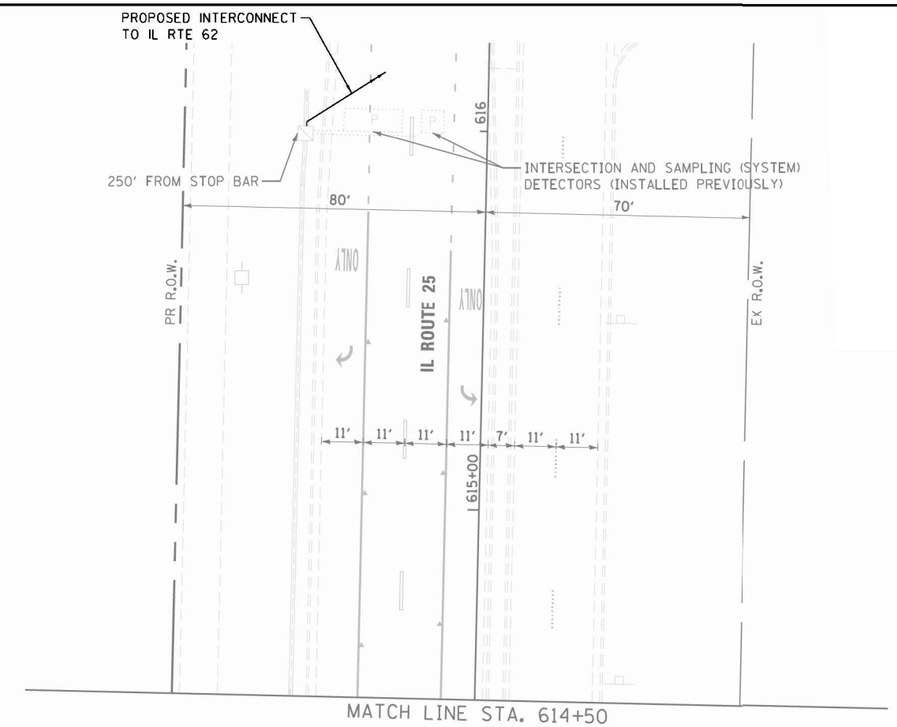
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	45

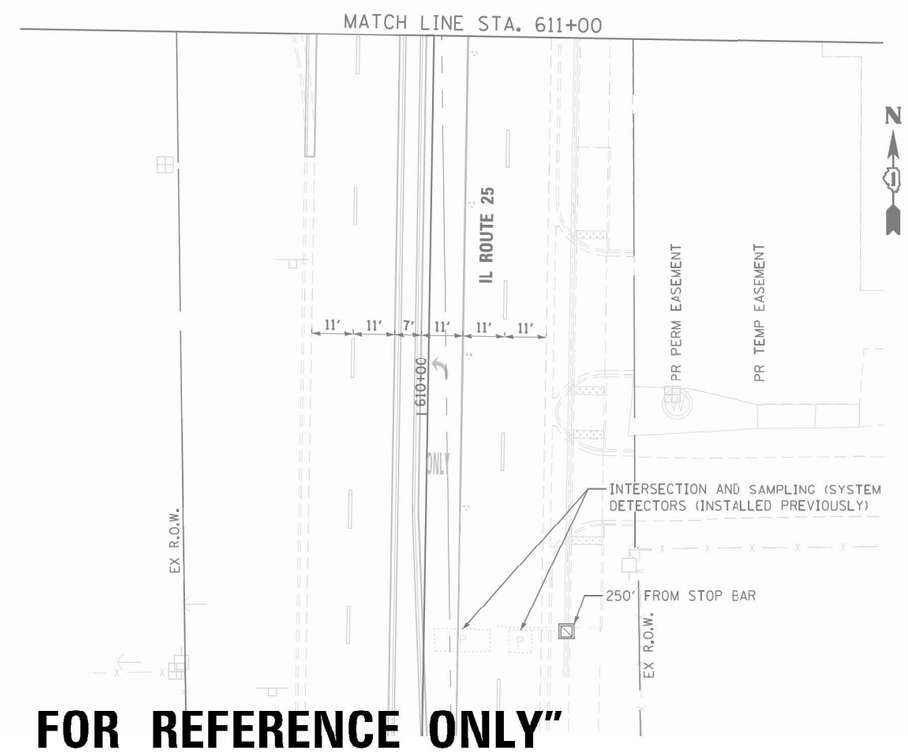
CONTRACT NO. 62W92

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phll TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\0613_IL Rte 25 at Longmeadow Pkwy_INT.dgn







"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 7991
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #15
IL RTE 25 AT LONGMEADOW PKWY
INTERSECTION PLAN

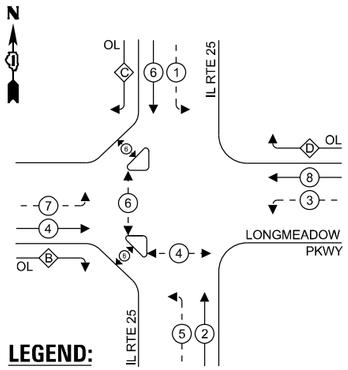
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	46
		CONTRACT NO. 62W92		

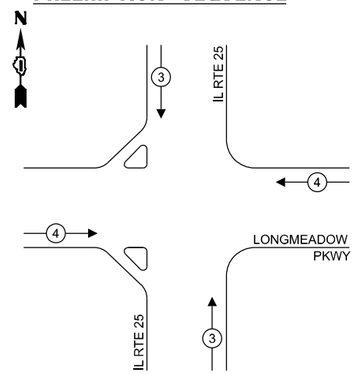
FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phll TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\064_IL Rte 25 at Longmeadow Pkwy_INT_2.dgn

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

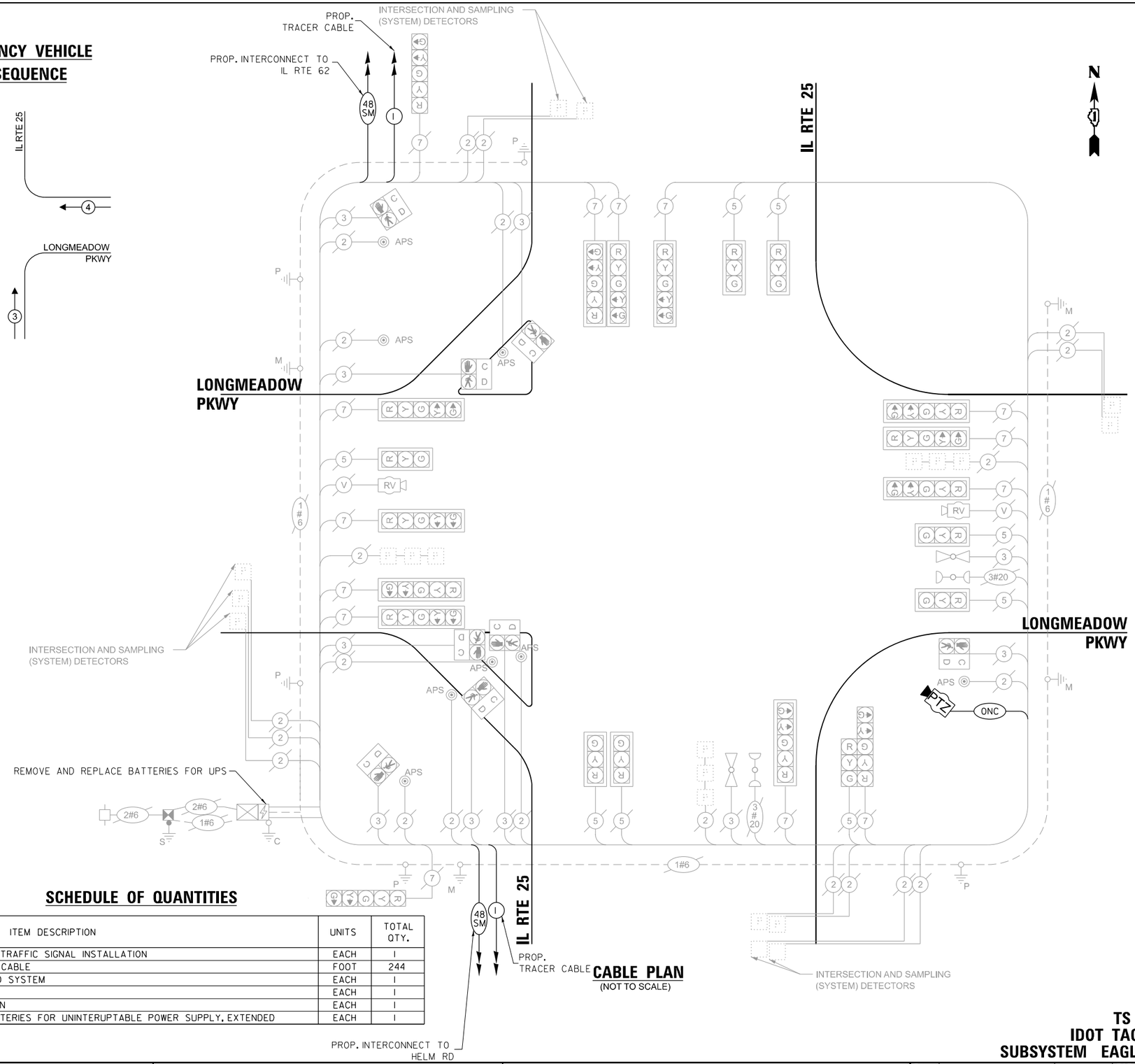
OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5
C	=	6	+	7
D	=	8	+	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3 - SECTION	8	11	88.0
4 - SECTION	-	14	-
5 - SECTION	14	13	182.0
PROGRAMMABLE SIGNALS			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL	8	15	120.0
CONTROLLER	1	150	150.0
MASTER CONTROLLER	-	100	-
UPS	1	25	25.0
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =		605.0	
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =		1210.0	

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS
PHONE: 866-639-3532
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	244
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1

TS 7991
IDOT TACTICS
SUBSYSTEM EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #15
IL RTE 25 AT LONGMEADOW PKWY CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

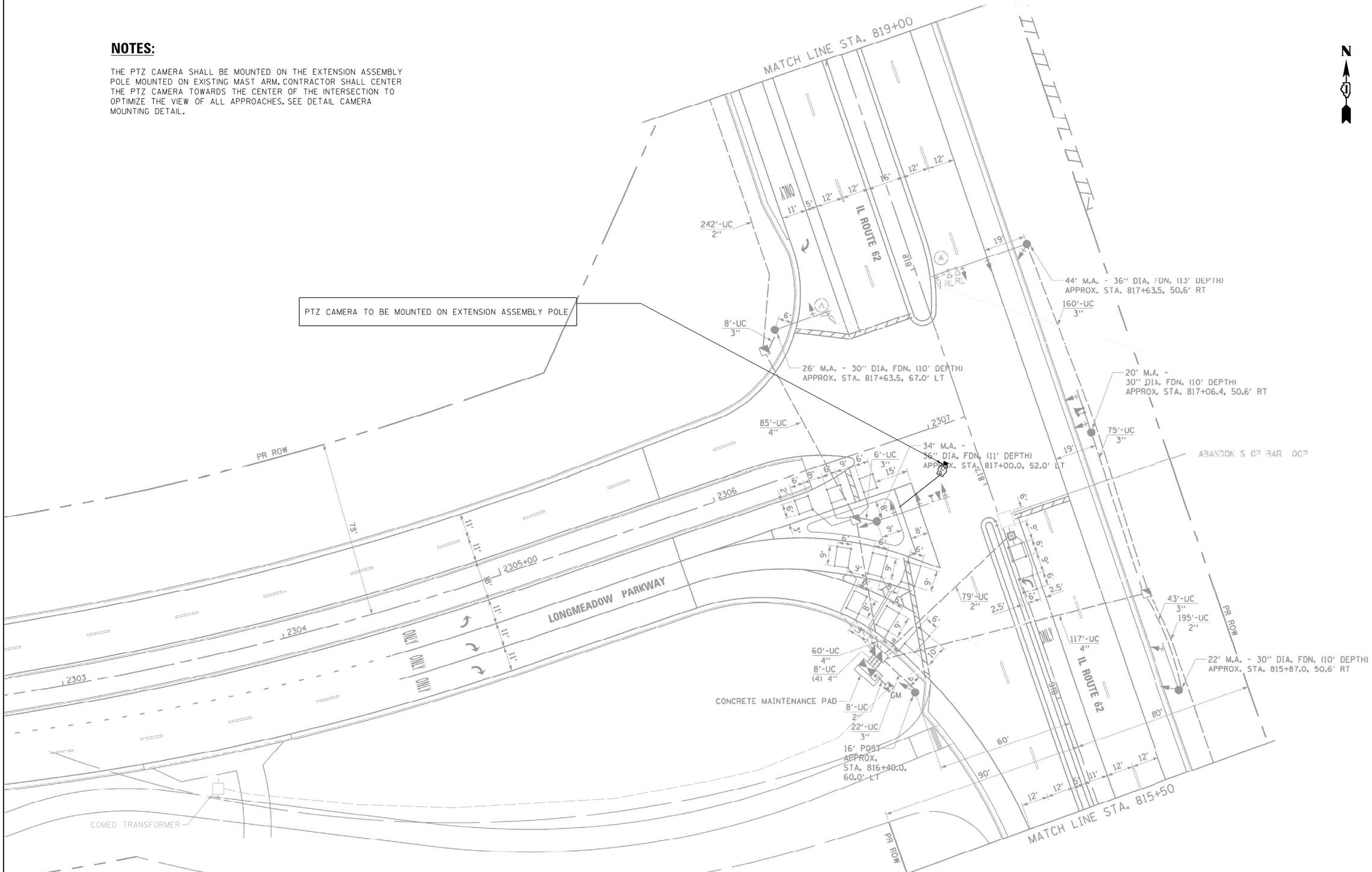
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	47
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\065_IL Rte 25 at Longmeadow Pkwy_CD.dgn

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 7997
IDOT CENTRACS
SUBSYSTEM XXX XXX

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

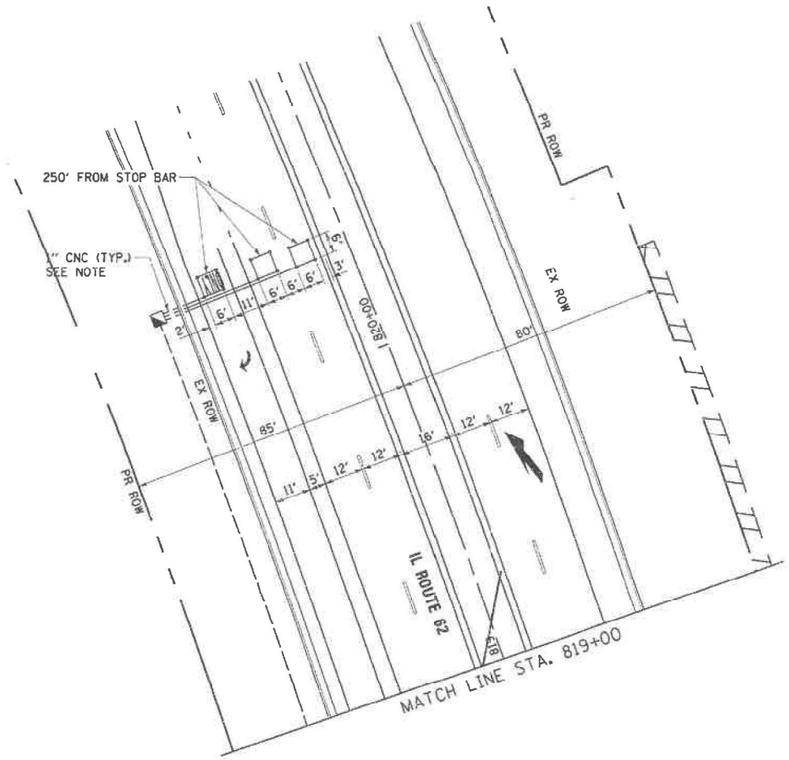
LOCATION #16
LONGMEADOW PKWY AT IL RTE 62
INTERSECTION PLAN

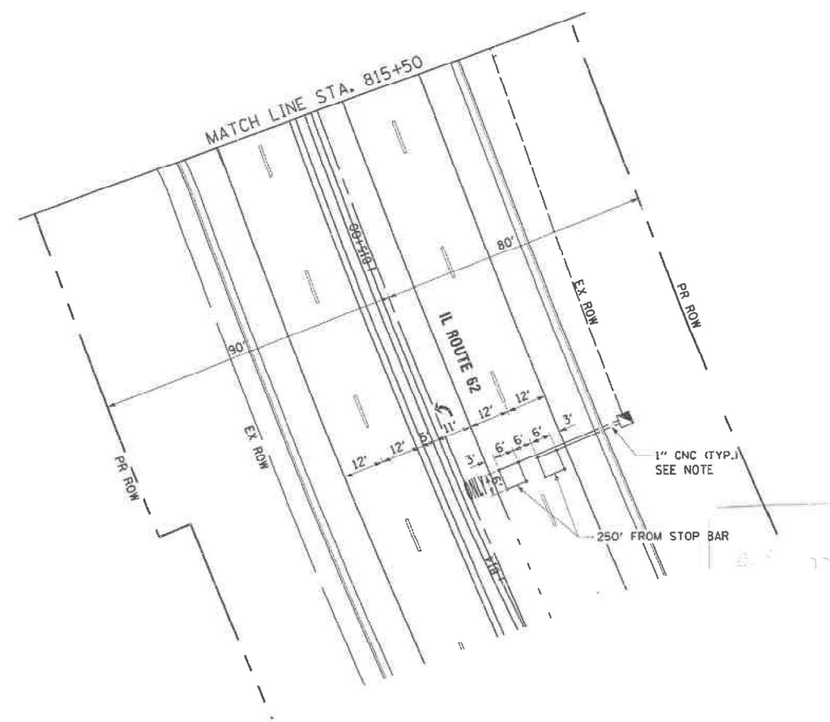
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	48
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. . | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\066_Longmeadow Pkwy at IL Rte 62_INT.dgn





"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 7997
IDOT CENTRACS
SUBSYSTEM XXX XXX

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #16
LONGMEADOW PKWY AT IL RTE 62
INTERSECTION PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

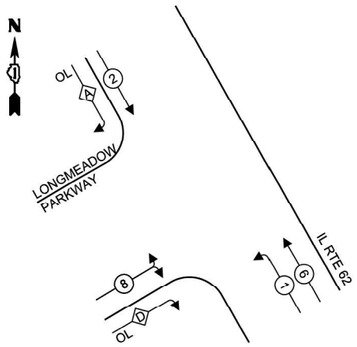
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	49

CONTRACT NO. 62W92

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\067_Longmeadow Pkwy at IL Rte 62_INT_2.dgn

EXISTING CONTROLLER SEQUENCE



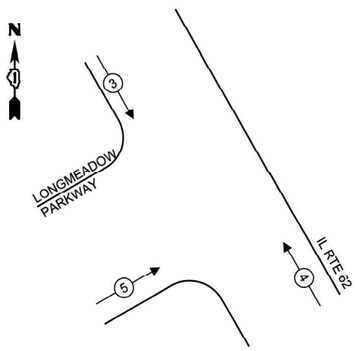
LEGEND:

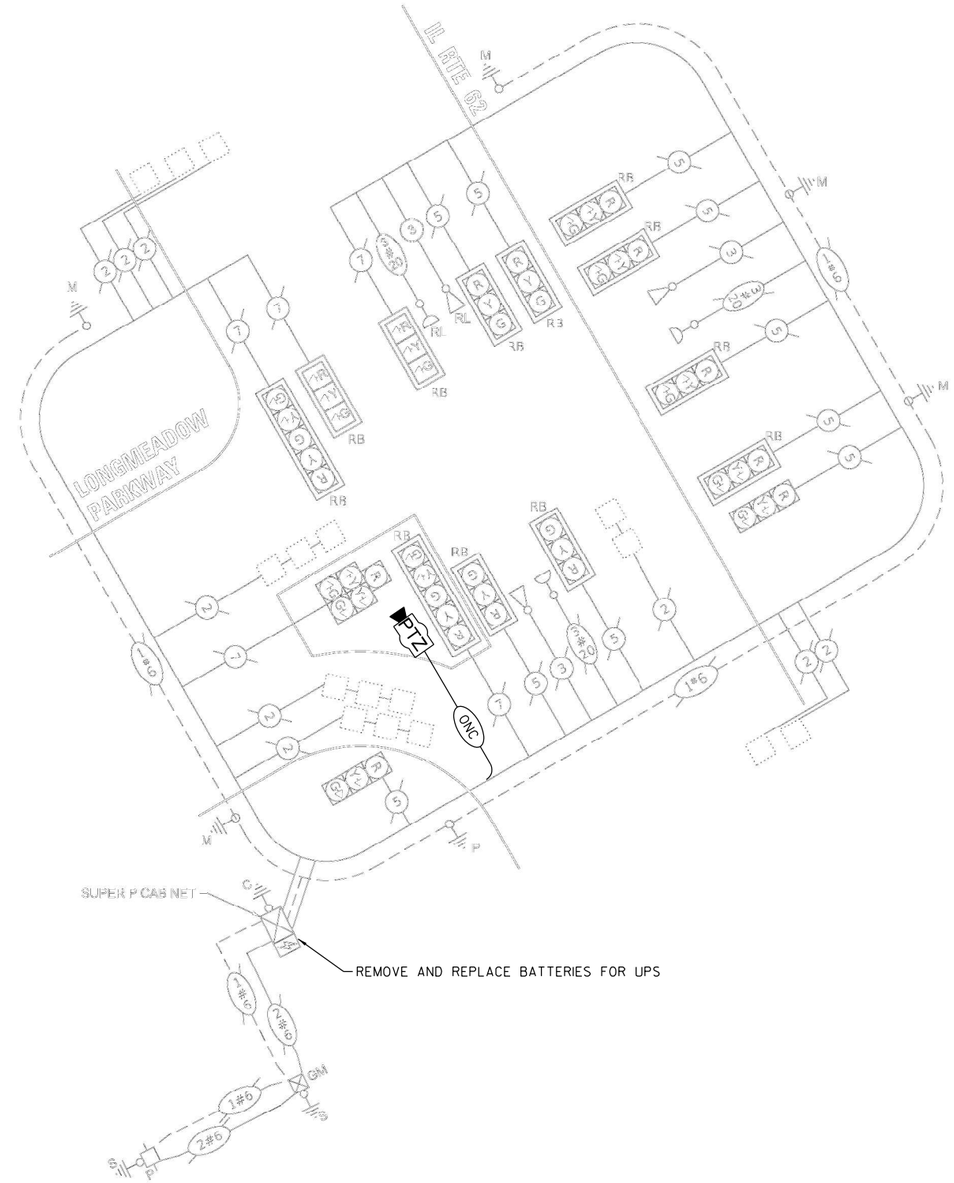
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
D	=	8	+	1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
3 - SECTION	12	11	132
4 - SECTION	-	14	-
5 - SECTION	3	13	39
PROGRAMMABLE SIGNALS			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			346
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
ILUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			951

ENERGY COSTS TO:
KANE COUNTY DIVISION OF TRANSPORTATION
41W011 BURLINGTON RD
ST CHARLES, IL 60175

ENERGY SUPPLY:
CONTACT: NEW BUSINESS DEPT.
PHONE: (866) 639-3532
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
CELLULAR MODEM	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	133
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1

TS 7997
IDOT CENTRACS SUBSYSTEM XXX XXX

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

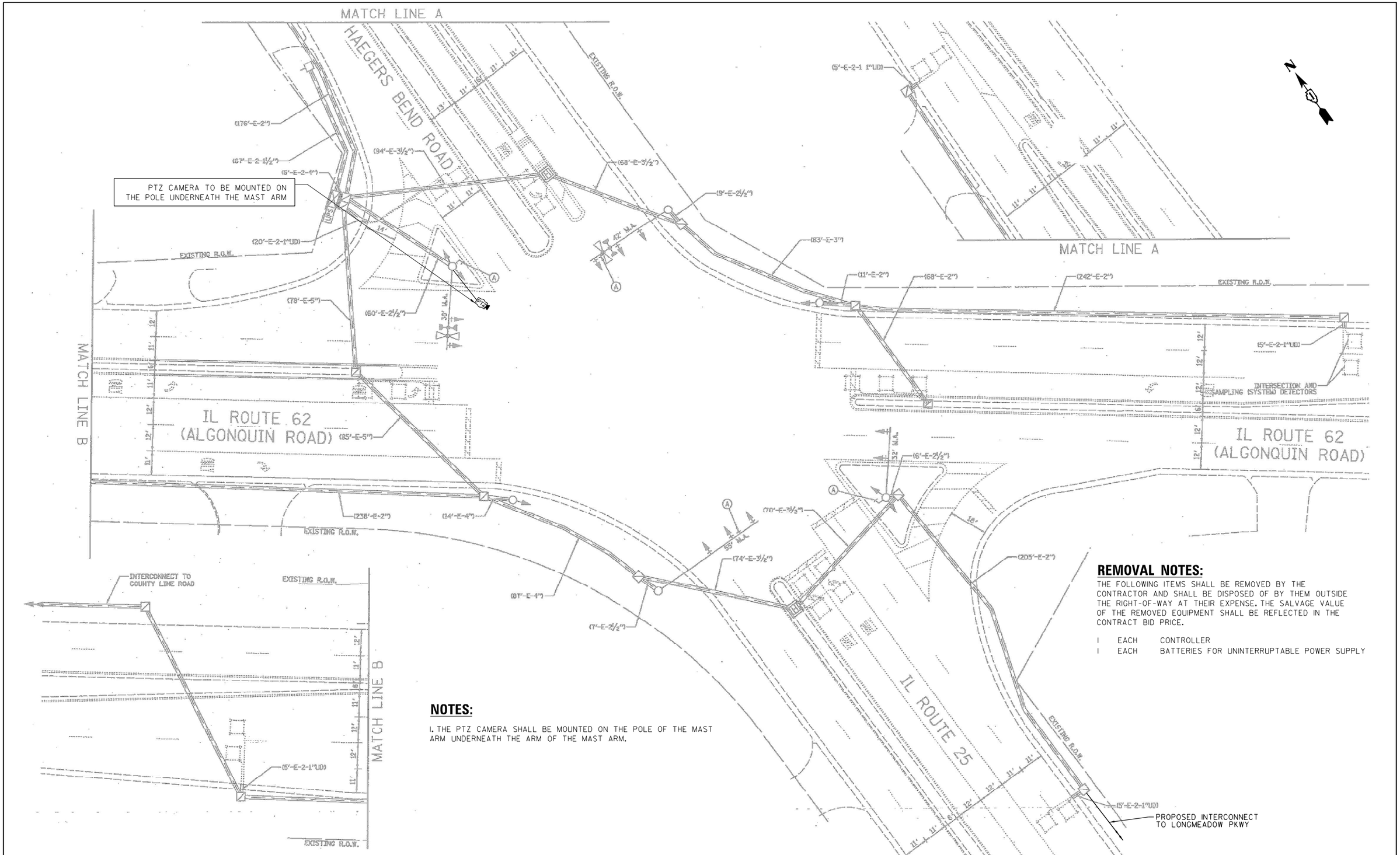
LOCATION #16
LONGMEADOW PKWY AT IL RTE 62 CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	50
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\068_Longmeadow Pkwy at IL Rte 62_CD.dgn



REMOVAL NOTES:

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

1 EACH CONTROLLER
1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY

NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE POLE OF THE MAST ARM UNDERNEATH THE ARM OF THE MAST ARM.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 760
EAGLE 21

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #17
IL RTE 25 AT IL RTE 62 (ALGONQUIN RD)
INTERSECTION PLAN

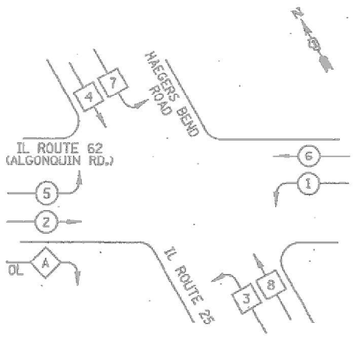
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	51
		CONTRACT NO. 62W92		

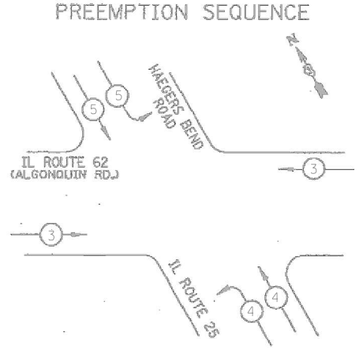
FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\069_IL Rte 25 at IL Rte 62_INT.dgn

EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



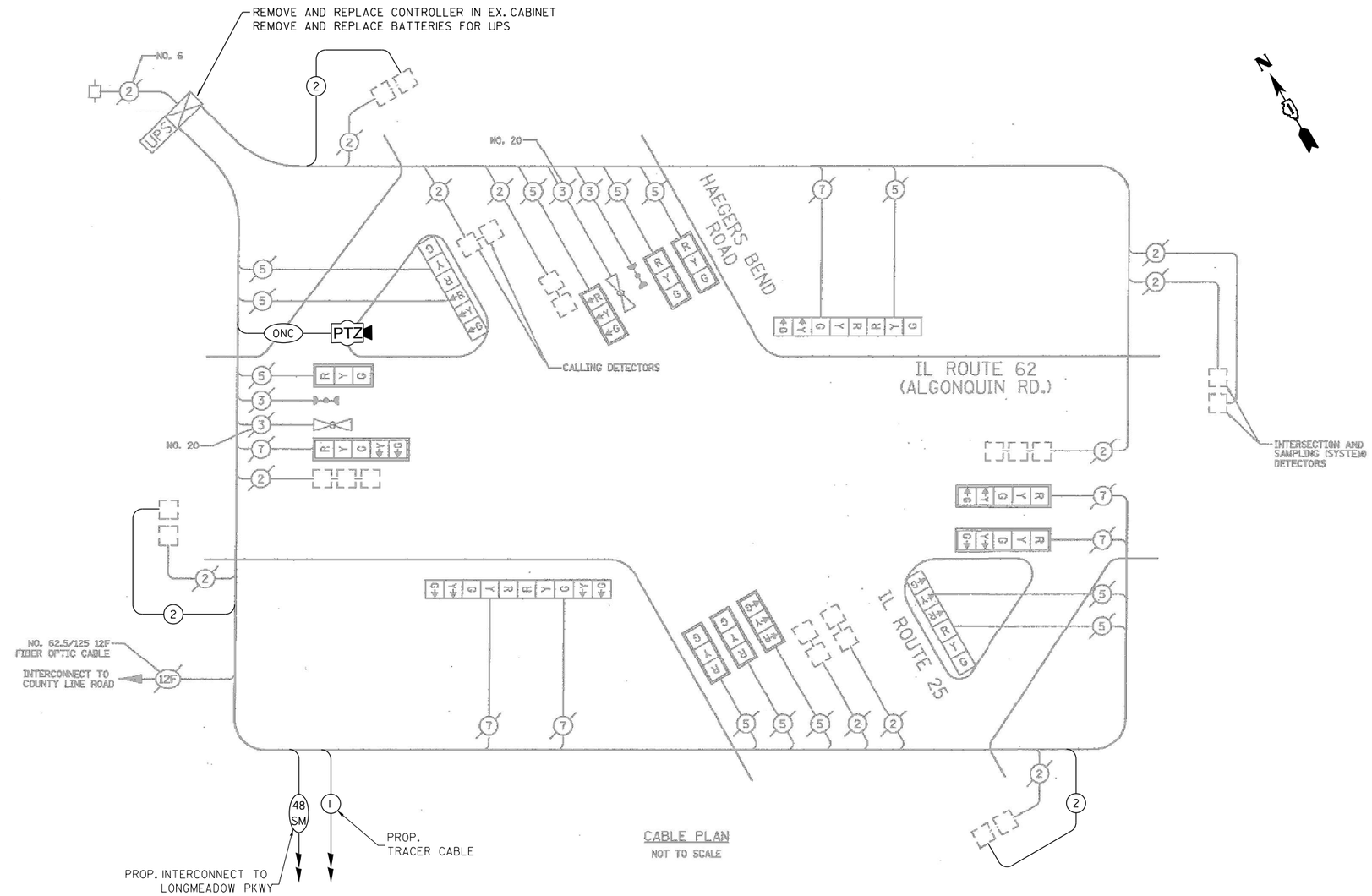
LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3



CABLE PLAN
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	18		17	0.50	153
(YELLOW)	18		25	0.25	113
(GREEN)	18		15	0.25	68
ARROW	12		12	0.10	14
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
				TOTAL =	448

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: DOTTIE PROSEN
PHONE: (847) 816-5323
COMPANY: COM ED

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1309
INDUCTIVE LOOP DETECTOR	EACH	3
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	118
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

TS 760
EAGLE 21

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #17
IL RTE 25 AT IL RTE 62 (ALGONQUIN RD) CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	52
		CONTRACT NO. 62W92		

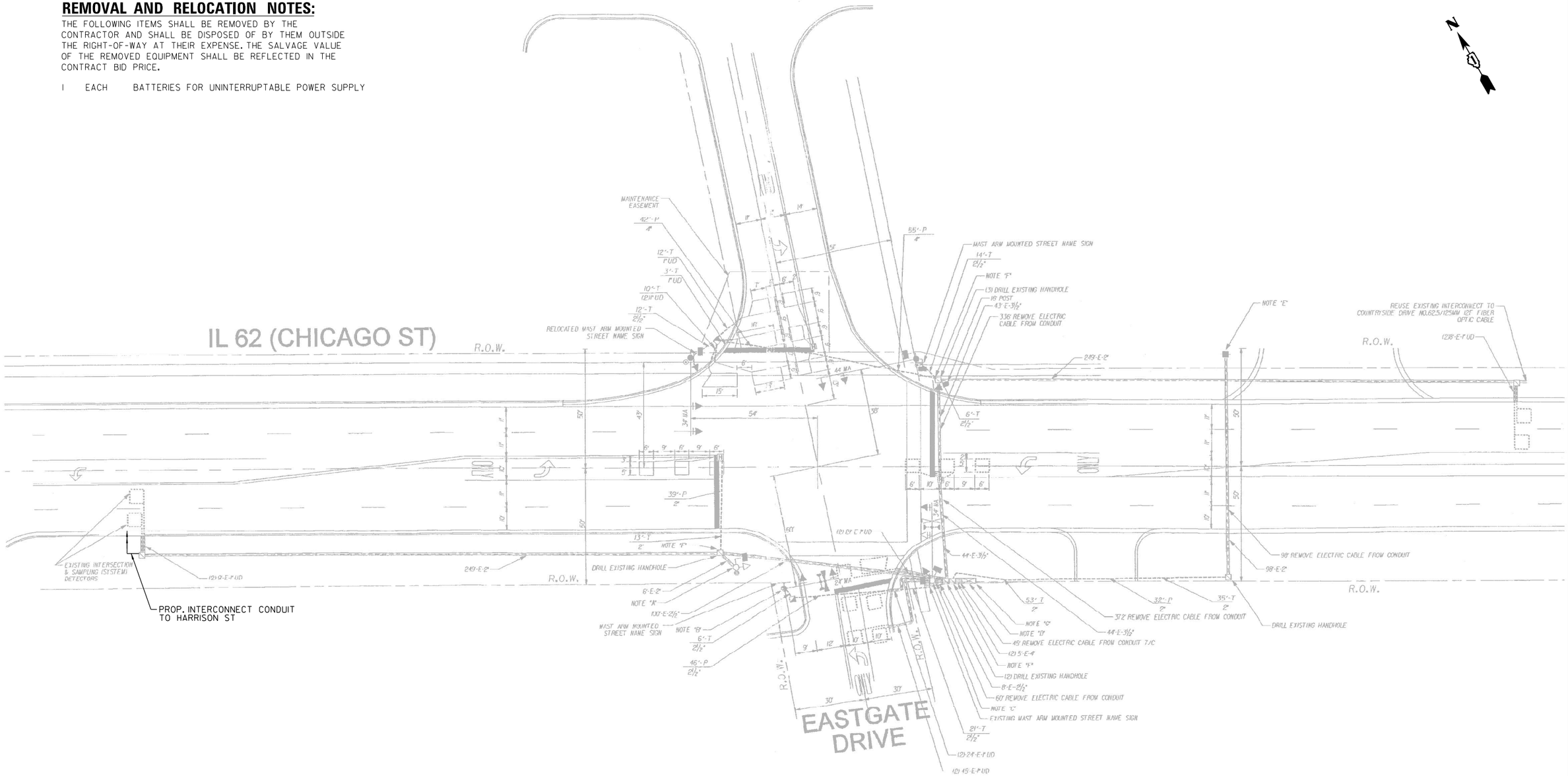
FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD.Sheets\070_IL Rte 25 at IL Rte 62_CD.dgn

REMOVAL AND RELOCATION NOTES:

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

1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 7795
EAGLE 21

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #18
IL RTE 62 (CHICAGO ST) AT EASTGATE DR
INTERSECTION PLAN

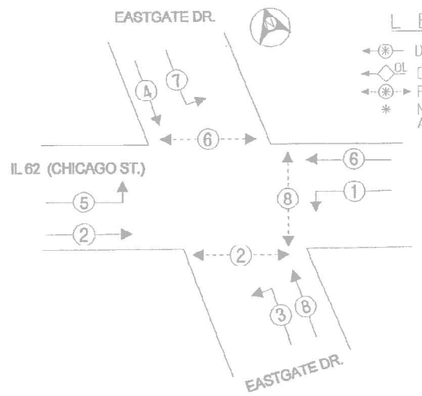
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	53
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phl TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\079_IL Rte 62 at Eastgate Dr_INT.dgn

PROPOSED CONTROLLER SEQUENCE

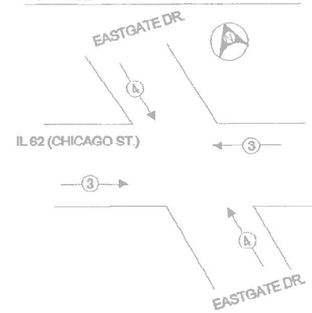


L E G E N D

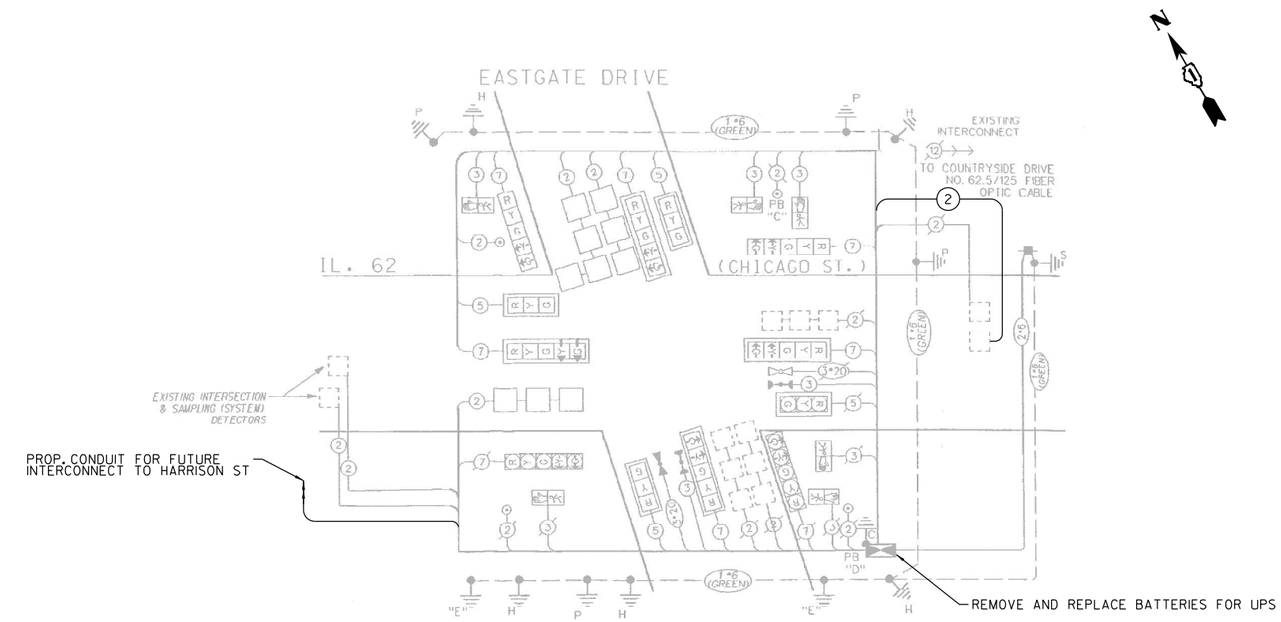
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE.

PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑



PUSH BUTTON NOTES:

PUSH BUTTON "C" SHALL PLACE CALLS IN PHASES 6 & 8.
PUSH BUTTON "D" SHALL PLACE CALLS IN PHASES 2 & 8.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	378
INDUCTIVE LOOP DETECTOR	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	12	135	0.50	810
(YELLOW)	12	135	0.25	405
(GREEN)	12	135	0.25	405
ARROW	16	135	0.10	216
PED. SIGNAL	6	90	1.00	540
CONTROLLER	1	100	1.00	100
ILLUM. SIGN			0.05	
FLASHER LED			0.50	
			TOTAL =	2476

ENERGY COSTS - BILLED TO: VILLAGE ALGONQUIN
(ADDRESS)

ENERGY SUPPLY - CONTACT: Mr. TOM QUANME
PHONE: (815) 334-3312
COMPANY: COMED

TS 7795
EAGLE 21

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #18
IL RTE 62 (CHICAGO ST) AT EASTGATE DR CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	54
		CONTRACT NO. 62W92		

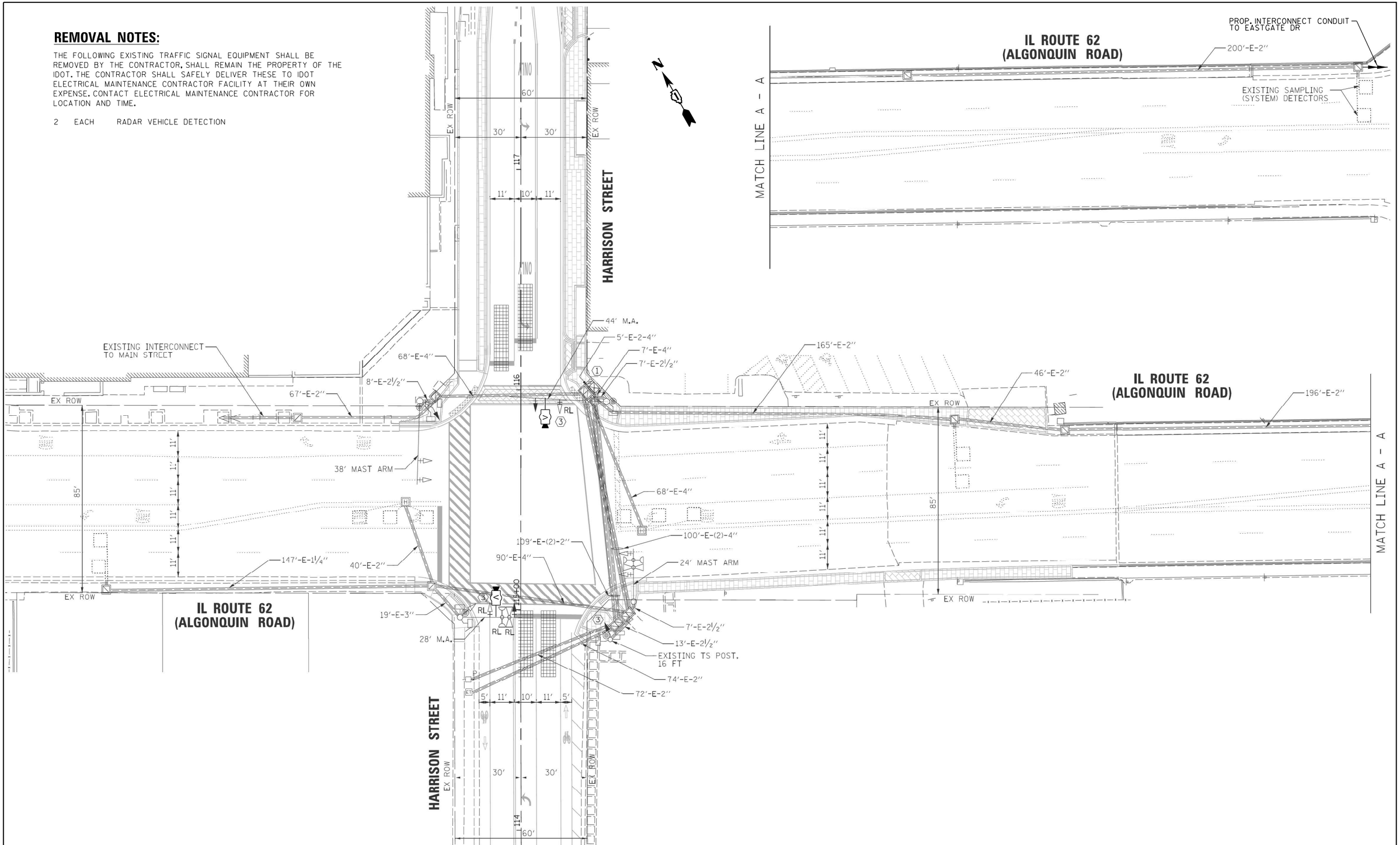
FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phl TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\080_IL Rte 62 at Eastgate Dr_CD.dgn

REMOVAL NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR. SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

2 EACH RADAR VEHICLE DETECTION



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 11580
ECON 193

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #19
IL RTE 62 (ALGONQUIN RD) AT HARRISON ST
INTERSECTION PLAN

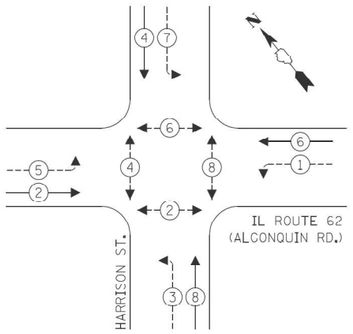
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	55
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS1\Project Work\CADD 62W92\CADD.Sheets\081_IL Rte 62 at Harrison St_INT.dgn

EXISTING PROPOSED CONTROLLER SEQUENCE



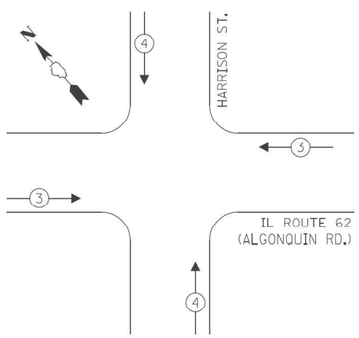
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
D	=	8	+	1

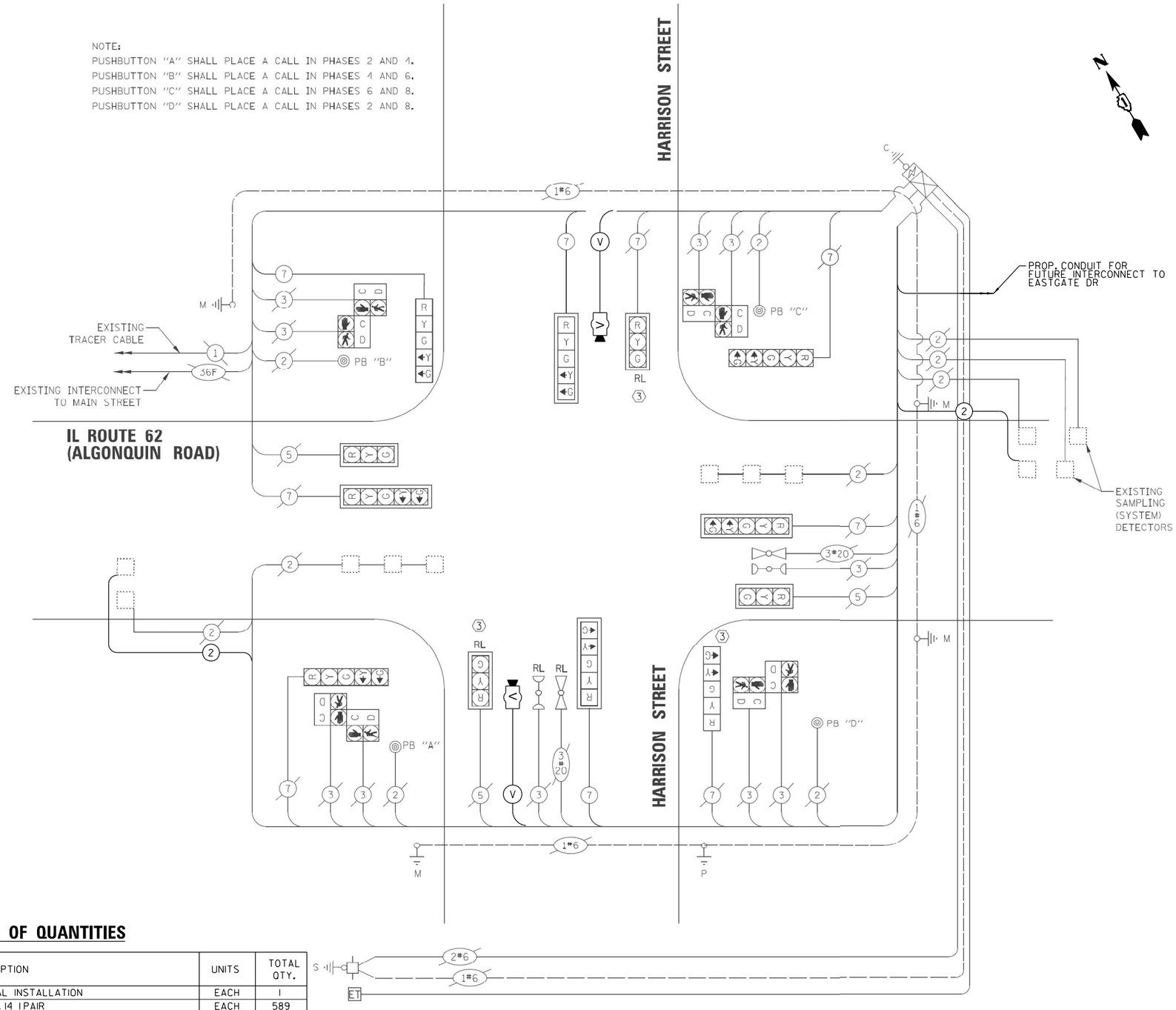
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



NOTE:
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE				
			TOTAL =	443.8

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS

ENERGY SUPPLY: CONTACT: NEW BUSINESS
PHONE: NEW PHONE
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	EACH	589
INDUCTIVE LOOP DETECTOR	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

TS 11580
ECON 193

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

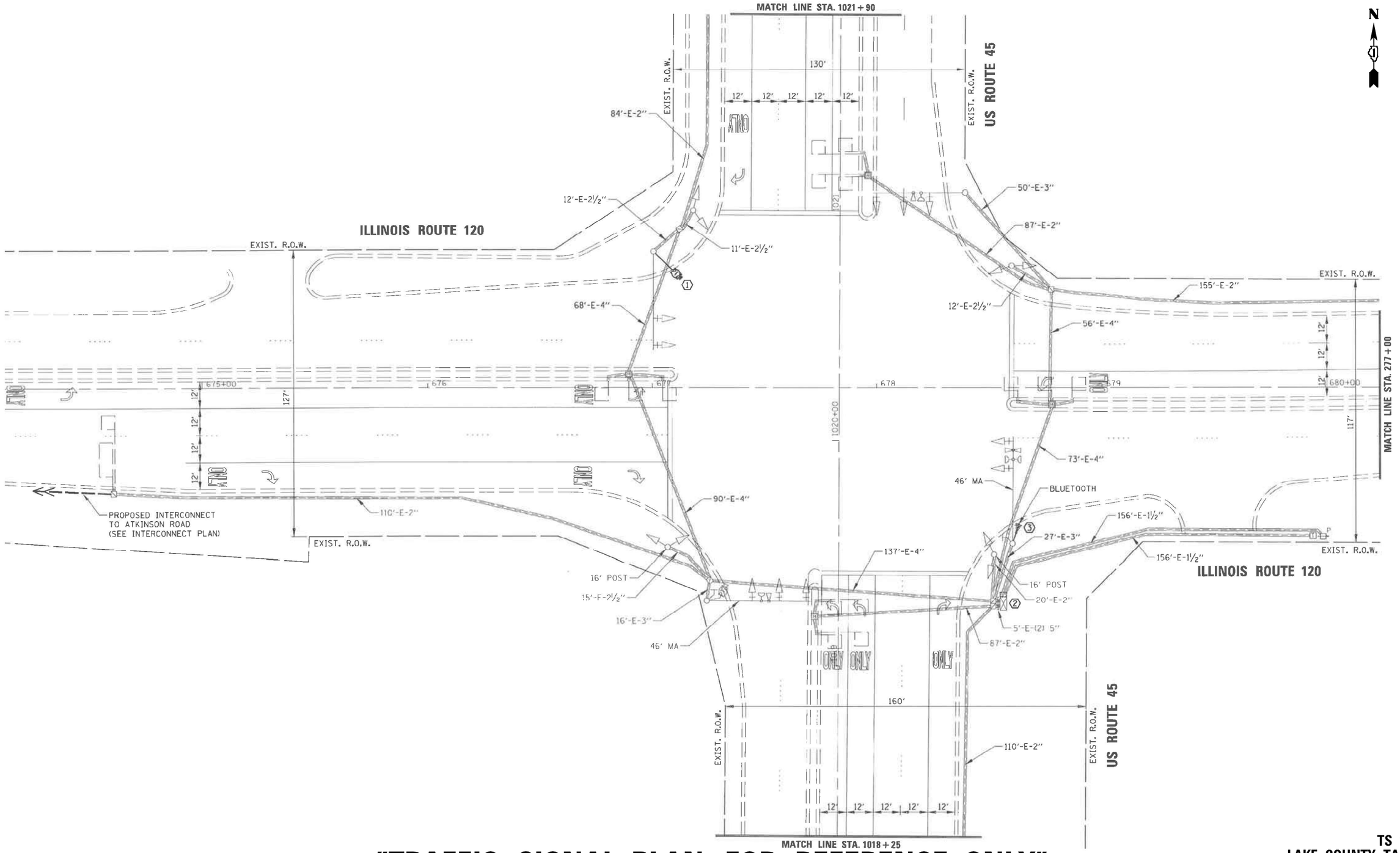
LOCATION #19
IL RTE 62 (ALGONQUIN RD) AT HARRISON ST CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	56
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Pol TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\082_IL Rte 62 at Harrison St_CD.dgn



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 12305
LAKE COUNTY TACTICS SUBSYSTEM EAGLE 4C

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

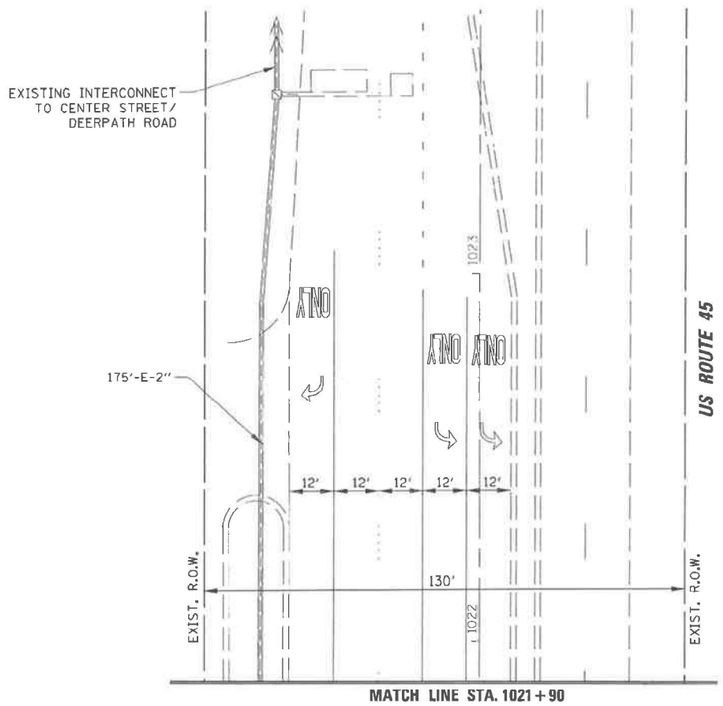
LOCATION #20
US RTE 45 AT IL RTE 120
INTERSECTION PLAN

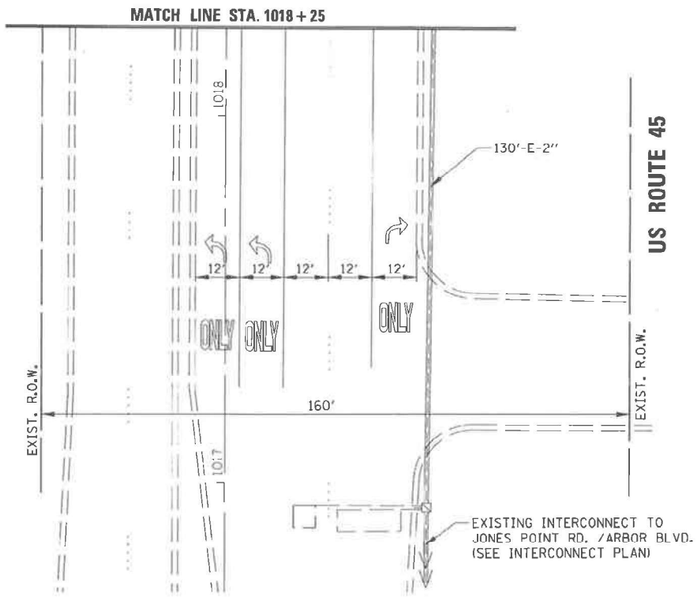
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

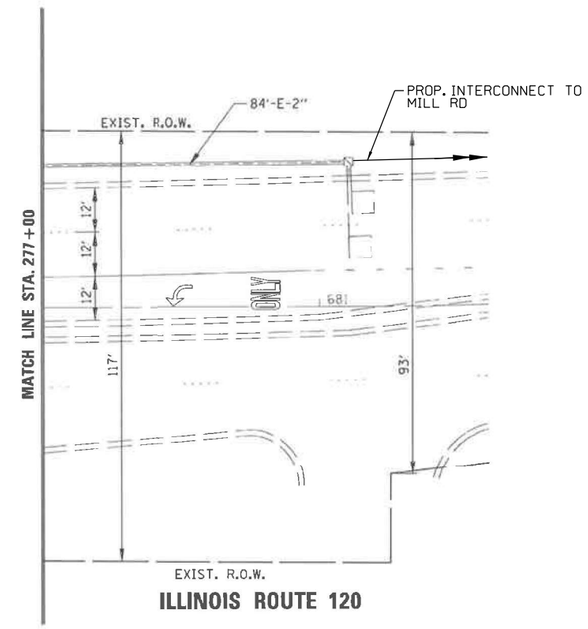
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	57
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\109_US Rte 45 at IL Rte 120_INT.dgn







"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 12305
LAKE COUNTY TACTICS
SUBSYSTEM EAGLE 4C

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #20
US RTE 45 AT IL RTE 120
INTERSECTION PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

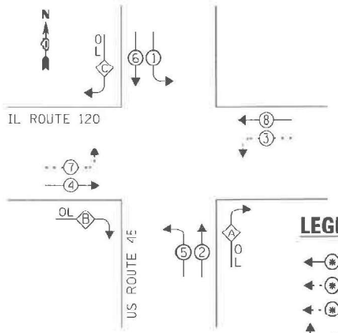
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	58

CONTRACT NO. 62W92

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\110_US Rte 45 at IL Rte 120_INT_2.dgn

EXISTING CONTROLLER SEQUENCE



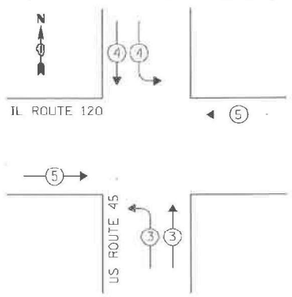
RIGHT TURN OVERLAP PHASE DESIGNATION

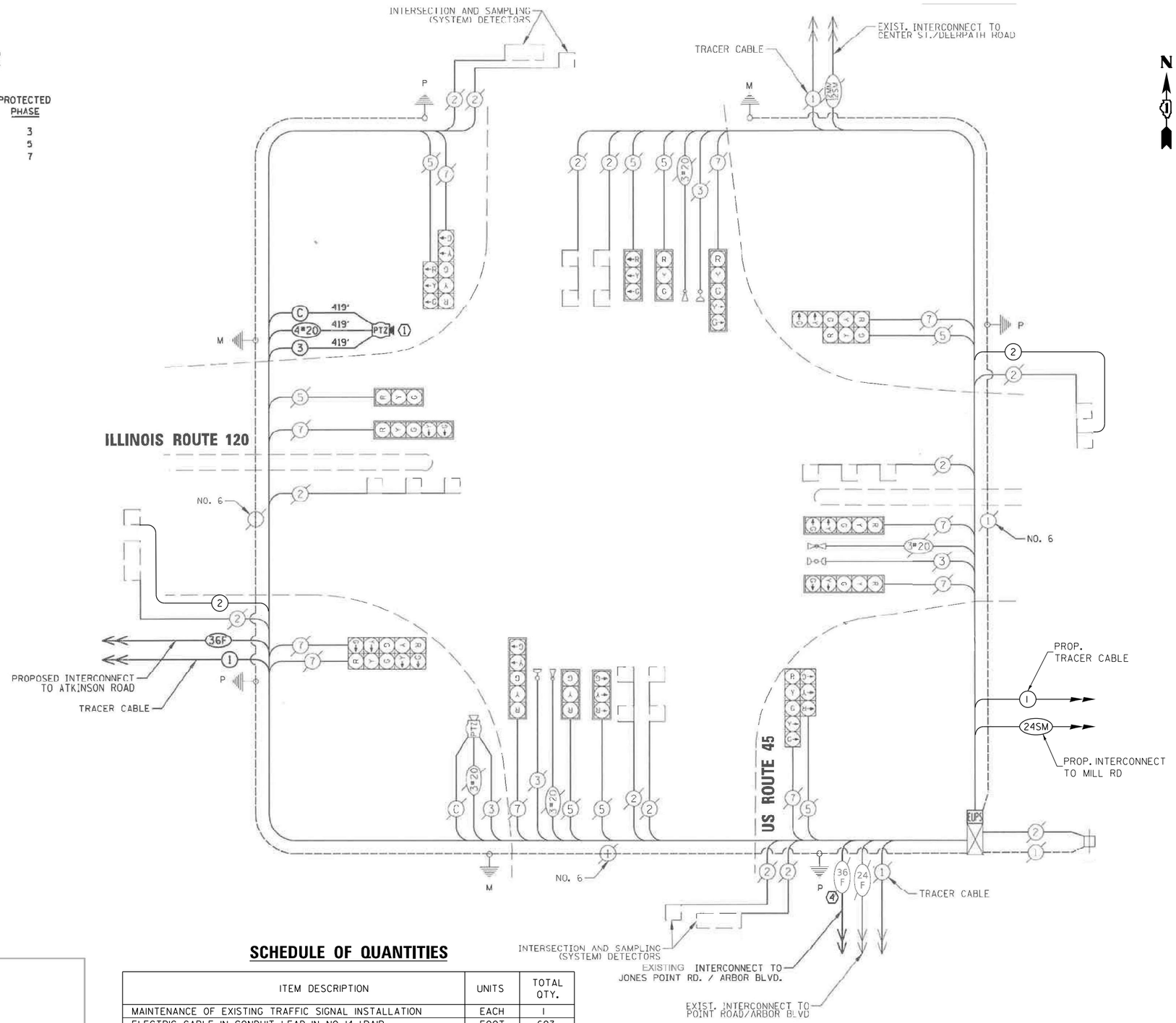
OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	6	+	7

LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
3 - SECTION	8	11	88
4 - SECTION	-	14	-
5 - SECTION	10	13	130
PROGRAMMABLE SIGNALS			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			428
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
PTZ CAMERA	2	75	150
TOTAL SERVICE WIRE SIZING =			1183

ENERGY COSTS TO:
VILLAGE OF GRAYSLAKE
10 S. SEYMOUR AVE.
GRAYSLAKE, IL 60030

ENERGY SUPPLY:
CONTACT: NEW BUSINESS DEPT
PHONE: (866) 639-3532
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: —

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	693
INDUCTIVE LOOP DETECTOR	EACH	2
LAYER II(DATALINK) SWITCH	EACH	1

TS 12305
LAKE COUNTY TACTICS SUBSYSTEM EAGLE 4C

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #20
US RTE 45 AT IL RTE 120 CABLE PLAN

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	59
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS1\Project Work\CADD 62W92\CADD.Sheets\111.US Rte 45 at IL Rte 120.CD.dgn

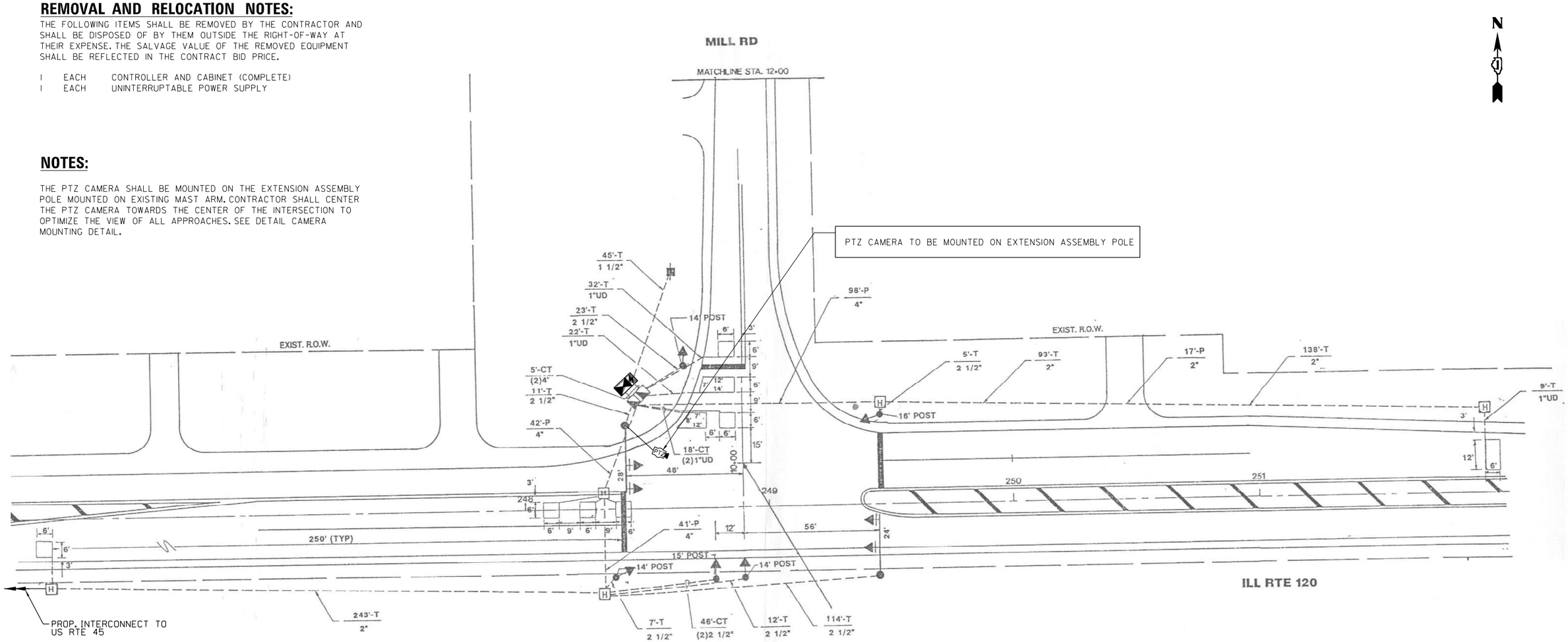
REMOVAL AND RELOCATION NOTES:

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

1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	UNINTERRUPTABLE POWER SUPPLY

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 21969
LAKE COUNTY TACTICS SUBSYSTEM EAGLE 4C

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #21
IL RTE 120 AT MILL RD
INTERSECTION PLAN

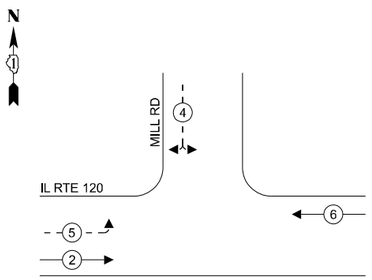
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	60
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

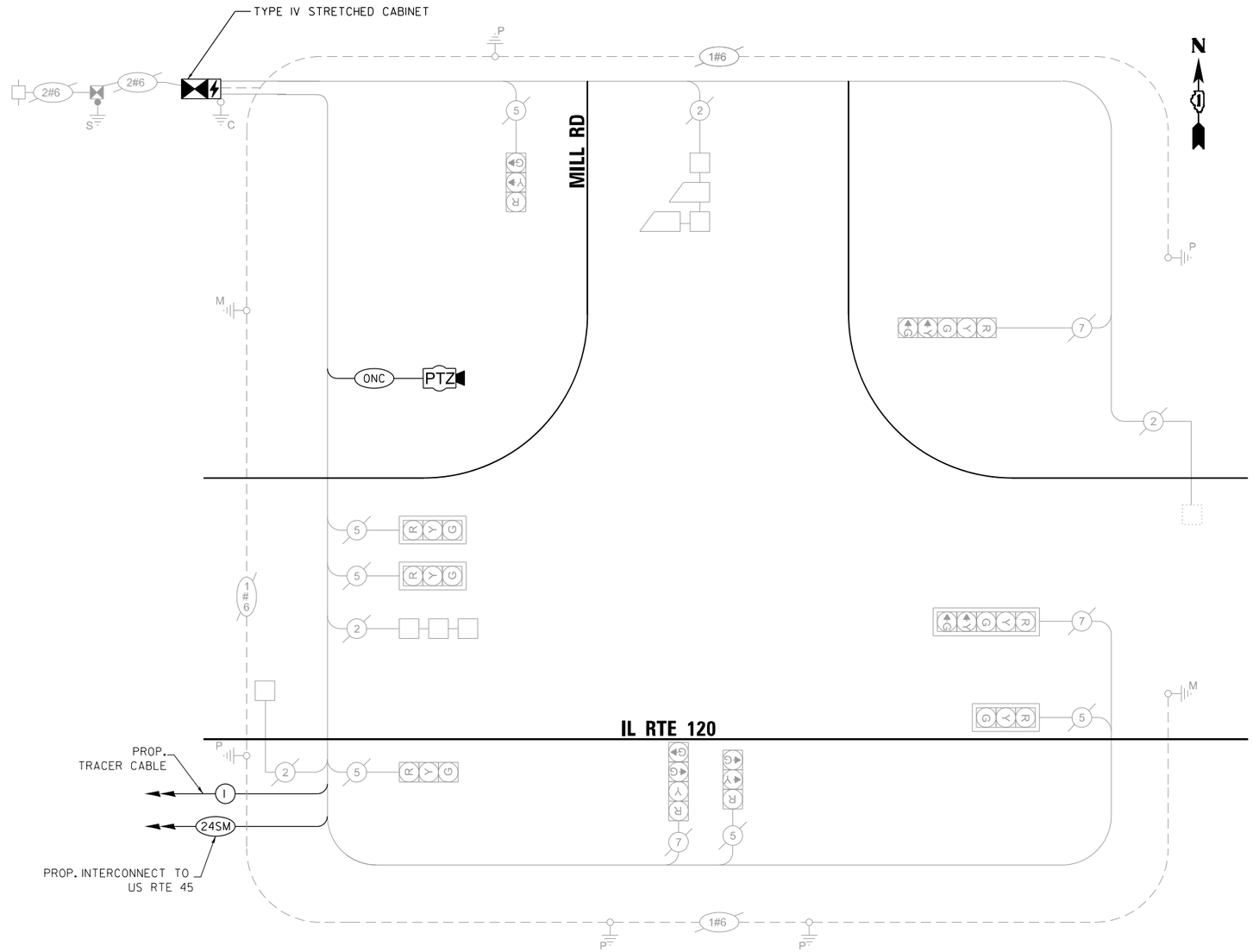
FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\112_IL Rte 120 at Mill Rd_INT.dgn

EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3 - SECTION	6	11	66.0
4 - SECTION	-	14	-
5 - SECTION	3	13	39.0
PROGRAMMABLE SIGNALS			
3 - SECTION	-	-	-
4 - SECTION	-	-	-
5 - SECTION	-	-	-
PED. SIGNAL	-	15	-
CONTROLLER	1	150	150.0
MASTER CONTROLLER	-	100	-
UPS	1	25	25.0
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			280.0
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			885.0

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	69
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1

NOTE:
THE TRAFFIC SIGNAL CONTROLLER FOR THIS LOCATION SHALL BE "EAGLE" TO MATCH EXISTING ADJACENT SYSTEM.

TS 21969
LAKE COUNTY TACTICS SUBSYSTEM EAGLE 4C

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\113_IL Rte 120 at Mill Rd_CD.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #21
IL RTE 120 AT MILL RD CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	61
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

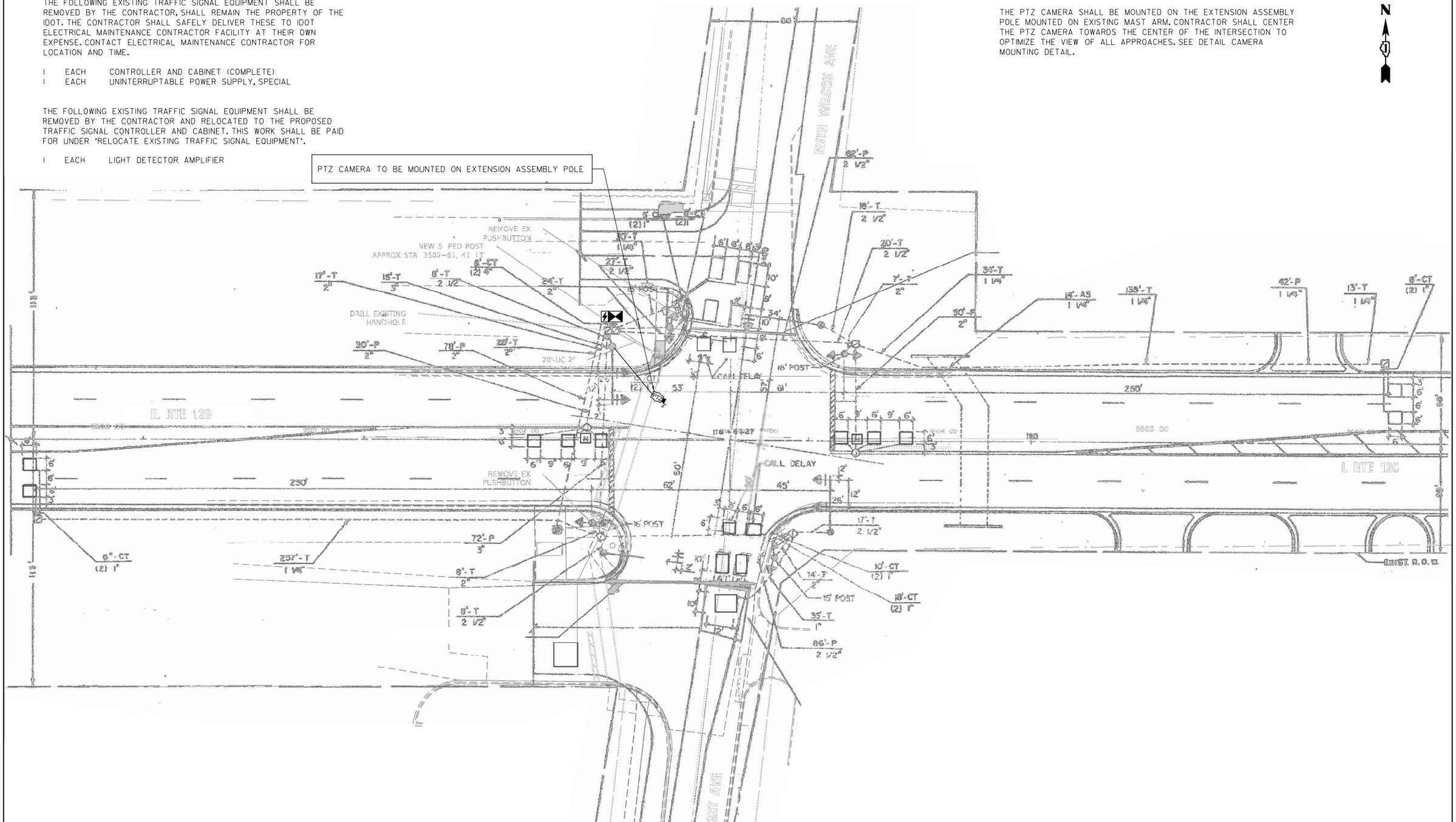
1 EACH CONTROLLER AND CABINET (COMPLETE)
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER 'RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT'.

1 EACH LIGHT DETECTOR AMPLIFIER

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 7005
LAKE COUNTY TACTICS SUBSYSTEM EAGLE 4P

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #22
IL RTE 120 (BELVIDERE RD) AT KNIGHT AVE/RUTH WILCOX AVE INTERSECTION PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

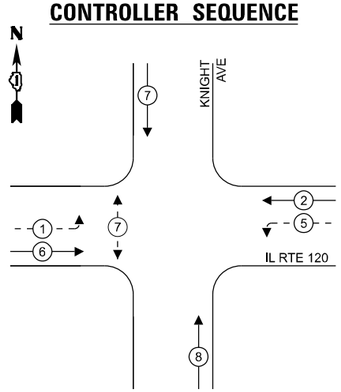
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	62

CONTRACT NO. 62W92

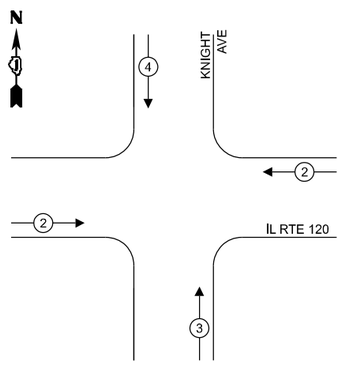
FED. ROAD DIST. NO. . | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\114_IL Rte 120 at Ruth Wilcox Ave_INT.dgn

EXISTING AND PROPOSED CONTROLLER SEQUENCE

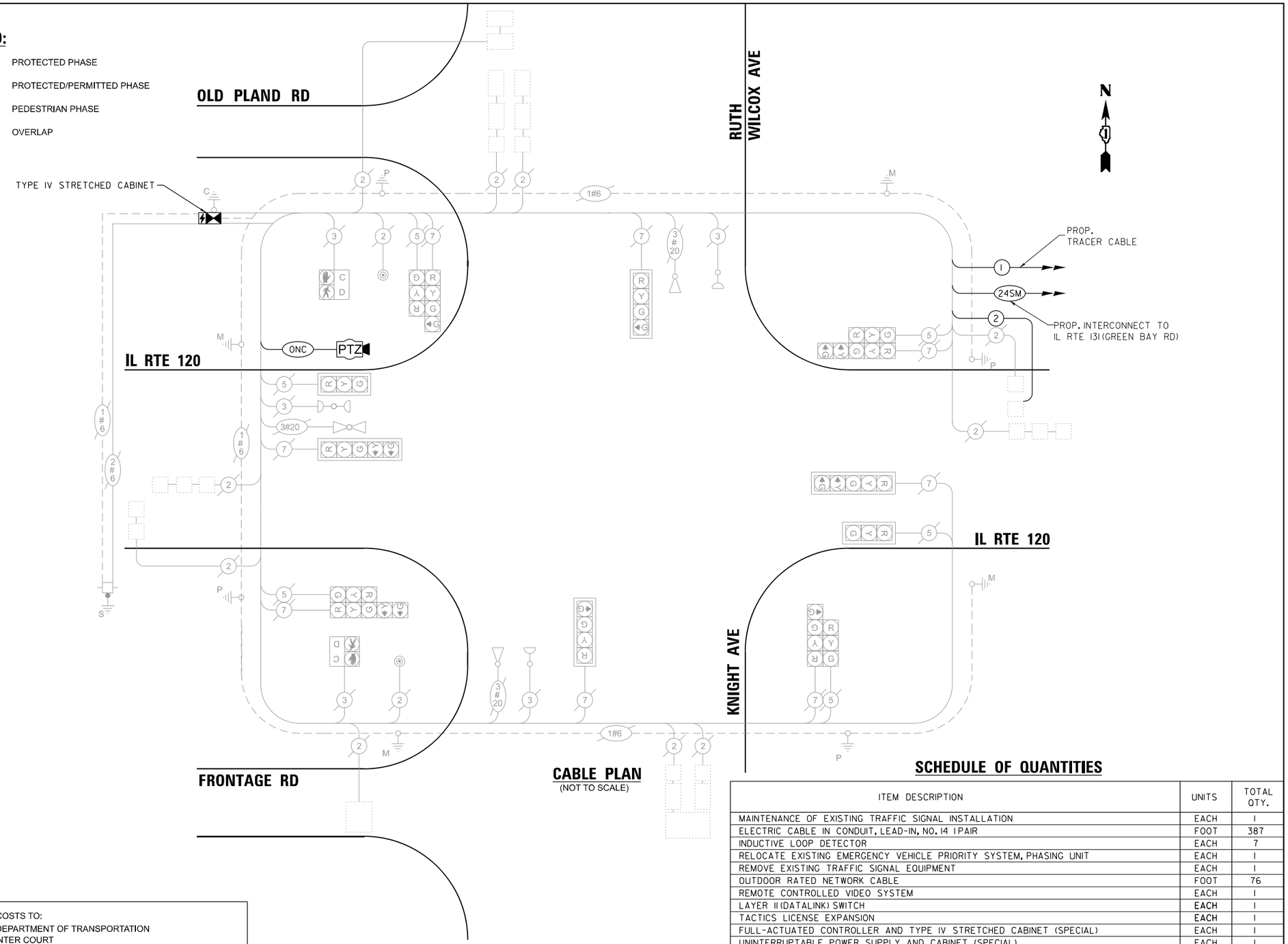


EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	6	11	66.0
	4 - SECTION	3	14	42.0
	5 - SECTION	5	13	65.0
PROGRAMMABLE SIGNALS				
	3 - SECTION	-	-	-
	4 - SECTION	-	-	-
	5 - SECTION	-	-	-
PED. SIGNAL		2	15	30.0
CONTROLLER		1	150	150.0
MASTER CONTROLLER		-	100	-
UPS		1	25	25.0
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH II OR III		-	35	-
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING =			378.0	
UPS CHARGING		1	225	225.0
BATTERY HEATER MAT		1	180	180.0
CABINET HEATER		1	200	200.0
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
TOTAL SERVICE WIRE SIZING =			983.0	

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: TERRI BLECK
PHONE: 847-816-5239
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

NOTE:
THE TRAFFIC SIGNAL CONTROLLER FOR THIS LOCATION SHALL BE "EAGLE" TO MATCH EXISTING ADJACENT SYSTEM.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	387
INDUCTIVE LOOP DETECTOR	EACH	7
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	76
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II(DATALINK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1

TS 7005
LAKE COUNTY TACTICS SUBSYSTEM EAGLE 4P

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #22
IL RTE 120 (BELVIDERE RD) AT KNIGHT AVE/RUTH WILCOX AVE
CABLE PLAN

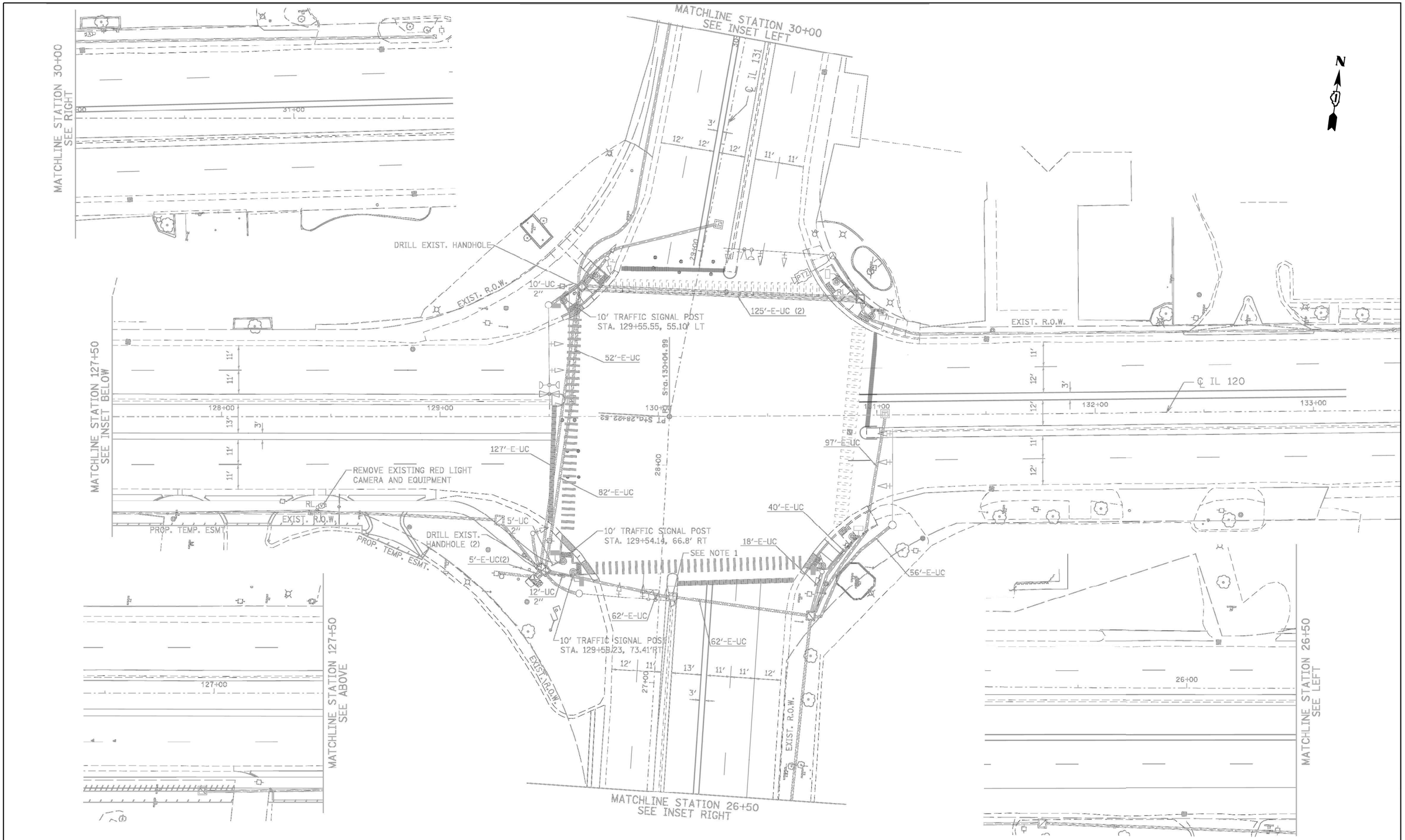
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	63

CONTRACT NO. 62W92

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\115_IL Rte 120 at Ruth Wilcox Ave_CD.dgn



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 7820
LAKE COUNTY TACTICS
SUBSYSTEM EAGLE 4P

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #23
IL RTE 131 AT IL RTE 120
INTERSECTION PLAN

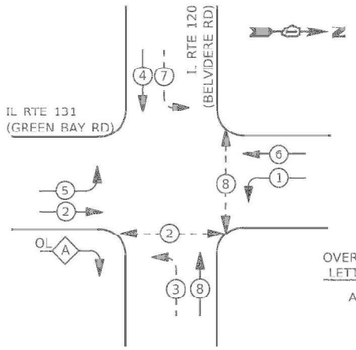
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	64
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\116_IL Rte 131 at IL Rte 120_INT.dgn

EXISTING CONTROLLER SEQUENCE



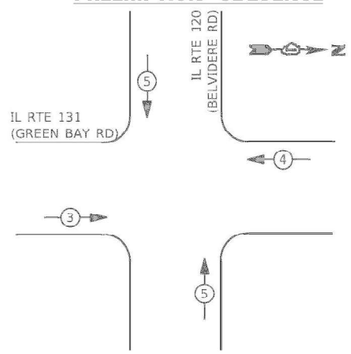
LEGEND:

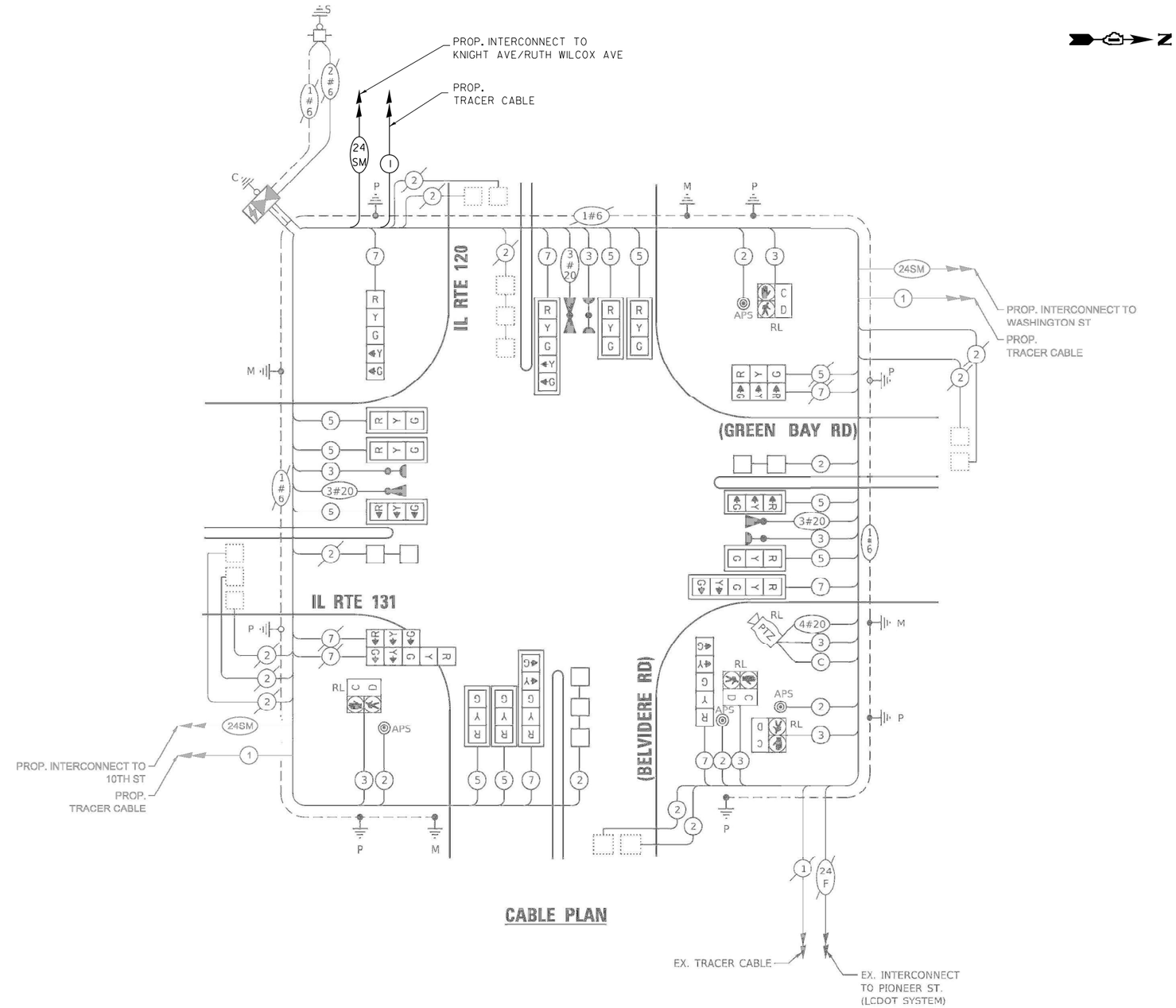
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





CABLE PLAN

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
3 - SECTION	12	11	132
4 - SECTION	-	14	-
5 - SECTION	6	13	78
PROGRAMMABLE SIGNALS			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			480
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
PTZ CAMERA	1	75	75
TOTAL SERVICE WIRE SIZING =			1160

ENERGY COSTS TO:
CITY OF WAUKEGAN
100 N. M.L.K. JR. AVE.
WAUKEGAN, IL 60085
ENERGY SUPPLY:
CONTACT: NEW BUSINESS DEPT
PHONE: (866) 639-3532
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: —

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

TS 7820
LAKE COUNTY TACTICS SUBSYSTEM EAGLE 4P

USER NAME = $USER$	DESIGNED - EA	REVISED - 12-1-2025	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

LOCATION #23
IL RTE 131 AT IL RTE 120
CABLE PLAN

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	65

CONTRACT NO. 62W92

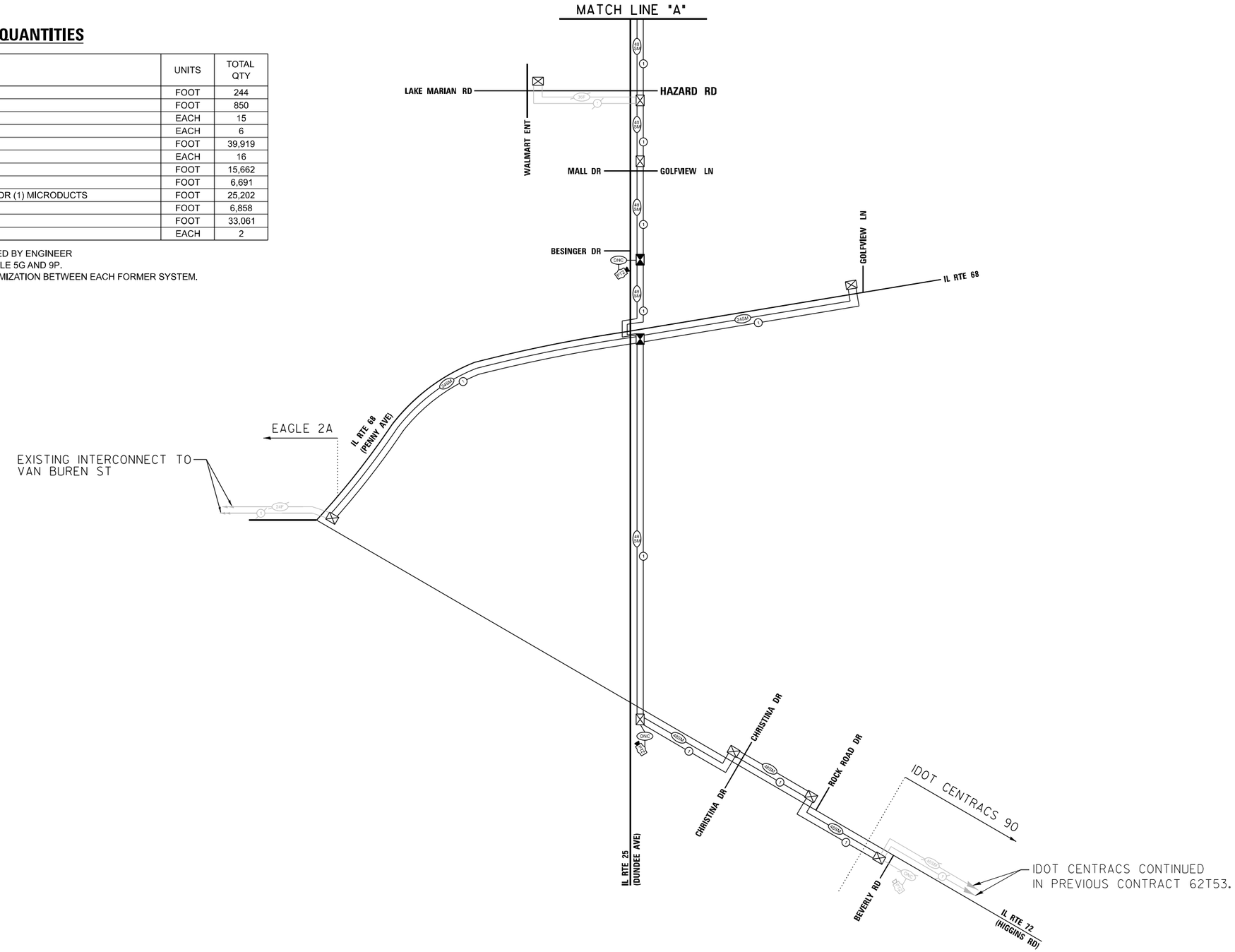
FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\117_IL Rte 131 at IL Rte 120_CD.dgn

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	244
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	850
	HANDHOLE	EACH	15
	HEAVY-DUTY HANDHOLE	EACH	6
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	39,919
	DRILL EXISTING HANDHOLE	EACH	16
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	15,662
*	ROD AND CLEAN EXISTING CONDUIT	FOOT	6,691
	UNDERGROUND CONDUIT, MULTI-DUCT, 3 WAY - 22MM (2), 1.25" SDR (1) MICRODUCTS	FOOT	25,202
	FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	6,858
	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	33,061
**	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	2

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY ENGINEER
** SYSTEM OPTIMIZATION SHALL CONSIST OF IDOT FORMER EAGLE 5G AND 9P.
SCAT CONSULTANT SHALL ALSO IDENTIFY ANY POSSIBLE OPTIMIZATION BETWEEN EACH FORMER SYSTEM.



NOTES:

1. CONTRACTOR SHALL PROVIDE APPROXIMATELY 100' OF SLACK AT DOUBLE HANDHOLE NEXT TO CABINET FOR ALL THE LOCATIONS WITH 48SM FIBER CABLE.

IDOT TACTICS
FORMER EAGLE 5G & 9P
EAGLE 2A

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\118.Schem.Interconnect.1.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERALL INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITES
IDOT ZONES 2A, 5G, 9P

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

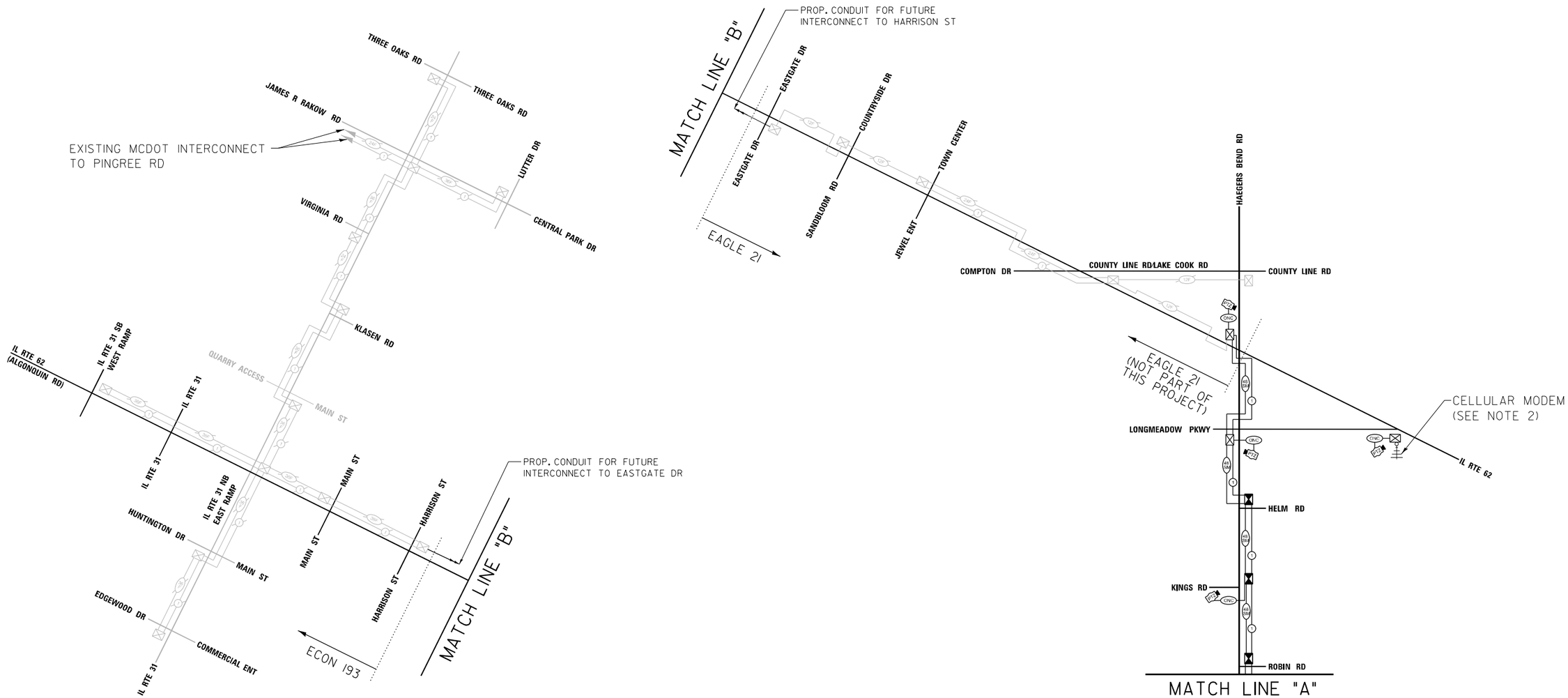
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	66
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. CONTRACTOR SHALL PROVIDE APPROXIMATELY 100' OF SLACK AT DOUBLE HANDHOLE NEXT TO CABINET FOR ALL THE LOCATIONS WITH 48SM FIBER CABLE.

2. THE SYSTEM SHALL USE A CELLULAR MODEM IN LIEU OF A TELEPHONE LINE, SEE SPECIAL PROVISION FOR CELLULAR COMMUNICATION SYSTEM.



IDOT TACTICS
FORMER EAGLE 5G
EAGLE 21
ECON 193

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

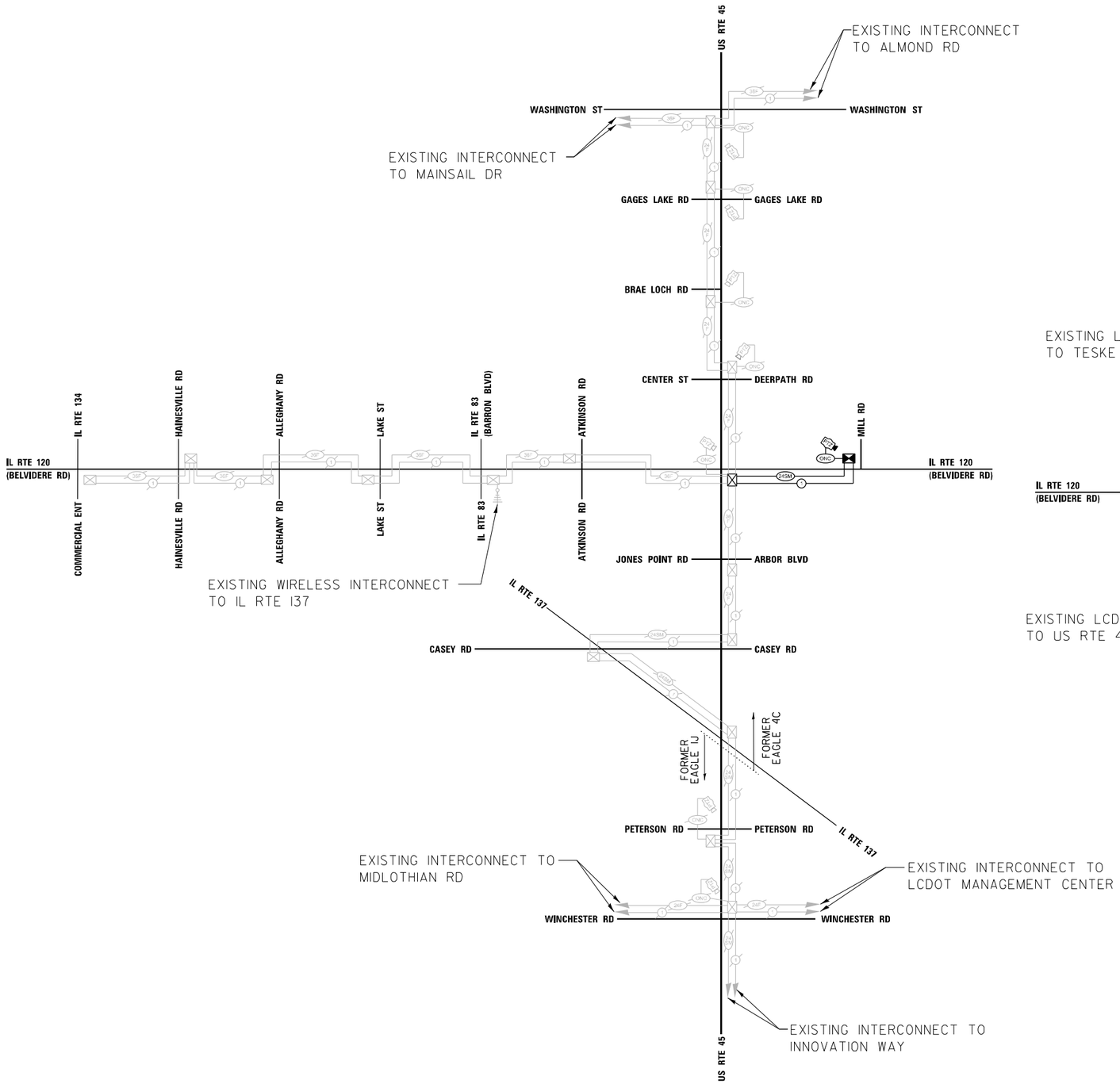
OVERALL INTERCONNECT SCHEMATIC
IDOT ZONES 21, 5G, 193

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

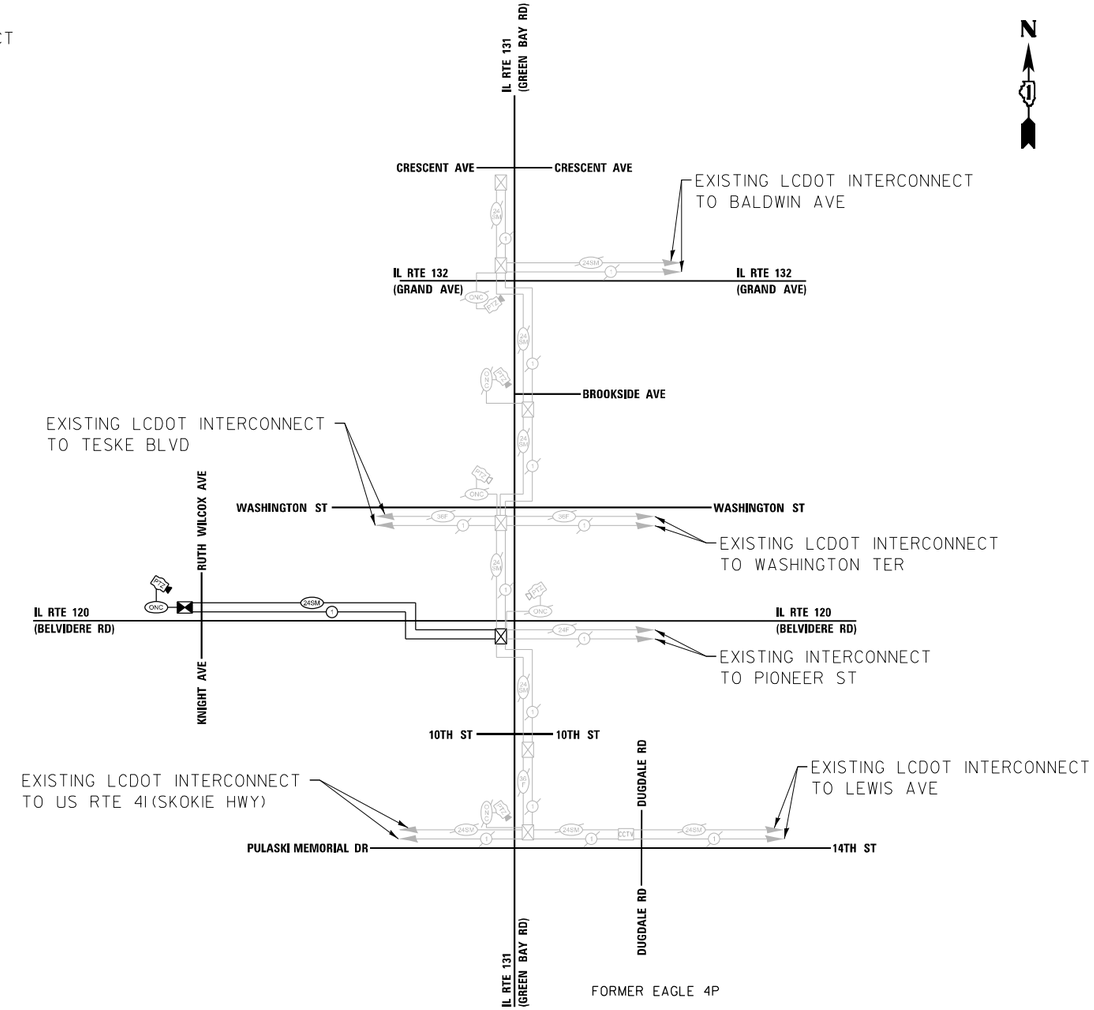
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	67
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\119_Schem_Interconnect_2.dgn



SECTION 4C & 198



SECTION 4P

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	90
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	4
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	8,027
DRILL EXISTING HANDHOLE	EACH	4
UNDERGROUND CONDUIT, MULTI-DUCT, 3-22MM (2), 1.25 SDR 11 (1) MICRODUCTS	FOOT	6,757
FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	8,027
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2

LAKE COUNTY PASSAGE
FORMER ECON 198
FORMER EAGLE 4C & 4P

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phl TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\120_Schem_Interconnect_3.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

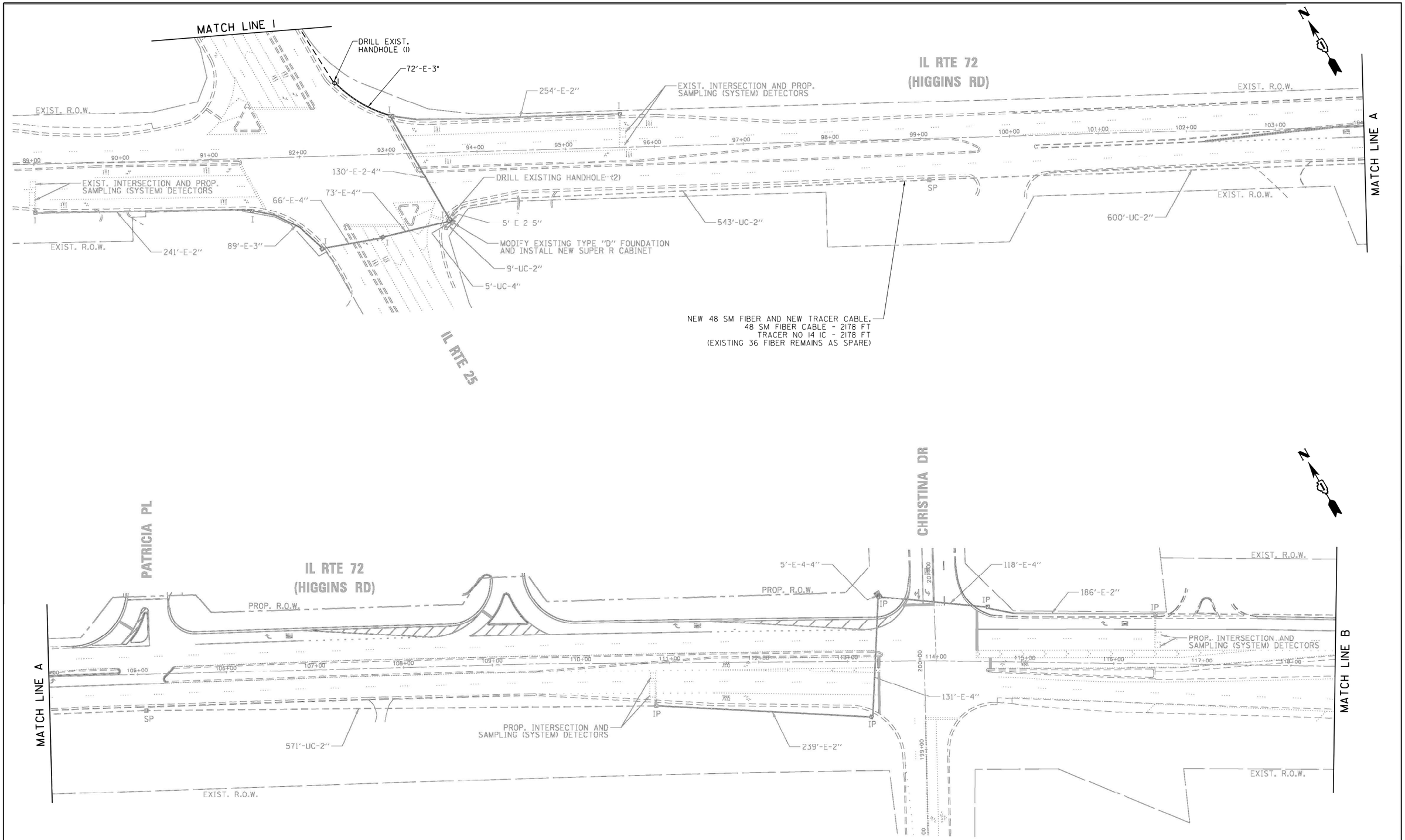
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERALL INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITES
IDOT ZONES 4C, 4P, 198, AND LAKE COUNTY PASSAGE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	68
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



"EXISTING INTERCONNECT PLAN FOR REFERENCE ONLY"

IDOT TACTICS
FORMER EAGLE 9P

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

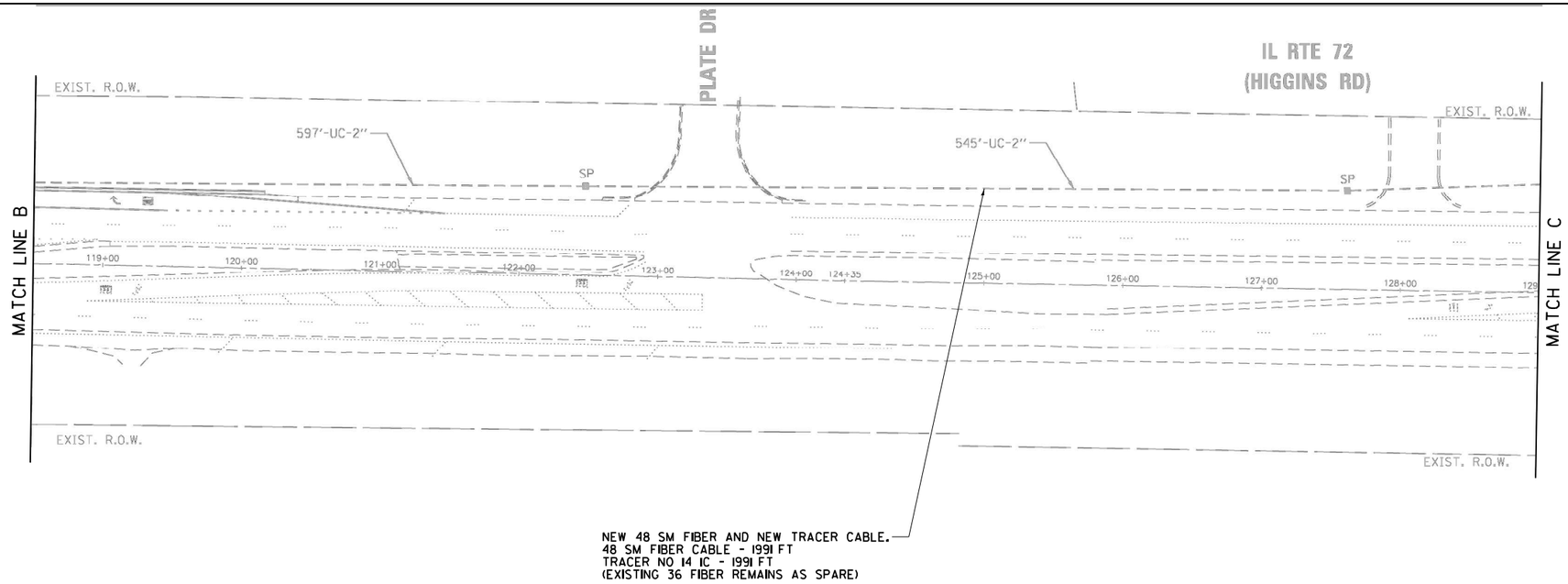
EXISTING INTERCONNECT PLAN
IL RTE 72 (HIGGINS RD) AT IL RTE 25 AND CHRISTINA DR

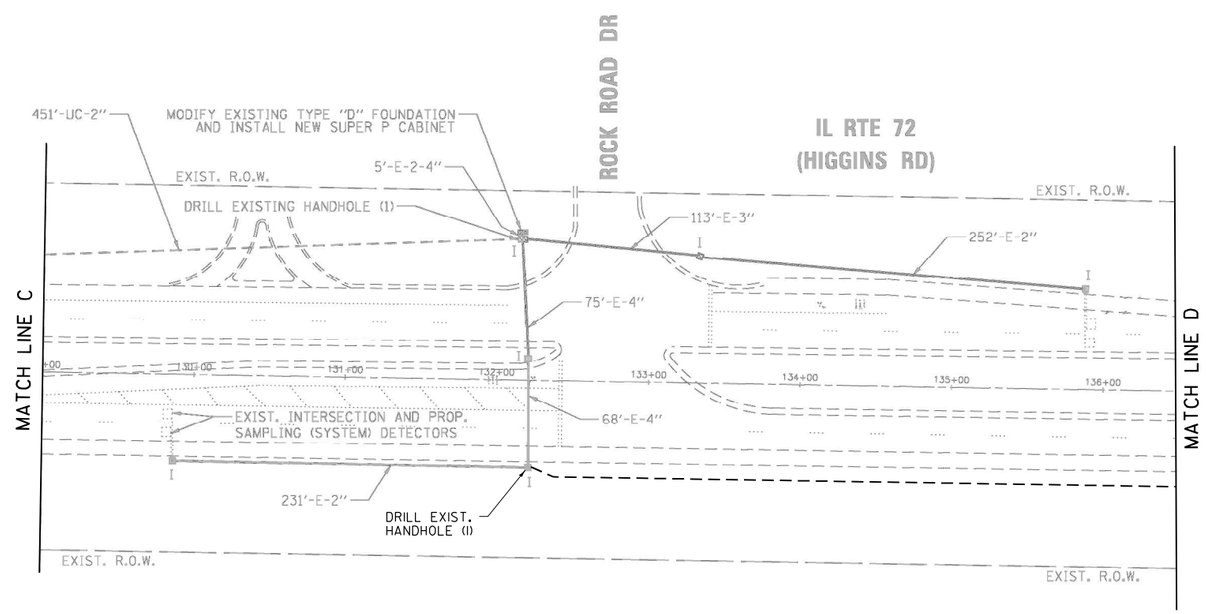
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	69
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\121_Interconnect Plan for IL-72 West to East from IL Rte 25 to Rock Road Dr-1.dgn





"EXISTING INTERCONNECT PLAN FOR REFERENCE ONLY"

IDOT TACTICS
FORMER EAGLE 9P

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phl TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\122_Interconnect Plan for IL-72 West to East from IL Rte 25 to Rock Road Dr-2.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

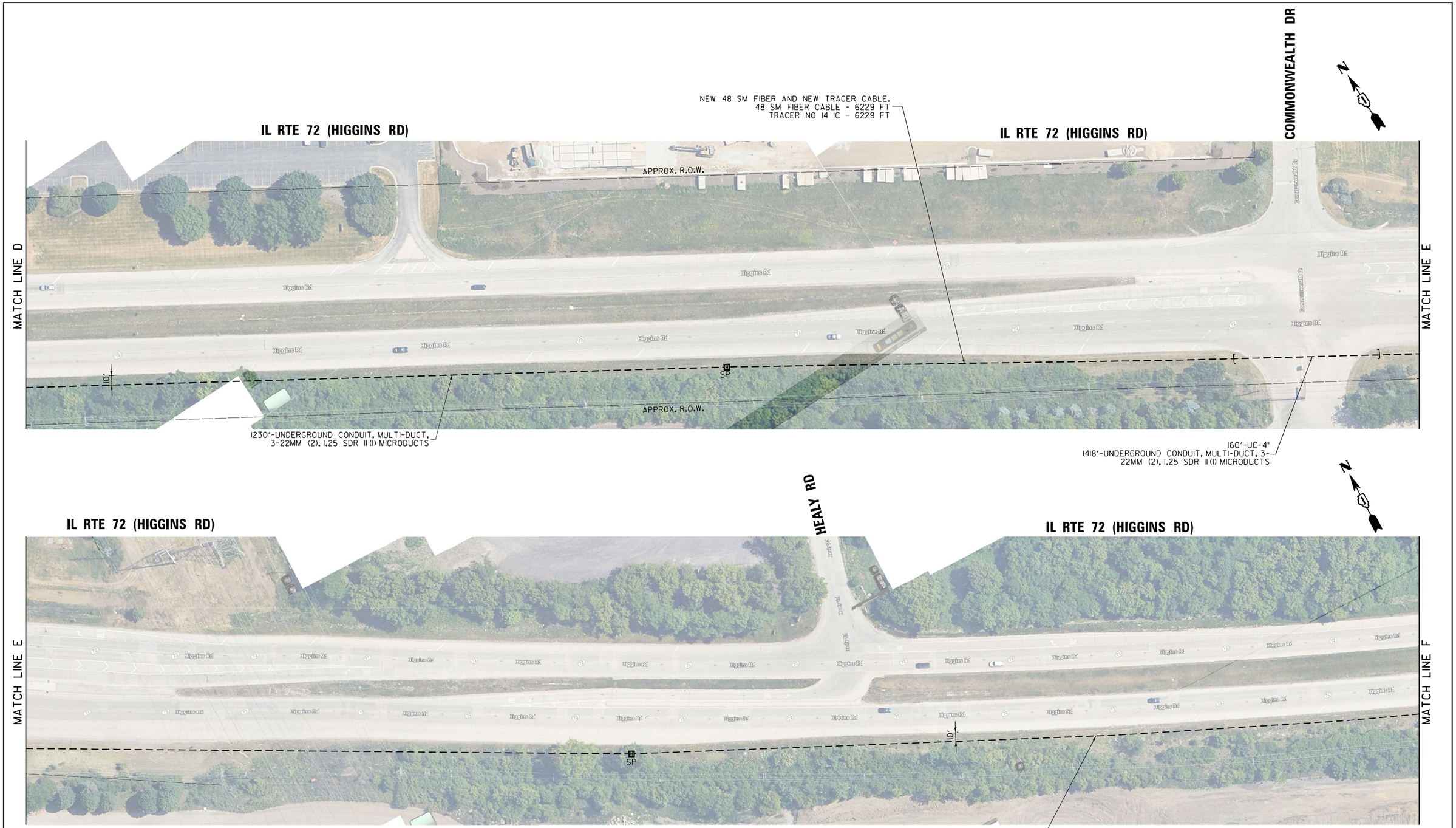
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING INTERCONNECT PLAN
IL RTE 72 (HIGGINS RD) AT ROCK ROAD DR

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	70
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD Sheets\123 Interconnect Plan for IL-72 West to East from IL Rte 25 to Rock Road Dr-3.dgn

IDOT TACTICS

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

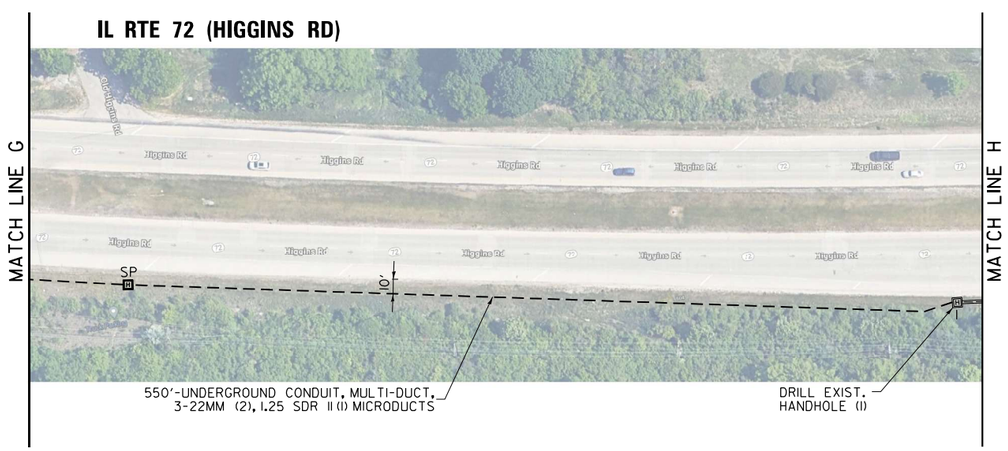
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

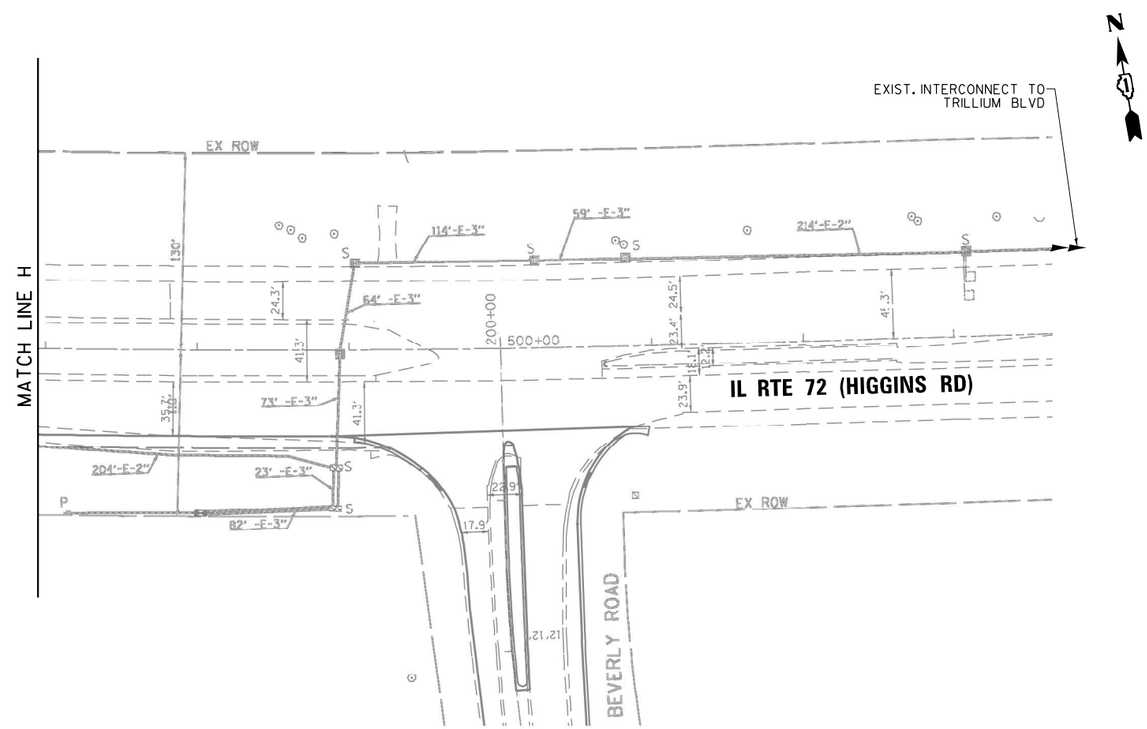
PROPOSED INTERCONNECT PLAN
IL RTE 72 (HIGGINS RD) AT COMMONWEALTH DR AND HEALY RD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	71
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT





IDOT TACTICS
IDOT CENTRACS SUBSYSTEM 90

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

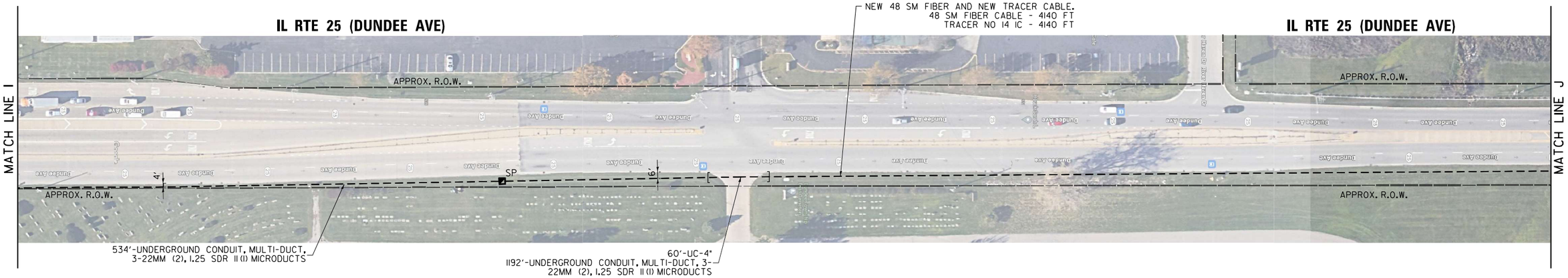
PROPOSED INTERCONNECT PLAN
IL RTE 72 (HIGGINS RD) AT BEVERLY RD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	72
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\124_Interconnect Plan for IL-72 West to East from IL Rte 25 to Rock Road Dr-4.dgn



IDOT TACTICS

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

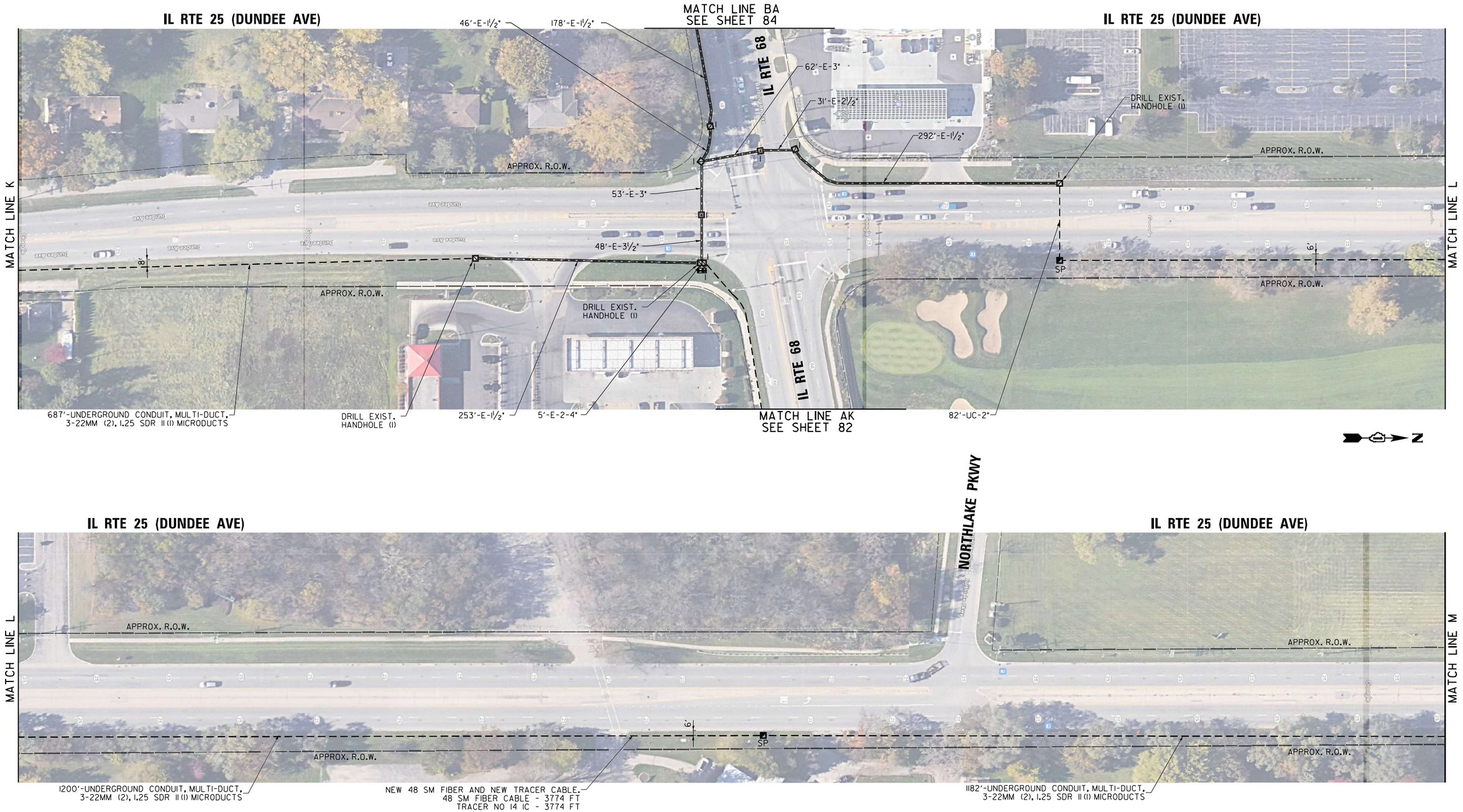
PROPOSED INTERCONNECT PLAN
IL RTE 25 (DUNDEE AVE) AT IL RTE 72 (HIGGINS RD)

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	73
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Ver Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\125_Interconnect Plan for IL-25 South to North from IL Rte 72 to Beasinger Dr.idgn



IDOT TACTICS

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

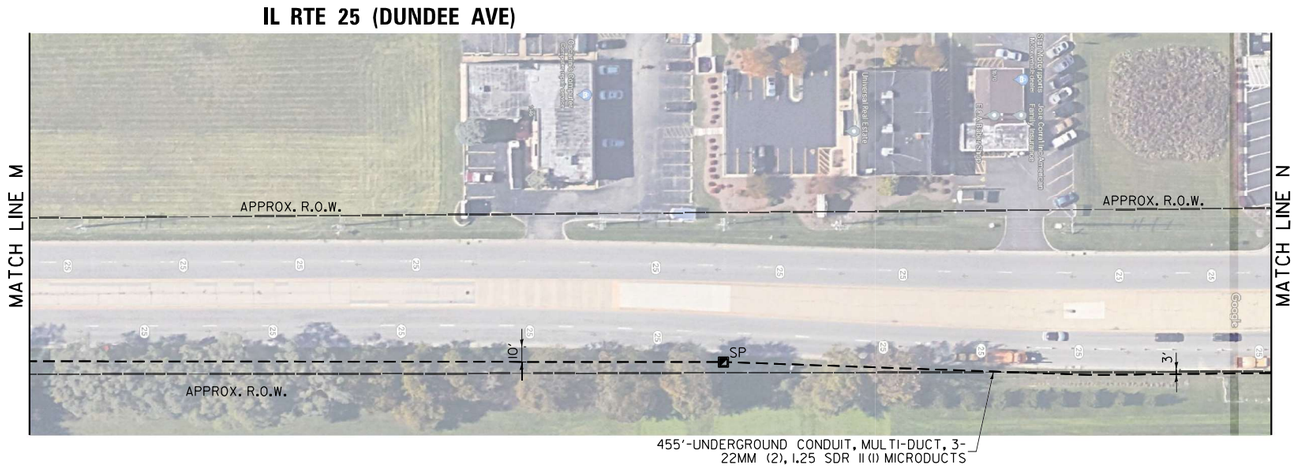
PROPOSED INTERCONNECT PLAN
IL RTE 25 (DUNDEE AVE) AT IL RTE 68

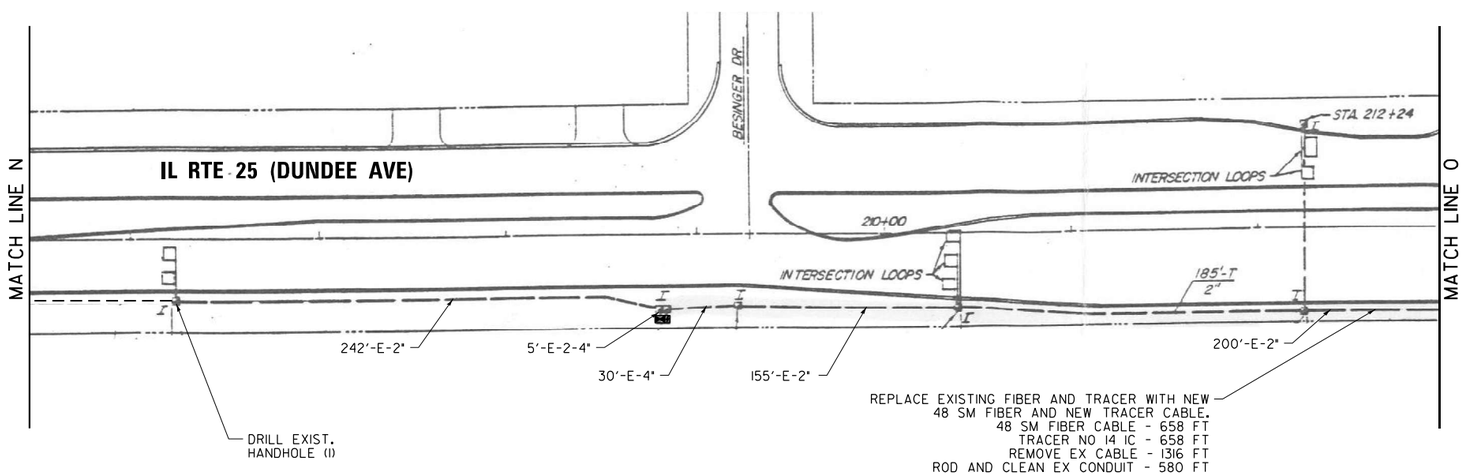
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	74
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\126.Interconnect Plan for IL-25 South to North from IL Rte 72 to Besinger Dr-2.dgn





IDOT TACTICS

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

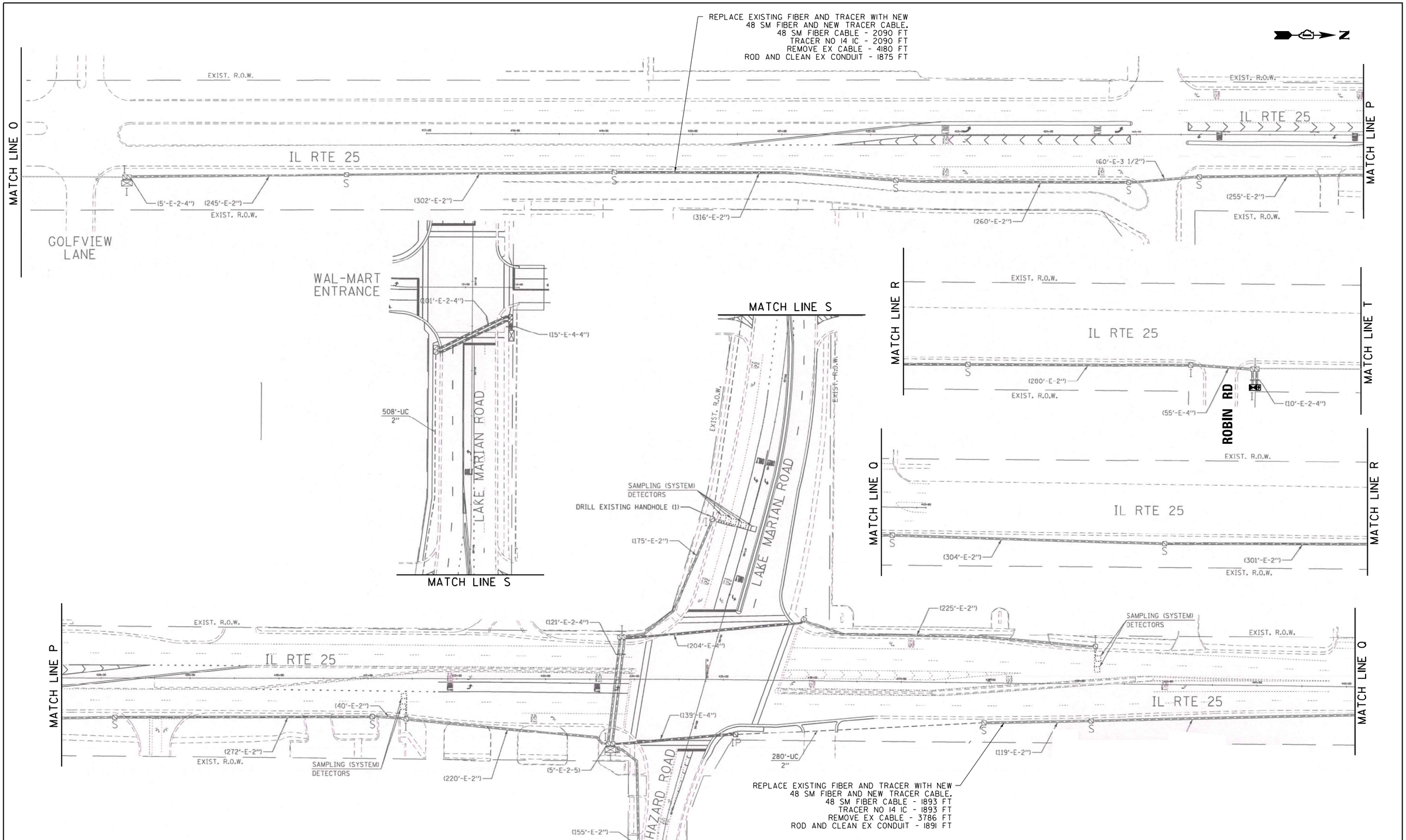
PROPOSED INTERCONNECT PLAN
IL RTE 25 (DUNDEE AVE) AT BESINGER DR

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	75
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\127_Interconnect Plan for IL-25 South to North from IL Rte 72 to Besinger Dr_3.dgn



"EXISTING INTERCONNECT PLAN FOR REFERENCE ONLY"

IDOT TACTICS
FORMER EAGLE 5G

FILE NAME = S:\Projects\2216 - IDOT D1 Ver Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\128_Interconnect Plan for IL-25 South to North from Besinger Dr to Helm Rd_4.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

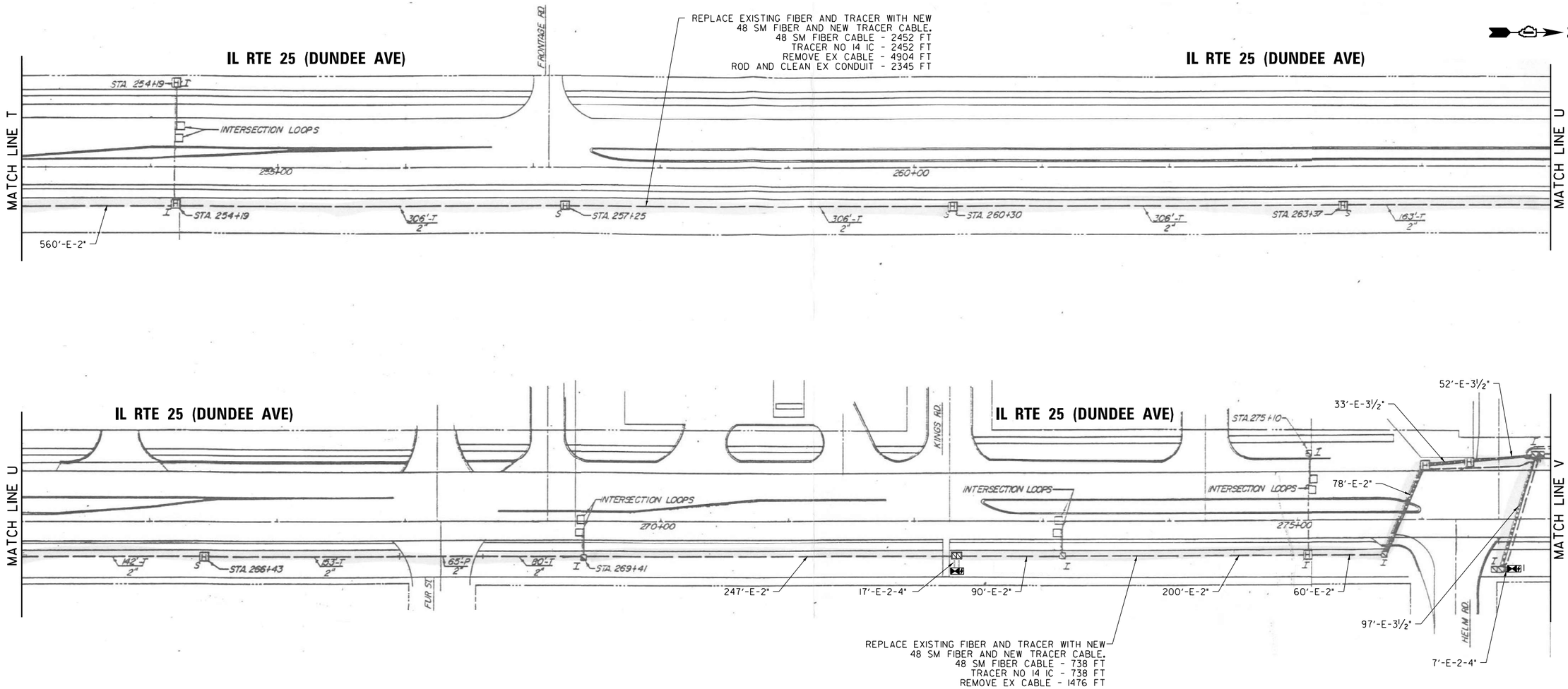
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

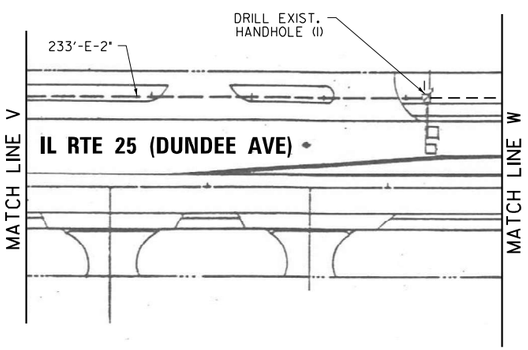
EXISTING INTERCONNECT PLAN
IL RTE 25 (DUNDEE AVE) AT GOLFVIEW LN AND LAKE MARIAN RD AND WALMART ENT AND ROBIN RD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	76
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT





"EXISTING INTERCONNECT PLAN FOR REFERENCE ONLY"

IDOT TACTICS
FORMER EAGLE 5G

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

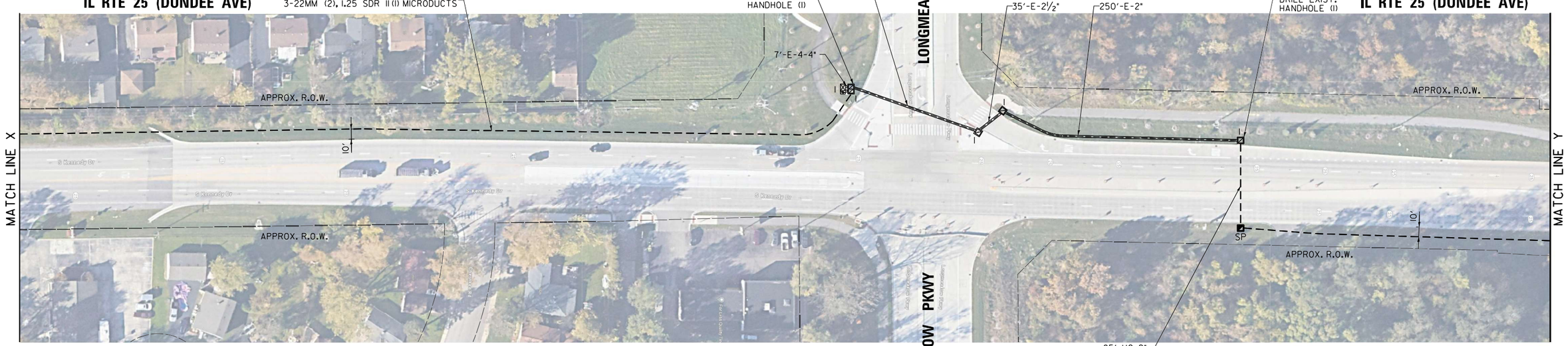
EXISTING INTERCONNECT PLAN
IL RTE 25 (DUNDEE AVE) AT KINGS RD AND HELM RD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	77
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\129_Interconnect Plan for IL-25 South to North from Besinger Dr to Helm Rd.5.dgn



IDOT TACTICS

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

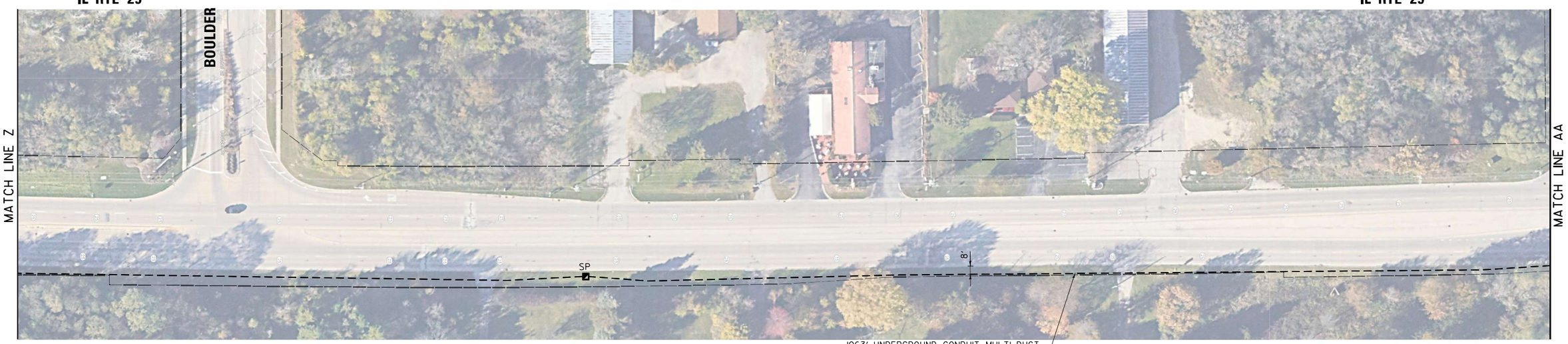
PROPOSED INTERCONNECT PLAN
IL RTE 25 (DUNDEE AVE) AT LONGMEADOW PKWY

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	78
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD.Sheets\130.Interconnect Plan for IL-25 South to North from Bessinger Dr to Helm Rd.dgn



IDOT TACTICS

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

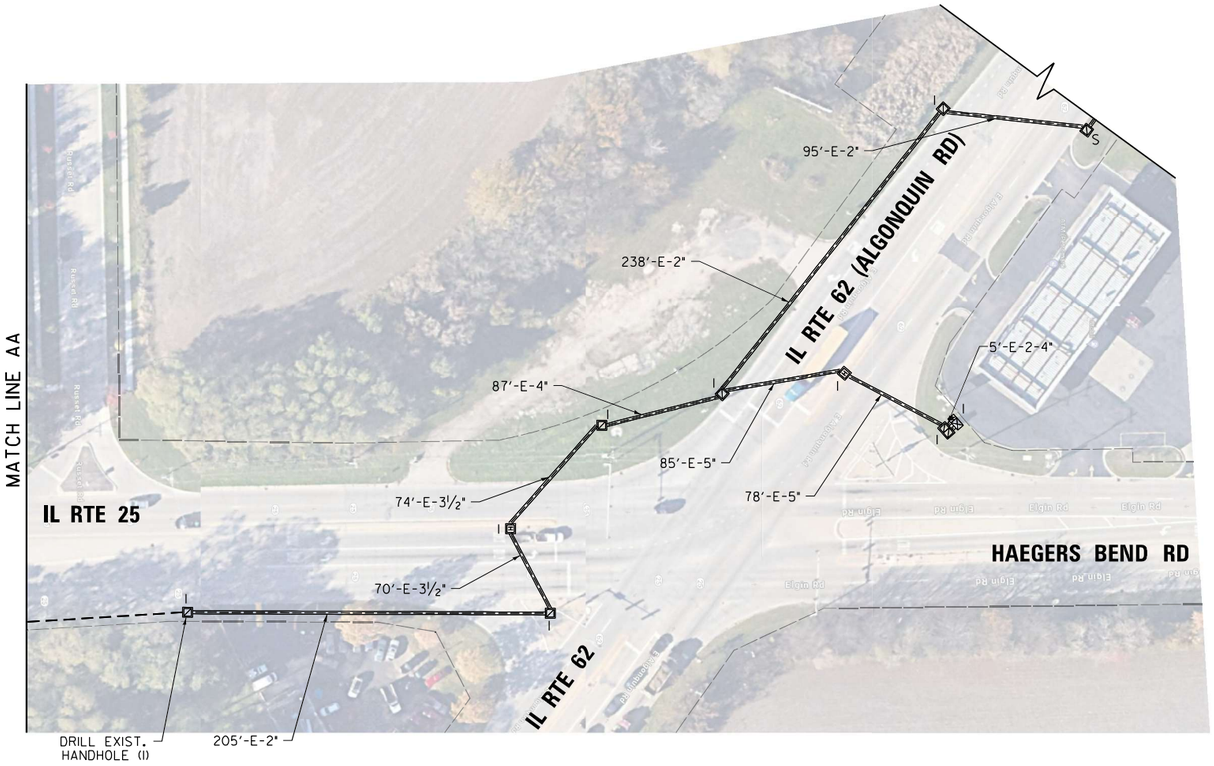
PROPOSED INTERCONNECT PLAN
IL RTE 25 AT SILVERSTONE DR AND BOULDER DR

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	79
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\131_Interconnect Plan for IL-25 South to North from Helm Rd to IL Rte 62_7.dgn



"EXISTING INTERCONNECT PLAN FOR REFERENCE ONLY"

EAGLE 21

USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

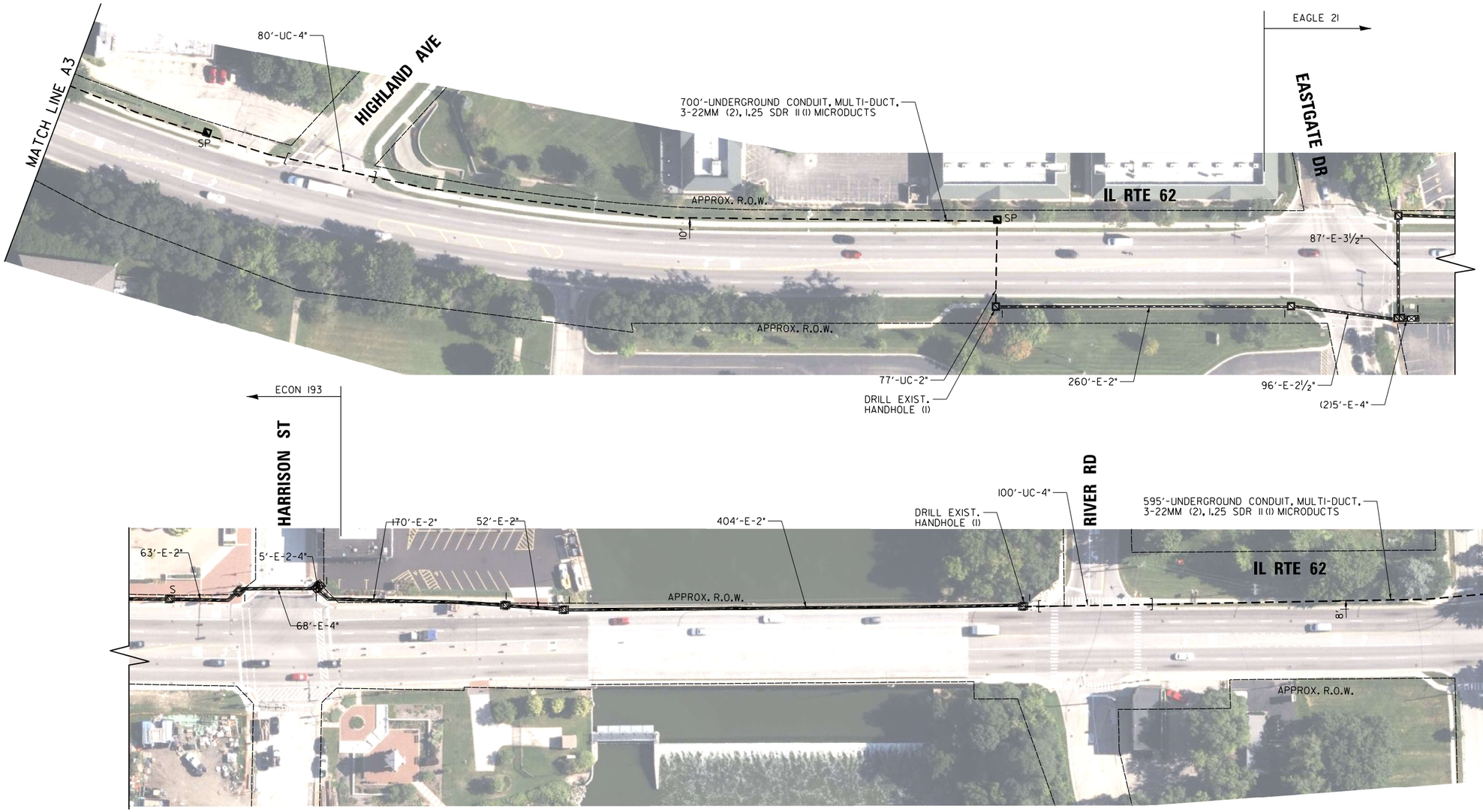
PROPOSED INTERCONNECT PLAN
IL RTE 25 AT IL RTE 62 (ALGONQUIN RD) &
IL RTE 62 (ALGONQUIN RD) AT COUNTY LINE RD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	80
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\132_Interconnect Plan for IL-25 South to North from Helm Rd to IL Rte 62_8.dgn



EAGLE 21
ECON 193

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

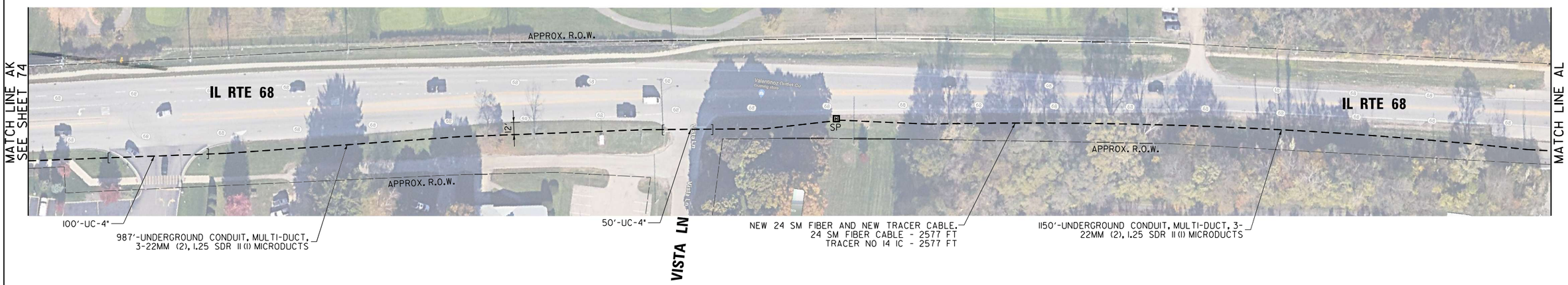
PROPOSED INTERCONNECT PLAN
IL RTE 62 (ALGONQUIN RD) AT EASTGATE DR AND HARRISON ST

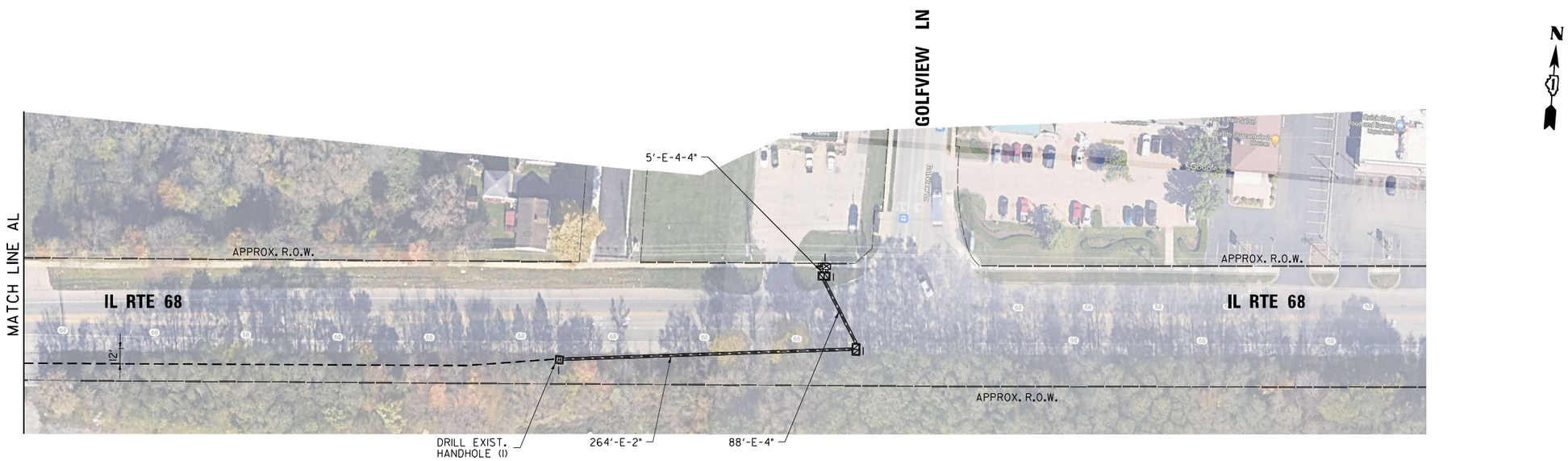
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	81
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME =
S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\134a_Interconnect Plan for IL-62 West to East from Eastgate Dr to Harrison S.dgn





FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\137_Interconnect Plan for IL-68 West to East from IL Rte 25 to Golfview Ln.i.dgn

IDOT TACTICS

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

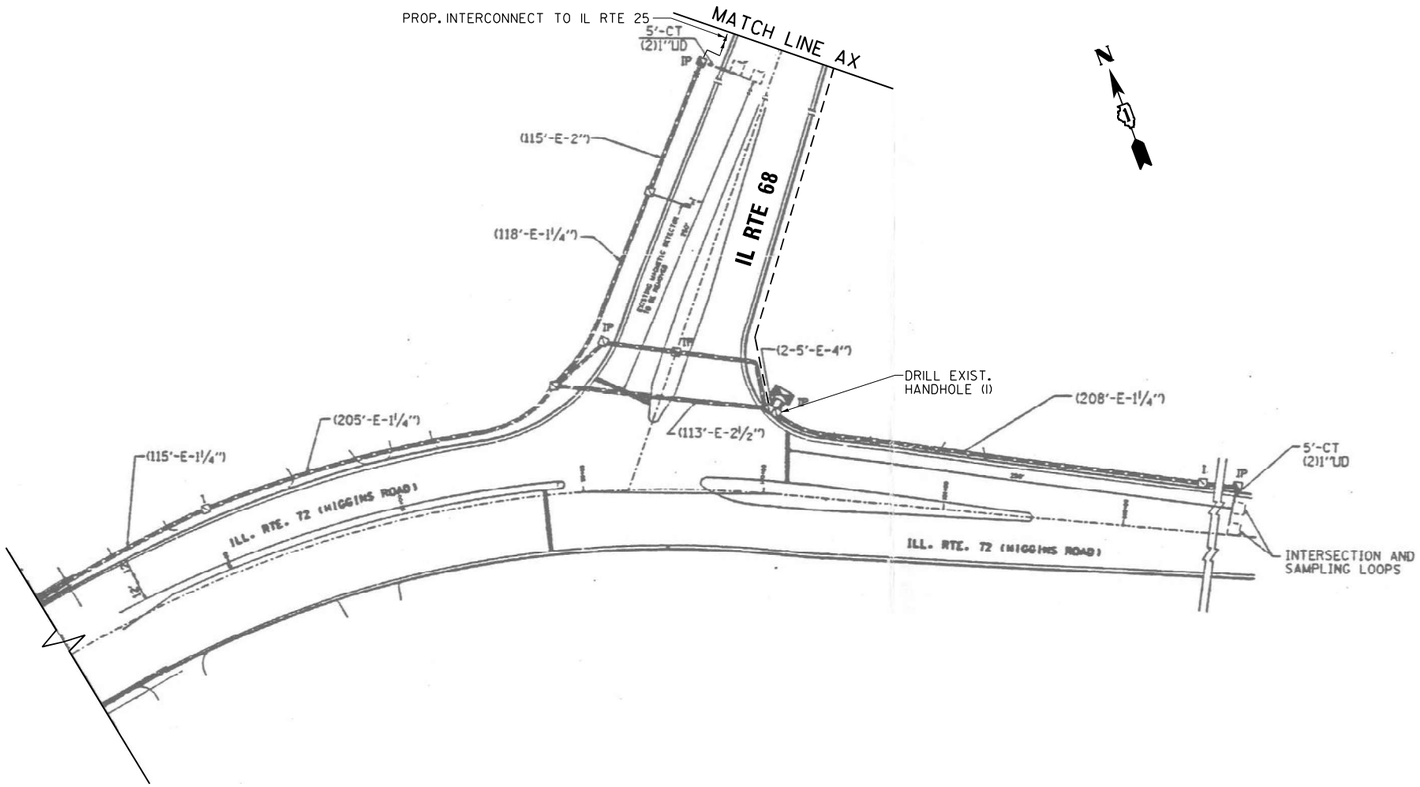
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
IL RTE 68 AT GOLFVIEW LN

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	82
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



EAGLE 2A

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

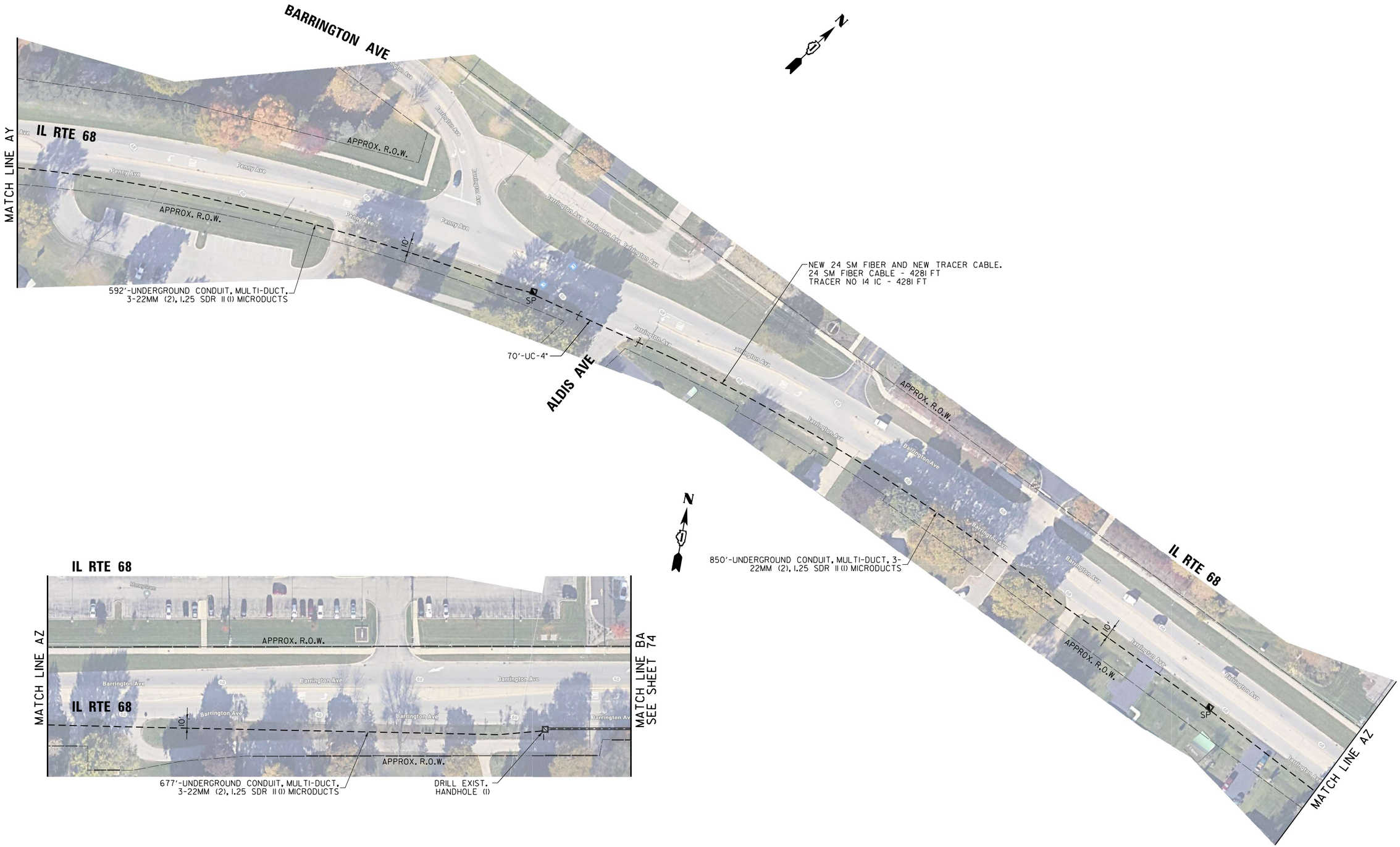
PROPOSED INTERCONNECT PLAN
IL RTE 72 (MAIN ST) AT IL RTE 68 (PENNY AVE)

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	83
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\143_Interconnect Plan for IL-72 West to East from Sleepy Hollow Rd to IL Rte 68.6.dgn



FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\144_Interconnect Plan for IL-72 West to East from Sleepy Hollow Rd to IL Rte 68_7.dgn

IDOT TACTICS

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

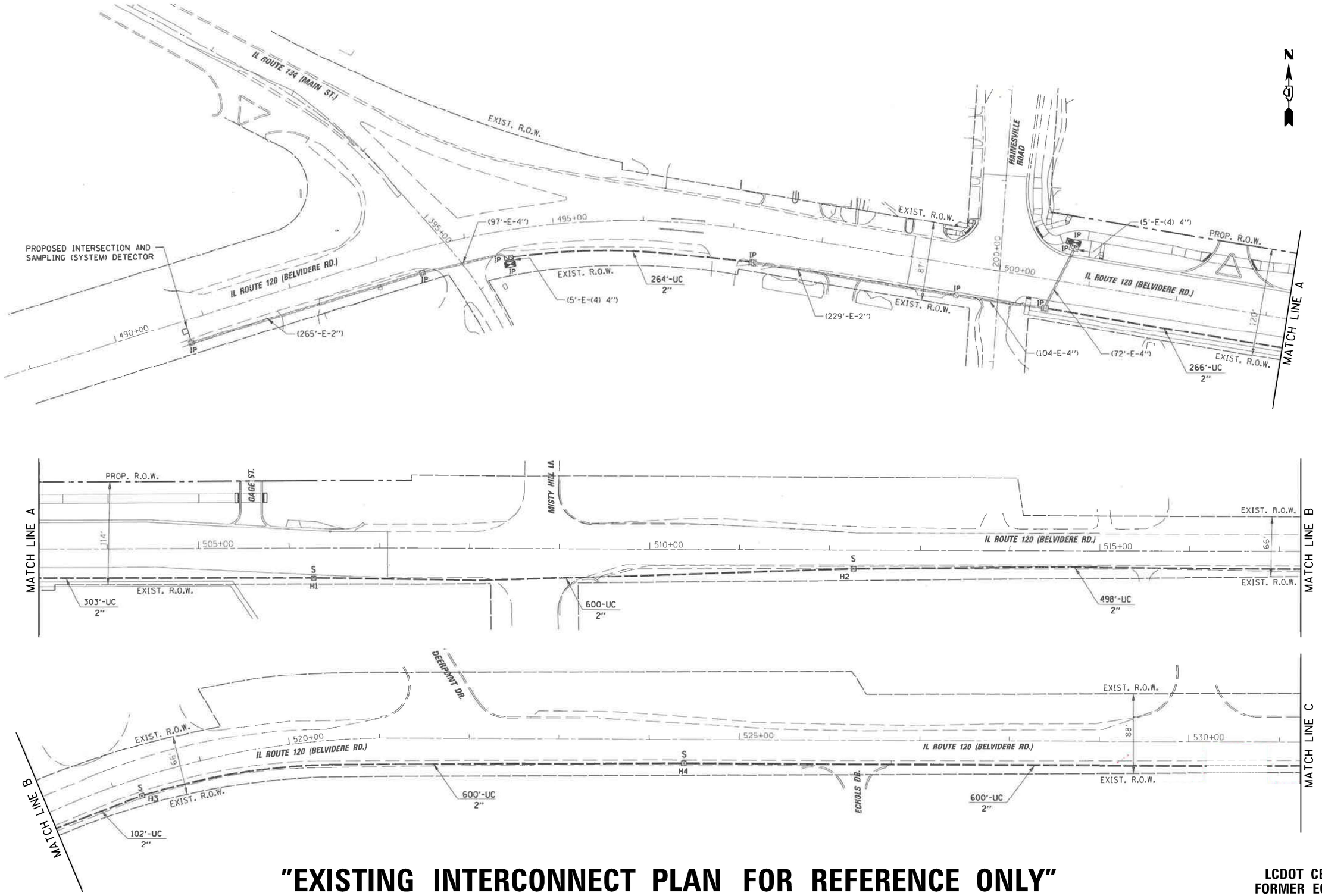
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
IL RTE 68 (PENNY AVE) AT BARRINGTON AVE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	84
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



"EXISTING INTERCONNECT PLAN FOR REFERENCE ONLY"

LCDOT CENTRACS
FORMER ECON 198

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

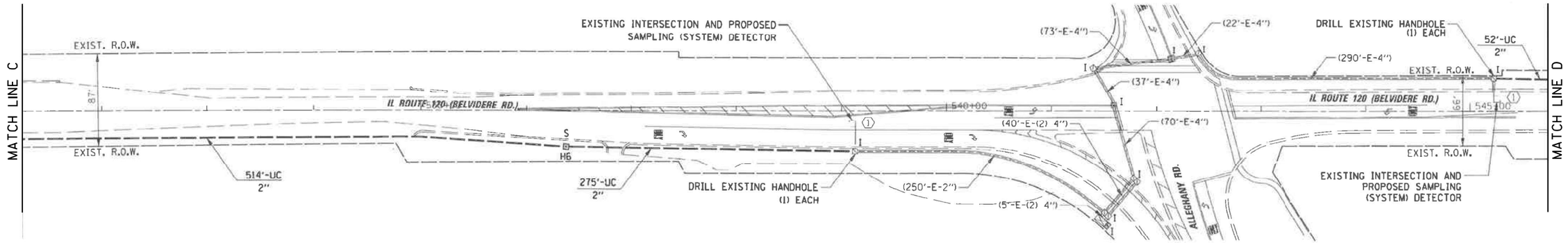
EXISTING INTERCONNECT PLAN
IL RTE 120 (BELVIDERE RD) AT IL RTE 134 (MAIN ST) AND HAINESVILLE RD

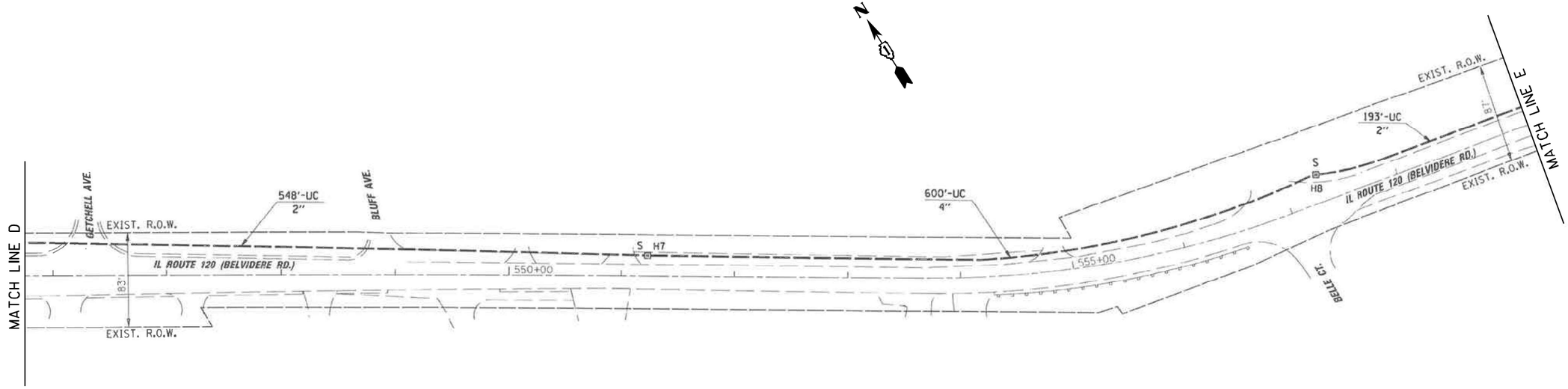
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

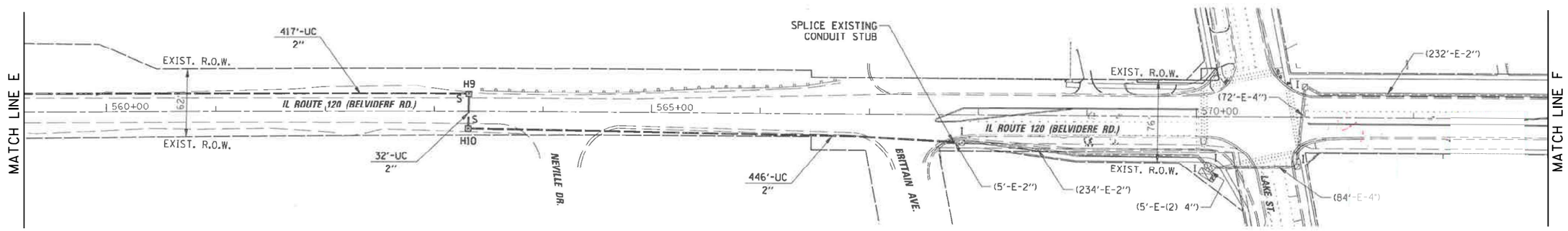
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	85
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\147_Interconnect Plan for IL-120 West to East from IL Rte 134 to Mill Rd.i.dgn







"EXISTING INTERCONNECT PLAN FOR REFERENCE ONLY"

LCDOT CENTRACS
FORMER ECON 198

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING INTERCONNECT PLAN
IL RTE 120 (BELVIDERE RD) AT ALLEGHANY RD AND LAKE ST

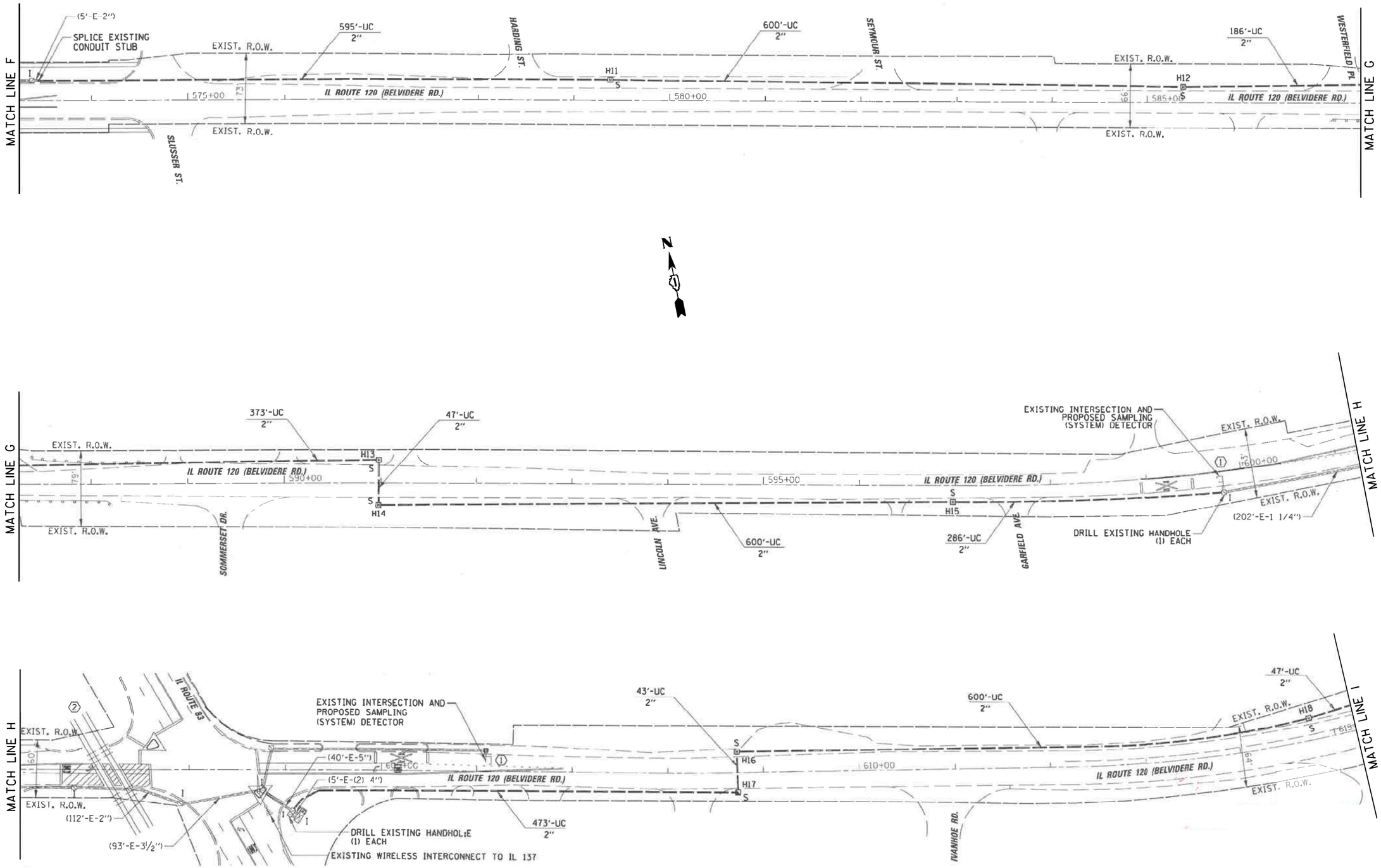
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	86

CONTRACT NO. 62W92

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TSI\Project Work\CADD 62W92\CADD Sheets\148_Interconnect Plan for IL-120 West to East from IL Rte 134 to Mill Rd.2.dgn



"EXISTING INTERCONNECT PLAN FOR REFERENCE ONLY"

LCDOT CENTRACS
FORMER ECON 198

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

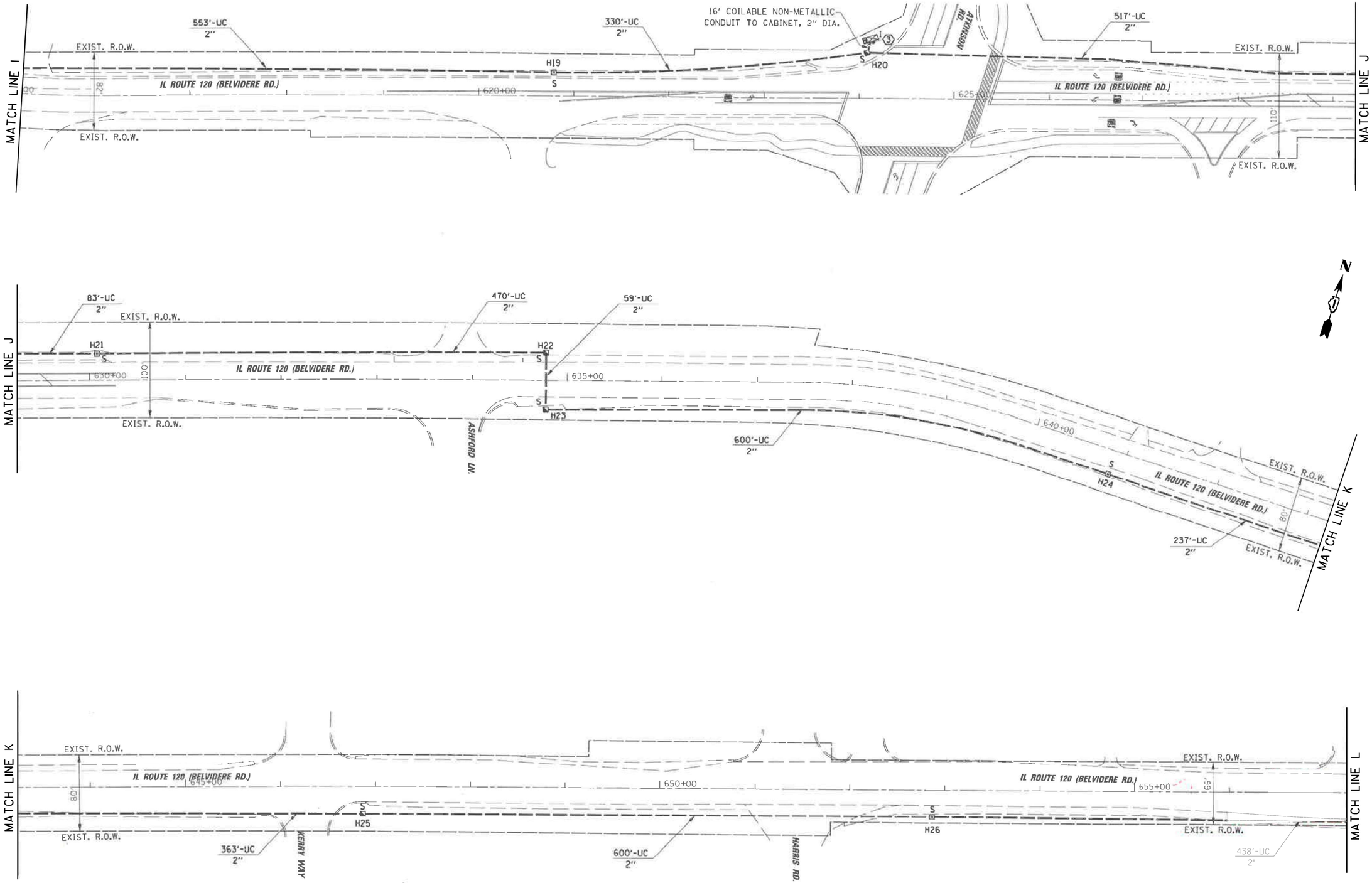
EXISTING INTERCONNECT PLAN
IL RTE 120 (BELVIDERE RD) AT IL RTE 83

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	87
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\149_Interconnect Plan for IL-120 West to East from IL Rte 134 to Mill Rd.3.dgn



"EXISTING INTERCONNECT PLAN FOR REFERENCE ONLY"

LCDOT CENTRACS
FORMER ECON 198

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

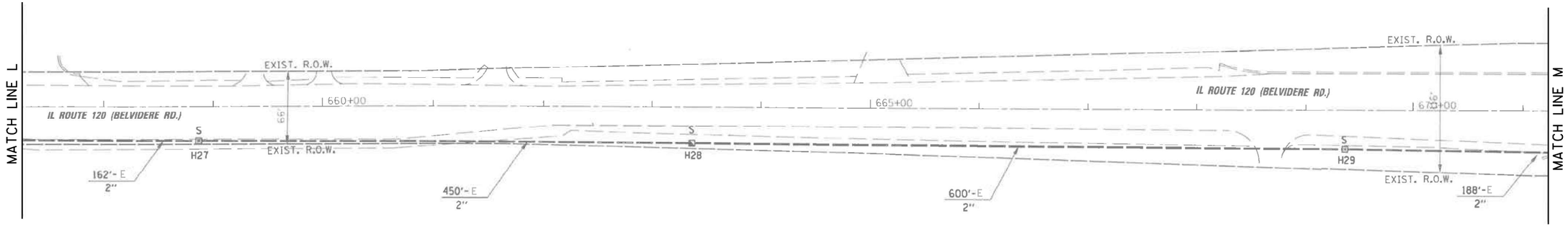
EXISTING INTERCONNECT PLAN
IL RTE 120 (BELVIDERE RD) AT ATKINSON RD

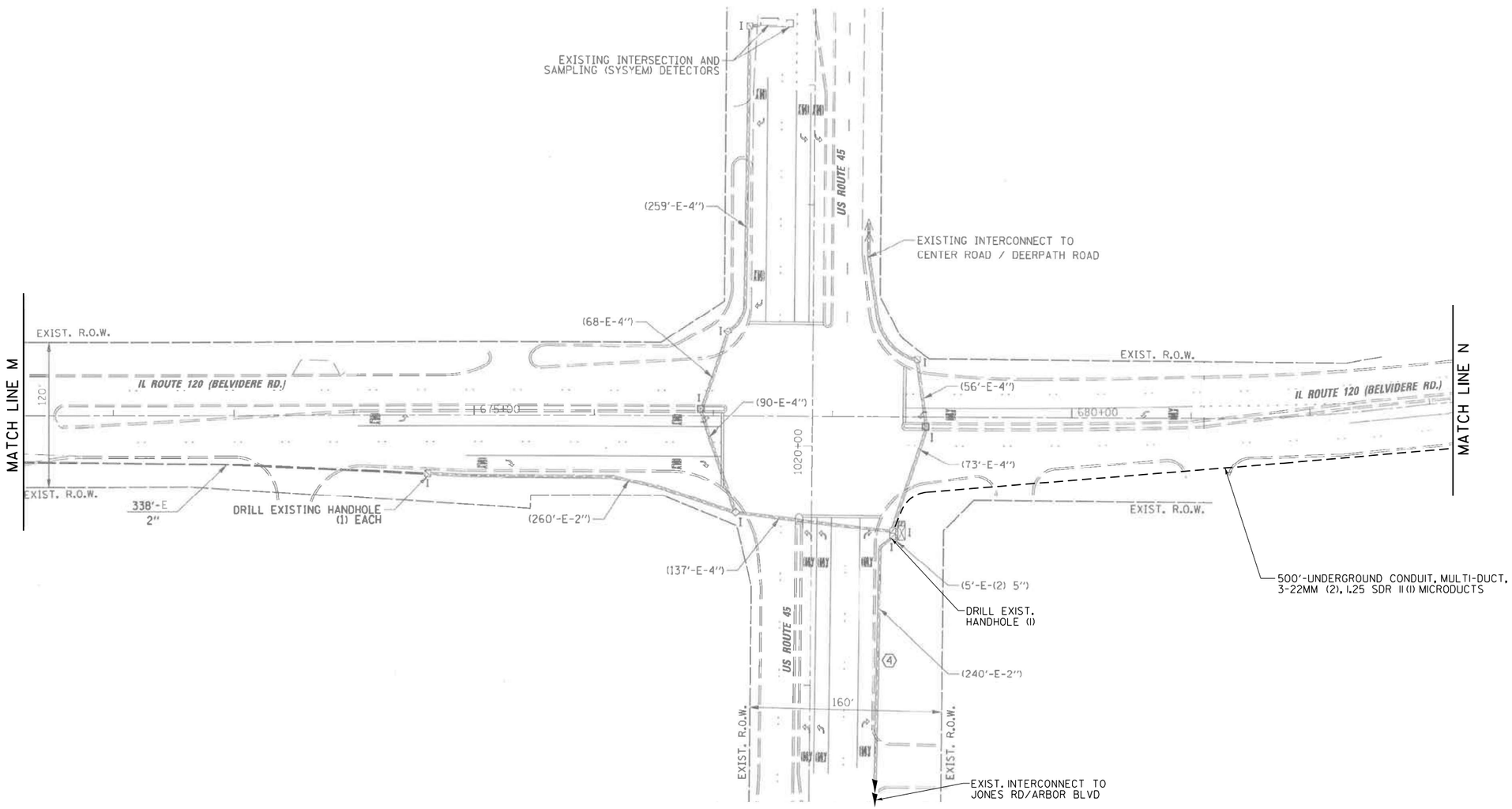
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	88
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\150_Interconnect Plan for IL-120 West to East from IL Rte 134 to Mill Rd.4.dgn





LCDOT TACTICS
FORMER EAGLE 4C

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

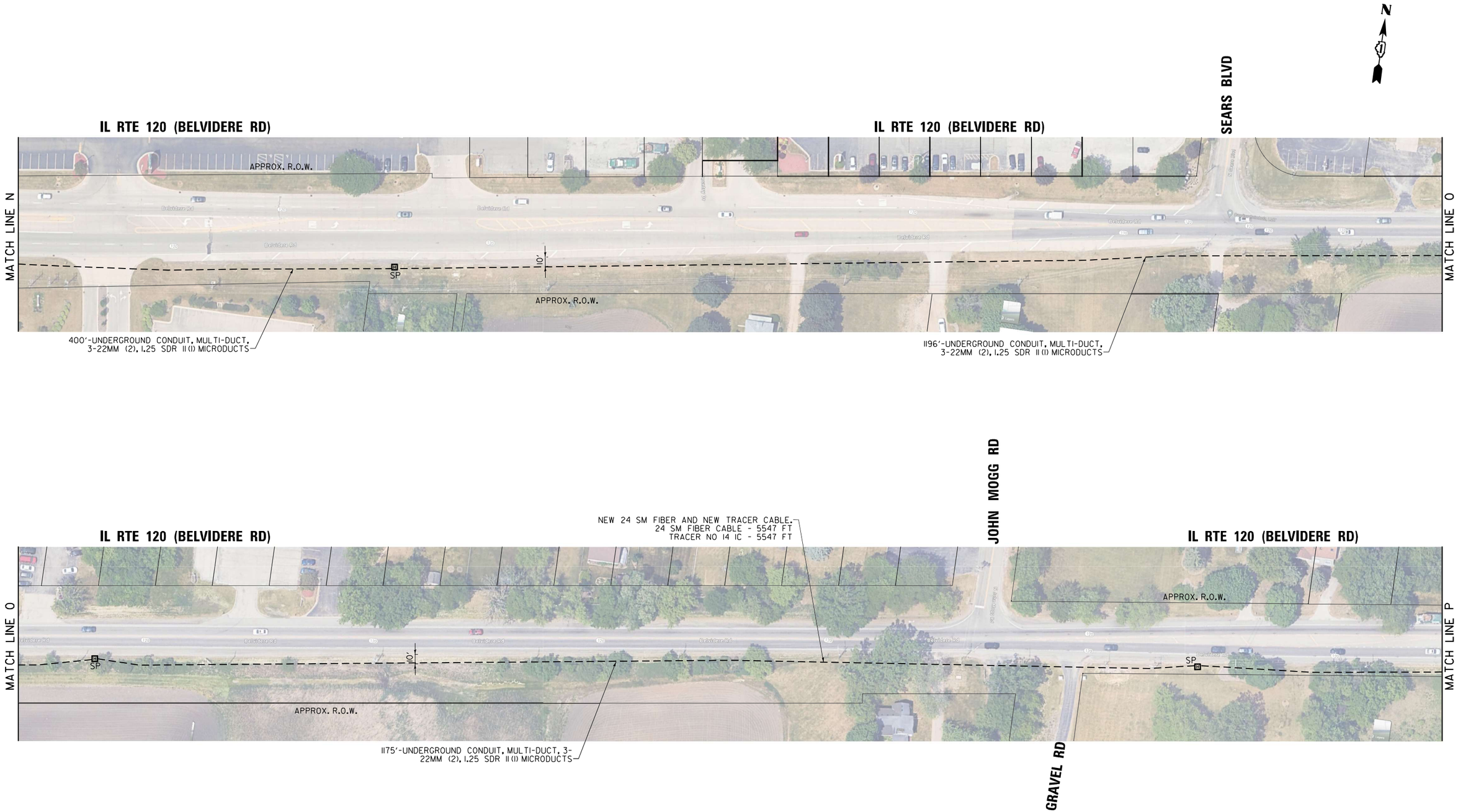
EXISTING INTERCONNECT PLAN
IL RTE 120 (BELVIDERE RD) AT US RTE 45

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	89
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD.Sheets\151.Interconnect Plan for IL-120 West to East from IL Rte 134 to Mill Rd.5.dgn



LCDOT TACTICS
SUBSYSTEM EAGLE 4C

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

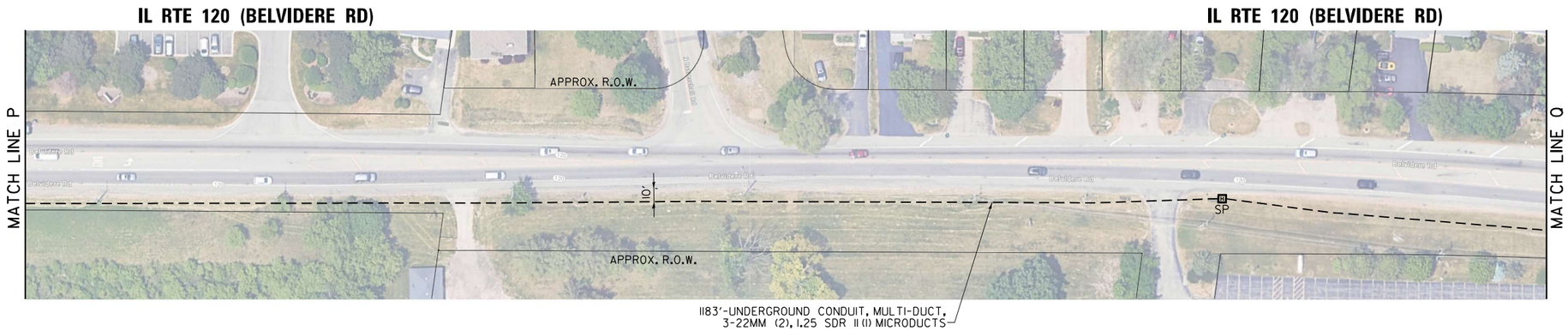
PROPOSED INTERCONNECT PLAN
IL RTE 120 (BELVIDERE RD) AT SEARS BLVD AND JOHN MOGG RD

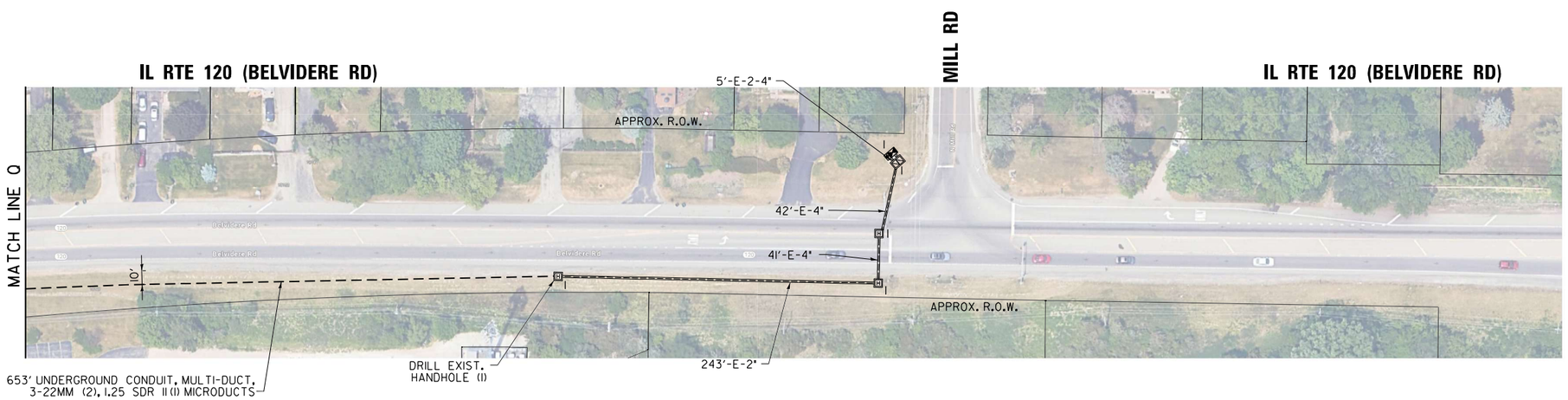
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	90
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\152_Interconnect Plan for IL-120 West to East from IL Rte 134 to Mill Rd.6.dgn





LCDOT TACTICS
SUBSYSTEM EAGLE 4C

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

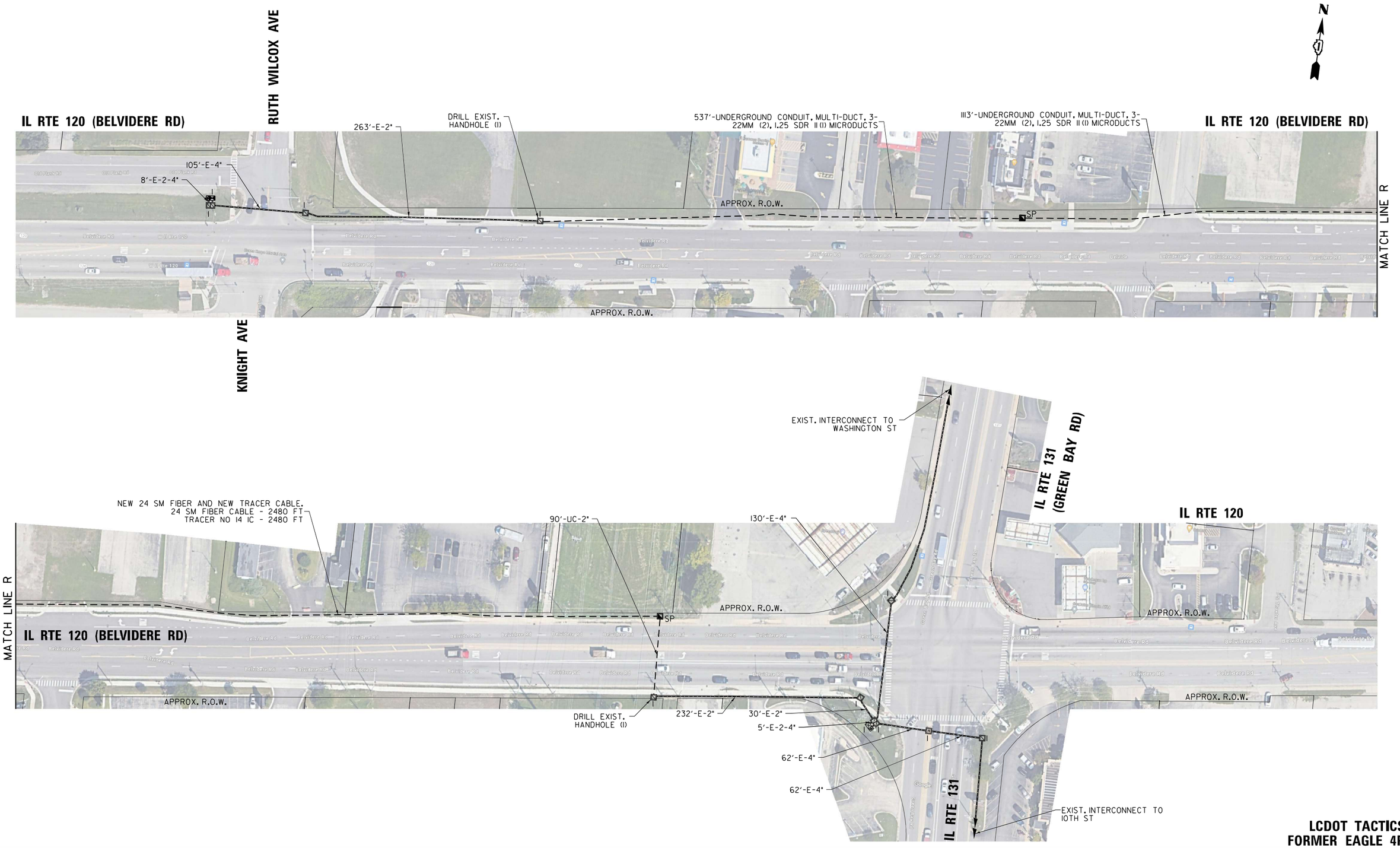
PROPOSED INTERCONNECT PLAN
IL RTE 120 (BELVIDERE RD) AT MILL RD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	91
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\153_Interconnect Plan for IL-120 West to East from IL Rte 134 to Mill Rd_7.dgn



LCDOT TACTICS
FORMER EAGLE 4P

FILE NAME = S:\Projects\2216 - IDOT DI Var PhII TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\154_Interconnect Plan for IL-120 West to East from Ruth Wilcox Ave to IL Rte 131.i.dgn

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MS	REVISED -	
PLOT DATE = $DATE$	DATE - 10/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

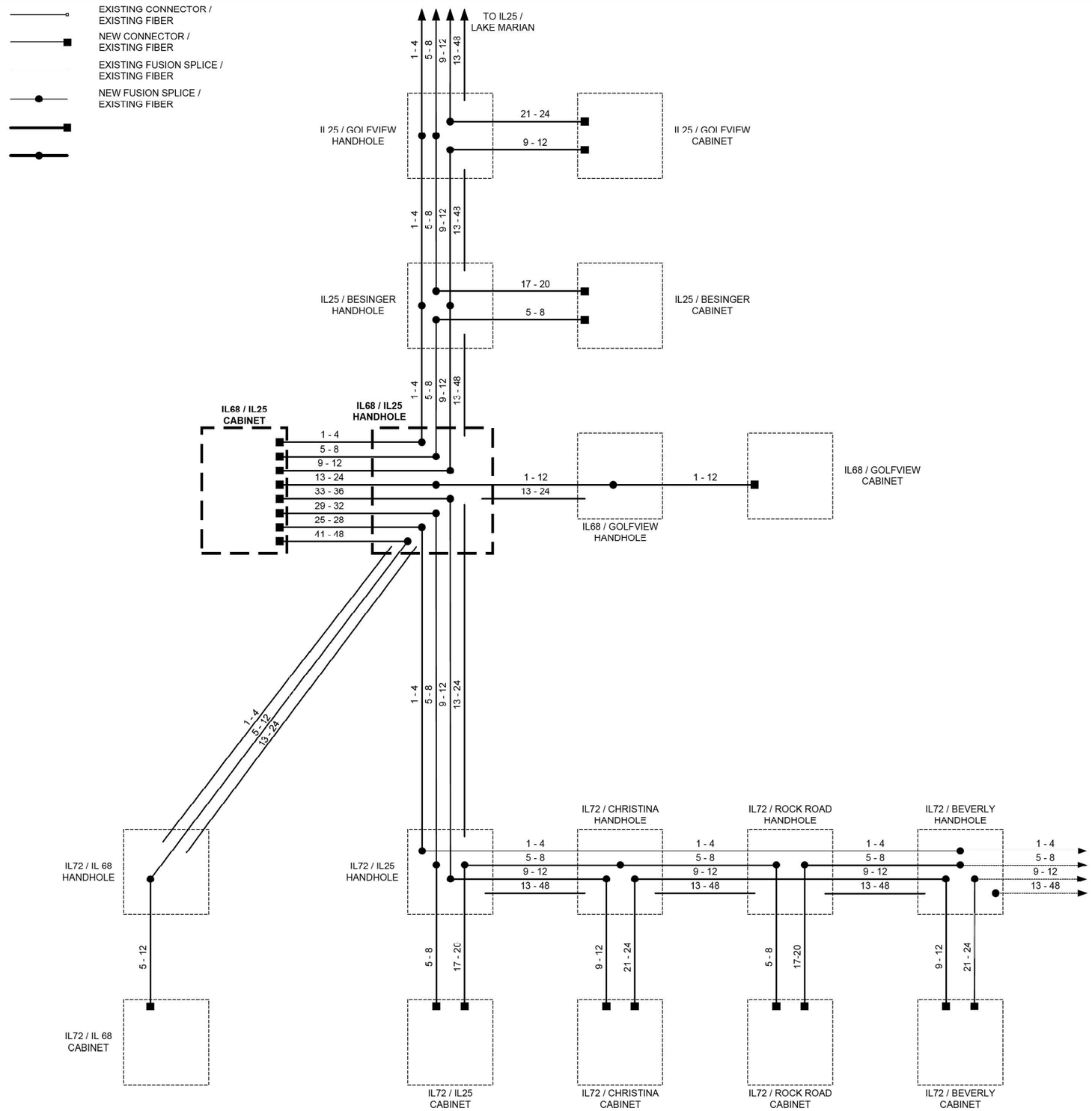
PROPOSED INTERCONNECT PLAN
IL RTE 120 (BELVIDERE RD) AT RUTH WILCOX AVE/KNIGHT AVE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-967-TS	VARIOUS	102	92
		CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

PARSONS



USER NAME = $USER$	DESIGNED - KK	REVISED - 12-1-2025	
	DRAWN - KK	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - DD	REVISED -	
PLOT DATE = $DATE$	DATE - 06/30/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING DIAGRAM

SCALE: SHEET NO. OF SHEETS STA. TO STA.

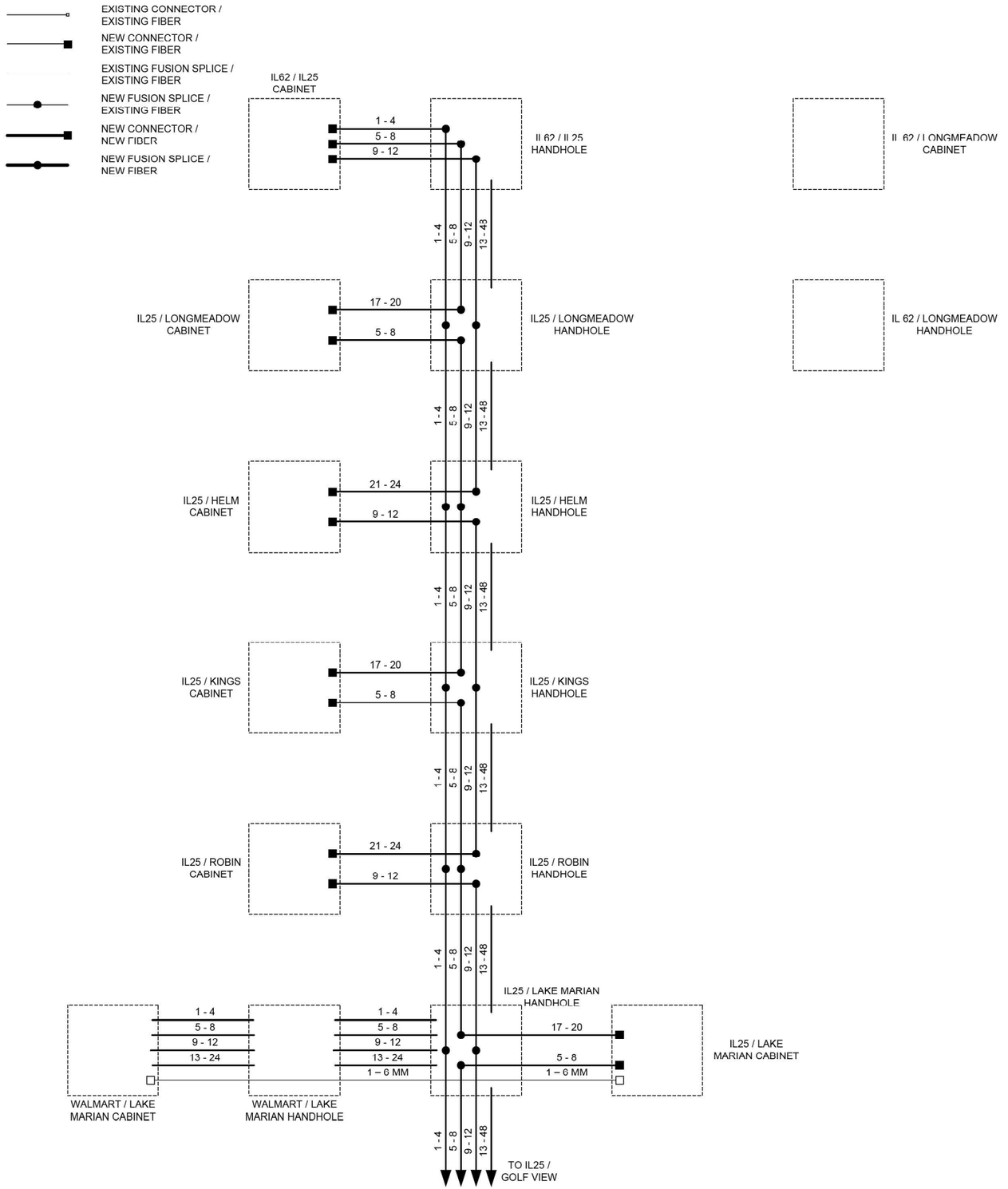
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	93

CONTRACT NO. 62W92

ILLINOIS FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT DI Var Phil TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\159_Fiber Splicing Diagram1.dgn

PARSONS



USER NAME = $USER$	DESIGNED - KK	REVISED - 12-1-2025	
	DRAWN - KK	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - DD	REVISED -	
PLOT DATE = $DATE$	DATE - 06/30/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING DIAGRAM

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	94

CONTRACT NO. 62W92

ILLINOIS | FED. AID PROJECT

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\160_Fiber Splicing Diagram-2.dgn

PARSONS

EXISTING CONNECTOR / EXISTING FIBER

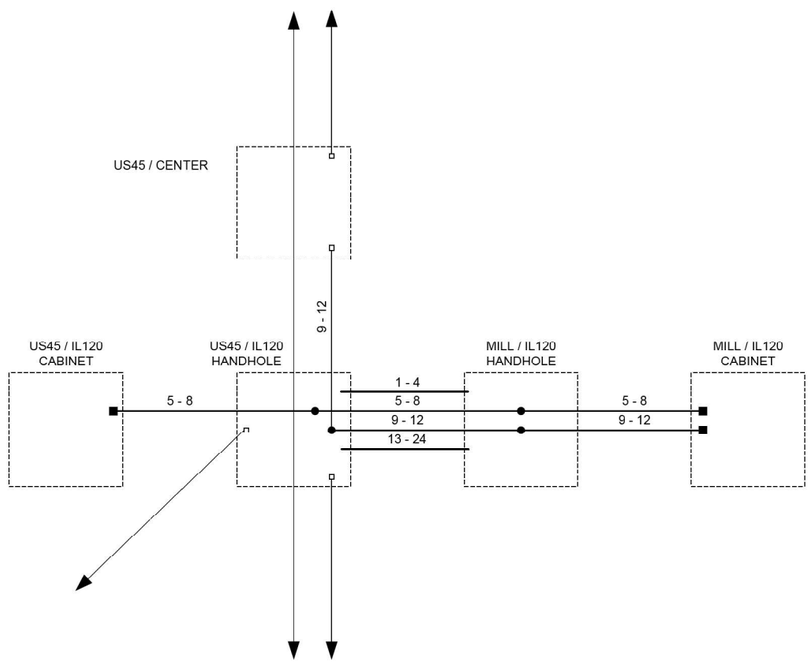
NEW CONNECTOR / EXISTING FIBER

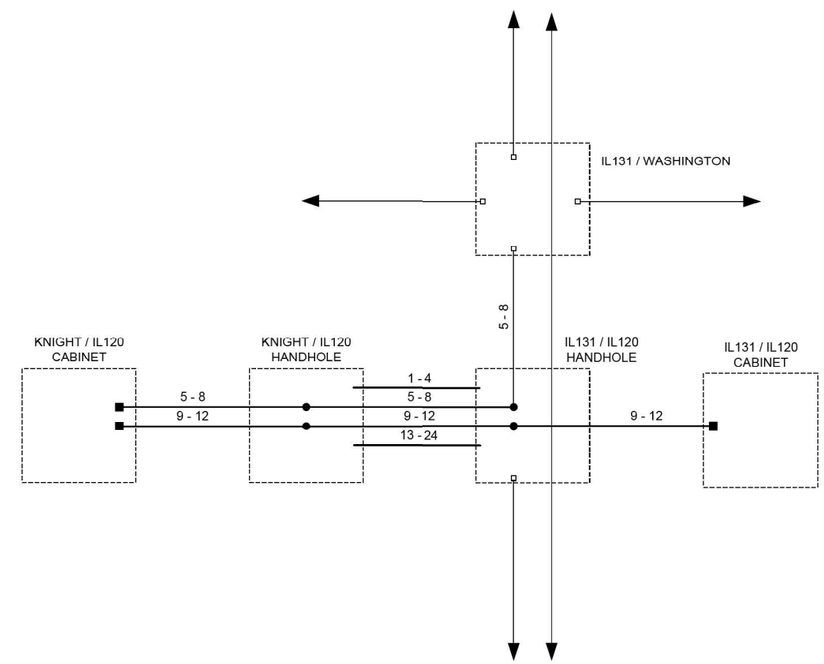
EXISTING FUSION SPLICE / EXISTING FIBER

NEW FUSION SPLICE / EXISTING FIBER

NEW CONNECTOR / NEW FIBER

NEW FUSION SPLICE / NEW FIBER





FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\161_Fiber Splicing Diagram-3.dgn

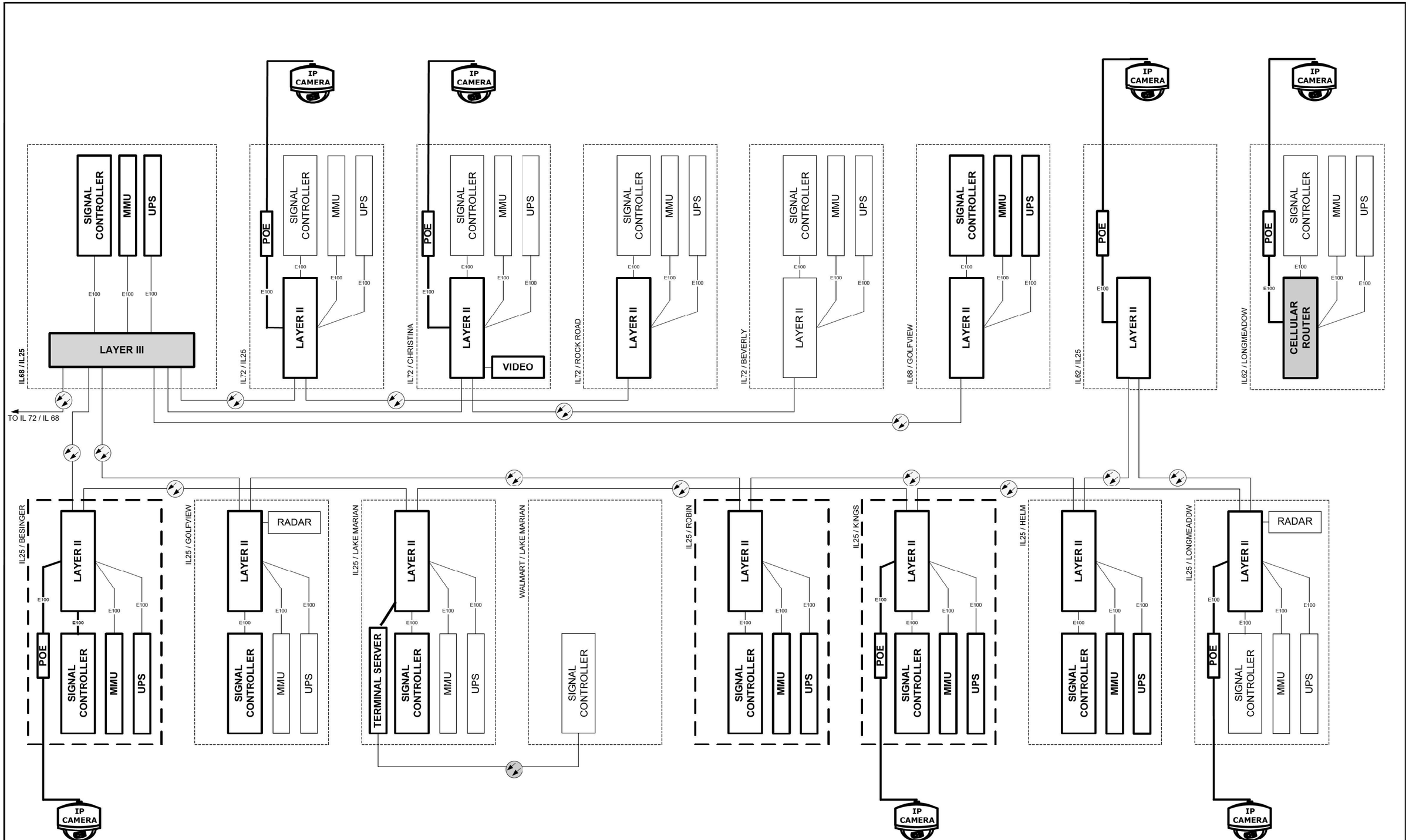
USER NAME = $USER$	DESIGNED - KK	REVISED - 12-1-2025	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - KK	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - DD	REVISED -	
PLOT DATE = $DATE$	DATE - 06/30/2022	REVISED -	

FIBER SPLICING DIAGRAM

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	95
		CONTRACT NO. 62W92		
		ILLINOIS	FED. AID PROJECT	

PARSONS



FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\162_Fiber Splicing Diagram-4.dgn

USER NAME = $USER$	DESIGNED - KK	REVISED - 12-1-2025	
	DRAWN - KK	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - DD	REVISED -	
PLOT DATE = $DATE$	DATE - 06/30/2022	REVISED -	

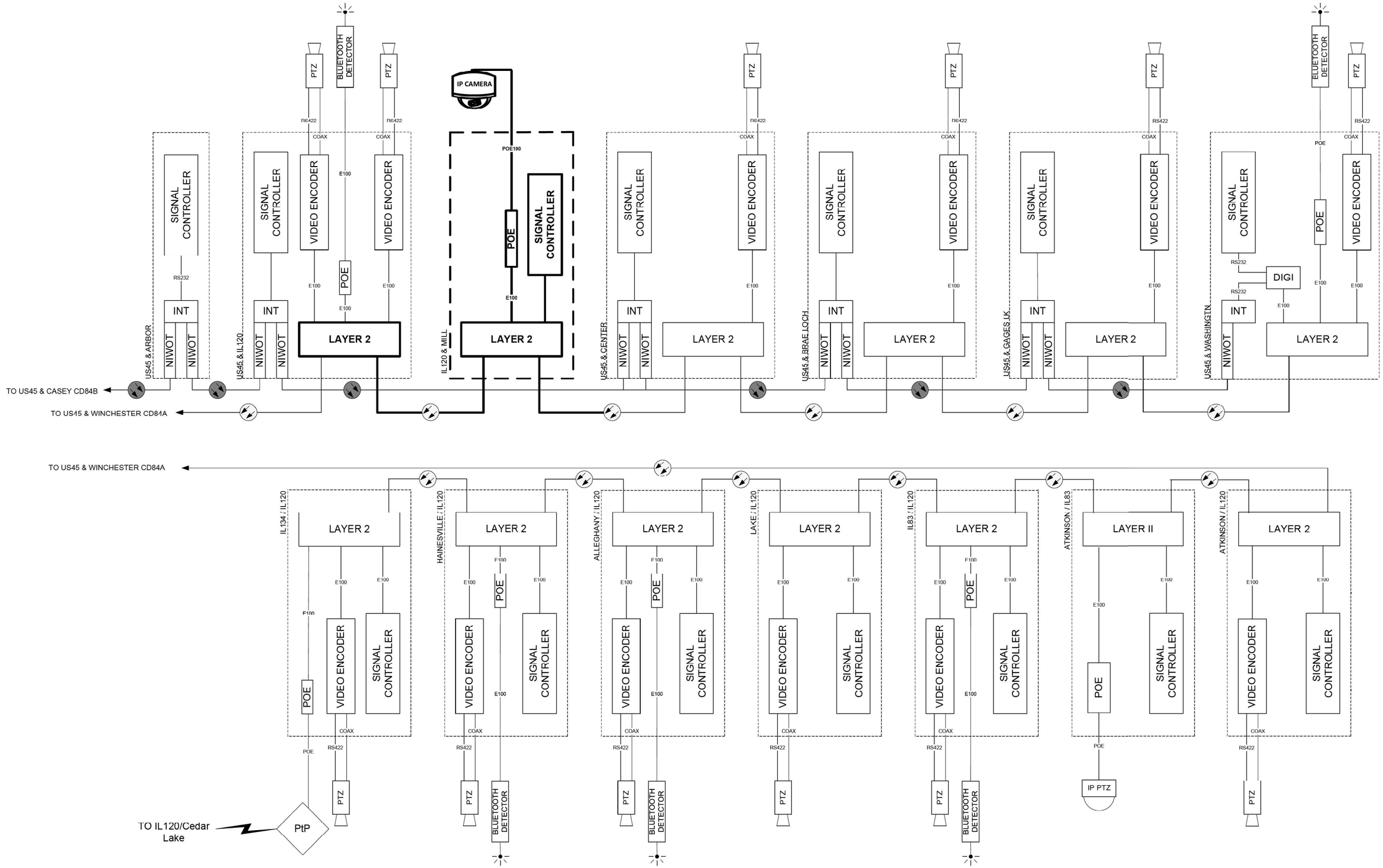
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET DETAIL

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	96
		CONTRACT NO. 62W92		
		ILLINOIS	FED. AID PROJECT	

PARSONS



FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\163_Fiber Splicing Diagram-5.dgn

USER NAME = $USER$	DESIGNED - KK	REVISED - 12-1-2025	
	DRAWN - KK	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - DD	REVISED -	
PLOT DATE = $DATE$	DATE - 06/30/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET DETAIL

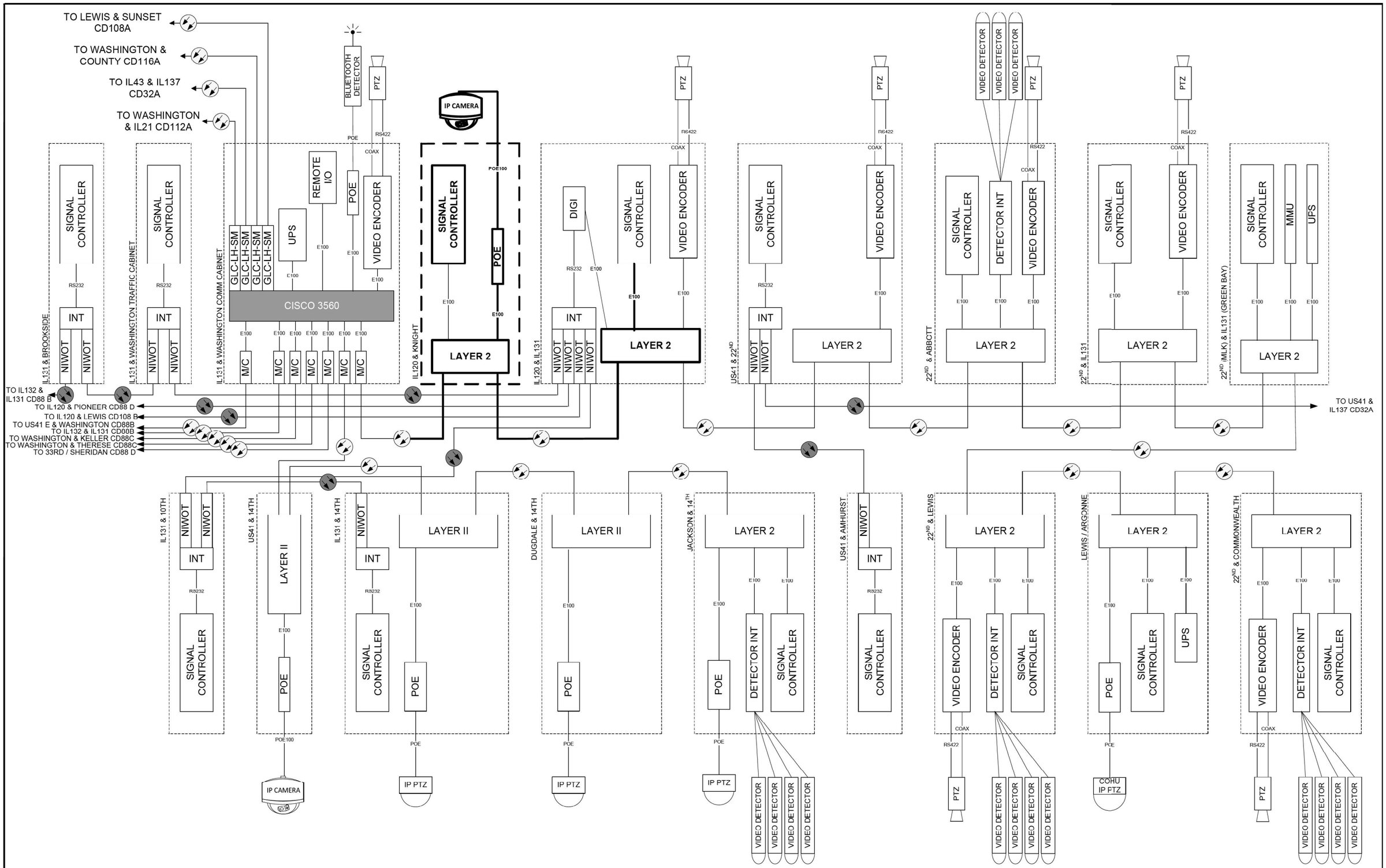
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	97

CONTRACT NO. 62W92

ILLINOIS | FED. AID PROJECT

PARSONS



USER NAME = $USER$	DESIGNED - KK	REVISED - 12-1-2025	
	DRAWN - KK	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - DD	REVISED -	
PLOT DATE = $DATE$	DATE - 06/30/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET DETAIL

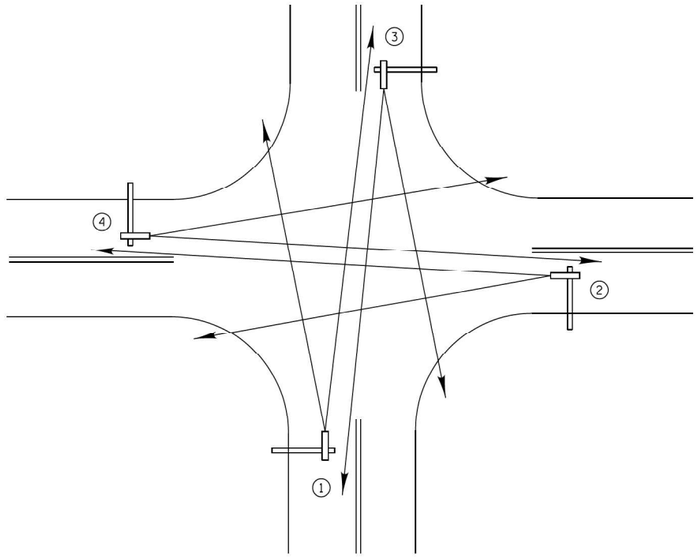
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	98

CONTRACT NO. 62W92

ILLINOIS | FED. AID PROJECT

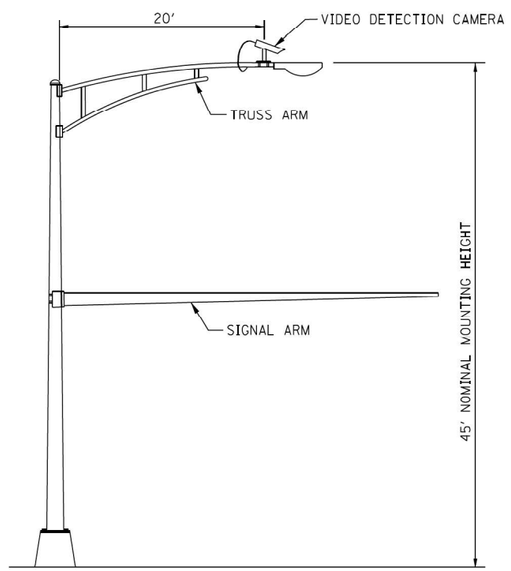
FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\164_Fiber Splicing Diagram-6.dgn



TYPICAL VIDEO VEHICLE DETECTION SYSTEM

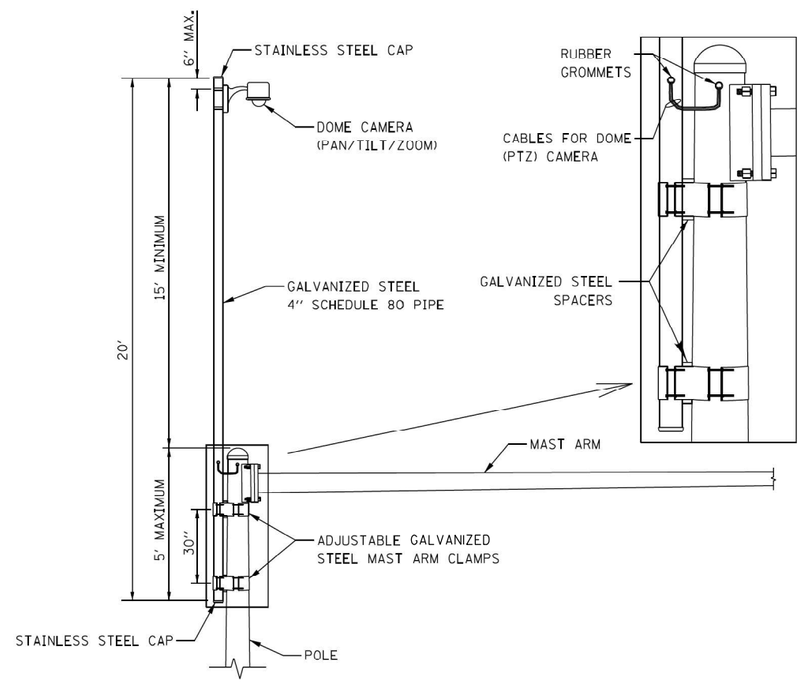
(NOT TO SCALE)

(4) VIDEO DETECTION CAMERA ASSEMBLIES AND BRACKETS ① ② ③ ④



COMBINATION MAST ARM ASSEMBLY AND POLE DIMENSIONS

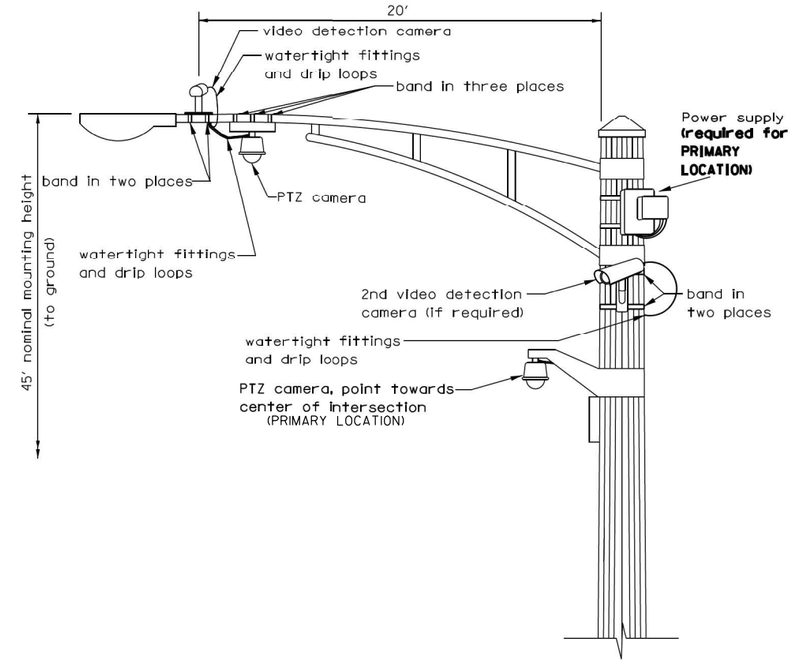
(NOT TO SCALE)



CAMERA MOUNTING ASSEMBLY DETAIL

(NOT TO SCALE)

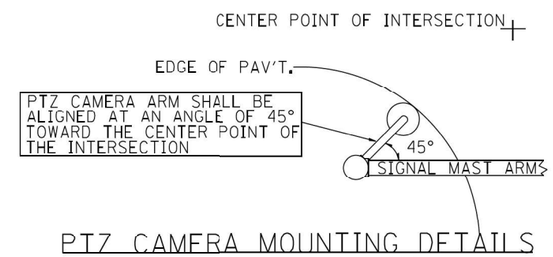
NOTES:
- THE MAST ARM IS TAPERED.
- INSTALL EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY. ADDITIONAL SPACERS REQUIRED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING ASSEMBLY OF THE TYPE SPECIFIED.
- SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS



VIDEO DETECTION CAMERA(S) AND DOME (PTZ) CAMERA MOUNTING DETAIL

(NOT TO SCALE)

NOTES FOR SINGLE, DUAL AND MULTIPLE CAMERA MOUNTING:
- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
- MOUNT VIDEO DETECTION CAMERA AIMING DOWN TOWARD THE DIRECTION OF TRAFFIC TO BE DETECTED.



PTZ CAMERA MOUNTING DETAILS (SECONDARY LOCATION)

(NO SCALE)

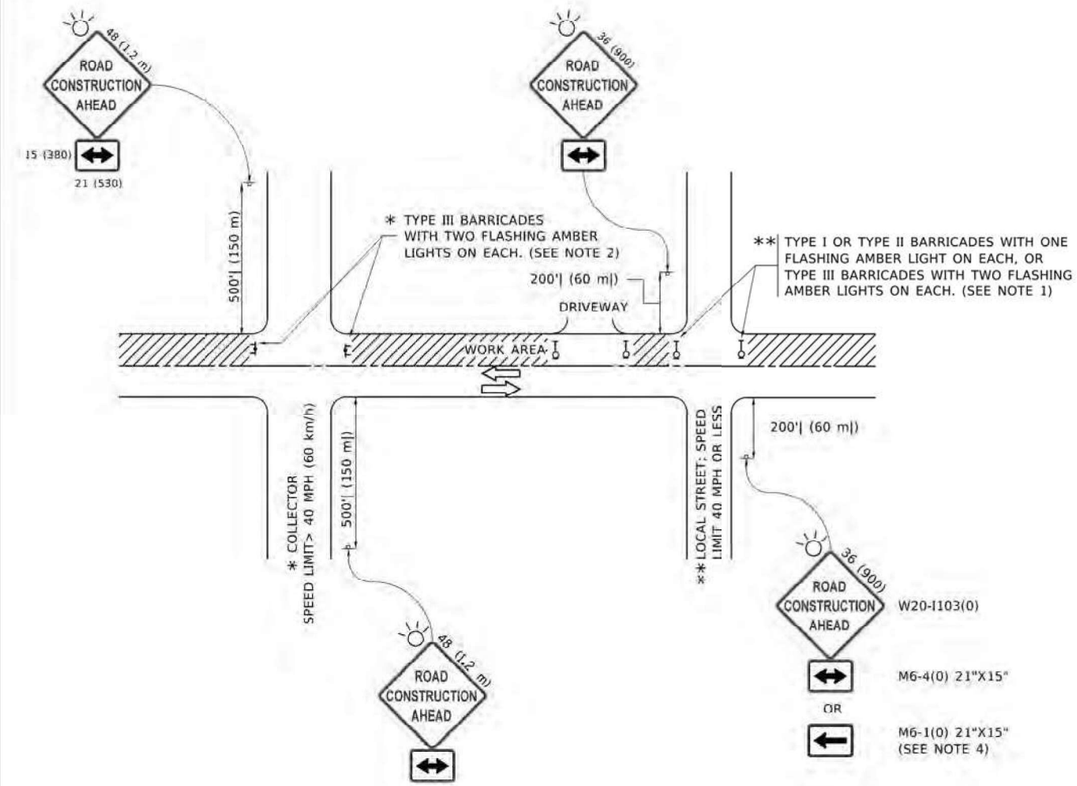
FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\155_CAMERA MOUNTING DETAIL.dgn

USER NAME = $USER$	DESIGNED - KK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - KK	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - DD	REVISED -	
PLOT DATE = $DATE$	DATE - 06/30/2022	REVISED -	

CAMERA MOUNTING DETAIL

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	99
		CONTRACT NO. 62W92		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.

6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.

7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = zhoerbert	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 1-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	F.A. RTE. VAR; SECTION 2024-967-TS; COUNTY VARIOUS; TOTAL SHEETS 102; SHEET NO. 100
	DRAWN -	REVISED - A. SCHUETZE 07-11-13			TC-10; CONTRACT NO. 62W92
	CHECKED -	REVISED - A. SCHUETZE 09-15-06		SCALE: SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT
PLOT DATE = 11/4/2025	DATE - 06-89	REVISED - D. SENDERAK 05-03-25			

FILE NAME = S:\Projects\2216 - IDOT D1 Var PhII TES & Mgmt - TS1\Project Work\CADD 62W92\CADD_Sheets\156_TRAFFIC CONTROL AND PROTECTION.dgn

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

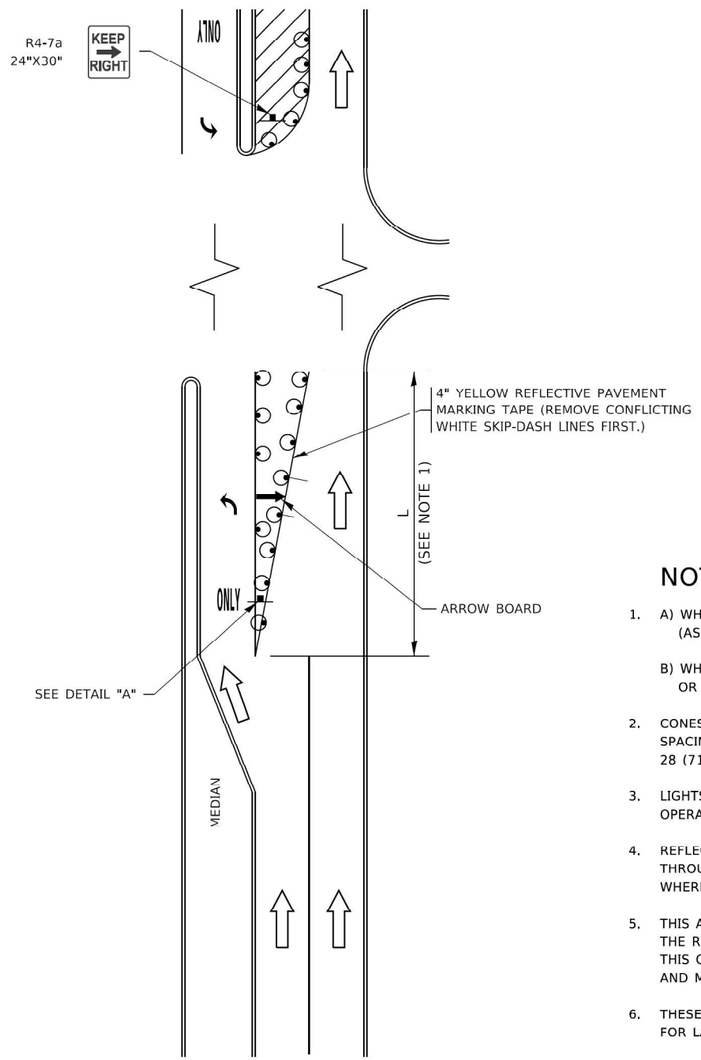


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.

8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

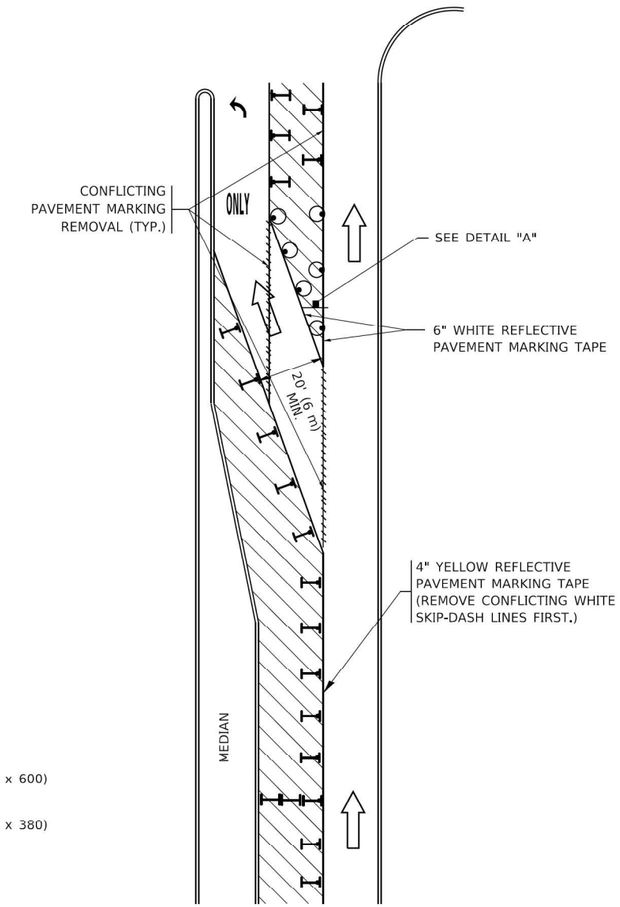
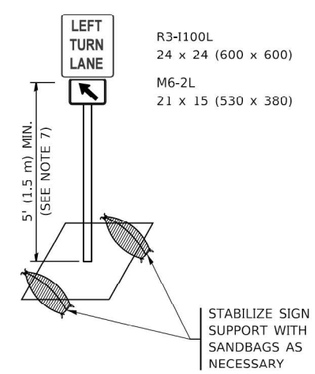


FIGURE 2



DETAIL A

All dimensions are in inches (millimeters) unless otherwise shown.

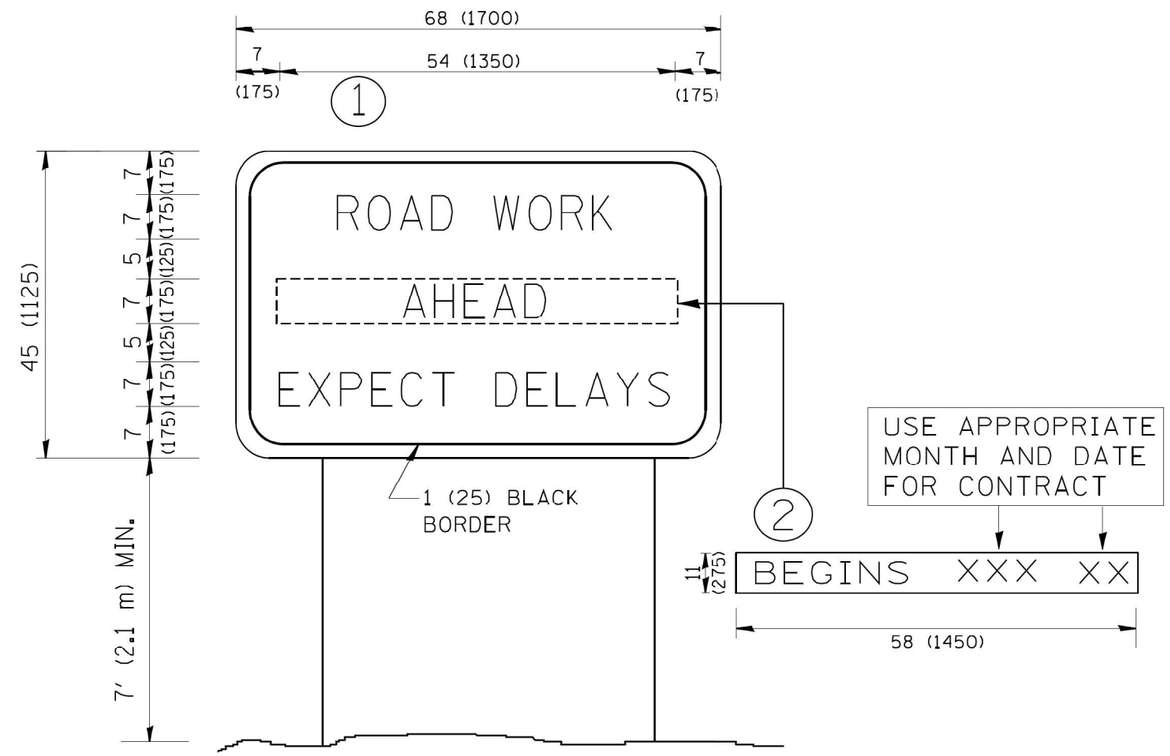
USER NAME = $USER$	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 40.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = $DATE$	DATE - T. RAMMACHER 01-06-00	REVISED -	

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	101
TC-14		CONTRACT NO. 62W92		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TSI\Project Work\CADD 62W92\CADD_Sheets\157_TRAFFIC CONTROL AND PROTECTION TURN BAYS.dgn



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN 1 WITH INSTALLED PANEL 2 ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME = S:\Projects\2216 - IDOT D1 Var Phil TES & Mgmt - TS\Project Work\CADD 62W92\CADD_Sheets\158_ARTERIAL ROAD INFORMATION SIGN.dgn

USER NAME = $USER$	DESIGNED -	REVISED -	R. MIRS 09-15-97
	DRAWN -	REVISED -	R. MIRS 12-11-97
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	T. RAMMACHER 02-02-99
PLOT DATE = $DATE$	DATE -	REVISED -	C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-967-TS	VARIOUS	102	102
	TC-22	CONTRACT NO. 62W92		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT