

07-31-2026 LETTING ITEM 084
FOR INDEX OF SHEETS, SEE SHEET NO. 2

LOCATION A
US ROUTE 30 – OLYMPIAN WAY TO ORCHARD DRIVE

LOCATION B
25TH AVENUE – IL ROUTE 64 TO ARMITAGE AVENUE

LOCATION C
GRAND AVENUE – NORTHWEST AVENUE TO WOLF ROAD
WOLF ROAD – GRAND AVENUE TO DIVERSEY AVENUE

LOCATION D
IL ROUTE 43 – 16TH STREET TO CERMAK ROAD
OAK PARK AVENUE – 16TH STREET TO 26TH STREET
26TH STREET – OAK PARK AVENUE TO HIGHLAND AVENUE

TRAFFIC DATA

US ROUTE 30 (LOCATION A)
ADT (2021) = 28,800 VPD
POSTED SPEED – 40 MPH

25TH AVENUE (LOCATION B)
ADT (2022) = 15,500 VPD
POSTED SPEED – 35 MPH

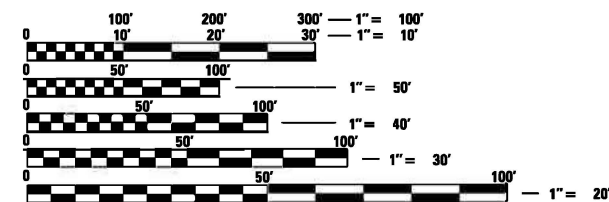
GRAND AVENUE (LOCATION C)
ADT (2022) = 24,500 VPD
POSTED SPEED – 35 MPH

WOLF ROAD (LOCATION C)
ADT (2022) = 10,800 VPD
POSTED SPEED – 30 MPH

IL ROUTE 43 (LOCATION D)
ADT (2021) = 32,700 VPD
POSTED SPEED – 35 MPH

OAK PARK AVENUE (LOCATION D)
ADT (2022) = 9,850 VPD
POSTED SPEED – 25 MPH

26TH STREET (LOCATION D)
ADT (2022) = 13,600 VPD
POSTED SPEED – 25 MPH



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: KAMIL KOBYLKA 847-705-4734
PROJECT MANAGER: JONATHAN LLOYD 847-705-4135

CONTRACT NO. 62W91

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

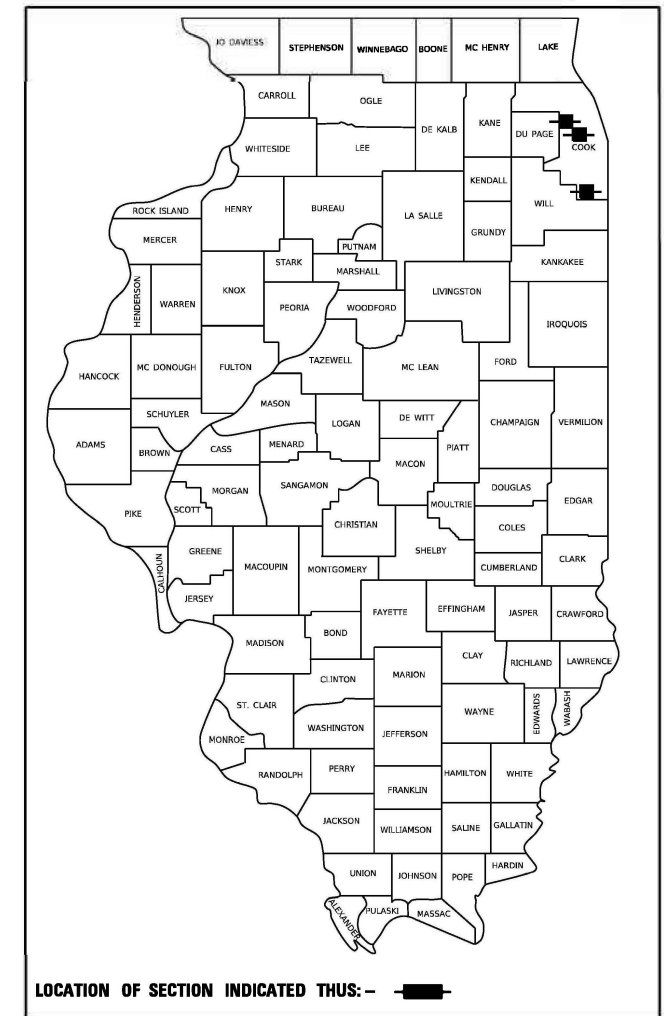
VARIOUS ROUTES
SECTION 2024-966-TS
PROJECT CMAQ-9UJ3(864)
CMAQ TRAFFIC SIGNAL INTERCONNECT
COOK COUNTY

C-91-238-24

FOR LOCATION MAP
SEE SHEET NO. 3

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	1
		ILLINOIS	CONTRACT NO. 62W91	

D-91-197-24



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 19 2026
Joseph Rios JR
REGIONAL ENGINEER

June 26 20 26
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

June 26 20 26
Patrick Brien Funk II
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

P. Brien Funk II
P. BRIEN FUNK II
EXPIRES: 11-30-2027

3-23-2026
DATE



MODEL Default
FILE Name: C:\Sharepoint\ITERIS INC\Systems - Midwest - Chicago Construction\IDOT_PTB_204-010.D1_APS_PROJECT_MANAGEMENT\12369 - WO 11 - Various Interconnect\CADD\Sheets\0162W91_Index & Notes.dgn

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IDOT HIGHWAY STANDARDS

STD NO.	TITLE
000001- 09	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
701001-02	OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER. FOR SPEEDS >= 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER. FOR SPEEDS <= 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901- 11	TRAFFIC CONTROL DEVICES
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
878001-11	CONCRETE FOUNDATION DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV 72 HOURS IN ADVANCE OF BEGINNING OF WORK.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING ANY 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 "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HRS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND RESIDENT ENGINEER PRIOR TO ORDERING MATERIALS.
- 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 THE STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
- PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE OCCURRED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TAKE CARE TO PROTECT ALL SIGNS ALONG THE ROUTE OF CONSTRUCTION. SIGNS IN CONFLICT WITH PROPOSED WORK SHALL BE RELOCATED, IF APPROVED BY ENGINEER. ALL LABOR NECESSARY TO COMPLY WITH THE RELOCATION OF SIGNS SHALL BE INCLUDED IN THE CONTRACT WITHOUT EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR ACCORDING TO ARTICLE 107.25, UNLESS MARKED ON PLANS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION.
- LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
- THE EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE CONDUIT PAY ITEMS.
- REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, AND ISLANDS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE CONDUIT PAY ITEMS.
- NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN THE REQUIREMENT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE CONDUIT PAY ITEMS.
- THE LOCATION OF THE PROPOSED CONDUIT SHOWN IN THE PLANS IS APPROXIMATE AND NOT DRAWN TO SCALE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MOWING AND BRUSH/SHRUB REMOVAL REQUIRED TO INSTALL THE PROPOSED CONDUIT AND HANDHOLES.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ALL AREAS AFFECTED BY THE EQUIPMENT AND LABORERS TO EXISTING CONDITIONS.
- THE CONTRACTOR SHALL PLAN AND CONDUCT CONDUIT AND FIBER INSTALLATION OPERATIONS TO MINIMIZE THE NUMBER OF ROADWAY LANE CLOSURES AND TO MINIMIZE TRAFFIC DISRUPTIONS AND DELAYS FOR THE MOTORING PUBLIC. THE CONTRACTOR SHALL OBTAIN ALL PERMITS ALONG STATE, COUNTY, AND TOWNSHIP ROADS.
- THE CONTRACTOR SHALL MINIMIZE THE IMPACT OF THE WORK BY UTILIZING OFF-ROAD OPERATIONS WHERE POSSIBLE.
- AT WORK AREAS THAT IMPACT PEDESTRIANS AND/OR SIDEWALK, STANDARD 701801 SHALL BE USED. CONTRACTOR SHALL MINIMIZE WORK AREAS AND DISRUPTION TO SIDEWALK WHEREVER POSSIBLE.
- THE CONTRACTOR SHALL COORDINATE WITH IDOT AND EQUIPMENT VENDORS FOR THE BEST LOCATION AND ORIENTATION OF EACH PROPOSED PTZ CAMERA PRIOR TO CAMERA INSTALLATION.
- THE CONTRACTOR SHALL MARK THE RECORD DRAWINGS TO REFLECT ANY CHANGES TO THE PLANS. THE RECORD DRAWINGS REQUIREMENTS ARE IDENTIFIED IN SECTION 801.16 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- THE QUANTITY FOR ROD AND CLEANING EXISTING CONDUIT IS FOR USE WITH EXISTING CONDUITS WHICH HAVE ALL EXISTING CABLES REMOVED. THE QUANTITY PROVIDED IS A NOMINAL QUANTITY AND SHALL BE USED AS NEEDED OR A DETERMINED BY THE ENGINEER BASED ON FIELD CONDITIONS.
- THE QUANTITY FOR TEMPORARY INFORMATION SIGNING IS FOR USE WITH DISTRICT DETAIL ARTERIAL ROAD INFORMATION SIGN (TC22). ONE SIGN IS TO BE USED FOR EACH END OF EACH INTERCONNECT CORRIDOR, MAIN ROUTE, OR ZONE.
- ALL EXISTING R.O.W. SHOWN IS APPROXIMATE AND MAY NEED TO BE VERIFIED IN THE FILED. ANY R.O.W. CONFLICTS SHALL BE COORDINATED WITH THE RESIDENT ENGINEER. ALL PROPOSED WORK SHALL TAKE PLACE WITHIN THE EXISTING R.O.W. WITHIN THE EXISTING FACULTIES INCLUDING HANDHOLES, CONDUITS, OR TRAFFIC SIGNAL CABINETS.

29. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR PROPOSED PLAN. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK.

30. THE WORK IN THIS CONTRACT IS LIMITED TO INSTALLATION OF HANDHOLES, CONDUIT, TRACER CABLE, PTZ CAMERAS, NETWORK SWITCHES, CONTROLLERS, FIBER OPTIC CABLE AND ANY OTHER COMPONENTS SPECIFIED IN THE SCHEDULE OF QUANTITIES. PREVIOUSLY PROPOSED WORK MAY BE PRESENT ON THE RECORD DRAWINGS. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

- "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED AT LOCATIONS WHERE ROADWAY HAZARDS WITHIN THE WORK ZONE WILL REMAIN OVERNIGHT.
- REVISED CABINET WIRING DIAGRAMS SHALL BE SUBMITTED WHENEVER ANY WIRING MODIFICATIONS ARE MADE TO THE TRAFFIC SIGNAL CABINET.
- FIBER OPTIC PIGTAIL BETWEEN HANDHOLE AND END DEVISE SHALL BE 24 SINGLE MODE FIBER. FIBER OPTIC PIGTAIL SHALL BE SPLICED AND TERMINATED AS SHOWN ON THE FIBER SPLICING DIAGRAM.
- FIBER OPTIC INTERCONNECT CENTER SHALL BE INSTALLED SUCH THAT THE CABINET DOOR DOES NOT CLOSE ON THE FIBER PIGTAILS AND/OR PATCH CORDS. PROVIDE SUFFICIENT SPACE AND ADJUST CABINET SHELF AS NEEDED.



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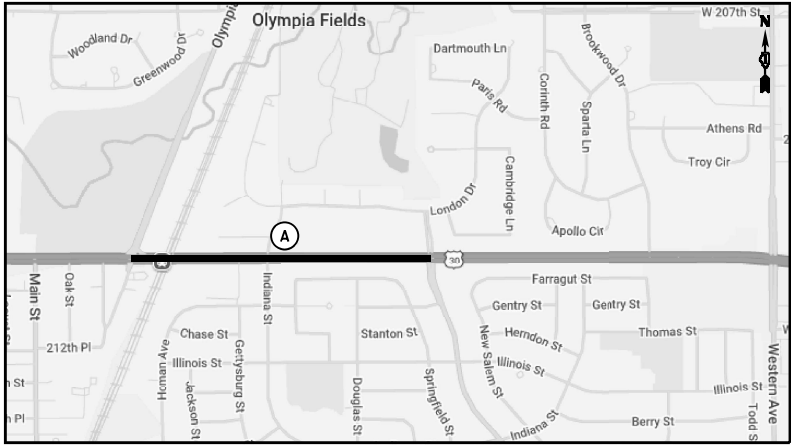
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	2
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	

LOCATION MAP



SUMMARY OF LOCATIONS

NO.	SHEET	SYSTEM	INTERSECTION/INTERCONNECT
A	15	ECON 53 & 54	US ROUTE 30 - OLYMPIAN WAY TO ORCHARD DRIVE
B	21	ECON 100	25TH AVENUE - IL ROUTE 64 TO ARMITAGE AVENUE
C	27	CENTRACS 244	GRAND AVENUE - NORTHWEST AVENUE TO WOLF ROAD WOLF ROAD - GRAND AVENUE TO DIVERSEY AVENUE
D	38	CENTRACS 30	IL ROUTE 43 - 16TH STREET TO CERMAK ROAD OAK PARK AVENUE - 16TH STREET TO 26TH STREET 26TH STREET - OAK PARK AVENUE TO HIGHLAND AVENUE

RED LIGHT RUNNING (RLR) NOTES

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

RLR CAMERA LOCATION:

US ROUTE 30 (LINCOLN HWY) AT ORCHARD DRIVE (TS1395)

VILLAGE OF OLYMPIA FIELDS	RED FLEX (VERRA MOBILITY)
20040 GOVERNORS HIGHWAY	5651 W TALAVI BLVD, STE 200
OLYMPIA FIELDS, IL 60461	GLENDALE, AZ 85306
708-503-8000	630-453-1209

IL ROUTE 43 (HARLEM AVE) AT CERMAK ROAD (TS2280)

CITY OF BERWYN	SAFESPEED, LLC.
6700 W 30TH STREET	150 N WACKER DR
BERWYN, IL 60402	CHICAGO, IL 60606
708-749-4700	312-522-7304

26TH STREET AT EAST AVENUE (TS7920)

CITY OF BERWYN	RED SPEED, LLC.
6700 W 30TH STREET	400 EISENHOWER LANE
BERWYN, IL 60402	LOMBARD, IL 60148
708-749-4700	630-317-5705



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PLOT DATE	= 5/5/2026

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP
RED LIGHT RUNNING NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	3
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Chicago Construction\DOT_PTB_204\010.D1_APS_PROJECT_MANAGEMENT\12369 - WO 11 - Various Interconnect\CADD\Sheets\0162W91_Quantities.dgn

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				80% FED 20% STATE
				INTERCONNECT
				0021 URBAN
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	83	83
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5
67100100	MOBILIZATION	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	9627	9627
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	522	522
81300320	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8" X 8" X 6"	EACH	2	2

* SPECIALTY ITEM



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	4
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS - INCL\Systems - Midwest - Chicago Construction\DOT - P1B 204\010 D1 APS PROJECT MANAGEMENT\12369 - WO 11 - Various Interconnect\CADD\Sheets\0162W91_Quantities.dgn

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				80% FED 20% STATE
				INTERCONNECT
				0021 URBAN
81300680	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 14" X 16" X 20"	EACH	10	10
81400100	HANDHOLE	EACH	22	22
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	17	17
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	22911	22911
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	6904	6904
87900200	DRILL EXISTING HANDHOLE	EACH	21	21
88500100	INDUCTIVE LOOP DETECTOR	EACH	21	21
88600100	DETECTOR LOOP, TYPE I	FOOT	81	81
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	3	3
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8	8
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	4710	4710
X0325922	CELLULAR MODEM	EACH	1	1
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	503	503
X1400217	TERMINATE FIBER IN CABINET	EACH	12	12
X1400221	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1	1
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				80% FED 20% STATE
				INTERCONNECT
				0021 URBAN
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	359.8	359.8
X8101099	UNDERGROUND CONDUIT, MULTI-DUCT, 3 WAY - 22MM (2), 1.25 SDR 11 (1) MICRODUCTS	FOOT	7076	7076
X8101308	UNDERGROUND CONDUIT, SINGLE MICRODUCT, 1" DIA.	FOOT	1960	1960
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2	2
X8570224	FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET	EACH	5	5
X8620200	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	5	5
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3635	3635
X8710029	FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	23811	23811
X8710049	POWER OVER ETHERNET EXTENDER	EACH	1	1
X8710070	FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	10	10
X8710106	NETWORK SWITCH, ACCESS	EACH	10	10
X8710317	SPLICE FIBER IN CABINET	EACH	24	24
X8891104	REMOTE CONTROLLED VIDEO SYSTEM	EACH	3	3
Z0010688	CAMERA MOUNTING ASSEMBLY	EACH	1	1
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1	1
Ø Z0076600	TRAINEES	HOURL	500	500
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	4	4
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURL	500	500



USER NAME = bfunck
PLOT SCALE = 100,0000 ' / in.
PLOT DATE = 6/18/2026

DESIGNED - BF
DRAWN - BF
CHECKED - AG
DATE - 6/18/26

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	6
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

ITEM				ITEM				ITEM			
EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
TRAFFIC SIGNAL CABINET				HANDHOLE -SQUARE -ROUND				SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD -(EV) ELONGATED VISORS			
UNINTERRUPTABLE POWER SUPPLY				DOUBLE HANDHOLE				SIGNAL HEAD WITH BACKPLATE -(RB) RETROREFLECTIVE BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(EV) ELONGATED VISORS			
COMMUNICATION CABINET				HEAVY DUTY HANDHOLE -SQUARE -ROUND				PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER			
MASTER CONTROLLER				JUNCTION BOX				ILLUMINATED LED SIGN "NO LEFT TURN"/"NO RIGHT TURN"			
MASTER MASTER CONTROLLER				RAILROAD CANTILEVER MAST ARM				ELECTRIC CABLE, SIGNAL, NO. 14 - 2/C, 3/C, 5/C, 7/C			
SERVICE INSTALLATION -(P) POLE MOUNTED				RAILROAD FLASHING SIGNAL				ELECTRIC CABLE, LEAD-IN, NO. 14, 1 PAIR			
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED				RAILROAD CROSSING GATE				SERVICE CABLE, 2/C - NO. 2, NO. 4, NO. 6			
CELLULAR MODEM				RAILROAD CROSSBUCK				GROUND CABLE NO. 6 SOLID COPPER (GREEN), 1/C			
TELEPHONE CONNECTION				RAILROAD CONTROLLER BUNGALOW				ELECTRIC CABLE, TRACER, NO. 14, 1/C			
STEEL MAST ARM ASSEMBLY AND POLE				UNDERGROUND CONDUIT (UC), GALVANIZED STEEL				ELECTRIC CABLE, RAILROAD, NO. 14, 3/C			
ALUMINUM MAST ARM ASSEMBLY AND POLE				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				ELECTRIC CABLE, STREET NAME SIGN NO. 14, 3/C, TYPE SOOW			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				VENDOR CABLE			
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY				INTERSECTION ITEM				EMERGENCY VEHICLE PRIORITY LINE SENSOR CABLE, NO. 20, 3/C			
WOOD POLE				REMOVAL ITEM				OUTDOOR RATED NETWORK CABLE			
GUY WIRE				RELOCATE ITEM				FIBER OPTIC CABLE -12F: 12 MULTIMODE -24F: 12 MULTIMODE / 12 SINGLE MODE -36F: 12 MULTIMODE / 24 SINGLE MODE -24SM: 24 SINGLE MODE -48SM: 48 SINGLE MODE			
SIGNAL HEAD				ABANDON ITEM				GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE			
SIGNAL HEAD WITH BACKPLATE				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED							
SIGNAL HEAD - PROGRAMMABLE				MAST ARM POLE AND FOUNDATION TO BE REMOVED							
FLASHER INSTALLATION -(FS) SOLAR POWERED				SIGNAL POST AND FOUNDATION TO BE REMOVED							
PEDESTRIAN SIGNAL HEAD				DETECTOR LOOP, TYPE I							
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON				PREFORMED DETECTOR LOOP							
RADAR DETECTION SENSOR				WIRELESS DETECTOR SENSOR							
VIDEO DETECTION CAMERA											
RADAR/VIDEO DETECTION ZONE											
PAN, TILT, ZOOM (PTZ) CAMERA											
EMERGENCY VEHICLE LIGHT DETECTOR											
CONFIRMATION BEACON											
WIRELESS INTERCONNECT											
WIRELESS INTERCONNECT RADIO REPEATER											
WIRELESS ACCESS POINT											

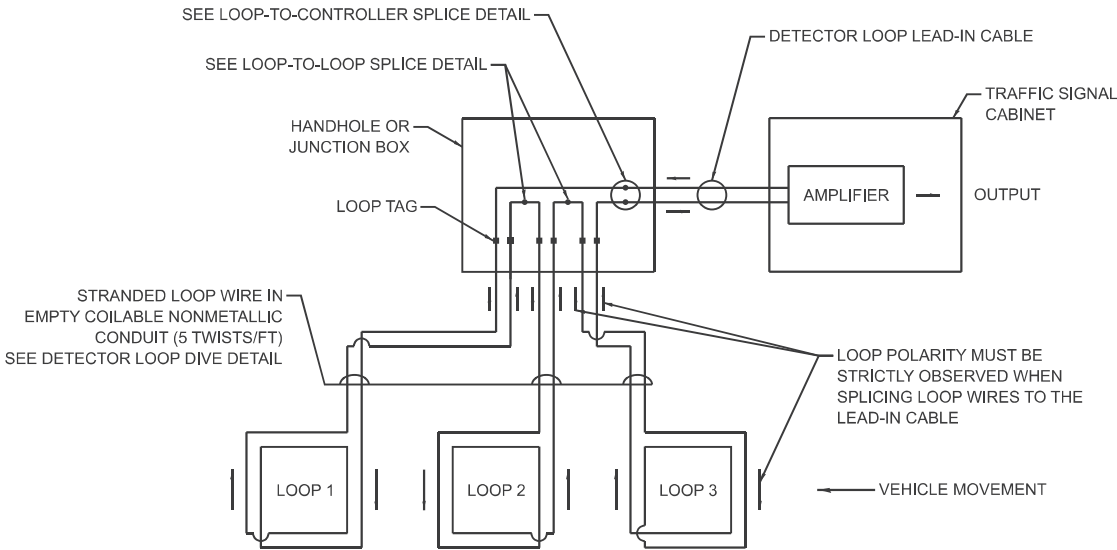
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	PLOT DATE = 12/15/2025		DATE - 10/15/2025	REVISED -

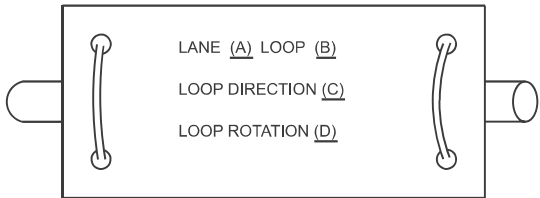
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							60	7
				TS-01		CONTRACT NO.		
SCALE: NONE				SHEET 1	OF 7	SHEETS	STA.	TO STA.

DETECTOR LOOP NOTES:

1. LOOPS SHALL BE SPLICED IN SERIES.
2. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" AT A DEPTH OF 3". IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
3. LOOP CORNERS SHALL BE DRILLED WITH A 2" DIAMETER CORE.
4. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NON-METALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6". EMPTY COILABLE NON-METALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE DETECTOR LOOP PAY ITEM.
5. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
6. EACH LEAD-IN CABLE SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP NUMBER, LOOP DIRECTION (IN OR OUT), AND LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE) IN WATER PROOF INK. SEE DETECTOR LOOP LEAD-IN CABLE TAG DETAIL. THE CONTRACTOR SHALL MARK THE LOOP LOCATIONS ON THE RECORD DRAWINGS AND PRESENT THEM TO THE ENGINEER AFTER THE FINAL INSPECTION.
7. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
8. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND THE DIVE HOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" APART.
9. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS.
10. PREFORMED DETECTOR LOOPS SHALL BE USED WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

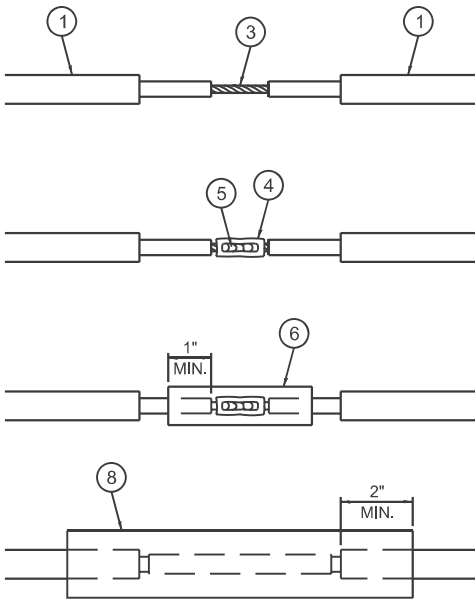


DETECTOR LOOP WIRING SCHEMATIC



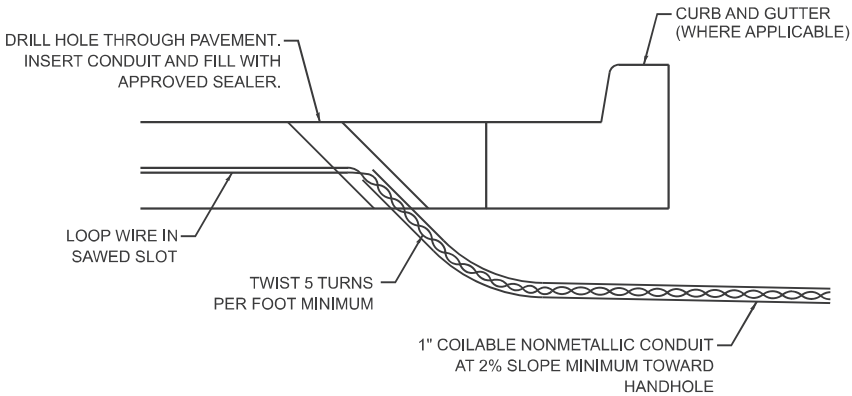
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY.
- B. LOOP #1 IS THE LOOP CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

DETECTOR LOOP LEAD-IN CABLE TAG

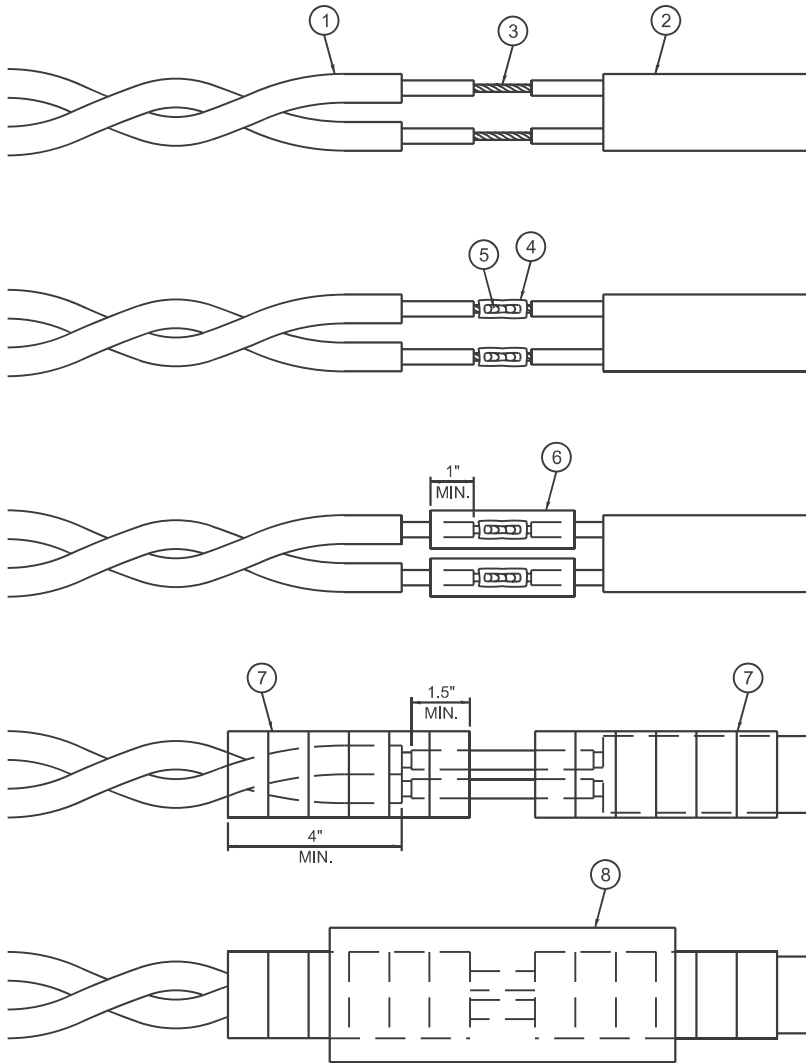


LOOP-TO-LOOP SPLICE DETAIL

- 1 DETECTOR LOOP CABLE.
- 2 DETECTOR LOOP LEAD-IN CABLE
- 3 BARE CONDUCTORS TWISTED TOGETHER.
- 4 BUTT SPLICE CRIMP CONNECTOR.
- 5 SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE SPLICES SHALL BE STAGGERED.
- 6 WCSMW 30/100 HEAT SHRINK TUBE, 3" MINIMUM LENGTH, UNDERWATER GRADE.
- 7 SELF-INFUSED, SILICONE ELECTRICAL TAPE TIGHTLY WRAPPED AROUND CABLES.
- 8 WCS 200/750 HEAT SHRINK TUBE, 8" MINIMUM LENGTH, UNDERWATER GRADE.



DETECTOR LOOP DIVE DETAIL



LOOP-TO-CONTROLLER SPLICE DETAIL

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			DRAWN - IP		REVISED -												60	8
	PLOT SCALE = \$SCALE\$		CHECKED - NB/KK		REVISED -			TS-01					CONTRACT NO.					
	PLOT DATE = 12/16/2025		DATE - 10/15/2025		REVISED -													
								SCALE: NONE		SHEET 2 OF 7 SHEETS		STA. TO STA.						

1. THE MAST ARM MOUNTED SIGNAL HEADS SHALL BE CENTERED ON THE LANES OR AS SHOWN ON THE TRAFFIC SIGNAL PLANS.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET MINIMUMS TABLE.
3. A 4' MINIMUM UNOBSTRUCTED PEDESTRIAN ACCESS ROUTE SHALL BE MAINTAINED.
4. THE PUSH-BUTTON SHALL BE LOCATED 5' OR LESS FROM THE OUTSIDE EDGE OF THE MARKED CROSSWALK FARTEST FROM THE INTERSECTION FOR THE CROSSWALK THAT THE PUSH-BUTTON CONTROLS.
5. IF THE MAST ARM POLE OR SIGNAL POST WHERE THE PUSH-BUTTON IS TO BE INSTALLED IS NOT IMMEDIATELY ADJACENT TO THE SIDEWALK, PROVIDE A FIRM, STABLE, AND SLIP RESISTANT SURFACE UP TO THE MAST ARM POLE OR SIGNAL POST. THE MINIMUM PAVED AREA IN FRONT OF THE PUSH-BUTTON SHALL BE 2.5' X 4'. IF THIS DOES NOT MEET THE REQUIREMENT STATED IN NOTE 3, A SEPARATE PEDESTRIAN SIGNAL POST SHALL BE INSTALLED TO PLACE THE PUSH-BUTTON ADJACENT TO THE SIDEWALK SURFACE.
6. THE HEIGHT OF THE PEDESTRIAN PUSH-BUTTON SHALL BE 36". IF APPROVED BY THE AREA TRAFFIC SIGNAL ENGINEER, THE PUSH-BUTTON MAY BE LOCATED AT A HEIGHT BETWEEN 30" AND 42". THE HEIGHT OF THE EQUESTRIAN PUSH-BUTTON SHALL BE 72" OR AS DIRECTED BY THE ENGINEER.
7. THE FACE OF THE PUSH-BUTTON SHALL BE PARALLEL TO THE CROSSWALK IT CONTROLS.
8. THE PUSH-BUTTON SHALL BE LOCATED BEHIND THE DETECTABLE WARNING.
9. WHERE A PUSH-BUTTON IS BEING INSTALLED ON A MAST ARM POLE OR SIGNAL POST ADJACENT TO THE PEDESTRIAN ACCESS ROUTE, THE PROPOSED FOUNDATION SHALL BE INSTALLED WITHIN THE SIDE CURB IN ORDER TO MEET THE 10" REACH REQUIREMENT.
10. THE SIDEWALK PANEL IN FRONT OF THE PUSH-BUTTON SHALL HAVE A SLOPE LESS THAN 5%.
11. WHERE TWO PEDESTRIAN PUSH-BUTTONS ARE PROVIDED ON THE SAME CORNER, THEY SHALL BE 10' OR MORE APART. EXCEPTION: IN ALTERATIONS WHERE TECHNICALLY INFEASIBLE TO PROVIDE 10' SEPARATION BETWEEN PUSH-BUTTONS ON THE SAME CORNER.
12. CORRESPONDING PEDESTRIAN EQUIPMENT (SIGNAL HEAD AND PUSH-BUTTON) SHALL BE INSTALLED ON THE SAME POST CLOSEST TO THE CROSSWALK IT CONTROLS.
13. PEDESTRIAN SIGNAL HEADS INSTALLED ON MAST ARM POLES OR SIGNAL POSTS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) NOT LESS THAN 8' OR MORE THAN 10' ABOVE SIDEWALK LEVEL. PEDESTRIAN SIGNAL HEADS INSTALLED ON PEDESTRIAN SIGNAL POSTS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) NOT LESS THAN 8' ABOVE SIDEWALK LEVEL. THE PEDESTRIAN SIGNAL HEADS SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
14. THE LOCATIONS OF THE PEDESTRIAN PUSH-BUTTONS AND PEDESTRIAN SIGNAL HEADS SHALL MEET THE REQUIREMENTS OF THE MUTCD, PROWAG, AND THE REQUIREMENTS ON THIS DETAIL SHEET.

SEE NOTE 2

5' MAX.

10' MAX.

4' MIN.

PUSH-BUTTONS MIN. 10' APART

5' MAX.

4' MIN.

SEE NOTE 2

10' MAX.

CURB RAMP LESS THAN 5% SLOPE. SEE NOTE 10.

SEE NOTE 2

5' MAX.

10' MAX.

4' MIN.

PUSH-BUTTONS MIN. 10' APART

5' MAX.

4' MIN.

SEE NOTE 2

10' MAX.

CURB RAMP GREATER THAN 5% SLOPE. SEE NOTE 10.

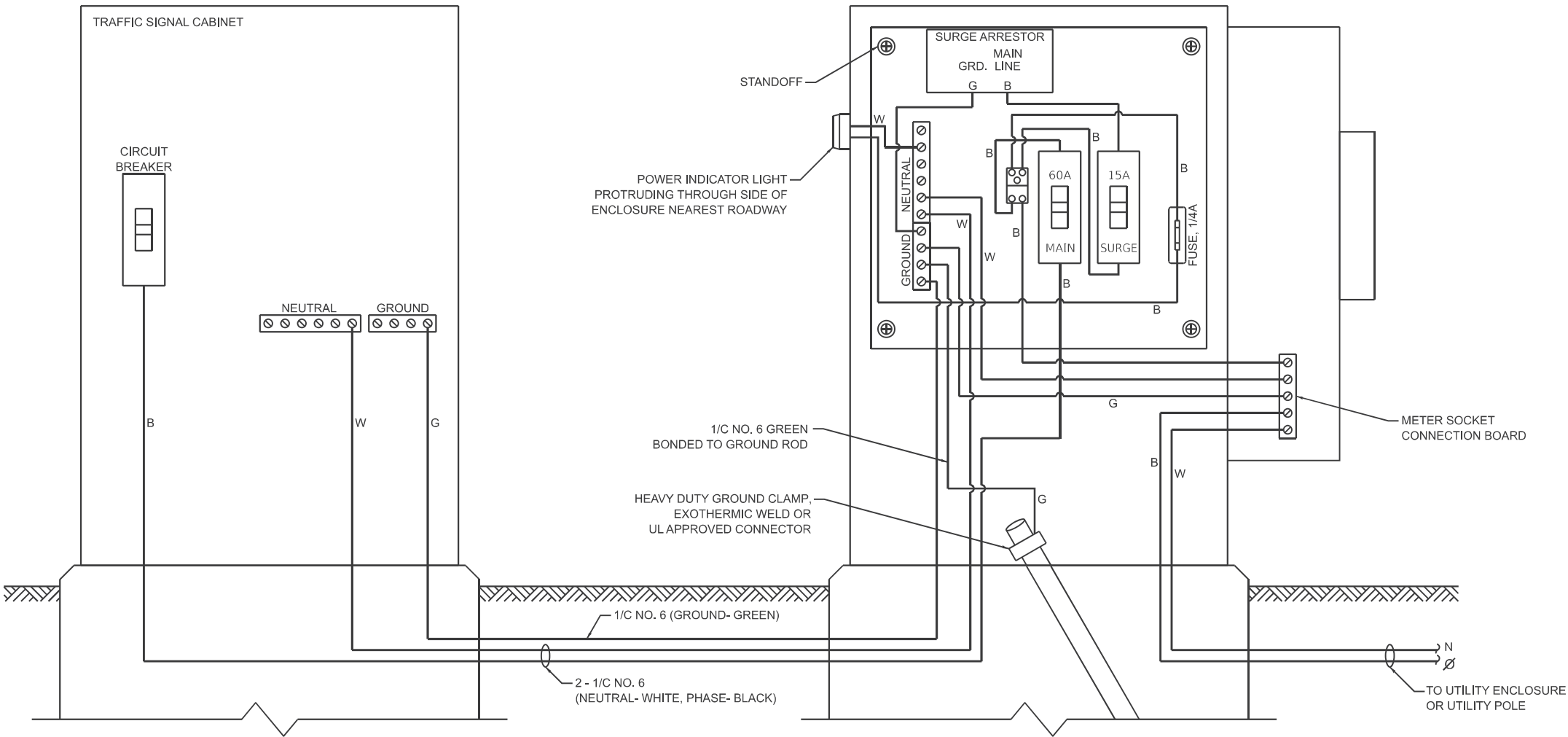
PREFERRED PUSH-BUTTON LOCATION

TRAFFIC SIGNAL EQUIPMENT	BARRIER CURB (MINIMUM DISTANCE FROM THE BACK OF CURB TO THE CENTER OF THE FOUNDATION)	SHOULDER / NON-BARRIER CURB (MINIMUM DISTANCE FROM THE EDGE LINE OF THE RIGHT-MOST LANE TO THE CENTER OF THE FOUNDATION)
MAST ARM ASSEMBLY AND POLE	6'	SHOULDER WIDTH + 2', MINIMUM 10'
SIGNAL POST	4'	SHOULDER WIDTH + 2', MINIMUM 10'
PEDESTRIAN SIGNAL POST	4'	4' - SEE NOTE 2
TEMPORARY WOOD POLE	6'	SHOULDER WIDTH + 2', MINIMUM 10'
TRAFFIC SIGNAL CABINET	6' - SEE NOTE 3	SHOULDER WIDTH + 6', MINIMUM 16' - SEE NOTE 3
SERVICE CABINET	6' - SEE NOTE 3	SHOULDER WIDTH + 6', MINIMUM 16' - SEE NOTE 3

1. CONTACT THE AREA TRAFFIC SIGNAL ENGINEER FOR ASSISTANCE LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS AND THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF THE DETECTABLE WARNING.
3. MINIMUM DISTANCE 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" TABLE AND THE TRAFFIC SIGNAL PLAN COULD AFFECT THE PLACEMENT OF THE TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, AND THE PEDESTRIAN PUSH-BUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THESE REQUIREMENTS. THE LOCATIONS OF THE PEDESTRIAN PUSH-BUTTONS AND PEDESTRIAN SIGNAL HEADS SHALL MEET THE REQUIREMENTS OF THE MUTCD, PROWAG, AND THE REQUIREMENTS ON THIS DETAIL SHEET.

FILE NAME:	USER NAME = lawrence.demanche	DESIGNED - IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - IP	REVISED -									60	9	
	PLOT SCALE = \$SCALE\$	CHECKED - NB/KK	REVISED -		SCALE: NONE		SHEET 3	OF 7 SHEETS	STA.	TO STA.	TS-01			CONTRACT NO.
	PLOT DATE = 12/16/2025	DATE - 10/15/2025	REVISED -								ILLINOIS FED. AID PROJECT			

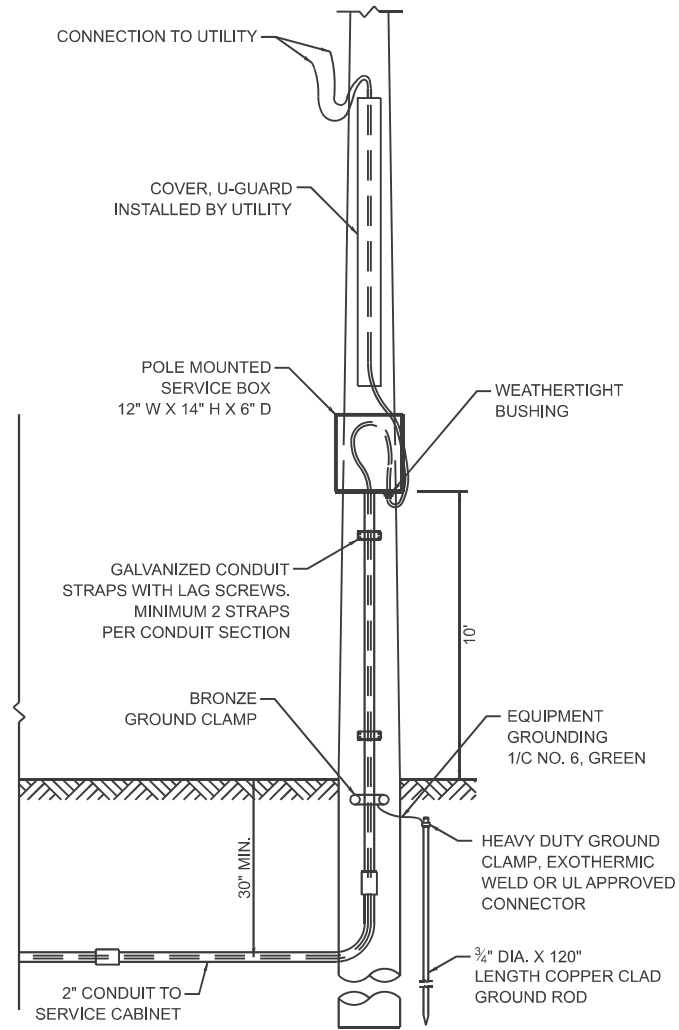
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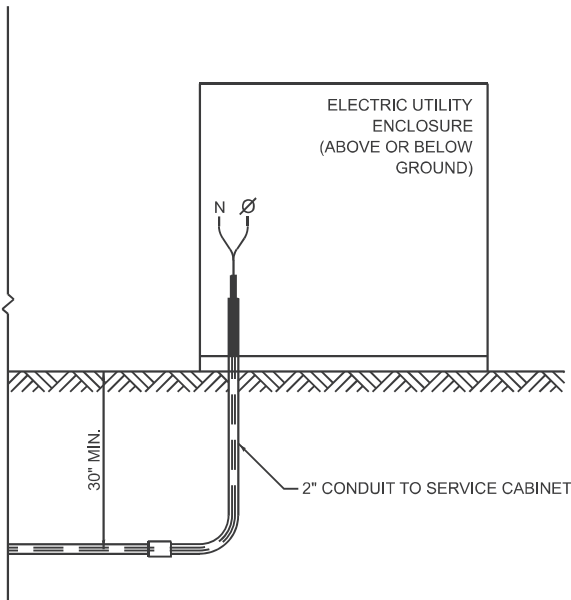
ELECTRIC SERVICE WIRING DIAGRAM IN GROUND MOUNTED SERVICE CABINET

NOTES:

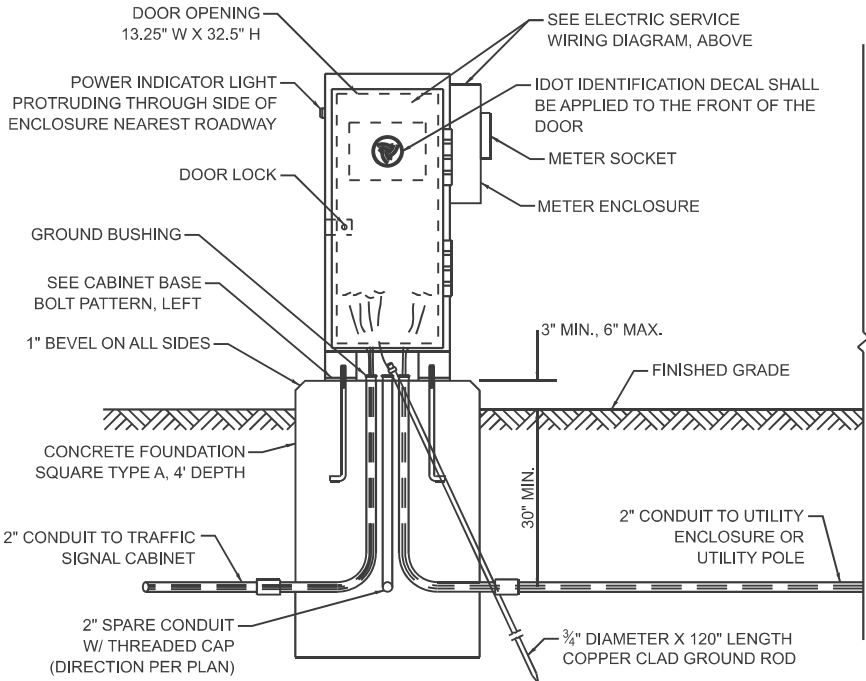
1. THE GROUND MOUNTED SERVICE CABINET IS TO BE LOCATED BETWEEN THE TRAFFIC SIGNAL CABINET AND THE UTILITY CONNECTION, PREFERABLY 20' TO 50' FROM THE TRAFFIC SIGNAL CONTROLLER CABINET.
2. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO UL STD. 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE UL LABEL.
3. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
4. THE METER SOCKET IS TO BE PROVIDED BY THE CONTRACTOR. THE METER IS TO BE PROVIDED BY THE UTILITY COMPANY.



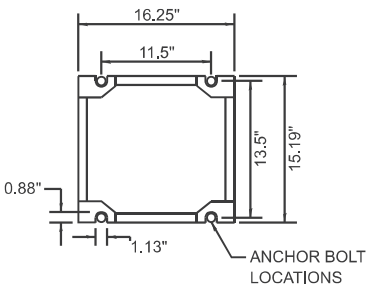
CONNECTION TO UTILITY POLE



CONNECTION TO UTILITY ENCLOSURE



SERVICE INSTALLATION - GROUND MOUNTED WITH METER



CABINET BASE BOLT PATTERN

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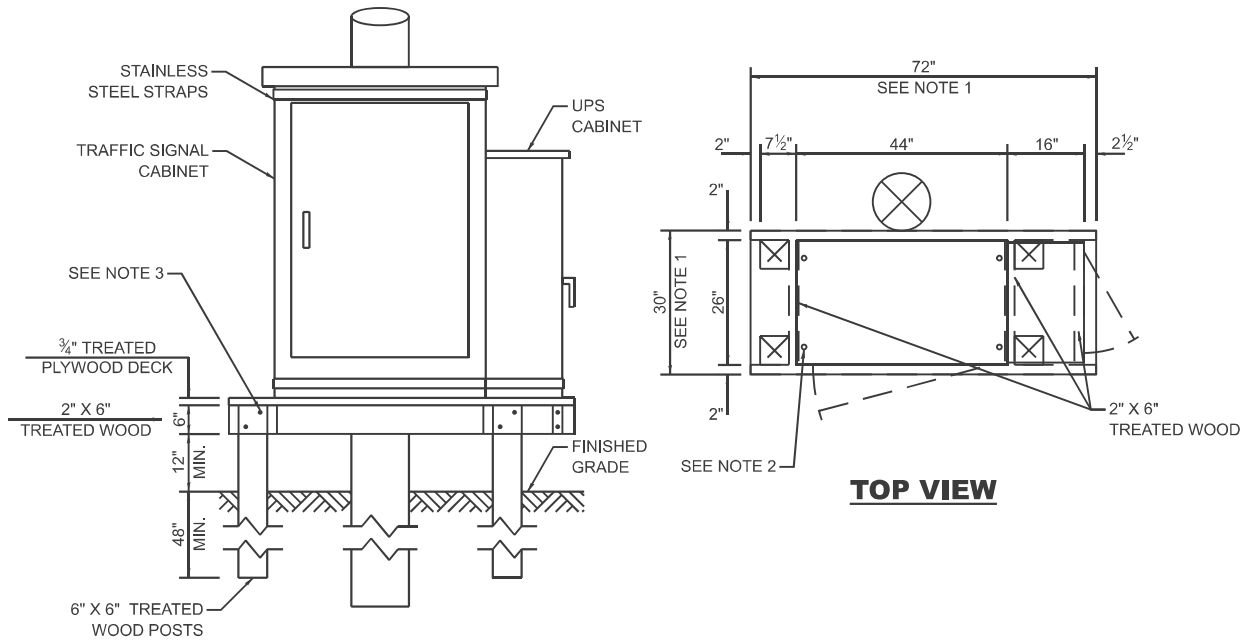
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PLOT SCALE = \$SCALE\$	CHECKED - NB/KK	REVISED -
PLOT DATE = 12/16/2025	DATE - 10/15/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			60	10
TS-01		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		



NOTES:

- 1. THE PLATFORM SIZE IS BASED ON A TRAFFIC SIGNAL CABINET TYPE IV WITH BASE DIMENSIONS OF 26" X 44" AND UNINTERRUPTABLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" X 25". ADJUST THE PLATFORM SIZE TO FIT THE BASE DIMENSIONS OF THE CABINET SUPPLIED.
- 2. DRILLED HOLES THROUGH THE PLATFORM ARE TO MATCH THE TRAFFIC SIGNAL CABINET BOLT TEMPLATE. THE CABINET SHALL BE FASTENED TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS, AND NUTS.
- 3. ALL WOOD SUPPORT FRAMING SHALL BE FASTENED TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

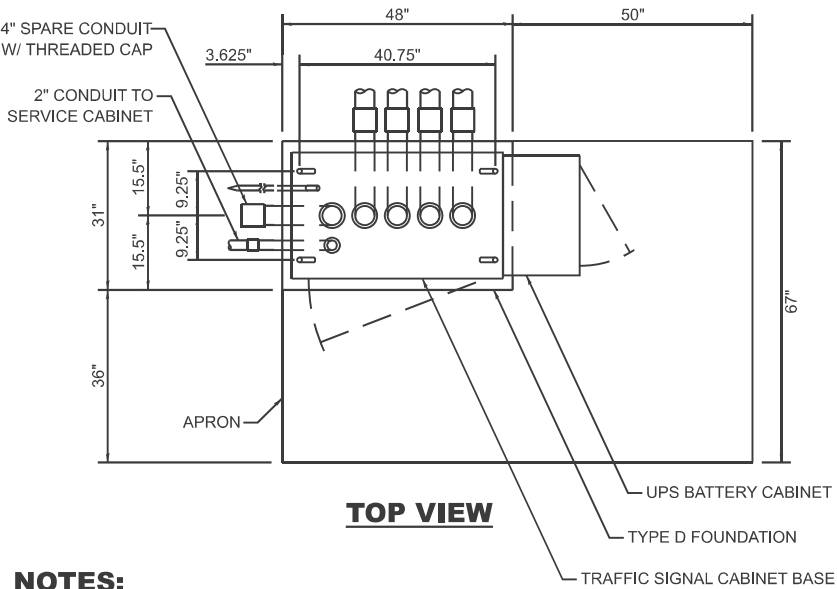
TEMPORARY TRAFFIC SIGNAL
CABINET WOOD SUPPORT PLATFORM

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
LESS THAN 30'	10'	30"	24"	8	#6
GREATER THAN OR EQUAL TO 30' AND LESS THAN 40'	13.5'	30"	24"	8	#6
	11'	36"	30"	12	#7
GREATER THAN OR EQUAL TO 40' AND LESS THAN 50'	13'	36"	30"	12	#7
GREATER THAN OR EQUAL TO 50' AND UP TO 55'	15'	36"	30"	12	#7
GREATER THAN OR EQUAL TO 56' AND LESS THAN 65'	21'	42"	36"	16	#8
GREATER THAN OR EQUAL TO 65' AND UP TO 75'	25'	42"	36"	16	#8

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

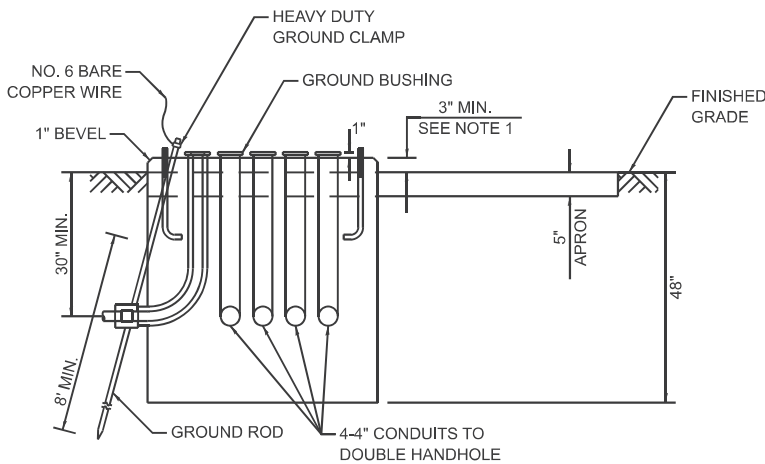
TYPE E FOUNDATION NOTES:

- 1. FOR STANDARD AND COMBINATION MAST ARM ASSEMBLIES. FOUNDATION DEPTHS FOR STANDARD DUAL MAST ARMS WITH THE LONGEST ARM LENGTH UP TO AND INCLUDING 55' SHALL BE INCREASE BY 1' OF THAT SHOWN IN THE TABLE, BASED ON THE LONGER OF THE TWO ARMS.
- 2. SEE STATE STANDARD 878001 CONCRETE FOUNDATION DETAILS FOR MORE INFORMATION.

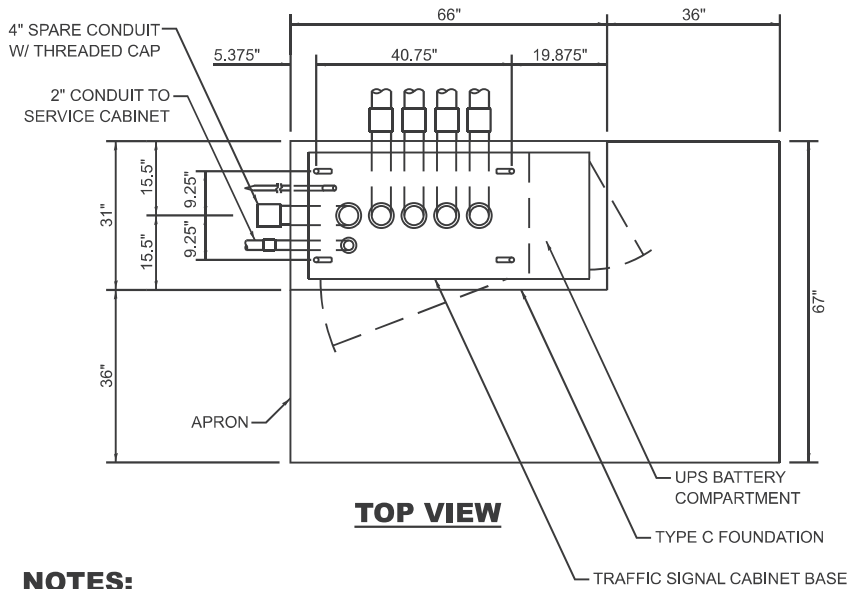


NOTES:

- 1. THE TOP OF THE FOUNDATION SHALL BE HIGHER THAN THE TOP OF THE DOUBLE HANDHOLE.

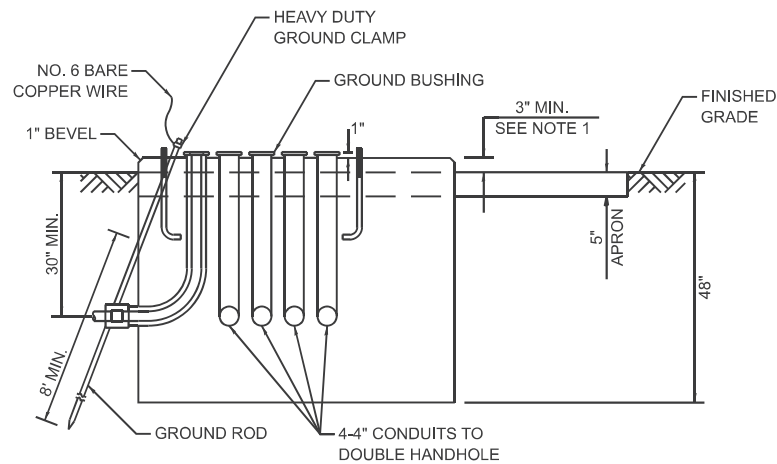


TYPE D FOUNDATION
TYPE IV AND TYPE V TRAFFIC SIGNAL CABINET
AND UPS BATTERY CABINET



NOTES:

- 1. THE TOP OF THE FOUNDATION SHALL BE HIGHER THAN THE TOP OF THE DOUBLE HANDHOLE.



TYPE C FOUNDATION
SUPER P AND SUPER R
TRAFFIC SIGNAL CABINETS

FOUNDATION	DEPTH
TYPE A - SIGNAL POST, SERVICE CABINET	4'
TYPE C - TRAFFIC SIGNAL CABINET WITH UPS	4'
TYPE D - TRAFFIC SIGNAL CABINET	4'

DEPTH OF FOUNDATIONS
TYPES A, C & D

VERTICAL CABLE	LENGTH
MAST ARM MOUNTED SIGNAL HEAD (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20'+L
BRACKET MOUNTED SIGNAL HEAD (MAST ARM POLE OR SIGNAL POLE)	13'
PEDESTRIAN SIGNAL HEAD	10'
PEDESTRIAN PUSH BUTTON	6'
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5'
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5'
SERVICE INSTALLATION GROUND MOUNT	6'
FOUNDATION (SIGNAL POST, MAST ARM, TRAFFIC SIGNAL CABINET, SERVICE CABINET)	3'

VERTICAL CABLE LENGTH

CABLE SLACK	LENGTH
HANDHOLE	6.5'
DOUBLE HANDHOLE	13'
SIGNAL POST	2'
MAST ARM	2'
TRAFFIC SIGNAL CABINET OR SERVICE CABINET	1.5'
FIBER OPTIC CABLE AT TRAFFIC SIGNAL CABINET	13'
GROUND CABLE AT SIGNAL POST, MAST ARM, OR CABINET	1.5'
GROUND CABLE AT HANDHOLE OR DOUBLE HANDHOLE	6.5'
GROUND CABLE BETWEEN HANDHOLE FRAME AND COVER	5'

CABLE SLACK LENGTH

MODEL: TS-01e [Sheet]
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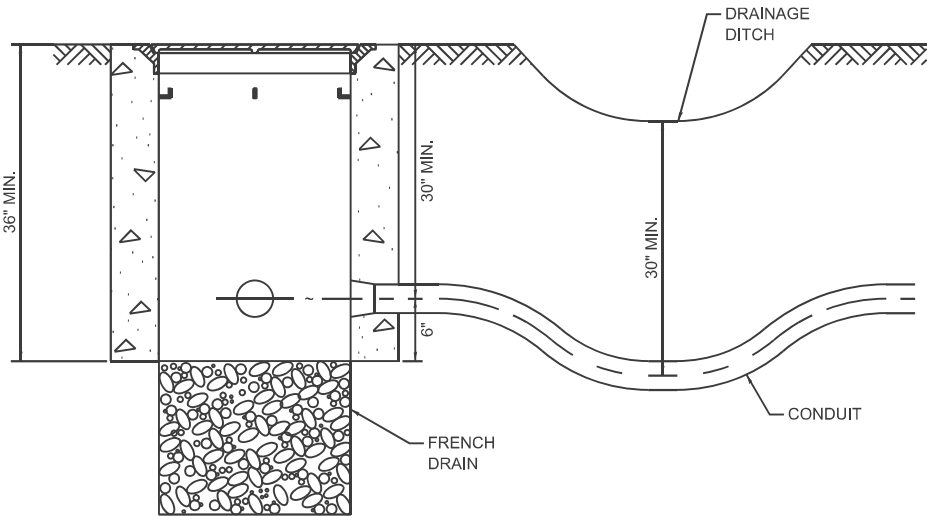
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	DRAWN - IP	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - NB/KK	REVISED -
PLOT DATE = 12/16/2025	DATE - 10/15/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

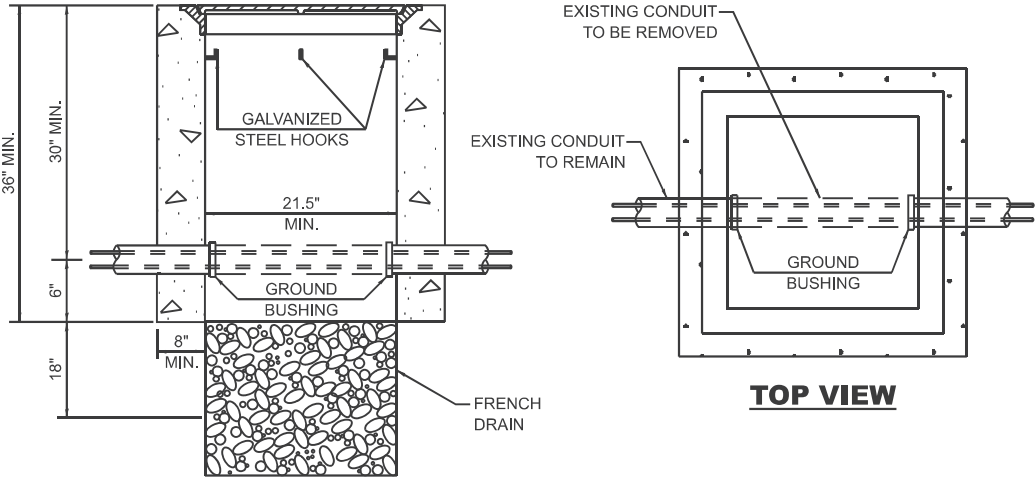
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			60	11
TS-01		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



NOTES:

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

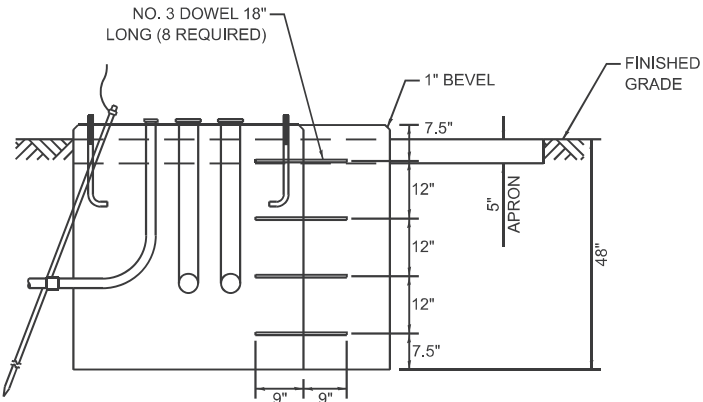
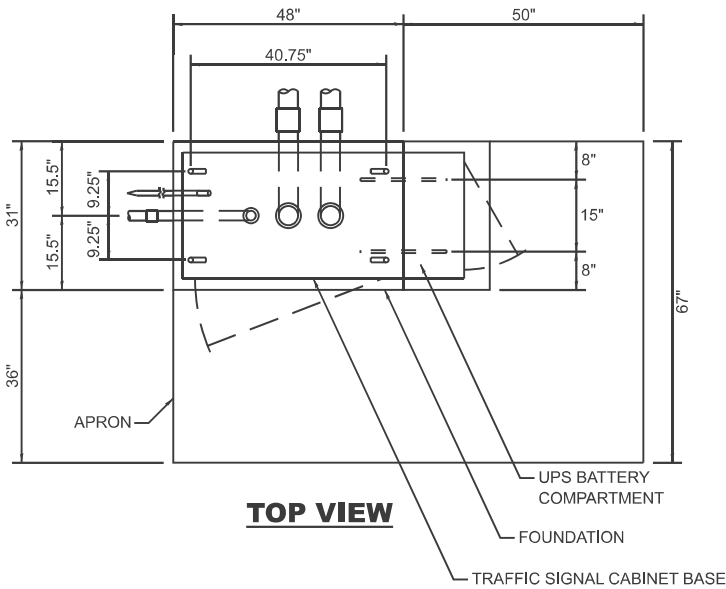
HANDHOLE WITH MINIMUM CONDUIT DEPTH



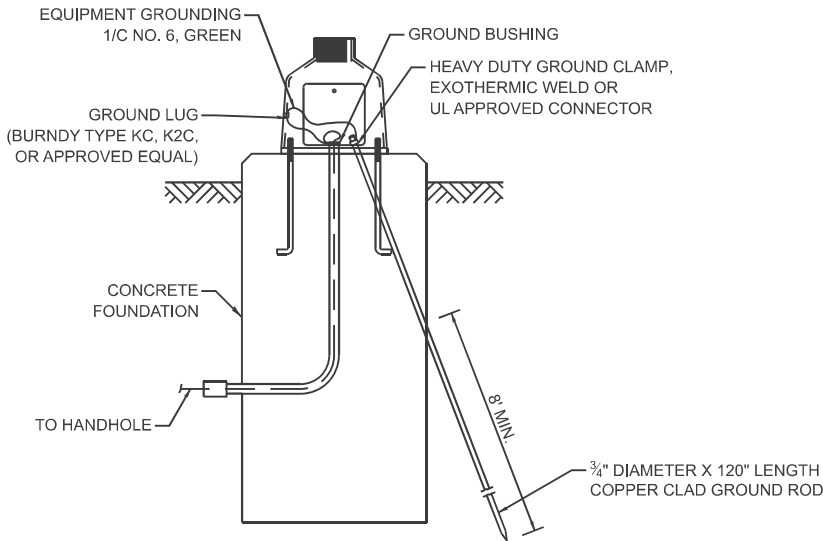
NOTES:

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

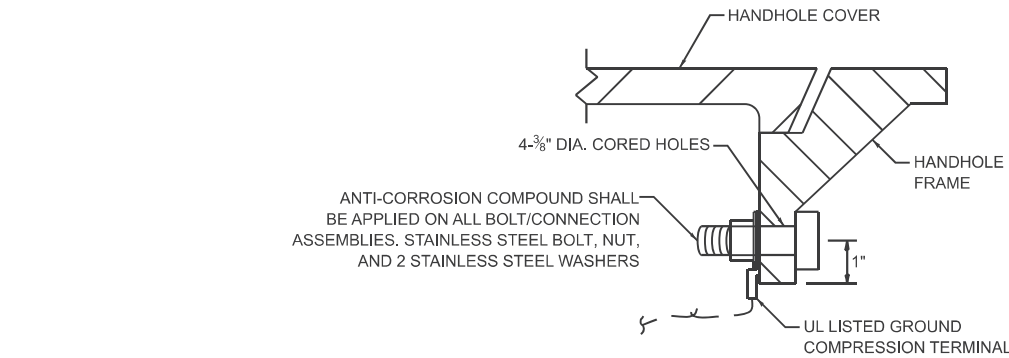
HANDHOLE TO INTERCEPT EXISTING CONDUIT



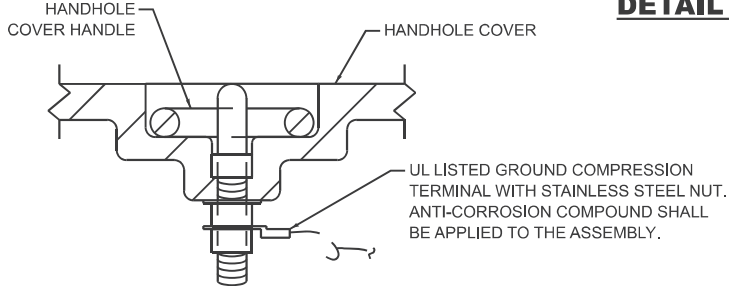
MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION



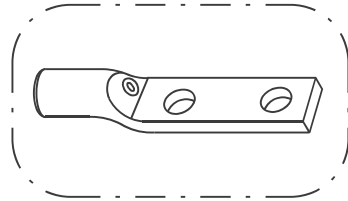
MAST ARM / POST GROUNDING DETAIL



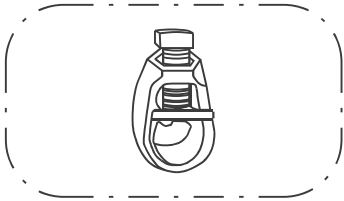
DETAIL A



DETAIL B



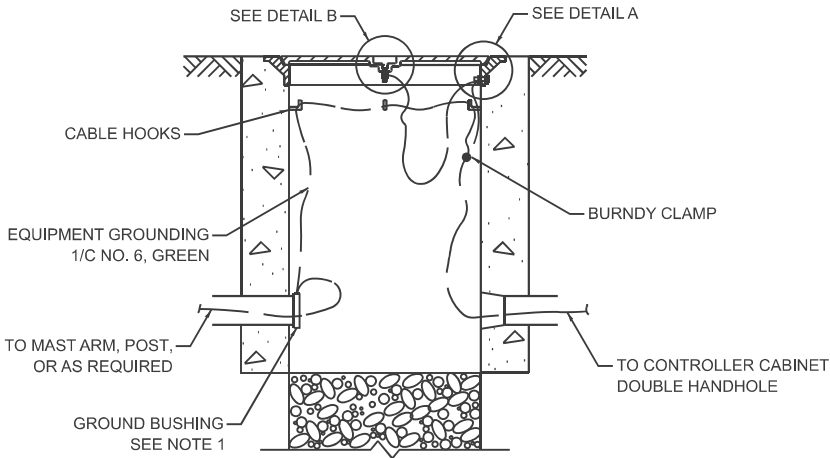
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" HEAVY-DUTY GROUND ROD CLAMP BRONZE OR COPPER, UL APPROVED (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

- 1. CONDUIT THAT HAS BEEN DRILLED INTO AN EXISTING HANDHOLE WILL REQUIRE A GROUND BUSHING FOR THE CONDUIT TO BE PROPERLY GROUNDING.
- 2. GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' OF SLACK SHALL BE PROVIDED IN SINGLE AND DOUBLE HANDHOLES. 5' OF SLACK SHALL BE PROVIDED BETWEEN THE FRAME AND COVER.



HANDHOLE GROUNDING DETAIL

MODEL: TS-01f [Sheet]
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DRAWN	- IP	REVIS	-
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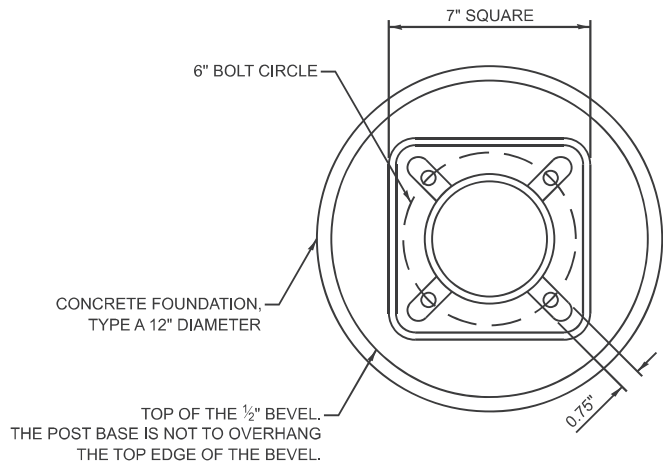
REVIS	-
REVIS	-
REVIS	-
REVIS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

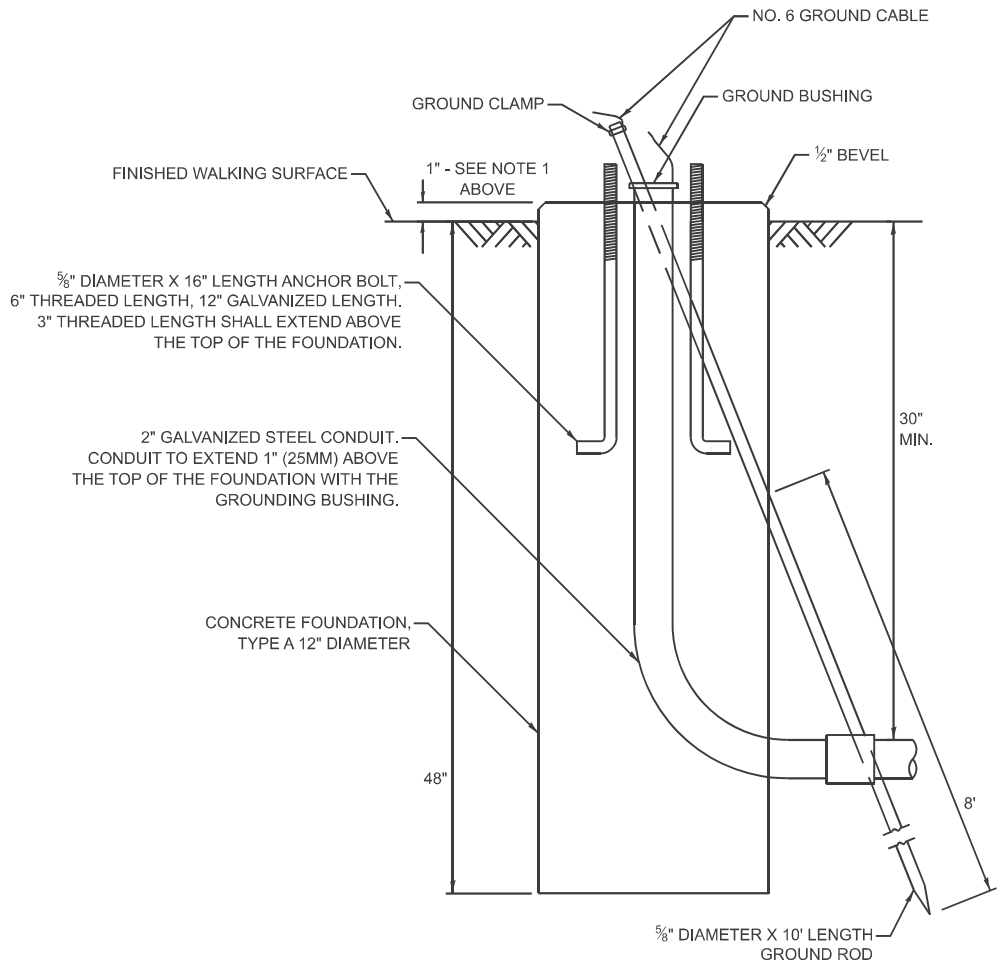
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			60	12
TS-01		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		



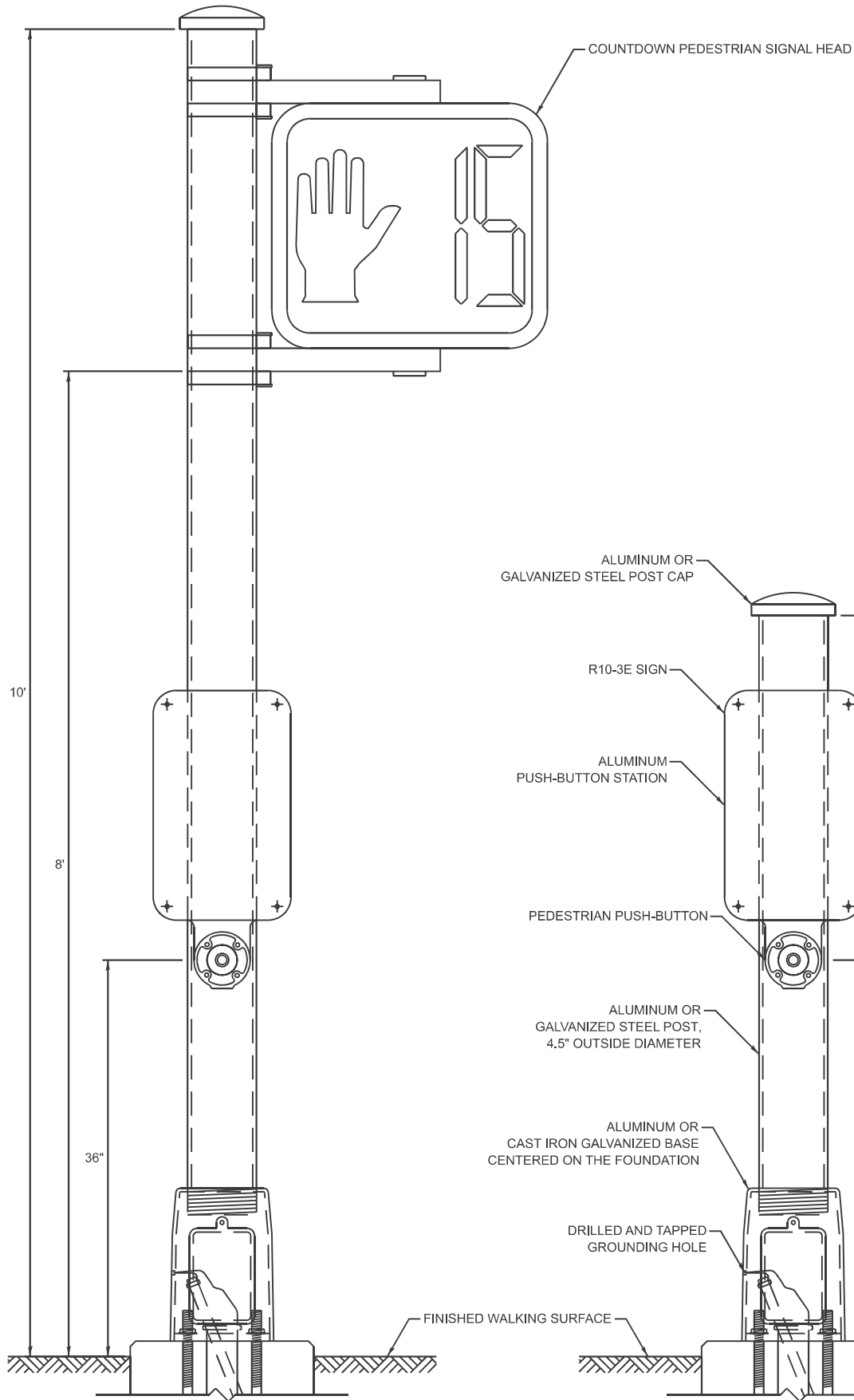
BOLT PATTERN

NOTES:

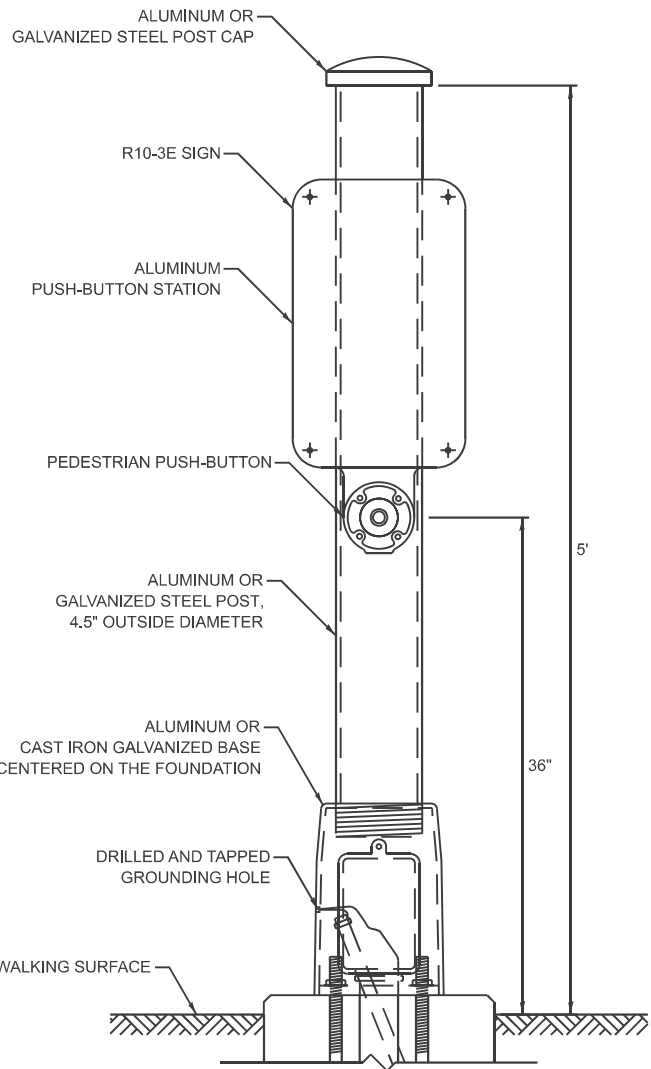
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN A SIDEWALK CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE SIDEWALK CURB.



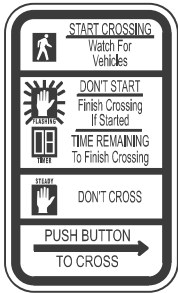
**CONCRETE FOUNDATION,
TYPE A 12-INCH DIAMETER**



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



R10-3E
9" X 15"



W10-1101
18" X 24"

SIGN NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. WHEN SIGN R10-3E IS INSTALLED AT MEDIANS WHERE ONLY ONE PUSH-BUTTON IS BEING USED FOR BOTH DIRECTIONS, THE ARROW SHALL BE BI-DIRECTIONAL.
3. SIGN W10-1101 IS REQUIRED FOR EACH PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS.

MODEL: TS-01a [Sheet]
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	DRAWN - IP	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - NB/KK	REVISED -
PLOT DATE = 12/16/2025	DATE - 10/15/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

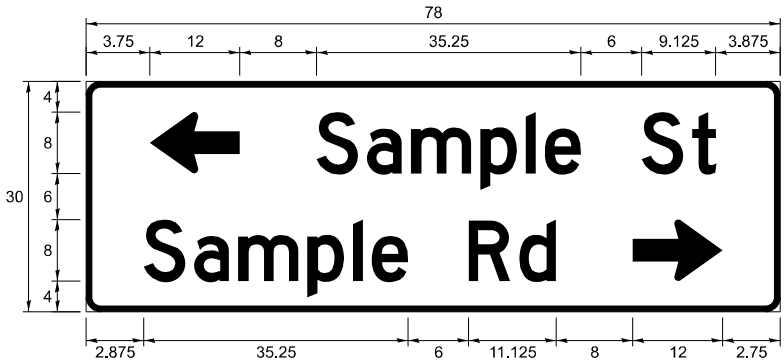
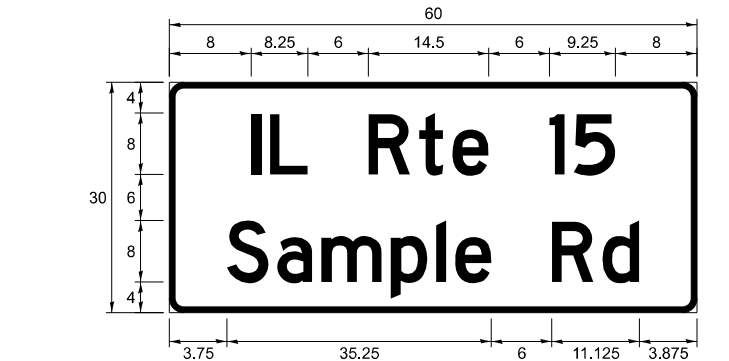
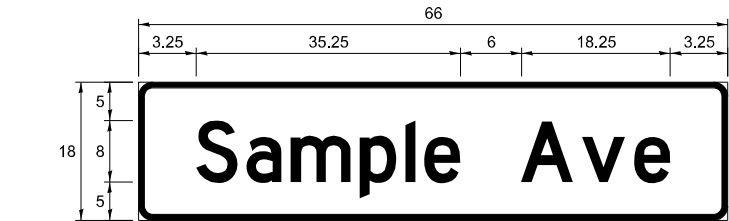
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			60	13
TS-01		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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

COMMON STREET NAME ABBREVIATIONS

NAME	ABBREVIATION	LENGTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15	18.25
BOULEVARD	Blvd	17.125	20
CIRCLE	Cir	11.125	13
COURT	Ct	8.25	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22
ILLINOIS	IL	7	8.25
LANE	Ln	9.125	10.75
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.75
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.5
STREET	St	8	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.75	9.125
UNITED STATES	US	10.375	12.25

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 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 SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. THE SPACING BETWEEN THE LEFT OR RIGHT ARROW AND THE ADJACENT WORD SHOULD BE 8", BUT MAY BE REDUCED TO 6" 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.
- THE PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE THE SERIES "D" ALPHABET ON A ONE-LINE SIGN THAT IS 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 ONE-LINE 8'-0" SIGN, A 30" HEIGHT TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION (I.E. STREET, AVENUE, ETC.) SHALL 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 REQUIREMENTS 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:

- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA

- WESTERN REMAC, INC.
WOODRIDGE, IL

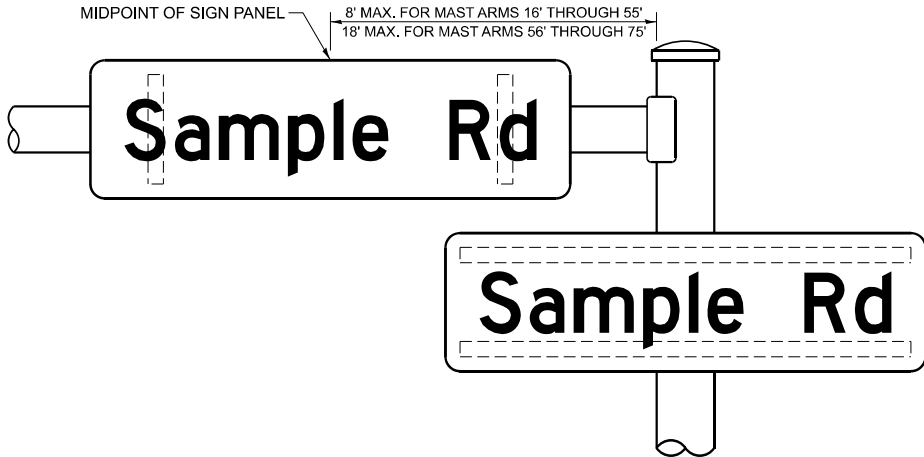
PARTS LISTING:

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

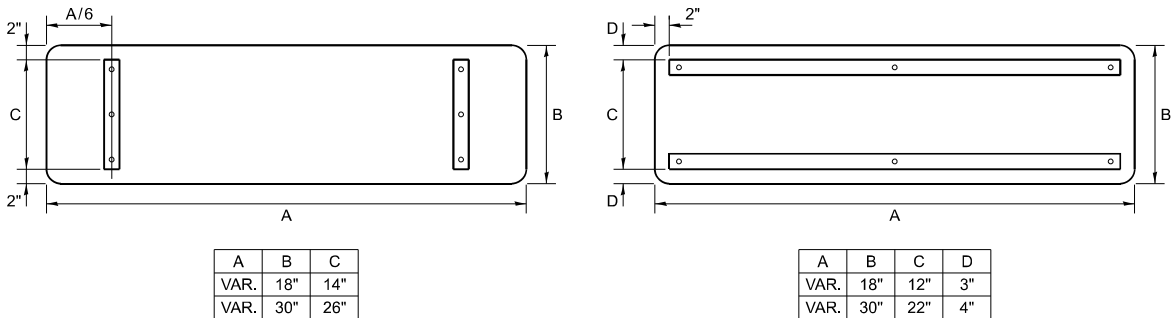
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATIONS

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

MEASUREMENTS BASED ON 8" UPPER CASE LETTER HEIGHT

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	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

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		DRAWN - IP	REVISED -
		CHECKED - NB/KK	REVISED -
		DATE - 10/15/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

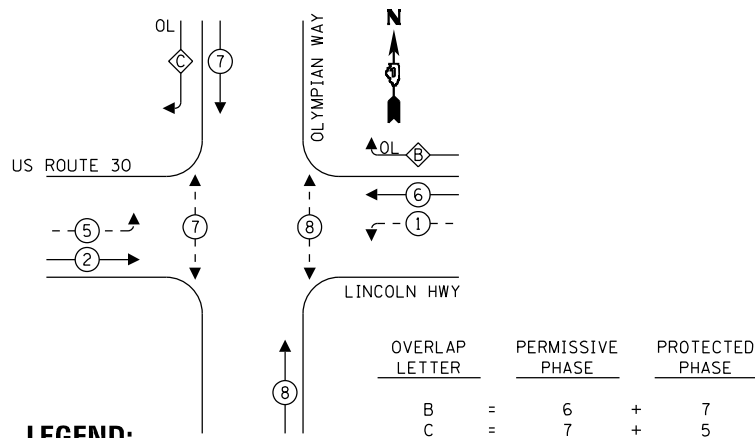
DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			60	14
TS-02		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		



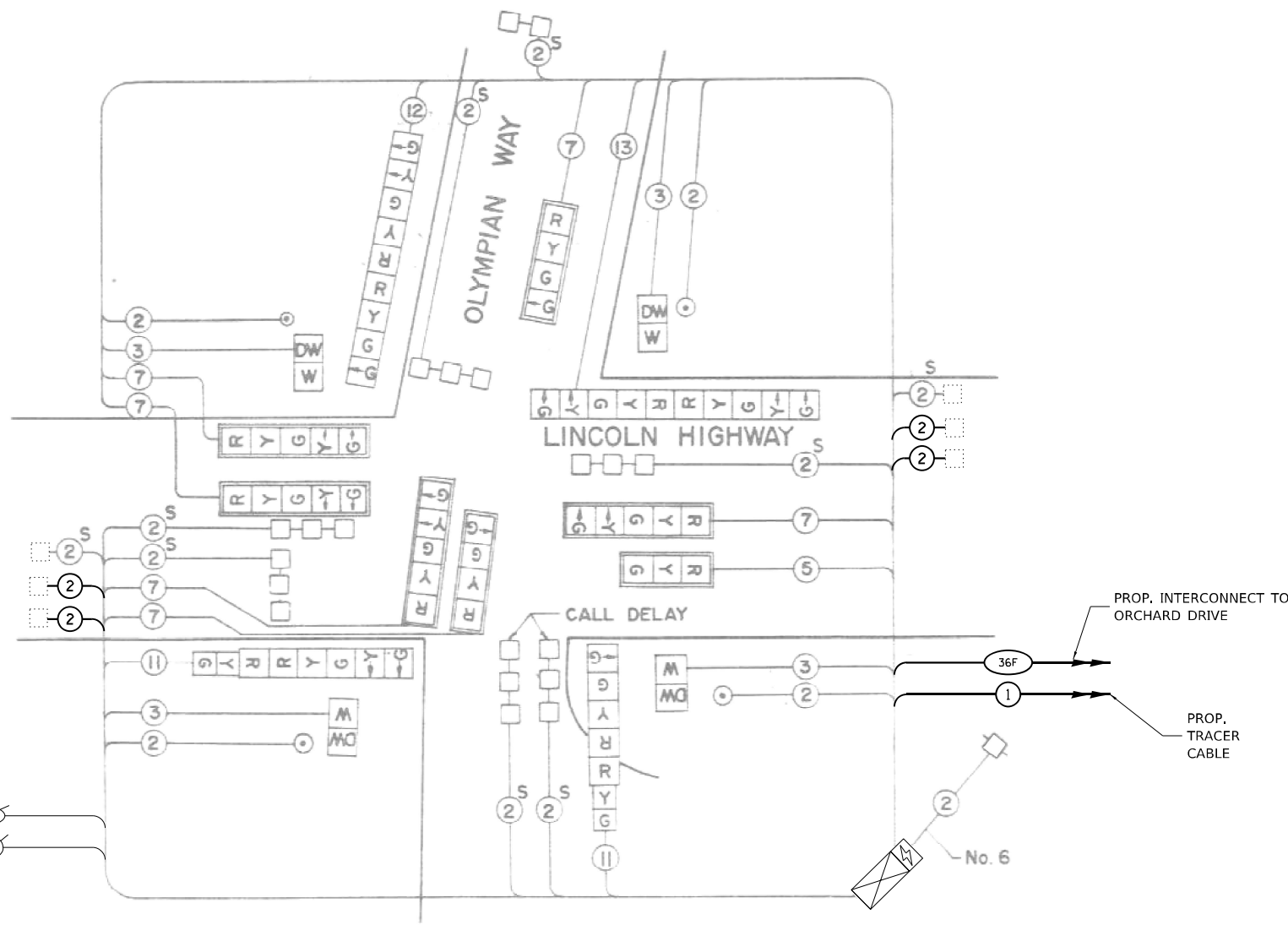
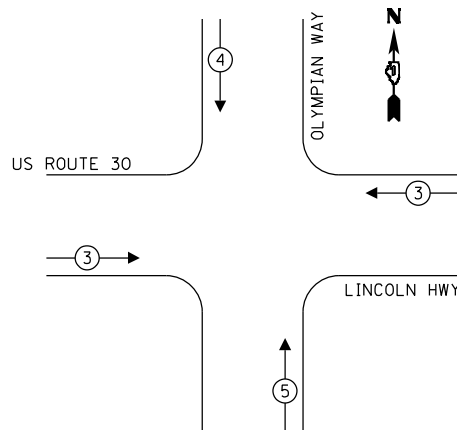
EXISTING CONTROLLER SEQUENCE



LEGEND:

- Protected Phase
- Protected/Permitted Phase
- Pedestrian Phase
- Overlap

EMERGENCY VEHICLE
PREEMPTION SEQUENCE



CABLE PLAN

TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT	TOTAL
SIGNAL HEAD	3-SECTION	3	11
	4-SECTION	4	14
	5-SECTION	8	13
PROGRAMMABLE	3-SECTION	-	22
	4-SECTION	-	32
	5-SECTION	-	28
PEDESTRIAN SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTIONRADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			428
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1033

ENERGY COSTS - BILLED TO:

IDOT DISTRICT 1 - 50%	MATTESON - 25%	OLYMPIA FIELDS - 25%
201 WEST CENTER COURT	4900 VILLAGE COMMONS	20040 GOVERNORS HIGHWAY
SCHAUMBURG, IL 60196	MATTESON, IL 60443	OLYMPIA FIELDS, IL 60461

ENERGY SUPPLY:

CONTACT:

PHONE:

COMPANY:

ACCOUNT NUMBER:

IDOT: 17201-51138
MATTESON: 59611-64004
OLYMPIA FIELDS: 02990-49102

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1530
INDUCTIVE LOOP DETECTOR	EACH	4

iteris

USER NAME = bfrank
PLOT SCALE = 100,0000' / in.
PLOT DATE = 5/4/2026

DESIGNED - TZ
DRAWN - TZ
CHECKED - BF
DATE - 5/4/26

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

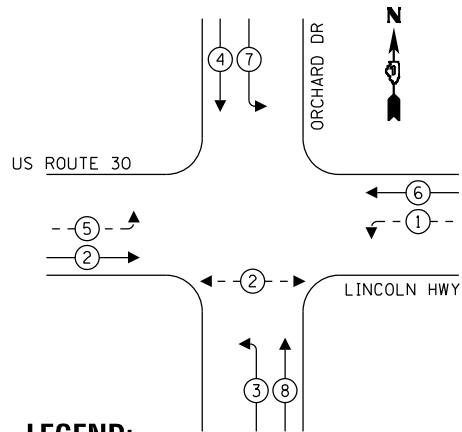
TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (LINCOLN HIGHWAY) AND OLYMPIAN WAY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	15
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 1390
ECON 53
FORMER ECON 54

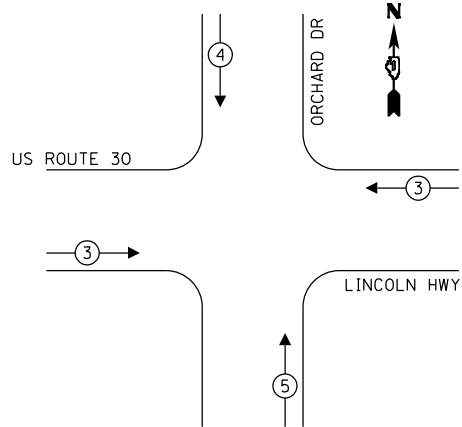
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

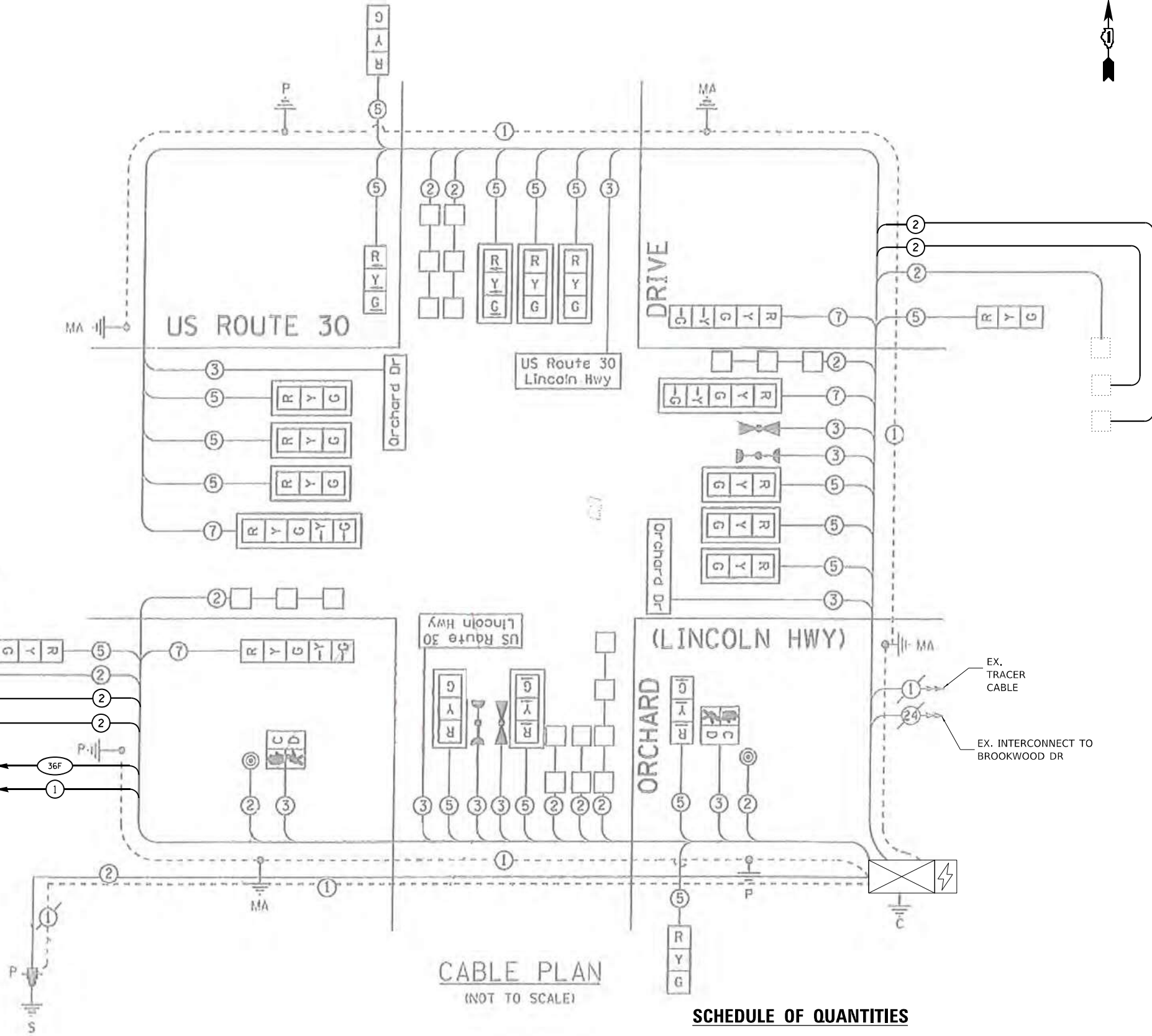
EMERGENCY VEHICLE
PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	17	11
	4-SECTION	-	14
	5-SECTION	4	13
PROGRAMMABLE	3-SECTION	-	22
	4-SECTION	-	32
	5-SECTION	-	28
PEDESTRIAN SIGNAL	2	15	30
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTIONRADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		444	
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		1529	

ENERGY COSTS - BILLED TO:
VILLAGE OF OLYMPIA FIELDS
20040 GOVERNORS HIGHWAY
OLYMPIA FIELDS, IL 60461

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: 02990-49102
METER NUMBER: _____



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION		UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION		EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR		FOOT	1677
INDUCTIVE LOOP DETECTOR		EACH	4

iteris

USER NAME = bfrank
PLOT SCALE = 100,0000' / in.
PLOT DATE = 5/4/2026

DESIGNED - TZ
DRAWN - TZ
CHECKED - BF
DATE - 5/4/26

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (LINCOLN HIGHWAY) AND ORCHARD DRIVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	16
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 1395
ECON 53



DRILL EXISTING HANDHOLE

OLYMPIAN WAY

APPROX. ROW

APPROX. ROW

APPROX. ROW

APPROX. ROW

US ROUTE 30
(LINCOLN HWY)

SP

APPROX. ROW

APPROX. ROW

1

3'-E-2-5"

940'-MULTI-DUCT, 3 WAY - 22MM(2),
1.25" SDR 11 (1) MICRODUCTS

NEW 36 (24SM/12MM) FIBER AND NEW TRACER CABLE
36 SM FIBER CABLE - 2075 FT
TRACER NO 14 1C - 1909 FT

MATCH LINE A

MATCH LINE A

US ROUTE 30
(LINCOLN HWY)

SP

INDIANA ST

96'-UC-4"

935'-MULTI-DUCT, 3 WAY - 22MM(2),
1.25" SDR 11 (1) MICRODUCTS

MATCH LINE B

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS Inc\Systems - Midwest - Chicago Construction\DOT_PTB_204\010 D1_APS PROJECT MANAGEMENT\12369 - WO 11 - Various Interconnect\CADD\Sheets\0162W91_INT_AInterconnect_Plan.dgn

iteris

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	DRAWN - BF	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 5/4/2026	DATE - 5/4/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION A
US RTE 30 (LINCOLN HIGHWAY) - OLYMPIAN WAY TO ORCHARD DRIVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	17
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	

ECON 53



975'-MULTI-DUCT, 3 WAY - 22MM(2),
1.25\" SDR 11 (1) MICRODUCTS

NEW 36 (24SM/12MM) FIBER AND NEW TRACER CABLE
36 SM FIBER CABLE - 1560 FT
TRACER NO 14 1C - 1395 FT

DRILL EXISTING HANDHOLE

254'-E-2\"

131'-E-4\"

4'-E-4-4\"

MODEL: Default
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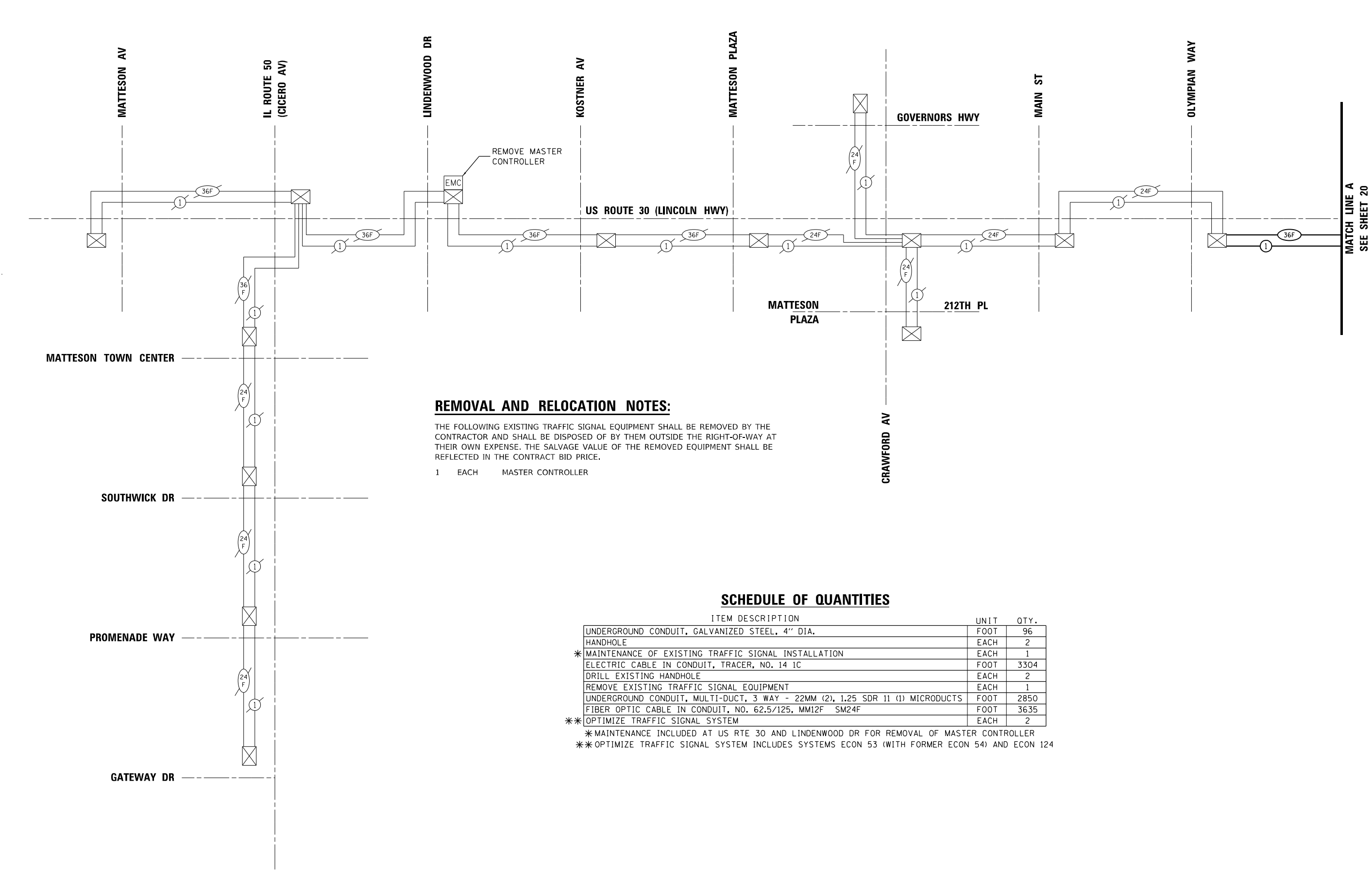
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PLOT DATE = 5/4/2026	DATE - 5/4/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION A			
US RTE 30 (LINCOLN HIGHWAY) - OLYMPIAN WAY TO ORCHARD DRIVE			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	18
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	

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ECON 53
FORMER ECON 54



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PLOT DATE = 5/4/2026	DATE - 5/4/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC – LOCATION A
IDOT SYSTEMS 53 AND 54

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	19
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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MATCH LINE A
SEE SHEET 19

ORCHARD DR

BROOKWOOD DR

WESTERN AV

HILLTOP AV

DIVISION ST

ASHLAND AV

US ROUTE 30 (LINCOLN HWY)

ILLINOIS ST

16TH ST

NORTH ST

BEACON BLVD

NORWOOD SQUARE

NORWOOD BLVD

26TH ST

LAKEWOOD BLVD

ECON 124



ECON 53,124



USER NAME	= bfunk
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 3/9/2026

DESIGNED	-	BF
DRAWN	-	BF
CHECKED	-	AG
DATE	-	3/9/26

REVISED	-
REVISED	-
REVISED	-
REVISED	-

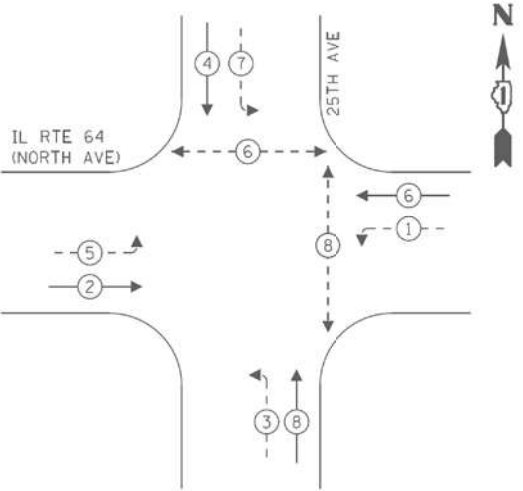
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC – LOCATION A
IDOT SYSTEMS 53 AND 54

SCALE: SHEET OF SHEETS STA. TO STA.

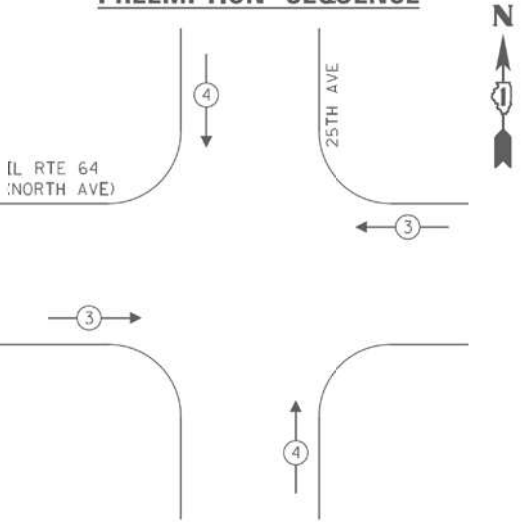
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	20
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	

EXISTING AND PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ← (⊙) → PROTECTED PHASE
 - ← (⊙) - - PROTECTED/PERMITTED PHASE
 - ← (⊙) → PEDESTRIAN PHASE
 - ← (⊙) CL → OVERLAP

EXISTING AND PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE



TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD I OR 3-SECTION	14	11	154
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			528
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1133

ENERGY COSTS TO:

VILLAGE OF MELROSE PARK
1000 N 25TH AVE
MELROSE PARK, IL 60160

ENERGY SUPPLY: CONTACT: JOE STACHO
PHONE: 630-424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 08190-18007
METER NUMBER:

iteris

USER NAME = bfunck
PLOT SCALE = 100,0000' / in.
PLOT DATE = 3/9/2026

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DATE - 3/9/26

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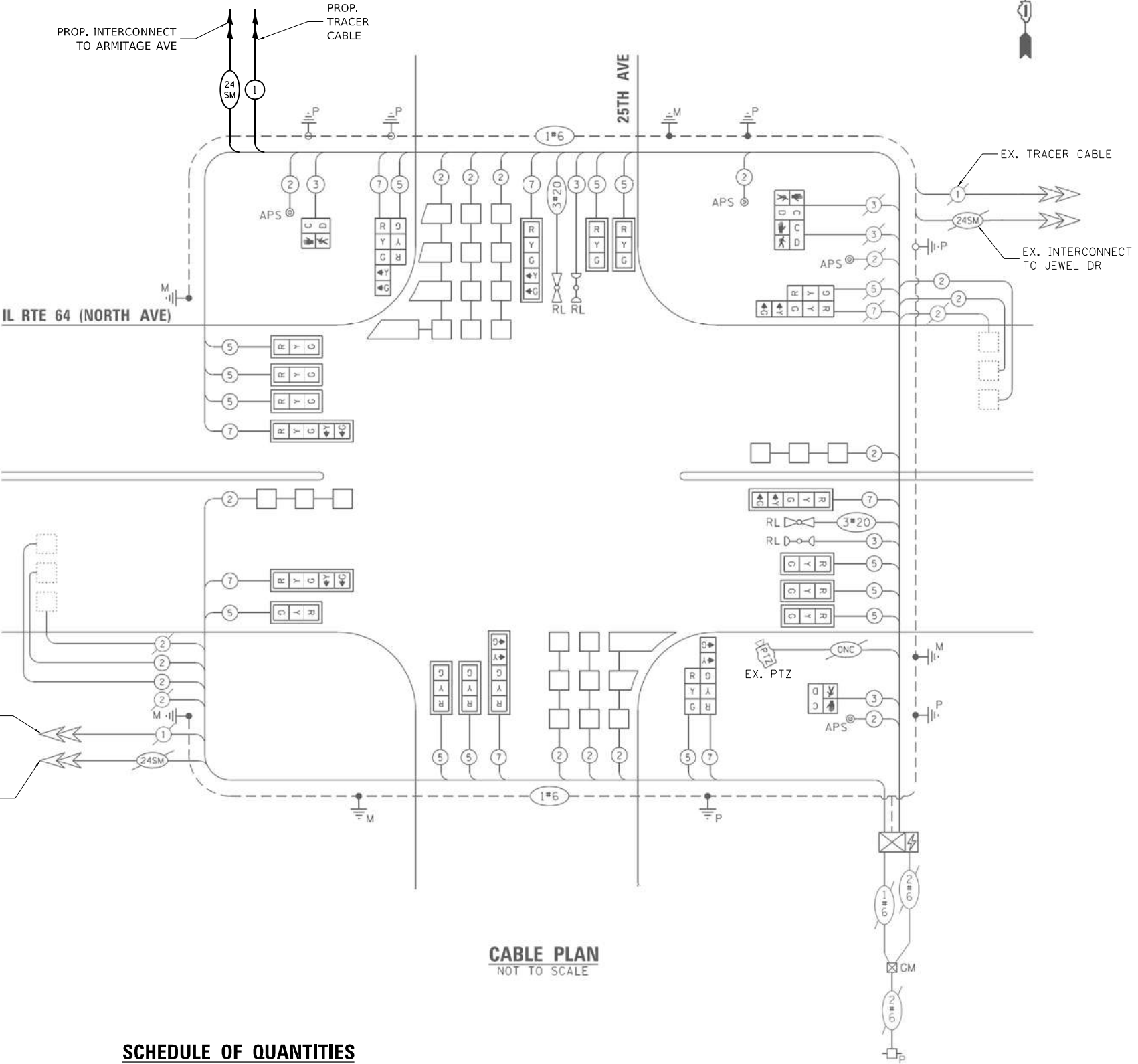
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
IL ROUTE 64 (NORTH AVENUE) AND 25TH AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	21
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 3020
IDOT CENTRICS
SECTION 100

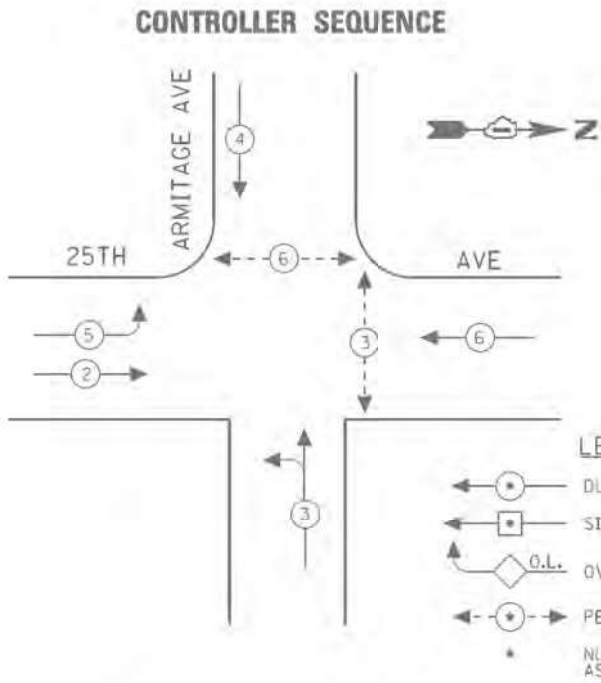


CABLE PLAN
NOT TO SCALE

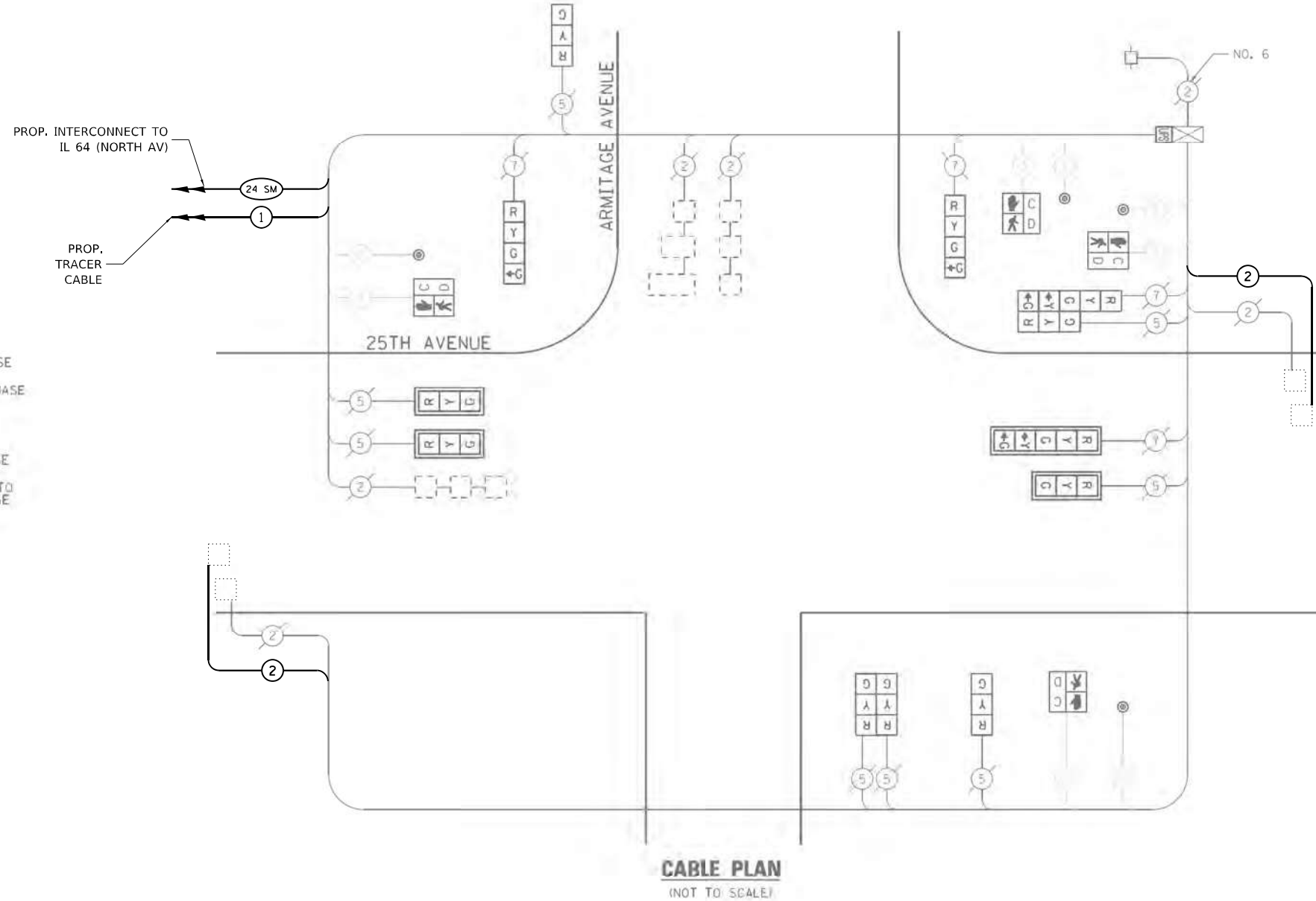
SCHEDULE OF QUANTITIES

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

MODEL: Default
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EXISTING PHASE DESIGNATION DIAGRAM



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND. LED	%OPERATION	
SIGNAL (RED)	12	17	0.50	102
(YELLOW)	12	25	0.25	75
(GREEN)	14	15	0.25	52.5
ARROW	4	12	0.10	4.8
PED. SIGNAL	4	25	.00	100
CONTROLLER	1	100	.00	100
ILLUM. SIGN			0.05	
FLASHER		25	0.50	
ENERGY COSTS TO:				TOTAL = 434.3
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096				
ENERGY SUPPLY CONTACT: XXX XXXXX				
PHONE: (XXX) XXX-XXXX				
COMPANY: COMMONWEALTH EDISON				

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	711
INDUCTIVE LOOP DETECTOR	EACH	4
* * CENTRACS LICENSE EXPANSION	EACH	1
NETWORK SWITCH, ACCESS	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
* * CENTRACS LICENSE TO BE PROVIDED BY IDOT TRAFFIC		

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - BF	REVISED -
PLOT DATE = 5/4/2026	CHECKED - AG	REVISED -
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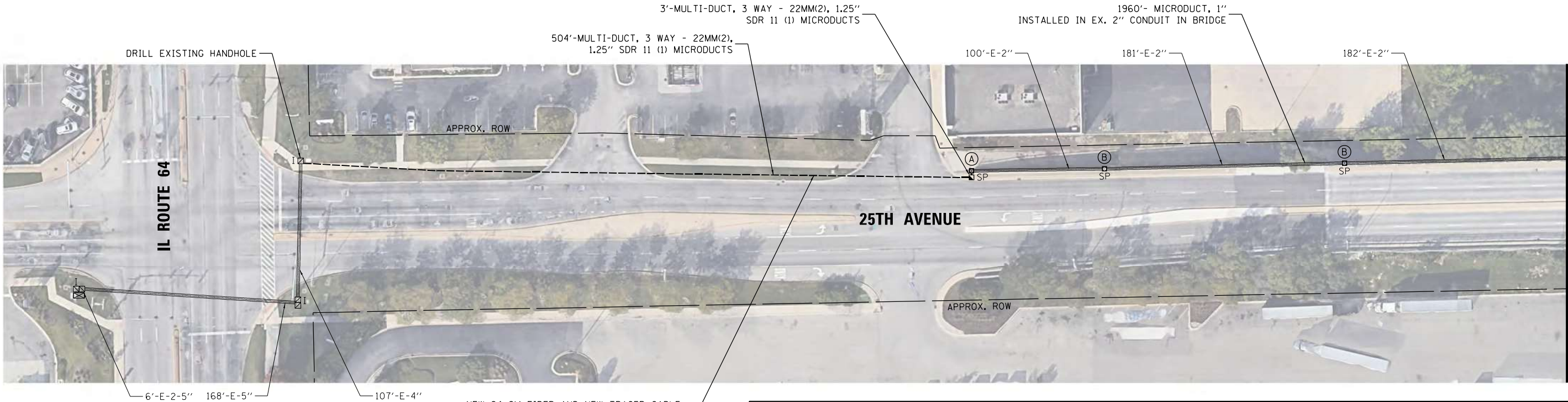
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
25TH AVENUE AND ARMITAGE AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	22
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 22165
IDOT CENTRACS
SECTION 100



- NOTES:**
1. CONTRACTOR SHALL ROD AND CLEAN THE EXISTING CONDUIT ON BRIDGE TO VERIFY EXISTING CONDUIT IS USABLE, THIS SHALL BE COMPLETED PRIOR TO ORDERING JUNCTION BOXES AND MICRODUCT, IF THE CONDUIT IS FOUND TO BE UNUSABLE, THE CONTRACTOR SHALL PROCEED WITH AN ALTERNATIVE DESIGN UTILIZING A CELLULAR MODEM INSTALLED AT ARMITAGE AVE AND 25TH AVE. THIS ALTERNATIVE DESIGN SHALL BE APPROVED BY THE ENGINEER AND THE IDOT D1 TRAFFIC SIGNAL ENGINEER.
2. IF BRIDGE CONDUIT IS FOUND USABLE, CONTRACTOR SHALL INSTALL 1" MICRODUCT IN THE EXISTING 2" CONDUIT ON BRIDGE, PROPOSED FIBER SHALL BE PULLED THROUGH THE 1" MICRODUCT.



- (A) STAINLESS STEEL JUNCTION BOX
ATTACHED TO STRUCTURE 8"x8"x6"
- (B) STAINLESS STEEL JUNCTION BOX
ATTACHED TO STRUCTURE 20"x20"x8"

IDOT CENTRACS
SECTION 100

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - AG	REVISED -
PLOT DATE = 5/5/2026	DATE - 5/4/26	REVISED -

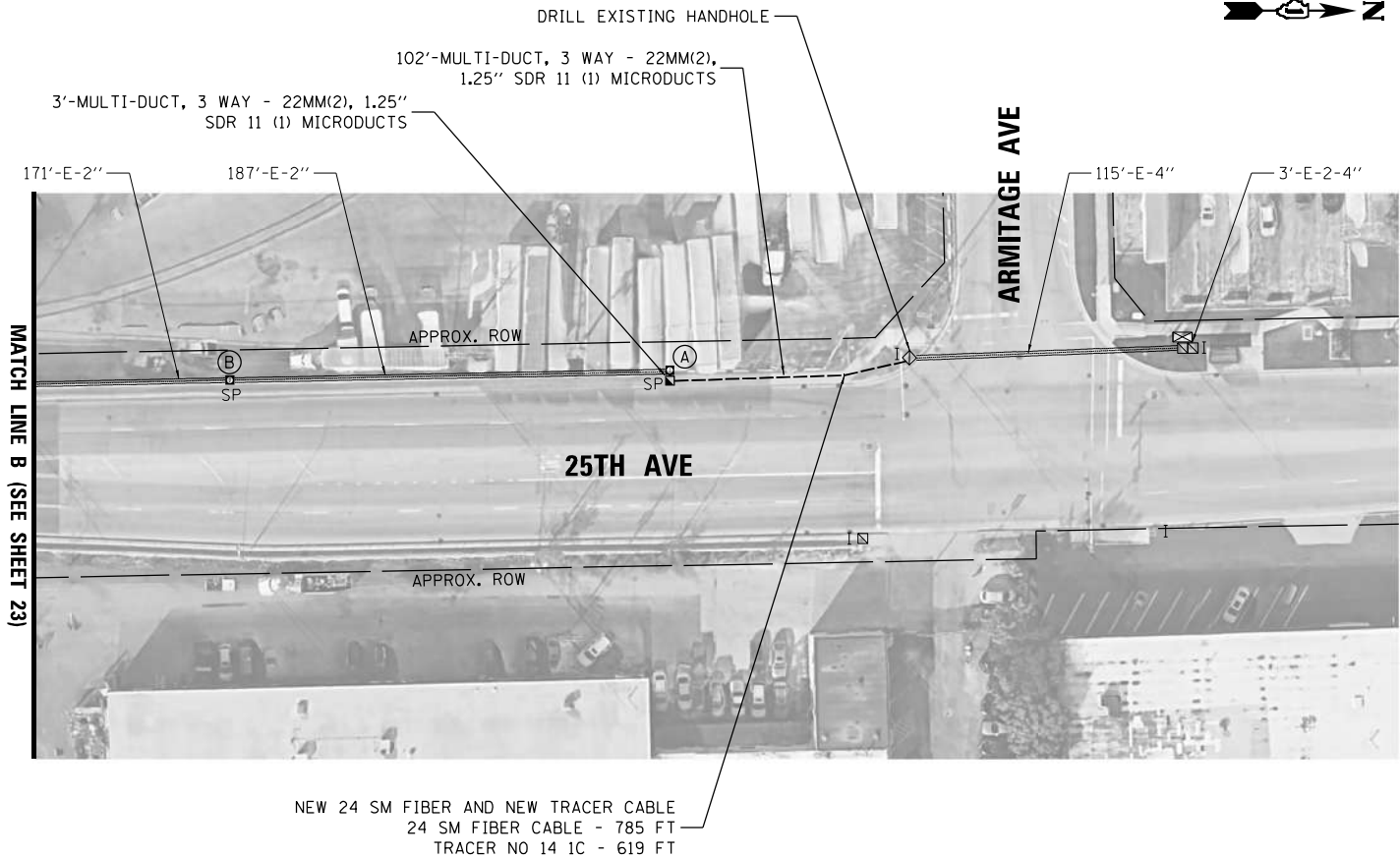
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION B
25TH AVE - IL ROUTE 64 TO ARMITAGE AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	23
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

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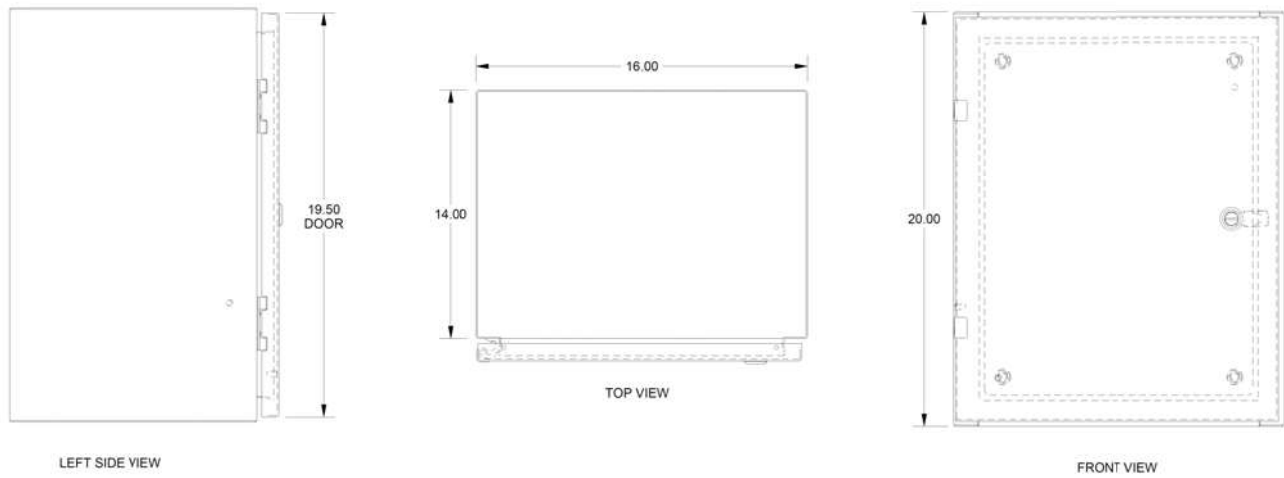


NOTES:

- CONTRACTOR SHALL ROD AND CLEAN THE EXISTING CONDUIT ON BRIDGE TO VERIFY EXISTING CONDUIT IS USABLE. THIS SHALL BE COMPLETED PRIOR TO ORDERING JUNCTION BOXES AND MICRODUCT. IF THE CONDUIT IS FOUND TO BE UNUSABLE, THE CONTRACTOR SHALL PROCEED WITH AN ALTERNATIVE DESIGN UTILIZING A CELLULAR MODEM INSTALLED AT ARMITAGE AVE AND 25TH AVE. THIS ALTERNATIVE DESIGN SHALL BE APPROVED BY THE ENGINEER AND THE IDOT D1 TRAFFIC SIGNAL ENGINEER.
- IF BRIDGE CONDUIT IS FOUND USABLE, CONTRACTOR SHALL INSTALL 1" MICRODUCT IN THE EXISTING 2" CONDUIT ON BRIDGE. PROPOSED FIBER SHALL BE PULLED THROUGH THE 1" MICRODUCT.

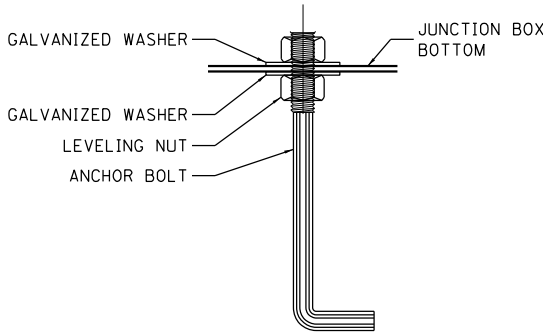
- (A) STAINLESS STEEL JUNCTION BOX
ATTACHED TO STRUCTURE 8"x8"x6"
- (B) STAINLESS STEEL JUNCTION BOX
ATTACHED TO STRUCTURE 16"x14"x20"

JUNCTION BOX DETAIL



CONSTRUCTION NOTES

- CONTRACTOR SHALL REMOVE PROTECTIVE PLATES AND STORE SAFELY UNTIL REINSTALLED.
- CONTRACTOR SHALL VERIFY THE FIT OF THE PROPOSED JUNCTION BOX PRIOR TO ORDERING. IF PROPOSED JUNCTION BOX SIZE WILL NOT WORK, CONTRACTOR SHALL PROPOSE ALTERNATIVE BOX DESIGN FOR APPROVAL BY THE ENGINEER.
- CONTRACTOR SHALL DRILL BOTTOM OF JUNCTION BOX TO MATCH EXISTING BOLT PATTERN ON BRIDGE PARAPET WALL.
- CONTRACTOR SHALL CUT BOTTOM OF BOX TO ALLOW EXISTING CONDUIT TO ENTER THE BOX. THIS OPENING SHALL BE AS SMALL AS POSSIBLE. EACH JUNCTION BOX LOCATION HAS VARIATION IN EXISTING CONDUIT LAYOUT. EACH BOX SHALL BE MEASURED AND CUT FOR SPECIFIC LOCATION.
- CONTRACTOR SHALL PLACE A NEW GALVANIZED NUT AND WASHER ON EACH EXISTING ANCHOR BOLT PRIOR TO THE BOX FOR LEVELING.
- INSTALL JUNCTION BOX OVER EXISTING ANCHOR BOLTS. SECURE JUNCTION BOX WITH A NEW GALVANIZED WASHER AND NUT ON THE INSIDE OF THE BOX.
- IF GAP EXISTS UNDER JUNCTION BOX, PROTECTIVE MESH SHALL BE INSTALLED AROUND BASE TO PREVENT RODENT ACCESS. COST OF THE MESH SHALL BE INCLUDED IN THE COST OF THE JUNCTION BOX. THE NEED FOR MESH SHALL BE DETERMINED BY THE ENGINEER.
- REINSTALL EXISTING PROTECTIVE PLATES. CONTRACTOR SHALL USE NEW GALVANIZED BOLTS, NUTS, WASHERS, AND ANY OTHER MOUNTING HARDWARE REQUIRED. THE COST OF THE MOUNTING HARDWARE SHALL BE INCLUDED IN THE COST OF THE JUNCTION BOX.



PROTECTIVE PLATES
(SEE NOTES 1 AND 8)



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	DRAWN - BF	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - AG	REVISED -
PLOT DATE = 5/11/2026	DATE - 5/11/26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN - LOCATION B
25TH AVE - IL ROUTE 64 TO ARMITAGE AVE**

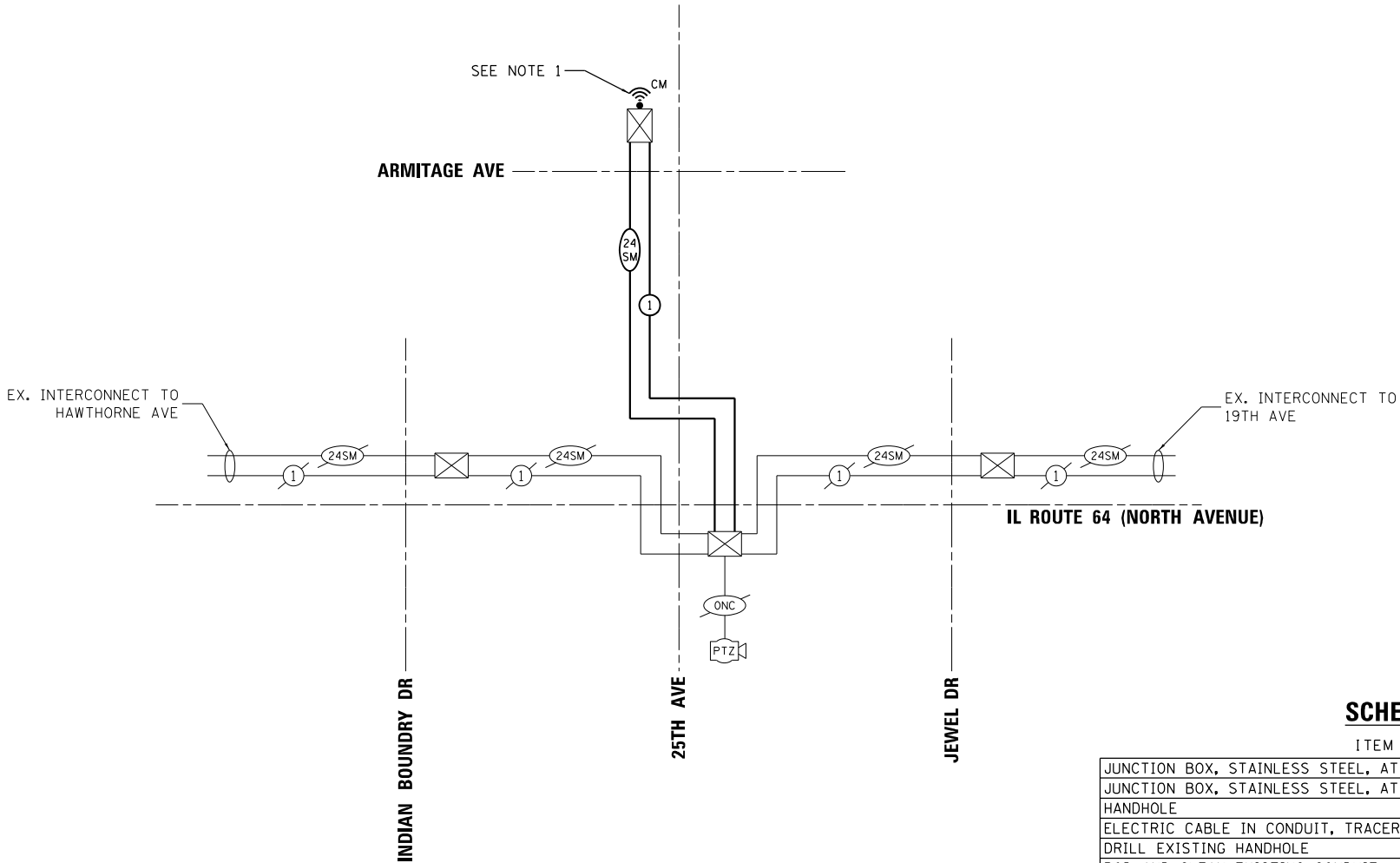
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	24
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

**IDOT CENTRACS
SECTION 100**

NOTES:

1. IF EXISTING BRIDGE CONDUIT IS FOUND TO BE UNUSABLE, THE CONTRACTOR SHALL PROCEED WITH AN ALTERNATIVE DESIGN UTILIZING A CELLULAR MODEM INSTALLED AT ARMITAGE AVE AND 25TH AVE. THIS ALTERNATIVE DESIGN SHALL BE APPROVED BY THE ENGINEER AND THE IDOT D1 TRAFFIC SIGNAL ENGINEER.



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8" X 8" X 6"	EACH	2
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 20" X 20" X 8"	EACH	10
HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3040
DRILL EXISTING HANDHOLE	EACH	2
ROD AND CLEAN EXISTING CONDUIT	FOOT	1960
* CELLULAR MODEM	EACH	1
UNDERGROUND CONDUIT, MULTI-DUCT, 3 WAY - 22MM (2), 1.25 SDR 11 (1) MICRODUCTS	FOOT	618
FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	3406
** RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
UNDERGROUND CONDUIT, SINGLE MICRODUCT, 1" DIA.	FOOT	1960

* TO BE USED FOR ALTERNATIVE DESIGN ONLY. TO BE APPROVED BY THE ENGINEER.
** RE-OPTIMIZE PAY ITEM SHALL INCLUDE THE FOLLOWING SIGNALS:
- 25TH AVE AND ARMITAGE AVE

IDOT CENTRACS
SECTION 100



USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
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PLOT DATE = 5/11/2026	DATE - 5/11/26	REVISED -

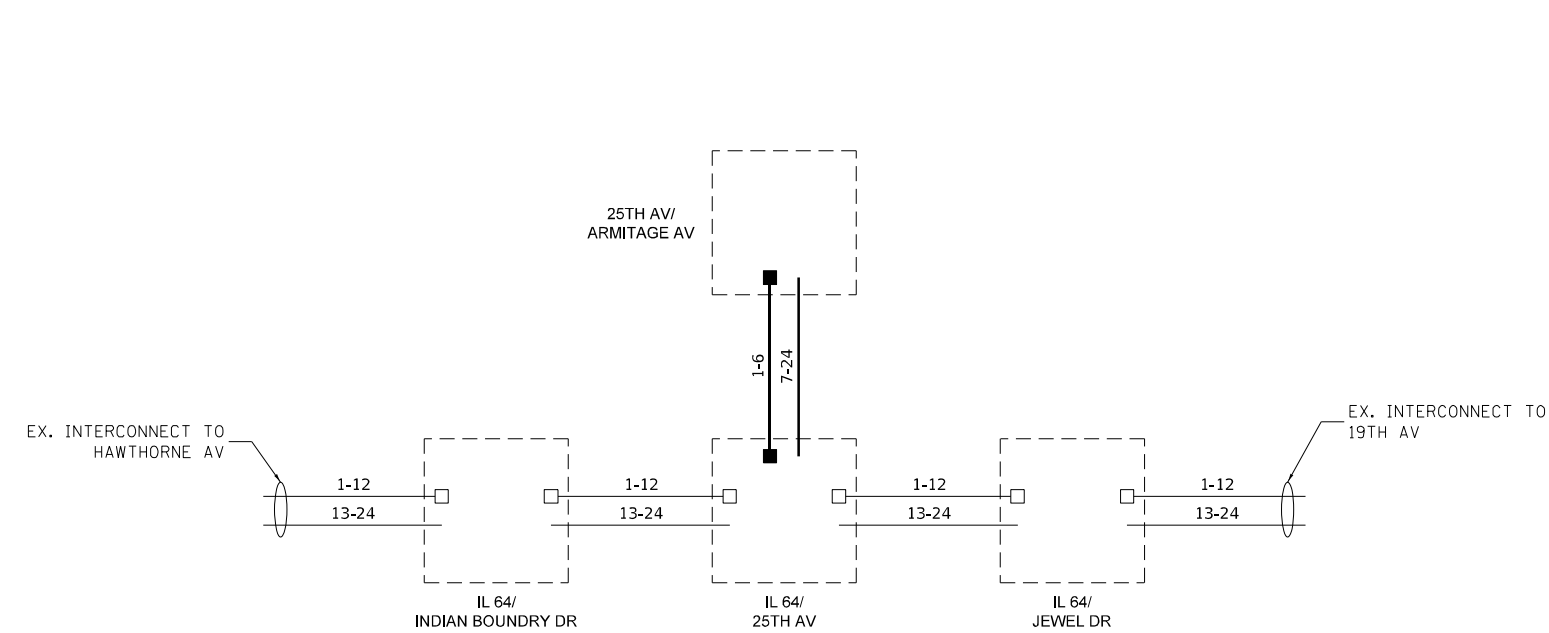
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
IDOT SYSTEM 100

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	25
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

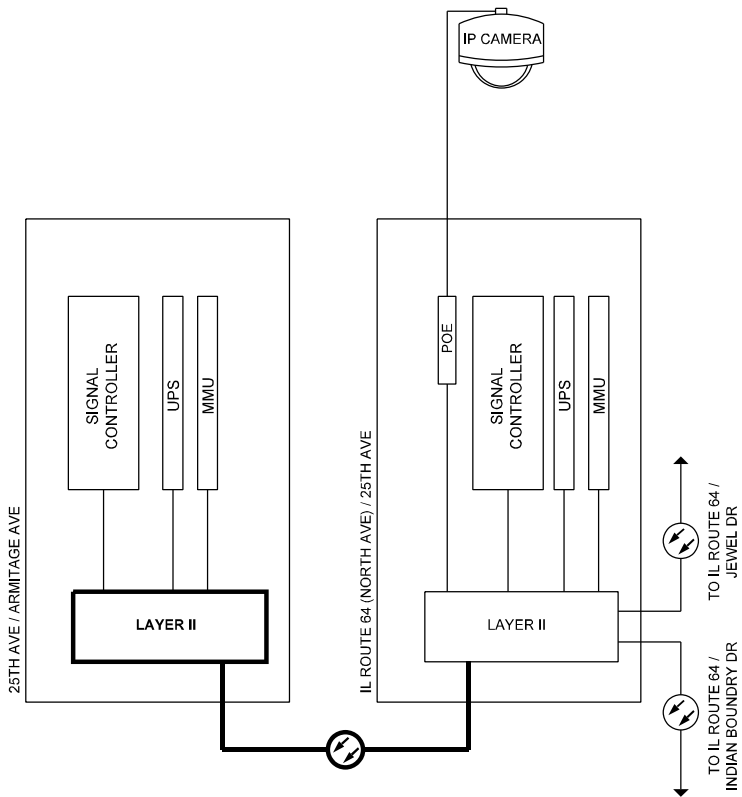
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SCHEDULE OF FIBER TERMINATION AND SPLICING

INTERSECTION / LOCATION	INCLUDED IN COST OF NEW FIBER		X1400217	X8710317
	# OF TERMINATIONS	# OF SPLICES	TERMINATE FIBER IN CABINET	SPLICE FIBER IN CABINET
IL ROUTE 64 AND 25TH AVE	6		EACH	EACH
25TH AVE AND ARMITAGE AVE	6			

- EXISTING SM FIBER
- EXISTING CONNECTOR / EXISTING SM FIBER
- PROPOSED SM FIBER
- NEW CONNECTOR / PROPOSED SM FIBER

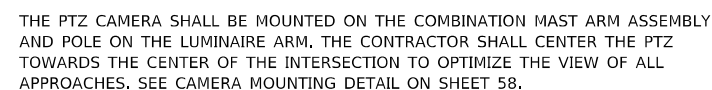
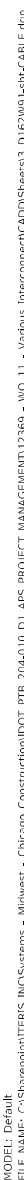


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	DRAWN - BF	REVISED -
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PLOT DATE = 5/11/2026	DATE - 5/11/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING DIAGRAM AND CABINET DETAIL INTERCONNECT B			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	26
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

**iteris®**

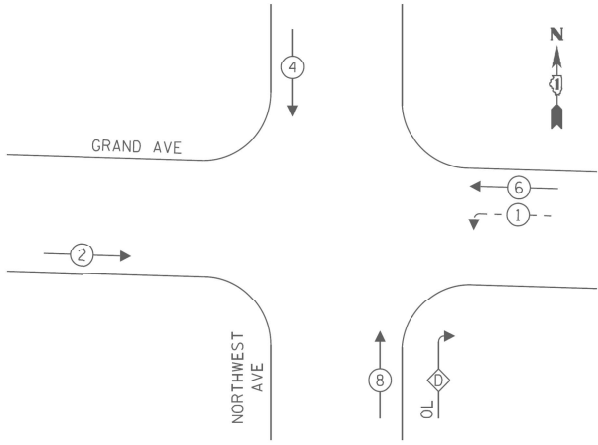
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	DRAWN = BF	REVISED =
PLOT SCALE = 100,0000' / in.	CHECKED = BF	REVISED =
PLOT DATE = 3/23/2026	DATE = 3/19/26	REVISED =

**TRAFFIC SIGNAL MODIFICATION PLAN
GRAND AVENUE AND NORTHWEST AVENUE**

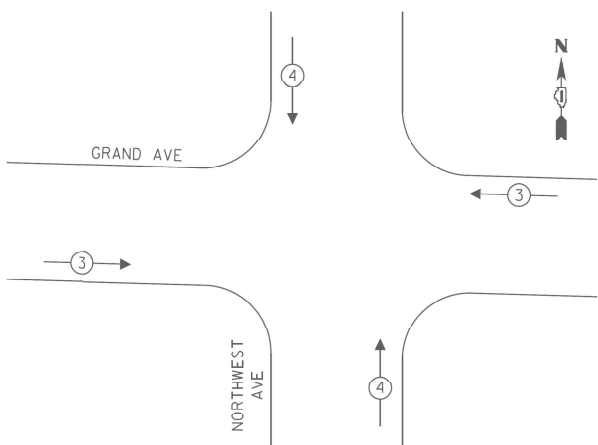
SCALE:		SHEET OF SHEETS		STA.	TO STA.	ILLINOIS FED. AID PROJECT	
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PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



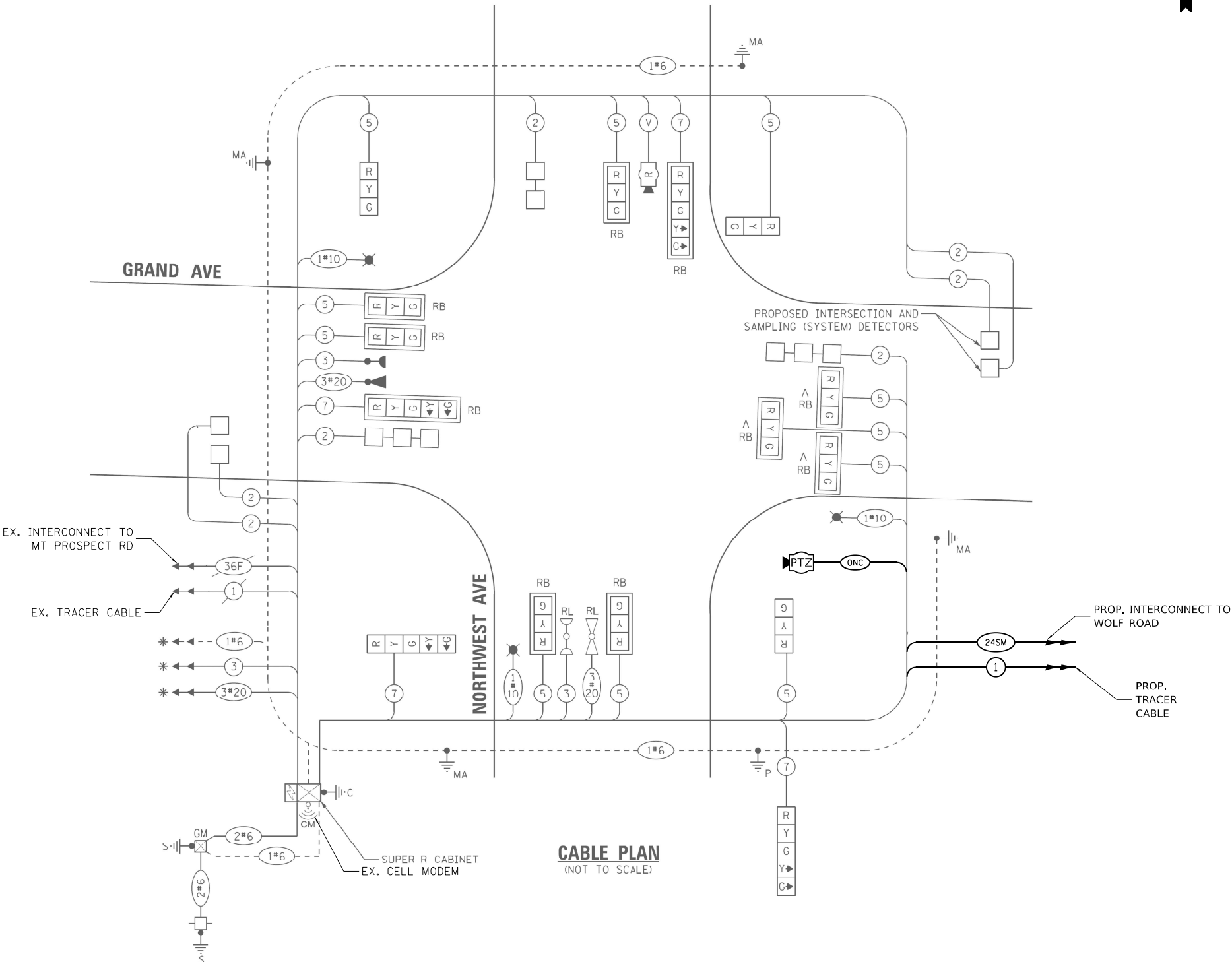
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	-	20	100	-
CONTROLLER	2	100	100	200.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	3	200	100	600.0
TOTAL =				1161.5

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER CT.
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: JENNIFER BERTHOLD
PHONE: (708) 410-5314
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

* EASTBOUND EMERGENCY VEHICLE LIGHT DETECTOR AND
CONFIRMATION BEACON FOR THIS INTERSECTION LOCATED AT THE
INTERSECTION OF GRAND AVE AND MT PROSPECT RD

^ SIGNAL HEADS HORIZONTALLY MOUNTED



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	170
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1

TS 5211
IDOT CENTRACS
SECTION 244



USER NAME = bfunk	DESIGNED - TZ	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - TZ	REVISED -
PLOT DATE = 3/19/2026	CHECKED - BF	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

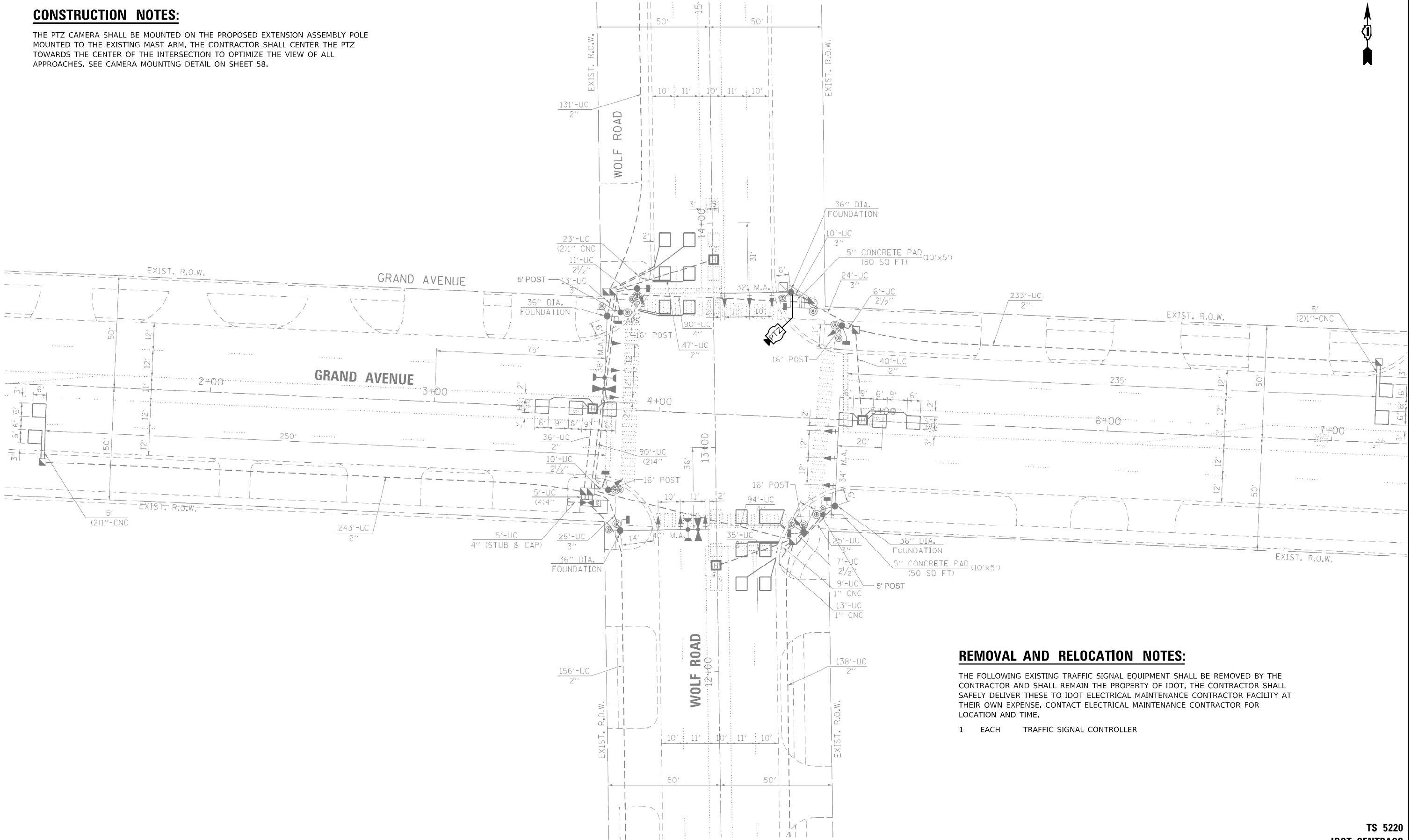
TRAFFIC SIGNAL CABLE PLAN
GRAND AVENUE AND NORTHWEST AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	28
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE PROPOSED EXTENSION ASSEMBLY POLE MOUNTED TO THE EXISTING MAST ARM. THE CONTRACTOR SHALL CENTER THE PTZ TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE CAMERA MOUNTING DETAIL ON SHEET 58.



REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRAFFIC SIGNAL CONTROLLER

TS 5220
IDOT CENTRACS
SECTION 244



USER NAME = bfunck	DESIGNED - TZ	REVISED -
	DRAWN - TZ	REVISED -
PLOT SCALE = 100,0012 ' / in.	CHECKED - BF	REVISED -
PLOT DATE = 3/23/2026	DATE - 3/19/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

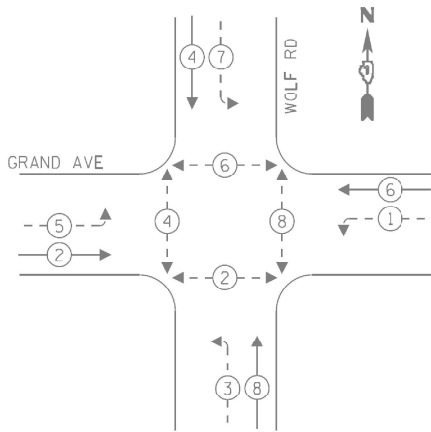
TRAFFIC SIGNAL MODIFICATION PLAN
GRAND AVENUE AND WOLF ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	29
CONTRACT NO. 621W91				
ILLINOIS FED. AID PROJECT				



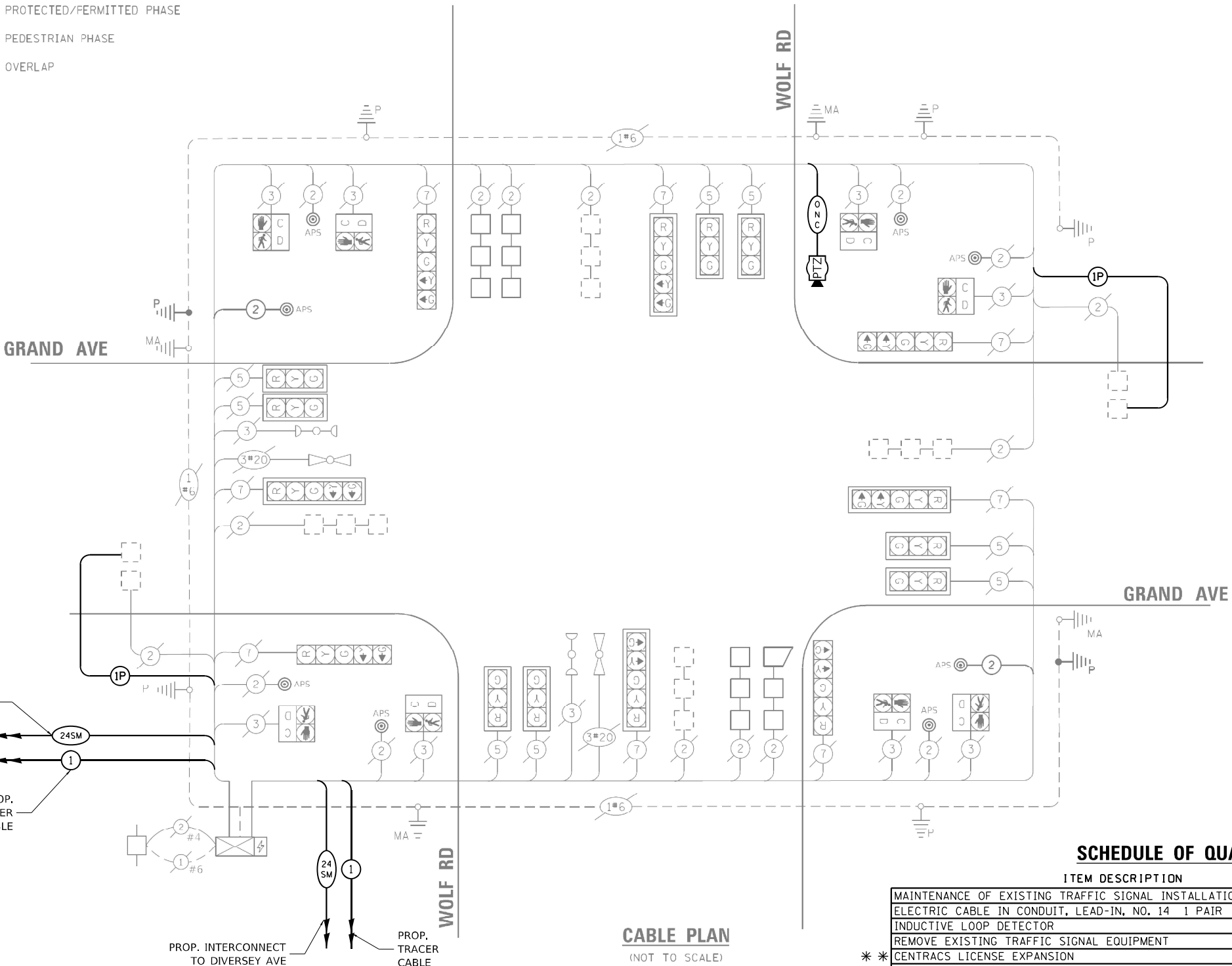
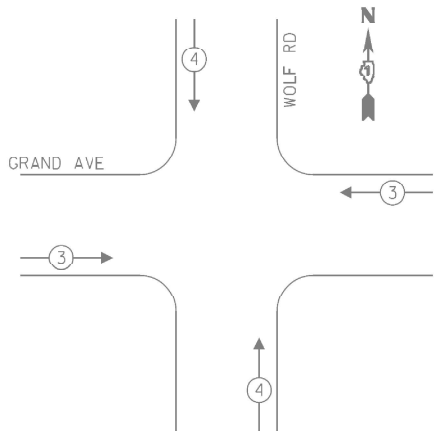
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← (⊙) → PROTECTED PHASE
- ← (⊙) - - PROTECTED/FERMITTED PHASE
- ← (⊙) → PEDESTRIAN PHASE
- ← (⊙) OL OVERLAP

EMERGENCY VEHICLE
PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	764
INDUCTIVE LOOP DETECTOR	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* * CENTRACS LICENSE EXPANSION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	278
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
POWER OVER ETHERNET EXTENDER	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
NETWORK SWITCH, ACCESS	EACH	1

* * CENTRACS LICENSE TO BE PROVIDED BY IDOT TRAFFIC

TS 5220
IDOT CENTRACS
SECTION 244

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	8	11
	4-SECTION	-	14
	5-SECTION	8	13
PROGRAMMABLE	3-SECTION	-	22
	4-SECTION	-	32
	5-SECTION	-	28
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTIONRADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	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	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1092	

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

ENERGY SUPPLY: CONTACT: ERICKA IRBY
PHONE: 779-231-0633
COMPANY: COMED
ACCOUNT NO: 09340-64114

iteris

USER NAME = bfunk
PLOT SCALE = 100,0000 ' / in.
PLOT DATE = 3/23/2026

DESIGNED - TZ
DRAWN - TZ
CHECKED - BF
DATE - 3/19/26

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
GRAND AVENUE AND WOLF ROAD

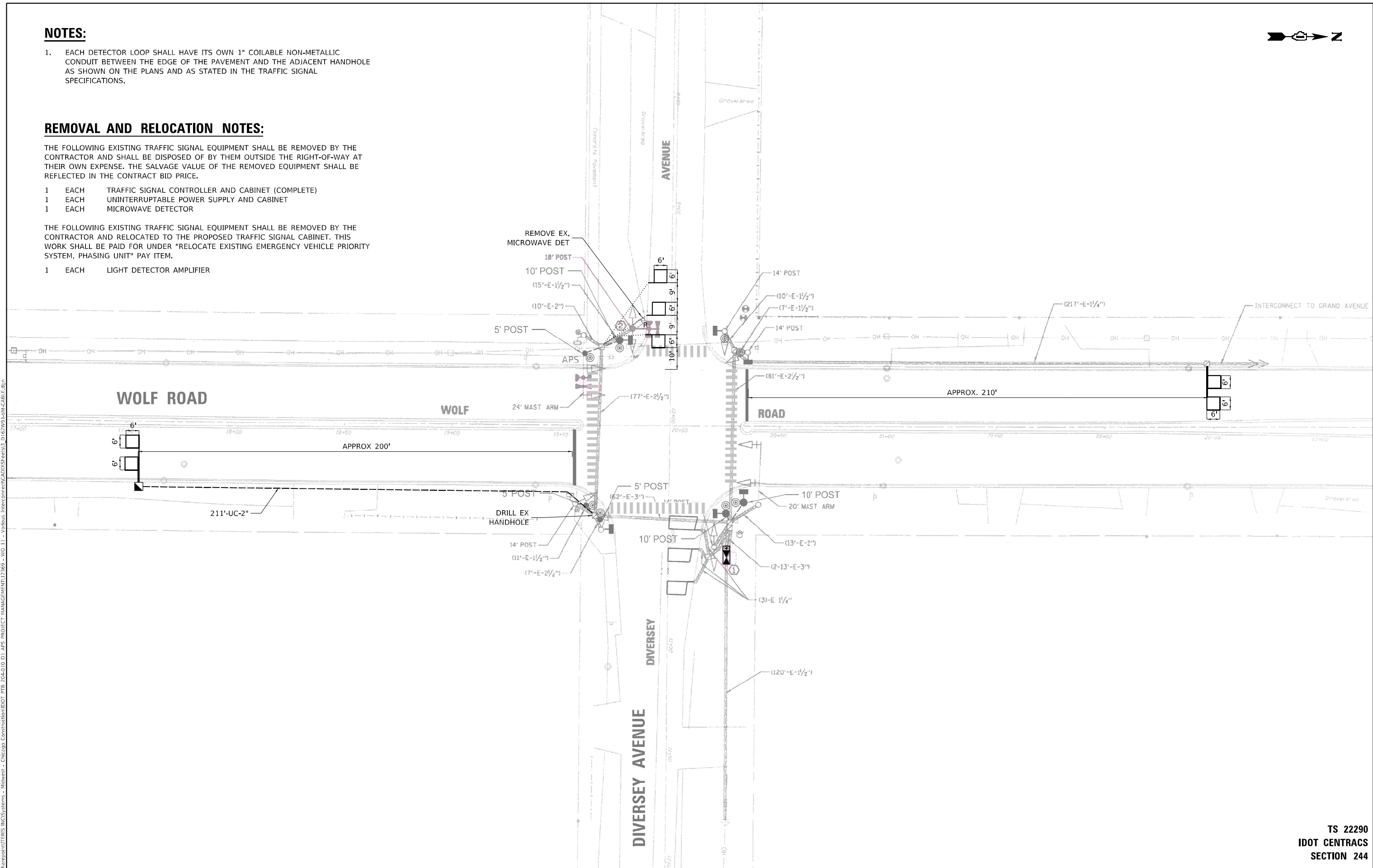
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	30
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

- REMOVAL AND RELOCATION NOTES:**

1	EACH	TRAFFIC SIGNAL CONTROLLER AND CABINET (COMPLETE)
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET
1	EACH	MICROWAVE DETECTOR

1 EACH LIGHT DETECTOR AMPLIFIER



MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\System - Midwest - Chicago Construction\IDOT PTB 204-010 D1 APS PROJECT MANAGEMENT\12369 - WO 11 - Various Interconnect\CADD\Sheets\3 D162W9 I-sht-CABLE.dgn



USER NAME = bfunk	DESIGNED - TZ	REVISED -
	DRAWN - TZ	REVISED -
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PLOT DATE = 5/8/2026	DATE - 5/8/26	REVISED -

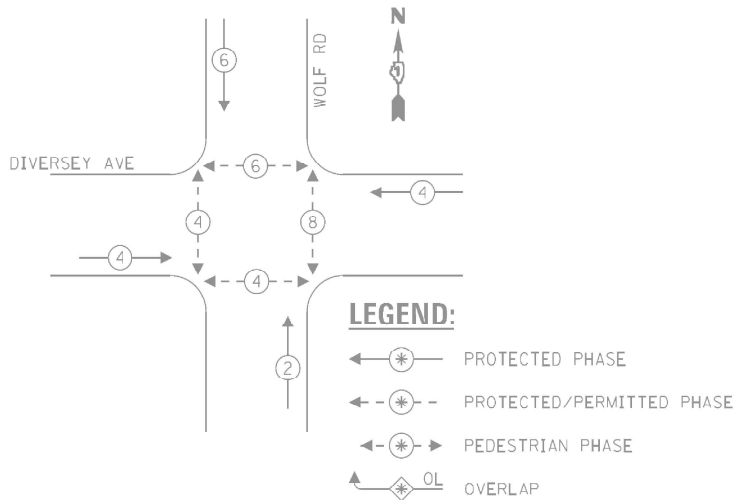
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
WOLF ROAD AND DIVERSEY PARKWAY**

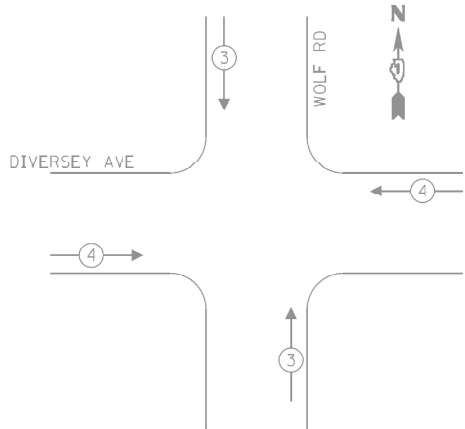
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	31
		CONTRACT NO. 62W91		
		ILLINOIS	FED. AID PROJECT	

PROPOSED CONTROLLER SEQUENCE



EMERGENCY VEHICLE
PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	12	11
	4-SECTION	-	14
	5-SECTION	-	13
PROGRAMMABLE	3-SECTION	-	22
	4-SECTION	-	32
	5-SECTION	-	28
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTIONRADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		427	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1032	

ENERGY COSTS - BILLED TO:
LEYDEN TOWNSHIP
2501 N MANNHEIM ROAD
FRANKLIN PARK, IL 60131

ENERGY SUPPLY: CONTACT: ERICKA IRBY
PHONE: 779-231-0633
COMPANY: COMED
ACCOUNT NO: 23610-70039

DIVERSEY AVE

WOLF RD

CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	211
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1499
DRILL EXISTING HANDHOLE	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	81
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* CENTRACS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
NETWORK SWITCH, ACCESS	EACH	1

* * CENTRACS LICENSE TO BE PROVIDED BY IDOT TRAFFIC

TS 22290
IDOT CENTRACS
SECTION 244

iteris

USER NAME = bfunck
PLOT SCALE = 100,0000' / in.
PLOT DATE = 5/8/2026

DESIGNED - TZ
DRAWN - TZ
CHECKED - BF
DATE - 5/8/26

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
WOLF ROAD AND DIVERSEY PARKWAY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	32
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				



NORTHWEST
AVENUE

GARNET DR

GRAND AVENUE

MATCH LINE A

84'-E-4''
3'-E-4-4''

DRILL EXISTING HANDHOLE

659'-MULTI-DUCT, 3 WAY - 22MM(2),
1.25'' SDR 11 (1) MICRODUCTS

82'-UC-4''

559'-MULTI-DUCT, 3 WAY - 22MM(2),
1.25'' SDR 11 (1) MICRODUCTS

NEW 24SM FIBER AND NEW TRACER CABLE
24SM FIBER CABLE - 2882 FT
TRACER NO 14 1C - 2673 FT



RHODES DR

PEARL AV

GRAND AVENUE

MATCH LINE B (SEE SHEET 34)

137'-UC-2''

69'-UC-4''

1071'-MULTI-DUCT, 3 WAY - 22MM(2),
1.25'' SDR 11 (1) MICRODUCTS

66'-UC-4''

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USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
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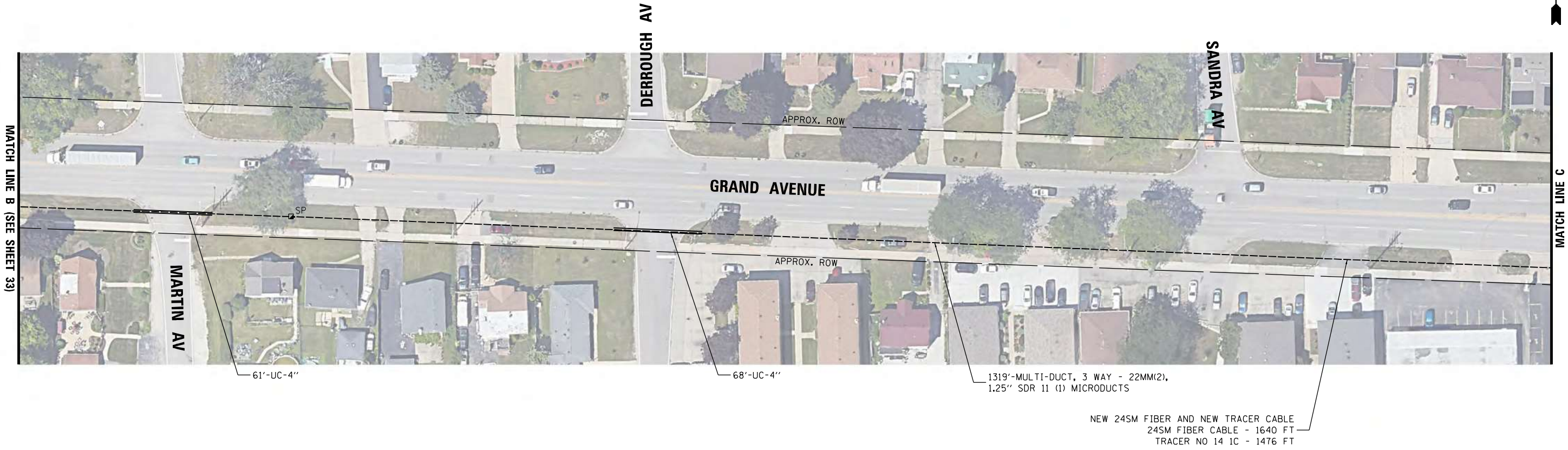
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION C
GRAND AVENUE - NORTHWEST AVENUE TO WOLF ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	33
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	

IDOT CENTRACS
SECTION 244



IDOT CENTRACS
SECTION 244

MODEL: Default
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USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - AG	REVISED -
PLOT DATE = 5/5/2026	DATE - 5/4/26	REVISED -

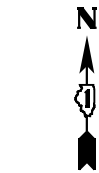
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN – LOCATION C
GRAND AVENUE – NORTHWEST AVENUE TO WOLF ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	34
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	

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IDOT CENTRACS
SECTION 244

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -
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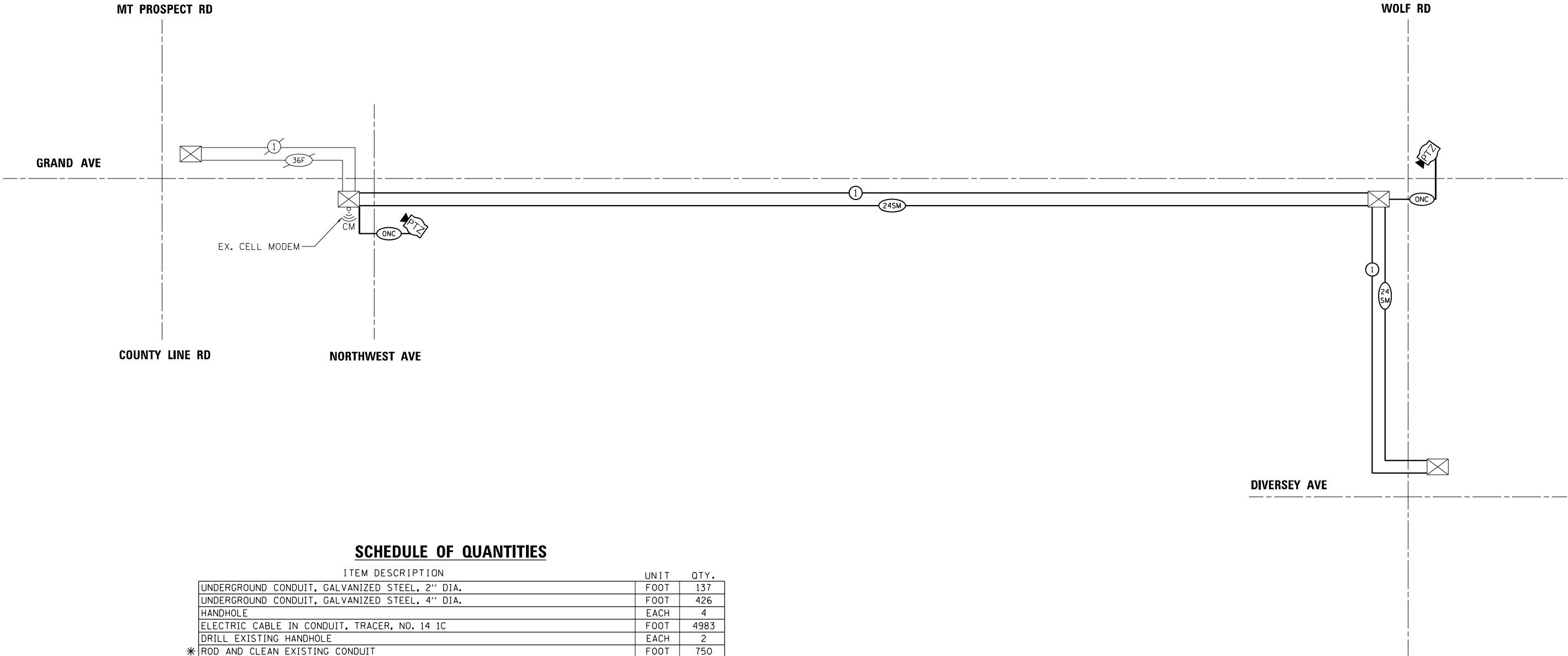
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION C
WOLF ROAD - GRAND AVENUE TO DIVERSEY AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-06-06-TS	COOK	60	35
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	137
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	426
HANDHOLE	EACH	4
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4983
DRILL EXISTING HANDHOLE	EACH	2
* ROD AND CLEAN EXISTING CONDUIT	FOOT	750
UNDERGROUND CONDUIT, MULTI-DUCT, 3 WAY - 22MM (2), 1.25 SDR 11 (1) MICRODUCTS	FOOT	3608
FIBER OPTIC CABLE 24 FIBER, SINGLE MODE	FOOT	5676
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1

* NOMINAL QUANTITY TO BE USED AS DIRECTED BY ENGINEER

IDOT CENTRACS
SECTION 244



USER NAME = bfunck	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
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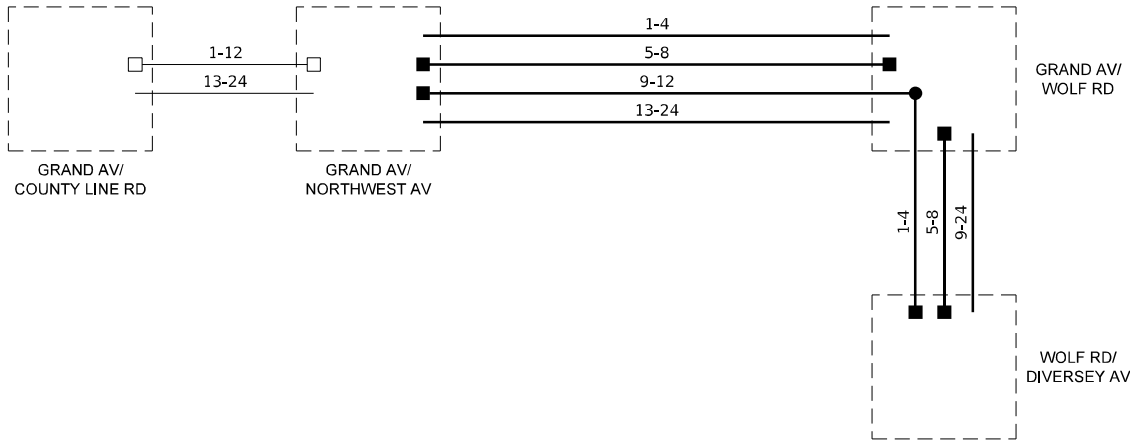
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC – LOCATION C
IDOT SYSTEM 244

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	36
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

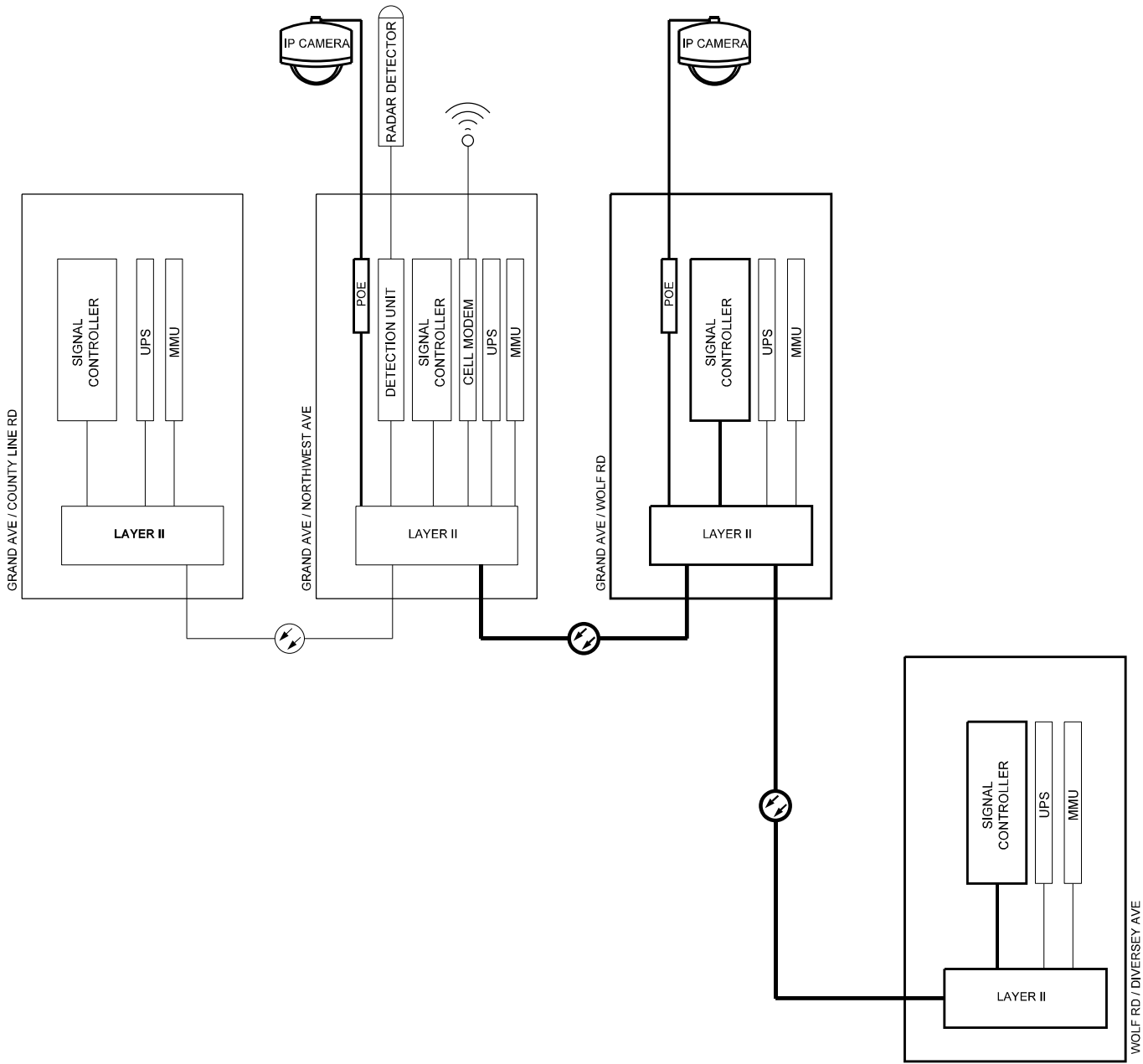
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SCHEDULE OF FIBER TERMINATION AND SPLICING

INTERSECTION / LOCATION	INCLUDED IN COST OF NEW FIBER		X1400217	X8710317
	# OF TERMINATIONS	# OF SPLICES	TERMINATE FIBER IN CABINET	SPLICE FIBER IN CABINET
GRAND AVE AND NORTHWEST AVE	8		EACH	EACH
GRAND AVE AND WOLF RD	8	4		
WOLF RD AND DIVERSEY AVE	8			

- EXISTING SM FIBER
- EXISTING CONNECTOR / EXISTING SM FIBER
- PROPOSED SM FIBER
- NEW CONNECTOR / PROPOSED SM FIBER
- PROPOSED FUSION SPLICE SM FIBER



USER NAME = bfunck	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
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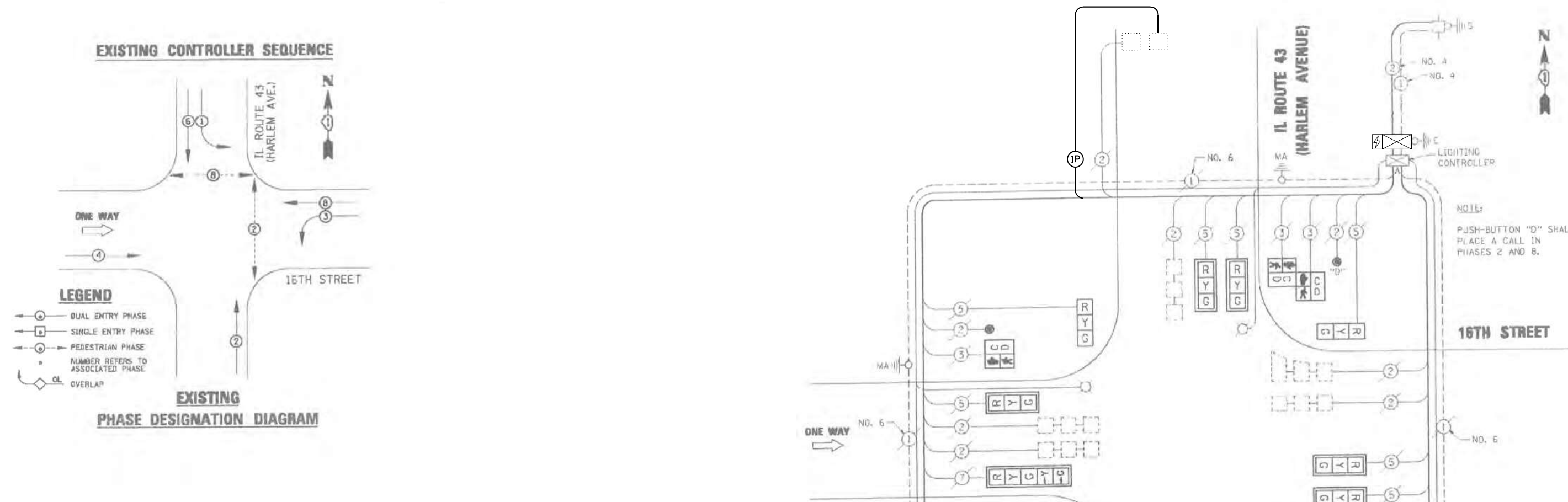
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPlicing DIAGRAM AND CABINET DETAIL
INTERCONNECT C

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	37
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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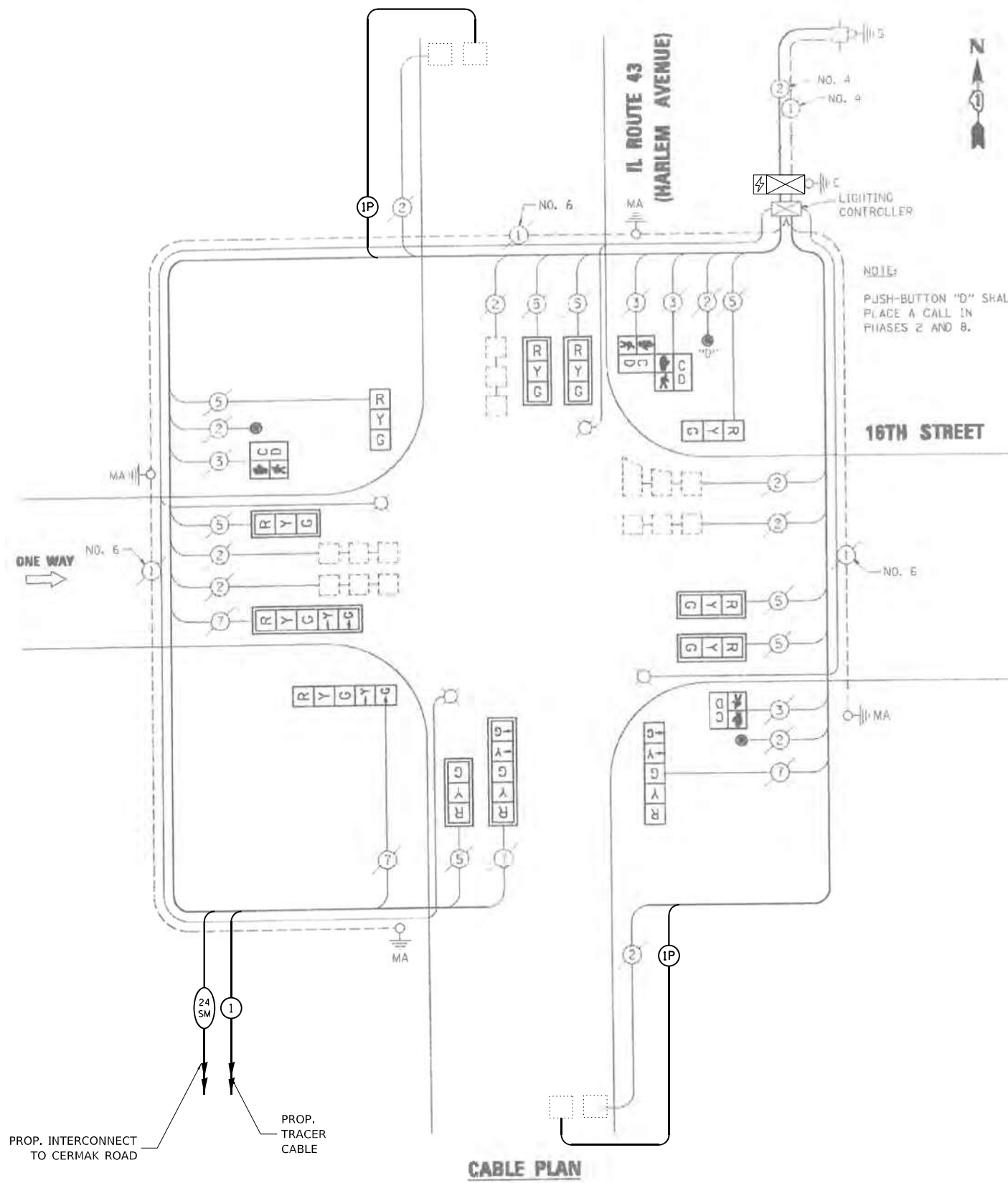


SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	723
INDUCTIVE LOOP DETECTOR	EACH	2
* * CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
NETWORK SWITCH, ACCESS	EACH	1

* * CENTRACS LICENSE TO BE PROVIDED BY IDOT TRAFFIC

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	9.6
PLD. SIGNAL	4	40	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84	100	0.50	
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					TOTAL = 431.6
ENERGY SUPPLY	CONTACT: X				
	PHONE: X				
	COMPANY: X				



iteris

USER NAME = bfunk
PLOT SCALE = 100,000' / in.
PLOT DATE = 5/7/2026

DESIGNED - TZ	REVISED -
DRAWN - TZ	REVISED -
CHECKED - BF	REVISED -
DATE - 2/4/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

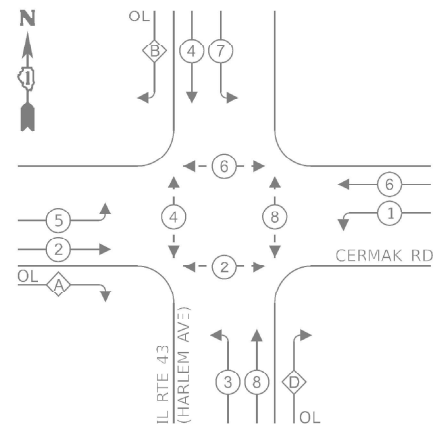
TRAFFIC SIGNAL CABLE PLAN
IL ROUTE 43 (HARLEM AVENUE) AND 16TH STREET

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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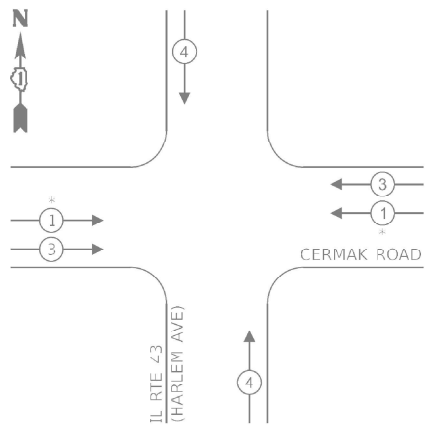
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	38
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 2110
IDOT CENTRACS
SECTION 30

EXISTING AND
PROPOSED CONTROLLER SEQUENCE



EXISTING AND
PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE



LEGEND:

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

RIGHT TURN OVERLAP
PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
D	8	1

EXIST. TRACER CABLE
EXIST. INTERCONNECT TO MID CITY NATIONAL BANK ENTR

NOTES:

- PTZ CAMERA TO BE MOUNTED ON THE LUMINAIRE ARM.
- SOFTWARE FOR THIS CONTROLLER SHALL BE EOS.

ENERGY COSTS TO:

CITY OF BERWYN
6700 W 26TH STREET
BERWYN, ILLINOIS 60402

ENERGY SUPPLY: CONTACT: TRACY WASH

PHONE: (224) 254-4279

COMPANY: COMED

ACCOUNT NUMBER: 53230-22014

METER NUMBER: ---

DESIGNED	-	TZ	REVISED	-
DRAWN	-	TZ	REVISED	-
CHECKED	-	BF	REVISED	-
DATE	-	3/20/26	REVISED	-

TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	17	11	187
4-SECTION	-	14	-
5-SECTION	6	13	78
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
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	1	35	35
PTZ CAMERA	1	75	75
TOTAL UPS SIZING			670
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1275

iteris

USER NAME	= bfunck
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 3/23/2026

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 43
(HARLEM AVE)

CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TERMINATE FIBER IN CABINET	EACH	4

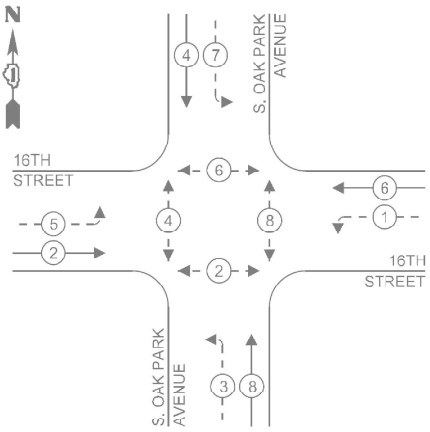
TRAFFIC SIGNAL CABLE PLAN IL 43 (HARLEM AVENUE) AND CERMAK ROAD			
SCALE:	SHEET	OF	SHEETS
STA.	TO	STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	39
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 2280
IDOT CENTRACS
SECTION 30

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS - INCL\Systems - Midwest - Chicago Construction\IDOT - P1B 204\010 D1 APS PROJECT MANAGEMENT\12369 - WO 11 - Various Interconnect\CADD\Sheets\4 D 62\W91-1-1N-CABLE.dgn

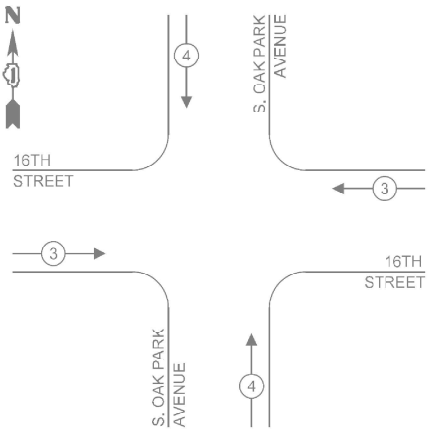
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE



TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT	WATTAGE	TOTAL	WATTAGE
SIGNAL HEAD	3-SECTION	-	11	-	-
	4-SECTION	-	14	-	-
	5-SECTION	8	13	104	-
PROGRAMMABLE SIGNAL	3-SECTION	-	22	-	-
	4-SECTION	-	32	-	-
	5-SECTION	-	28	-	-
PEDESTRIAN SIGNAL	8	15	120	-	-
CONTROLLER	1	150	150	-	-
MASTER CONTROLLER	-	100	-	-	-
UPS	1	25	25	-	-
DETECTION	RADAR	-	20	-	-
	VIDEO	-	20	-	-
BI ANK-OUT SIGN	-	25	-	-	-
NETWORK SWITCH (II OR III)	-	35	-	-	-
CELLULAR MODEM	-	15	-	-	-
TOTAL FOR UPS =			399	-	-
UPS CHARGING	1	225	225	-	-
BATTERY HEATER MAT	1	180	180	-	-
CABINET HEATER	1	200	200	-	-
FLASHER	-	15	-	-	-
LED STREET NAME SIGN	-	120	-	-	-
LUMINAIRE	-	240	-	-	-
TOTAL FOR SERVICE =			1,004	-	-

ENERGY COSTS TO:

BERWYN PUBLIC WORKS

6700 W 30TH ST
BERWYN, IL 60402

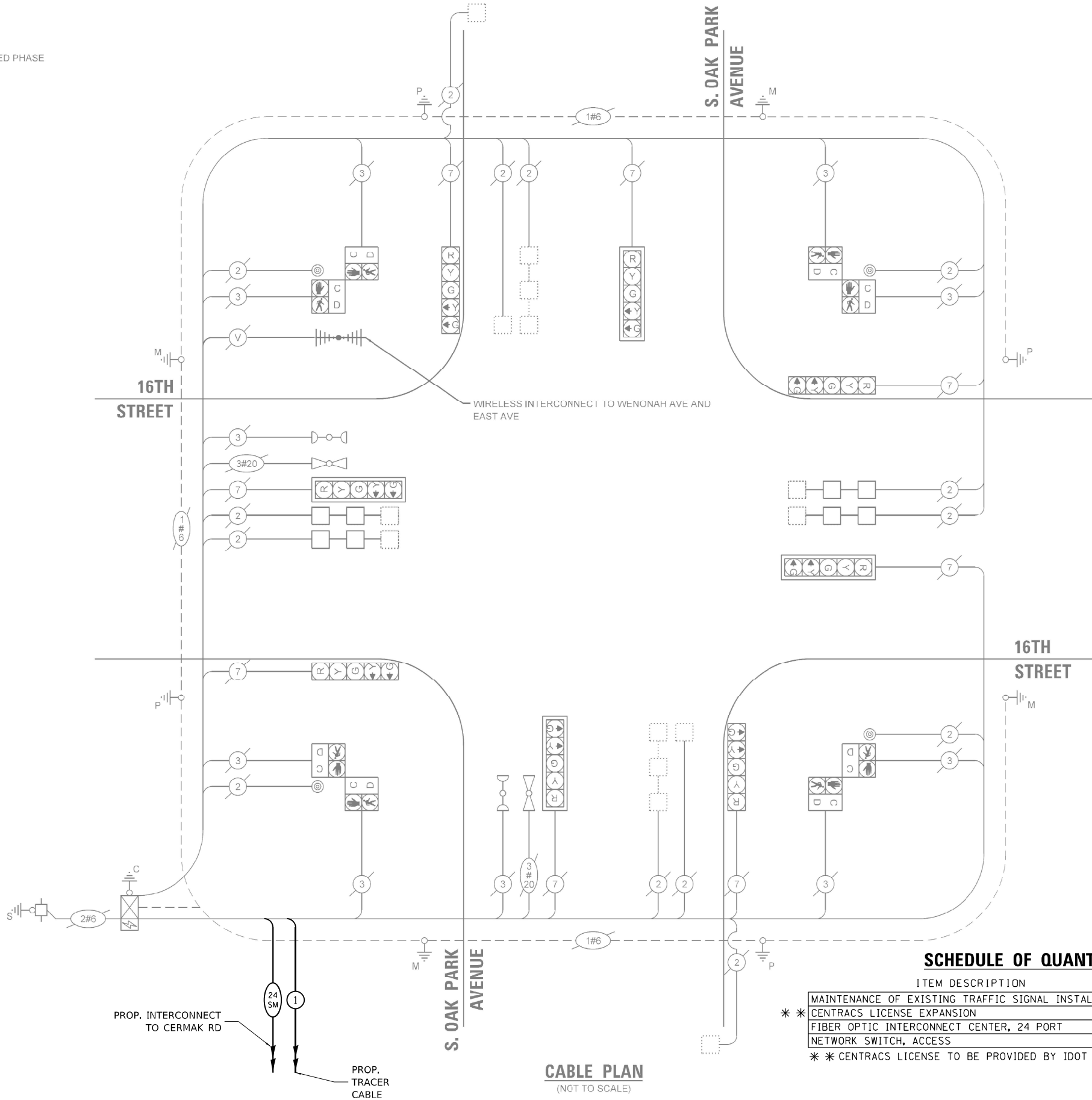
ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: (866) 639-3532
COMPANY: COM-ED
ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
NETWORK SWITCH, ACCESS	EACH	1

* * CENTRACS LICENSE TO BE PROVIDED BY IDOT TRAFFIC

CABLE PLAN
(NOT TO SCALE)



iteris

USER NAME = bfunck
PLOT SCALE = 100,0000 ' / in.
PLOT DATE = 5/5/2026

DESIGNED - TZ	REVISED -
DRAWN - TZ	REVISED -
CHECKED - BF	REVISED -
DATE - 5/4/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

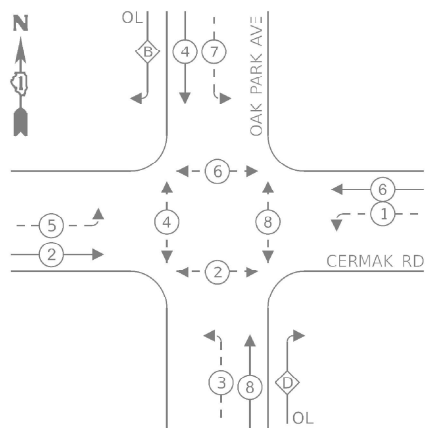
TRAFFIC SIGNAL CABLE PLAN
OAK PARK AVENUE AND 16TH STREET

SCALE: SHEET OF SHEETS STA. TO STA.

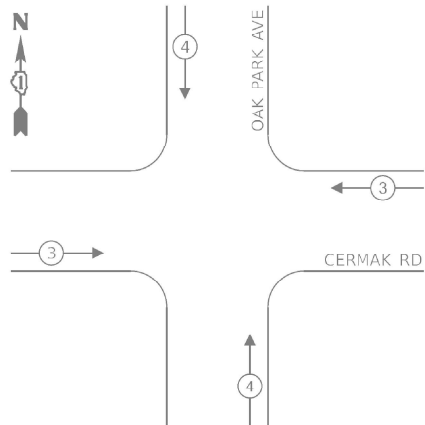
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	40
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 7925
IDOT CENTRACS
SECTION 30

EXISTING AND
PROPOSED CONTROLLER SEQUENCE



EXISTING AND
PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE



LEGEND:

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

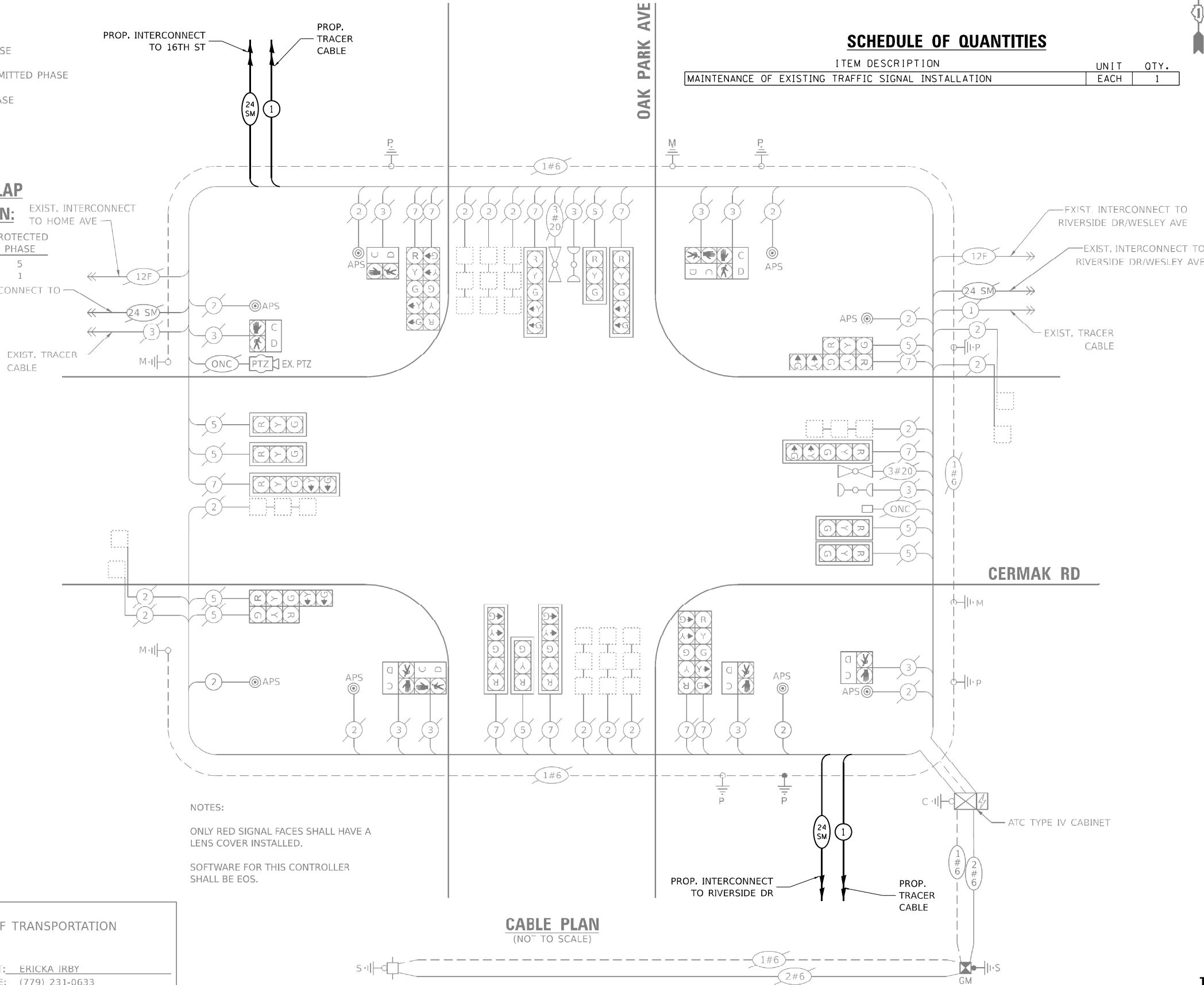
RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5
D	8	1

EXIST. INTERCONNECT TO HOME AVE

EXIST. INTERCONNECT TO HOME AVE



SCHEDULE OF QUANTITIES

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

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	12	13	156
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
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	1	35	35
PTZ CAMERA	1	75	75
TOTAL UPS SIZING			649
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1254

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

ENERGY SUPPLY: CONTACT: ERICKA IRBY
PHONE: (779) 231-0633
COMPANY: COMED
ACCOUNT NUMBER: 20010-01058
METER NUMBER: ---

iteris

USER NAME = bfunck
PLOT SCALE = 100,0000' / in.
PLOT DATE = 3/23/2026

DESIGNED - TZ
DRAWN - TZ
CHECKED - BF
DATE - 3/20/26

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
OAK PARK AVENUE AND CERMAK ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	41
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

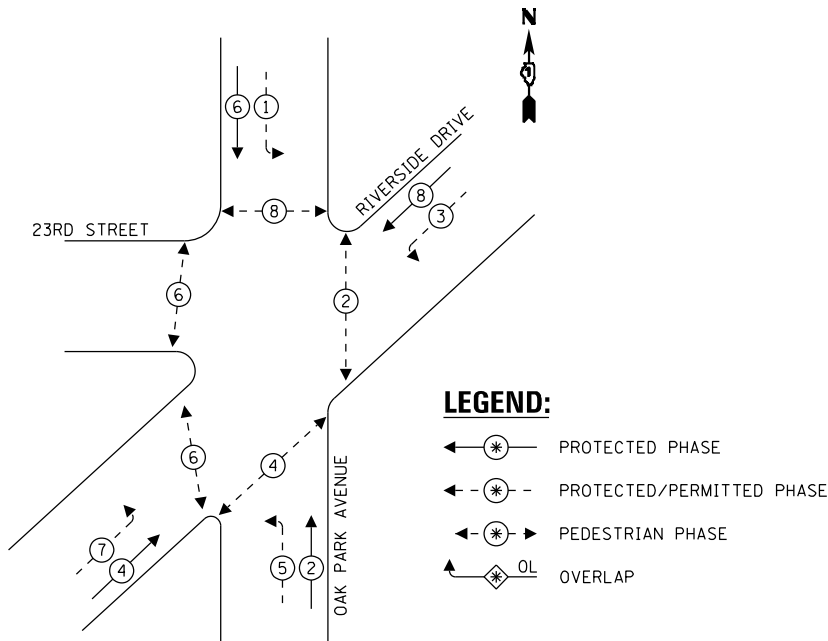
TS 4830
IDOT CENTRACS
SECTION 30

MODEL Default
FILE Name: C:\Sharepoint\ITRIS - Midwest - Chicago Construction\IDOT - P1B 204\010 D1 APS PROJECT MANAGEMENT\12369 - WO 11 - Various Interconnect\CADD\Sheet\4 D162W91-1-TR-CABLE.dgn

EXISTING CONTROLLER SEQUENCE



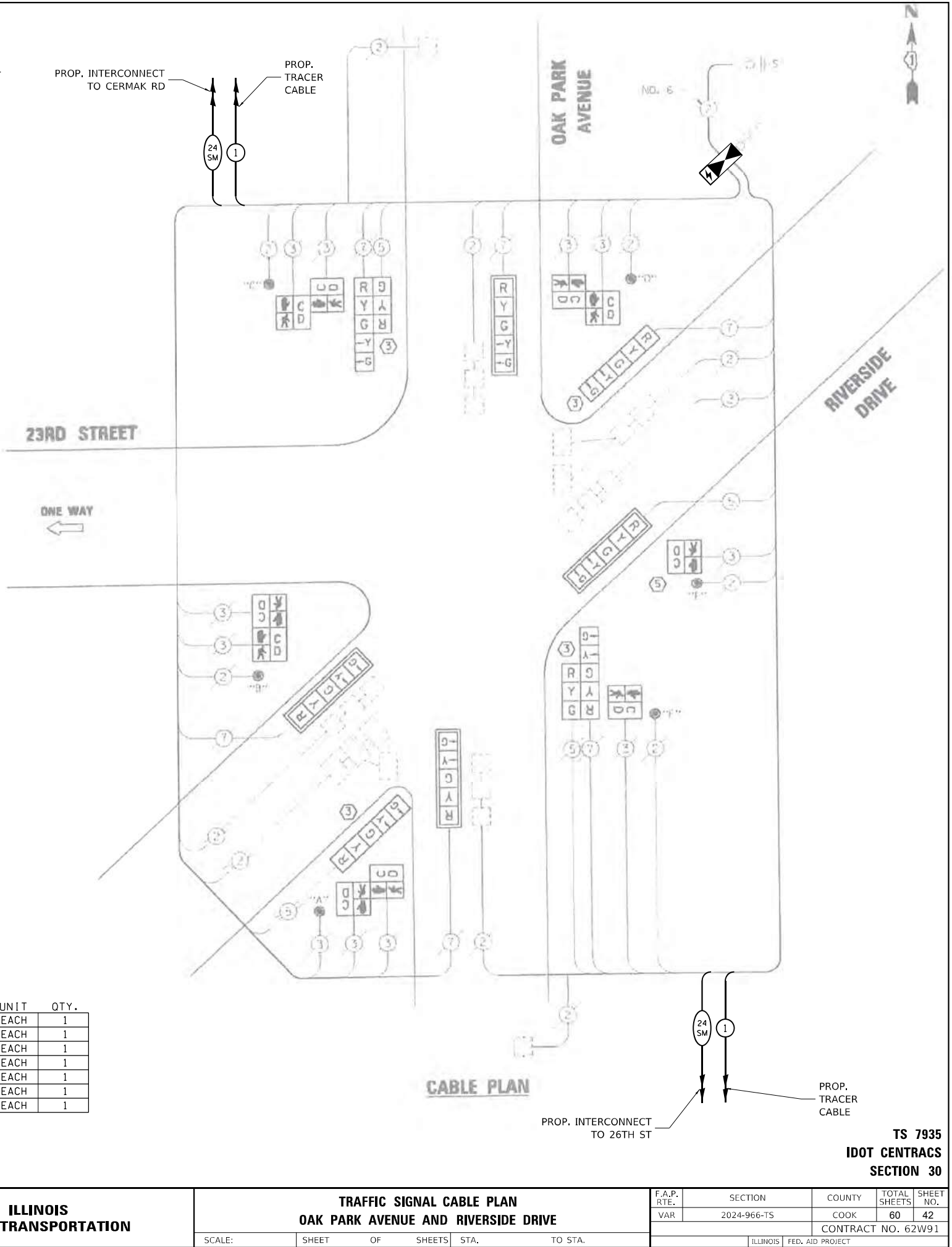
PROPOSED CONTROLLER SEQUENCE



REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRAFFIC SIGNAL CONTROLLER AND CABINET (COMPLETE)
1 EACH UNINTERRUPTABLE POWER SUPPLY AND CABINET



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* * CENTRACS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
NETWORK SWITCH, ACCESS	EACH	1
* * CENTRACS LICENSE TO BE PROVIDED BY IDOT TRAFFIC		

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	OPERATION	
SIGNAL (RED)	10	135	17	0.50	85
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW	16	135	12	0.10	19.2
PLD. SIGNAL	10	90	25	1.00	250
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84	100	0.50	
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					TOTAL = 554.2
ENERGY SUPPLY CONTACT: X PHONE: X COMPANY: X					

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USER NAME = bfunk	DESIGNED - TZ	REVISED -
PLOT SCALE = 100,000 ' / in.	DRAWN - TZ	REVISED -
PLOT DATE = 3/23/2026	CHECKED - BF	REVISED -
	DATE - 3/20/26	REVISED -

DESIGNED - TZ	REVISED -
DRAWN - TZ	REVISED -
CHECKED - BF	REVISED -
DATE - 3/20/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
OAK PARK AVENUE AND RIVERSIDE DRIVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	42
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 7935
IDOT CENTRACS
SECTION 30



REMOVAL AND RELOCATION NOTES:

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

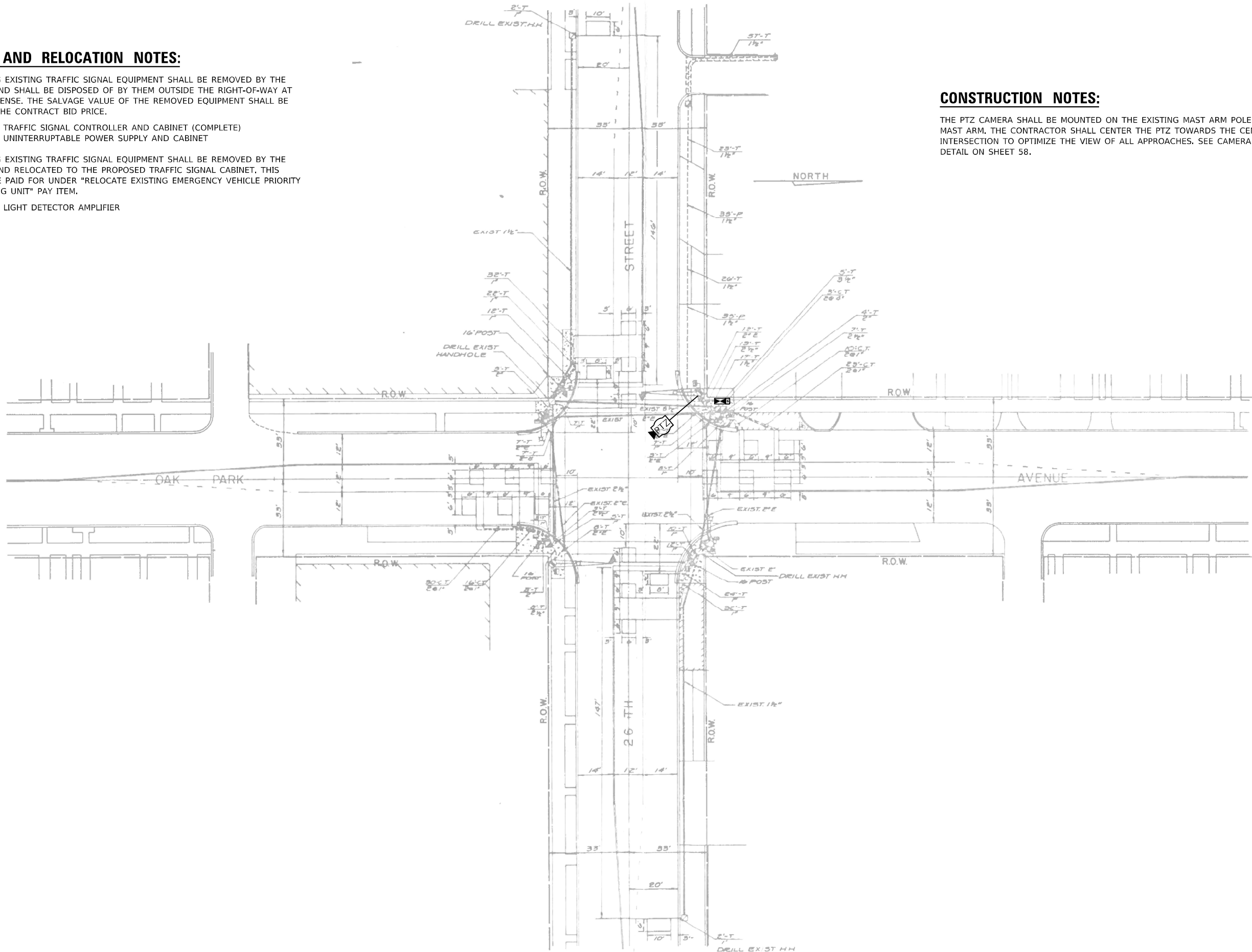
- 1 EACH TRAFFIC SIGNAL CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY AND CABINET

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT" PAY ITEM.

- 1 EACH LIGHT DETECTOR AMPLIFIER

CONSTRUCTION NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXISTING MAST ARM POLE UNDER THE MAST ARM. THE CONTRACTOR SHALL CENTER THE PTZ TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE CAMERA MOUNTING DETAIL ON SHEET 58.



TS 7915
IDOT CENTRACS
SECTION 30



USER NAME = bfunk	DESIGNED - TZ	REVISED -
	DRAWN - TZ	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - BF	REVISED -
PLOT DATE = 3/23/2026	DATE - 3/20/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

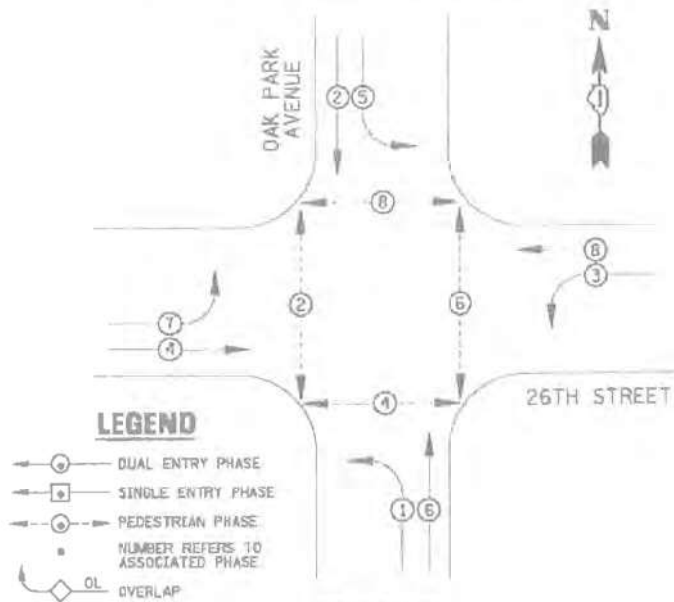
TRAFFIC SIGNAL MODIFICATION PLAN
OAK PARK AVENUE AND 26TH STREET

SCALE: SHEET OF SHEETS STA. TO STA.

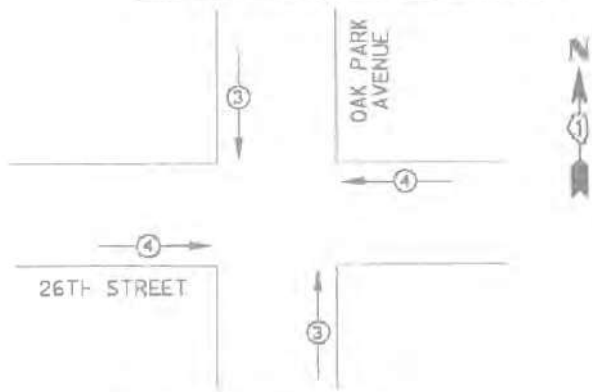
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	43
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

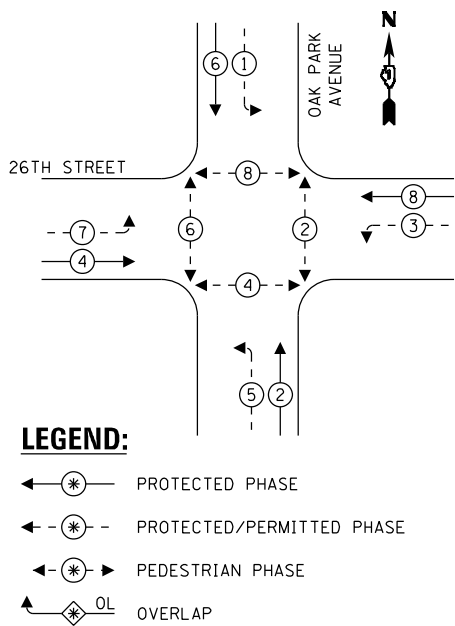


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	→

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCANDESC	LED	OPERATION	
SIGNAL (RED)	8	135	17	0.50	58
(YELLOW)	8	135	25	0.25	50
(GREEN)	8	135	15	0.25	30
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
YELLOW SIGN		84	100	0.50	
FLASHER		135	25	0.50	
TOTAL =					467.2
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHALMBURG, IL 60196-1096					
ENERGY SUPPLY	CONTACT	X			
	PHONE	X			
	COMPANY	X			

PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	55
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
NETWORK SWITCH, ACCESS	EACH	1
** CENTRACS LICENSE TO BE PROVIDED BY IDOT TRAFFIC		

PROP. INTERCONNECT TO RIVERSIDE DR
PROP. TRACER CABLE

26TH STREET

OAK PARK AVENUE

CABLE PLAN

TS 7915
IDOT CENTRACS
SECTION 30

iteris

USER NAME = bfunk
DESIGNED - TZ
DRAWN - TZ
PLOT SCALE = 100,000' / in.
PLOT DATE = 3/25/2026

REVISD -
REVISD -
REVISD -
REVISD -
DATE - 3/20/26

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

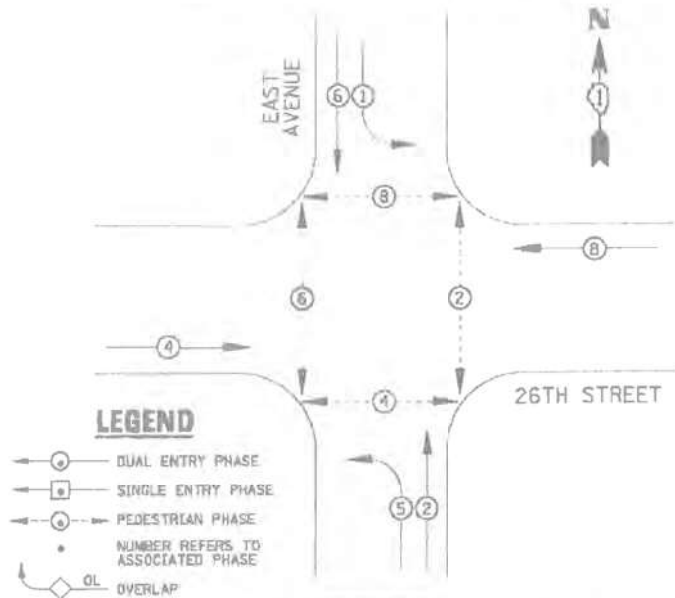
TRAFFIC SIGNAL CABLE PLAN
OAK PARK AVENUE AND 26TH STREET

SCALE: SHEET OF SHEETS STA. TO STA.

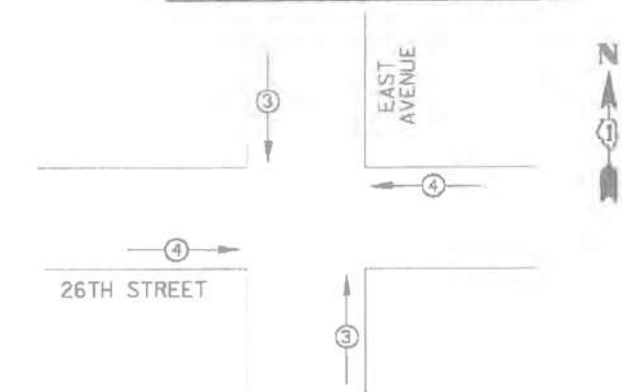
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	44
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	→

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCANDESCENT	WATTAGE LED	OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
SYMBOL (WHITE)	16	135	25	0.25	100
SYMBOL (GREEN)	16	135	15	0.25	60
ARROW	8	135	12	0.10	9.6
RED SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
TRAFFIC SIGN		84	100	0.50	
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT, SCHAUMBURG, IL 60196-1096					TOTAL = 605.6
ENERGY SUPPLY CONTACT: X					
PHONE: X					
COMPANY: X					

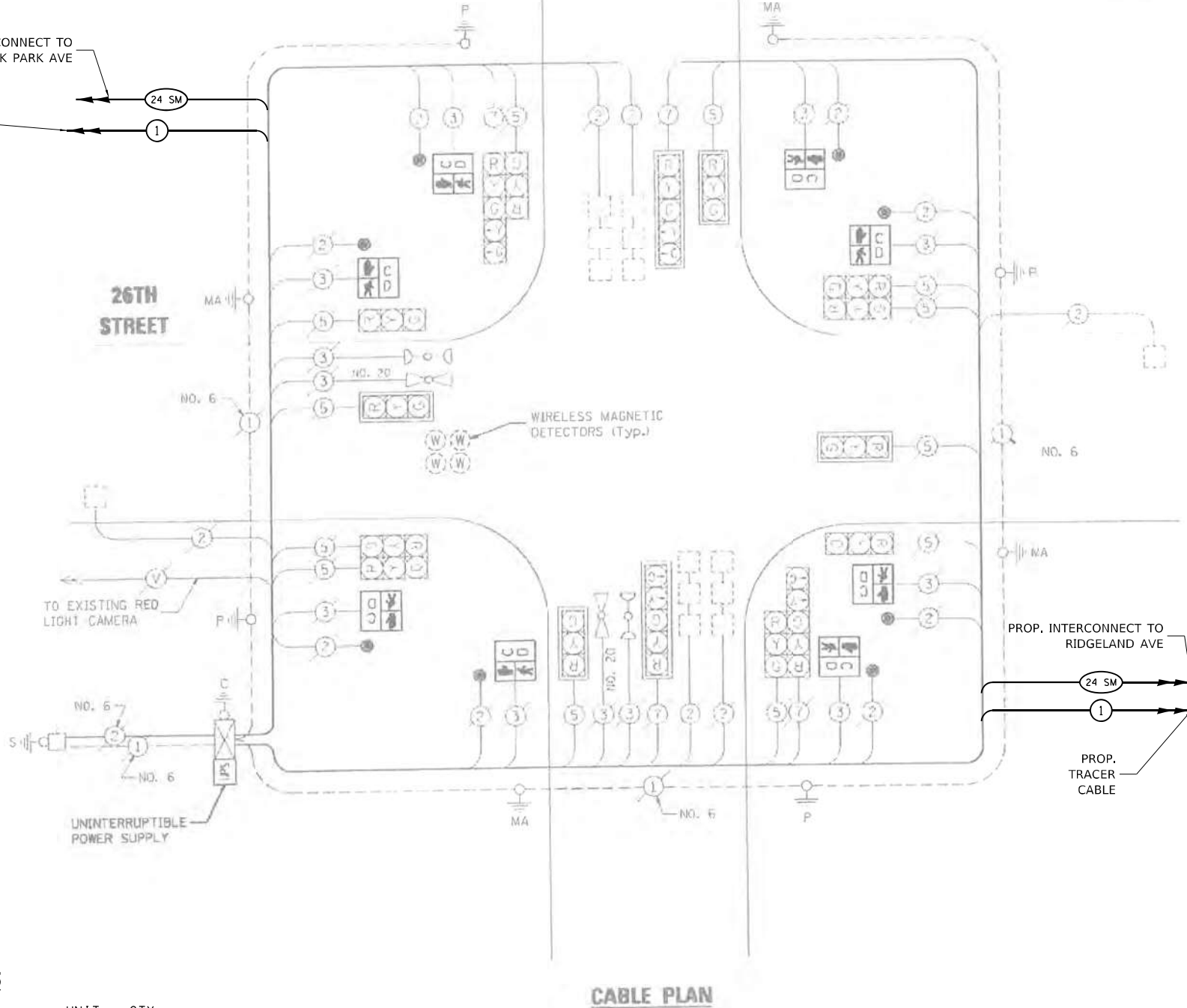
REMOVAL AND RELOCATION NOTES:

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

1 EACH TRAFFIC SIGNAL CONTROLLER

PROP. INTERCONNECT TO OAK PARK AVE

PROP. TRACER CABLE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* * CENTRACS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
NETWORK SWITCH, ACCESS	EACH	1
* * CENTRACS LICENSE TO BE PROVIDED BY IDOT TRAFFIC		

iteris

USER NAME = bfunk	DESIGNED - TZ	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - TZ	REVISED -
PLOT DATE = 3/23/2026	CHECKED - BF	REVISED -
	DATE - 2/4/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

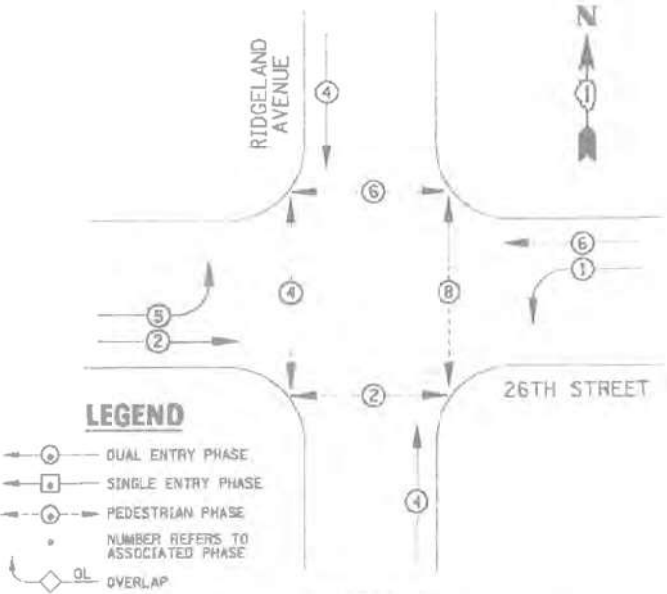
TRAFFIC SIGNAL CABLE PLAN
26TH STREET & EAST AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

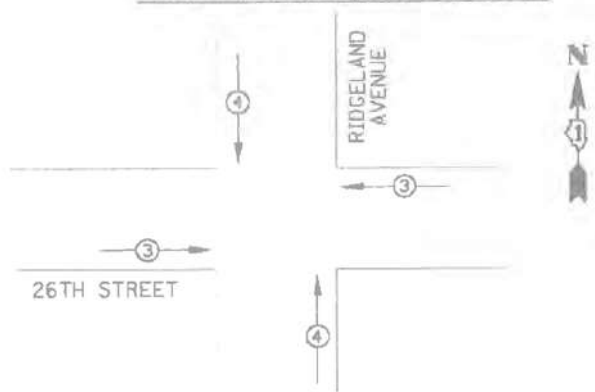
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	45
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 7920
IDOT CENTRACS
SECTION 30

EXISTING AND PROPOSED
CONTROLLER SEQUENCE



EXISTING
PHASE DESIGNATION DIAGRAM



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

EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	XOPERATION	
SIGNAL (RED)	12	135	17	0.50	108
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	40	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84	100	0.50	
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					TOTAL = 531.6
ENERGY SUPPLY CONTACT:	X				
PHONE:	X				
COMPANY:	X				

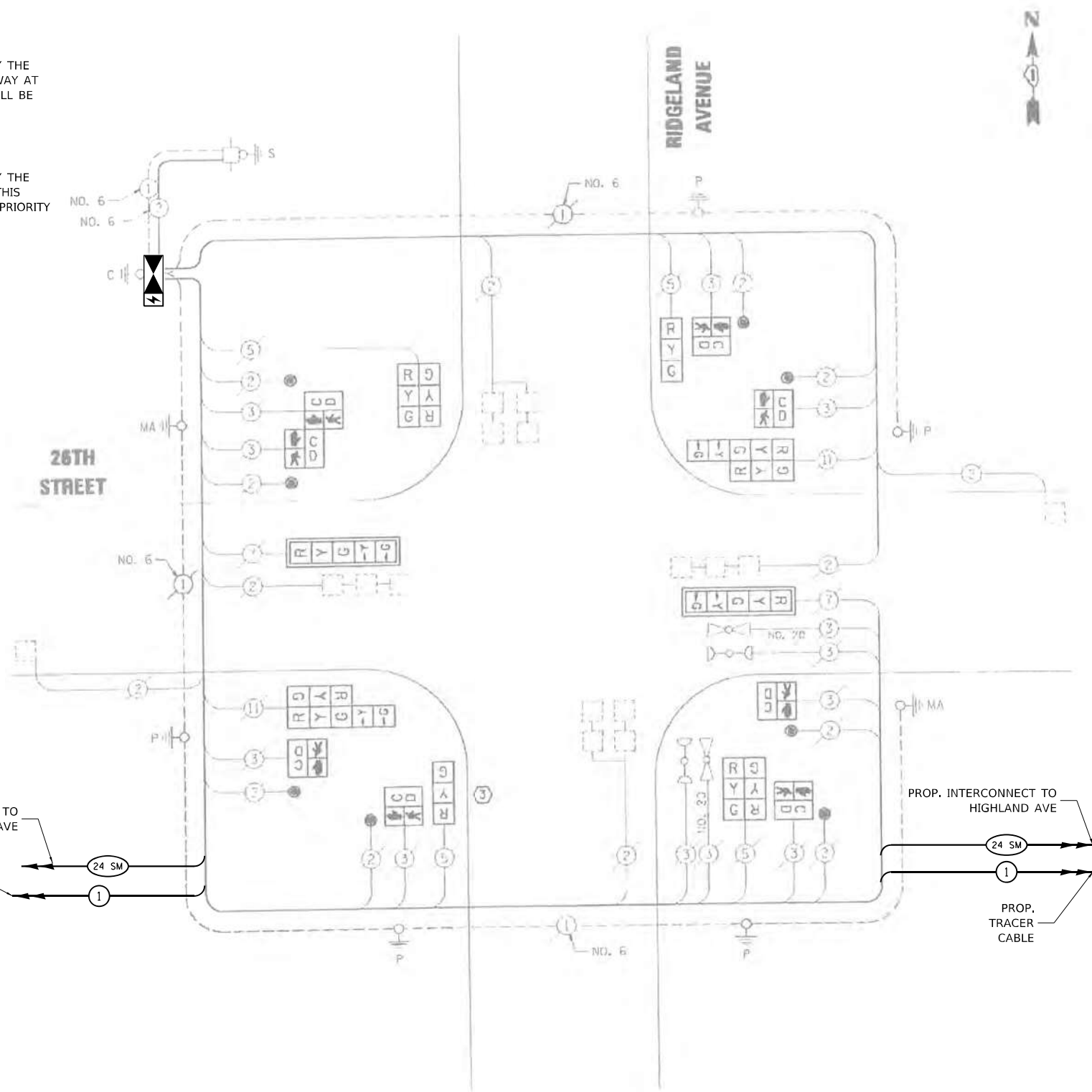
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRAFFIC SIGNAL CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY AND CABINET

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT" PAY ITEM.

- 1 EACH LIGHT DETECTOR AMPLIFIER



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
NETWORK SWITCH, ACCESS	EACH	1

** CENTRACS LICENSE TO BE PROVIDED BY IDOT TRAFFIC

iteris

USER NAME = bfunk	DESIGNED - TZ	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - TZ	REVISED -
PLOT DATE = 3/23/2026	CHECKED - BF	REVISED -
	DATE - 3/20/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

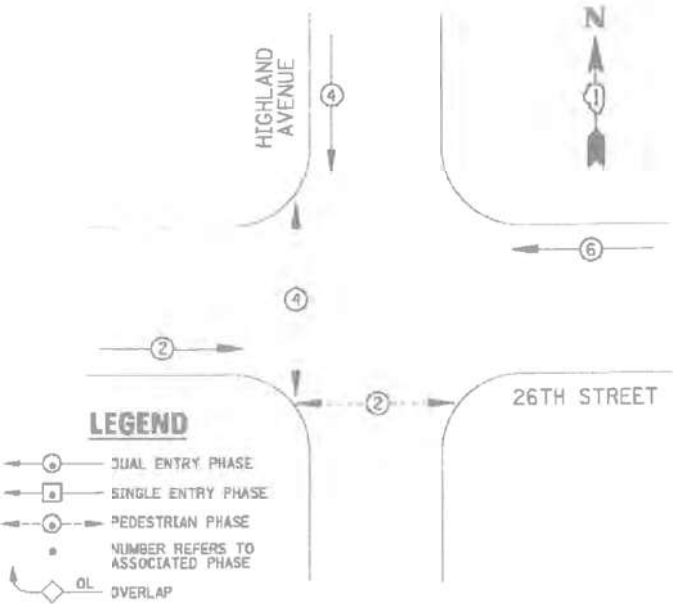
TRAFFIC SIGNAL CABLE PLAN
26TH STREET AND RIDGELAND AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	46
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 3755
IDOT CENTRACS
SECTION 30

EXISTING AND PROPOSED
CONTROLLER SEQUENCE



REMOVAL AND RELOCATION NOTES:

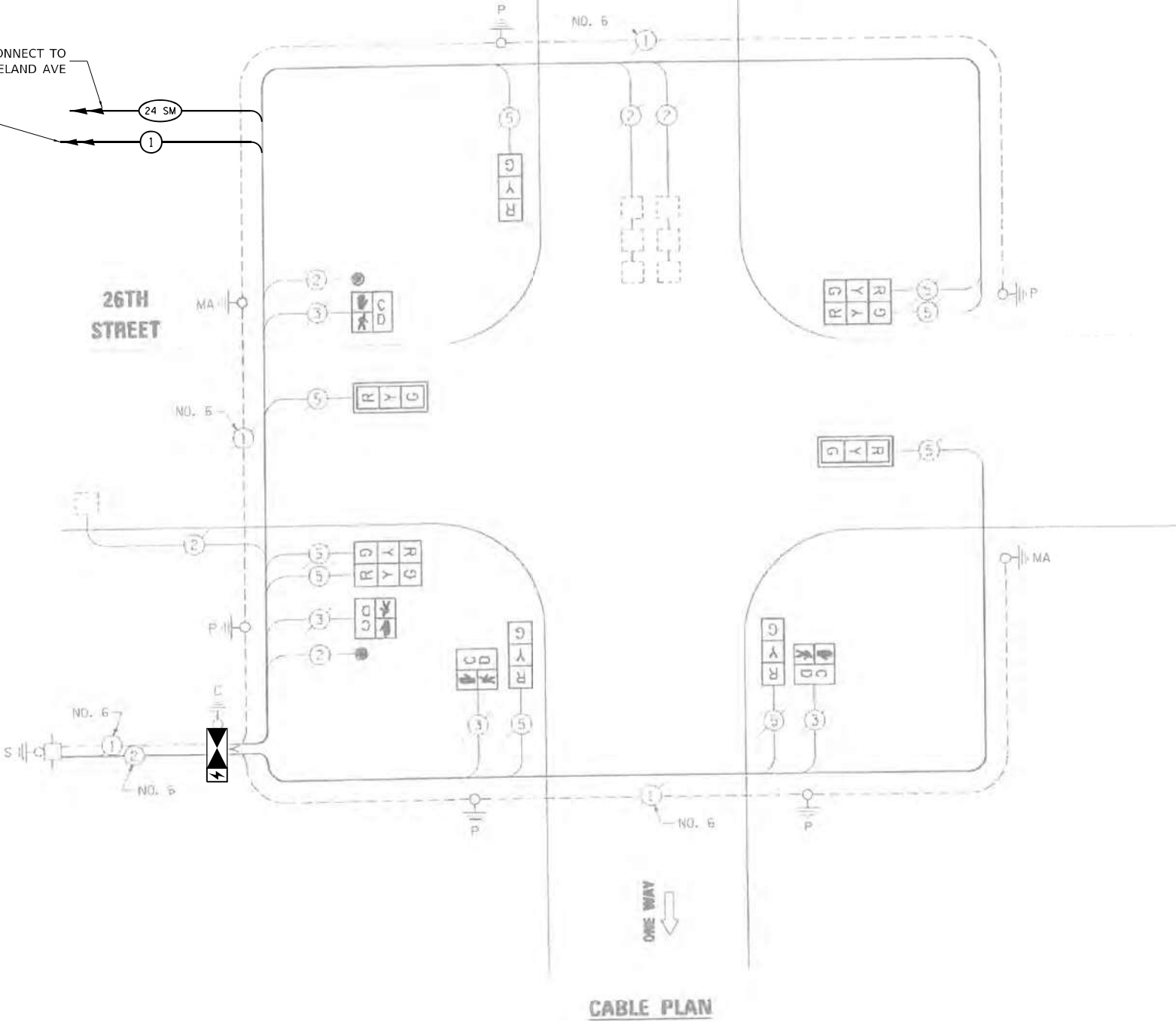
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH TRAFFIC SIGNAL CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY AND CABINET

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* * CENTRACS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
NETWORK SWITCH, ACCESS	EACH	1

* * CENTRACS LICENSE TO BE PROVIDED BY IDOT TRAFFIC



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND./ LED	WATTAGE OPERATION	WATTAGE OPERATION	
SIGNAL (RED)	4	135	17	0.50	76.5
(YELLOW)	4	135	25	0.25	56.25
(GREEN)	4	135	15	0.25	33.75
ARROW		135	12	0.10	
PEU. SIGNAL	4	40	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84	100	0.50	
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196 1096					TOTAL = 366.5
ENERGY SUPPLY CONTACT: X					
PHONE: X					
COMPANY: X					

iteris

USER NAME	= bfunk
PLOT SCALE	= 100,000 ' / in.
PLOT DATE	= 3/23/2026

DESIGNED	- TZ
DRAWN	- TZ
CHECKED	- BF
DATE	- 3/20/26

REVISED	-
REVISED	-
REVISED	-
REVISED	-

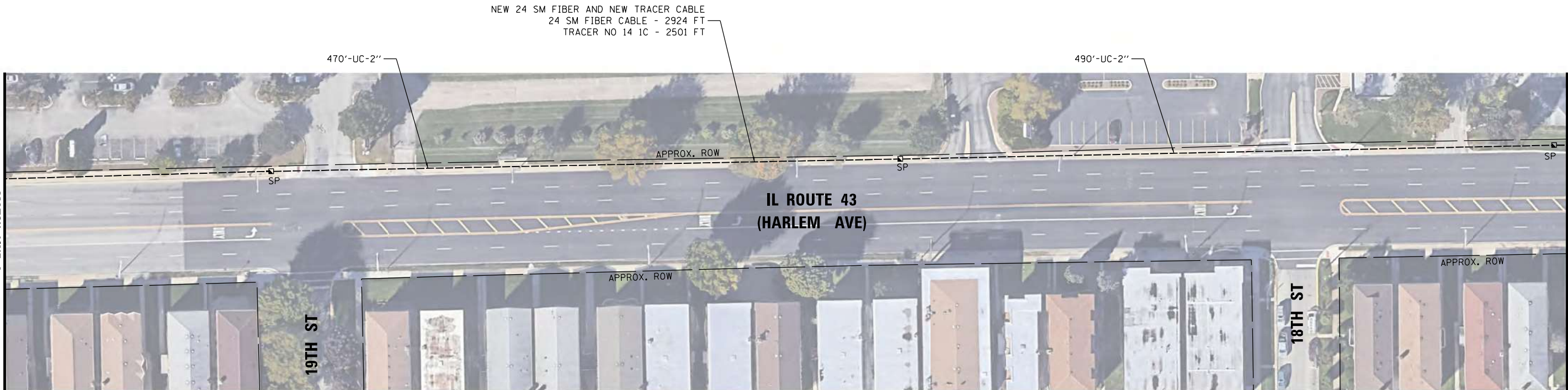
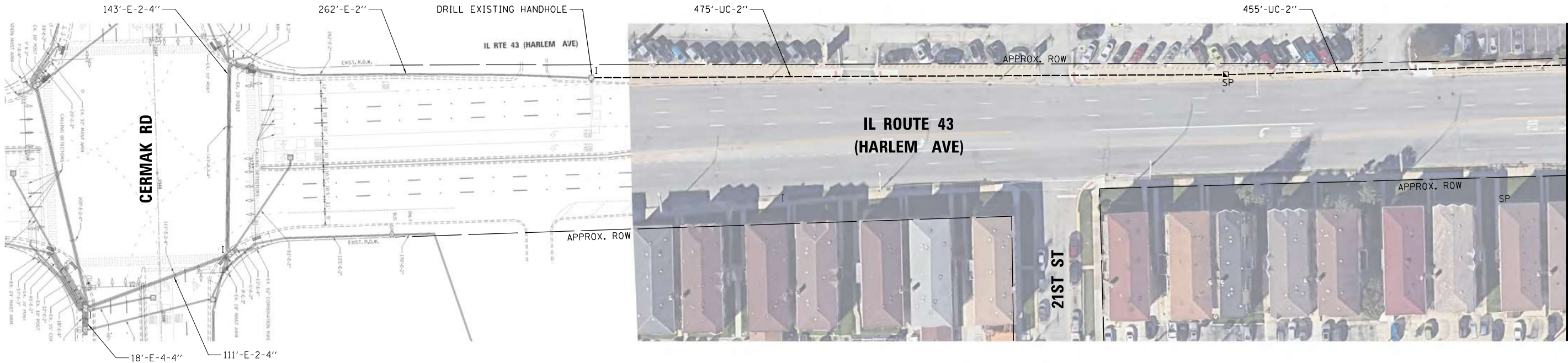
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
26TH STREET AND HIGHLAND AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	47
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

TS 3745
IDOT CENTRACS
SECTION 30



MODEL: Default
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iteris

PLOT SCALE = 100,0000' / in. PLOT DATE = 5/5/2026	USER NAME = bfunk	DESIGNED - BF	REVISED -
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	CHECKED - AG	REVISED -	REVISED -
	DATE - 5/4/26	REVISED -	REVISED -

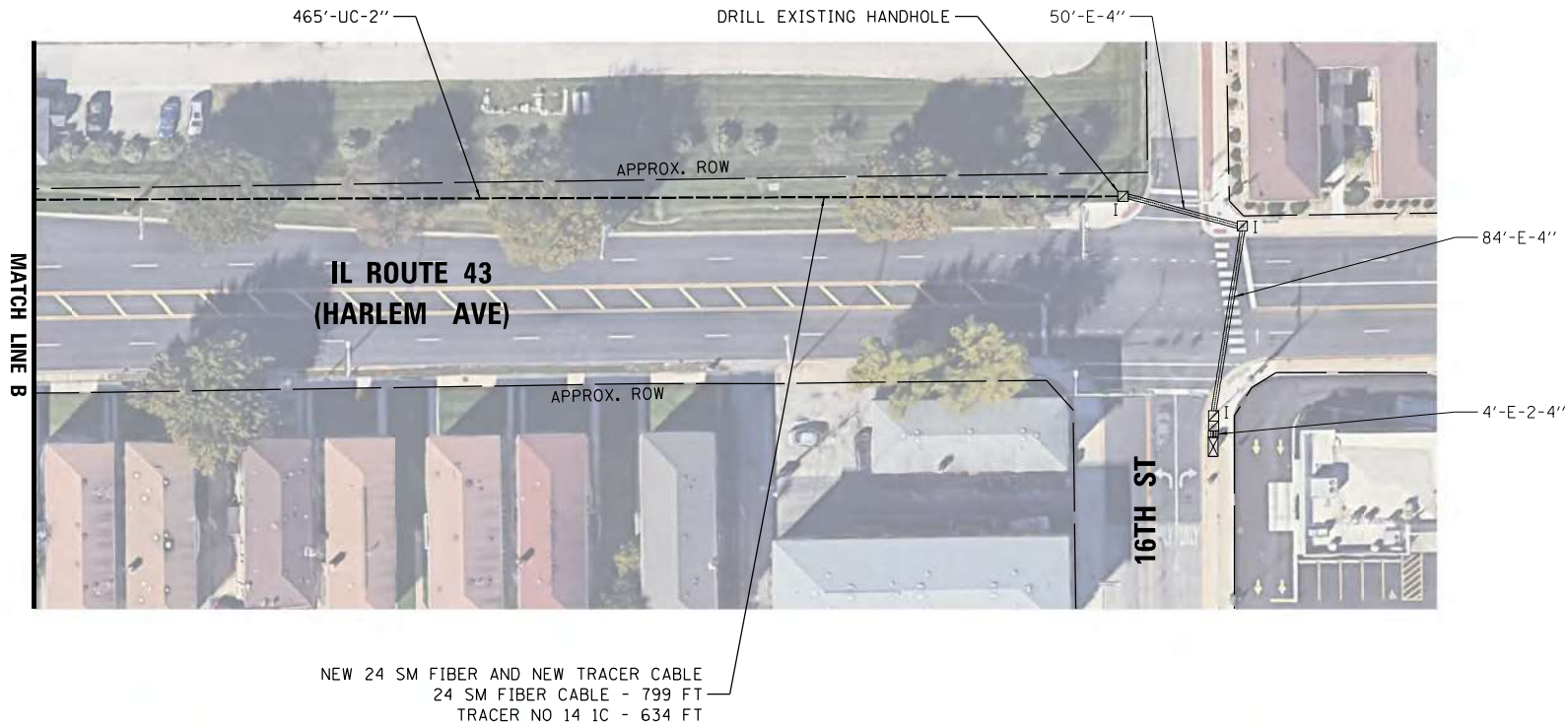
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION D
IL ROUTE 43 (HARLEM AVENUE) - CERMAK ROAD TO 16TH STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	48
CONTRACT NO. 62W91				
ILLINOIS		FED. AID PROJECT		

IDOT CENTRACS
SECTION 30



IDOT CENTRACS
SECTION 30



USER NAME	= bfunk
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 5/5/2026

DESIGNED	-	BF
DRAWN	-	BF
CHECKED	-	AG
DATE	-	5/4/26

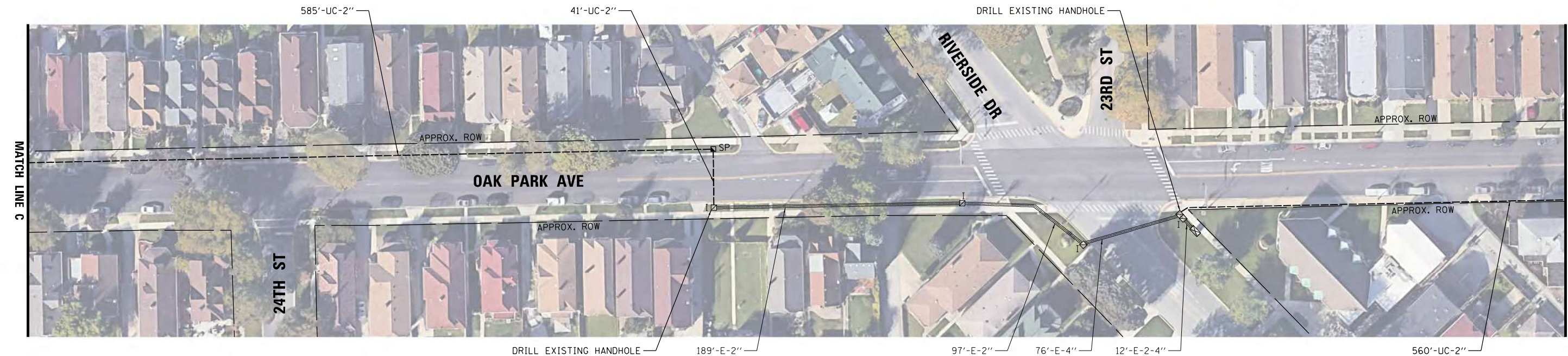
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN – LOCATION D
IL ROUTE 43 (HARLEM AVENUE) – CERMAK ROAD TO 16TH STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	49
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	



IDOT CENTRACS
SECTION 30

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100,000 ' / in.	CHECKED - AG	REVISED -
PLOT DATE = 5/5/2026	DATE - 5/4/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION D
OAK PARK AVENUE - 26TH STREET TO 16TH STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	50
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				



IDOT CENTRACS
SECTION 30



USER NAME	= bfunk
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 5/5/2026

DESIGNED -	BF
DRAWN -	BF
CHECKED -	AG
DATE -	5/4/26

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION D
OAK PARK AVENUE - 26TH STREET TO 16TH STREET

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	51
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	



MODEL: Default
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IDOT CENTRACS
SECTION 30



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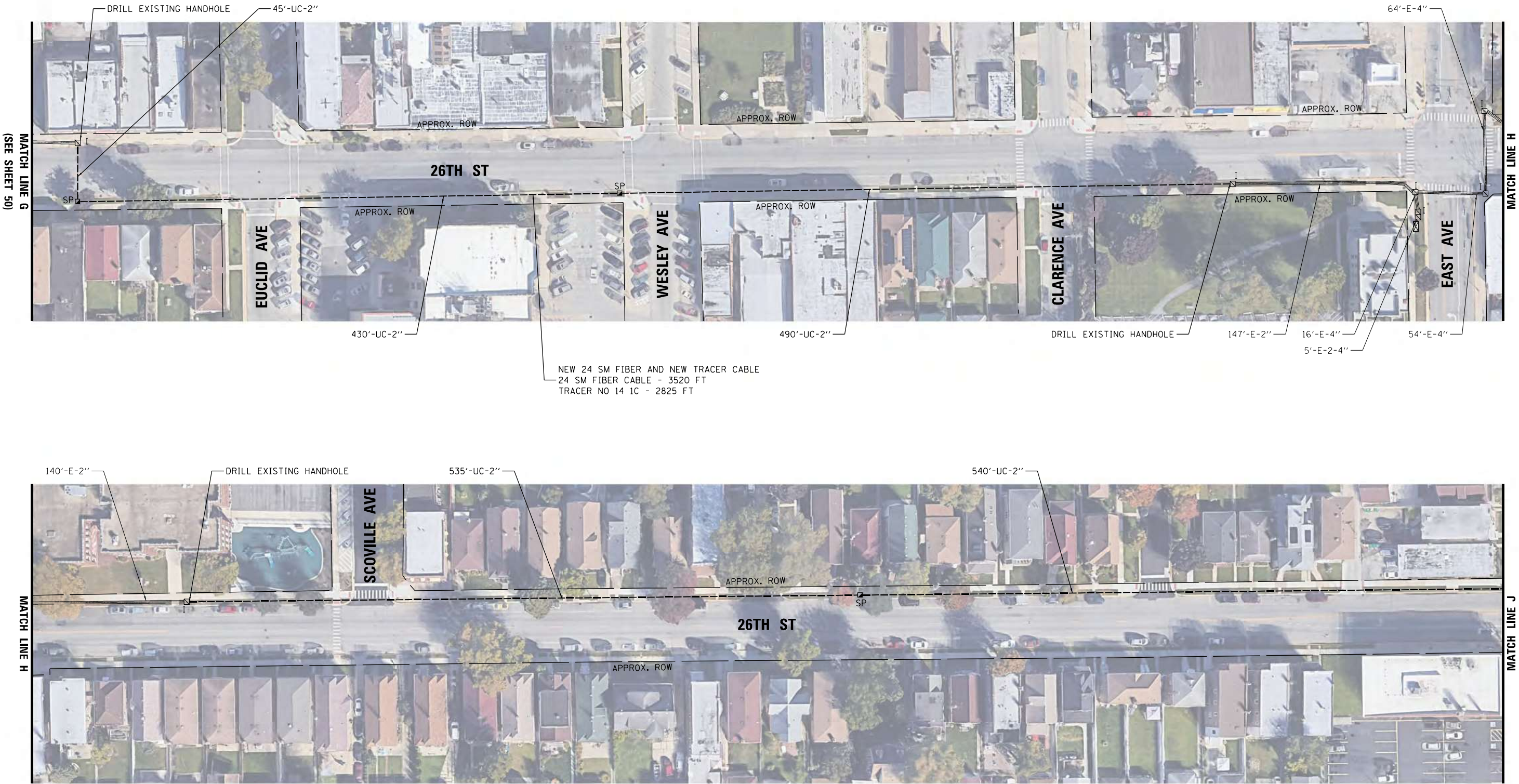
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION D
OAK PARK AVENUE - 26TH STREET TO 16TH STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	52
CONTRACT NO. 62W91				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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IDOT CENTRACS
SECTION 30



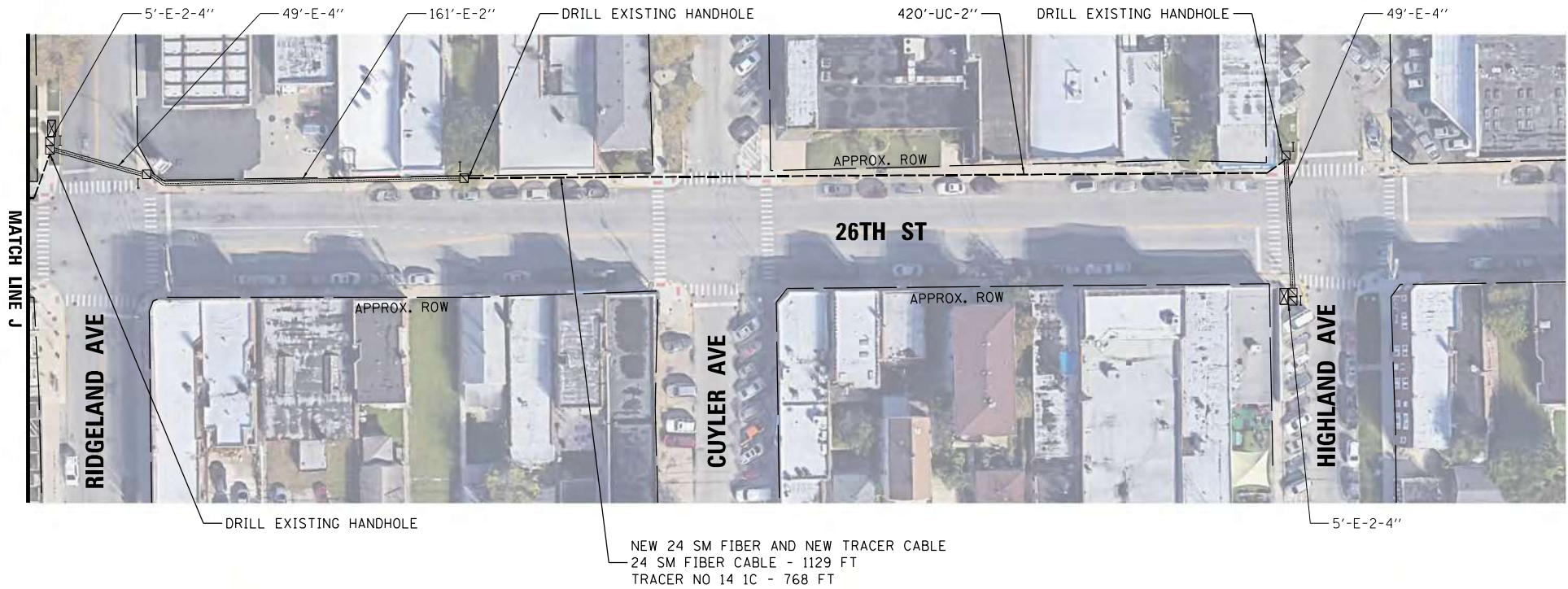
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PLOT DATE = 5/5/2026	DATE - 5/4/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION D
26TH STREET - OAK PARK AVENUE TO HIGHLAND AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	53
				CONTRACT NO. 62W91
		ILLINOIS	FED. AID PROJECT	



MODEL: Default
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IDOT CENTRACS
SECTION 30



USER NAME = bfunk	DESIGNED - BF	REVISED -
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PLOT DATE = 5/5/2026	DATE - 5/4/26	REVISED -

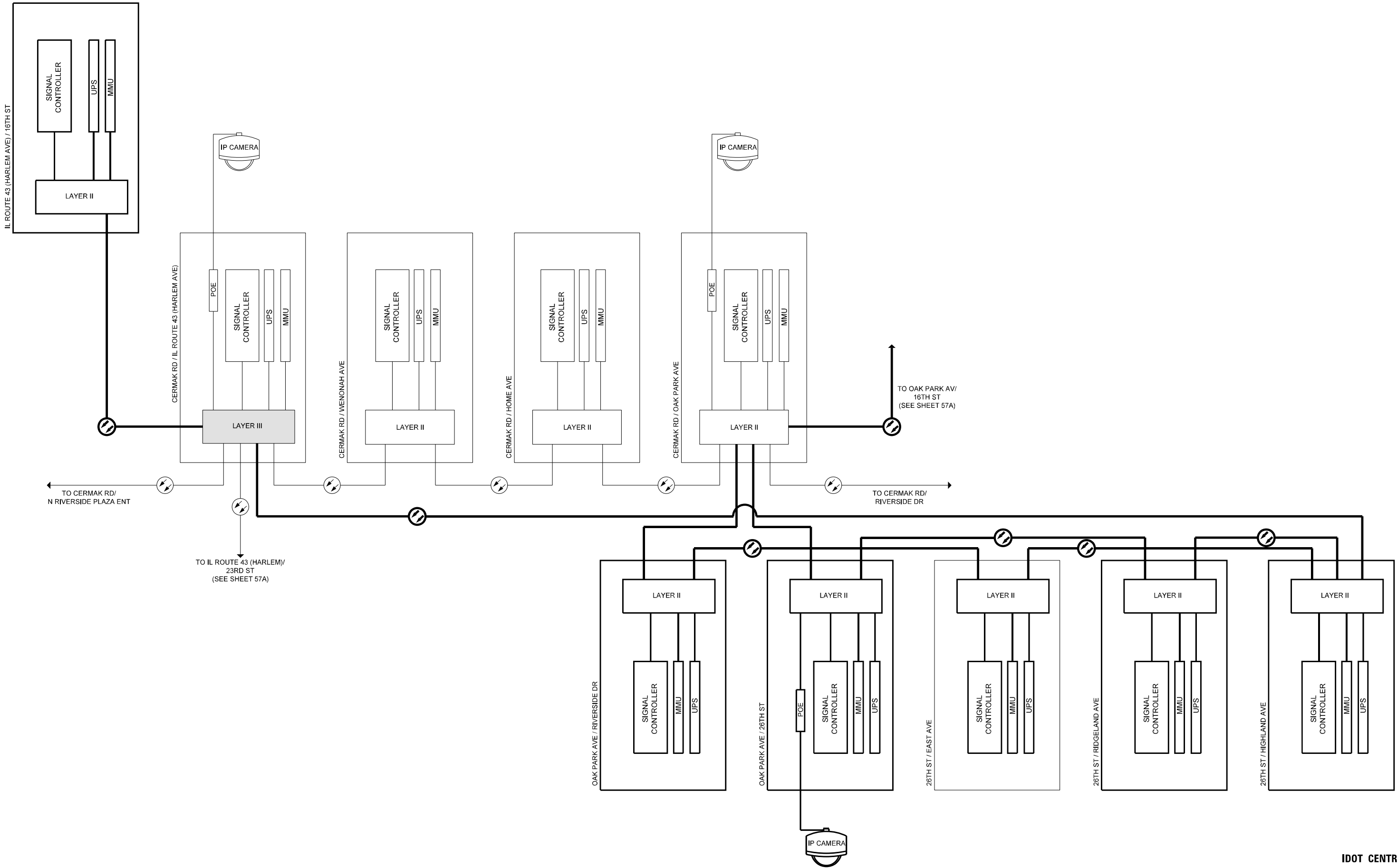
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - LOCATION D
26TH STREET - OAK PARK AVENUE TO HIGHLAND AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	54
CONTRACT NO. 62W91				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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IDOT CENTRACS
SECTION 30



USER NAME	= bfunk
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 5/5/2026

DESIGNED	-	BF
DRAWN	-	BF
CHECKED	-	AG
DATE	-	5/5/26

REVISED	-
REVISED	-
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REVISED	-

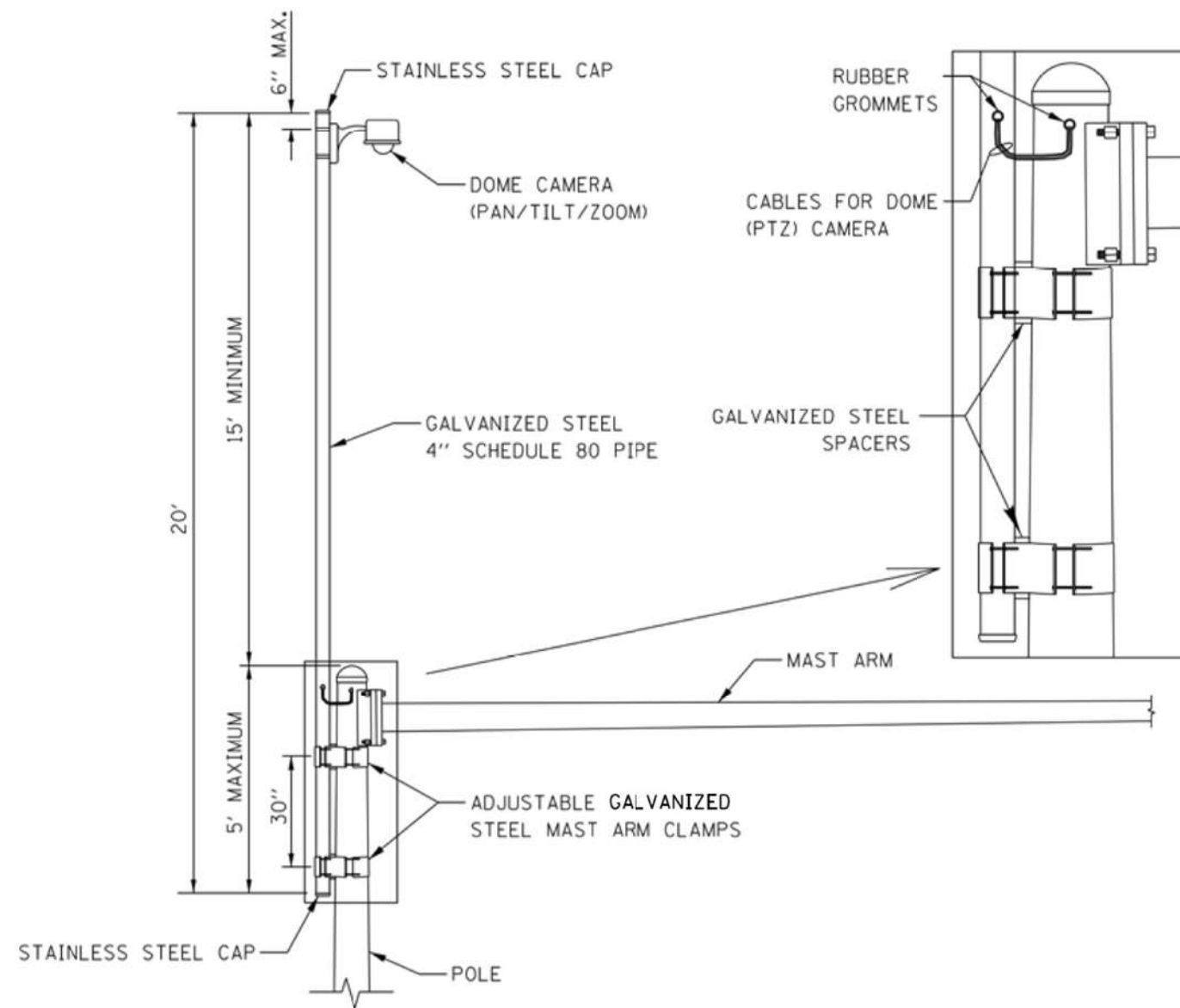
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET DETAIL SHEET
INTERCONNECT D

SCALE: SHEET OF SHEETS STA. TO STA.

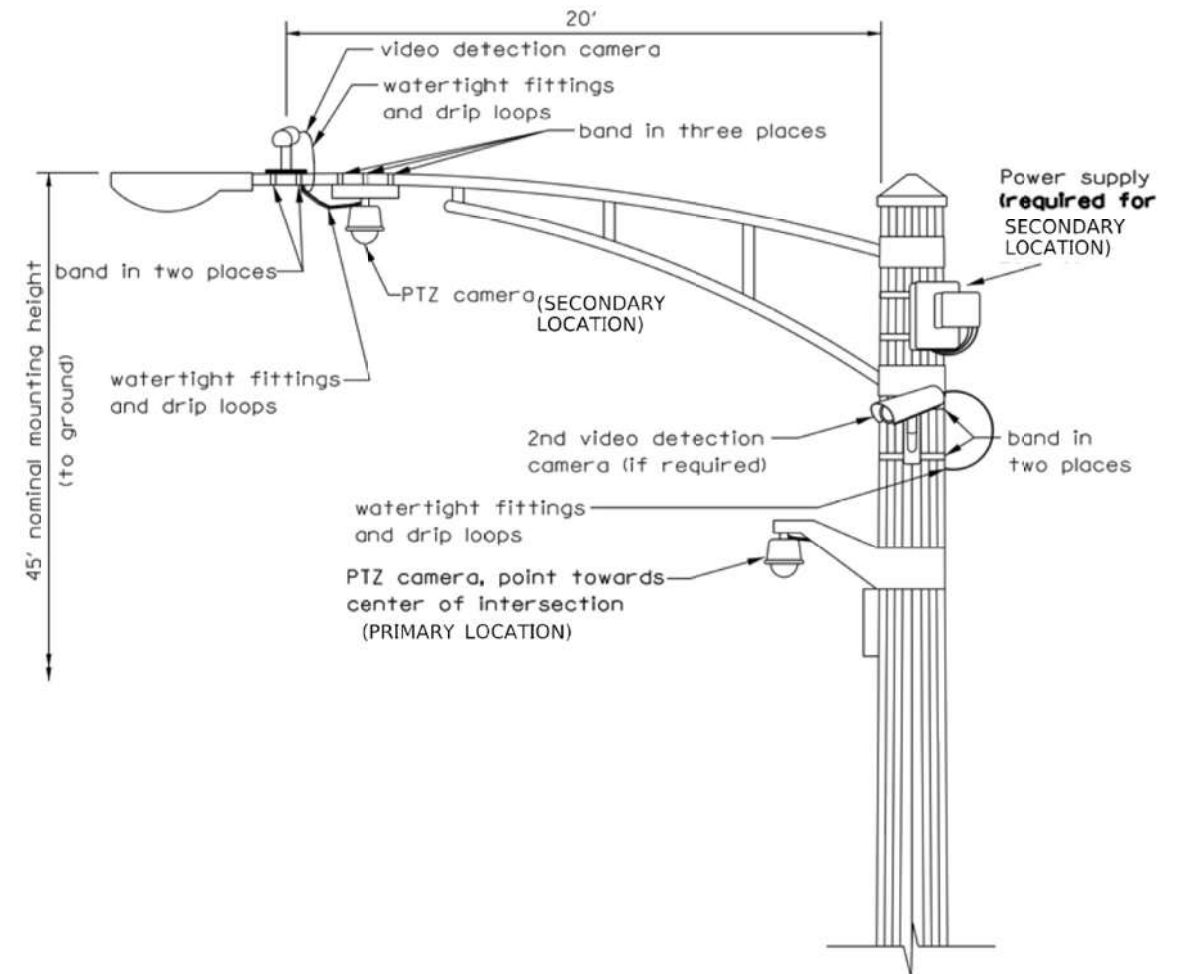
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2024-966-TS	COOK	60	57
CONTRACT NO. 62W91				
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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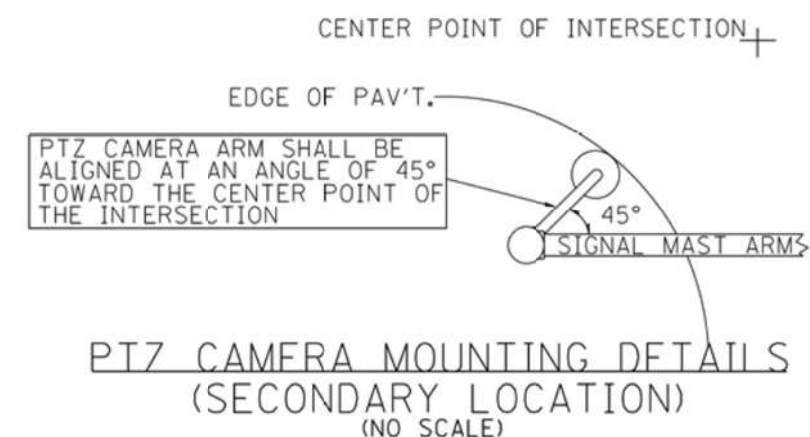
CAMERA MOUNTING ASSEMBLY DETAIL
(NOT TO SCALE)

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



VIDEO DETECTION CAMERA(S) AND
DOME (PTZ) CAMERA MOUNTING DETAIL
(NOT TO SCALE)

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



PTZ CAMERA MOUNTING DETAILS
(SECONDARY LOCATION)
(NO SCALE)

