

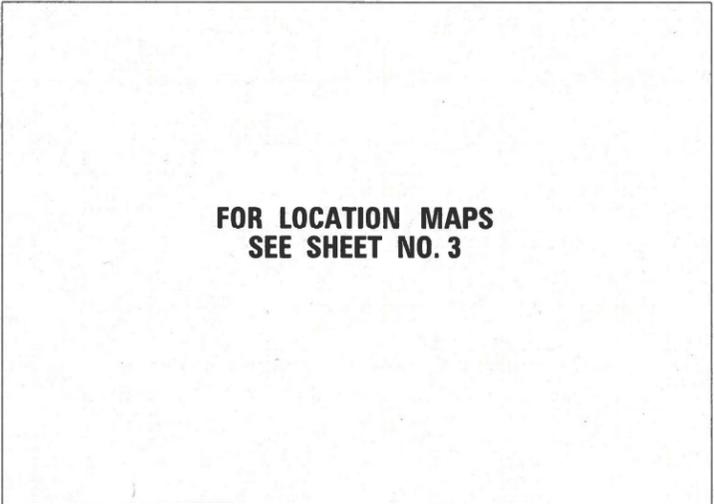
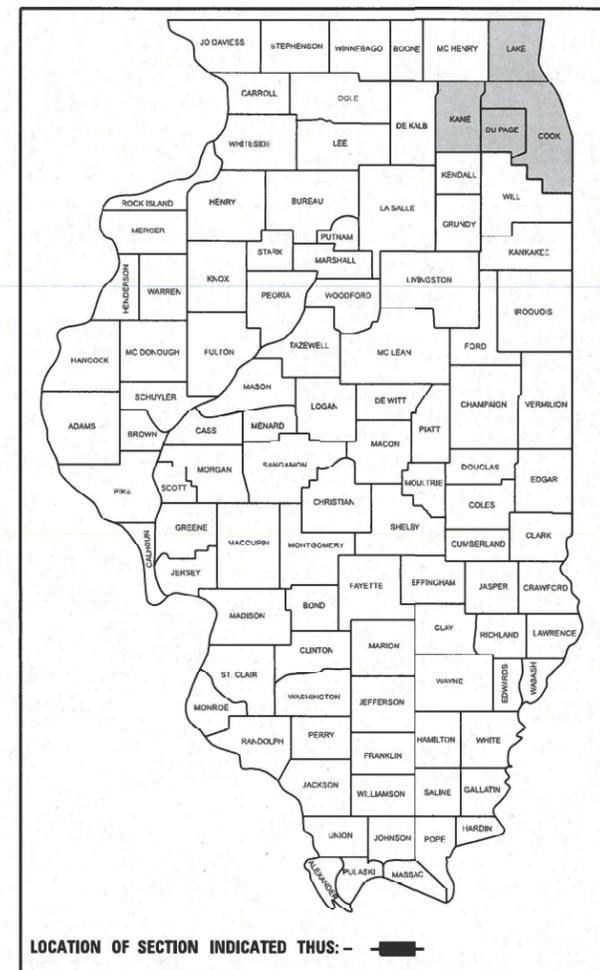
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS
VARIOUS LOCATIONS IN DISTRICT 1
SECTION: 2023-940-N,TS
PROJECT: HSIP-G9UR(363)
TRAFFIC SIGNAL MODERNIZATION
COOK, DUPAGE, LAKE AND KANE COUNTIES

C-91-181-24

FOR INDEX OF SHEETS, SEE SHEET NO. 2

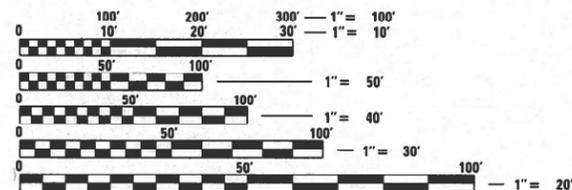
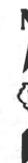
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	1
		ILLINOIS	CONTRACT NO. 62W61	

D-91-140-24



FOR LOCATION MAPS
SEE SHEET NO. 3

VARIOUS TOWNSHIPS



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

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

PROJECT ENGINEER: IOVAN PLASCENCIA (847) 705-4504
 PROJECT MANAGER: NICHOLAS BUTLER (847) 705-4420

CONTRACT NO. 62W61



Signed *Daniel Wiktorzak*
 DANIEL WIKTORZAK, P.E. IL Lic. No. 062-060950
 Expires 11-30-2025
 Date 12-20-24

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED *Dec 18 20 24*
[Signature] REGIONAL ENGINEER

January 31 25
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

January 31 25
[Signature] 5
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

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74		ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STD. NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE MORE THAN 15' AWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
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
701901-10	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-10	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-07	STEEL COMB. MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

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. 48 HOUR NOTIFICATION IS REQUIRED.

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

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 ARM LENGTHS.

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 "J.U.L.I.E." 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).

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER 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.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR UNDERGROUND AND OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE AREA ENGINEER AND ANY IMPACTED UTILITY COMPANY OF THE CONFLICT, AND SHALL COORDINATE AND RESOLVE THE ISSUE PRIOR TO ORDERING MATERIALS, AND PRIOR TO POURING FOUNDATIONS.

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

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 DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 256 RESPECTIVELY.

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

LOCATIONS WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATIONS FROM THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.

DIMENSIONED OFFSETS FOR THE TRAFFIC SIGNAL MAST ARMS AND POST ARE MEASURED FROM THE BACK OF CURB TO THE CENTER OF THE FOUNDATION WHERE CURB IS PRESENT. IF NO CURB IS PRESENT, OFFSETS ARE MEASURED FROM THE EDGE OF PAVEMENT TO THE CENTER OF THE FOUNDATION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY EXISTING SIGNS FROM THE MAST ARM ASSEMBLIES AND POSTS THAT ARE REMOVED AND TRANSFER THEM TO THE PROPOSED MAST ARM ASSEMBLIES AND POSTS PER THE STANDARD SPECIFICATIONS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS @ Ndes	

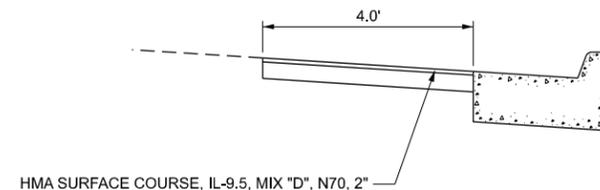
THE MIX BELOW IS FOR APPLICATION OF A 4-FOOT WIDE HMA STRIP IN FRONT OF THE PROPOSED ADA CURB RAMP, FOR THE FOLLOWING: (A) SLOPE CORRECTIONS PER PLAN, (B) SLOPE CORRECTIONS AS DETERMINED IN THE FIELD, (C) AND / OR PAVEMENT SURFACE RESTORATION OF DAMAGED PAVEMENT SURFACE DURING CONSTRUCTION IN COORDINATION WITH AND UNDER THE DIRECTION OF THE RESIDENT ENGINEER.

HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 2"	4% AT 70 GYR.	QC/QA
--	---------------	-------

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.



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USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - IP 1/31/2025
PLOT SCALE = 40,000' / 1 in.	DRAWN - RG	REVISED -
PLOT DATE = 12/23/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY
STANDARDS, AND GENERAL NOTES

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N, TS	VAR	74	2
CONTRACT NO. 62W61				
ILLINOIS FED. AID PROJECT				

REV-SEP

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CONSTRUCTION CODE											
90% FED 5% STATE 5% ST CHARLES	90% FED 5% STATE 5% WAYNE		90% FED 5% STATE 2.5% HILLSIDE 2.5% BELLWOOD	90% FED 5% STATE 5% VERNON HILLS	100% ST CHARLES EVP	100% WAYNE EVP		100% BELLWOOD FIRE DEPT. EVP	100% VERNON HILLS EVP		90% FED 10% STATE
KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.	KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.		COOK CO.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS								INTERCONNECT		
				0021								0021		
				URBAN										
20101700	SUPPLEMENTAL WATERING	UNIT	7	2			2	3						
20200100	EARTH EXCAVATION	CU YD	56	25			15	16						
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	276	99			72	105						
25200110	SODDING, SALT TOLERANT	SQ YD	276	99			72	105						
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	75	32			15	28						
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	18.8	8			3.7	7.1						
42001300	PROTECTIVE COAT	SQ YD	447	200			91	156						
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2879	1316			591	972						
42400800	DETECTABLE WARNINGS	SQ FT	256	123			48	85						
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	167	71			33	63						
44000600	SIDEWALK REMOVAL	SQ FT	2073	601			440	1032						
60260100	INLETS TO BE ADJUSTED	EACH	2	1			1							
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	170	40	40		40	50						
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	1	1		1	1						

*** SPECIALTY ITEM**



USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
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PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
(SHEET 1 OF 9)**

SCALE: SHEET 1 OF 9 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N-TS	VAR	74	4
			CONTRACT NO. 62W61	
ILLINOIS FED. AID PROJECT				

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				CONSTRUCTION CODE												
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				KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.	KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.		COOK CO.	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS											INTERCONNECT	
				0021											0021	
				URBAN												
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.25	0.25		0.25	0.25								
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.25	0.25		0.25	0.25								
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	16	4	4		4	4								
67100100	MOBILIZATION	L SUM	1	0.25	0.25		0.25	0.25								
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.25	0.25		0.25	0.25								
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.25	0.25		0.25	0.25								
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.25	0.25		0.25	0.25								
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.25	0.25		0.25	0.25								
* 72000100	SIGN PANEL - TYPE 1	SQ FT	129	25.5	27		46.5	30								
* 72000200	SIGN PANEL - TYPE 2	SQ FT	92				37.5	54.5								
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	494	494												
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1483	652			252	579								
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	106				69	37								
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	756	331			197	228								



USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED -
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	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
(SHEET 2 OF 9)**

SCALE: SHEET 2 OF 9 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	5
			CONTRACT NO. 62W61	
ILLINOIS FED. AID PROJECT				

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CONSTRUCTION CODE											
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KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.	KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.		COOK CO.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS										INTERCONNECT	
				0021										0021	
				URBAN											
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	8605	1615	2035		2215	2740							
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	625	230	70		215	110							
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1 C	FOOT	3930	900	690		865	1475							
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	14	4	4		4	2							
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2				1	1							
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1					1							
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	1											
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	2		1		1								
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		1										
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1	1											
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1	1											
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1		1										
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1					1							



USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
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PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES (SHEET 4 OF 9)			
SCALE:	SHEET 4 OF 9 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	7
			CONTRACT NO. 62W61	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE											
90% FED 5% STATE 5% ST CHARLES	90% FED 5% STATE 5% WAYNE		90% FED 5% STATE 2.5% HILLSIDE 2.5% BELLWOOD	90% FED 5% STATE 5% VERNON HILLS	100% ST CHARLES EVP	100% WAYNE EVP		100% BELLWOOD FIRE DEPT. EVP	100% VERNON HILLS EVP		90% FED 10% STATE
KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.	KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.		COOK CO.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS										INTERCONNECT	
				0021										0021	
				URBAN											
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	9	4	2				3						
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	13	4	2				7						
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	20	8			4	8							
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	47	8	10		12	17							
88500100	INDUCTIVE LOOP DETECTOR	EACH	32	8	8		7	9							
88600100	DETECTOR LOOP, TYPE I	FOOT	2062	1134	645		167	116							
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1										
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	11						2	2		3	4		
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	4						1	1		1	1		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4470					470							4000
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	780		780										
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	1	1		1	1							
89502376	REBUILD EXISTING HANDHOLE	EACH	2				1								1
89502380	REMOVE EXISTING HANDHOLE	EACH	17	9	3		5								

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 DATE: 12/23/2024



USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40,000' / 1 in.	DRAWN - RG	REVISED -
PLOT DATE = 12/23/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
(SHEET 6 OF 9)			
SCALE:	SHEET 6 OF 9 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N, TS	VAR	74	9
			CONTRACT NO. 62W61	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE											
90% FED 5% STATE 5% ST CHARLES	90% FED 5% STATE 5% WAYNE		90% FED 5% STATE 2.5% HILLSIDE 2.5% BELLWOOD	90% FED 5% STATE 5% VERNON HILLS	100% ST CHARLES EVP	100% WAYNE EVP		100% BELLWOOD FIRE DEPT. EVP	100% VERNON HILLS EVP		90% FED 10% STATE
KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.	KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.		COOK CO.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS										INTERCONNECT		
				0021										0021		
				URBAN												
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2	1				1								
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2				1	1								
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	0.33			0.33	0.34								
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	2580						520	275		610	1175			
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	1613													1613
X0327036	BIKE PATH REMOVAL	SQ YD	25	25												
X0327211	RELOCATE SWITCH	EACH	1		1											
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	290		180			110								
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	3	1	1		1									
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1					1								
X1400216	LAYER II (DATALINK) SWITCH	EACH	1					1								
X1400217	TERMINATE FIBER IN CABINET	EACH	8					8								
X8710317	SPLICE FIBER IN CABINET	EACH	8					8								

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PLOT DATE = 12/23/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
(SHEET 7 OF 9)			
SCALE:	SHEET 7 OF 9 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	10
			CONTRACT NO. 62W61	
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE												
				90% FED 5% STATE 5% ST CHARLES	90% FED 5% STATE 5% WAYNE		90% FED 5% STATE 2.5% HILLSIDE 2.5% BELLWOOD	90% FED 5% STATE 5% VERNON HILLS	100% ST CHARLES EVP	100% WAYNE EVP		100% BELLWOOD FIRE DEPT. EVP	100% VERNON HILLS EVP		90% FED 10% STATE	
				KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.	KANE CO.	DUPAGE CO.		COOK CO.	LAKE CO.		COOK CO.	
				TRAFFIC SIGNALS											INTERCONNECT	
				0021											0021	
				URBAN												
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	12	4			2	6								
X1400368	RELOCATE EXISTING PTZ CAMERA	EACH	1		1											
X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1					1								
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	377	160			75	142								
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	6	1.5	1.5		1.5	1.5								
X8570232	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1	1												
X8570233	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	3		1		1	1								
X8620200	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	4	1	1		1	1								
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2947													2947
X8710094	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	3	1	1			1								
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	21	8			4	9								
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	52	16			8	28								
X8809005	LED SIGNAL FACE, LENS COVER	EACH	75	16	18		20	21								



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PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 (SHEET 8 OF 9)**

SCALE: SHEET 8 OF 9 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	11
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

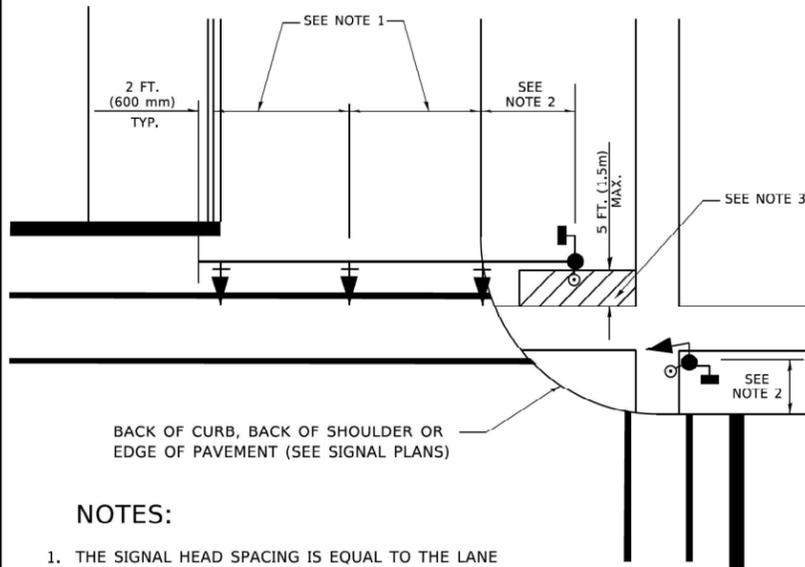
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	13
TS-05		CONTRACT NO. 62W61		
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

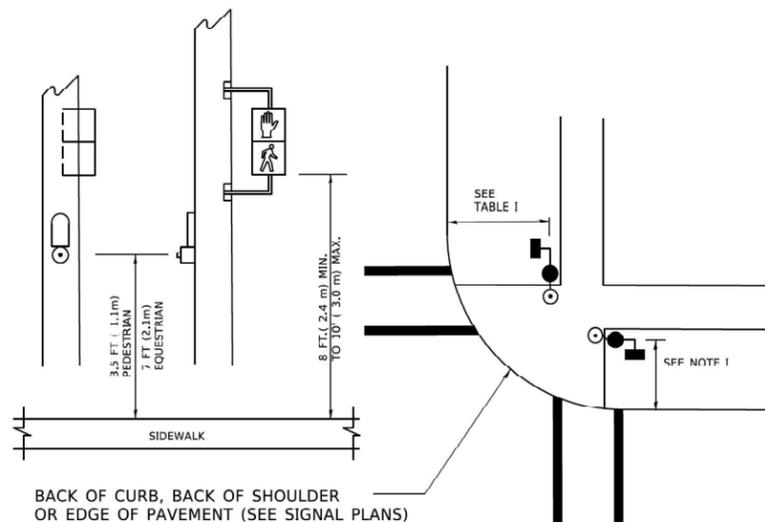
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

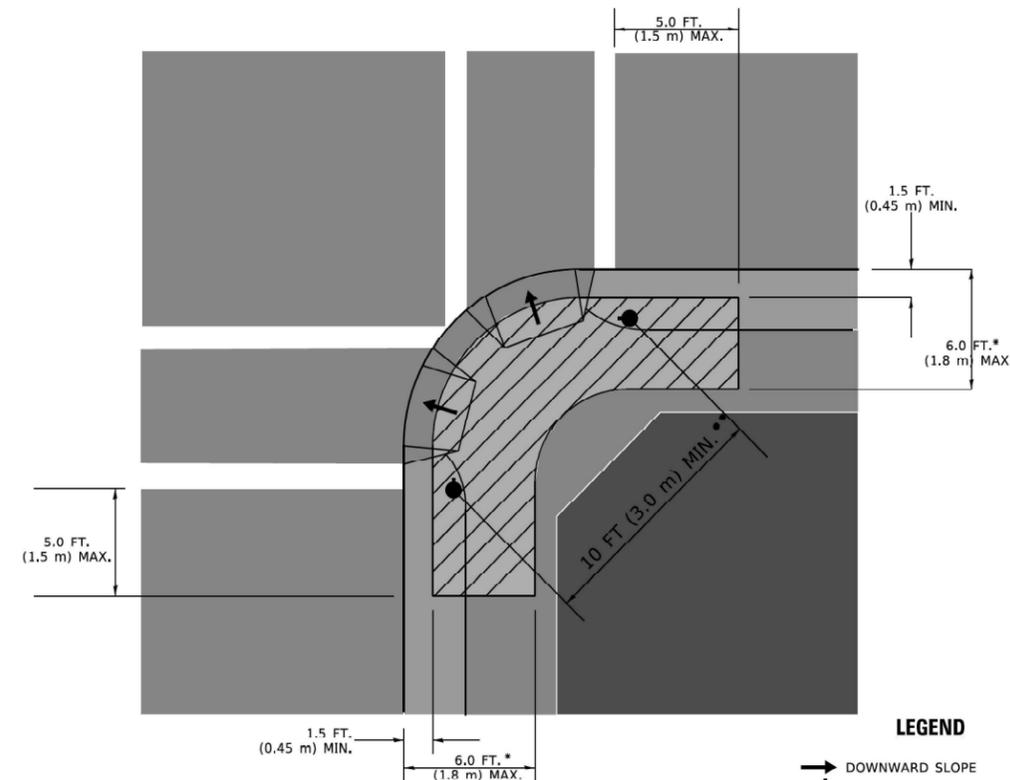
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ 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 TO THE 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.

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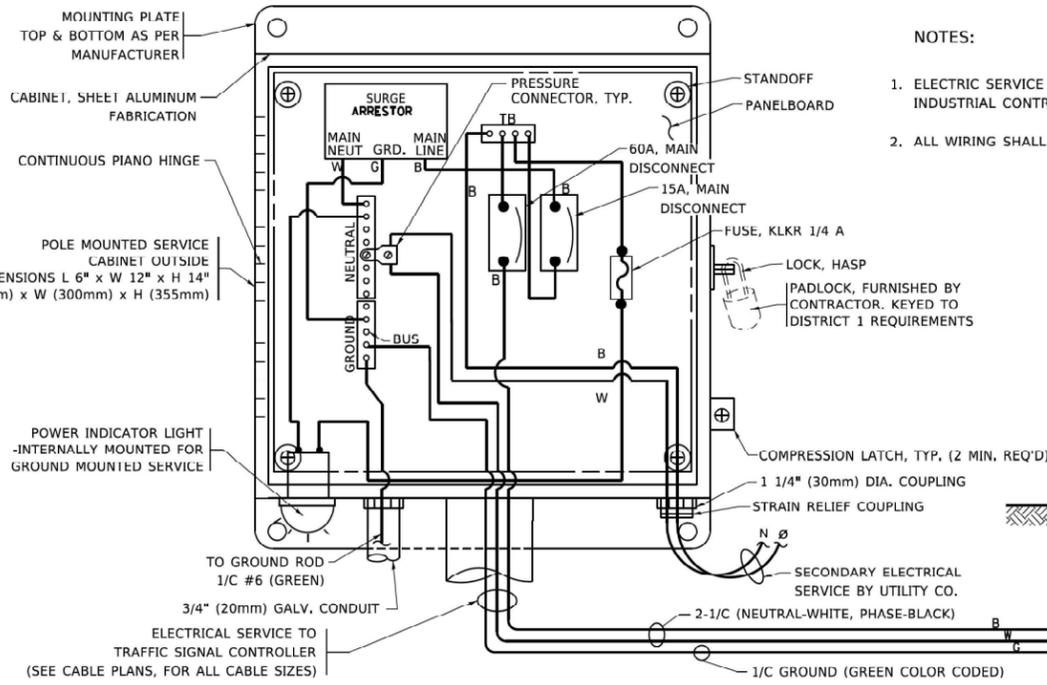
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

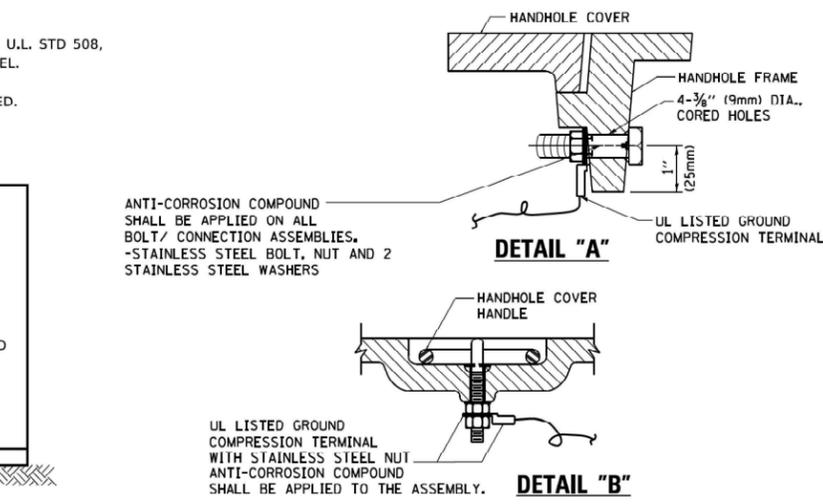
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

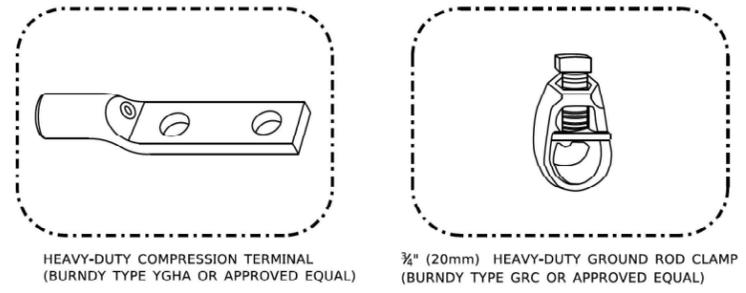
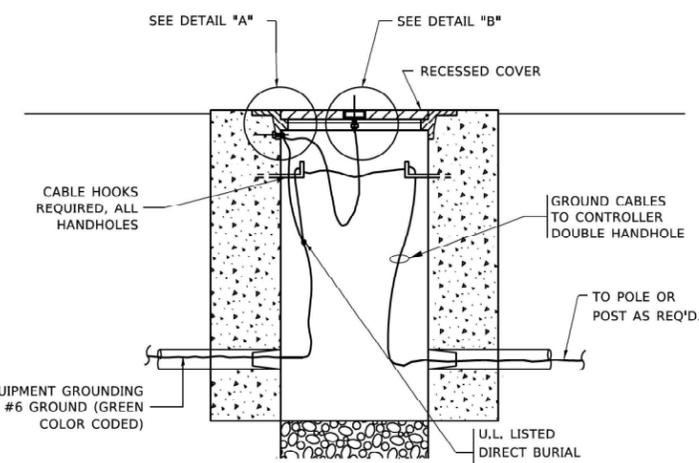
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VAR	2023-940-N.TS	VAR	74	15
TS-05		CONTRACT NO. 62W61		
ILLINOIS FED. AID PROJECT				



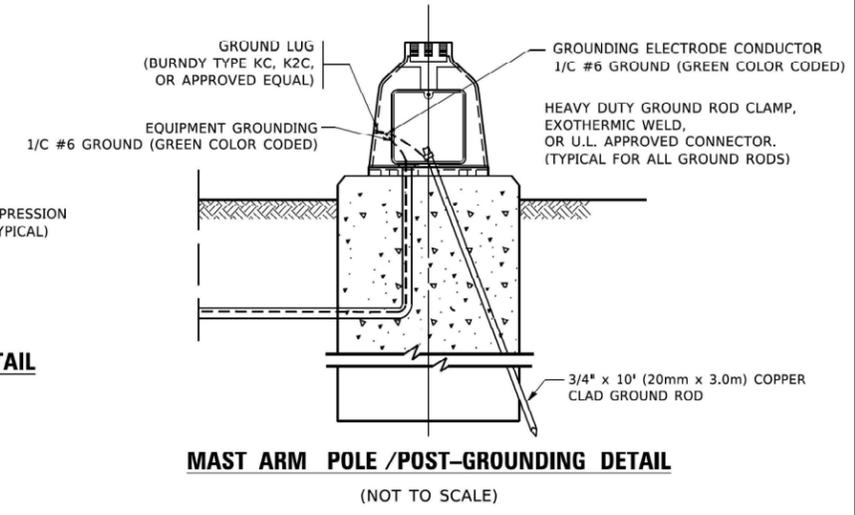
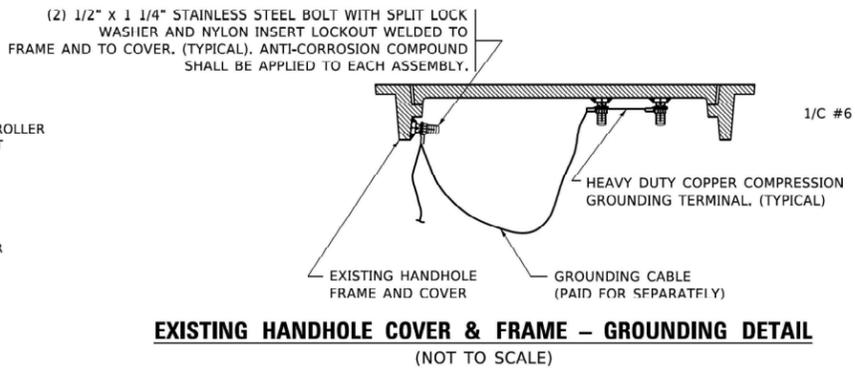
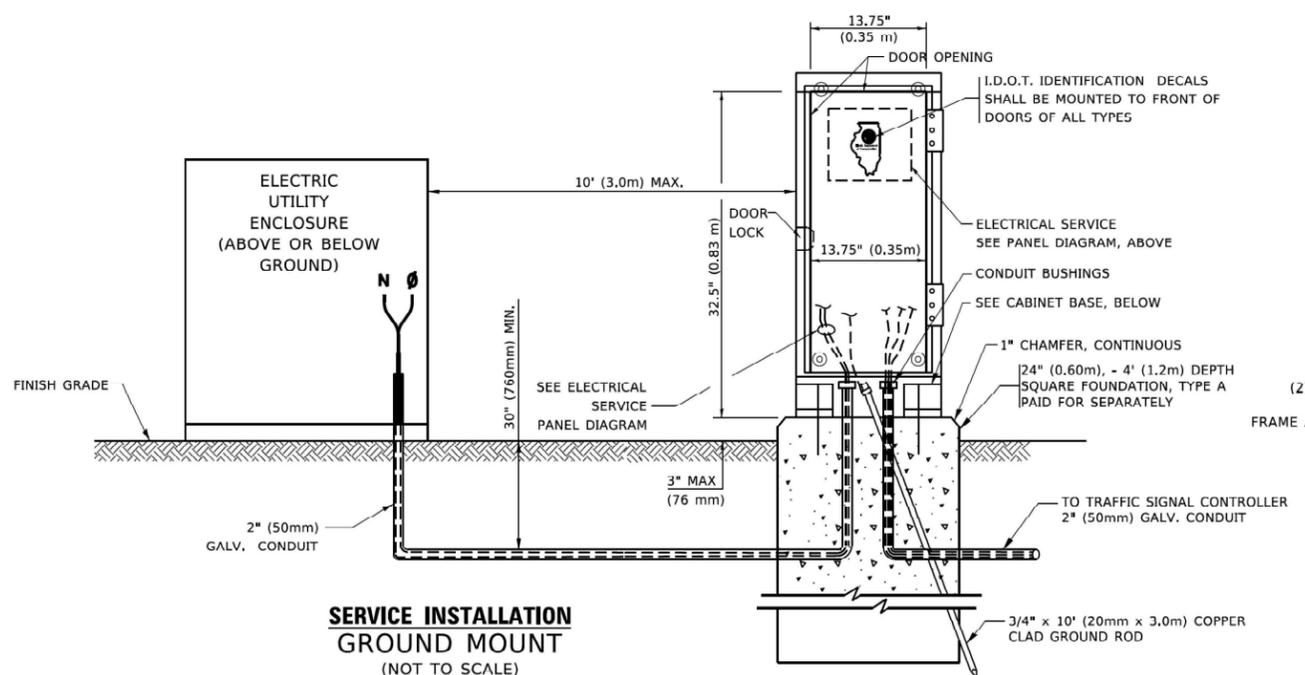
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



- NOTES:**
- GROUNDING SYSTEM**
- 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.
 - 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.
 - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



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



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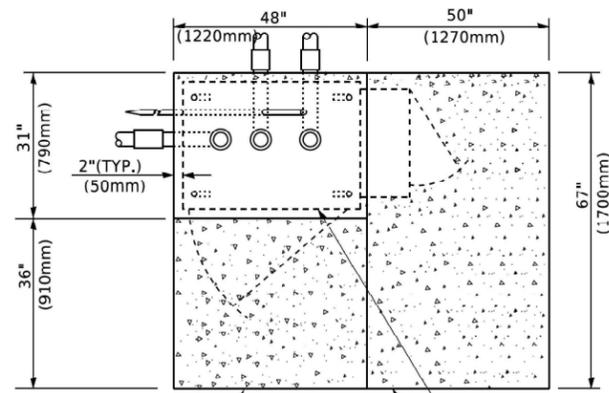
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

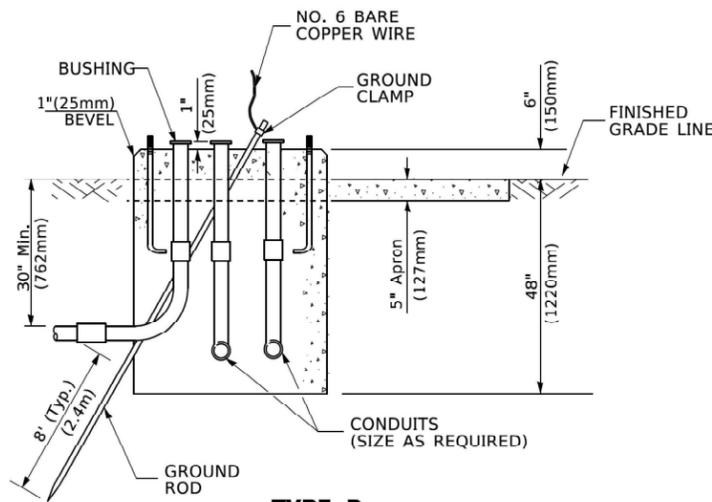
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	TS-05	CONTRACT NO.	62W61	
ILLINOIS / FED. AID PROJECT				

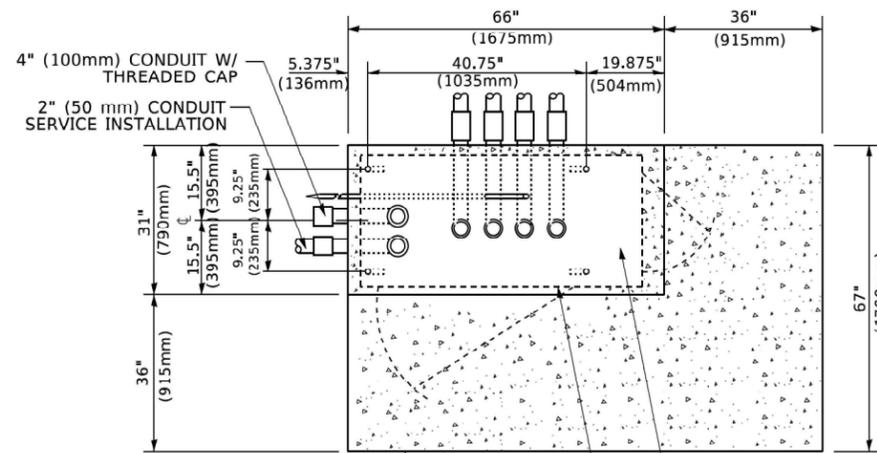
SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.



TOP VIEW

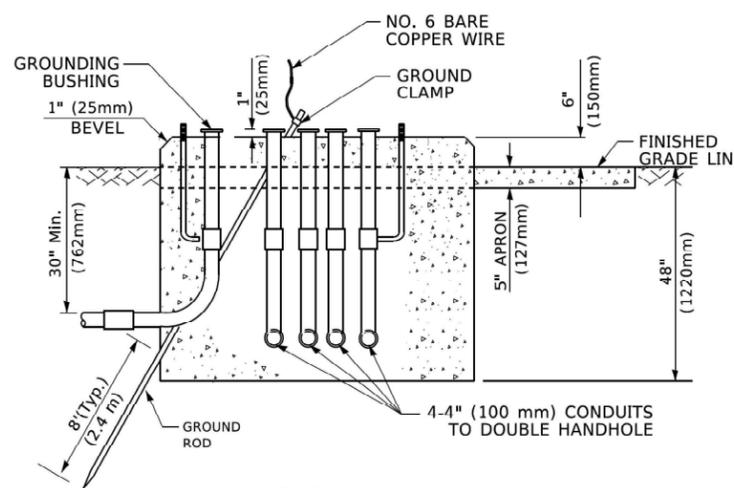


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

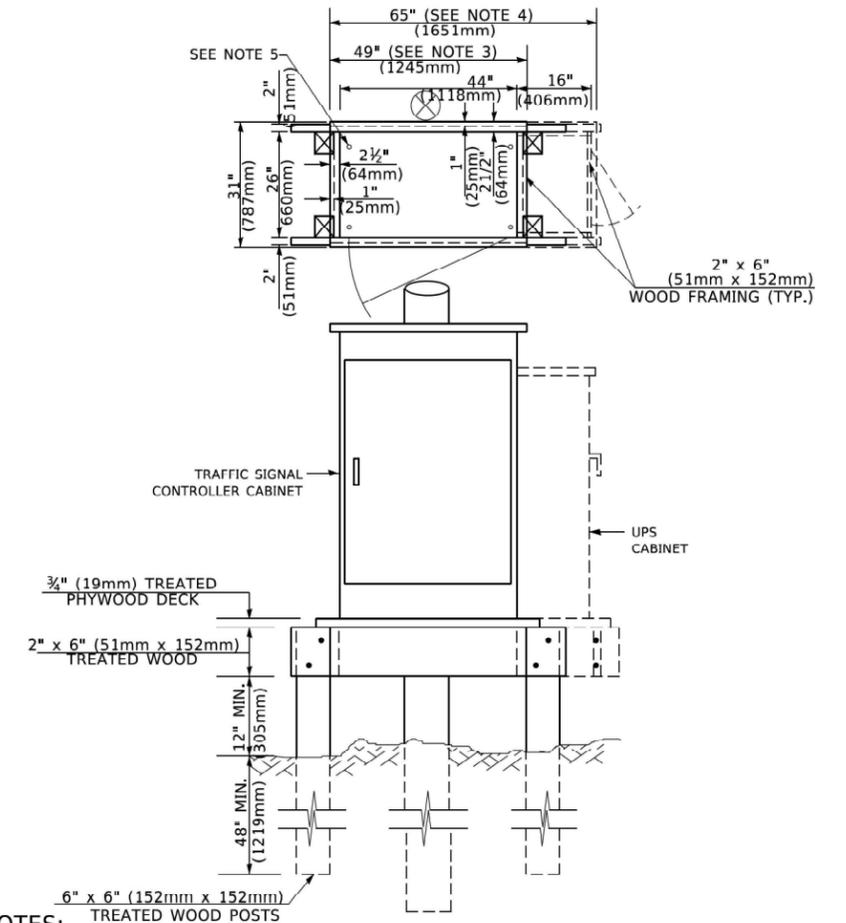


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL
BE HIGHER THAN TOP OF
DOUBLE HANDHOLE



**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

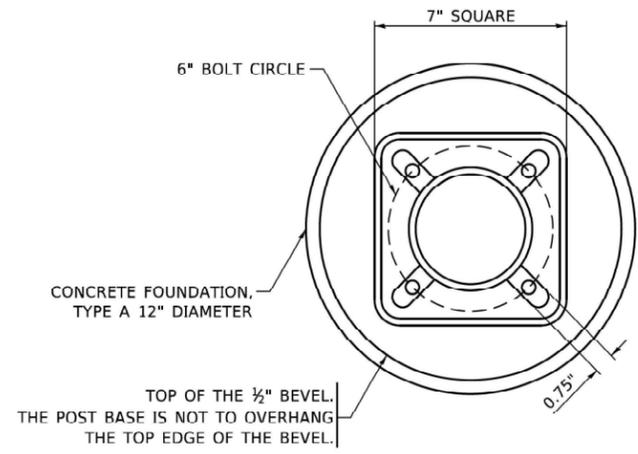
MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal 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..

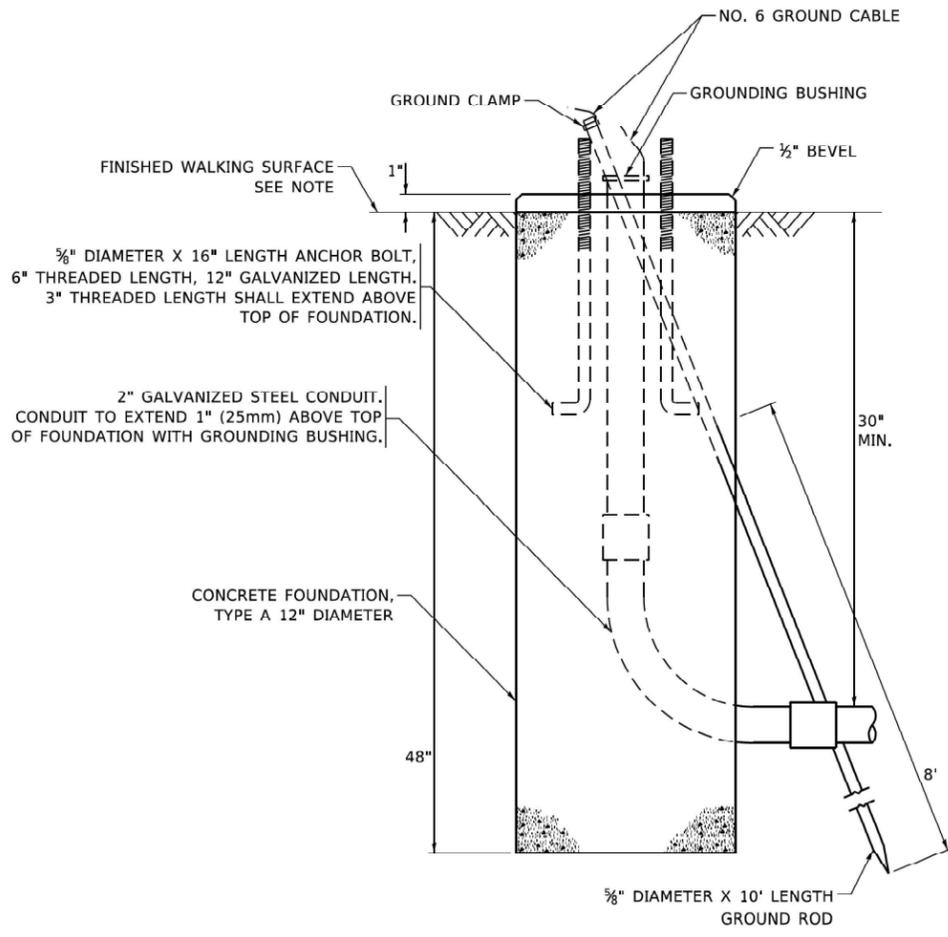
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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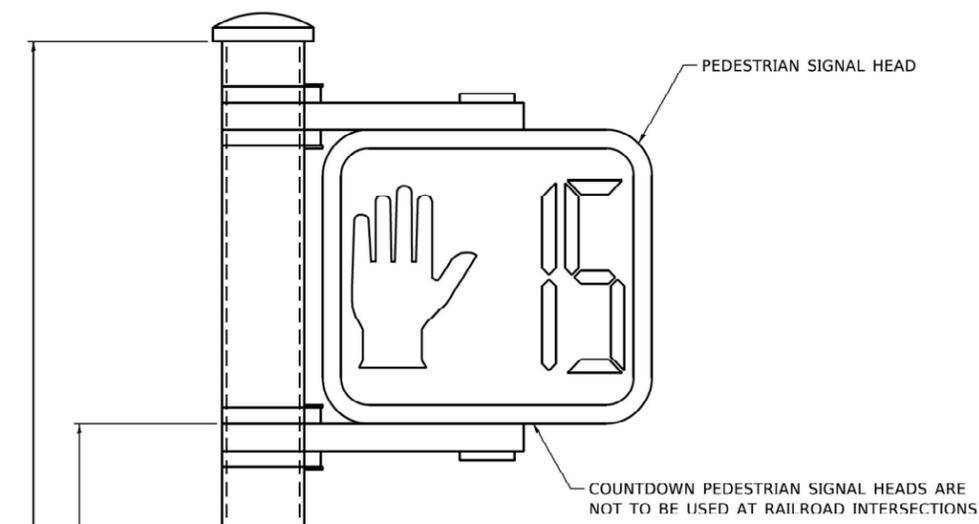


BOLT PATTERN

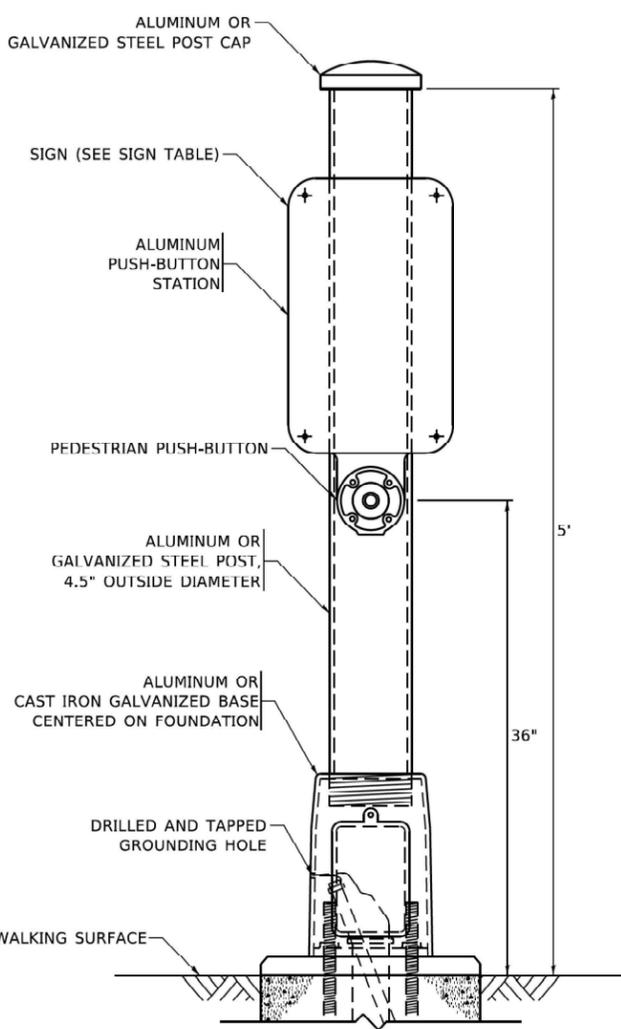
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



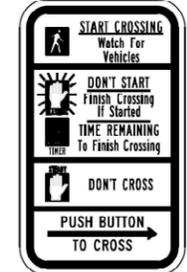
PEDESTRIAN SIGNAL POST, 5 FT.



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 12"

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

MODEL: D:\dlz\... FILE NAME: X:\p\... DATE: 11/23/2020



USER NAME = gaganob	DESIGNED - IP	REVISED - 10-15-2020
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	DATE - 10-15-2018	REVISED -

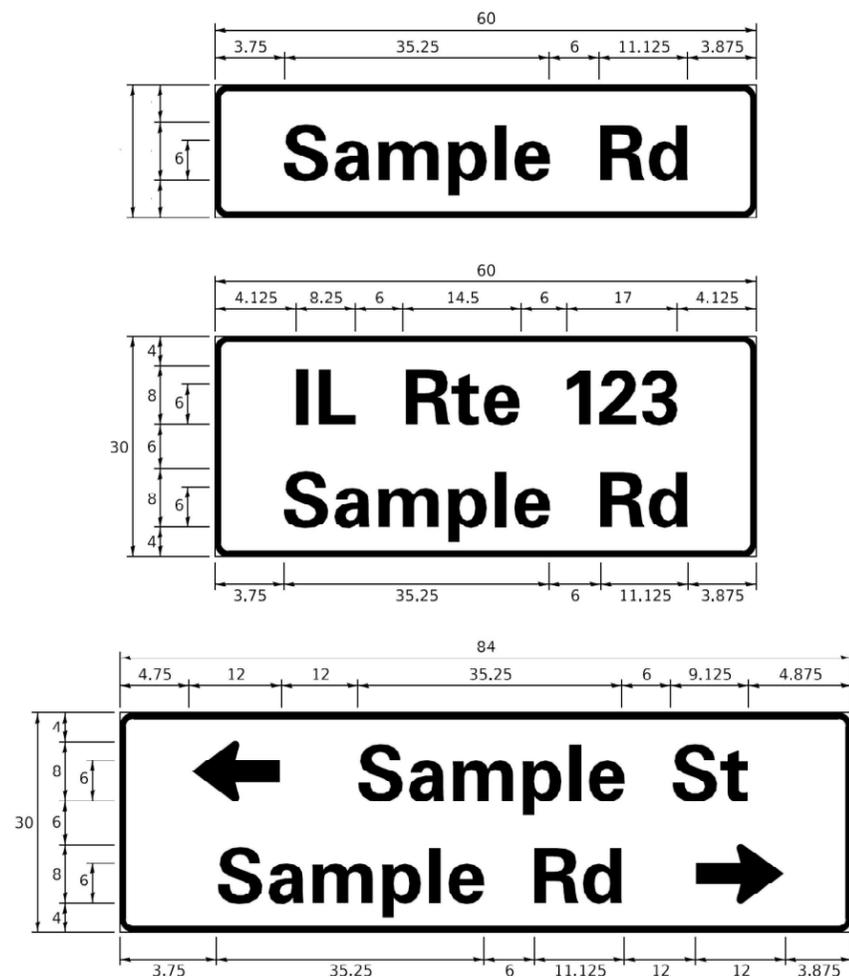
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: SHEET 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	19
TS-05		CONTRACT NO. 62W61		
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	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

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

LOCAL SUPPLIERS:

- I.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

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

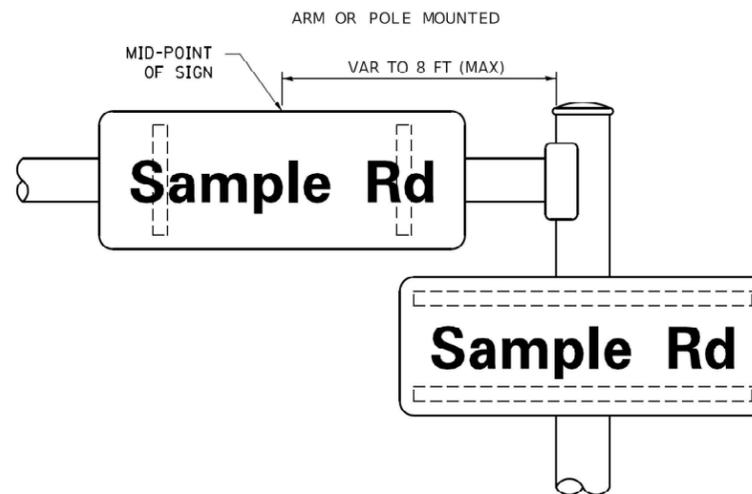
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

STANDARD ALPHABETS SPACING CHART

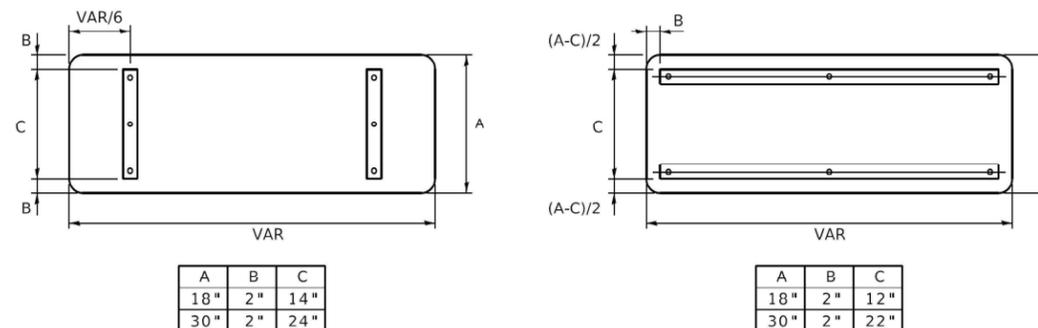
(8") UPPER CASE AND (6") LOWER CASE

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

MOUNTING LOCATION



SUPPORTING CHANNELS



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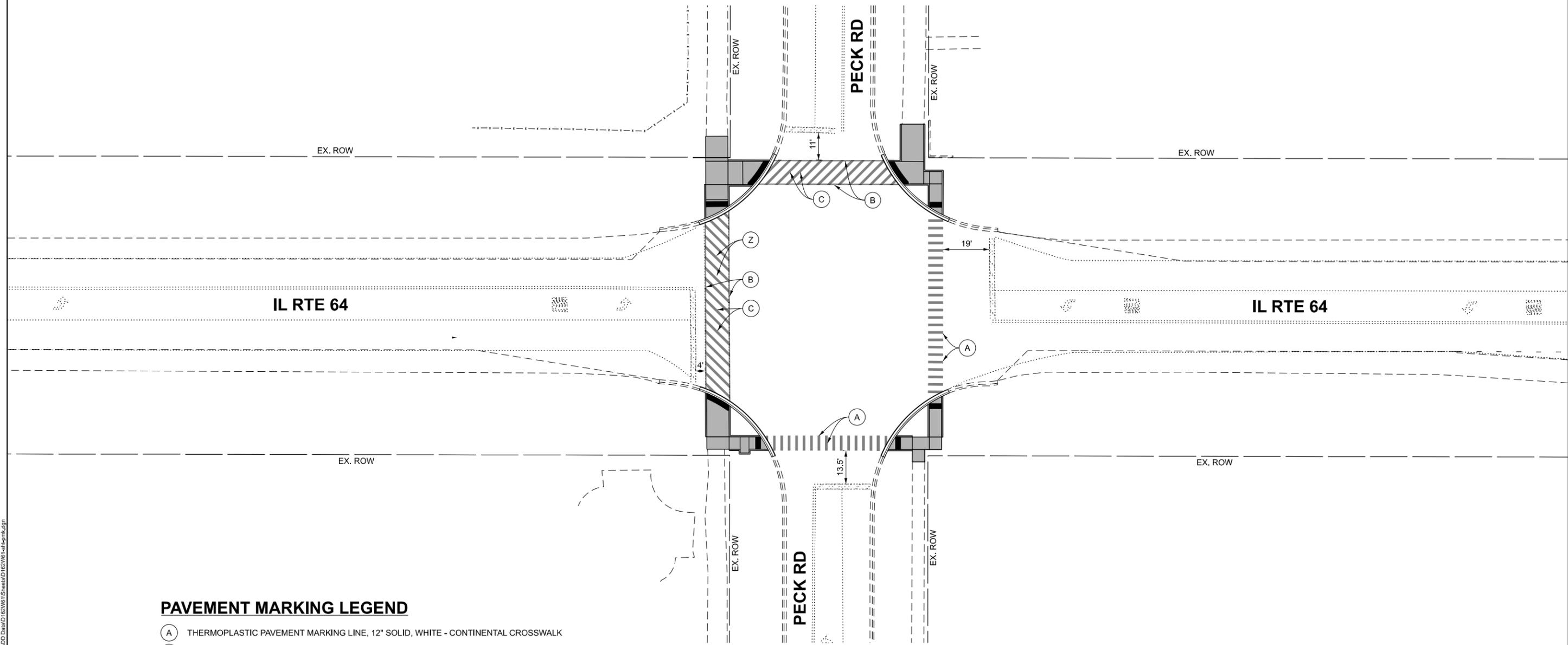
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	20
	TS-02	CONTRACT NO.	62W61	
	ILLINOIS FED. AID PROJECT			



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID, WHITE - CONTINENTAL CROSSWALK
- (B) THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID, WHITE - CROSSWALK LINES, 2 @ 10' C-C
- (C) THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID, WHITE - BICYCLE CROSSWALK
- (Z) PAVEMENT MARKING REMOVAL - WATER BLASTING

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TS 877



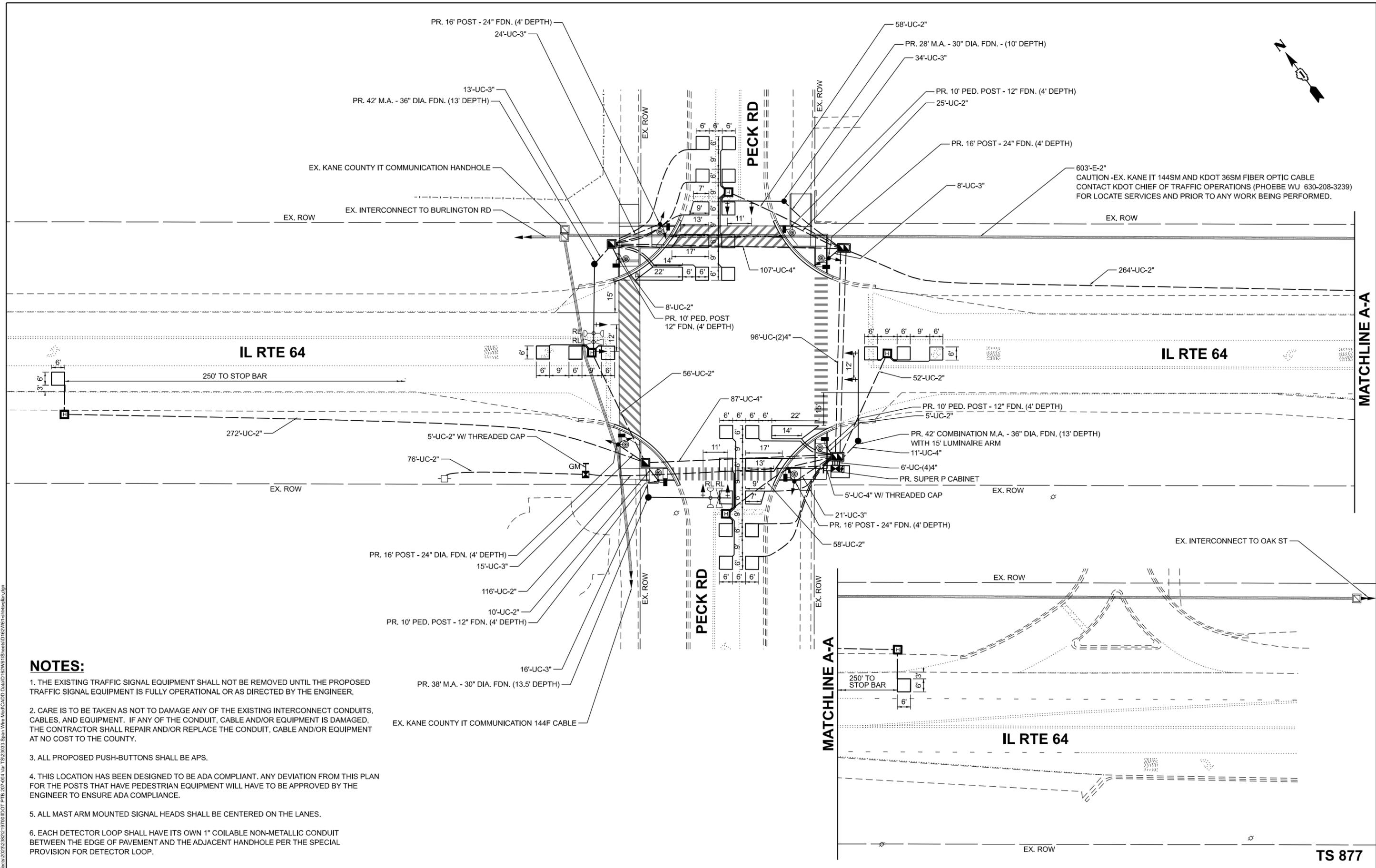
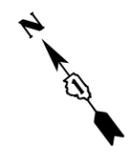
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PLOT SCALE = 40,000' = 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 1/24/2025	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
IL RTE 64 AND PECK RD**

SCALE: 1"=20' SHEET 1 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	21
			CONTRACT NO. 62W61	
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING INTERCONNECT CONDUITS, CABLES, AND EQUIPMENT. IF ANY OF THE CONDUIT, CABLE AND/OR EQUIPMENT IS DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT, CABLE AND/OR EQUIPMENT AT NO COST TO THE COUNTY.
3. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
4. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
5. ALL MAST ARM MOUNTED SIGNAL HEADS SHALL BE CENTERED ON THE LANES.
6. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE PER THE SPECIAL PROVISION FOR DETECTOR LOOP.

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PLOT DATE = 1/24/2025	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODERNIZATION PLAN	
IL RTE 64 AND PECK RD	
SCALE: 1"=20'	SHEET 3 OF 8 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	23
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

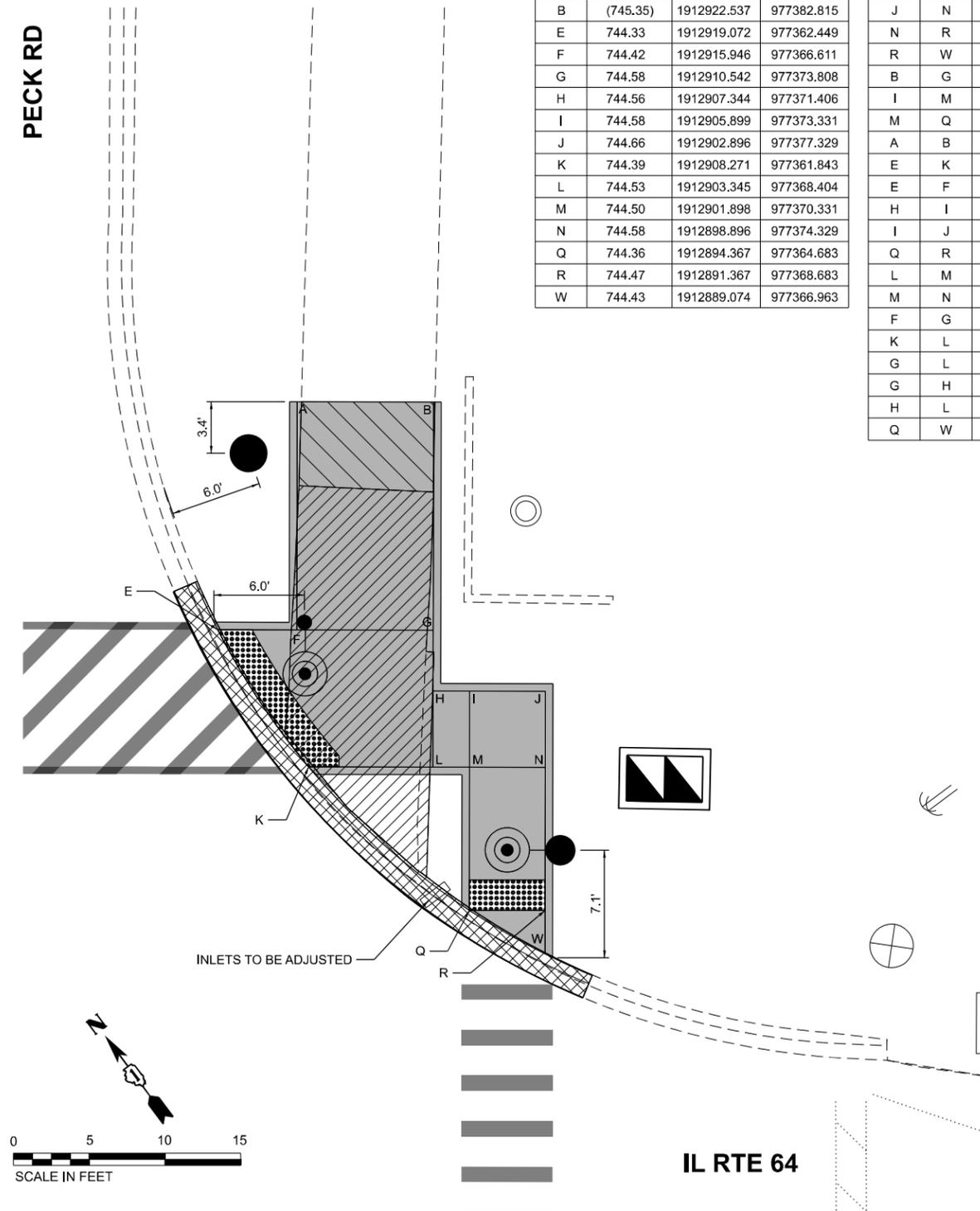
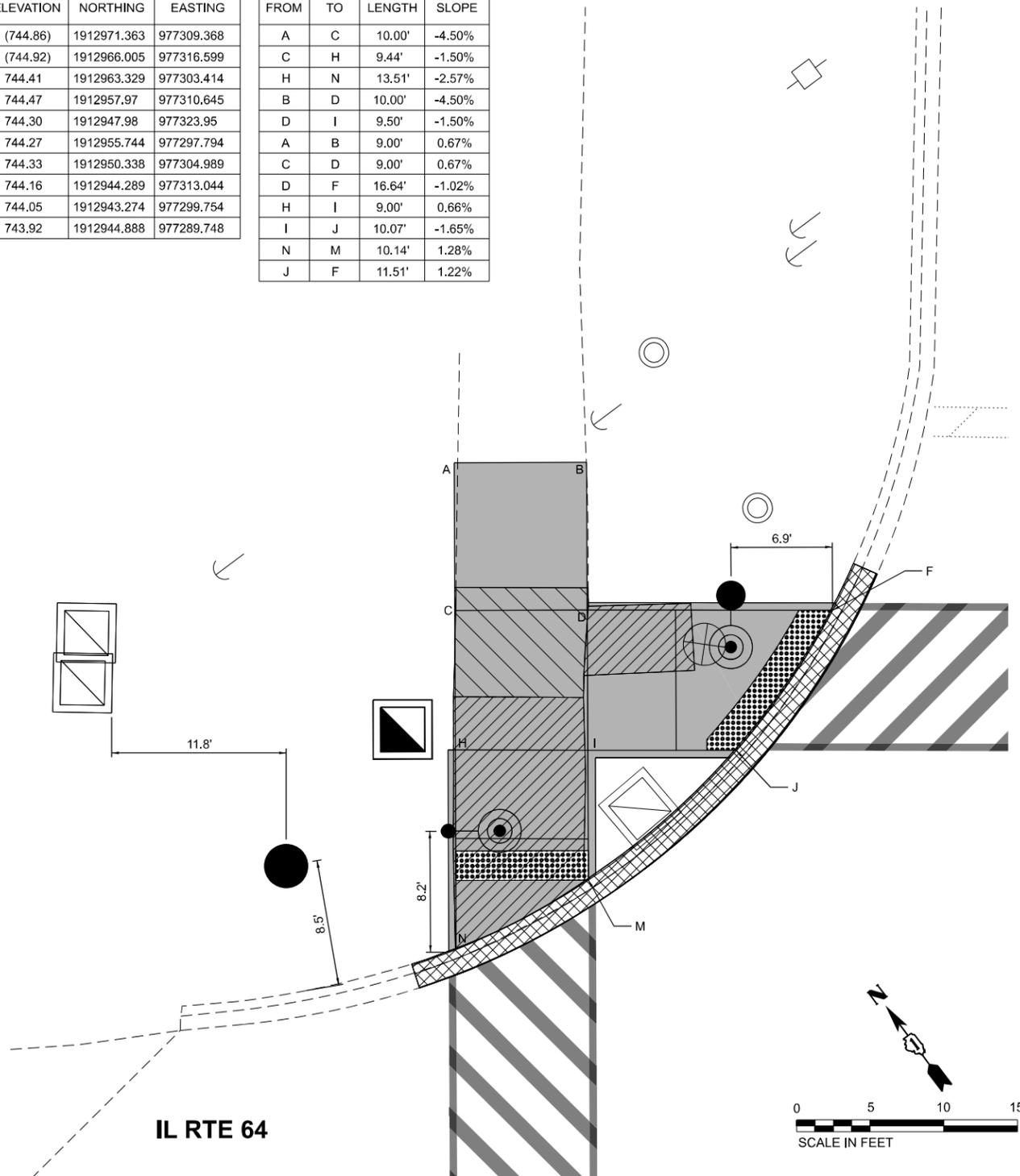
TS 877

POINT	ELEVATION	NORTHING	EASTING
A	(744.86)	1912971.363	977309.368
B	(744.92)	1912966.005	977316.599
C	744.41	1912963.329	977303.414
D	744.47	1912957.97	977310.645
F	744.30	1912947.98	977323.95
H	744.27	1912955.744	977297.794
I	744.33	1912950.338	977304.989
J	744.16	1912944.289	977313.044
M	744.05	1912943.274	977299.754
N	743.92	1912944.888	977289.748

FROM	TO	LENGTH	SLOPE
A	C	10.00'	-4.50%
C	H	9.44'	-1.50%
H	N	13.51'	-2.57%
B	D	10.00'	-4.50%
D	I	9.50'	-1.50%
A	B	9.00'	0.67%
C	D	9.00'	0.67%
D	F	16.64'	-1.02%
H	I	9.00'	0.66%
I	J	10.07'	-1.65%
N	M	10.14'	1.28%
J	F	11.51'	1.22%

POINT	ELEVATION	NORTHING	EASTING
A	(745.11)	1912927.941	977375.618
B	(745.35)	1912922.537	977382.815
E	744.33	1912919.072	977362.449
F	744.42	1912915.946	977366.611
G	744.58	1912910.542	977373.808
H	744.56	1912907.344	977371.406
I	744.58	1912905.899	977373.331
J	744.66	1912902.896	977377.329
K	744.39	1912908.271	977361.843
L	744.53	1912903.345	977368.404
M	744.50	1912901.898	977370.331
N	744.58	1912898.896	977374.329
Q	744.36	1912894.367	977364.683
R	744.47	1912891.367	977368.683
W	744.43	1912889.074	977366.963

FROM	TO	LENGTH	SLOPE
A	F	15.00'	-4.59%
J	N	5.00'	-1.50%
N	R	9.41'	-1.25%
R	W	2.87'	-1.25%
B	G	15.00'	-5.14%
I	M	5.00'	-1.50%
M	Q	9.41'	-1.50%
A	B	9.00'	2.67%
E	K	10.82'	0.55%
E	F	5.21'	1.75%
H	I	2.41'	0.73%
I	J	5.00'	1.64%
Q	R	5.00'	2.12%
L	M	2.41'	-1.34%
M	N	5.00'	1.65%
F	G	9.00'	1.75%
K	L	8.20'	1.75%
G	L	9.00'	-0.50%
G	H	4.00'	-0.50%
H	L	5.00'	-0.50%
Q	W	5.76'	1.21%



LOCATION:
NORTHWEST CORNER @ IL 64 & PECK RD

LOCATION:
NORTHEAST CORNER @ IL 64 & PECK RD

- XX.XX' EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION / SLOPE

LEGEND

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- BIKE PATH REMOVAL
REPLACE W/ TOPSOIL & SOD
(WHERE APPLICABLE)
- SIDEWALK REMOVAL
REPLACE W/ TOPSOIL & SOD
(WHERE APPLICABLE)
- COMBINATION CURB
AND GUTTER REMOVAL
AND REPLACEMENT
GREATER THAN 10 FT.

TS 877

MODEL: IL 64 and Peck Rd - NE
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USER NAME = Dwlklorzak
 PLOT SCALE = 40,000' / in.
 PLOT DATE = 12/24/2025

DESIGNED - ZH
 DRAWN - RG
 CHECKED - DW
 DATE - 12/20/2024

REVISED - 1/24/25
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

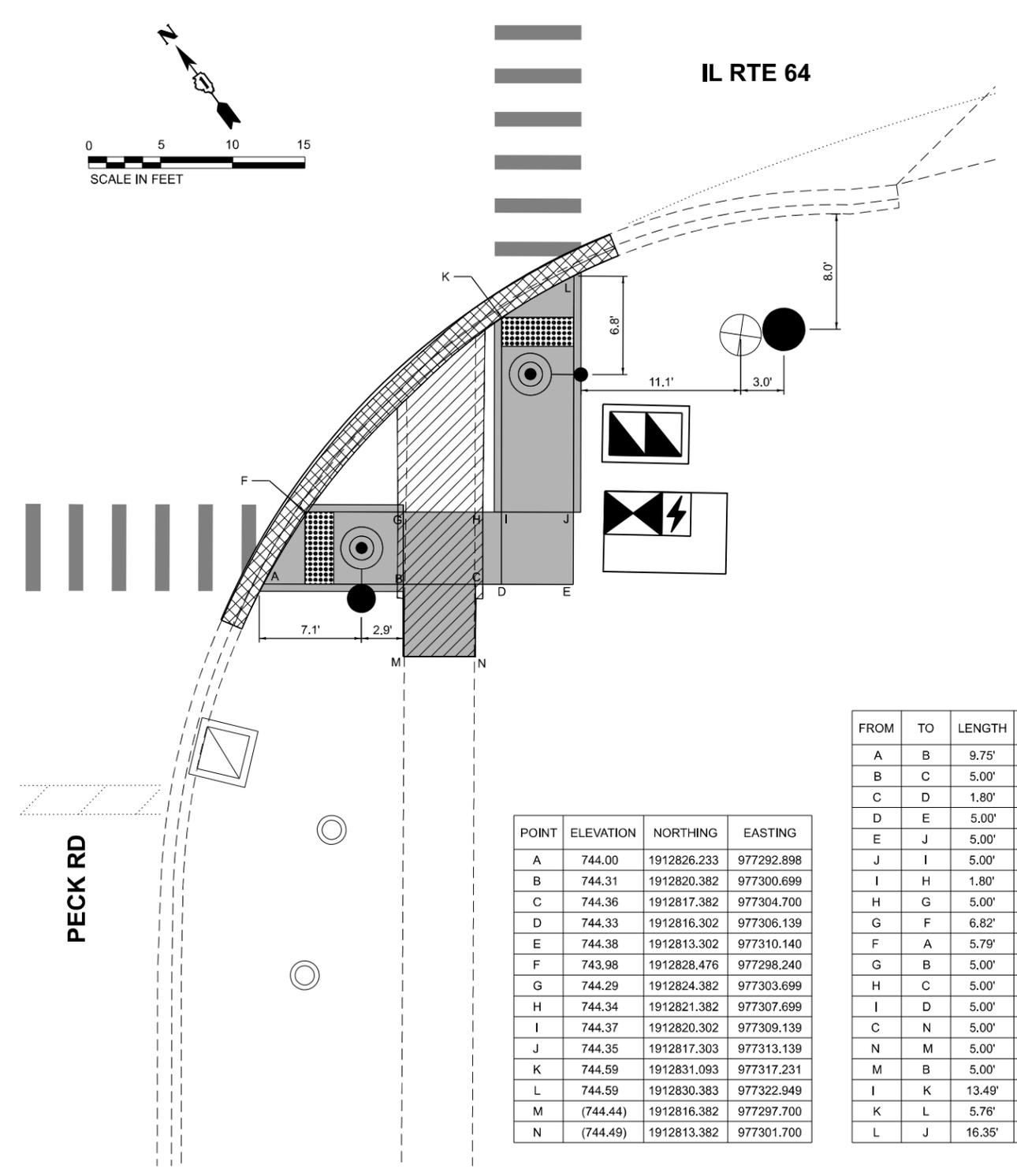
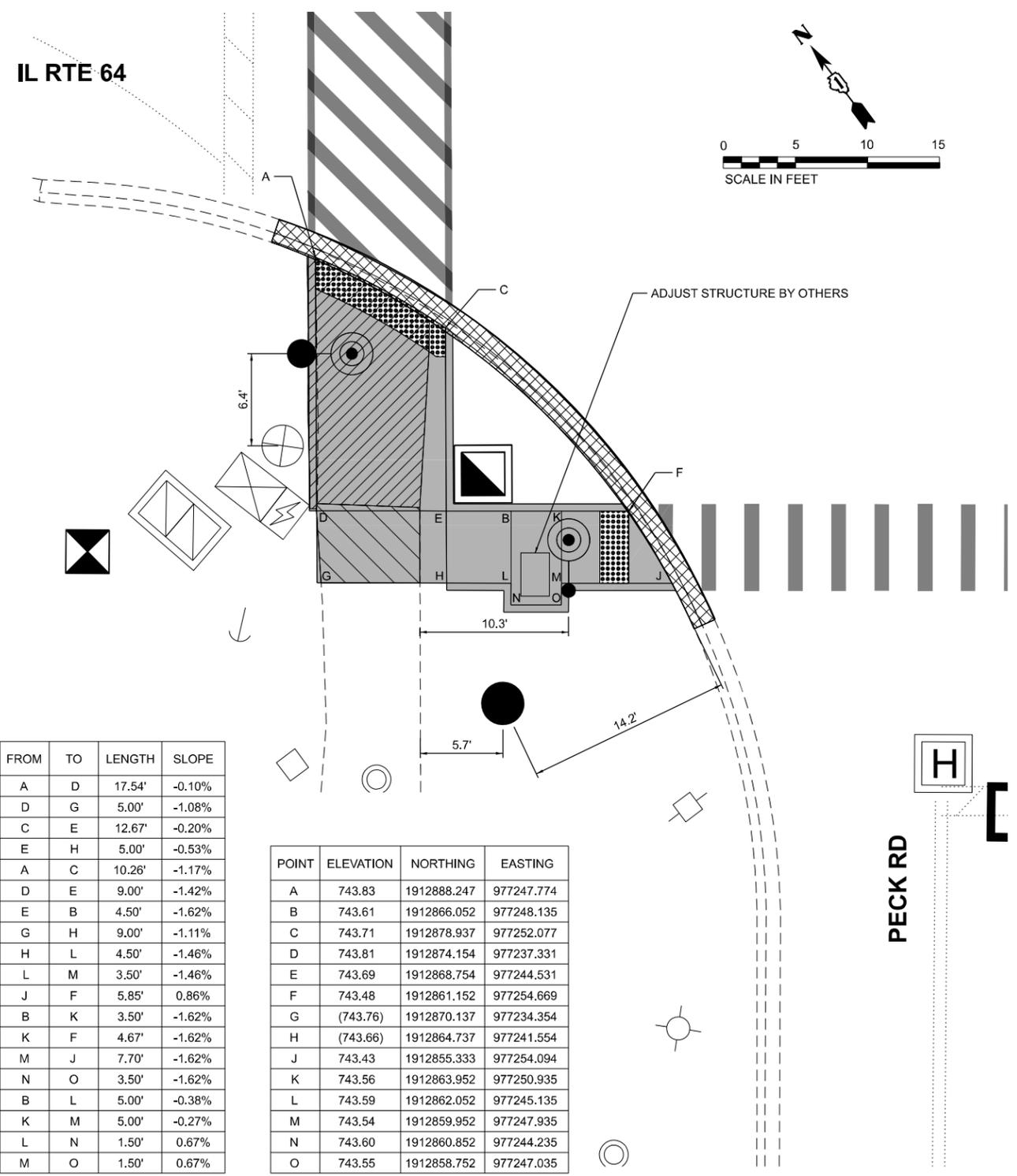
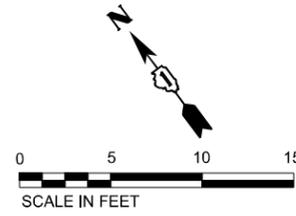
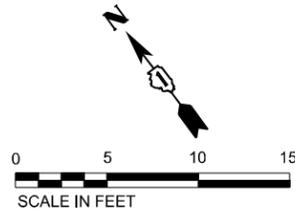
SIGNAL PLACEMENT AND CURB RAMP DETAILS
IL RTE 64 AND PECK RD - NW & NE

SCALE: 1"=5' SHEET 4 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	24
CONTRACT NO. 62W61				
ILLINOIS FED. AID PROJECT				

IL RTE 64

IL RTE 64



FROM	TO	LENGTH	SLOPE
A	D	17.54'	-0.10%
D	G	5.00'	-1.08%
C	E	12.67'	-0.20%
E	H	5.00'	-0.53%
A	C	10.26'	-1.17%
D	E	9.00'	-1.42%
E	B	4.50'	-1.62%
G	H	9.00'	-1.11%
H	L	4.50'	-1.46%
L	M	3.50'	-1.46%
J	F	5.85'	0.86%
B	K	3.50'	-1.62%
K	F	4.67'	-1.62%
M	J	7.70'	-1.62%
N	O	3.50'	-1.62%
B	L	5.00'	-0.38%
K	M	5.00'	-0.27%
L	N	1.50'	0.67%
M	O	1.50'	0.67%

POINT	ELEVATION	NORTHING	EASTING
A	743.83	1912888.247	977247.774
B	743.61	1912866.052	977248.135
C	743.71	1912878.937	977252.077
D	743.81	1912874.154	977237.331
E	743.69	1912868.754	977244.531
F	743.48	1912861.152	977254.669
G	(743.76)	1912870.137	977234.354
H	(743.66)	1912864.737	977241.554
J	743.43	1912855.333	977254.094
K	743.56	1912863.952	977250.935
L	743.59	1912862.052	977245.135
M	743.54	1912859.952	977247.935
N	743.60	1912860.852	977244.235
O	743.55	1912858.752	977247.035

POINT	ELEVATION	NORTHING	EASTING
A	744.00	1912826.233	977292.898
B	744.31	1912820.382	977300.699
C	744.36	1912817.382	977304.700
D	744.33	1912816.302	977306.139
E	744.38	1912813.302	977310.140
F	743.98	1912828.476	977298.240
G	744.29	1912824.382	977303.699
H	744.34	1912821.382	977307.699
I	744.37	1912820.302	977309.139
J	744.35	1912817.303	977313.139
K	744.59	1912831.093	977317.231
L	744.59	1912830.383	977322.949
M	(744.44)	1912816.382	977297.700
N	(744.49)	1912813.382	977301.700

FROM	TO	LENGTH	SLOPE
A	B	9.75'	3.18%
B	C	5.00'	1.00%
C	D	1.80'	-1.73%
D	E	5.00'	1.01%
E	J	5.00'	-0.75%
J	I	5.00'	0.49%
I	H	1.80'	-1.78%
H	G	5.00'	-1.00%
G	F	6.82'	-4.50%
F	A	5.79'	0.31%
G	B	5.00'	0.52%
H	C	5.00'	0.52%
I	D	5.00'	-0.75%
C	N	5.00'	2.51%
N	M	5.00'	-1.00%
M	B	5.00'	-2.51%
I	K	13.49'	1.60%
K	L	5.76'	0.00%
L	J	16.35'	-1.50%

LOCATION:
SOUTHWEST CORNER @ IL 64 & PECK RD

LOCATION:
SOUTHEAST CORNER @ IL 64 & PECK RD

- XX.XX' EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION / SLOPE

LEGEND

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- BIKE PATH REMOVAL REPLACE W/ TOPSOIL & SOD (WHERE APPLICABLE)
- SIDEWALK REMOVAL REPLACE W/ TOPSOIL & SOD (WHERE APPLICABLE)
- COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FT.

MODEL: IL 64 and Peck Rd - SW
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USER NAME = Dwlkiorzak	DESIGNED - ZH	REVISED - 1/24/25
PLOT SCALE = 40,000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 12/20/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

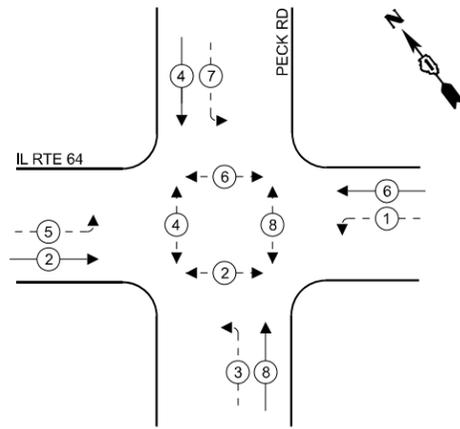
**SIGNAL PLACEMENT AND CURB RAMP DETAILS
IL RTE 64 AND PECK RD - SW & SE**

SCALE: 1"=5' SHEET 5 OF 8 SHEETS STA. TO STA.

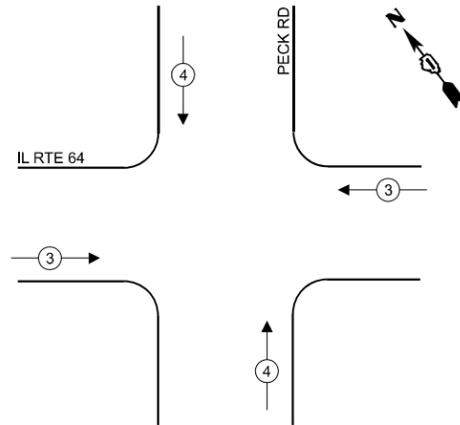
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	25
CONTRACT NO. 62W61			ILLINOIS FED.AID PROJECT	

TS 877

**PROPOSED
CONTROLLER SEQUENCE**



**PROPOSED
EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



LEGEND

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

NOTE:

1. ALL RED INDICATIONS SHALL HAVE LENS COVER.

**TRAFFIC SIGNAL ELECTRICAL
SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	8	11	88
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	8	15	120
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR OR VIDEO	1	25	25
PTZ CAMERA	-	20	-
NETWORK SWITCH II OR III	-	75	-
CELLULAR MODEM	-	35	-
		15	
TOTAL UPS SIZING			487
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN LUMINAIRE	-	120	-
		240	
TOTAL SERVICE WIRE SIZING			1092

ENERGY COSTS TO:
CITY OF ST. CHARLES

2 E. MAIN ST.
ST. CHARLES, IL 60174

ENERGY SUPPLY:

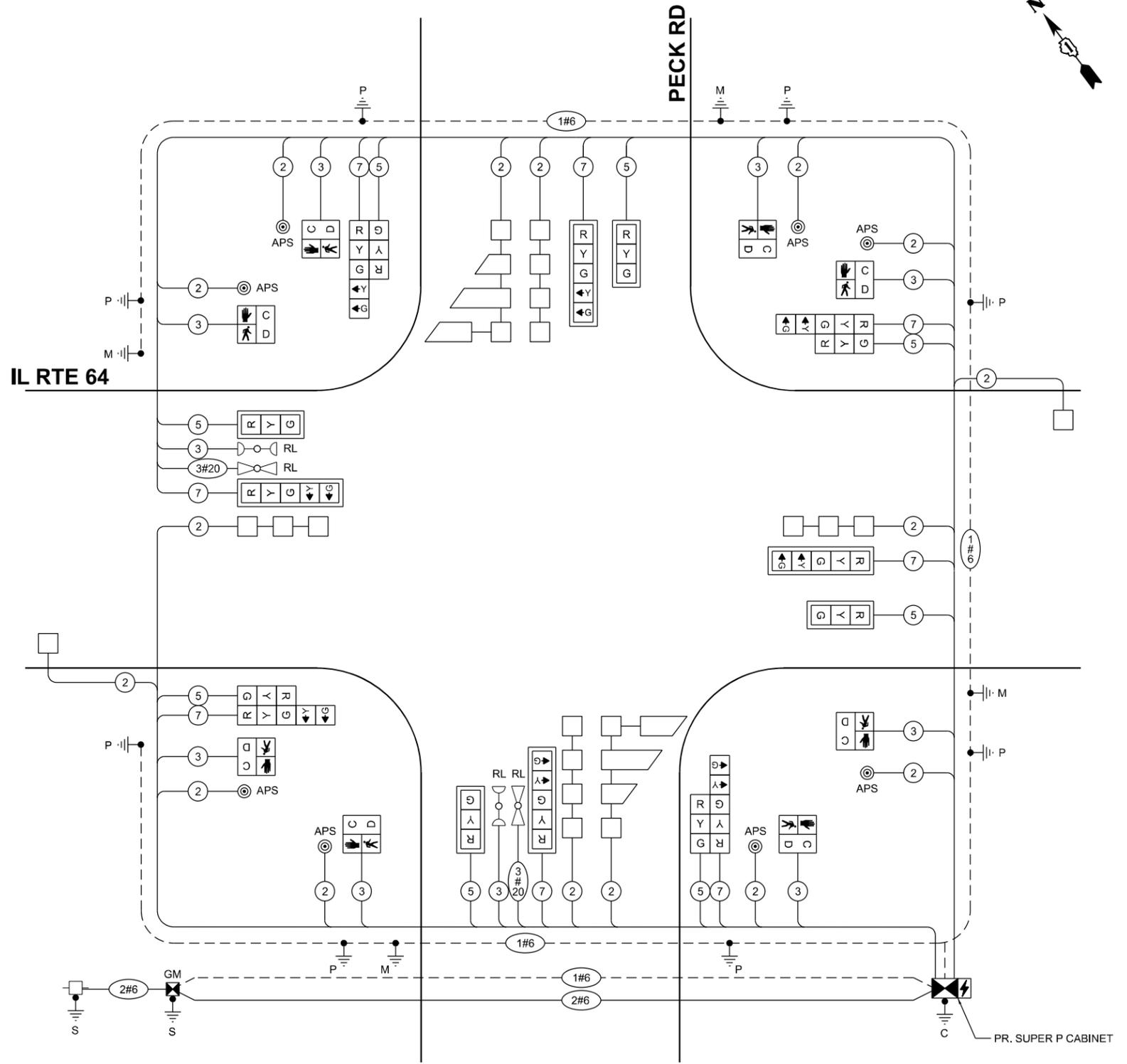
CONTACT: PAUL HOPKINS - PUBLIC WORKS MANAGER

PHONE: (630)-377-4407

COMPANY: CITY OF ST. CHARLES MUNICIPAL ELECTRIC UTILITY

ACCOUNT NUMBER:

METER NUMBER:



CABLE PLAN
(NOT TO SCALE)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 64 AND PECK RD**

SCALE: SHEET 6 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	26
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

TS 877

MODEL: TS 877, IL 64 and Peck Rd
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USER NAME =	Dwlkiorzak
DESIGNED -	ZH
DRAWN -	RG
REVISIED -	1/24/25
CHECKED -	DW
REVISIED -	
DATE -	12/20/2024
REVISIED -	
PLOT SCALE =	40,000' = 1" = 1/4"
PLOT DATE =	1/24/2025

SCHEDULE OF QUANTITIES

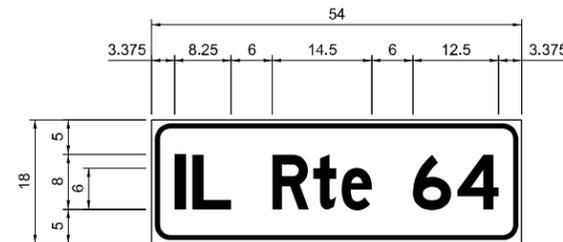
ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SUPPLEMENTAL WATERING	UNIT	2
EARTH EXCAVATION	CU YD	25
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	99
SODDING, SALT TOLERANT	SQ YD	99
BITUMINOUS MATERIALS (TACK COAT)	POUND	32
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	8
PROTECTIVE COAT	SQ YD	200
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1316
DETECTABLE WARNINGS	SQ FT	123
HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	71
SIDEWALK REMOVAL	SQ FT	601
INLETS TO BE ADJUSTED	EACH	1
SIGN PANEL - TYPE 1	SQ FT	25.5
THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	494
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	652
PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	331
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1005
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	131
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	426
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	6
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1245
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1800
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1455
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1505
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1615
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	230
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	900
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	1134
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	520
BIKE PATH REMOVAL	SQ YD	25
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	160
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
LED SIGNAL FACE, LENS COVER	EACH	16
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

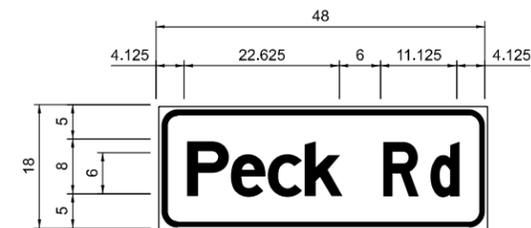
* - 100% COST TO THE VILLAGE OF ST. CHARLES

SIGN PANEL DETAIL - TYPE 1

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



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



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2

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

TS 877

MODEL: TS 877
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USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/24/25
PLOT SCALE = 40,000''/In	DRAWN - RG	REVISED -
PLOT DATE = 1/24/2025	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 AND PECK RD**

SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2023-940-N,TS	VAR	74	27
			CONTRACT NO. 62W61	
			ILLINOIS FED. AID PROJECT	

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USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED - 1/24/25
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 1/24/2025	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.

IL RTE 64 AND PECK RD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	28
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

TS 877

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 UNIT BID PRICE. THIS WORK SHALL BE PAID UNDER THE PAY ITEM REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

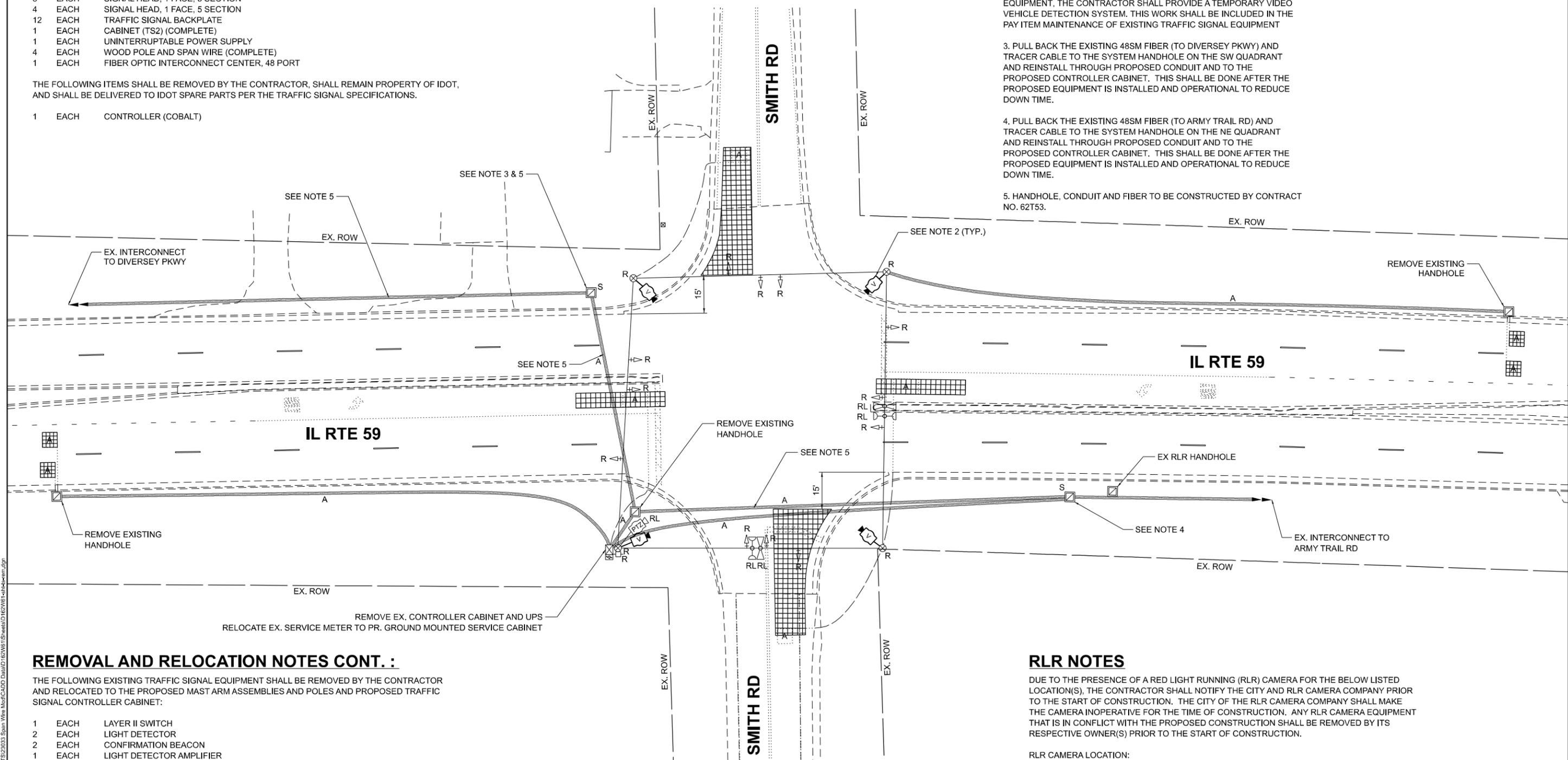
- 1 EACH SERVICE INSTALLATION
- 8 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 4 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 12 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH CABINET (TS2) (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY
- 4 EACH WOOD POLE AND SPAN WIRE (COMPLETE)
- 1 EACH FIBER OPTIC INTERCONNECT CENTER, 48 PORT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN PROPERTY OF IDOT, AND SHALL BE DELIVERED TO IDOT SPARE PARTS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER (COBALT)

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE EXISTING DETECTOR LOOPS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. IF THE DETECTOR LOOPS CANNOT BE MAINTAINED DUE TO CONSTRUCTION OF THE PROPOSED SIGNAL EQUIPMENT, THE CONTRACTOR SHALL PROVIDE A TEMPORARY VIDEO VEHICLE DETECTION SYSTEM. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
3. PULL BACK THE EXISTING 48SM FIBER (TO DIVERSEY PKWY) AND TRACER CABLE TO THE SYSTEM HANDHOLE ON THE SW QUADRANT AND REINSTALL THROUGH PROPOSED CONDUIT AND TO THE PROPOSED CONTROLLER CABINET. THIS SHALL BE DONE AFTER THE PROPOSED EQUIPMENT IS INSTALLED AND OPERATIONAL TO REDUCE DOWN TIME.
4. PULL BACK THE EXISTING 48SM FIBER (TO ARMY TRAIL RD) AND TRACER CABLE TO THE SYSTEM HANDHOLE ON THE NE QUADRANT AND REINSTALL THROUGH PROPOSED CONDUIT AND TO THE PROPOSED CONTROLLER CABINET. THIS SHALL BE DONE AFTER THE PROPOSED EQUIPMENT IS INSTALLED AND OPERATIONAL TO REDUCE DOWN TIME.
5. HANDHOLE, CONDUIT AND FIBER TO BE CONSTRUCTED BY CONTRACT NO. 62T53.



REMOVAL AND RELOCATION NOTES CONT. :

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES AND POLES AND PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET:

- 1 EACH LAYER II SWITCH
- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH PTZ CAMERA

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THIS WORK SHALL BE PAID UNDER THE PAY ITEM RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT:

- 1 EACH SERVICE METER

RLR NOTES

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATION(S), THE CONTRACTOR SHALL NOTIFY THE CITY AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE CITY OF 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 OWNER(S) PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATION:

TS 6366 IL RTE 59 AT SMITH RD

VILLAGE OF WAYNE
5N430 RAILROAD ST
WAYNE, IL 60184
(630) 584-3090

AMERICAN TRAFFIC SOLUTIONS
7681 EAST GRAY ROAD
SCOTTSDALE, AZ 85260

TS 6366
IDOT CENTRACS
FORMER ECON 116

MODEL: IL_65_664_Smith_Rd
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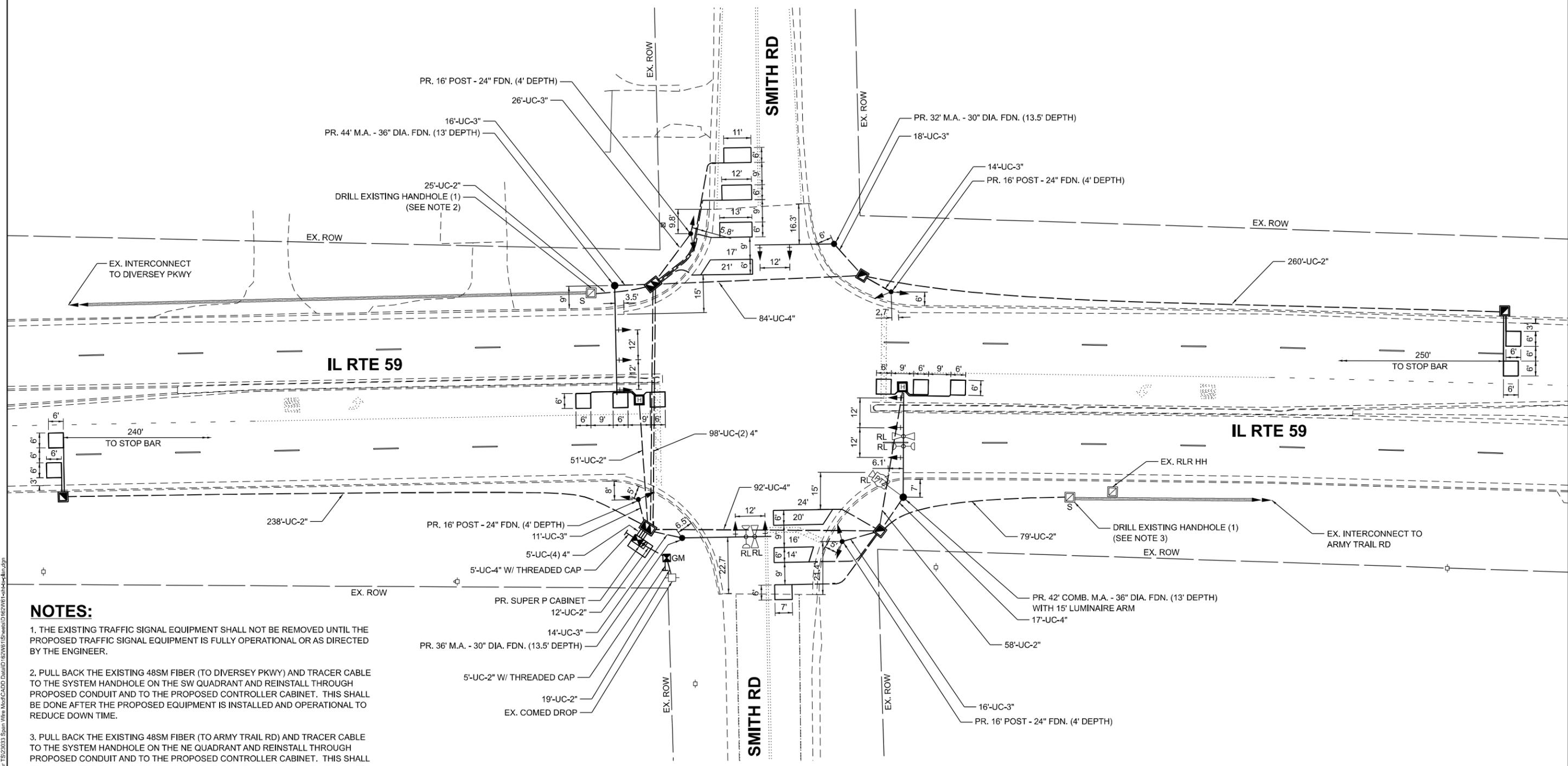
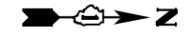
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PLOT SCALE = 40,000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 12/23/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN AND REMOVAL PLAN
IL RTE 59 AND SMITH RD

SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	29
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. PULL BACK THE EXISTING 48SM FIBER (TO DIVERSEY PKWY) AND TRACER CABLE TO THE SYSTEM HANDHOLE ON THE SW QUADRANT AND REINSTALL THROUGH PROPOSED CONDUIT AND TO THE PROPOSED CONTROLLER CABINET. THIS SHALL BE DONE AFTER THE PROPOSED EQUIPMENT IS INSTALLED AND OPERATIONAL TO REDUCE DOWN TIME.
3. PULL BACK THE EXISTING 48SM FIBER (TO ARMY TRAIL RD) AND TRACER CABLE TO THE SYSTEM HANDHOLE ON THE NE QUADRANT AND REINSTALL THROUGH PROPOSED CONDUIT AND TO THE PROPOSED CONTROLLER CABINET. THIS SHALL BE DONE AFTER THE PROPOSED EQUIPMENT IS INSTALLED AND OPERATIONAL TO REDUCE DOWN TIME.
4. MAST ARM MOUNTED SIGNAL HEADS FOR IL RTE 59 SHALL BE CENTERED ON THE LANES. MAST ARM MOUNTED SIGNAL HEADS FOR SMITH RD SHALL BE ALIGNED WITH THE LANE LINES.
5. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE PER THE SPECIAL PROVISION FOR DETECTOR LOOP.

MODEL: IL_69_464_Smith_Rd
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USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' = 1" IN.	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

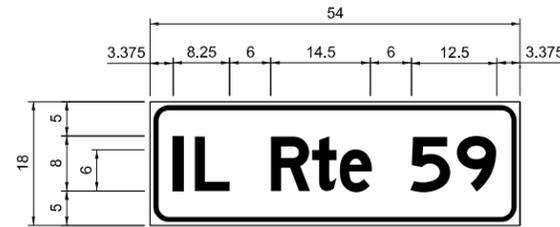
TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 59 AND SMITH RD			
SCALE: 1"=20'	SHEET 2	OF 7 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	30
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

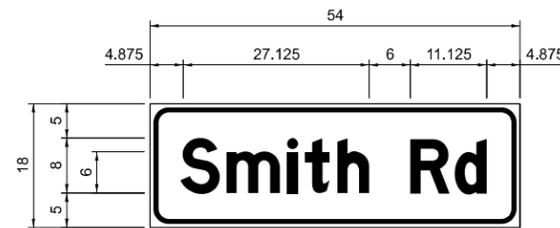
TS 6366
IDOT CENTRACS
FORMER ECON 116

SIGN PANEL DETAIL - TYPE 1

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



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



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

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	27
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	747
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	115
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	414
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	275
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2485
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	730
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2035
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	70
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	690
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	645
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	780
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	275
RELOCATE SWITCH	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	180
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	18
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

* - 100% COST TO THE VILLAGE OF WAYNE

MODEL: TS 6366
FILE NAME: X:\Projects\2023\2822\17701\DOT\PTB_202404_Vir_TSU20233_Span_Wire_MastCAADD\DrawID\62W61\Sheet01\2822\61-traffic-sign.dgn



USER NAME = Dwlktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40,000' / 1 in.	DRAWN - RG	REVISED -
PLOT DATE = 12/23/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

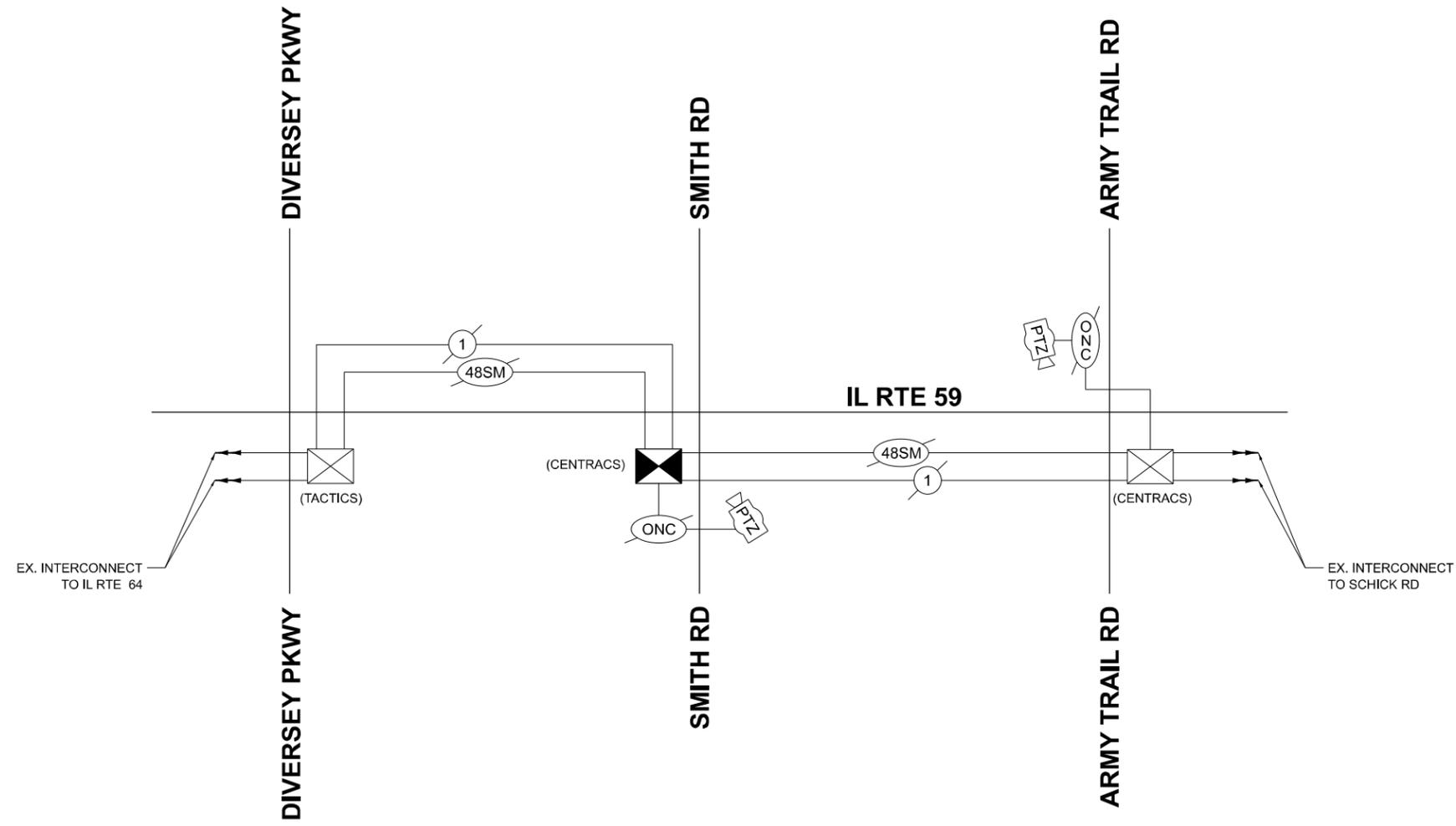
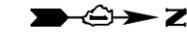
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 59 AND SMITH RD

SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	32
			CONTRACT NO. 62W61	
ILLINOIS		FED. AID PROJECT		

TS 6366
IDOT CENTRACS
FORMER ECON 116



NOTE:
 THE EXISTING FIBER OPTIC AND TRACER CABLES TO ARMY TRAIL RD AND DIVERSEY PKWY SHALL BE REINSTALLED TO THE PROPOSED CONTROLLER CABINET AT IL RTE 59 AND SMITH RD.

**IDOT CENTRACS & IDOT TACTICS
 FORMER ECON 116
 FORMER EAGLE 5A**

MODEL: Interconnect.sch; FILE: X:\projects\2023\20230822\17700\DOT\PTB_202404_V01\TS\202303_Span_Wire_Misc\CADD\Drawn\162W61\Sheet5\162W61-ILRTE59-ILRTE64-Interconnect.schematic.dwg



USER NAME = Dwlkiorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
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PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

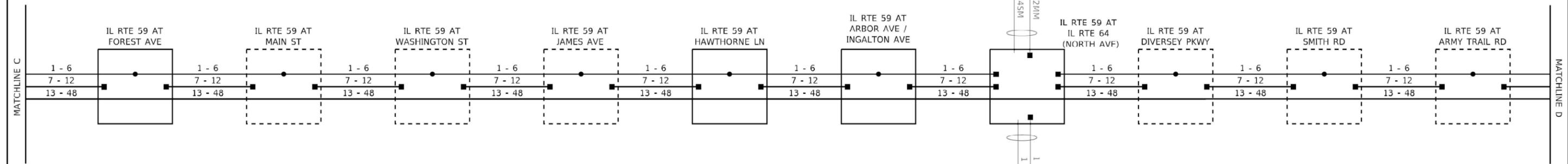
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC
 IL RTE 59 AND SMITH RD**

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	33
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



MODEL: fiber splicing diagram - IL RTE 59.dwg
 FILENAME: X:\projects\2024\2024-12-23\DOT_FTB_20-504_Van_TSB\202433_Spa_Wire_MedCAD\DD_Dwg\ID1226161\Sheet\0162766-4\IL RTE 59.dwg

- 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
- EXISTING HYBRID MULTI MODE / SINGLE MODE FIBER

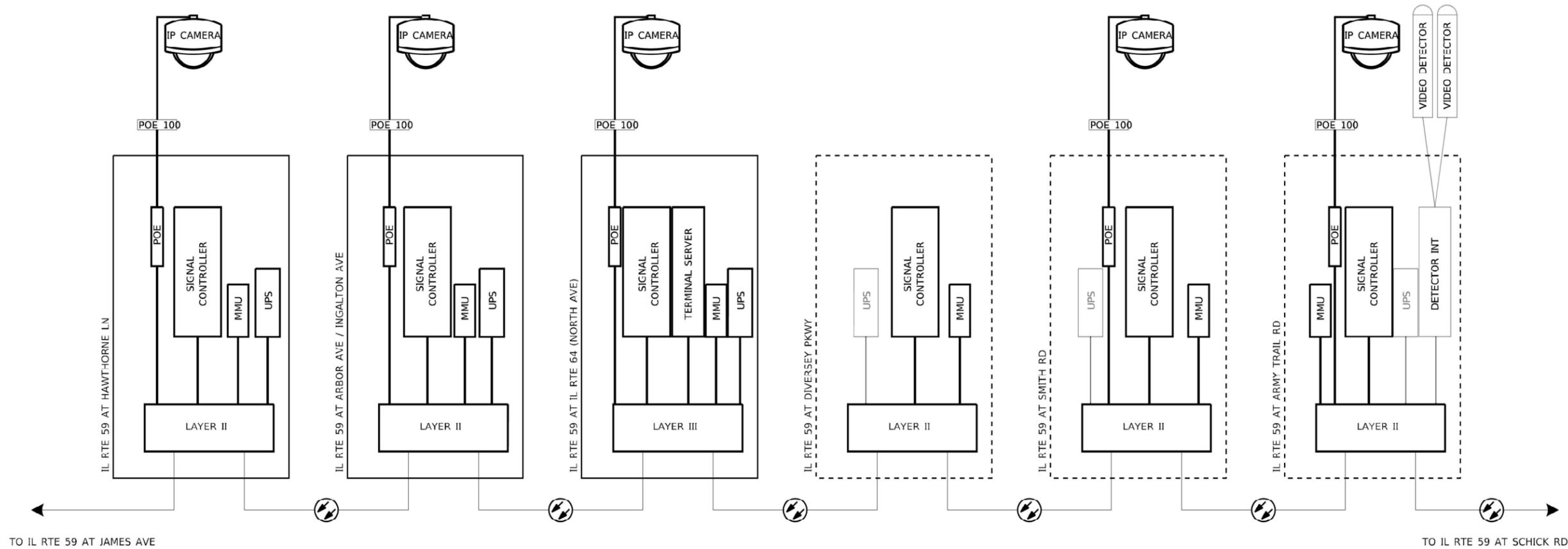


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PLOT SCALE = 40,000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIBER SPlicing DIAGRAM SHEET	
IL RTE 59 AND SMITH RD	
SCALE:	SHEET 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	34
			CONTRACT NO. 62W61	
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

-  EXISTING MULTIMODE FIBER CONNECTION
-  PROPOSED MULTIMODE FIBER CONNECTION
-  EXISTING SINGLEMODE FIBER CONNECTION
-  PROPOSED SINGLEMODE FIBER CONNECTION
-  EXISTING EQUIPMENT
-  PROPOSED EQUIPMENT

MODEL: \\hina.dalid - il_59_and_smith.dwg
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 DATE: 12/23/2024



USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CABINET DETAIL IL RTE 59 AND SMITH RD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		VAR	2023-940-N.TS	VAR	74	35
SCALE:	SHEET 7 OF 7 SHEETS	STA.	TO STA.	CONTRACT NO. 62W61		

ILLINOIS		FED. AID PROJECT	
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THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: Default
 FILE NAME: S:\V\IP\Design\Ivan03_InHouse_Traffic\et1_Phase2\62W61_Span Wire Replacement\62772-sheet.dgn

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	DRAWN - IP	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - NB	REVISED -
PLOT DATE = 12/16/2024	DATE - 12/16/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
 PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
 IL RTE 38 (ROOSEVELT RD) AND NICOLL WAY**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	36
			CONTRACT NO. 62W61	
			ILLINOIS FED. AID PROJECT	

THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: IL 63 and Spring Ave
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USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/31/2025
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 1/31/2025	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
IL RTE 53 AND SPRING AVE

SCALE: 1"=20' SHEET 1 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	37
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: IL 63 and Spring Ave
FILE NAME: X:\proj\2023\2023-940-N-TS\DOT\PTB 20-2004_V01\TS\202333_Spin_Wire_MedCAD\DWG\162W61\Sheets\162W61-11-16-24.dwg



USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/31/2025
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 1/31/2025	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN AND REMOVAL PLAN
IL RTE 53 AND SPRING AVE

SCALE: 1"=20' SHEET 2 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	38
			CONTRACT NO. 62W61	
		ILLINOIS FED. AID PROJECT		

THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: IL_63_Ext_Spring_Ave
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USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/31/2025
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PLOT SCALE = 40,000' = 1" / in.	CHECKED - DW	REVISED -
PLOT DATE = 1/31/2025	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
 IL RTE 53 AND SPRING AVE

SCALE: 1"=20' SHEET 3 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	39
			CONTRACT NO. 62W61	
		ILLINOIS FED. AID PROJECT		

THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: IL 63 and Spring Ave - NW&E
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USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/31/2025
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' = 1" = 1/4"	CHECKED - DW	REVISED -
PLOT DATE = 1/31/2025	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGNAL PLACEMENT AND CURB RAMP DETAILS
 IL RTE 53 AND SPRING AVE - NW & NE

SCALE: 1"=5' SHEET 4 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	40
			CONTRACT NO. 62W61	
		ILLINOIS FED. AID PROJECT		

THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: T3 2025, 1:50 and 5/16/25
FILE NAME: C:\p\3232222222\17701\DOT\PTB_202404_V01\TS20233_Spin_Wire_MedCAD\DWG\162N61\Sheets\162N61-11-16-24.dwg



USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/31/2025
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' = 1" = 1/4"	CHECKED - DW	REVISED -
PLOT DATE = 1/31/2025	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 53 AND SPRING AVE

SCALE: SHEET 6 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	42
			CONTRACT NO. 62W61	
ILLINOIS			FED. AID PROJECT	

THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: T0_0035
FILE NAME: C:\p\gis\2022\2822\1770\DOT\PTB_20-404_V01.TS\2023\Spin_Wire_MedCAD\Drawn\162\161\Sheets\162\161-162.dgn



USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/31/2025
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' = 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 1/31/2025	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 53 AND SPRING AVE

SCALE: SHEET 7 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	43
			CONTRACT NO. 62W61	
		ILLINOIS FED. AID PROJECT		

THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: T3 20250 1:50 and Dupage Blvd/Baker Hill Dr
 FILE NAME: X:\Projects\2023\2023-177\DOT DOT P110 202404_V01_TS202333_Spin_Wire_MedCADDD Data\DOT\62W61\Sheets\DOT62W61-4-11-24-24.dgn



USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/31/2025
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' = 1" = 1'	CHECKED - DW	REVISED -
PLOT DATE = 1/31/2025	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY
 VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
 IL RTE 53 AND DUPAGE BLVD/BAKER HILL DR

SCALE: SHEET 8 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62W61	

THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: TO 2025, 1, Rev 50
FILE NAME: C:\p\3\3\22222222\1770\1DOT.PTB 202404.Vor.TS\202333.Spin.Wire.MedCAD.Dwg\162N161\Sheets\162765-1-1-1.dgn



USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/31/2025
	DRAWN - RG	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 1/31/2025	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 1 OF 2)
IL RTE 53 – DUPAGE BLVD/BAKER HILL DR TO SPRING AVE

SCALE: 1"=50' SHEET 9 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	45
			CONTRACT NO. 62W61	
		ILLINOIS FED. AID PROJECT		

THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: TO 2025, 1, Rev 50, - 04 2
 FILE NAME: C:\p\3\3\2025\2025\1770\1DOT.PTB 20-2004 Var 1\2025\333 Spin Wire Mod\CADD Data\162\161\Sheets\162\161-11-11.dgn



USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/31/2025
	DRAWN - RG	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 1/31/2025	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 2 OF 2)
 IL RTE 53 – DUPAGE BLVD/BAKER HILL DR TO SPRING AVE

SCALE: 1"=50' SHEET 10 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	46
			CONTRACT NO. 62W61	
		ILLINOIS FED. AID PROJECT		

THIS LOCATION HAS BEEN REMOVED FROM THE CONTRACT

MODEL: Interconnect.schematic
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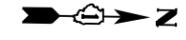
USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED - 1/31/2025
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' = 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 1/31/2025	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
 IL RTE 53 – DUPAGE BLVD/BAKER HILL DR TO SPRING AVE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	47
			CONTRACT NO. 62W61	
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET 11 OF 11 SHEETS STA. TO STA.



PRIVATE ENT

US RTE 12/20/45 (MANNHEIM RD)

US RTE 12/20/45 (MANNHEIM RD)

GLADYS AVE

PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID, WHITE - CONTINENTAL CROSSWALK
- (B) THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID, WHITE - STOP LINE
- (Z) PAVEMENT MARKING REMOVAL - WATER BLASTING

MODEL: US 12/20/45 Mannheim Rd and Gladys Ave
 FILE NAME: X:\projects\2023\20230228\2023-11-15\DOT\PTB 202404_V01_TS202303_Span Wire_MedCAD\DD Data\12/20/45\Sheet61-D1627661-1.dwg



USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED -
DRAWN - RG	REVISIONS -	
PLOT SCALE = 40,000' = 1" = 1/4"	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN			
US RTE 12/20/45 (MANNHEIM RD) AND GLADYS AVE			
SCALE: 1"=20'	SHEET 1	OF 11 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	48
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

TS 78
ECON 103

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 UNIT BID PRICE. THIS WORK SHALL BE PAID UNDER THE PAY ITEM REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

- 1 EACH SERVICE INSTALLATION
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 16 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 4 EACH WOOD POLE AND SPAN WIRE (COMPLETE)
- 1 EACH CABINET (TS2) (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY

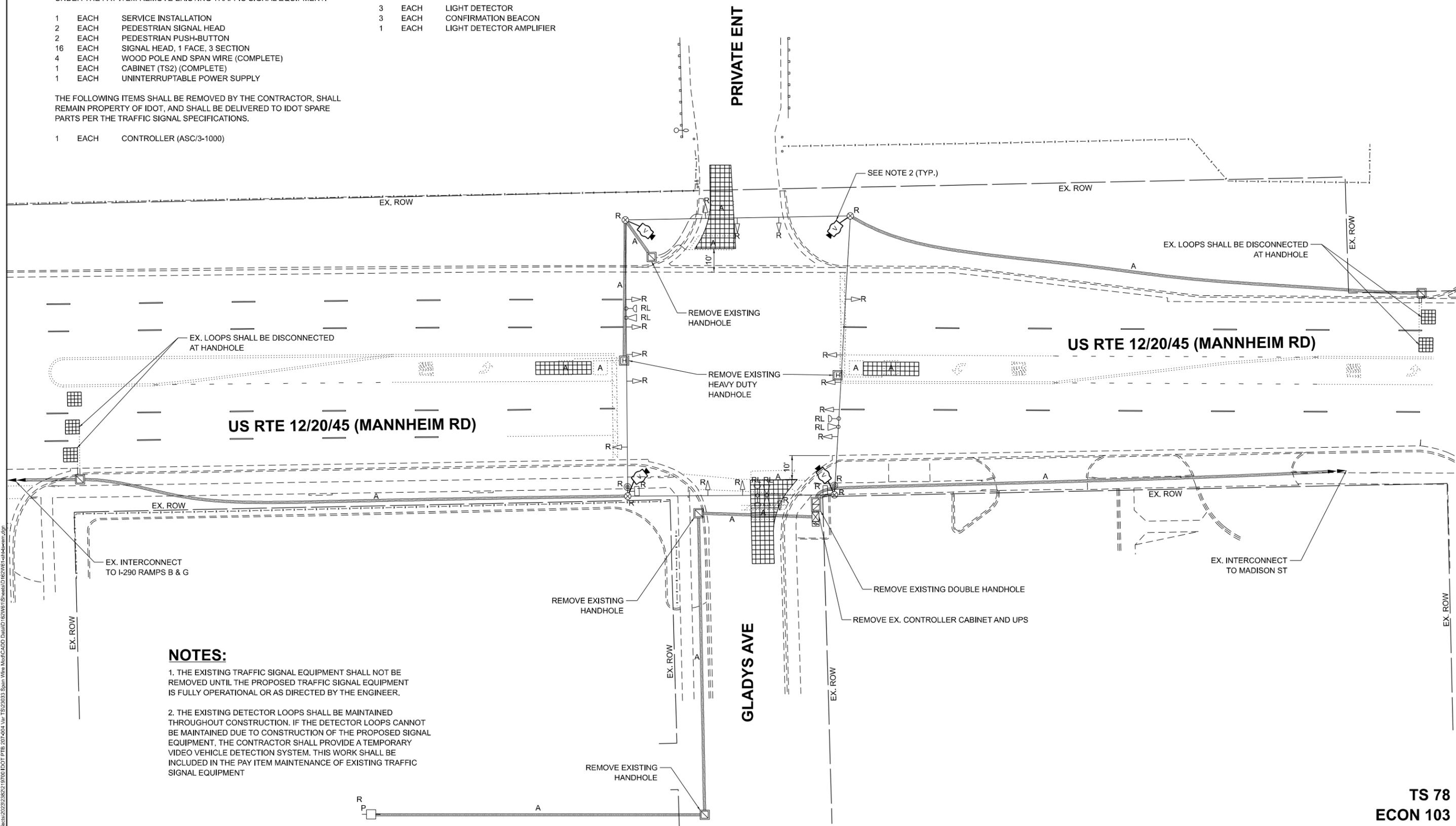
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN PROPERTY OF IDOT, AND SHALL BE DELIVERED TO IDOT SPARE PARTS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER (ASC/3-1000)

RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES AND POLES AND PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET:

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



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE EXISTING DETECTOR LOOPS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. IF THE DETECTOR LOOPS CANNOT BE MAINTAINED DUE TO CONSTRUCTION OF THE PROPOSED SIGNAL EQUIPMENT, THE CONTRACTOR SHALL PROVIDE A TEMPORARY VIDEO VEHICLE DETECTION SYSTEM. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL EQUIPMENT

MODEL: US 12/20/45 Mannheim Rd and Gladys Ave
 FILE NAME: X:\projects\2023\2023-2024\2023-2024\DOT\PTB 202404\Var TS2023033 Span Wire ModCADDD Data\12/20/45 Mannheim Rd.dgn

**TS 78
ECON 103**



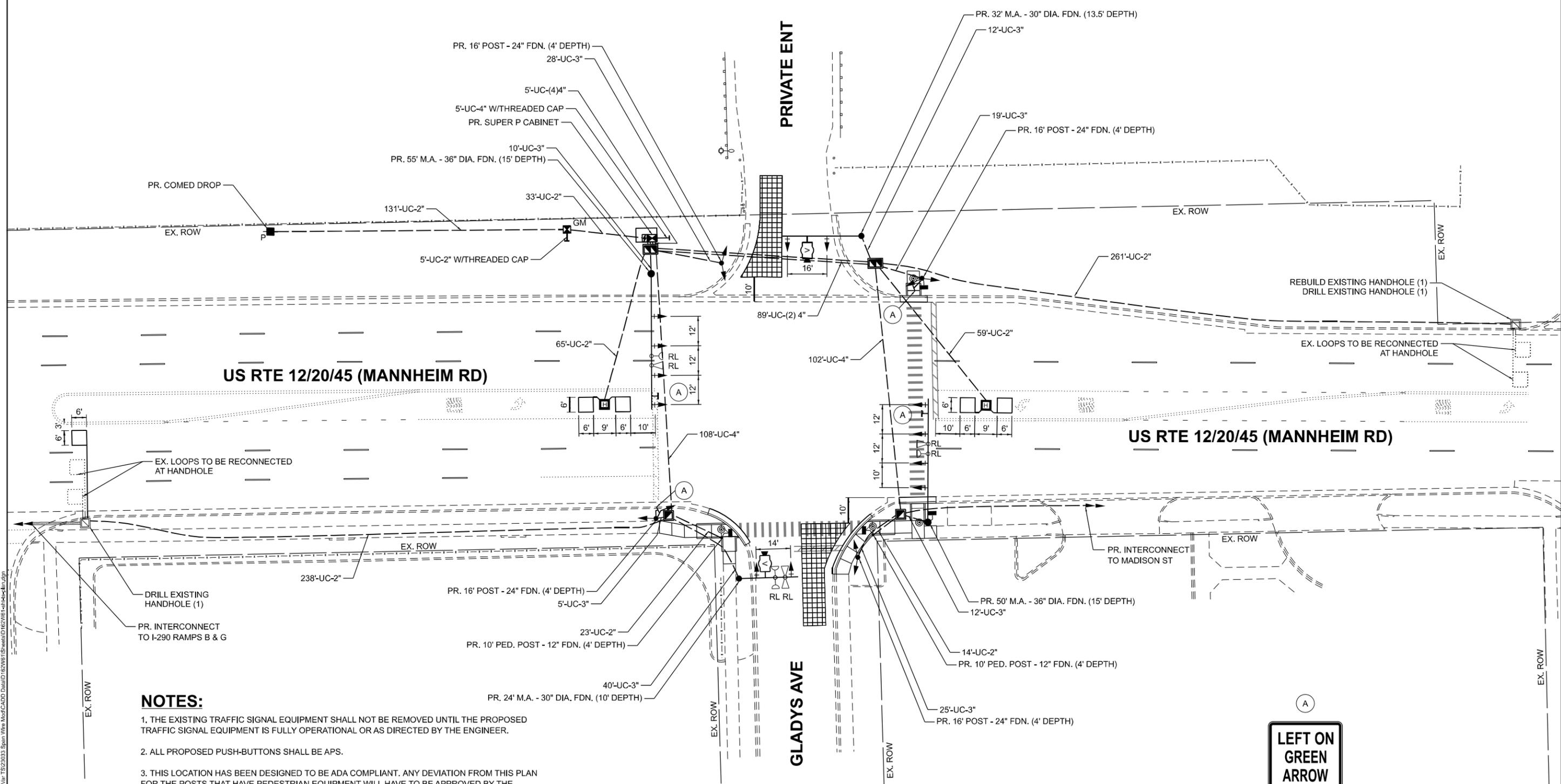
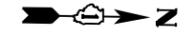
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	DRAWN - RG	REVISED -
PLOT SCALE = 40,000'"/in	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL PLAN AND REMOVAL PLAN
US RTE 12/20/45 (MANNHEIM RD) AND GLADYS AVE**

SCALE: 1"=20' SHEET 2 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	49
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
3. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
4. MAST ARM MOUNTED SIGNAL HEADS FOR US RTE 12/20/45 MANNHEIM RD SHALL BE CENTERED ON THE LANES. MAST ARM MOUNTED SIGNAL HEADS FOR GLADYS AVE / PRIVATE ENT SHALL BE ALIGNED WITH THE LANE LINES.
5. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE PER THE SPECIAL PROVISION FOR DETECTOR LOOP.



R10-5
30" x 36"
SIGN PANEL - TYPE 1
4 REQUIRED

MODEL: US 12/20/45 Mannheim Rd and Gladys Ave
 FILE NAME: X:\projects\2023\2023-02-22\2023-02-22-171011-DOT-PTB-2024-04-V1-TS202303-Span Wire ModCADDD DataID162N16151Sheet01D162N16151-1.dwg



USER NAME = Dwlkiorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / 1"	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

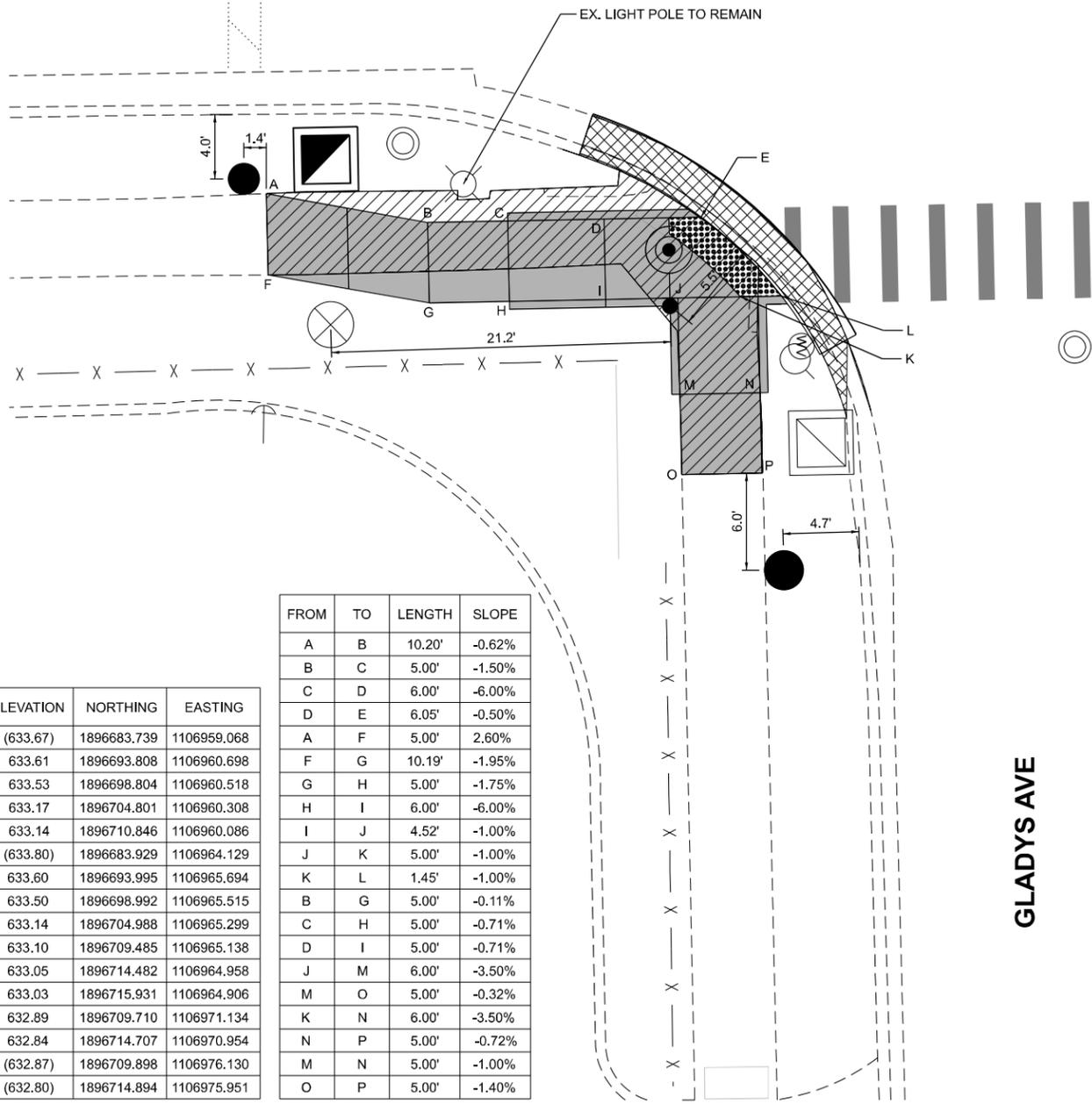
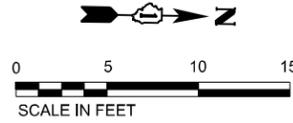
**TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 12/20/45 (MANNHEIM RD) AND GLADYS AVE**

SCALE: 1"=20' SHEET 3 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	50
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

**TS 78
ECON 103**

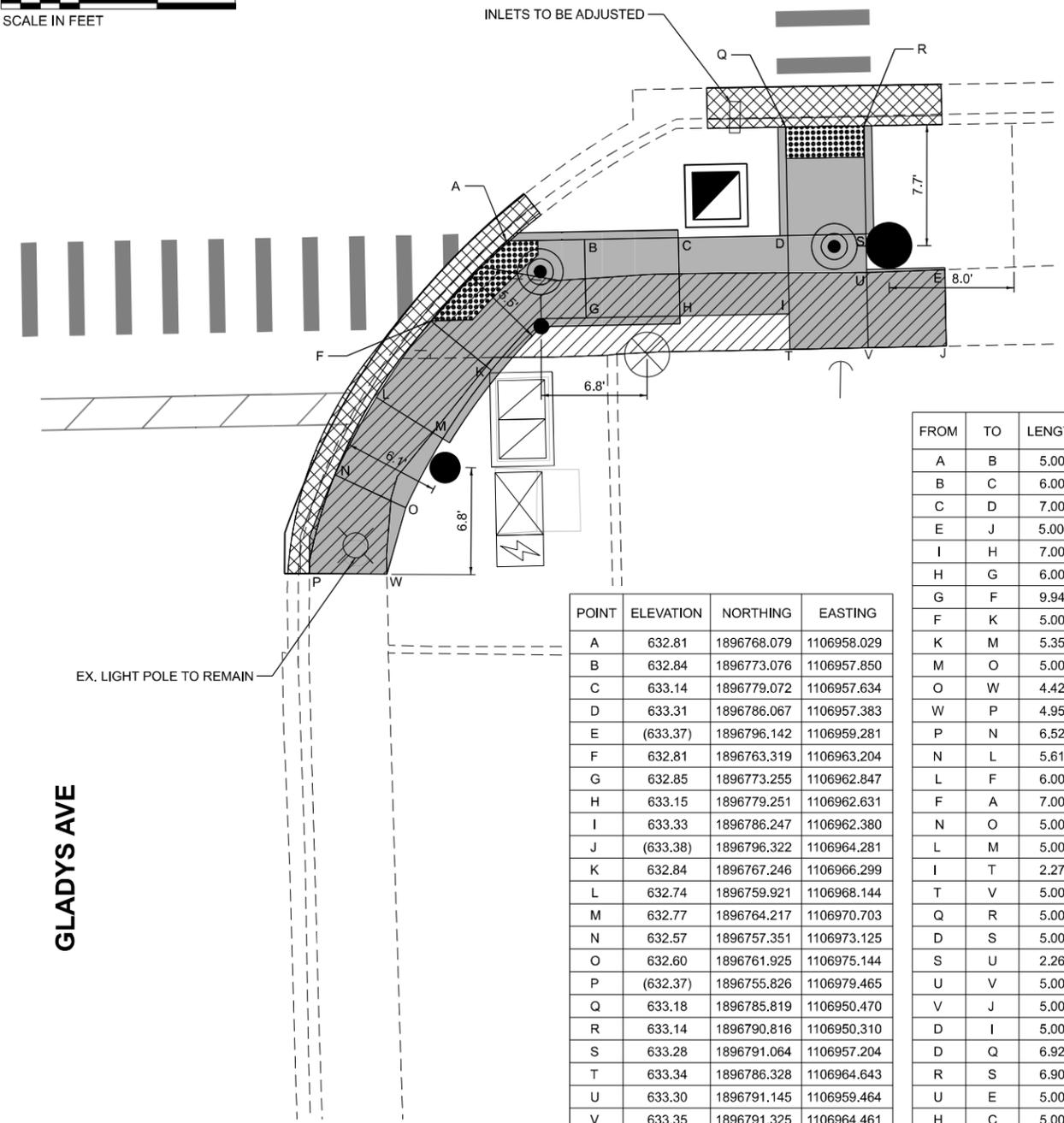
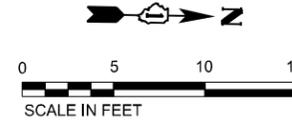
US RTE 12/20/45 (MANNHEIM RD)



POINT	ELEVATION	NORTHING	EASTING
A	633.67	1896683.739	1106959.068
B	633.61	1896693.808	1106960.698
C	633.53	1896698.804	1106960.518
D	633.17	1896704.801	1106960.308
E	633.14	1896710.846	1106960.086
F	633.80	1896683.929	1106964.129
G	633.60	1896693.995	1106965.694
H	633.50	1896698.992	1106965.515
I	633.14	1896704.988	1106965.299
J	633.10	1896709.485	1106965.138
K	633.05	1896714.482	1106964.958
L	633.03	1896715.931	1106964.906
M	632.89	1896709.710	1106971.134
N	632.84	1896714.707	1106970.954
O	632.87	1896709.898	1106976.130
P	632.80	1896714.894	1106975.951

FROM	TO	LENGTH	SLOPE
A	B	10.20'	-0.62%
B	C	5.00'	-1.50%
C	D	6.00'	-6.00%
D	E	6.05'	-0.50%
A	F	5.00'	2.60%
F	G	10.19'	-1.95%
G	H	5.00'	-1.75%
H	I	6.00'	-6.00%
I	J	4.52'	-1.00%
J	K	5.00'	-1.00%
K	L	1.45'	-1.00%
B	G	5.00'	-0.11%
C	H	5.00'	-0.71%
D	I	5.00'	-0.71%
J	M	6.00'	-3.50%
M	O	5.00'	-0.32%
K	N	6.00'	-3.50%
N	P	5.00'	-0.72%
M	N	5.00'	-1.00%
O	P	5.00'	-1.40%

US RTE 12/20/45 (MANNHEIM RD)



POINT	ELEVATION	NORTHING	EASTING
A	632.81	1896768.079	1106958.029
B	632.84	1896773.076	1106957.850
C	633.14	1896779.072	1106957.634
D	633.31	1896786.067	1106957.383
E	(633.37)	1896796.142	1106959.281
F	632.81	1896763.319	1106963.204
G	632.85	1896773.255	1106962.847
H	633.15	1896779.251	1106962.631
I	633.33	1896786.247	1106962.380
J	(633.38)	1896796.322	1106964.281
K	632.84	1896767.246	1106966.299
L	632.74	1896759.921	1106968.144
M	632.77	1896764.217	1106970.703
N	632.57	1896757.351	1106973.125
O	632.80	1896761.925	1106975.144
P	(632.37)	1896755.826	1106979.465
Q	633.18	1896785.819	1106950.470
R	633.14	1896790.816	1106950.310
S	633.28	1896791.064	1106957.204
T	633.34	1896786.328	1106964.643
U	633.30	1896791.145	1106959.464
V	633.35	1896791.325	1106964.461
W	(632.58)	1896760.775	1106979.413

FROM	TO	LENGTH	SLOPE
A	B	5.00'	0.50%
B	C	6.00'	5.00%
C	D	7.00'	2.41%
E	J	5.00'	0.28%
I	H	7.00'	-2.55%
H	G	6.00'	-5.00%
G	F	9.94'	-0.50%
F	K	5.00'	0.50%
K	M	5.35'	-1.28%
M	O	5.00'	-3.40%
O	W	4.42'	-0.41%
W	P	4.95'	-4.24%
P	N	6.52'	3.12%
N	L	5.61'	3.03%
L	F	6.00'	1.14%
F	A	7.00'	0.00%
N	O	5.00'	0.50%
L	M	5.00'	0.50%
I	T	2.27'	0.50%
T	V	5.00'	0.23%
Q	R	5.00'	-0.78%
D	S	5.00'	-0.50%
S	U	2.26'	1.00%
U	V	5.00'	1.00%
V	J	5.00'	0.58%
D	I	5.00'	0.50%
D	Q	6.92'	-1.79%
R	S	6.90'	2.00%
U	E	5.00'	1.30%
H	C	5.00'	-0.31%
G	B	5.00'	-0.31%

LEGEND

XX.XX' EXISTING LENGTH

— PROPOSED SIDE CURB

() EXISTING ELEVATION / SLOPE

■ PROPOSED SIDEWALK

▣ DETECTABLE WARNINGS

▨ SIDEWALK REMOVAL
REPLACE W/ TOPSOIL & SOD
(WHERE APPLICABLE)

▩ COMBINATION CURB
AND GUTTER REMOVAL
AND REPLACEMENT
GREATER THAN 10 FT.

LOCATION:
SOUTHEAST CORNER @ US 12/20/45 MANNHEIM RD & GLADYS AVE

LOCATION:
NORTHEAST CORNER @ US 12/20/45 MANNHEIM RD & GLADYS AVE

TS 78
ECON 103

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNAL PLACEMENT AND CURB RAMP DETAILS
US RTE 12/20/45 (MANNHEIM RD) AND GLADYS AVE - NE & SE

SCALE: 1"=5' SHEET 5 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	52
CONTRACT NO. 62W61				

ILLINOIS FED.AID PROJECT



USER NAME = Dwlklorzak
PLOT SCALE = 40,000' / 1" / 1"
PLOT DATE = 12/24/2025

DESIGNED - ZH
DRAWN - RG
CHECKED - DW
DATE - 12/20/2024

REVISED - 1/24/25
REVISED -
REVISED -
REVISED -

MODEL: US 12/20/45 Mannheim Rd and Gladys Ave - NE & SE
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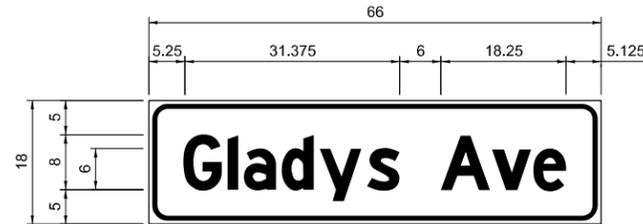
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SUPPLEMENTAL WATERING	UNIT	2
EARTH EXCAVATION	CU YD	15
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	72
SODDING, SALT TOLERANT	SQ YD	72
BITUMINOUS MATERIALS (TACK COAT)	POUND	15
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	3.7
PROTECTIVE COAT	SQ YD	91
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	591
DETECTABLE WARNINGS	SQ FT	48
HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	33
SIDEWALK REMOVAL	SQ FT	440
INLETS TO BE ADJUSTED	EACH	1
SIGN PANEL - TYPE 1	SQ FT	46.5
SIGN PANEL - TYPE 2	SQ FT	37.5
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	252
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	69
PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	197
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	829
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	151
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	413
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	840
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1480
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3730
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	2215
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	215
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	865
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	167
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	610
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	75
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	20
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

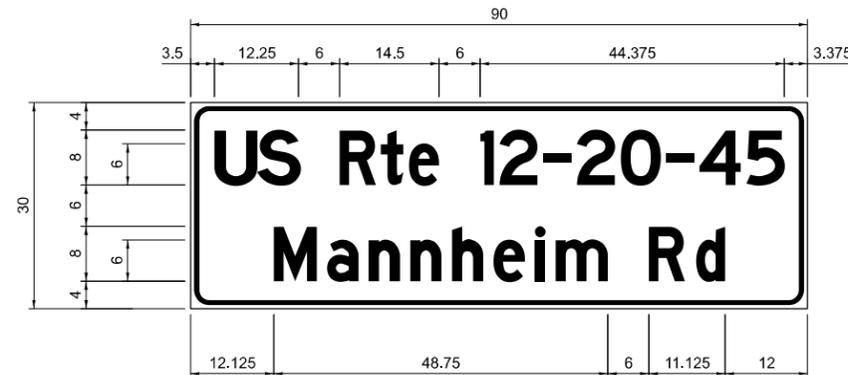
* - 100% COST TO THE BELLWOD FIRE DEPARTMENT

SIGN PANEL DETAIL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	8.25	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	18.75	2	ZZ	2

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

**TS 78
ECON 103**

MODEL: TS 78
FILE NAME: X:\p\jobs\2023\2822\1770\DOT_PTB_202404_Vir_TSU20233_Span_Wire_MastCADD_Draft\1626161\Sheet\01626161-1-1.dwg



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PLOT SCALE = 40,000' = 1"	DRAWN - RG	REVISED -
PLOT DATE = 12/23/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

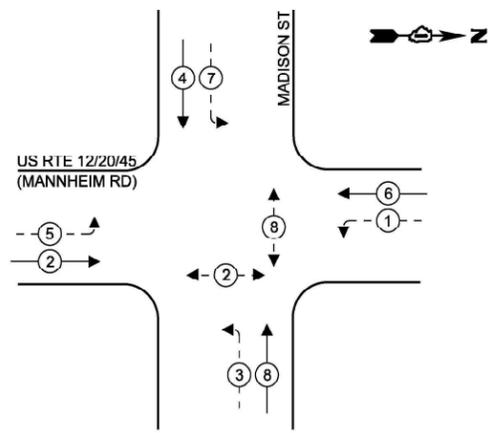
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 12/20/45 (MANNHEIM RD) AND GLADYS AVE**

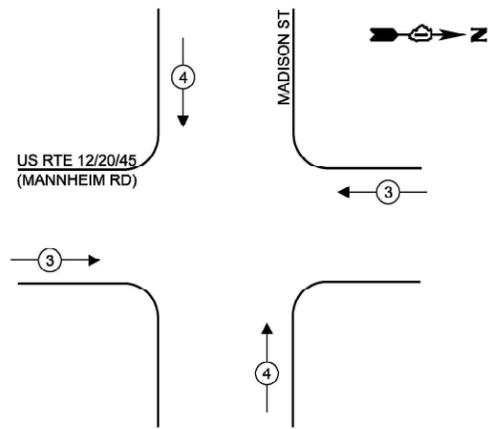
SCALE: SHEET 7 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	54
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62W61	

EXISTING CONTROLLER SEQUENCE

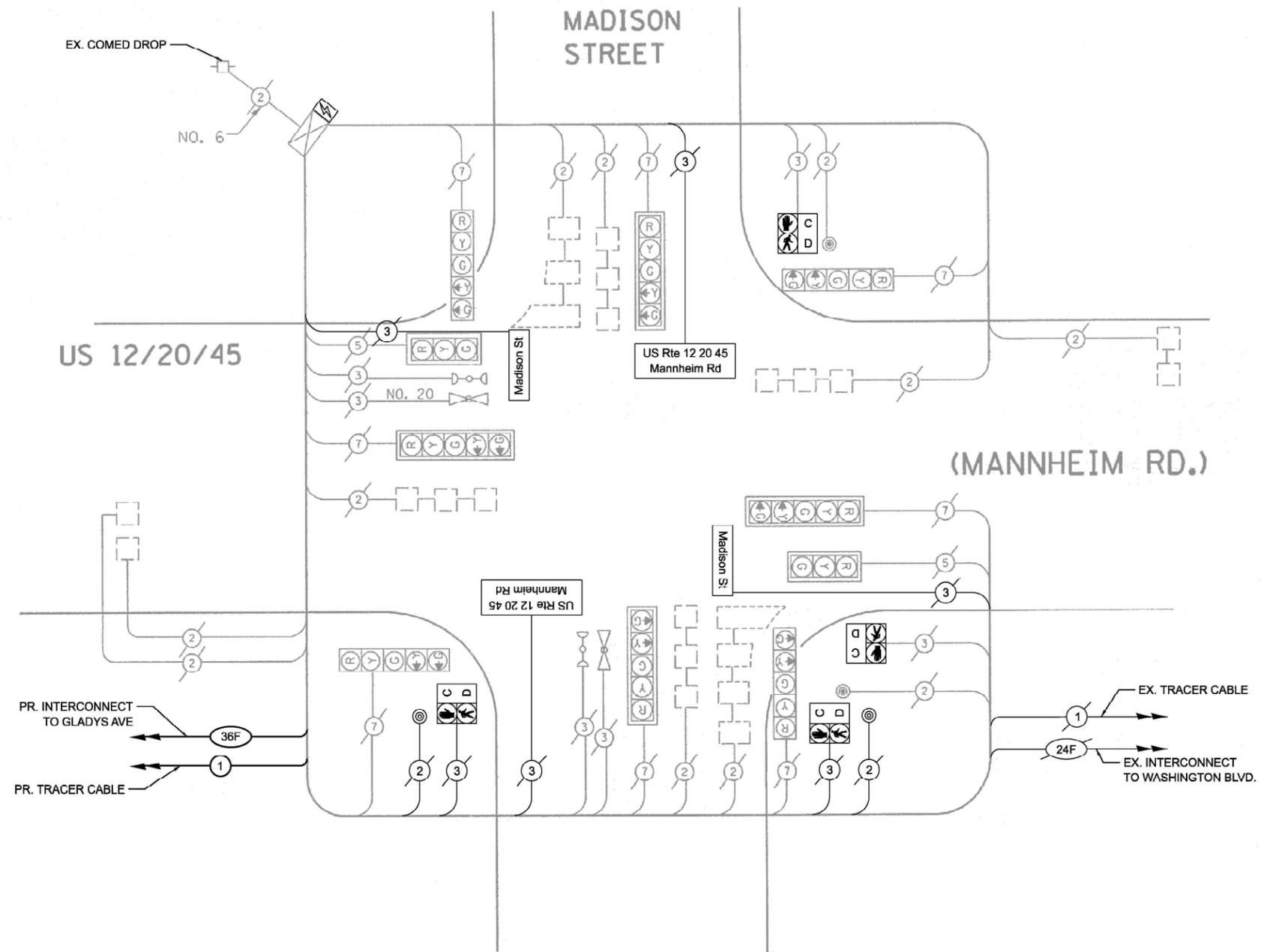
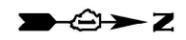


EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

- ◀ (⊛) PROTECTED PHASE
- ◀ (⊙) PROTECTED/PERMITTED PHASE
- ◀ (⊚) PEDESTRIAN PHASE
- ◀ (⊛) OL OVERLAP



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	FACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	2	11	22
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
PTZ CAMERA	-	75	-
TOTAL UPS SIZING			361
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	4	120	480
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1446

ENERGY COSTS TO:
VILLAGE OF BELLWOOD
3200 WASHINGTON BLVD,
BELLWOOD, IL 60104
ENERGY SUPPLY:
CONTACT: ERICKA IRBY
PHONE: (779)-231-0633
COMPANY: COMED MAYWOOD REGION
ACCOUNT NUMBER:
METER NUMBER:

MODEL: TS_1080_ECON103_Mannheim Rd and Madison St
FILE NAME: X:\Projects\2023\2023-940-N.TS\Drawings\TS1080_ECON103_Sheet9.dwg



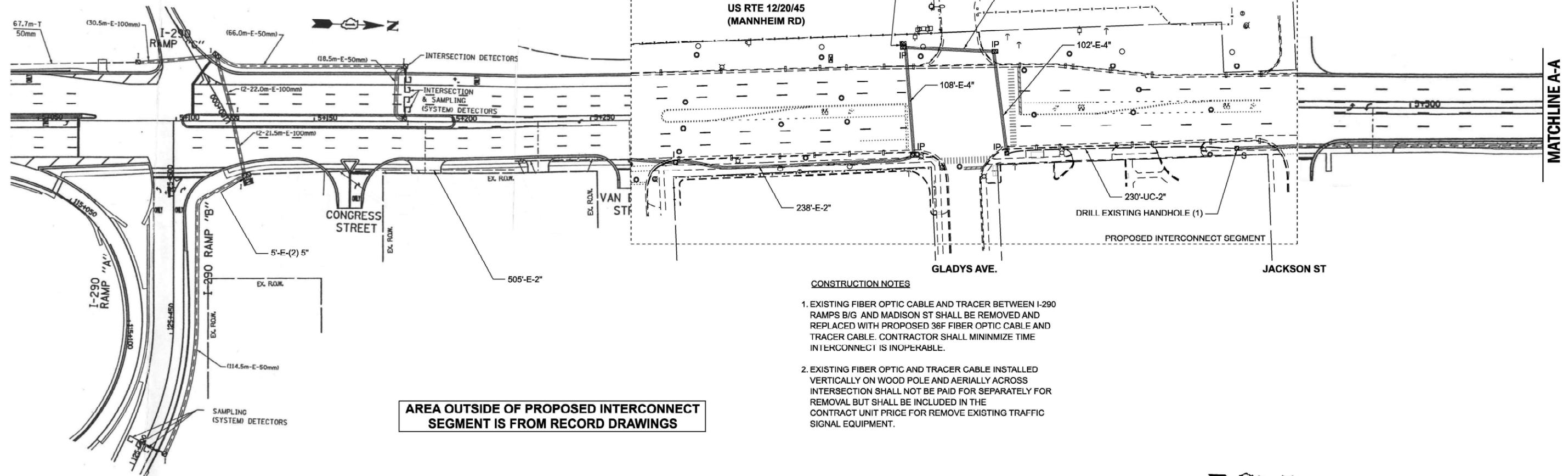
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PLOT DATE = 12/23/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
US RTE 12/20/45 (MANNHEIM RD) AND MADISON ST
SCALE: SHEET 9 OF 11 SHEETS STA. TO STA.

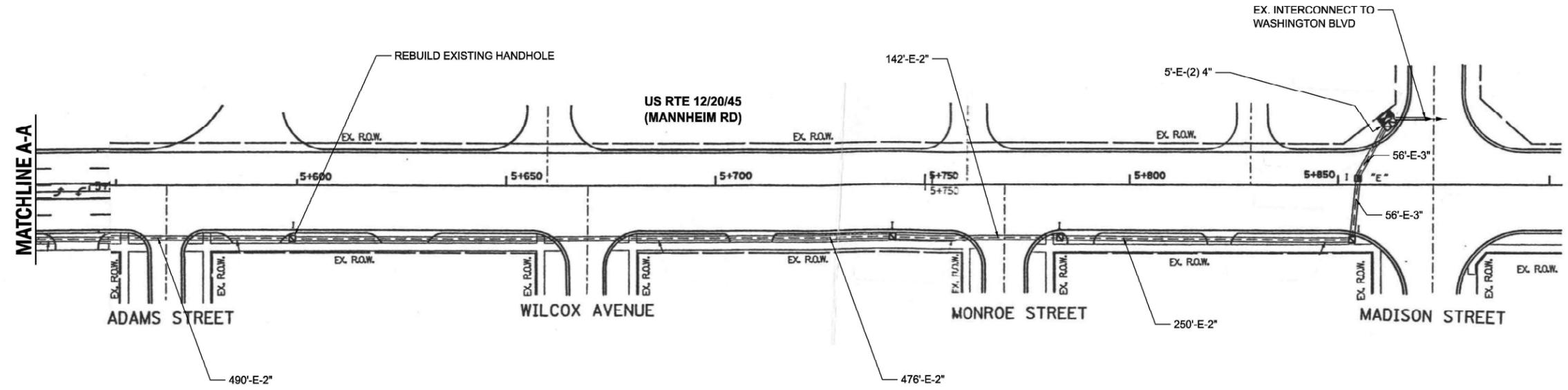
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	56
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62W61	

TS 1080
ECON 103



AREA OUTSIDE OF PROPOSED INTERCONNECT SEGMENT IS FROM RECORD DRAWINGS

- CONSTRUCTION NOTES**
- EXISTING FIBER OPTIC CABLE AND TRACER BETWEEN I-290 RAMP B/G AND MADISON ST SHALL BE REMOVED AND REPLACED WITH PROPOSED 36F FIBER OPTIC CABLE AND TRACER CABLE. CONTRACTOR SHALL MINIMIZE TIME INTERCONNECT IS INOPERABLE.
 - EXISTING FIBER OPTIC AND TRACER CABLE INSTALLED VERTICALLY ON WOOD POLE AND AERIALLY ACROSS INTERSECTION SHALL NOT BE PAID FOR SEPARATELY FOR REMOVAL BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.



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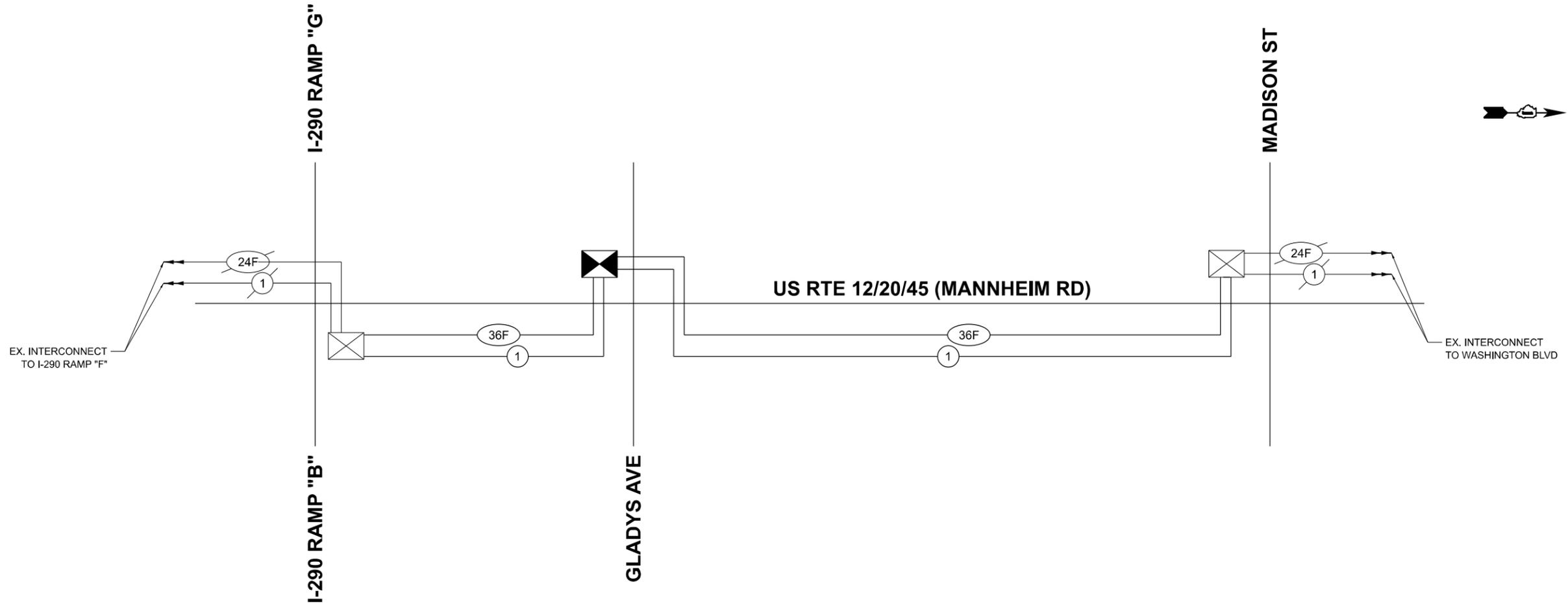
USER NAME = Dwlkiorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
US RTE 1220/45 (MANNHEIM RD) - I-290 RAMP B/G TO MADISON ST
 SCALE: SHEET 10 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	57
			CONTRACT NO. 62W61	
ILLINOIS FED. AID PROJECT				

ECON 103



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	230
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2914
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4000
REBUILD EXISTING HANDHOLE	EACH	1
ROD AND CLEAN EXISTING CONDUIT	FOOT	1613
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2947

MODEL: Interconnect.sch; FILE NAME: X:\projects\2023\20230222\17700\DOT\PTB_202404_V01\TSU20233_Span_Wire_Mat\CADD\Drawn\162N161\Sheet\162N161-162N161-Interconnect_schematic-Mannheim_Rd.dgn



USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

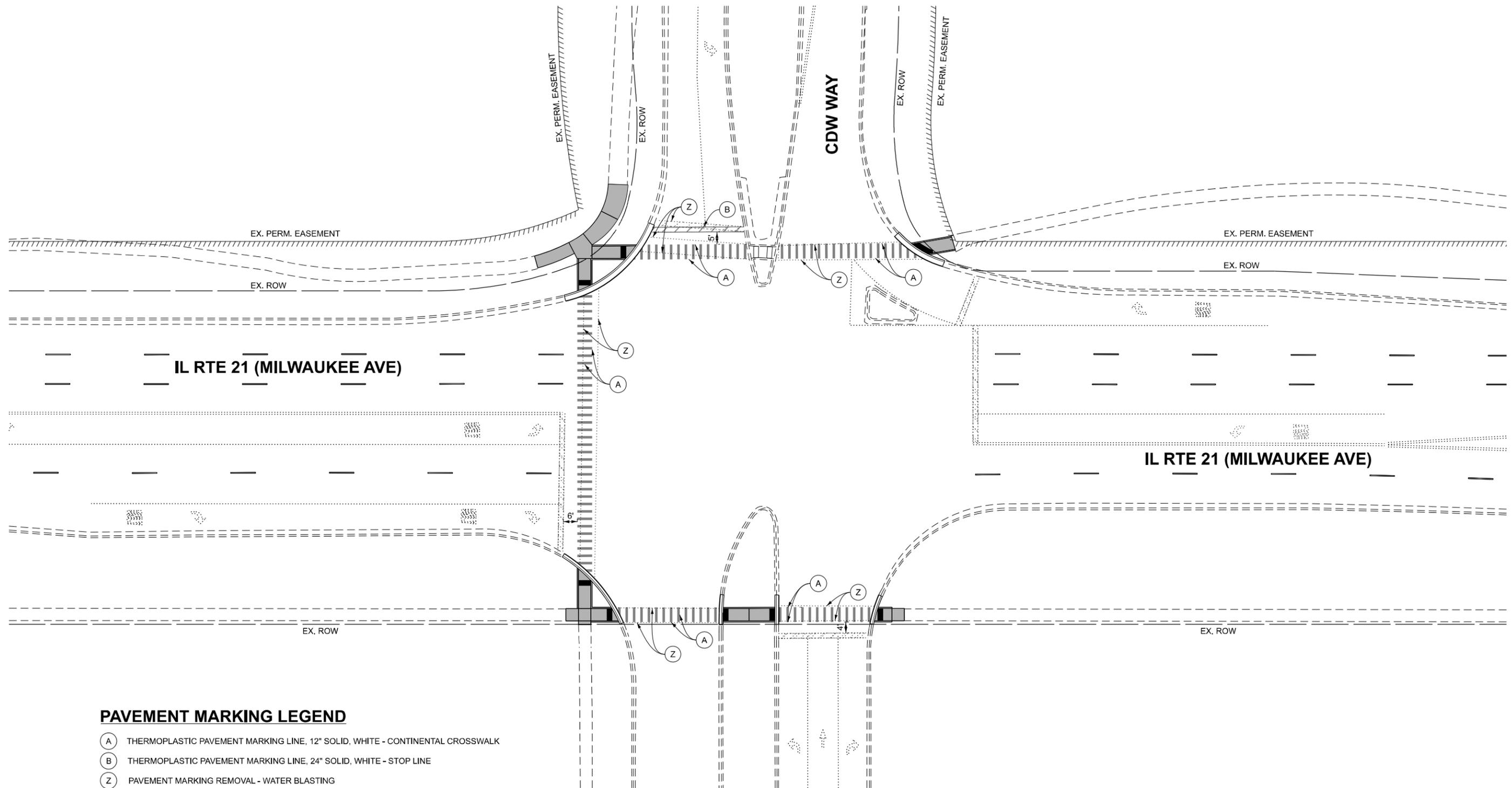
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
US RTE 12-20-45 (MANNHEIM RD) - I-290 RAMP B/G TO MADISON ST**

SCALE: SHEET 11 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	58
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62W61	

ECON 103



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID, WHITE - CONTINENTAL CROSSWALK
- (B) THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID, WHITE - STOP LINE
- (Z) PAVEMENT MARKING REMOVAL - WATER BLASTING

MODEL: IL_01.dwg CDW Way-Crosswalk.dwg
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USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
IL RTE 21 (MILWAUKEE AVE) AND CDW WAY

SCALE: 1"=20' SHEET 1 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	59
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

TS 22052
LCDOT PASSAGE
FORMER ECON 160

REMOVAL AND RELOCATION NOTES:

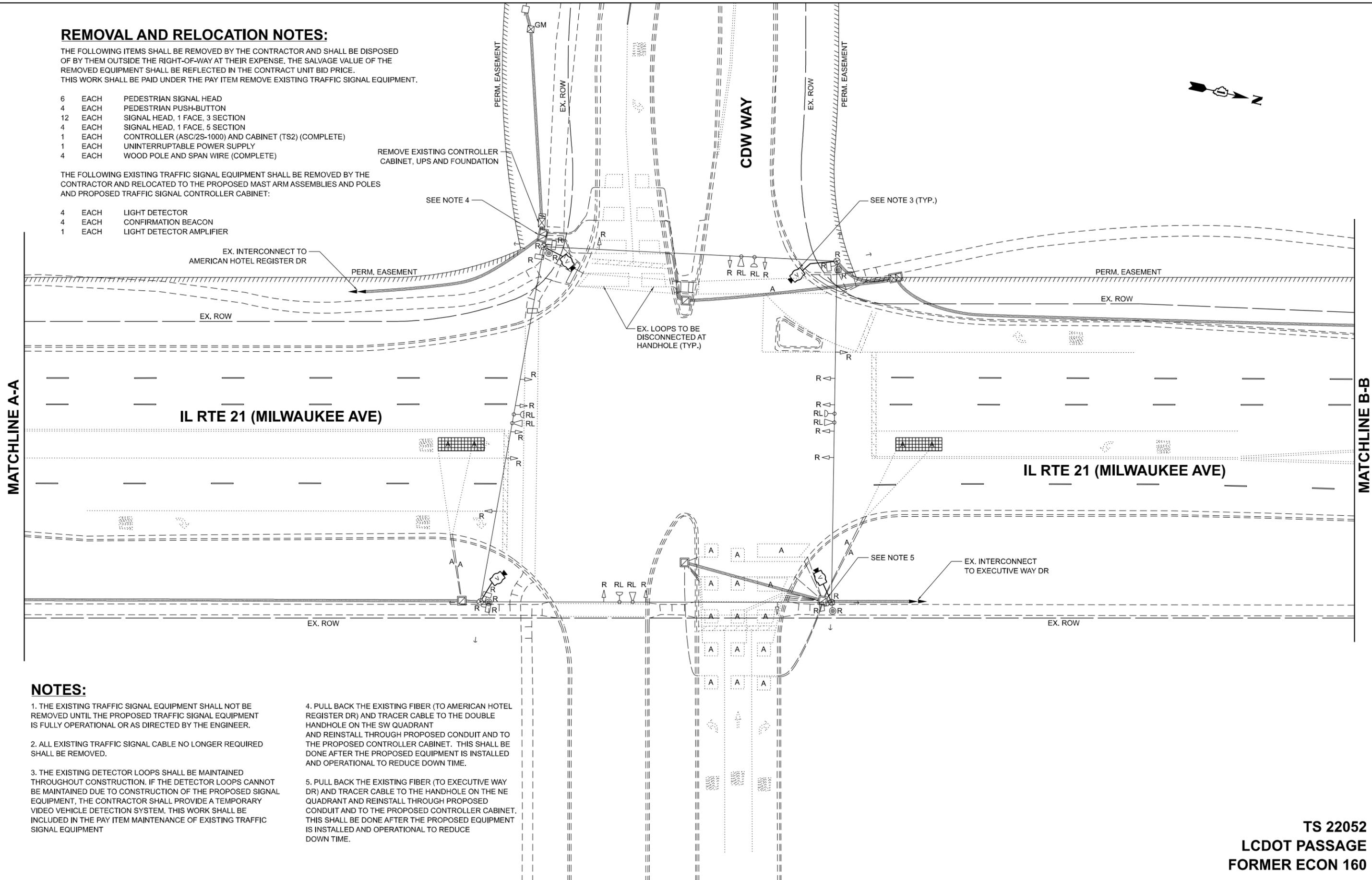
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE. THIS WORK SHALL BE PAID UNDER THE PAY ITEM REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

- 6 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 12 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 4 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 1 EACH CONTROLLER (ASC/2S-1000) AND CABINET (TS2) (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY
- 4 EACH WOOD POLE AND SPAN WIRE (COMPLETE)

REMOVE EXISTING CONTROLLER CABINET, UPS AND FOUNDATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES AND POLES AND PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET:

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



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. THE EXISTING DETECTOR LOOPS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. IF THE DETECTOR LOOPS CANNOT BE MAINTAINED DUE TO CONSTRUCTION OF THE PROPOSED SIGNAL EQUIPMENT, THE CONTRACTOR SHALL PROVIDE A TEMPORARY VIDEO VEHICLE DETECTION SYSTEM. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
4. PULL BACK THE EXISTING FIBER (TO AMERICAN HOTEL REGISTER DR) AND TRACER CABLE TO THE DOUBLE HANDHOLE ON THE SW QUADRANT AND REINSTALL THROUGH PROPOSED CONDUIT AND TO THE PROPOSED CONTROLLER CABINET. THIS SHALL BE DONE AFTER THE PROPOSED EQUIPMENT IS INSTALLED AND OPERATIONAL TO REDUCE DOWN TIME.
5. PULL BACK THE EXISTING FIBER (TO EXECUTIVE WAY DR) AND TRACER CABLE TO THE HANDHOLE ON THE NE QUADRANT AND REINSTALL THROUGH PROPOSED CONDUIT AND TO THE PROPOSED CONTROLLER CABINET. THIS SHALL BE DONE AFTER THE PROPOSED EQUIPMENT IS INSTALLED AND OPERATIONAL TO REDUCE DOWN TIME.

MODEL: IL_01_CDW (New Contract) ID: FILE NAME: X:\projects\2023\22052\17070\DOT_PTB_202404_V01_TS2205233_Span_Wire_Mat\CADD Data\ID162W61\Sheets\0162W61-traffic-signal.dgn



USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN AND REMOVAL PLAN (SHEET 1 OF 2)
IL RTE 21 (MILWAUKEE AVE) AND CDW WAY

SCALE: 1"=20' SHEET 2 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	60
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

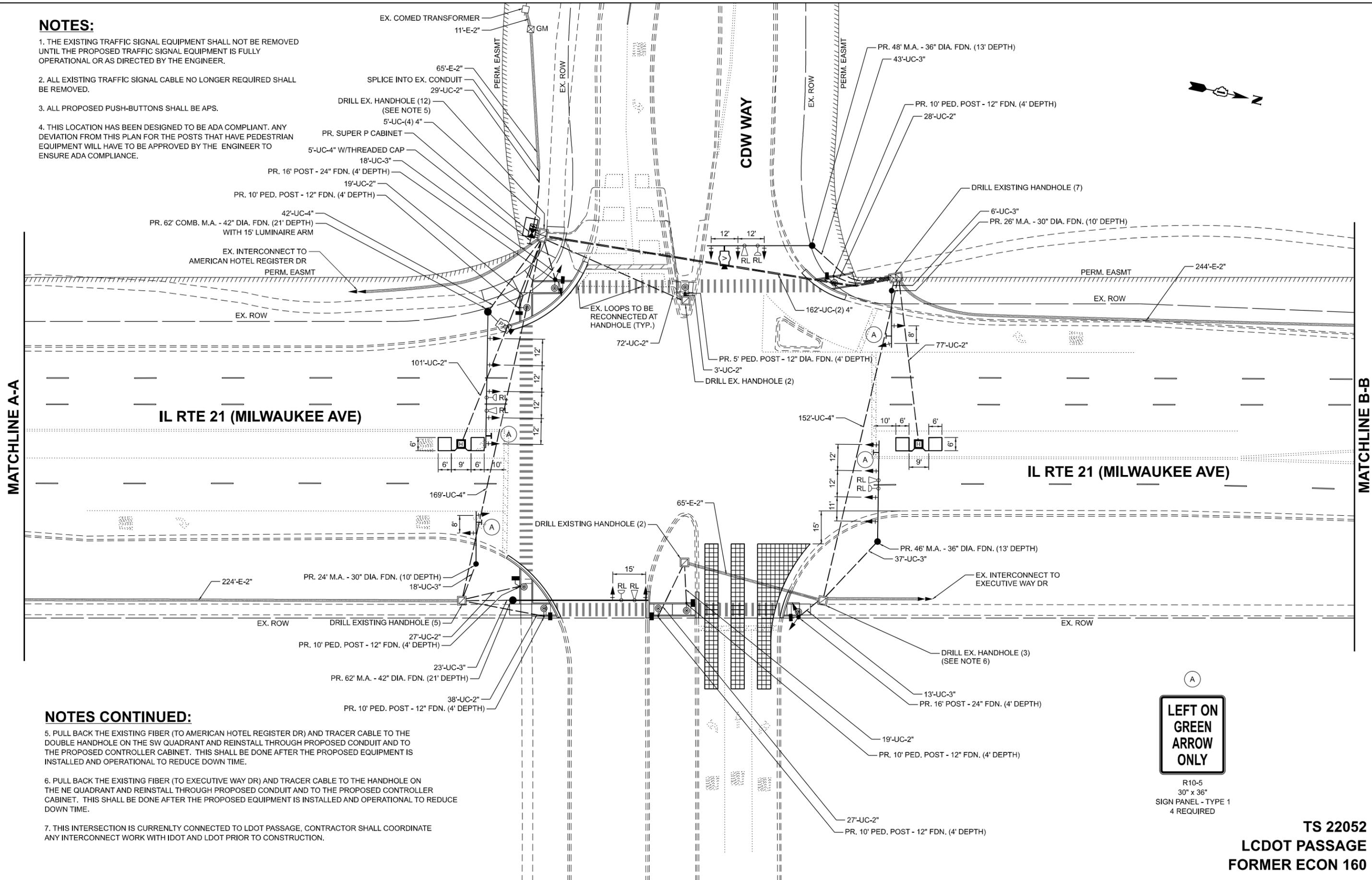
TS 22052
LCDOT PASSAGE
FORMER ECON 160

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
4. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.

NOTES CONTINUED:

5. PULL BACK THE EXISTING FIBER (TO AMERICAN HOTEL REGISTER DR) AND TRACER CABLE TO THE DOUBLE HANDHOLE ON THE SW QUADRANT AND REINSTALL THROUGH PROPOSED CONDUIT AND TO THE PROPOSED CONTROLLER CABINET. THIS SHALL BE DONE AFTER THE PROPOSED EQUIPMENT IS INSTALLED AND OPERATIONAL TO REDUCE DOWN TIME.
6. PULL BACK THE EXISTING FIBER (TO EXECUTIVE WAY DR) AND TRACER CABLE TO THE HANDHOLE ON THE NE QUADRANT AND REINSTALL THROUGH PROPOSED CONDUIT AND TO THE PROPOSED CONTROLLER CABINET. THIS SHALL BE DONE AFTER THE PROPOSED EQUIPMENT IS INSTALLED AND OPERATIONAL TO REDUCE DOWN TIME.
7. THIS INTERSECTION IS CURRENTLY CONNECTED TO LDOT PASSAGE, CONTRACTOR SHALL COORDINATE ANY INTERCONNECT WORK WITH IDOT AND LDOT PRIOR TO CONSTRUCTION.



MODEL: IL 21 CDW / New Controller.dwg
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USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)
IL RTE 21 (MILWAUKEE AVE) AND CDW WAY
 SCALE: 1"=20' SHEET 4 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N,TS	VAR	74	62
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

TS 22052
LCDOT PASSAGE
FORMER ECON 160

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USER NAME = Dwlklorzak	DESIGNED - ZH	REVISED -
DRAWN - RG	REVISED -	
PLOT SCALE = 40,000' = 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 12/23/2024	DATE - 12/20/2024	REVISED -

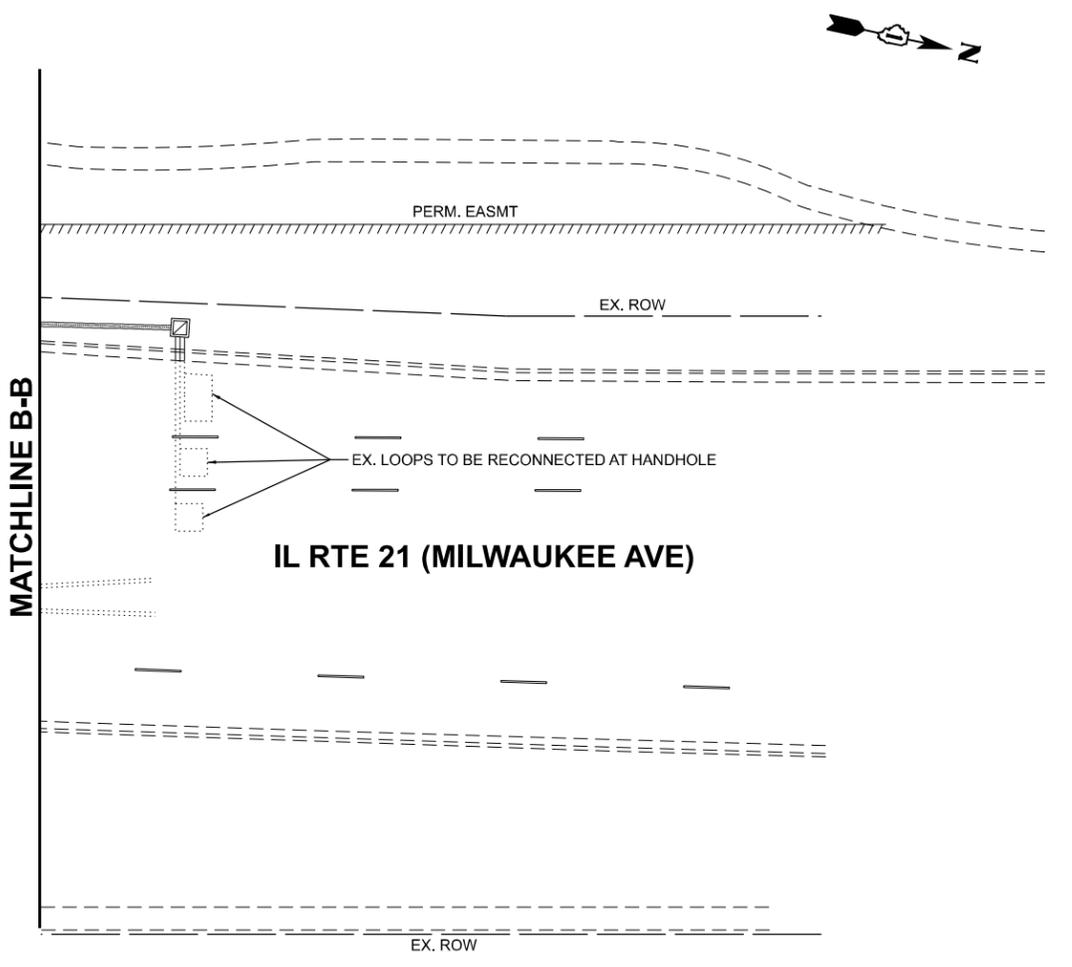
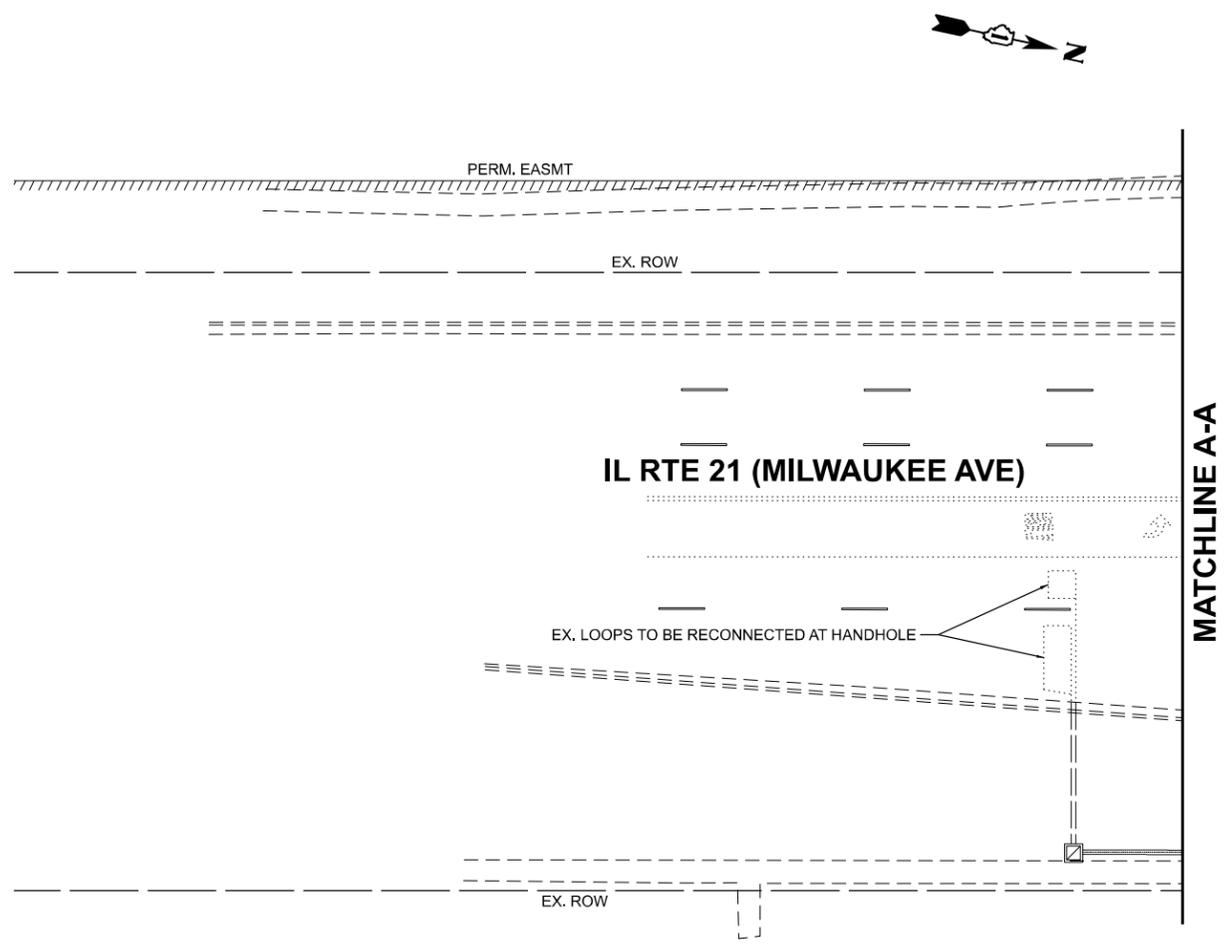
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)
IL RTE 21 (MILWAUKEE AVE) AND CDW WAY

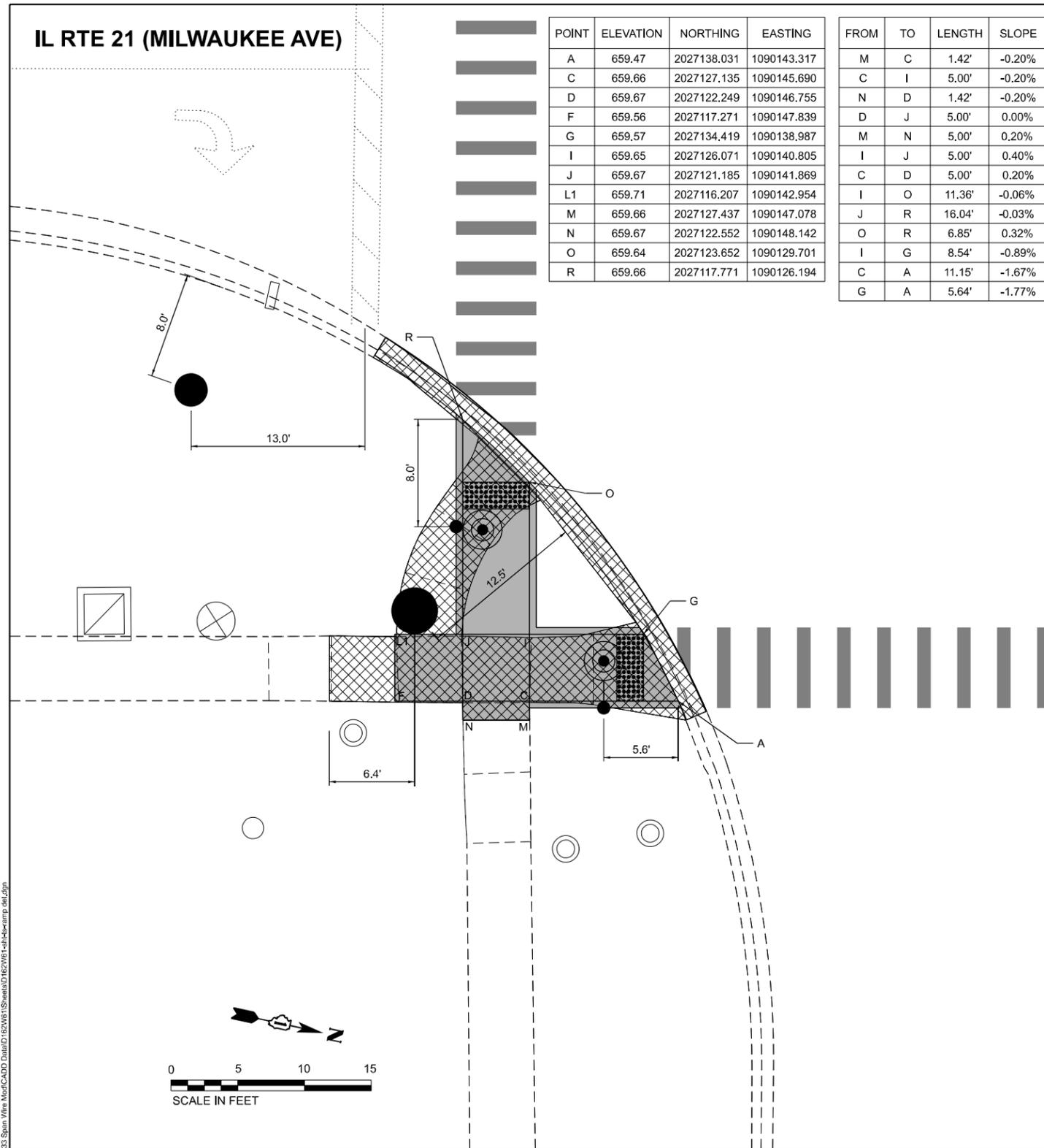
SCALE: 1"=20' SHEET 5 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	63
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

TS 22052
LCDOT PASSAGE
FORMER ECON 160



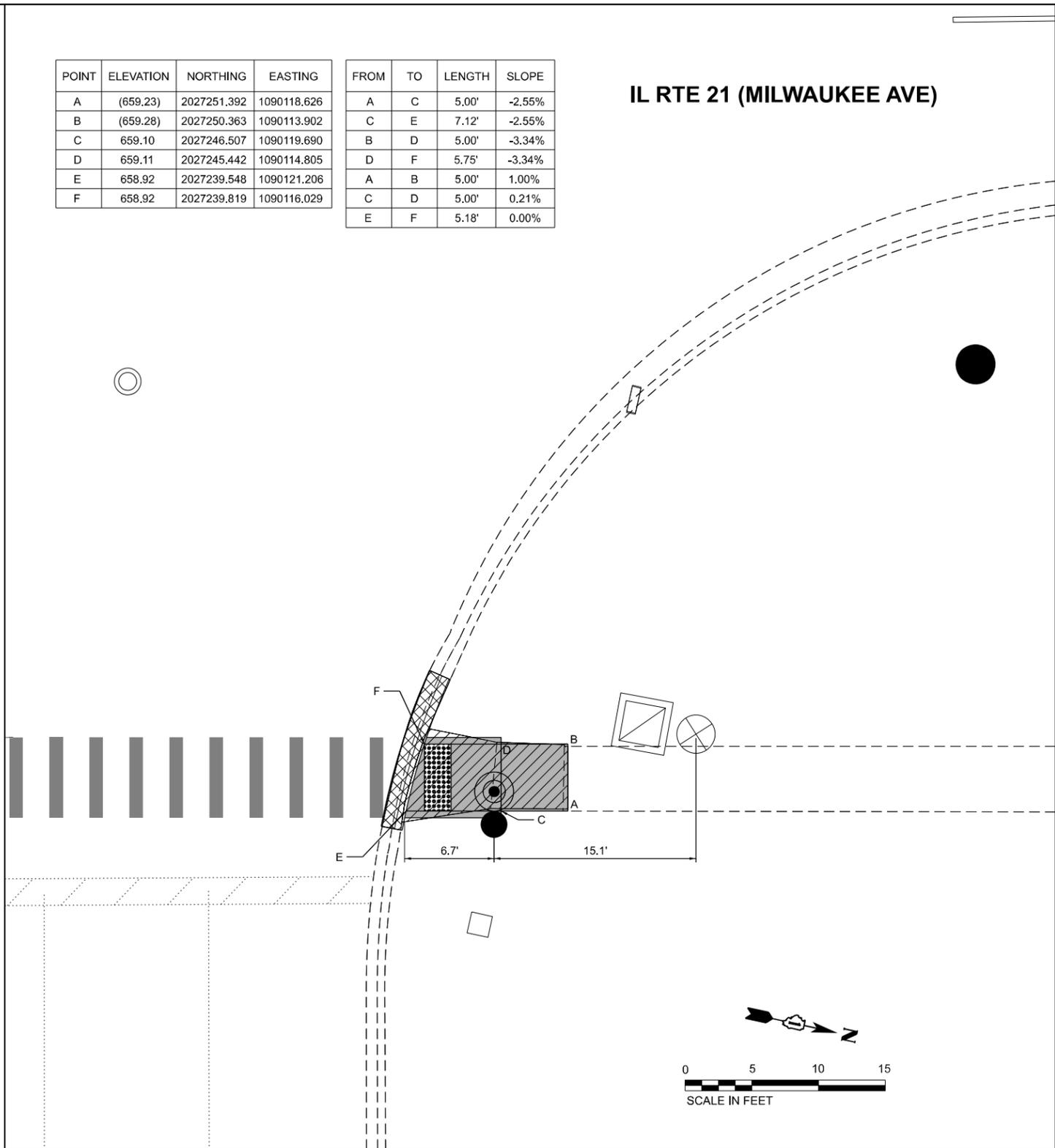
IL RTE 21 (MILWAUKEE AVE)



POINT	ELEVATION	NORTHING	EASTING
A	659.47	2027138.031	1090143.317
C	659.66	2027127.135	1090145.690
D	659.67	2027122.249	1090146.755
F	659.56	2027117.271	1090147.839
G	659.57	2027134.419	1090138.987
I	659.65	2027126.071	1090140.805
J	659.67	2027121.185	1090141.869
L1	659.71	2027116.207	1090142.954
M	659.66	2027127.437	1090147.078
N	659.67	2027122.552	1090148.142
O	659.64	2027123.652	1090129.701
R	659.66	2027117.771	1090126.194

FROM	TO	LENGTH	SLOPE
M	C	1.42'	-0.20%
C	I	5.00'	-0.20%
N	D	1.42'	-0.20%
D	J	5.00'	0.00%
M	N	5.00'	0.20%
I	J	5.00'	0.40%
C	D	5.00'	0.20%
I	O	11.36'	-0.06%
J	R	16.04'	-0.03%
O	R	6.85'	0.32%
I	G	8.54'	-0.89%
C	A	11.15'	-1.67%
G	A	5.64'	-1.77%

IL RTE 21 (MILWAUKEE AVE)



POINT	ELEVATION	NORTHING	EASTING
A	(659.23)	2027251.392	1090118.626
B	(659.28)	2027250.363	1090113.902
C	659.10	2027246.507	1090119.690
D	659.11	2027245.442	1090114.805
E	658.92	2027239.548	1090121.206
F	658.92	2027239.819	1090116.029

FROM	TO	LENGTH	SLOPE
A	C	5.00'	-2.55%
C	E	7.12'	-2.55%
B	D	5.00'	-3.34%
D	F	5.75'	-3.34%
A	B	5.00'	1.00%
C	D	5.00'	0.21%
E	F	5.18'	0.00%

LOCATION:
SOUTHEAST CORNER @ IL 21 (MILWAUKEE AVE) AND CDW WAY

- XX.XX' EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION / SLOPE

LEGEND

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/ TOPSOIL & SOD (WHERE APPLICABLE)
- COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FT.

LOCATION:
NORTHEAST CORNER @ IL 21 (MILWAUKEE AVE) AND CDW WAY

TS 22052
LCDOT PASSAGE
FORMER ECON 160

MODEL: IL_01.dwg CDW_NE.dwg
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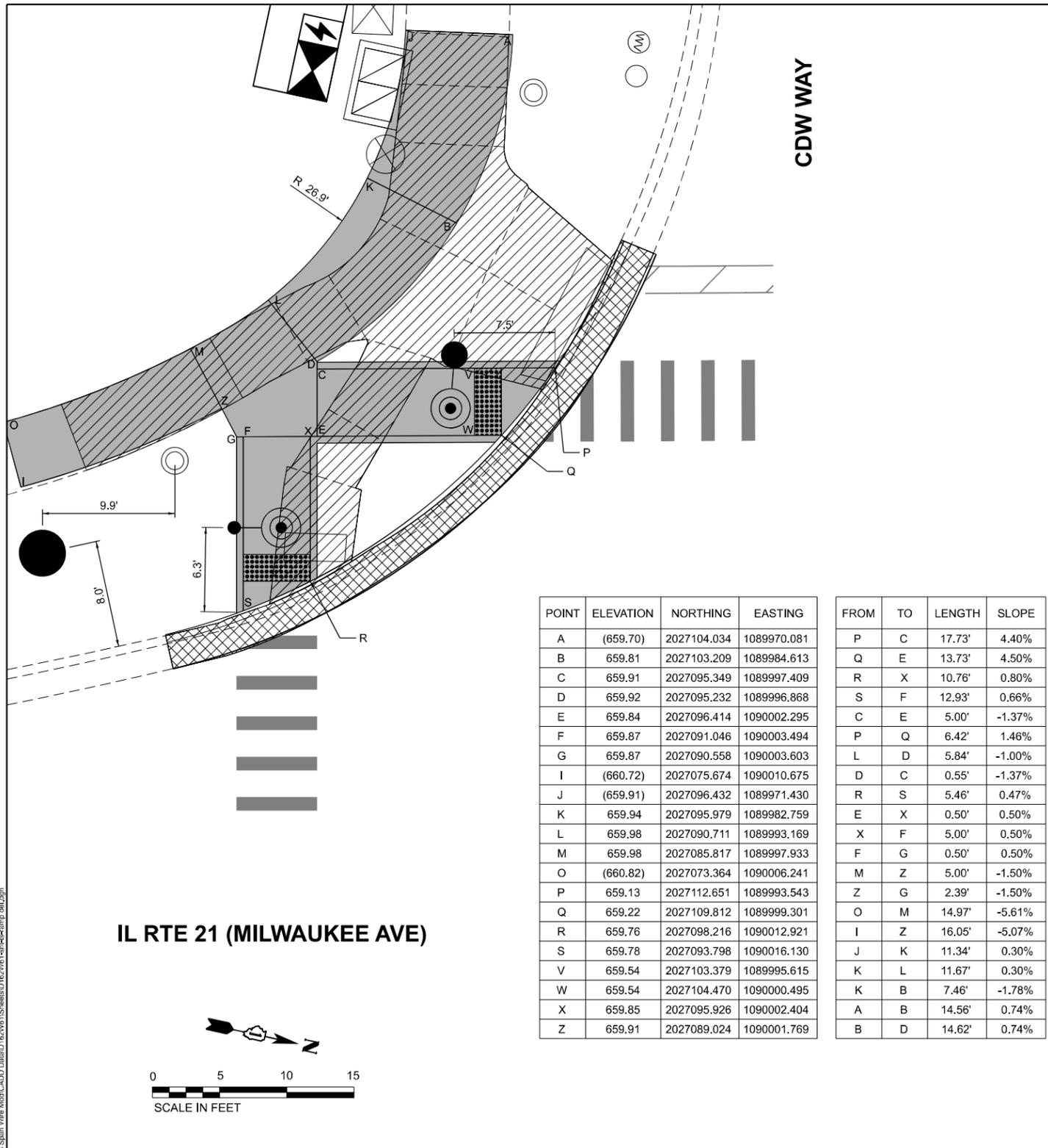
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PLOT DATE = 12/23/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNAL PLACEMENT AND CURB RAMP DETAILS
IL RTE 21 (MILWAUKEE AVE) AND CDW WAY - NE & SE

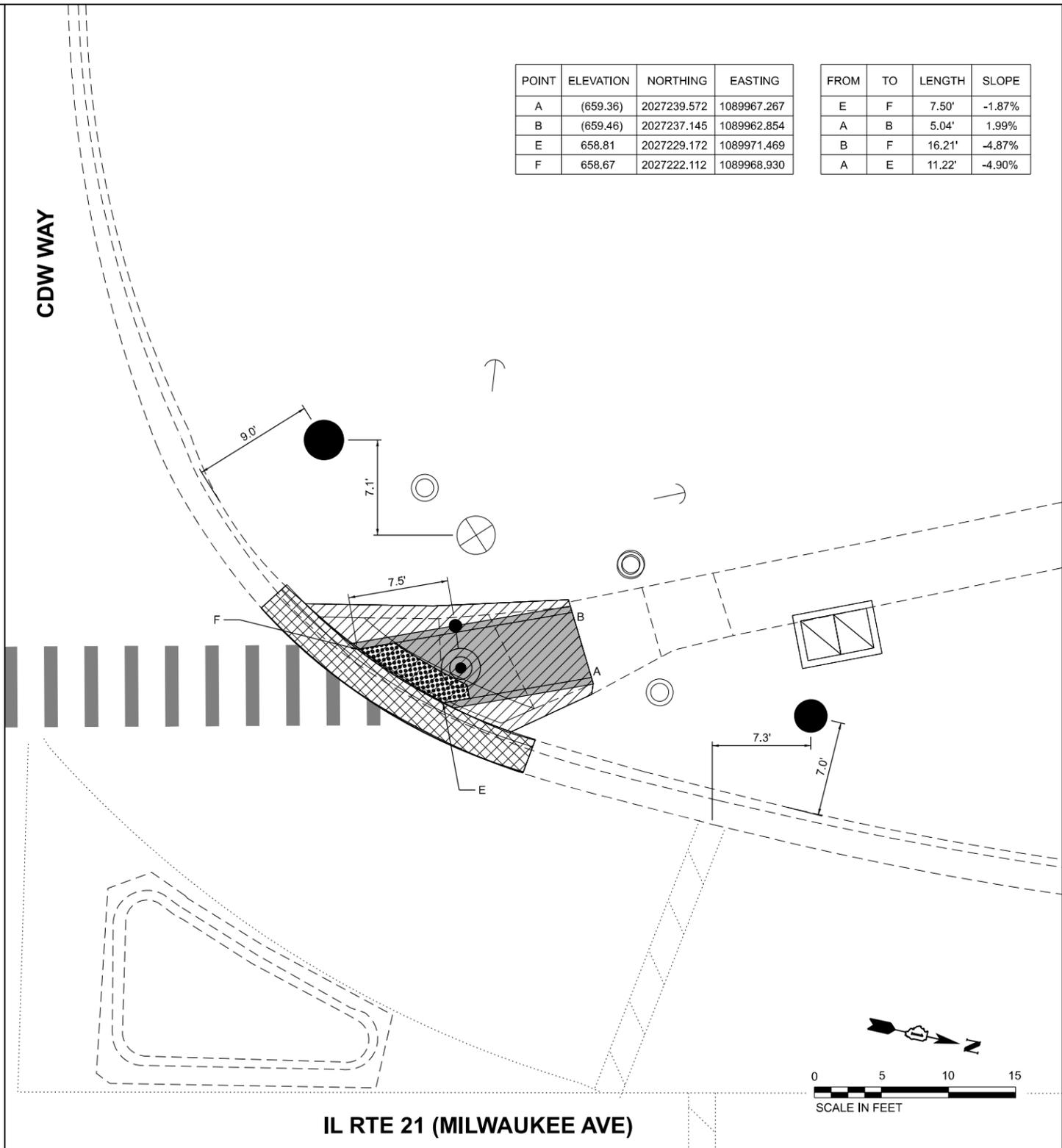
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	64
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

SCALE: 1"=5' SHEET 6 OF 12 SHEETS STA. TO STA.



POINT	ELEVATION	NORTHING	EASTING
A	659.70	2027104.034	1089970.081
B	659.81	2027103.209	1089984.613
C	659.91	2027095.349	1089997.409
D	659.92	2027095.232	1089996.868
E	659.84	2027096.414	1090002.295
F	659.87	2027091.046	1090003.494
G	659.87	2027090.558	1090003.603
I	660.72	2027075.674	1090010.675
J	659.91	2027096.432	1089971.430
K	659.94	2027095.979	1089982.759
L	659.98	2027090.711	1089993.169
M	659.98	2027085.817	1089997.933
O	660.82	2027073.364	1090006.241
P	659.13	2027112.651	1089993.543
Q	659.22	2027109.812	1089999.301
R	659.76	2027098.216	1090012.921
S	659.78	2027093.798	1090016.130
V	659.54	2027103.379	1089995.615
W	659.54	2027104.470	1090000.495
X	659.85	2027095.926	1090002.404
Z	659.91	2027089.024	1090001.769

FROM	TO	LENGTH	SLOPE
P	C	17.73'	4.40%
Q	E	13.73'	4.50%
R	X	10.76'	0.80%
S	F	12.93'	0.66%
C	E	5.00'	-1.37%
P	Q	6.42'	1.46%
L	D	5.84'	-1.00%
D	C	0.55'	-1.37%
R	S	5.46'	0.47%
E	X	0.50'	0.50%
X	F	5.00'	0.50%
F	G	0.50'	0.50%
M	Z	5.00'	-1.50%
Z	G	2.39'	-1.50%
O	M	14.97'	-5.61%
I	Z	16.05'	-5.07%
J	K	11.34'	0.30%
K	L	11.67'	0.30%
K	B	7.46'	-1.78%
A	B	14.56'	0.74%
B	D	14.62'	0.74%



POINT	ELEVATION	NORTHING	EASTING
A	659.36	2027239.572	1089967.267
B	659.46	2027237.145	1089962.854
E	658.81	2027229.172	1089971.469
F	658.67	2027222.112	1089968.930

FROM	TO	LENGTH	SLOPE
E	F	7.50'	-1.87%
A	B	5.04'	1.99%
B	F	16.21'	-4.87%
A	E	11.22'	-4.90%

IL RTE 21 (MILWAUKEE AVE)

IL RTE 21 (MILWAUKEE AVE)

LOCATION:
SOUTHWEST CORNER @ IL 21 (MILWAUKEE AVE) AND CDW WAY

LOCATION:
NORTHWEST CORNER @ IL 21 (MILWAUKEE AVE) AND CDW WAY

- XX.XX' EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION / SLOPE

LEGEND

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/ TOPSOIL & SOD (WHERE APPLICABLE)
- COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FT.

TS 22052
LCDOT PASSAGE
FORMER ECON 160

MODEL: IL_21_mil_cdw_nw.dwg
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PLOT SCALE = 40,000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 12/23/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNAL PLACEMENT AND CURB RAMP DETAILS
IL RTE 21 (MILWAUKEE AVE) AND CDW WAY - NW & SW

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2023-940-N.TS	VAR	74	65
CONTRACT NO. 62W61			ILLINOIS FED. AID PROJECT	

SCALE: 1"=5' SHEET 7 OF 12 SHEETS STA. TO STA.

SCHEDULE OF QUANTITIES

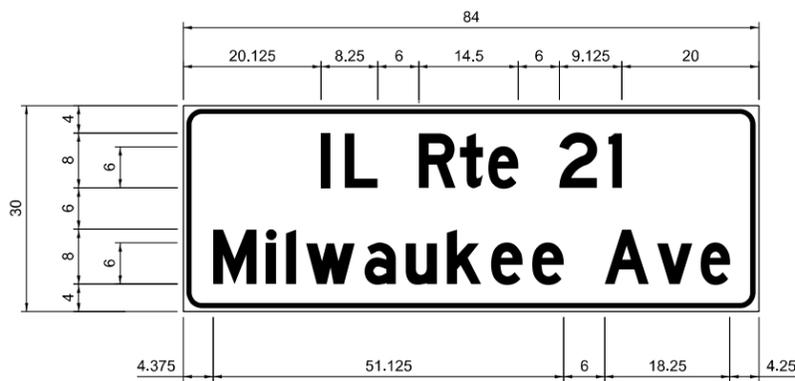
ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SUPPLEMENTAL WATERING	UNIT	3
EARTH EXCAVATION	CU YD	16
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	105
SODDING, SALT TOLERANT	SQ YD	105
BITUMINOUS MATERIALS (TACK COAT)	POUND	28
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	7.1
PROTECTIVE COAT	SQ YD	156
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	972
DETECTABLE WARNINGS	SQ FT	85
HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	63
SIDEWALK REMOVAL	SQ FT	1032
SIGN PANEL - TYPE 1	SQ FT	30
SIGN PANEL - TYPE 2	SQ FT	54.5
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	579
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	37
PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	228
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	440
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	158
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	712
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	6
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2250
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3375
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2970
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2785
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	2740
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	110
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1475
TRAFFIC SIGNAL POST, 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
DRILL EXISTING HANDHOLE	EACH	31
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	7
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	17
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	116
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	470
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1175
OUTDOOR RATED NETWORK CABLE	FOOT	110
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATA LINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	8
SPLICE FIBER IN CABINET	EACH	8
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	6
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	142
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	9
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	28
LED SIGNAL FACE, LENS COVER	EACH	21
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

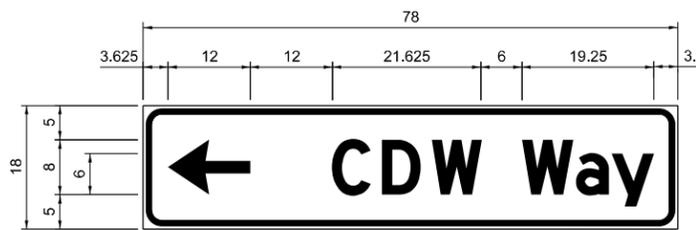
* - 100% COST TO THE VILLAGE OF VERNON HILLS

SIGN PANEL DETAIL - TYPE 2

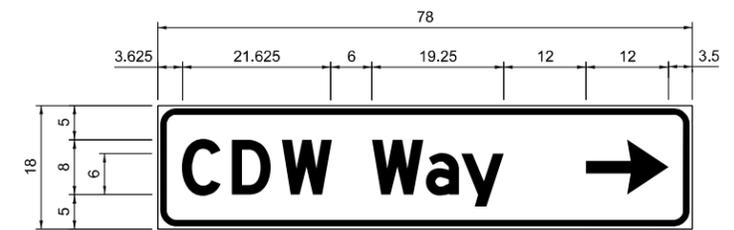
ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	17.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	2	ZZ	1

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

TS 22052
LCDOT PASSAGE
FORMER ECON 160

MODEL: TS 22052
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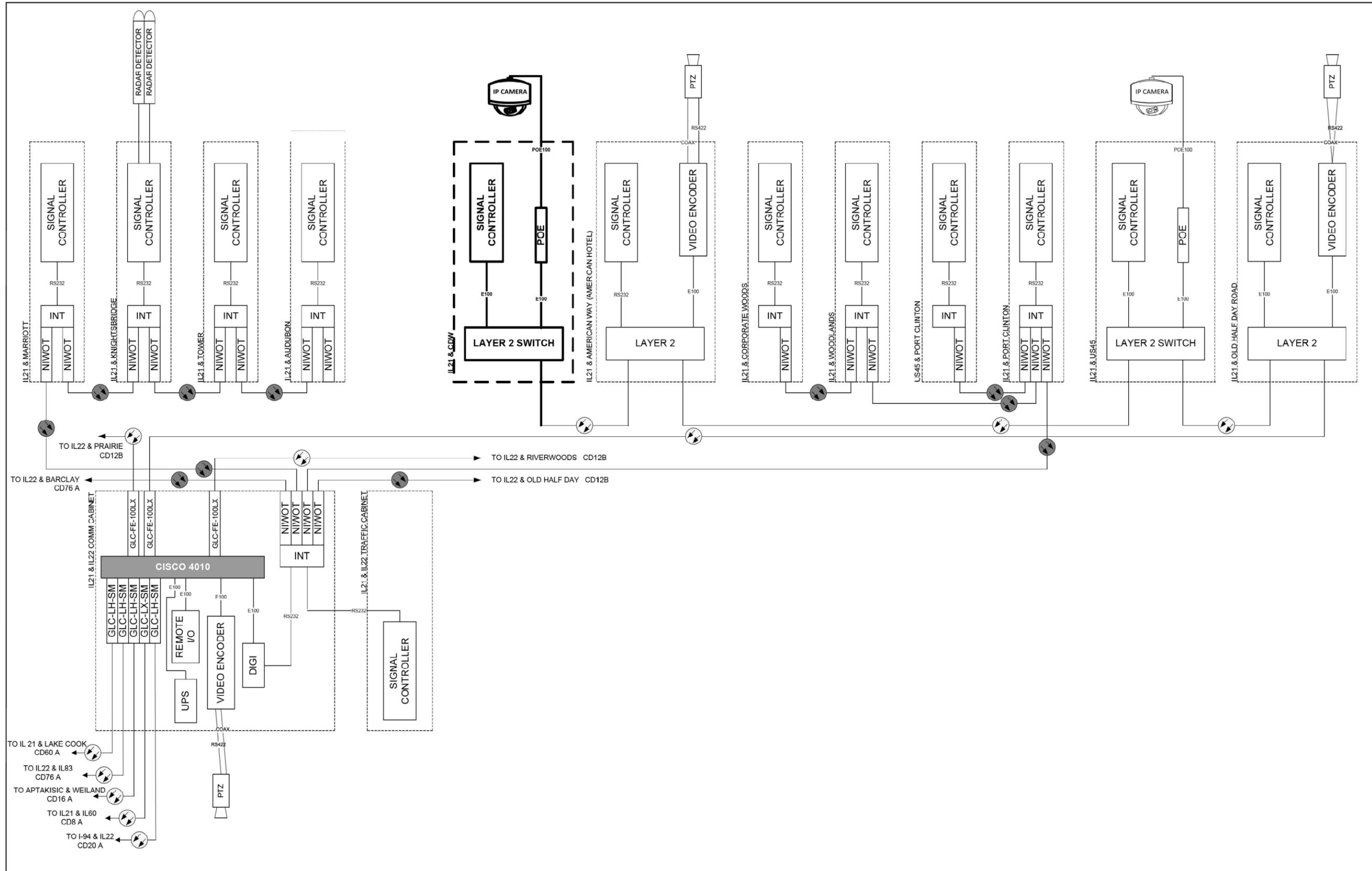
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PLOT SCALE = 40,000' / 1" =	DRAWN - RG	REVISED -
PLOT DATE = 12/20/2024	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 21 (MILWAUKEE AVE) AND CDW WAY

SCALE: SHEET 10 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2023-940-N,TS	VAR	74	68
ILLINOIS			CONTRACT NO. 62W61	
FED. AID PROJECT				



D162U19	DESIGNED - DG	2016.06.22	REVISED - 21/AMERICAN, 21/AUDO	LAKE COUNTY DIVISION OF TRANSPORTATION	12A IL22 / IL21	ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
	DRAWN - DG	2018.10.30	REVISOR - ITS PASSAGE ELEMENTS						12A	
	CHECKED - DG	2024.11.26	REVISED -							
	DATE	2024.12.16	REVISED -							
SCALE N/A										

MODEL: x:\pilot.dwg; 14_ IL 01 and IL 08
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 PROJECT: 2023-940-N.TS
 DATE: 12/20/2024

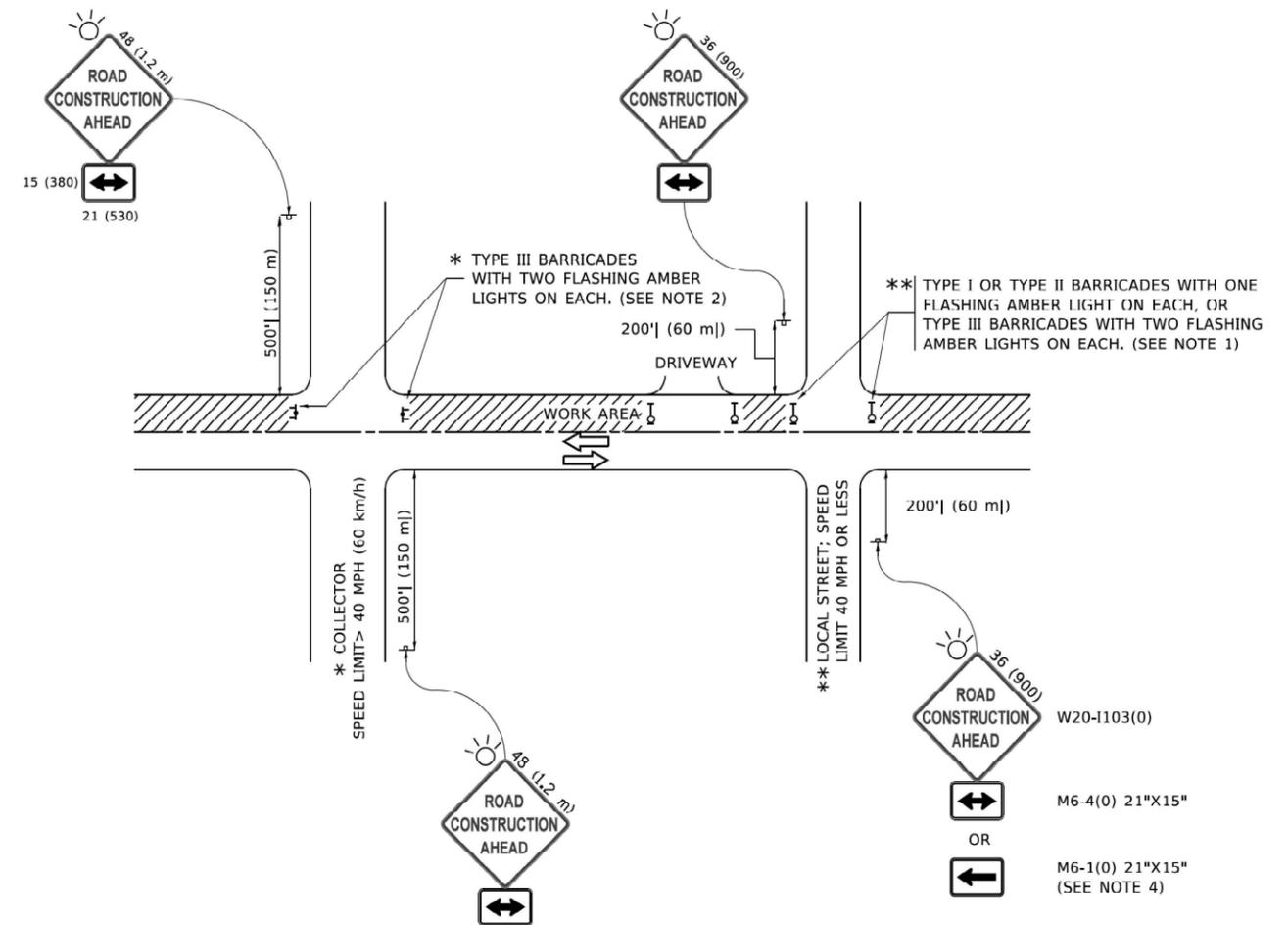


USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED - 1/24/25
PLOT SCALE = 40,000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 1/24/2025	CHECKED - DW	REVISED -
	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CABINET DETAIL 14		
IL RTE 21 (MILWAUKEE AVE) AND CDW WAY		
SCALE:	SHEET 12 OF 12 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	70
CONTRACT NO. 62W61				
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. 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.

MODEL: D:\p1\...
 FILE NAME: X:\p1\...
 DATE: 3/4/2019



USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
PLOT SCALE = 50,0000' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	71
TC-10			CONTRACT NO. 62W61	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

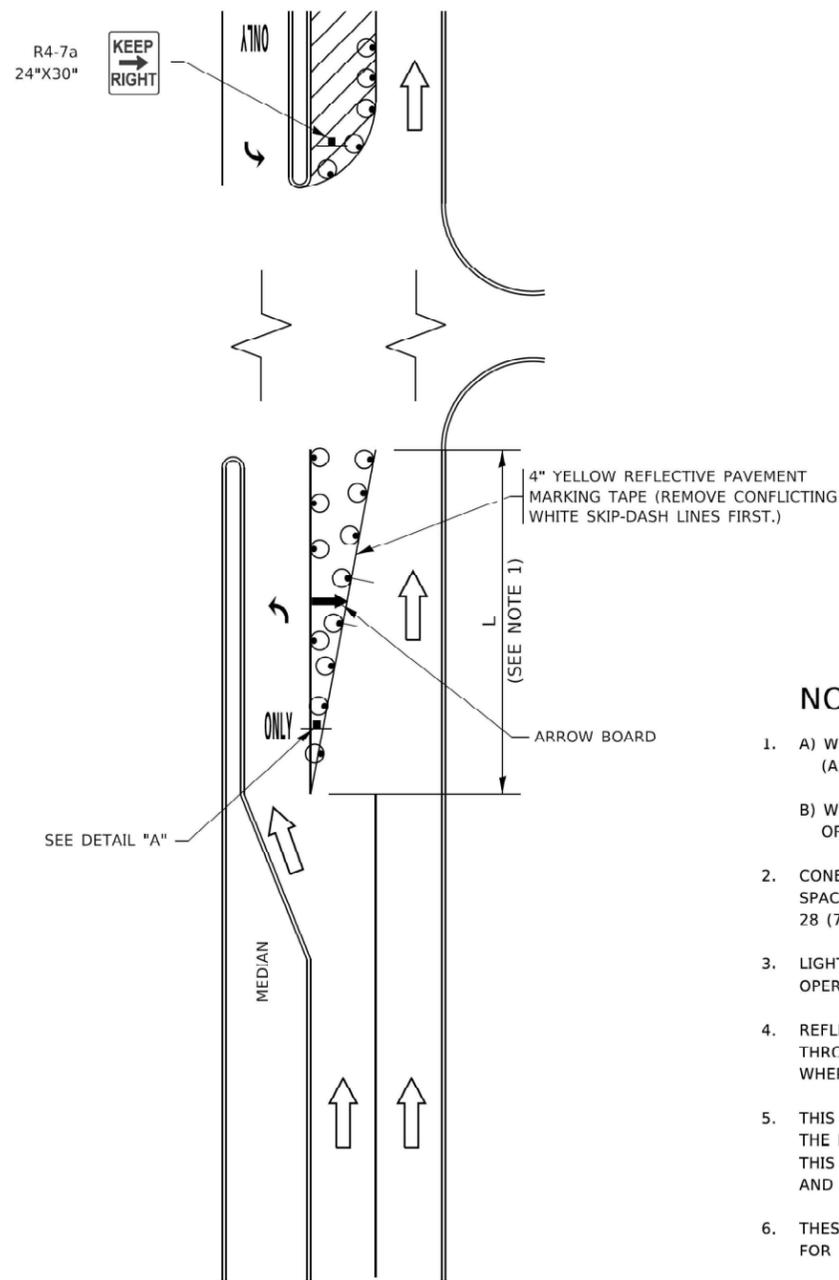


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

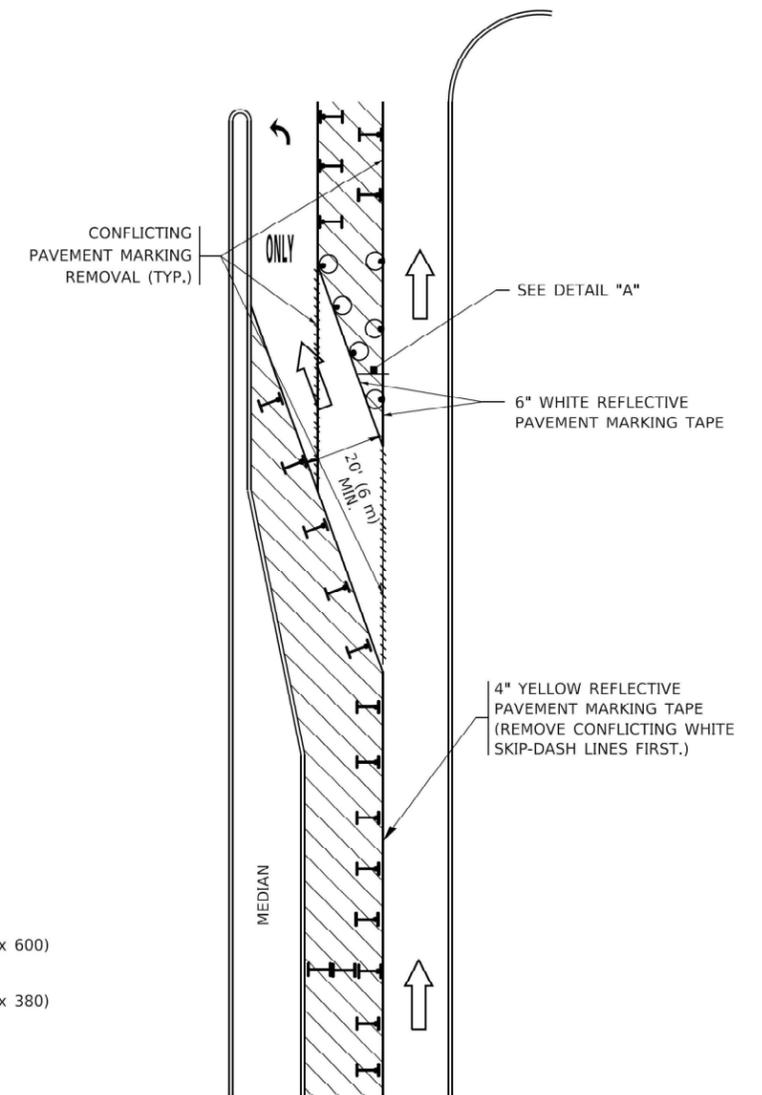


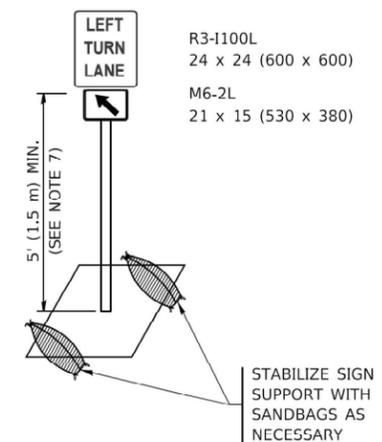
FIGURE 2

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" R3-1100R 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 REQUIREMENTS.
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.



DETAIL A

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: D:\dlz\...
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 DATE: 3/4/2019



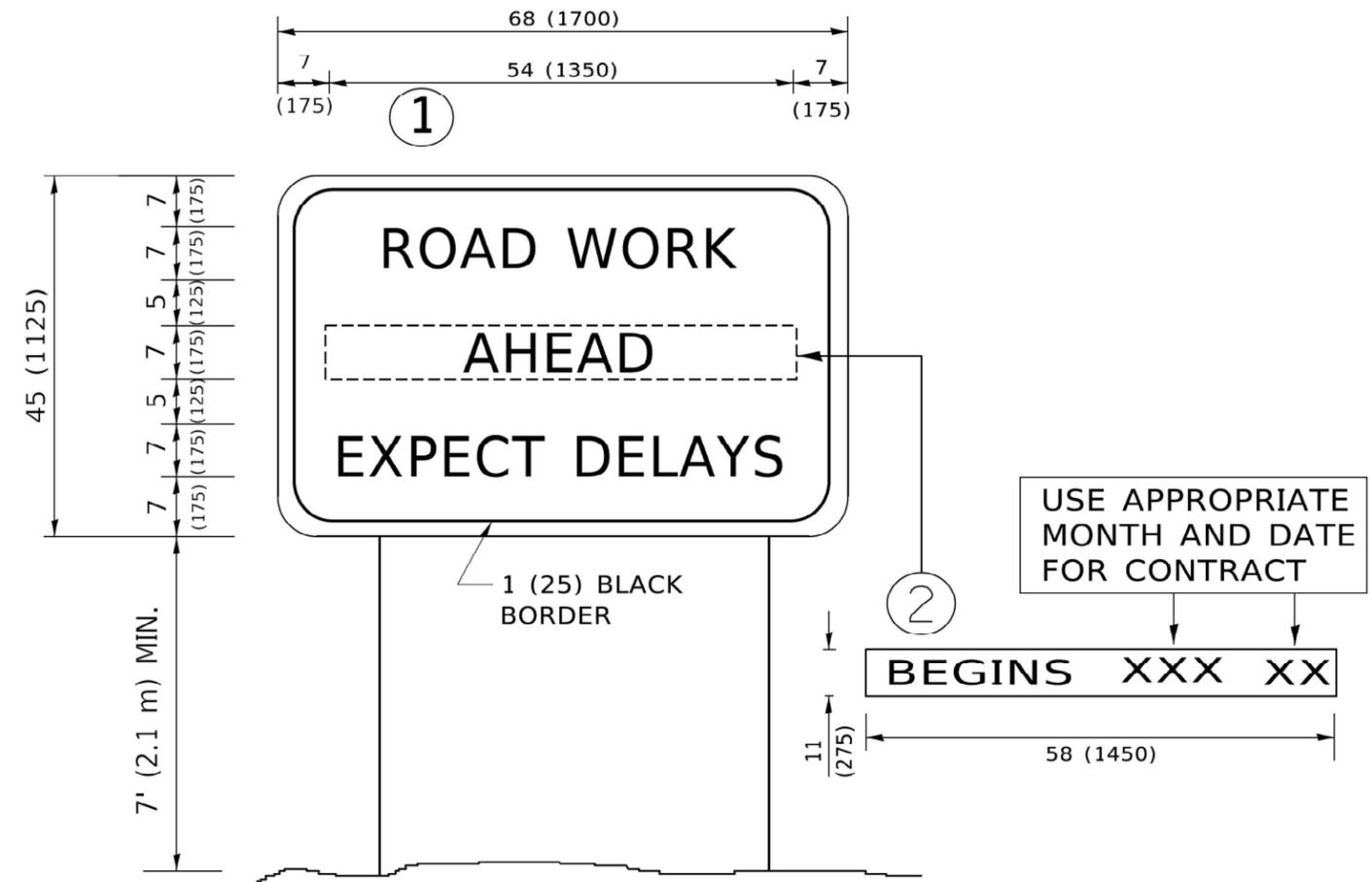
USER NAME = footemj	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
PLOT SCALE = 50,0000' / in.	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	73
TC-14		CONTRACT NO. 62W61		
ILLINOIS FED. AID PROJECT				



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.

MODEL: D:\p1\...
 FILE NAME: X:\p1\...
 DATE: 3/4/2019



USER NAME = footemj	DESIGNED -	REVISED - R, MIRS 09-15-97
PLOT SCALE = 50.0000 ' / in.	DRAWN -	REVISED - R, MIRS 12-11-97
PLOT DATE = 3/4/2019	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-940-N.TS	VAR	74	74
TC-22			CONTRACT NO. 62W61	
ILLINOIS FED. AID PROJECT				