F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	1
	ILLINOIS	CONTRACT NO. XXXXX		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4–5

CITY OF JOLIET

DEPARTMENT OF PUBLIC WORKS

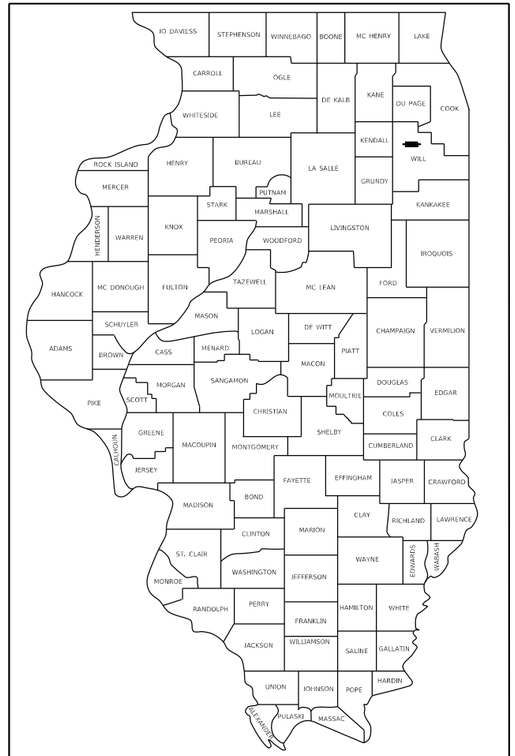
PROPOSED HIGHWAY PLANS

ADVANCED TRAFFIC MANAGEMENT SYSTEM

PHASE A

SECTION 21–00546–01–TL

WILL COUNTY



LOCATION OF SECTION INDICATED THUS: –

FOR LOCATION MAP
SEE SHEET NO. 3

LICENSED PROFESSIONAL ENGINEER
PATRICK BRIEN FUNK II
062-066194
OF ILLINOIS

4–23–2024

P. BRIEN FUNK II — DATE

EXPIRES: 11–30–2025

iteris

ITERIS, INC.
319 W STATE STREET, SUITE 200
GENEVA, IL 60134

IL DESIGN FIRM NO: 184007145–0002

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

CITY OF JOLIET

APPROVED May 2 20 24

DIRECTOR OF PUBLIC WORKS

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET
JOLIET, ILLINOIS 60431
(815)–724–4200

CONTRACT NO. XXXXX

INDEX OF SHEETS

SHT NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
3	LOCATION MAP
4-5	SUMMARY OF QUANTITIES
6-12	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)
13	DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS (TS-02)

SHT NO.	LOCATION NO.	INTERSECTION
15-15	1	US ROUTE 30 (JEFFERSON ST) AND US ROUTE 30 (CENTER ST)
17-17	2	US ROUTE 30 (JEFFERSON ST) AND HICKORY ST
18-19	3	US ROUTE 30 (JEFFERSON ST) AND JOLIET ST
20-21	4	US ROUTE 30 (JEFFERSON ST) AND IL ROUTE 53 (OTTAWA ST)
22-23	5	US ROUTE 30 (JEFFERSON ST) AND CHICAGO ST
24-25	6	US ROUTE 30 (JEFFERSON ST) AND IL ROUTE 53 (SCOTT ST)
26-27	7	US ROUTE 30 (WESTERN AV) AND US ROUTE 30 (CENTER ST)
28-29	8	US ROUTE 30 (WESTERN AV) AND HICKORY ST
30-31	9	US ROUTE 30 (CASS ST) AND JOLIET ST
32-33	10	US ROUTE 30 (CASS ST) AND IL ROUTE 53 (OTTAWA ST)
34-35	11	US ROUTE 30 (CASS ST) AND CHICAGO ST
36-37	12	US ROUTE 30 (CASS ST) AND IL ROUTE 53 (SCOTT ST)
38-39	13	IL ROUTE 53 (OTTAWA ST) AND WASHINGTON ST
40-41	14	IL ROUTE 53 (OTTAWA ST) AND VAN BUREN ST
42-43	15	IL ROUTE 53 (OTTAWA ST) AND CLINTON ST
44-45	16	IL ROUTE 53 (SCOTT ST) AND VAN BUREN ST
46-47	17	IL ROUTE 53 (SCOTT ST) AND CLINTON ST
48-49	18	JOLIET ST AND VAN BUREN ST
50-51	19	JOLIET ST AND CLINTON ST
52-53	20	IL ROUTE 53 (SCOTT ST) AND JACKSON ST
54-55	21	IL ROUTE 53 (SCOTT ST) AND CLAY ST
56-57	22	IL ROUTE 53 (SCOTT ST) AND OHIO ST
58-59	23	JACKSON ST AND JOLIET ST
60-62	24	JACKSON ST AND IL ROUTE 53 (OTTAWA ST)
63-64	25	JACKSON ST AND CHICAGO ST
65-66	26	US ROUTE 6 (COLLINS ST) AND HERKIMER DR
67-68	27	US ROUTE 30 (CASS ST) AND US ROUTE 6 (COLLINS ST)
69-70	28	US ROUTE 30 (CASS ST) AND EASTERN AV
71-72	29	US ROUTE 30 (JEFFERSON ST) AND EASTERN AV
73-74	30	US ROUTE 30 (JEFFERSON ST) AND RICHARDS ST
75-76	31	IL ROUTE 7 (LARKIN AV) AND McDONOUGH ST
77-78	32	IL ROUTE 7 (LARKIN AV) AND COMMERCIAL
79-80	33	IL ROUTE 7 (LARKIN AV) AND GLENWOOD AV
81-82	34	IL ROUTE 7 (LARKIN AV) AND BLACK RD
83-84	35	IL ROUTE 7 (LARKIN AV) AND INGALLS AV
85-86	36	US ROUTE 52 (JEFFERSON ST) AND HOUBOLT RD
87-88	37	US ROUTE 52 (JEFFERSON ST) AND ESSINGTON RD
89-90	38	US ROUTE 52 (JEFFERSON ST) AND INWOOD ATHLETIC CLUB
91-92	39	US ROUTE 52 (JEFFERSON ST) AND INFANTRY DR
93-94	40	US ROUTE 52 (JEFFERSON ST) AND CATERPILLAR DR
95-96	41	US ROUTE 52 (JEFFERSON ST) AND ARNEY DR
97-98	42	US ROUTE 52 (JEFFERSON ST) AND SPRINGFIELD AV
99-100	43	US ROUTE 52 (JEFFERSON ST) AND HAMMES AV
101-102	44	US ROUTE 52 (JEFFERSON ST) AND IL ROUTE 7 (LARKIN AV)
103-104	45	US ROUTE 52 (JEFFERSON ST) AND WOODLAWN AV/STRYKER AV
105-106	46	US ROUTE 52 (JEFFERSON ST) AND MIDLAND AV
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109-110	48	US ROUTE 52 (JEFFERSON ST) AND RAYNOR AV
111-114		INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
115-117		INTERCONNECT PLAN
118-120		FIBER SPLICING DIAGRAM
121		FIBER TERMINATION DETAILS
122-123		SOIL BORING LOGS
124		TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
125		ARTERIAL ROAD INFORMATION SIGN (TC-22)

IDOT HIGHWAY STANDARDS

STD NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
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
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
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
701901-08	TRAFFIC CONTROL DEVICES
814001-03	HANDHOLES

GENERAL NOTES

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

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

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 HOURS NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL BE RESPONSIBLE AT THEIR OWN EXPENSE FOR LOCATING EXISTING IDOT/CITY ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK.

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

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

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. , AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGED TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS.

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

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.

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

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

ALL SIGNALS INCLUDED IN THIS CONTRACT ARE MAINTAINED BY THE CITY OF JOLIET. THE CONTRACTOR SHALL COORDINATE WORK AND ARRANGE FOR ANY MAINTENANCE TRANSFERS WITH THE CITY OF JOLIET TRAFFIC SIGNAL MAINTENANCE AT 815-724-3661.

NETWORK SWITCHES SHALL BE OBTAINED FROM THE CITY OF JOLIET. CONTRACTOR SHALL CONTACT CITY TRAFFIC SIGNAL MAINTENANCE TO ARRANGE PICKUP.

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CITY OF JOLIET

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	21-00546-01-TL	WILL	125	2
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

LOCATION MAP

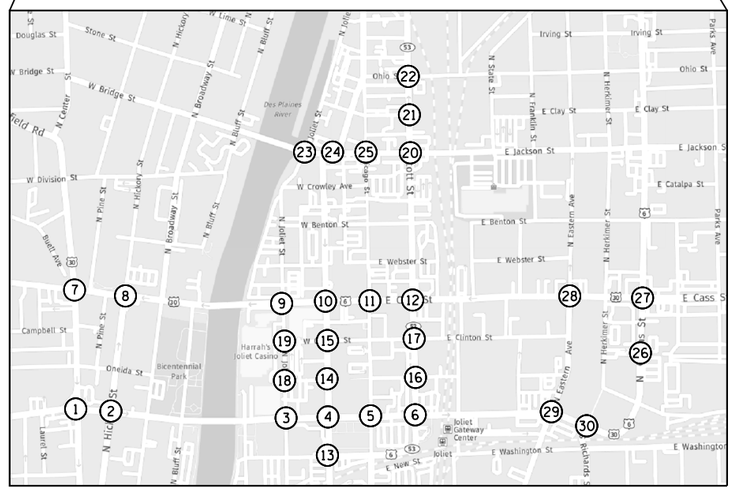


SUMMARY OF LOCATIONS

NO.	SHEET	SYSTEM	TS NO.	INTERSECTION/INTERCONNECT
1	14	ECON 121	22526	US ROUTE 30 (JEFFERSON ST) AND US ROUTE 30 (CENTER ST)
2	16	ECON 121	22527	US ROUTE 30 (JEFFERSON ST) AND HICKORY ST
3	18	ECON 121	22528	US ROUTE 30 (JEFFERSON ST) AND JOLIET ST
4	20	ECON 121	22529	US ROUTE 30 (JEFFERSON ST) AND IL ROUTE 53 (OTTAWA ST)
5	22	ECON 121	22530	US ROUTE 30 (JEFFERSON ST) AND CHICAGO ST
6	24	ECON 121	22531	US ROUTE 30 (JEFFERSON ST) AND IL ROUTE 53 (SCOTT ST)
7	26	ECON 121	22532	US ROUTE 30 (WESTERN AV) AND US ROUTE 30 (CENTER ST)
8	28	ECON 121	22533	US ROUTE 30 (WESTERN AV) AND HICKORY ST
9	30	ECON 121	22534	US ROUTE 30 (CASS ST) AND JOLIET ST
10	32	ECON 121	22535	US ROUTE 30 (CASS ST) AND IL ROUTE 53 (OTTAWA ST)
11	34	ECON 121	22536	US ROUTE 30 (CASS ST) AND CHICAGO ST
12	36	ECON 121	21803	US ROUTE 30 (CASS ST) AND IL ROUTE 53 (SCOTT ST)
13	38	ECON 121	22537	IL ROUTE 53 (OTTAWA ST) AND WASHINGTON ST
14	40	ECON 121	22545	IL ROUTE 53 (OTTAWA ST) AND VAN BUREN ST
15	42	ECON 121	22539	IL ROUTE 53 (OTTAWA ST) AND CLINTON ST
16	44	ECON 121	22538	IL ROUTE 53 (SCOTT ST) AND VAN BUREN ST
17	46	ECON 121	22540	IL ROUTE 53 (SCOTT ST) AND CLINTON ST
18	48	ECON 121	22543	JOLIET ST AND VAN BUREN ST
19	50	ECON 121	XXXXX	JOLIET ST AND CLINTON ST
20	52	ECON 122	21802	IL ROUTE 53 (SCOTT ST) AND JACKSON ST
21	54	ECON 122	21801	IL ROUTE 53 (SCOTT ST) AND CLAY ST
22	56	ECON 122	21800	IL ROUTE 53 (SCOTT ST) AND OHIO ST
23	58	ECON 122	22568	JACKSON ST AND JOLIET ST
24	60	ECON 122	22546	JACKSON ST AND IL ROUTE 53 (OTTAWA ST)

SUMMARY OF LOCATIONS

NO.	SHEET	SYSTEM	TS NO.	INTERSECTION/INTERCONNECT
25	63	ECON 122	XXXXX	JACKSON ST AND CHICAGO ST
26	65	ECON 123	7613	US ROUTE 6 (COLLINS ST) AND HERKIMER DR
27	67	ECON 123	21781	US ROUTE 30 (CASS ST) AND US ROUTE 6 (COLLINS ST)
28	69	ECON 123	21780	US ROUTE 30 (CASS ST) AND EASTERN AV
29	71	ECON 123	21782	US ROUTE 30 (JEFFERSON ST) AND EASTERN AV
30	73	ECON 123	22563	US ROUTE 30 (JEFFERSON ST) AND RICHARDS ST
31	75	ECON 125	22521	IL ROUTE 7 (LARKIN AV) AND McDONOUGH ST
32	77	ECON 125	22522	IL ROUTE 7 (LARKIN AV) AND WAL-MART
33	79	ECON 125	22523	IL ROUTE 7 (LARKIN AV) AND GLENWOOD AV
34	81	ECON 125	22524	IL ROUTE 7 (LARKIN AV) AND BLACK RD
35	83	ECON 125	22525	IL ROUTE 7 (LARKIN AV) AND INGALLS AV
36	85	ECON 126	22509	US ROUTE 52 (JEFFERSON ST) AND HOUBOLT RD
37	87	ECON 126	22510	US ROUTE 52 (JEFFERSON ST) AND ESSINGTON RD
38	89	ECON 126	22564	US ROUTE 52 (JEFFERSON ST) AND INWOOD ATHLETIC CLUB
39	91	ECON 126	22511	US ROUTE 52 (JEFFERSON ST) AND INFANTRY DR
40	93	ECON 126	22512	US ROUTE 52 (JEFFERSON ST) AND CATERPILLAR DR
41	95	ECON 126	22513	US ROUTE 52 (JEFFERSON ST) AND BARNEY DR
42	97	ECON 126	22514	US ROUTE 52 (JEFFERSON ST) AND SPRINGFIELD AV
43	99	ECON 126	22515	US ROUTE 52 (JEFFERSON ST) AND HAMMES AV
44	101	ECON 126	22516	US ROUTE 52 (JEFFERSON ST) AND IL ROUTE 7 (LARKIN AV)
45	103	ECON 126	22517	US ROUTE 52 (JEFFERSON ST) AND WOODLAWN AV/STRYKER AV
46	105	ECON 126	22518	US ROUTE 52 (JEFFERSON ST) AND MIDLAND AV
47	107	ECON 126	22519	US ROUTE 52 (JEFFERSON ST) AND REED ST
48	109	ECON 126	22520	US ROUTE 52 (JEFFERSON ST) AND RAYNOR AV



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CITY OF JOLIET

LOCATION MAP

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	3
		CONTRACT NO. XXXXX		
		ILLINOIS	FED. AID PROJECT	

CODE NUMBER	ITEM DESCRIPTION	UNIT	100% REBUILD ILLINOIS TOTAL QUANTITY
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	20
67100100	MOBILIZATION	L SUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3317
81400100	HANDHOLE	EACH	7
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	48
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	32409
87900200	DRILL EXISTING HANDHOLE	EACH	4
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	48
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	9
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	14000
X0326248	ATMS SOFTWARE (CORE MODULE)	L SUM	1
X1400217	TERMINATE FIBER IN CABINET	EACH	636

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CITY OF JOLIET

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	4
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

CODE NUMBER	ITEM DESCRIPTION	UNIT	100% REBUILD ILLINOIS TOTAL QUANTITY
X1400219	SPLICE FIBER IN CABINET	EACH	564
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	6
X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	28519
	FIBER OPTIC CABLE 72 FIBERS, SINGLE MODE	FOOT	32907

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

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

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

TS SHT NO.1

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CITY OF JOLIET

DISTRICT ONE

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	6
		CONTRACT NO. XXXXX		
		ILLINOIS	FED. AID PROJECT	

LOOP DETECTOR NOTES

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

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

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

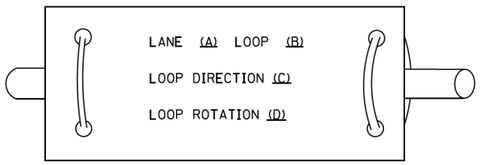
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

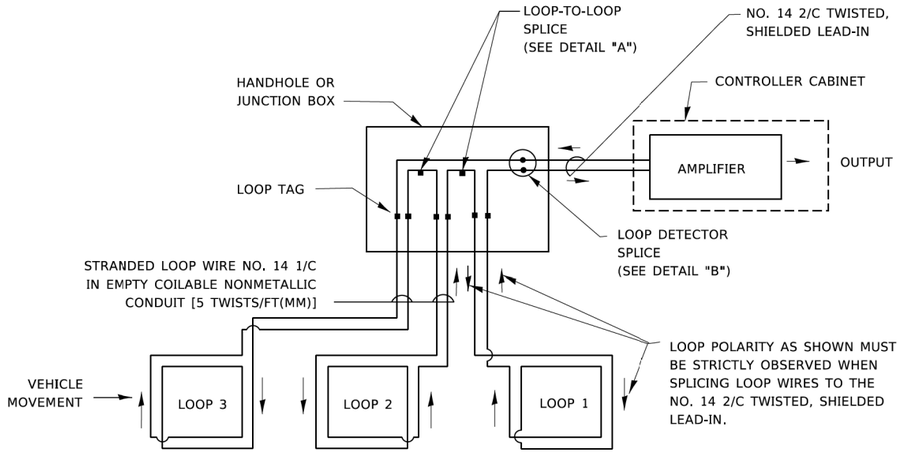
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

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

LOOP LEAD-IN CABLE TAG

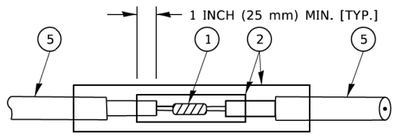


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

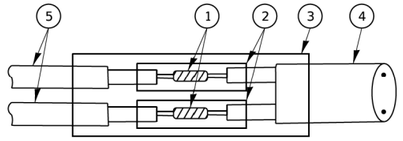


DETECTOR LOOP WIRING SCHEMATIC

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

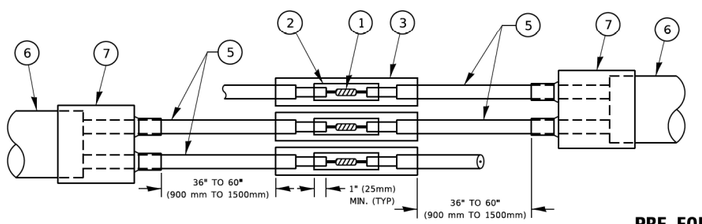


DETAIL "A"
LOOP-TO-LOOP SPLICE

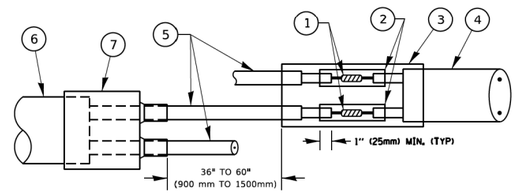


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP

(6) XL POLYOLEFIN 2 CONDUCTOR

(7) BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

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CITY OF JOLIET

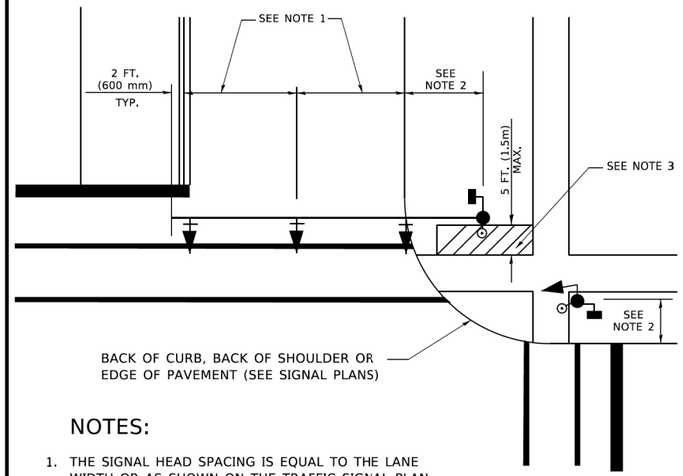
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	7
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

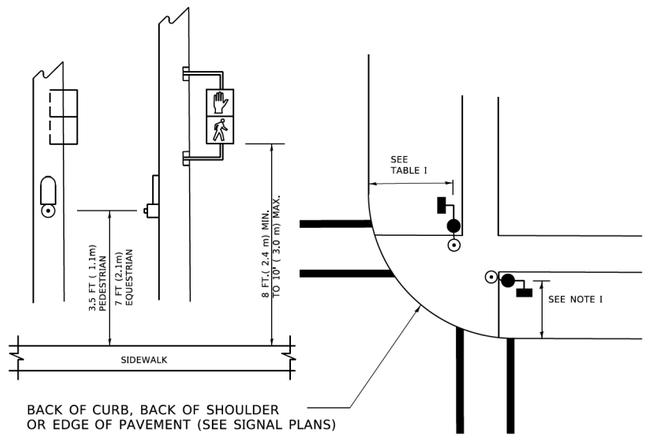
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

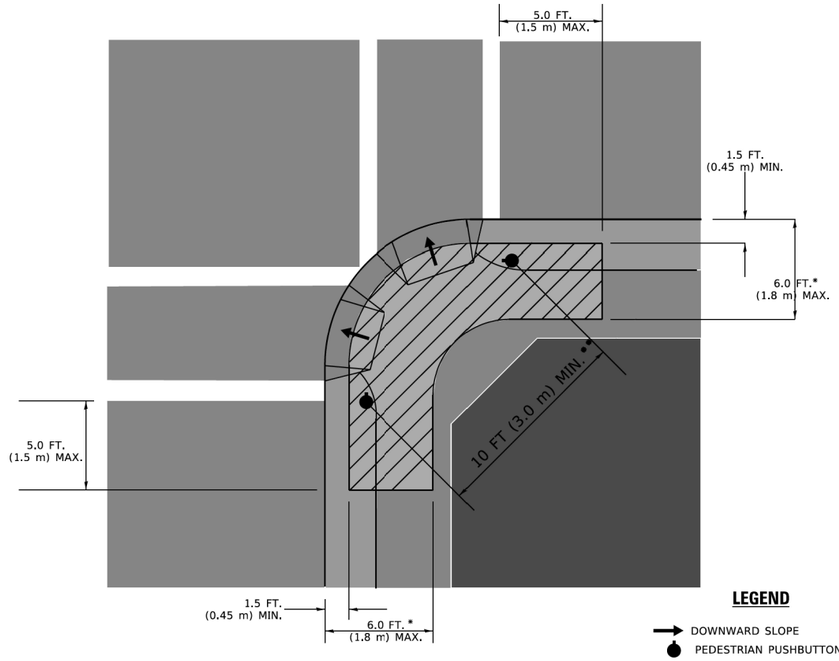
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

TS SHT NO. 3

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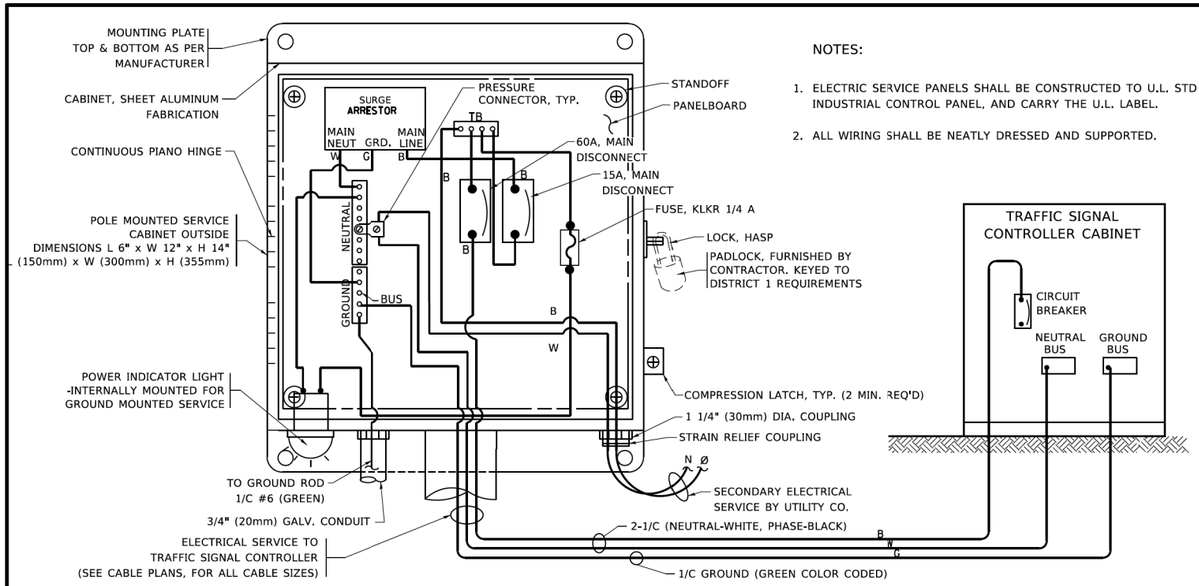
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CITY OF JOLIET

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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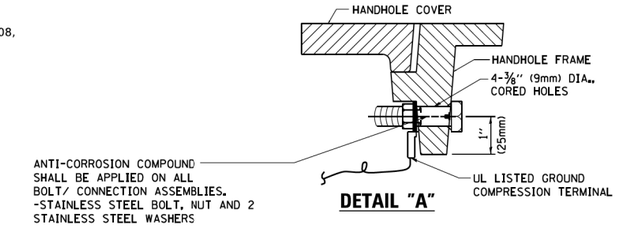
NOTES:

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

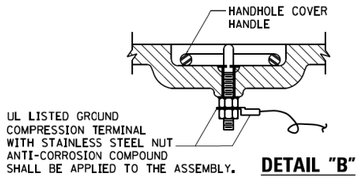
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

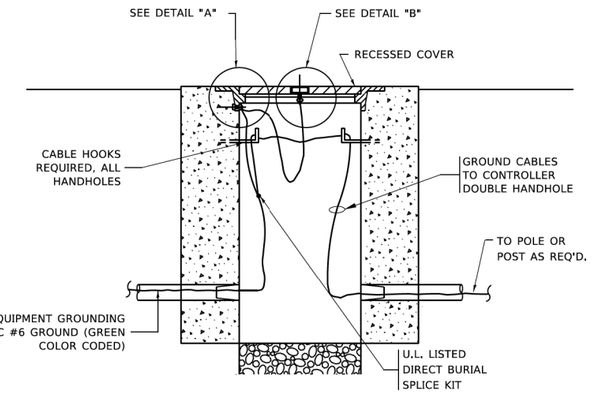


DETAIL "B"

NOTES:

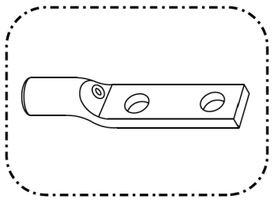
GROUNDING SYSTEM

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

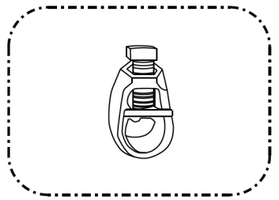


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



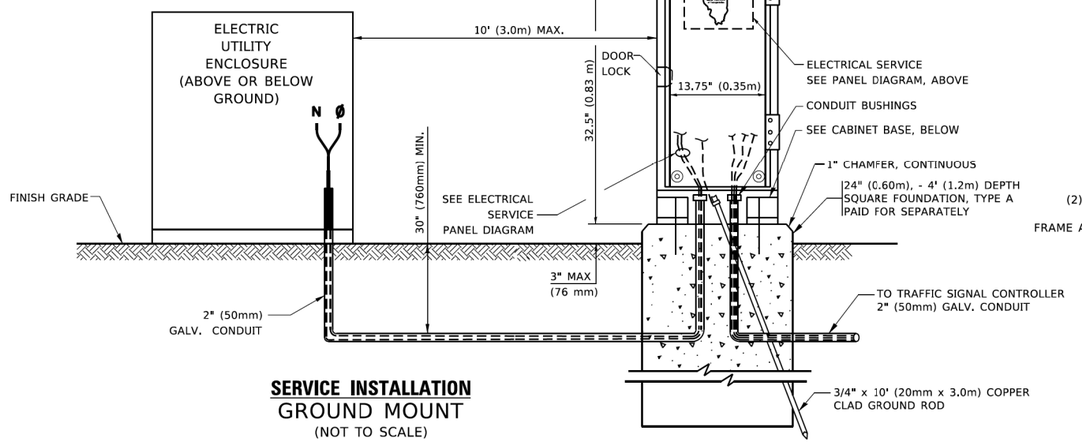
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

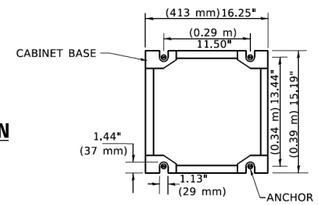
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION

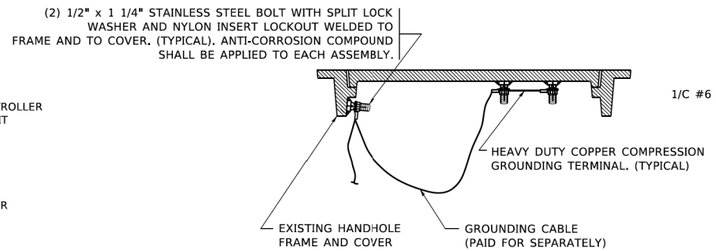
GROUND MOUNT

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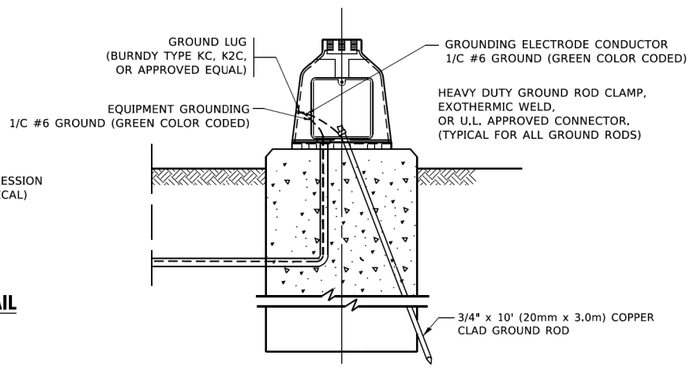
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE /POST–GROUNDING DETAIL

(NOT TO SCALE)

TS SHT NO. 4

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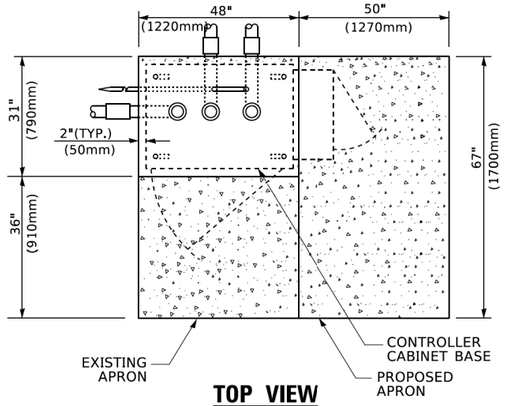
CITY OF JOLIET

DISTRICT ONE

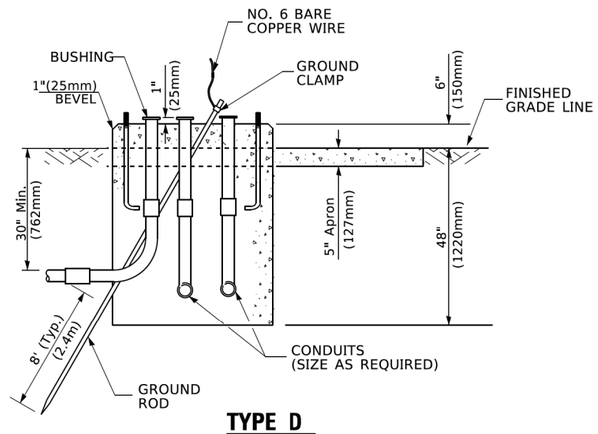
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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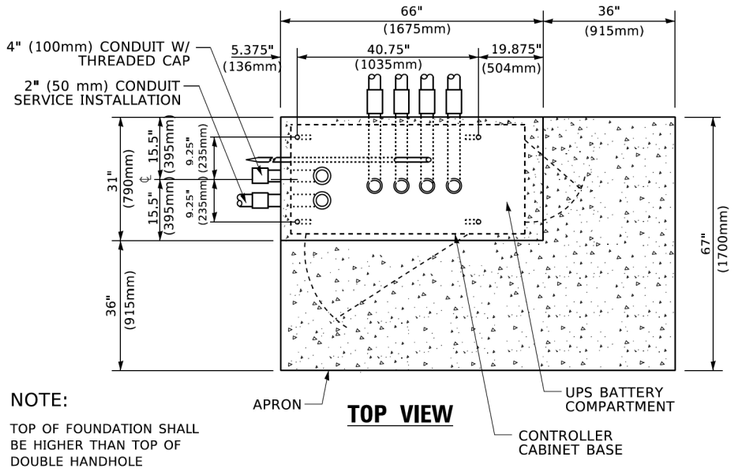
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TOP VIEW



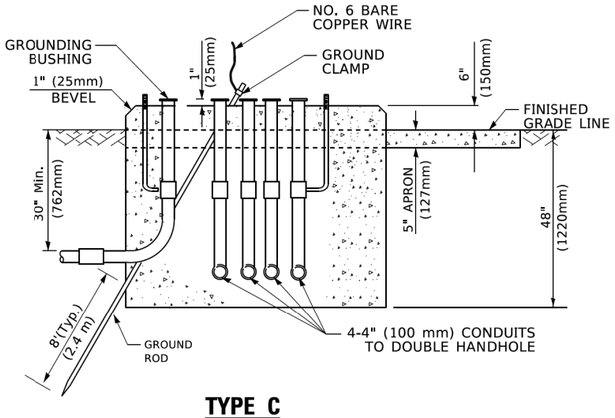
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



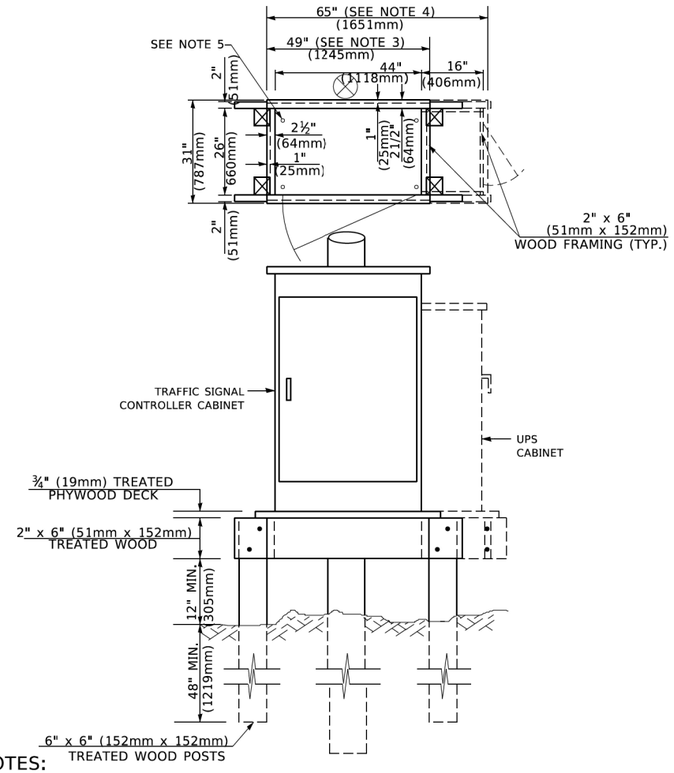
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



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



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5

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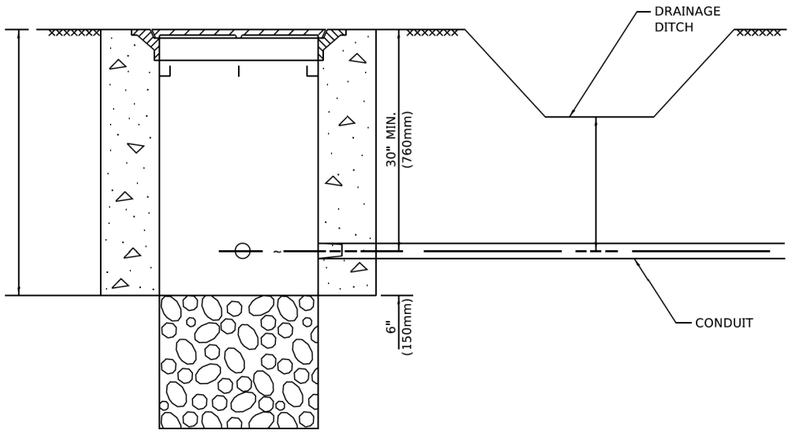
CITY OF JOLIET

DISTRICT ONE

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	10
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

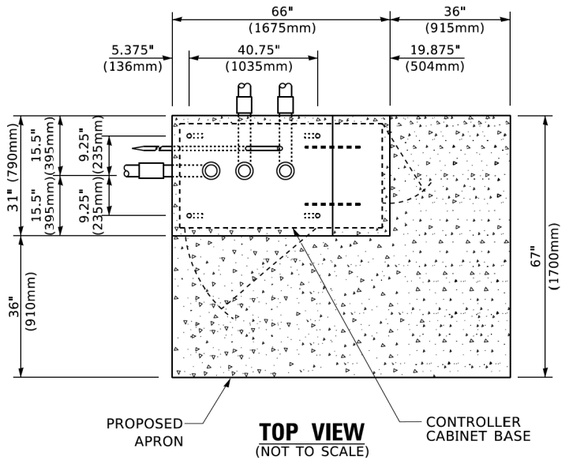


NOTES:

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

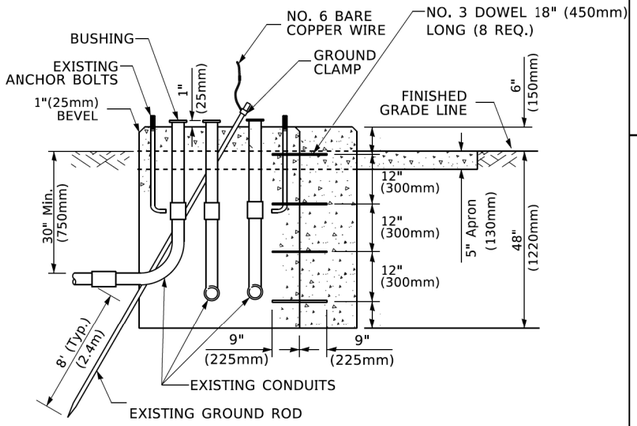
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



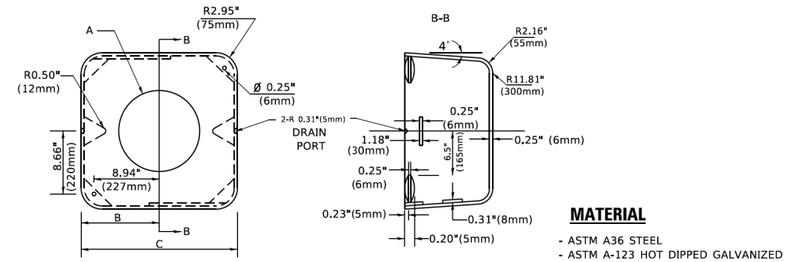
TOP VIEW

(NOT TO SCALE)



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

(NOT TO SCALE)



MATERIAL

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

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

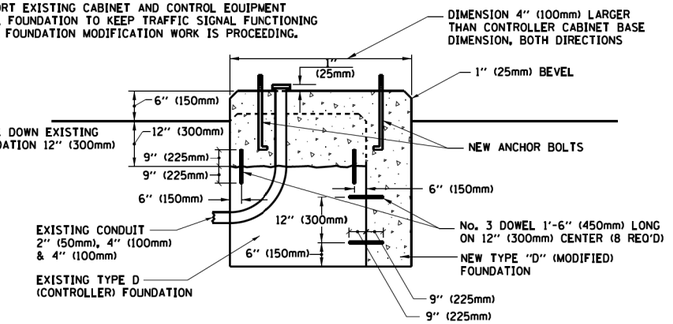
SHROUD

NOTES:

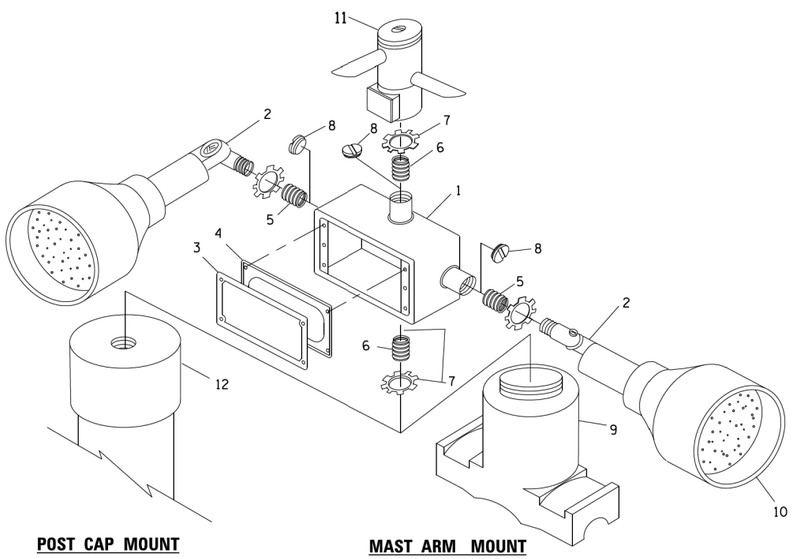
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



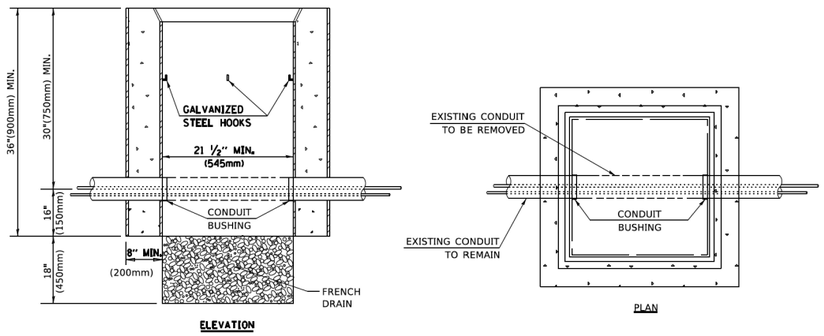
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

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



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

TS SHT NO. 6

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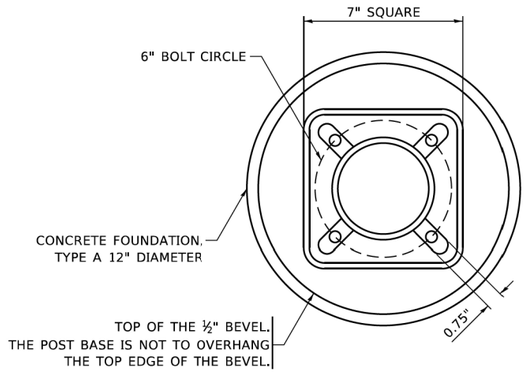
CITY OF JOLIET

DISTRICT ONE

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

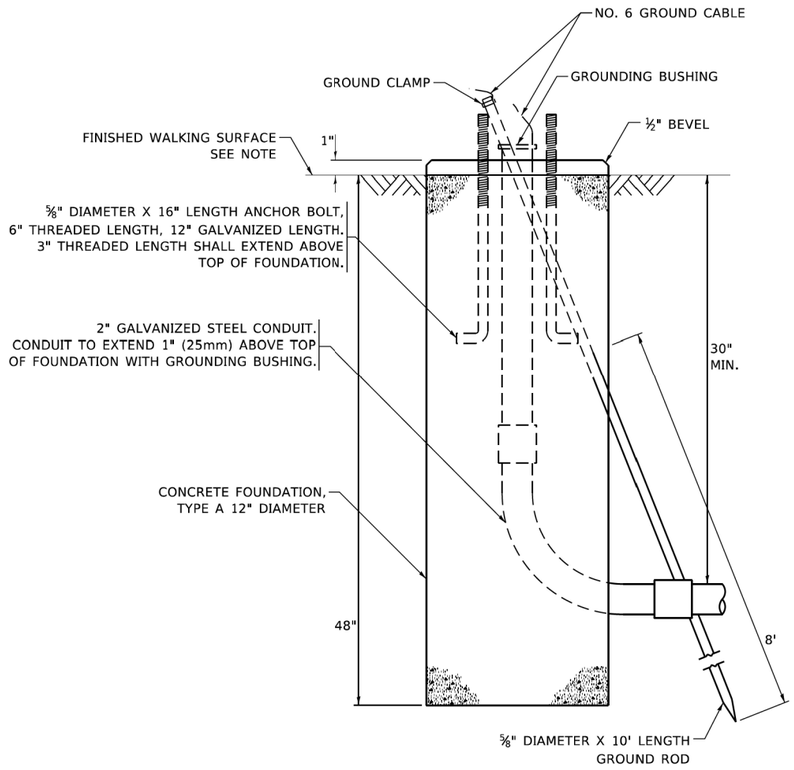
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VAR	21-00546-01-TL	WILL	125	11
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	ILLINOIS FED. AID PROJECT			



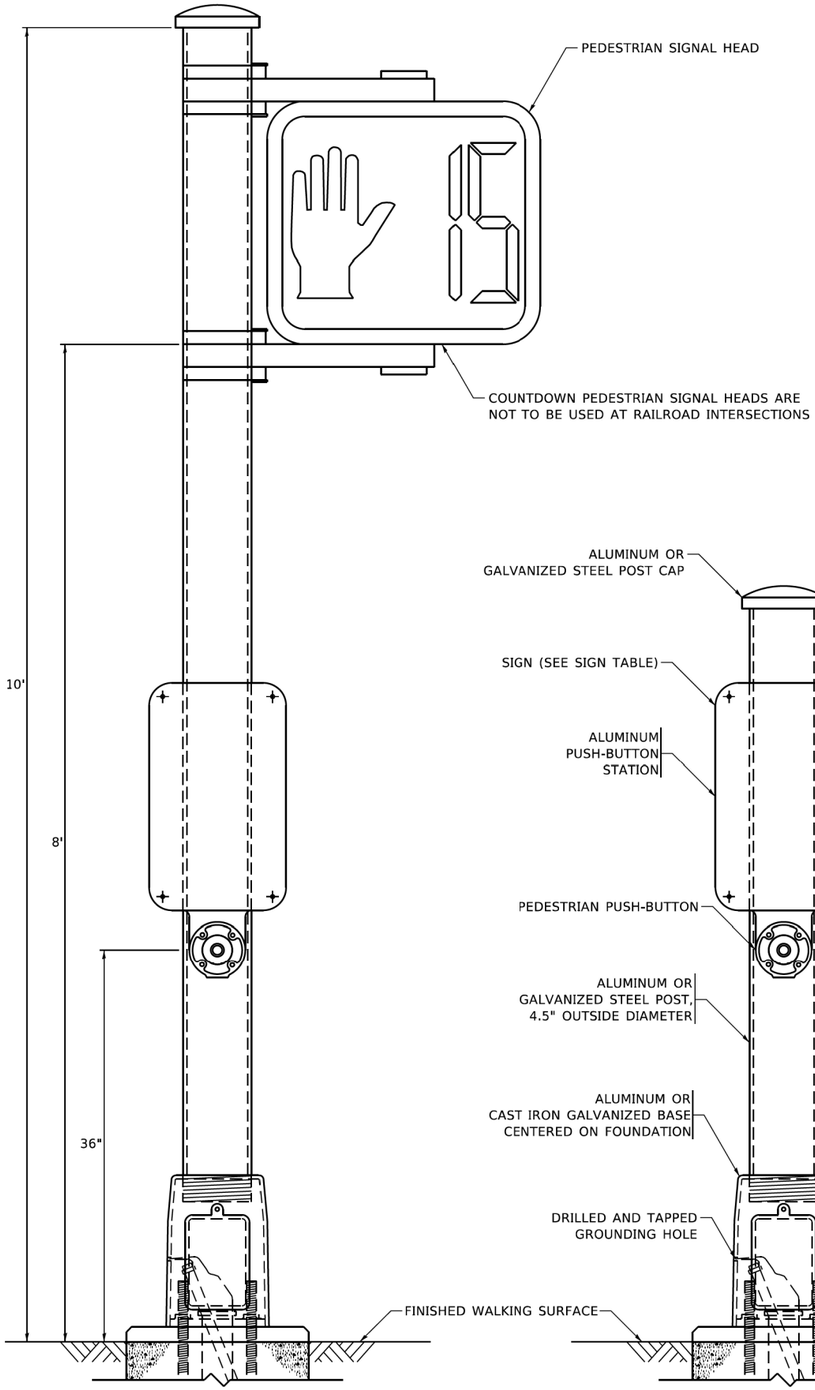
BOLT PATTERN

NOTE:

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

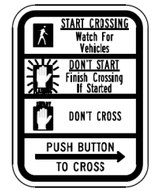


CONCRETE FOUNDATION, TYPE A 12–INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.

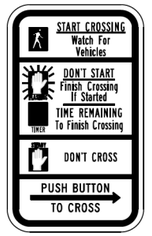
PEDESTRIAN SIGNAL POST, 5 FT.



R10–3b



R10–3d



R10–3e

SIGN TABLE

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

NOTES:

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

TS SHT NO. 7

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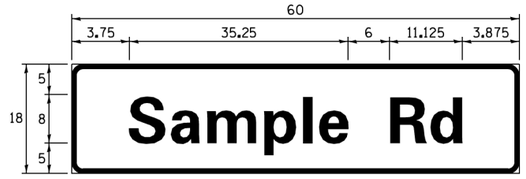
CITY OF JOLIET

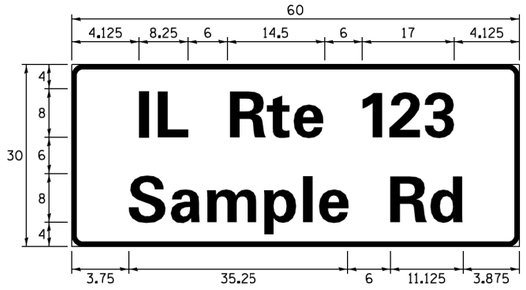
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

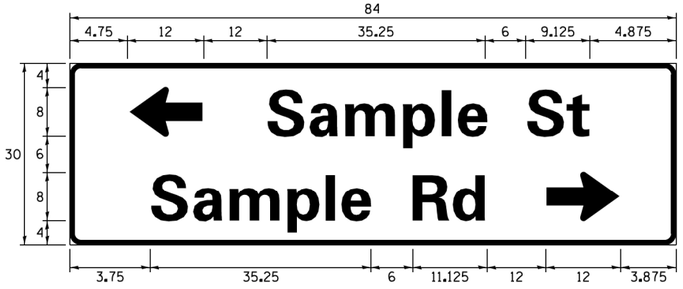
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VAR	21-00546-01-TL	WILL	125	12
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2







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

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

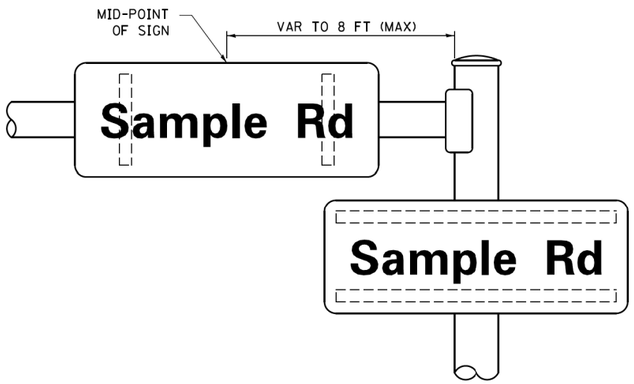
1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUX OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THERE IS SPACE AVAILABLE.
5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL	PART #HPNO53 (MED. CHANNEL)
	SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	PART #HPNO34 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

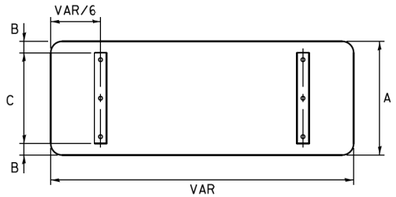
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

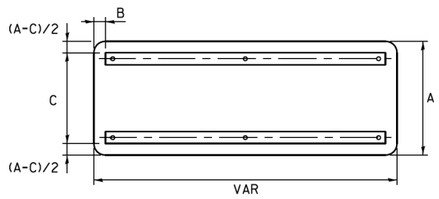
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



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



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

STANDARD ALPHABETS SPACING CHART

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

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

TS SHT NO. 8

MODEL: Default
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iteris

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	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AD	REVISED -	
PLOT DATE = 4/2/2024	DATE - 9/1/23	REVISED -	

CITY OF JOLIET

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

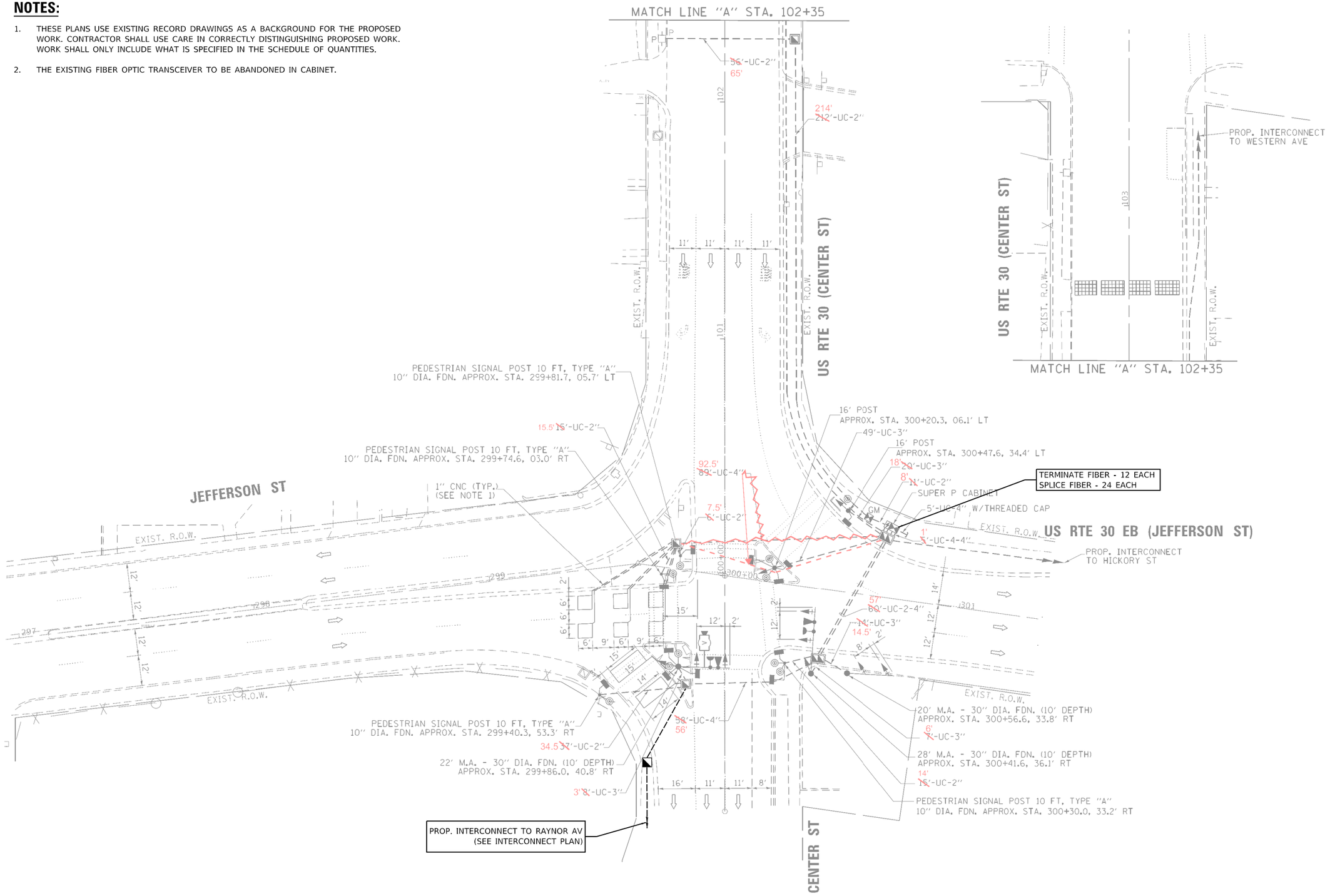
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	13
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



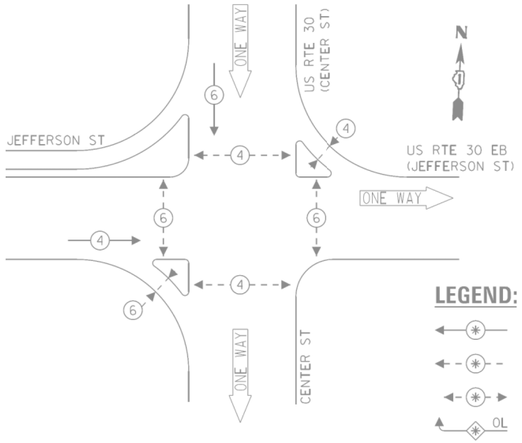
LOCATION NO. 1
TS 22526
FORMER ECON 121
JOLIET CTMS

MODEL: Default
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iteris	USER NAME = bfunk	DESIGNED - BF	REVISED -	CITY OF JOLIET	TRAFFIC SIGNAL MODIFICATION PLAN US ROUTE 30 (JEFFERSON STREET) AND US ROUTE 30 (CENTER STREET)
		DRAWN - BF	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 4/3/2024	DATE - 4/2/24	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	14
		CONTRACT NO. XXXXX		
		ILLINOIS	FED. AID PROJECT	

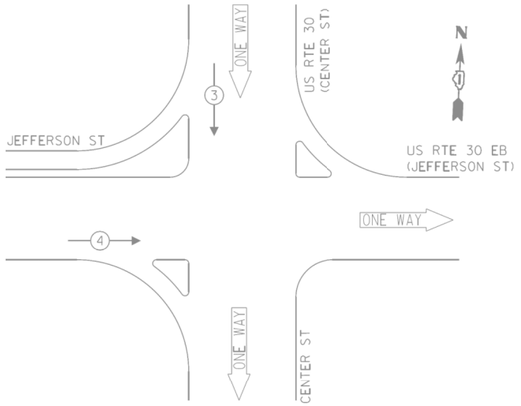
CONTROLLER SEQUENCE



LEGEND:

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
Ssplice FIBER IN CABINET	EACH	24

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	12	20	100	240.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	-	268	50	-
			TOTAL =	754.0

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

A

Jefferson St
City of Joliet

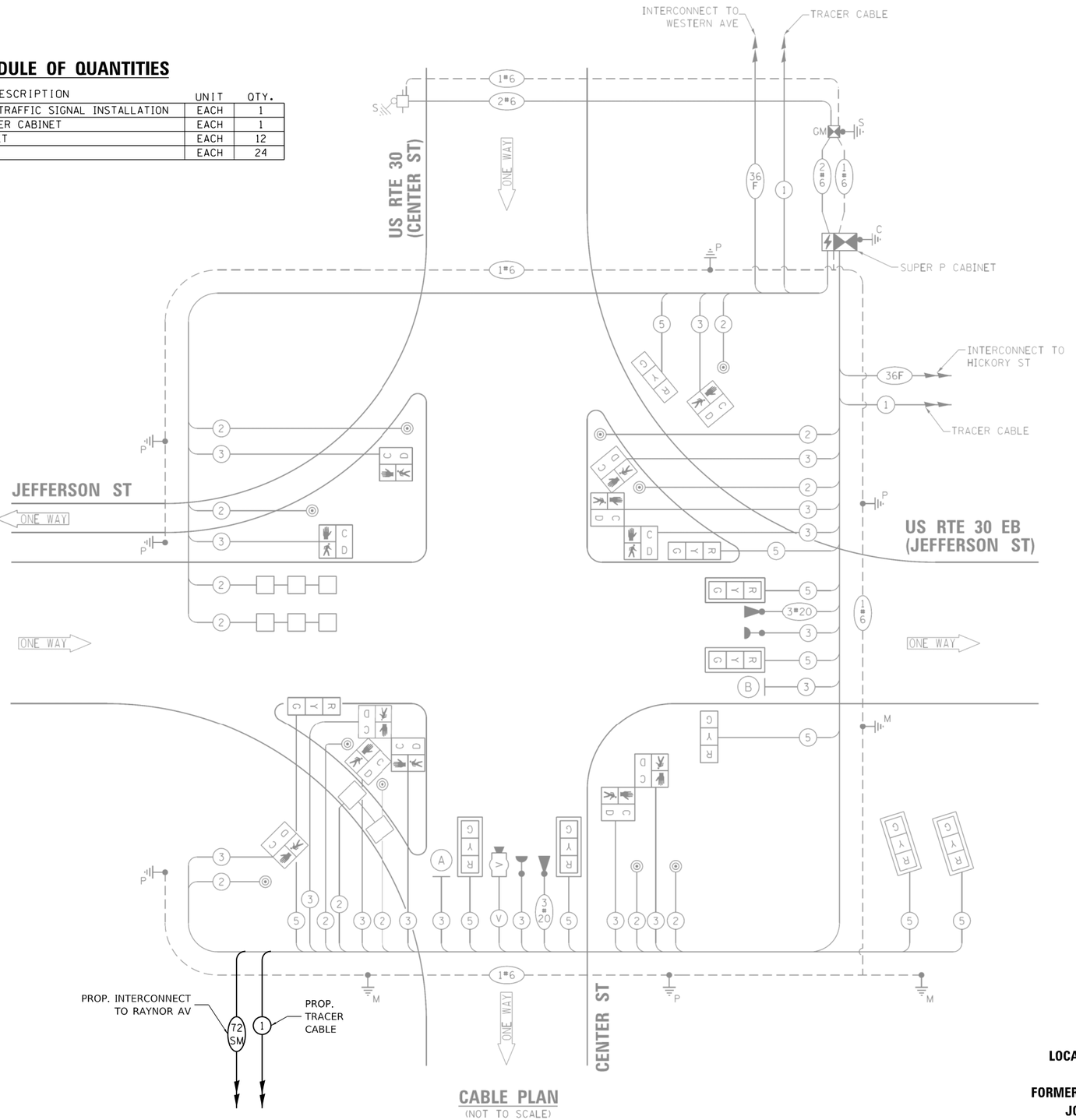
ILLUMINATED SIGN (IREQUIRED)

B

Center St
City of Joliet

ILLUMINATED SIGN (IREQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

LOCATION NO. 1
TS 22526
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shared\Joliet\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-int-CABLE-ECON 121.dgn

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	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/3/2024	DATE - 4/2/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (JEFFERSON STREET) AND US ROUTE 30 (CENTER STREET)

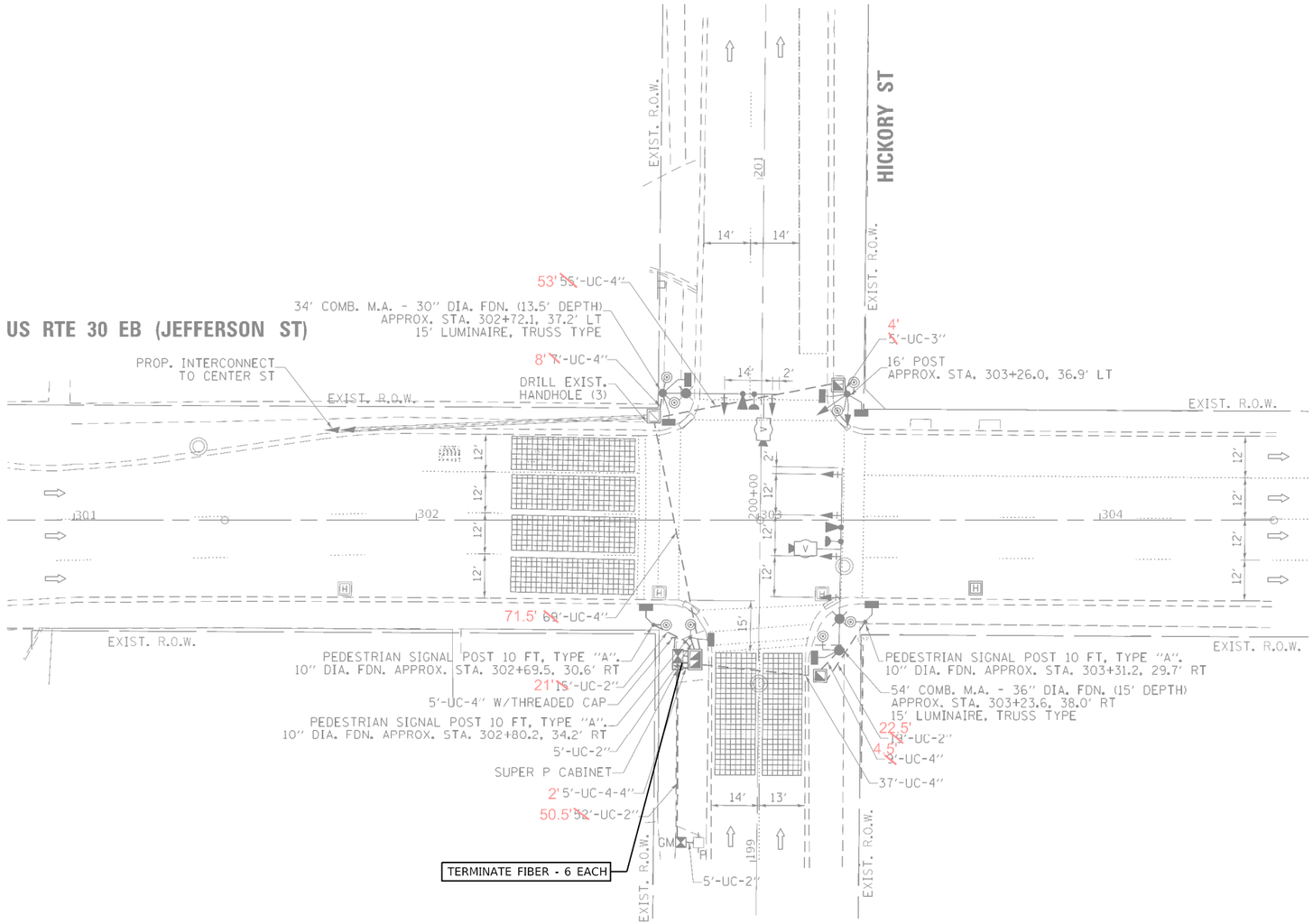
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	15
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 2
TS 22527
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\1612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-Int-TS MOD-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
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PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

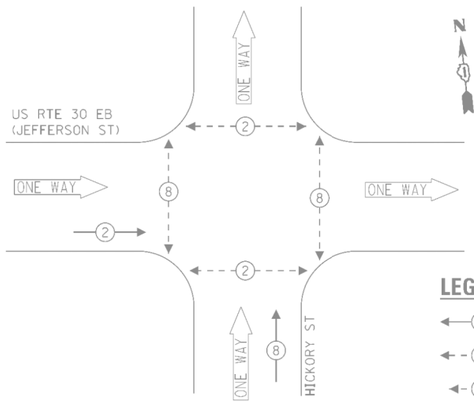
CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (JEFFERSON STREET) AND HICKORY STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	16
		CONTRACT NO. XXXXX		
		ILLINOIS	FED. AID PROJECT	

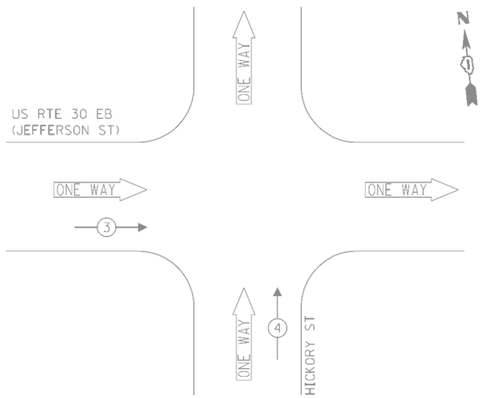
CONTROLLER SEQUENCE



LEGEND:

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44.0
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	2	240	50	268.0
			TOTAL =	890.2

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

A

Jefferson St
City of Joliet

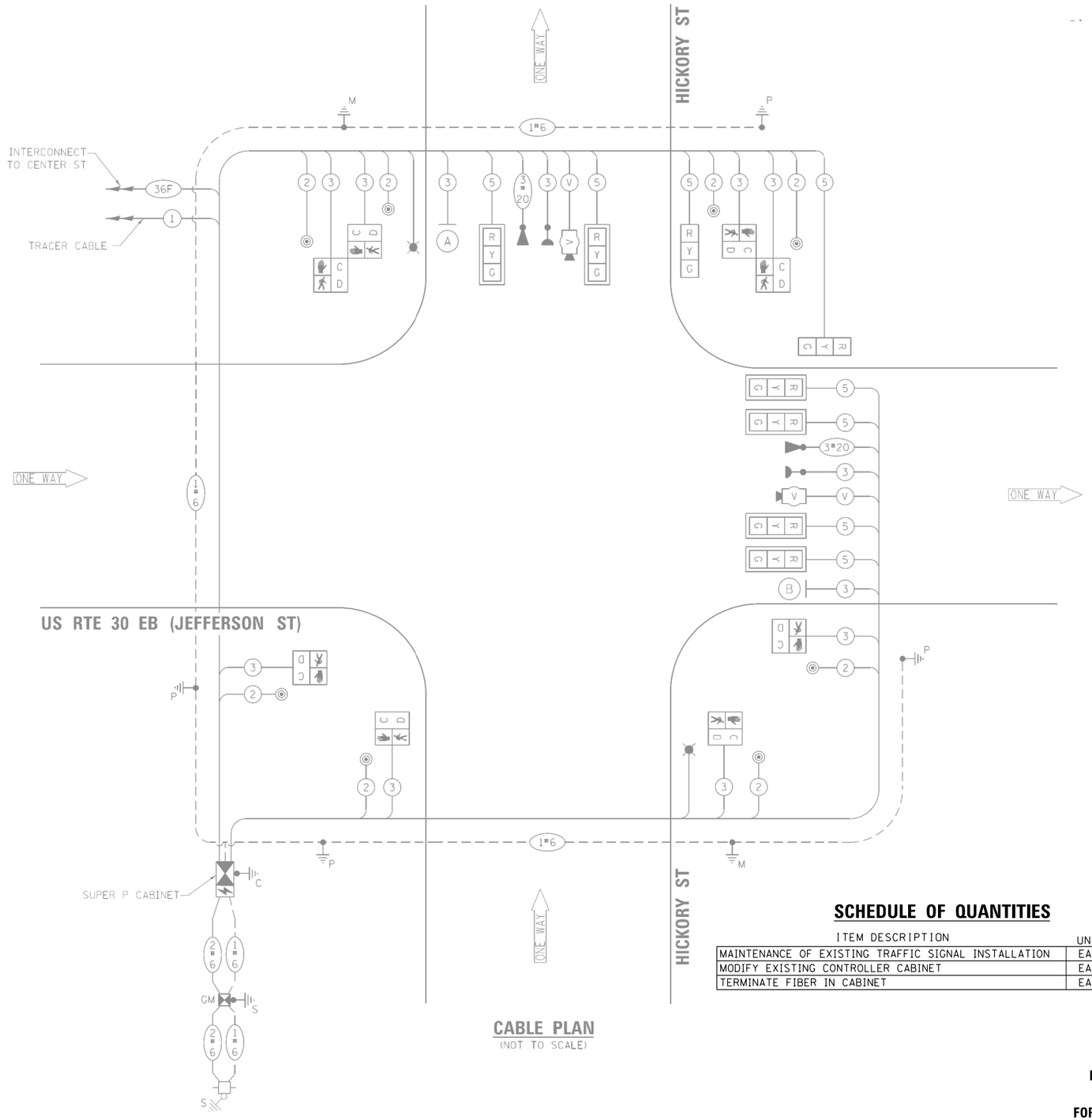
ILLUMINATED SIGN
(1REQUIRED)

B

Hickory St
City of Joliet

ILLUMINATED SIGN
(1REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	6

LOCATION NO. 2
TS 22527
FORMER ECON 121
JOLIET CTMS

MODEL: Default
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iteris

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	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (JEFFERSON STREET) AND HICKORY STREET

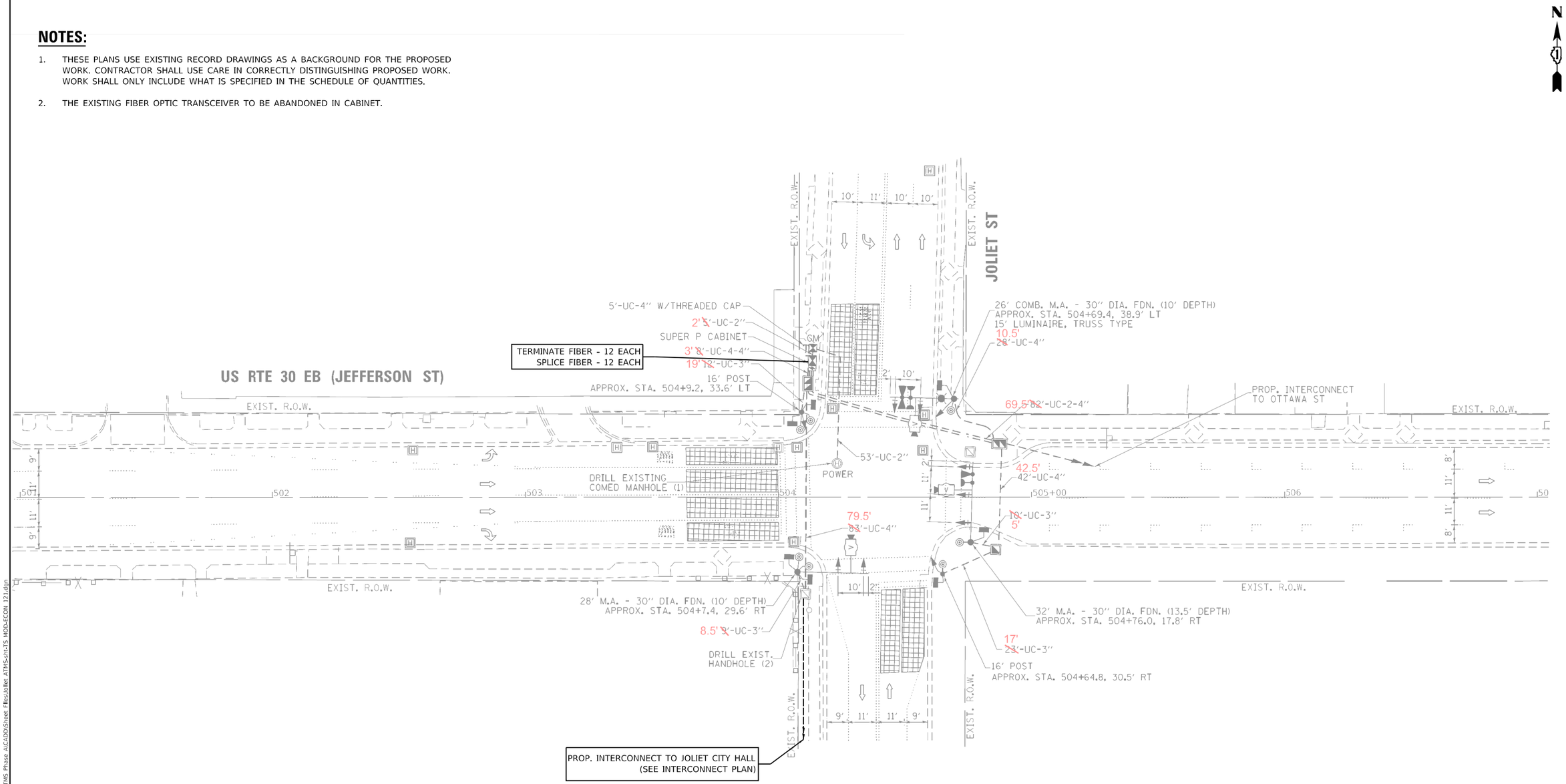
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	17
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 3
TS 22528
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shared\mt\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-ph1-TS MOD-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
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PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

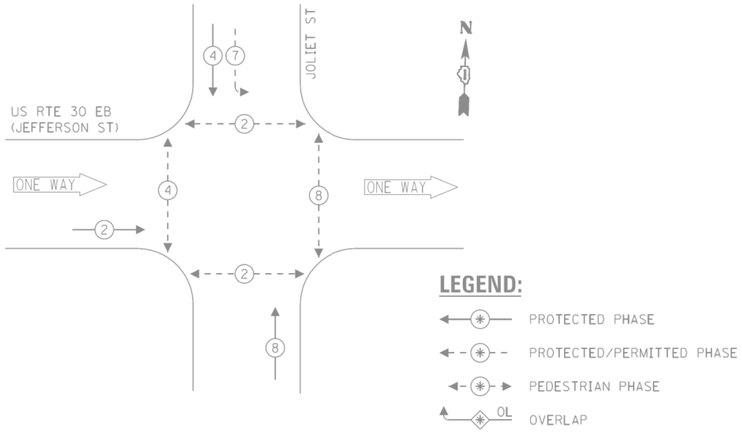
CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (JEFFERSON STREET) AND JOLIET STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	18
		CONTRACT NO. XXXXX		
		ILLINOIS	FED. AID PROJECT	

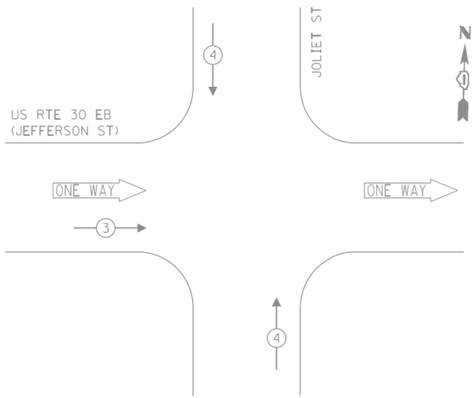
CONTROLLER SEQUENCE



LEGEND:

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE	1	240	50	120.0
			TOTAL =	858.0

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

(A)



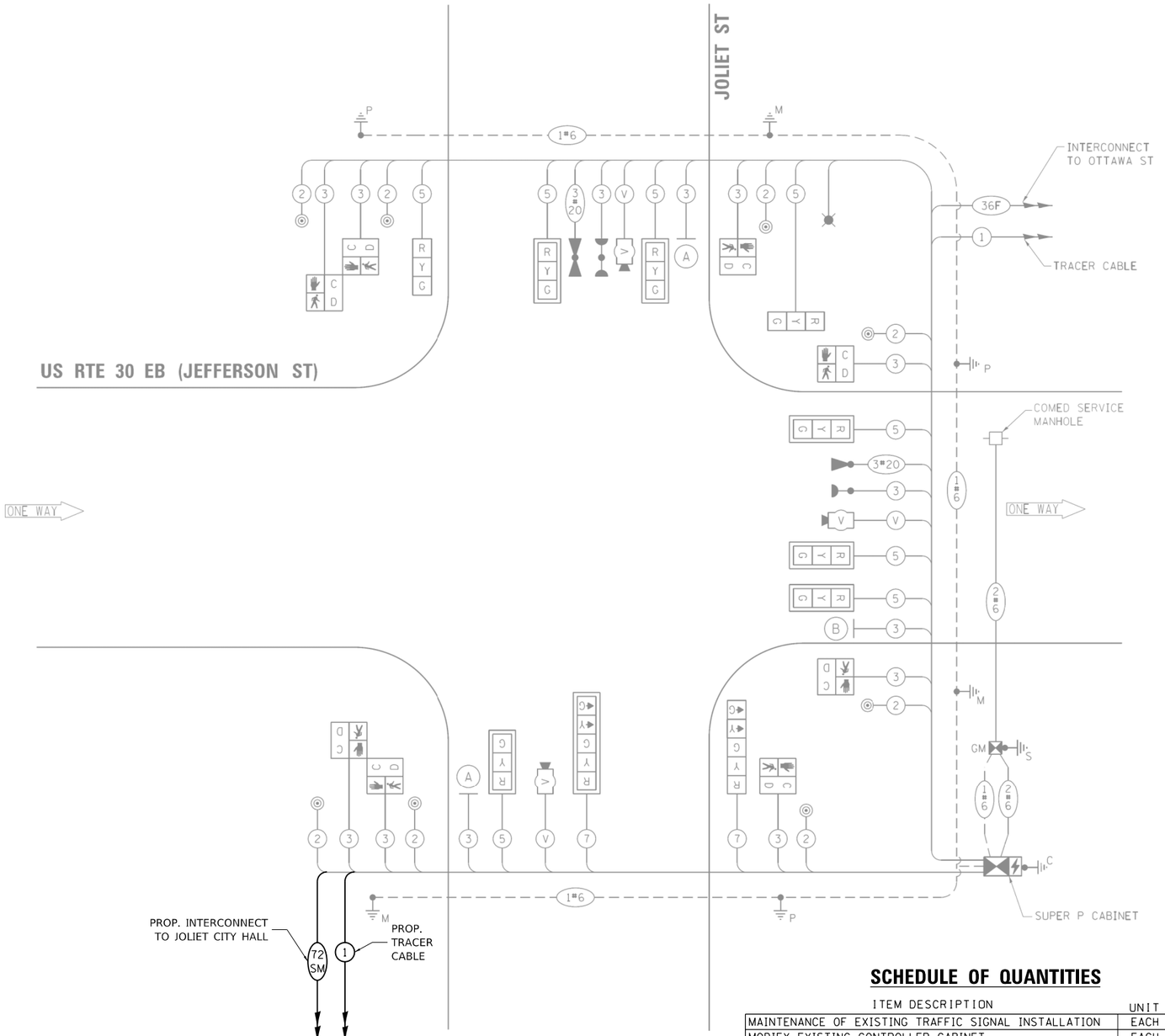
ILLUMINATED SIGN
(2 REQUIRED)

(B)



ILLUMINATED SIGN
(1 REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	12

LOCATION NO. 3
TS 22528
FORMER ECON 121
JOLIET CTMS

MODEL: Default
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	DRAWN - BF	REVISED -	
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PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (JEFFERSON STREET) AND JOLIET STREET

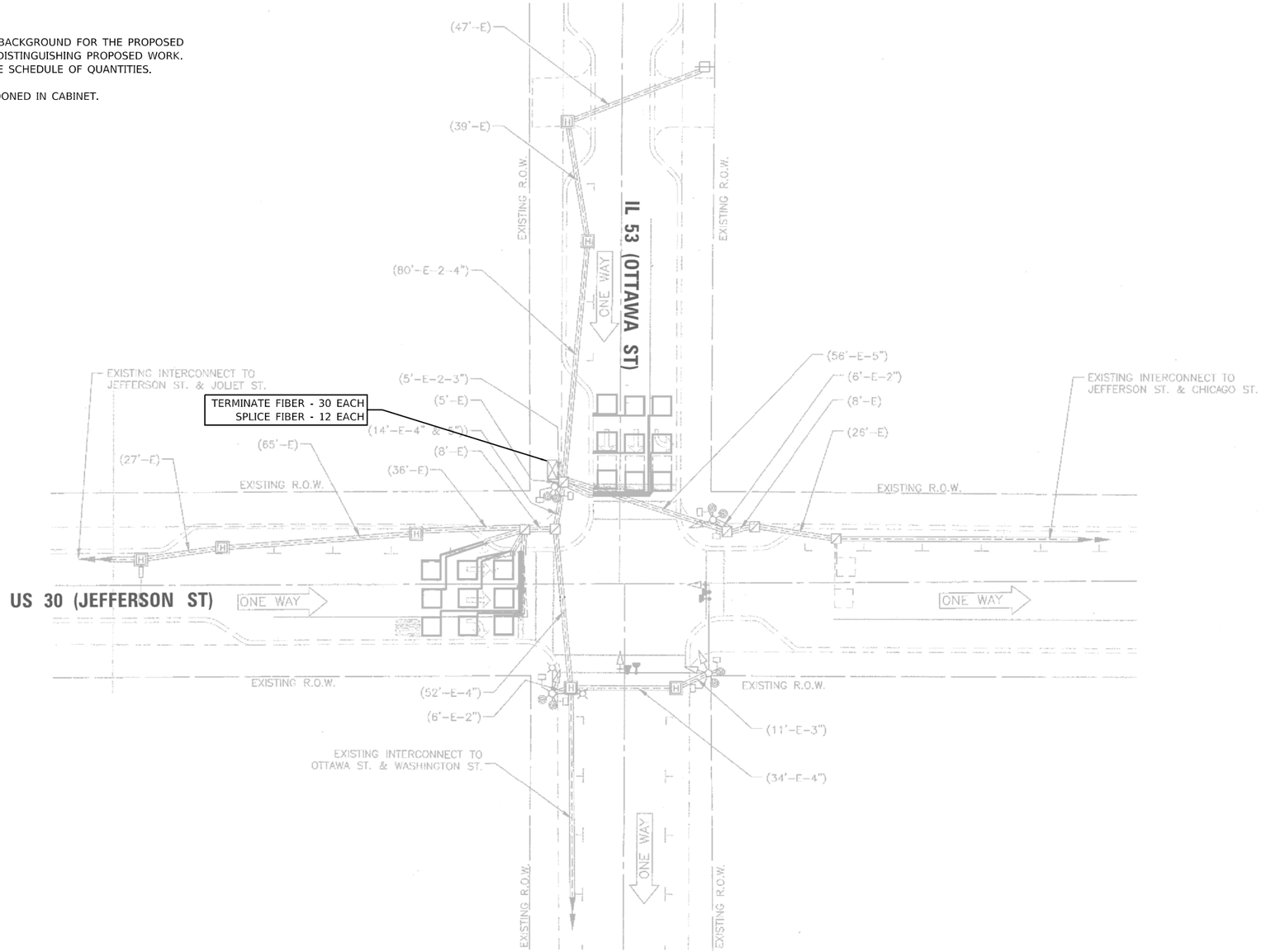
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	19
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 4
TS 22529
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shareon\net\TERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-sht-TS MOD-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -

CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (JEFFERSON STREET) AND IL ROUTE 53 (OTTAWA STREET)

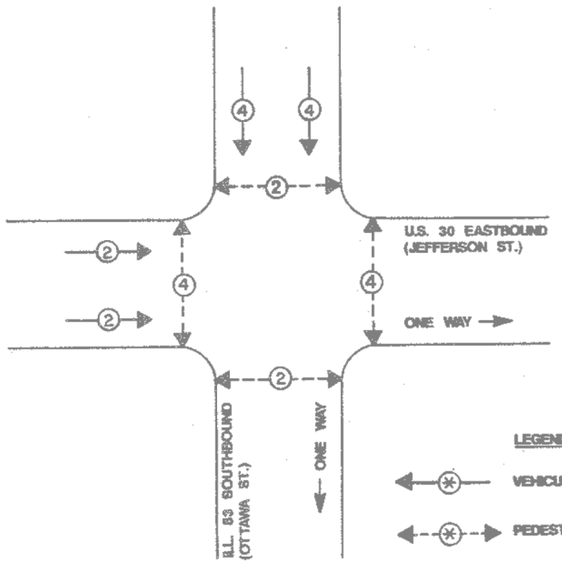
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	20
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

PHASE DESIGNATION DIAGRAM

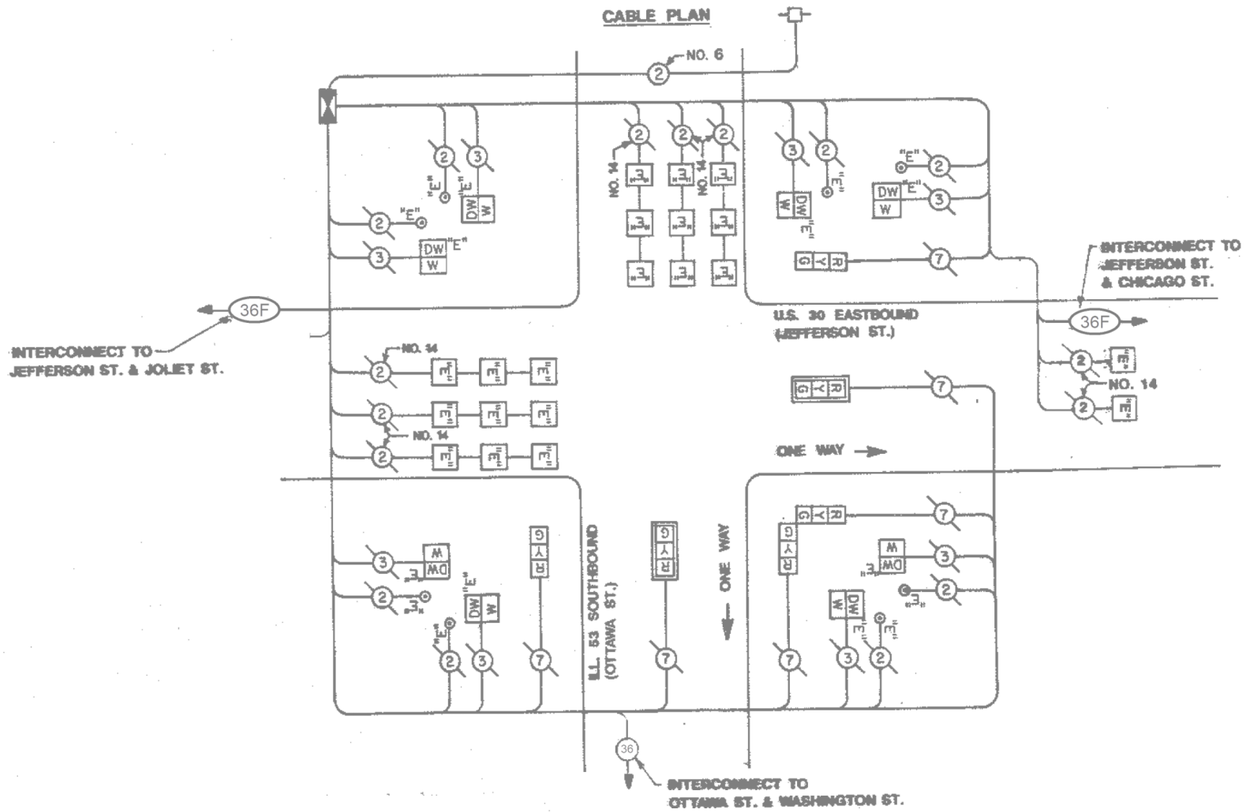
CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2393-I, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

CABLE PLAN



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	6	11	66
	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
DETECTION RADAR OR VIDEO		-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	II OR III	1	35	35
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				**396**
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				**1001**

ENERGY COSTS - BILLED TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____
METER NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	30
SPLICE FIBER IN CABINET	EACH	12

LOCATION NO. 4
TS 22529
FORMER ECON 121
JOLIET CTMS

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (JEFFERSON STREET) AND IL ROUTE 53 (OTTAWA STREET)

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

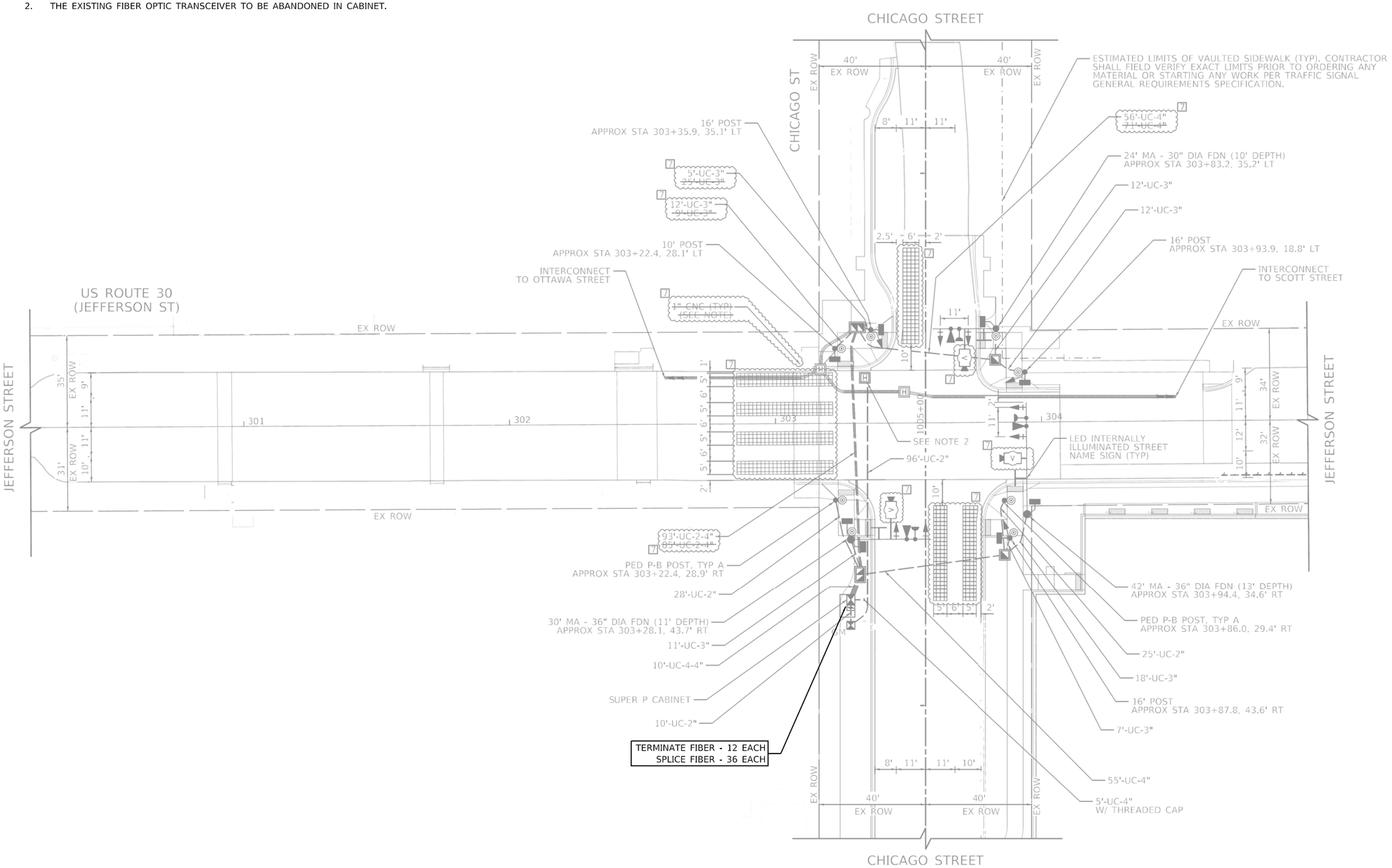
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	21
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-int-CABLE-ECON 121.dgn

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 5
TS 22530
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\1612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-sht-TS MOD-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

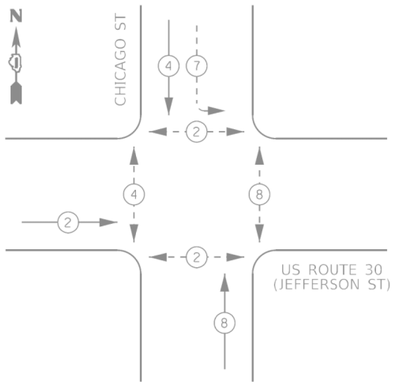
CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (JEFFERSON STREET) AND CHICAGO STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	22
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

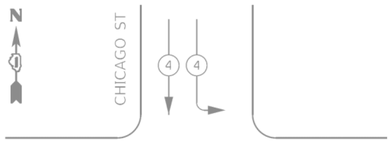
CONTROLLER SEQUENCE

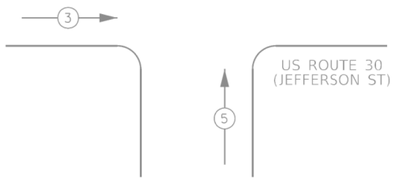


LEGEND:

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE





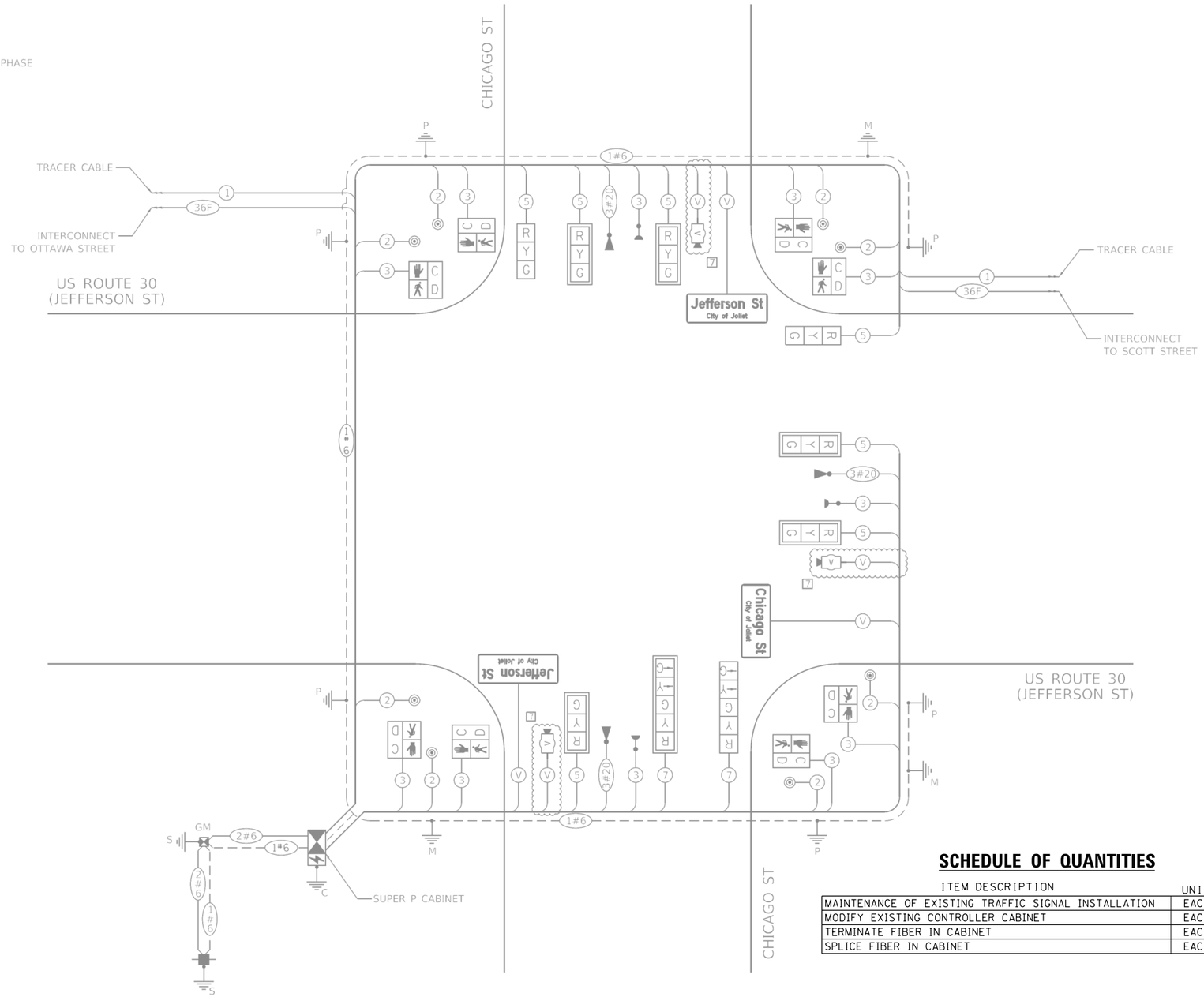
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
PTZ VIDEO SYSTEM		115	100	
BLANK-OUT SIGN		25	5	
RADAR DETECTOR		12	100	
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE		285	50	
			TOTAL =	576.1

ENERGY COSTS TO:

201 W CENTER COURT,
SCHAUMBURG, IL 60196

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



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	36

CABLE PLAN
(NOT TO SCALE)

LOCATION NO. 5
TS 22530
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shareoath\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-int-CABLE-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (JEFFERSON STREET) AND CHICAGO STREET

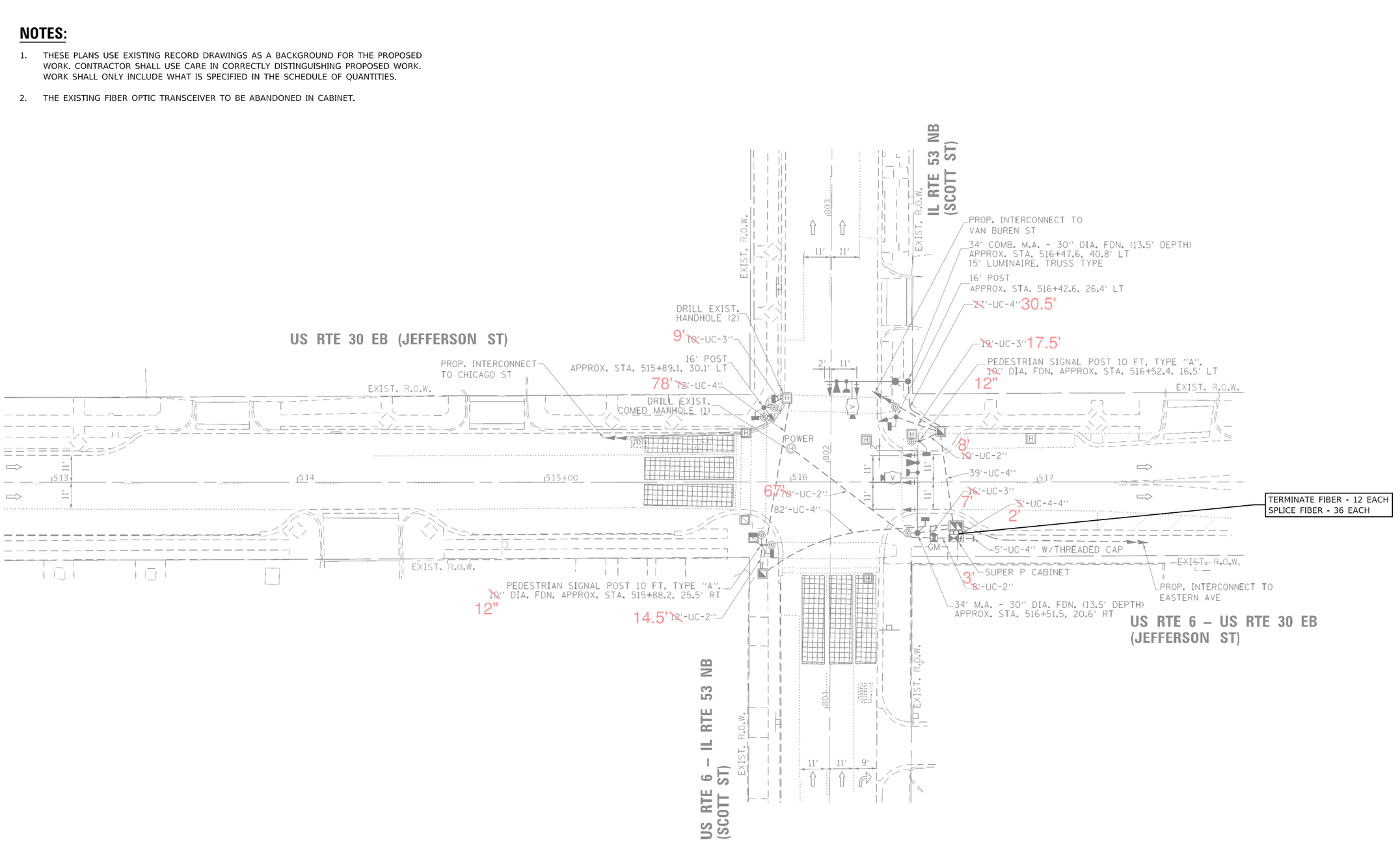
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	23
		CONTRACT NO. XXXXX		
		ILLINOIS	FED. AID PROJECT	

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 6
TS 22531
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase 4\CADD\Sheet Files\Joliet ATMS-sht-TS MOD-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
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PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

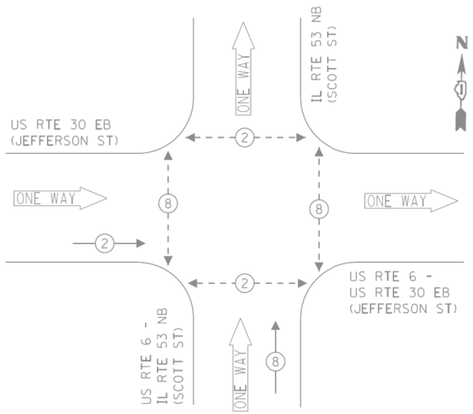
CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (JEFFERSON STREET) AND IL ROUTE 53 (SCOTT STREET)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	24
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

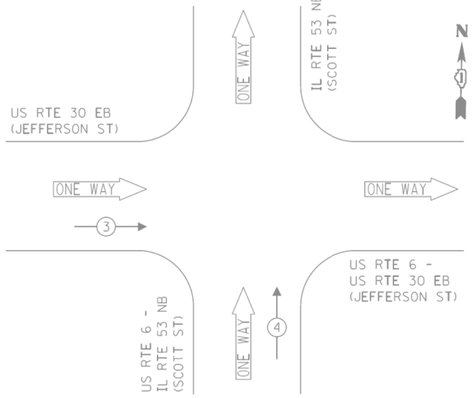
CONTROLLER SEQUENCE



LEGEND:

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



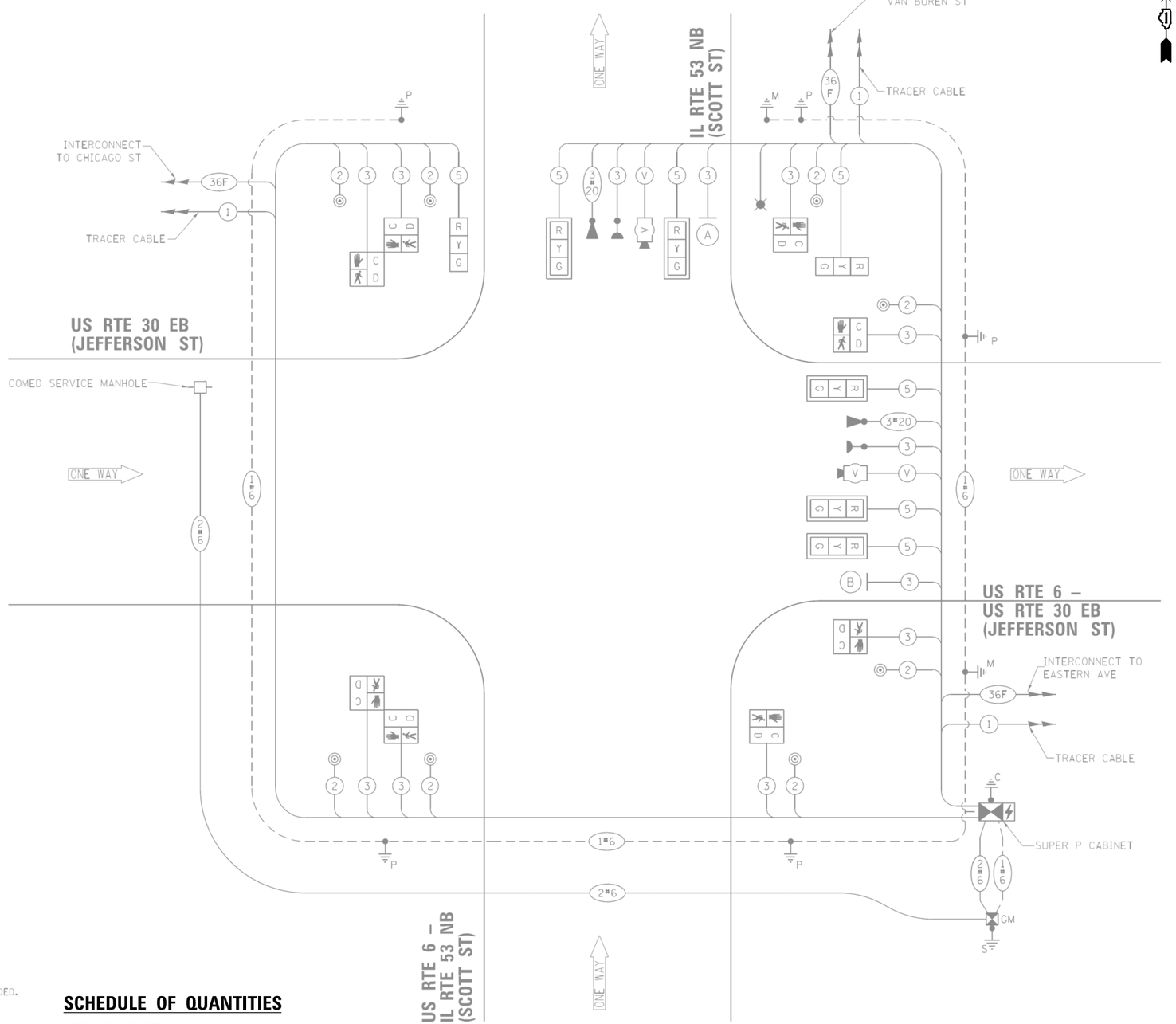
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	7	11	50	38.5
(YELLOW)	7	20	5	7.0
(GREEN)	7	12	45	37.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	1	240	50	120.0
			TOTAL =	758.3

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

A



ILLUMINATED SIGN
(I REQUIRED)

B



ILLUMINATED SIGN
(I REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
Ssplice FIBER IN CABINET	EACH	36

LOCATION NO. 6
TS 22531
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Sharepoint\ITTERS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-int-CABLE-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (JEFFERSON STREET) AND IL ROUTE 53 (SCOTT STREET)

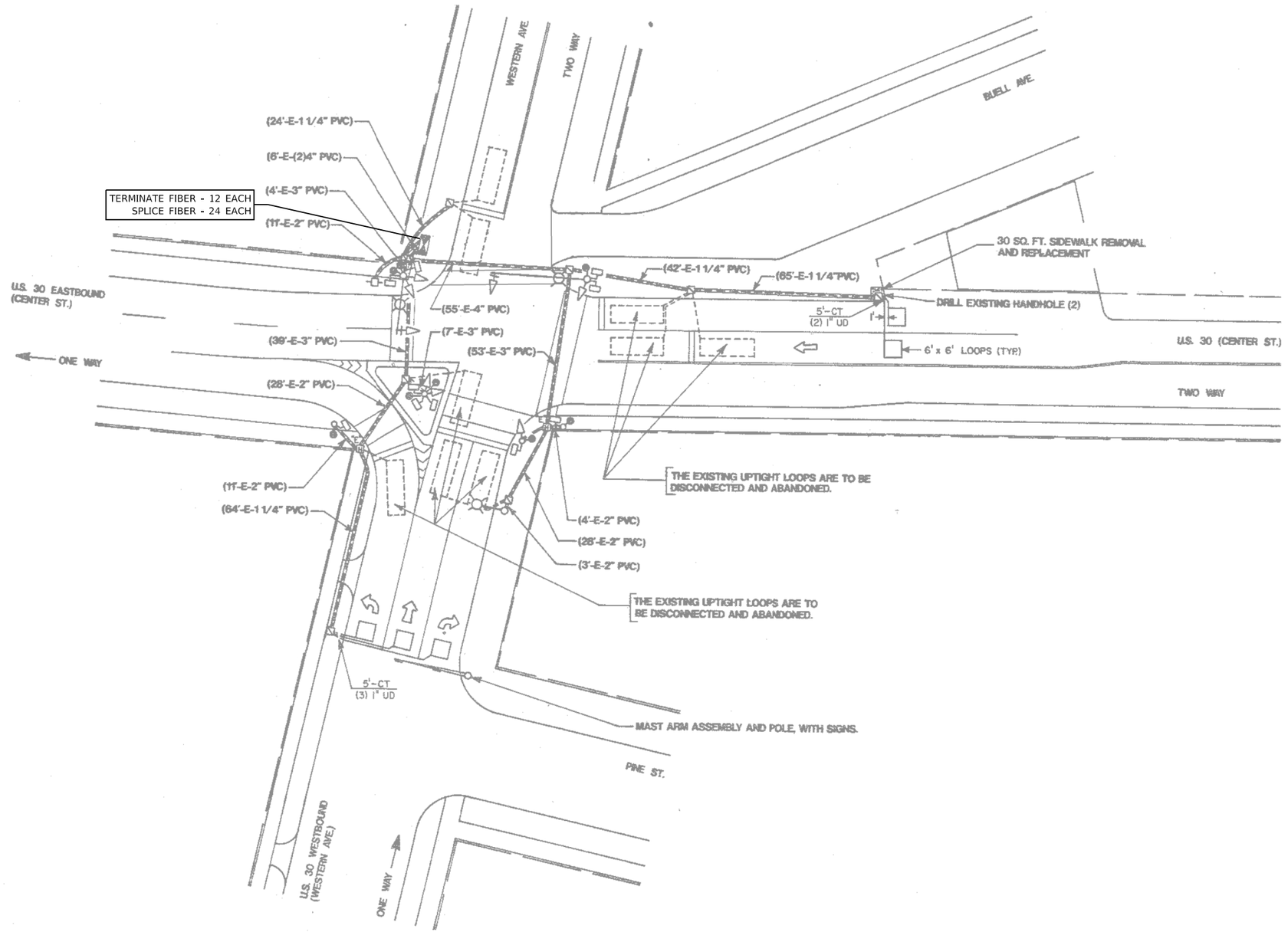
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	25
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 7
TS 22532
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: c:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-int-TS MOD-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (WESTERN AVENUE) AND US ROUTE 30 (CENTER STREET)

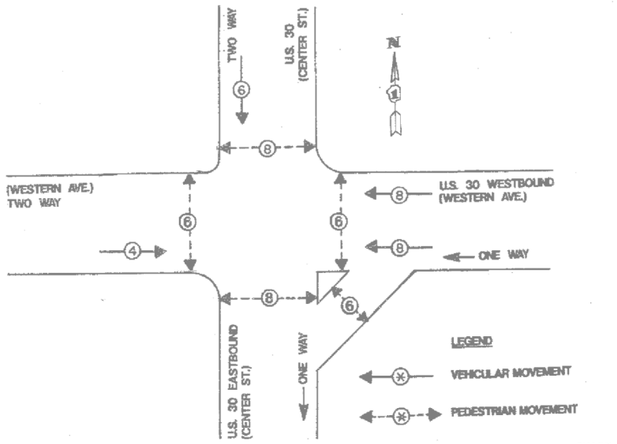
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	26
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

PHASE DESIGNATION DIAGRAM

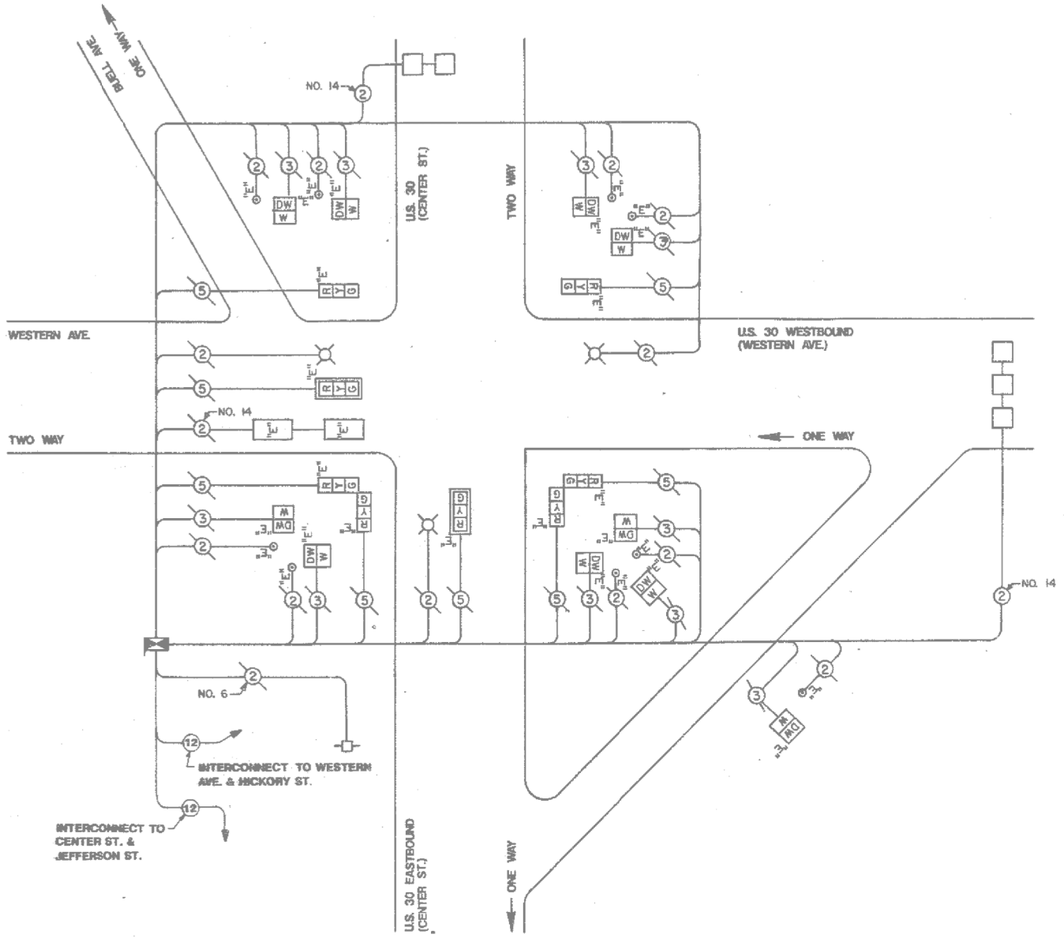
CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2393-I, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

CABLE PLAN



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	8	11	88
	4-SECTION	-	14	-
	5-SECTION	-	13	-
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		10	15	150
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
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				**448**
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		3	240	720
TOTAL SERVICE WIRE SIZING				**1773**

ENERGY COSTS - BILLED TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____
METER NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
Ssplice FIBER IN CABINET	EACH	24

LOCATION NO. 7
TS 22532
FORMER ECON 121
JOLIET CTMS

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (WESTERN AVENUE) AND US ROUTE 30 (CENTER STREET)

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

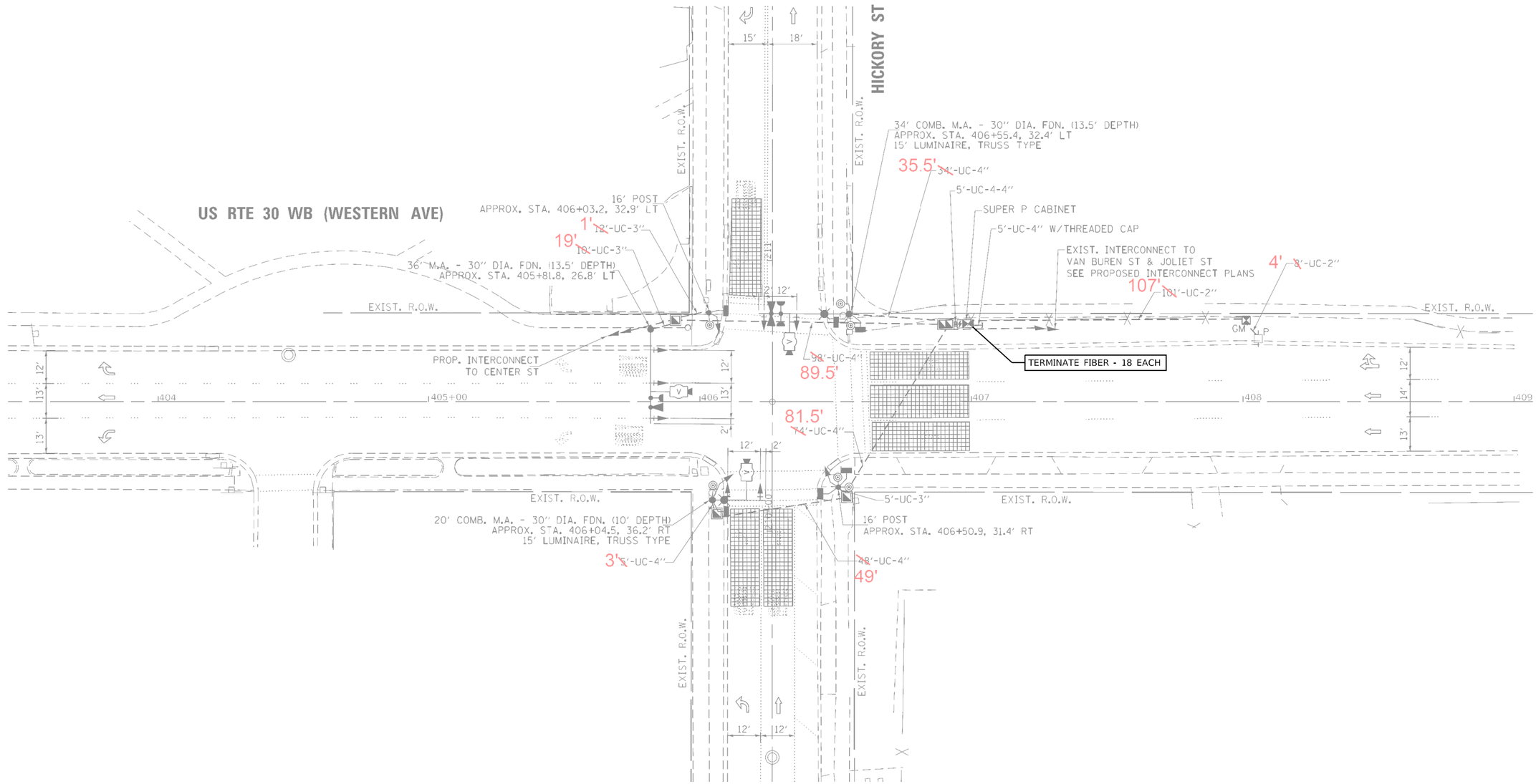
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VAR	21-00546-01-TL	WILL	125	27
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 8
TS 22533
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shareqa\Int\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase 2\CADD\Sheet Files\Joliet ATMS-phi-TS MOD-ECON 121.dgn

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PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

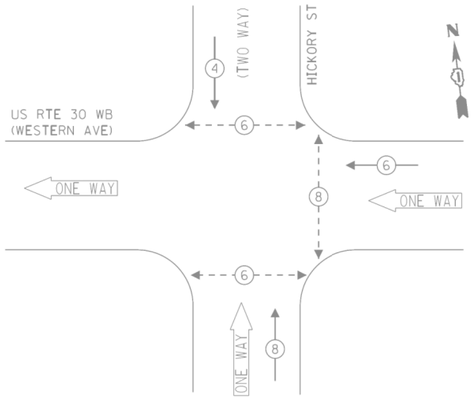
CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (WESTERN AVENUE) AND HICKORY STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	28
		CONTRACT NO. XXXXX		
		ILLINOIS	FED. AID PROJECT	

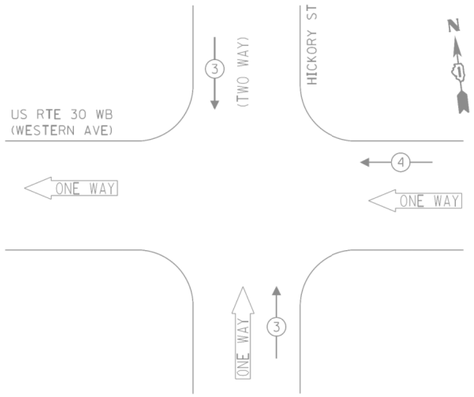
CONTROLLER SEQUENCE



LEGEND:

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE	2	240	50	240.0
			TOTAL =	934.0

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

A

Western Ave
City of Joliet

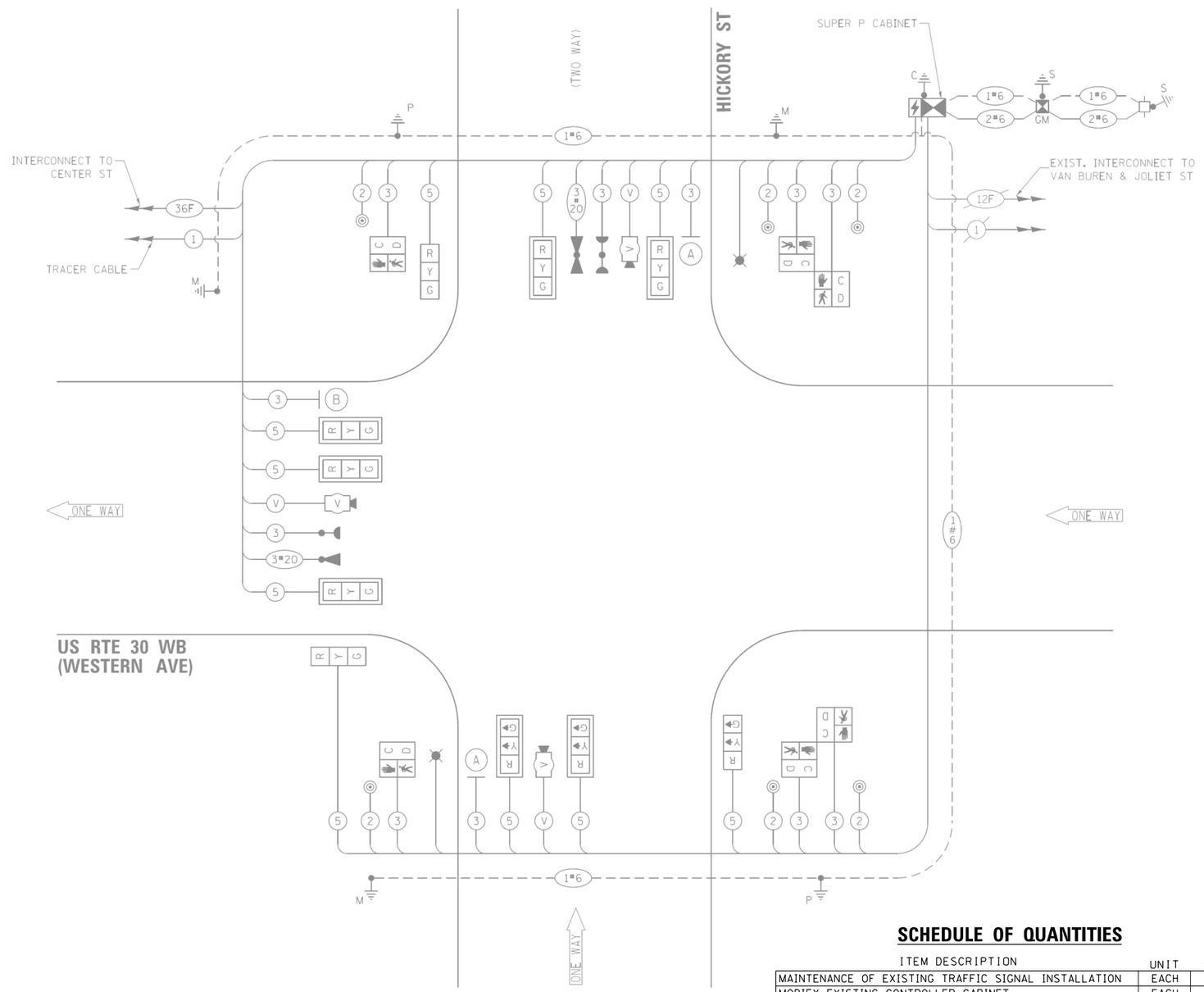
ILLUMINATED SIGN
(2 REQUIRED)

B

Hickory St
City of Joliet

ILLUMINATED SIGN
(1 REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	18

LOCATION NO. 8
TS 22533
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-ent-CABLE-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (WESTERN AVENUE) AND HICKORY STREET

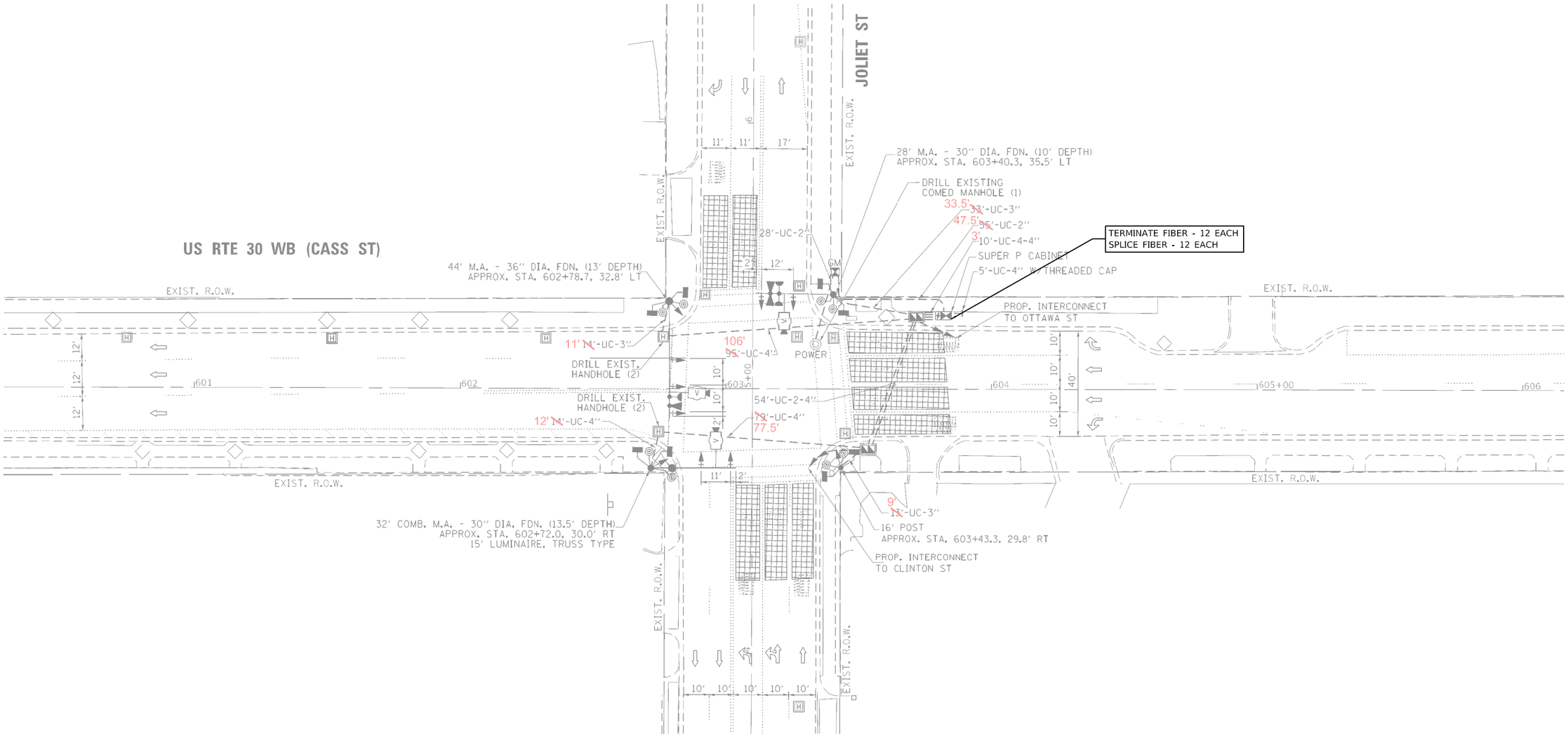
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	29
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 9
TS 22534
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shared\int\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-pn-TS MOD-ECON 121.dgn

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USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

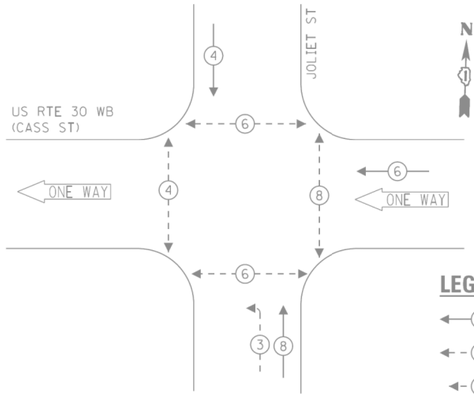
CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (CASS STREET) AND JOLIET STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	30
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

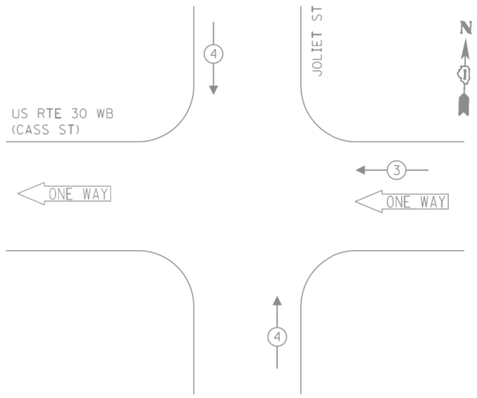
CONTROLLER SEQUENCE



LEGEND:

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE	2	240	50	134.0
			TOTAL =	978.0

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

A

Cass St
City of Joliet

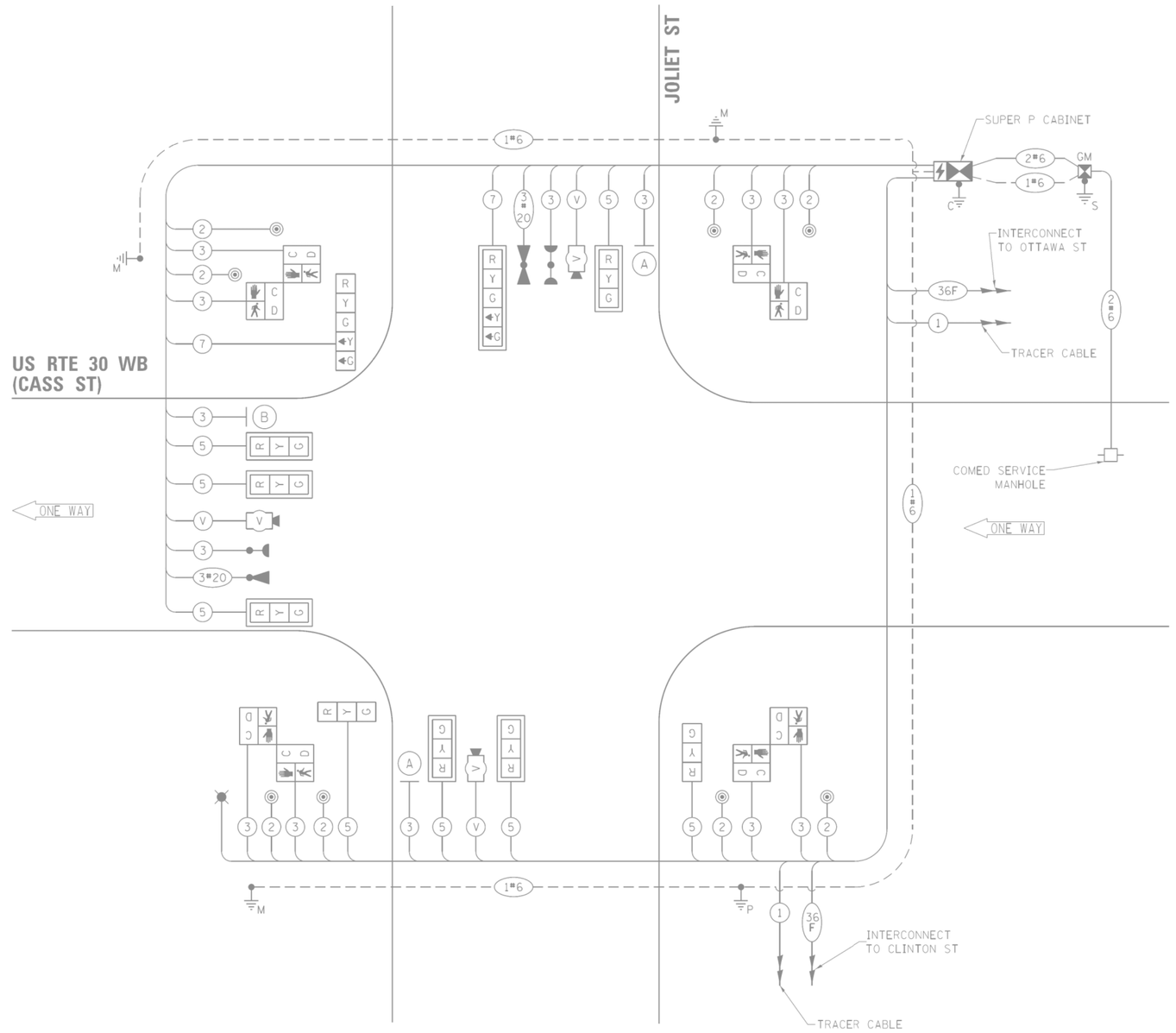
ILLUMINATED SIGN
(2 REQUIRED)

B

Joliet St
City of Joliet

ILLUMINATED SIGN
(1 REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	12

LOCATION NO. 9
TS 22534
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shared\Intl\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-Int-CABLE-ECON 121.dgn

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	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (CASS STREET) AND JOLIET STREET

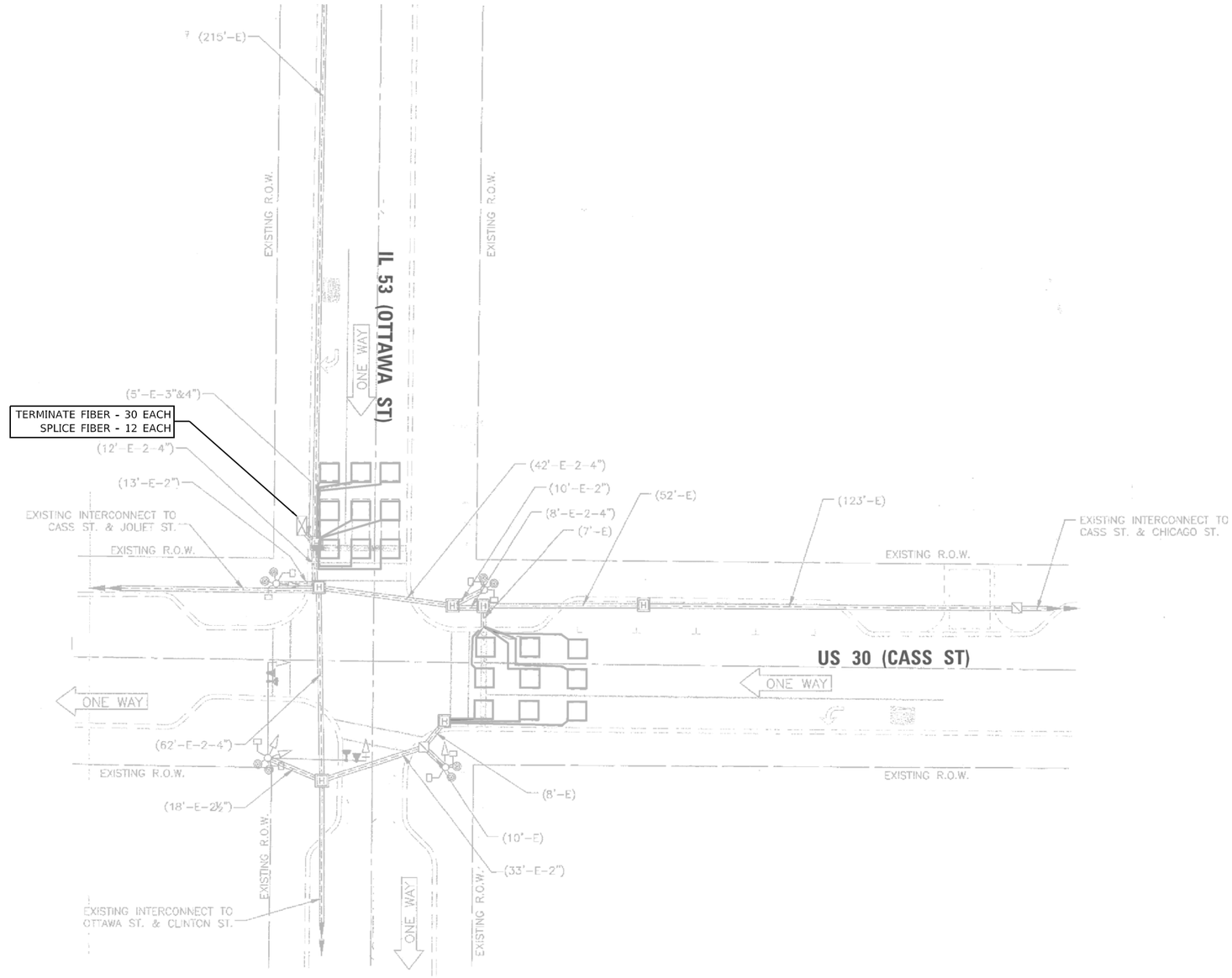
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	31
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 10
TS 22535
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-int-TS MOD-ECON 121.dgn

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USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (CASS STREET) AND IL ROUTE 53 (OTTAWA STREET)

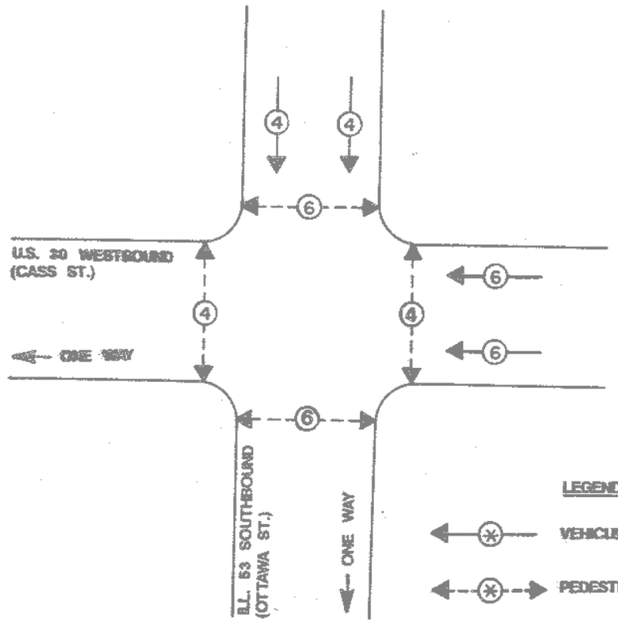
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	32
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE IV

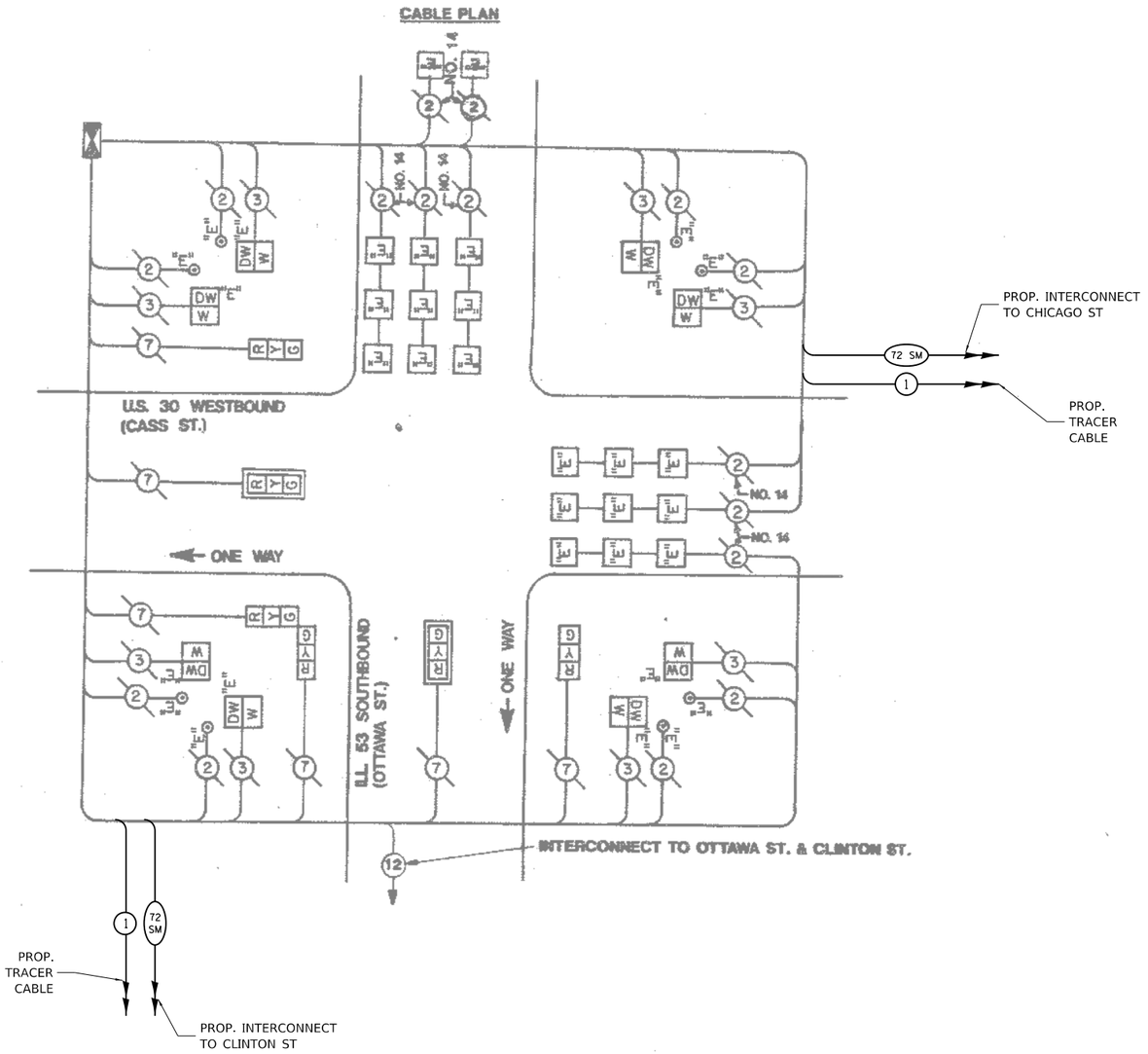
REFERRING TO STANDARD 2393-I, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

* NUMBER REFERS TO ASSOCIATED PHASE

CABLE PLAN



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	6	11	66
	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
DETECTION RADAR OR VIDEO		-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	II OR III	1	35	35
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				**396**
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				**1001**

ENERGY COSTS - BILLED TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____
METER NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	30
SPLICE FIBER IN CABINET	EACH	12

LOCATION NO. 10
TS 22535
FORMER ECON 121
JOLIET CTMS

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (CASS STREET) AND IL ROUTE 53 (OTTAWA STREET)

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

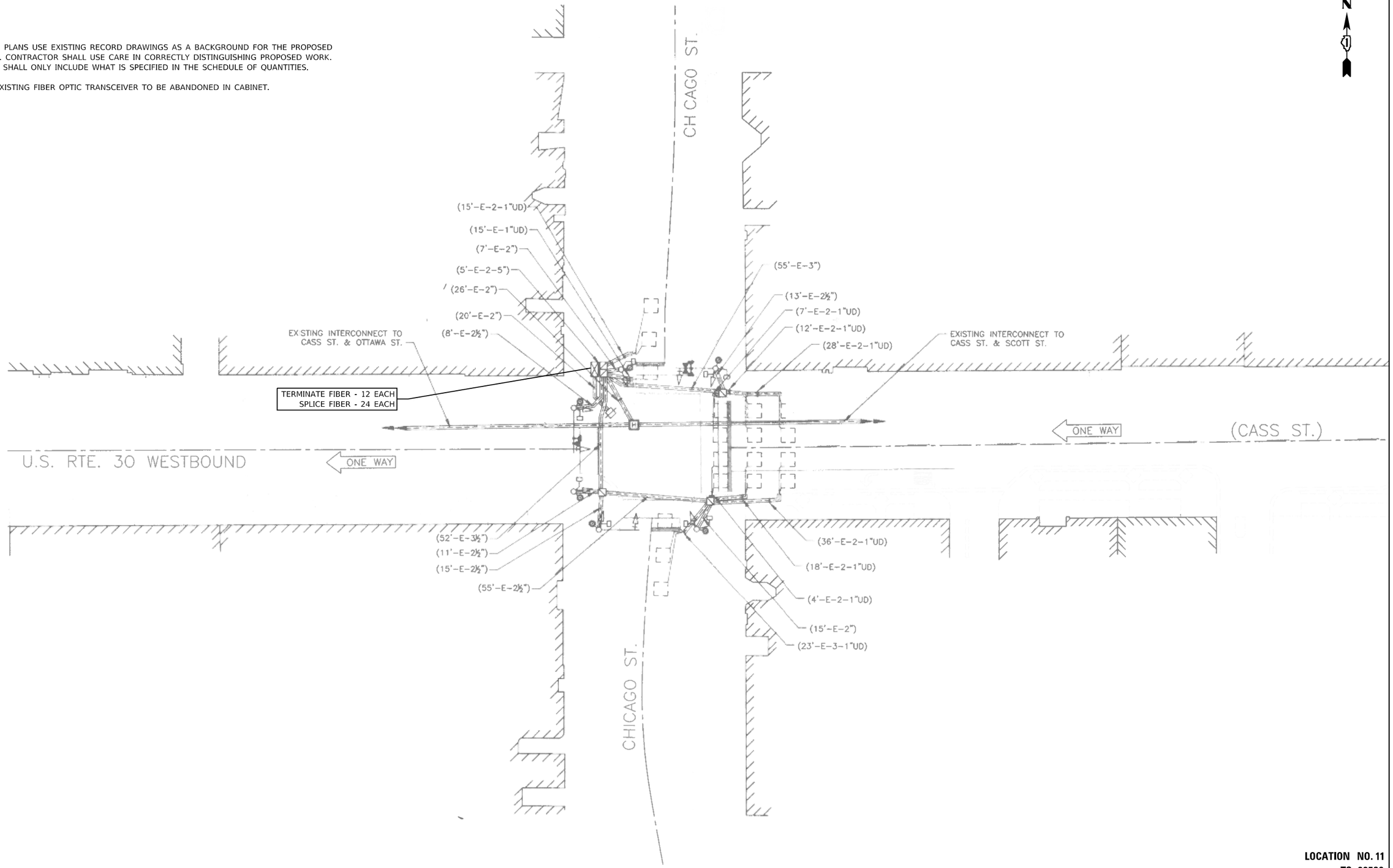
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	33
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 11
TS 22536
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shared\nat\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-ints-TS MOD-ECON 121.dgn

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	DRAWN - BF	REVISED -	
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PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

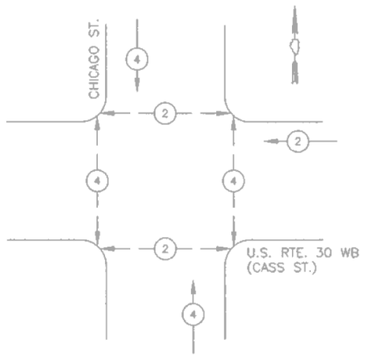
CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (CASS STREET) AND CHICAGO STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	34
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE

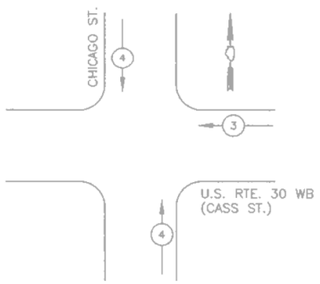


LEGEND

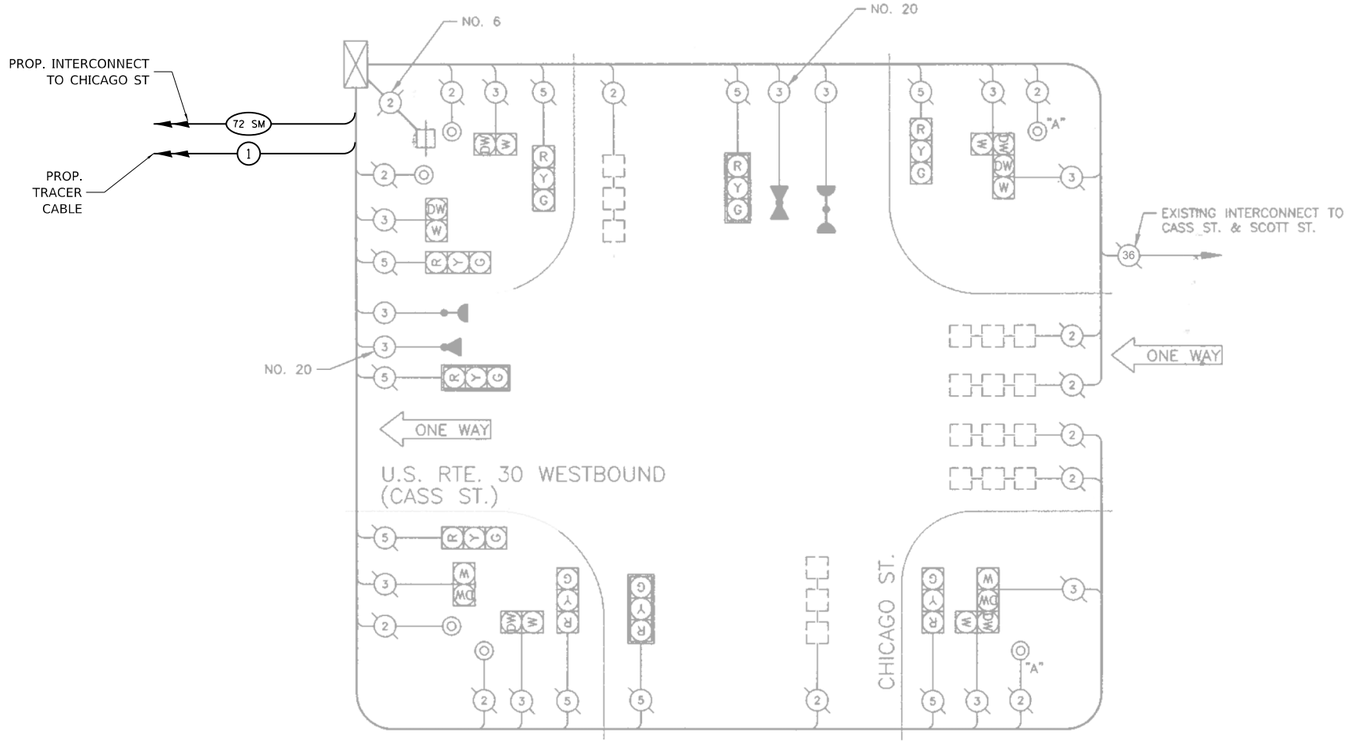
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN MOVEMENT
- * — NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		



CABLE PLAN
NOT TO SCALE

NOTE:

PUSHBUTTON A SHALL PLACE A CALL TO PHASES 2 & 4

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	9	11	99
	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
DETECTION	RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	II OR III	1	35	35
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				**429**
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				**1034**

ENERGY COSTS - BILLED TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____
METER NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
Ssplice FIBER IN CABINET	EACH	24

LOCATION NO. 11
TS 22536
FORMER ECON 121
JOLIET CTMS

iteris

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PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (CASS STREET) AND CHICAGO STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	35
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: C:\Shareon\nt\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase 4\CADD\Sheet Files\Joliet ATMS-sht-CABLE-ECON 121.dgn

REMOVAL AND RELOCATION NOTES:

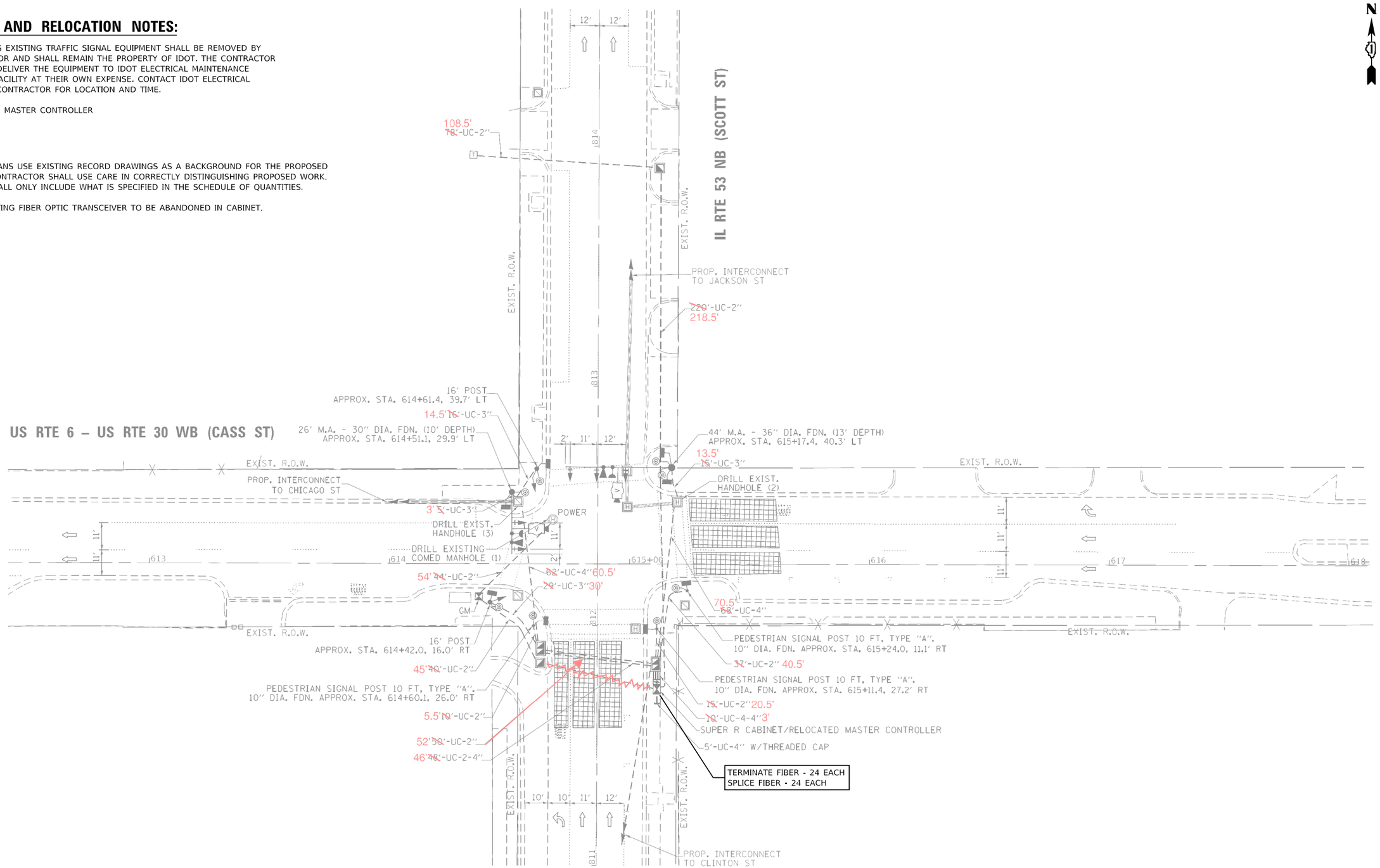
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THE EQUIPMENT TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT IDOT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION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

1 EACH MASTER CONTROLLER

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 12
TS 21803
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase 4\CADD\Sheet Files\Joliet ATMS-sht-TS MOD-ECON 121.dgn

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	DRAWN - BF	REVISED -	
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PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

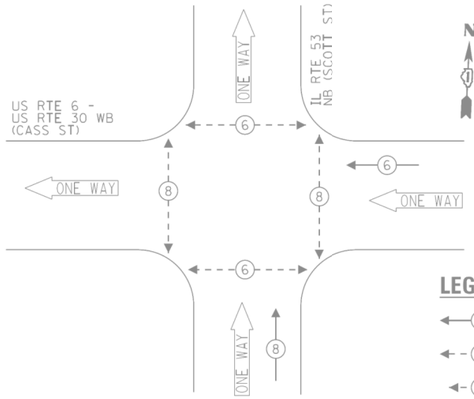
CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
US ROUTE 30 (CASS STREET) AND IL ROUTE 53 (SCOTT STREET)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	36
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

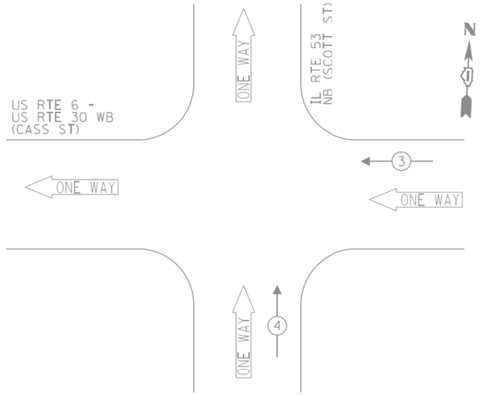
CONTROLLER SEQUENCE



LEGEND:

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



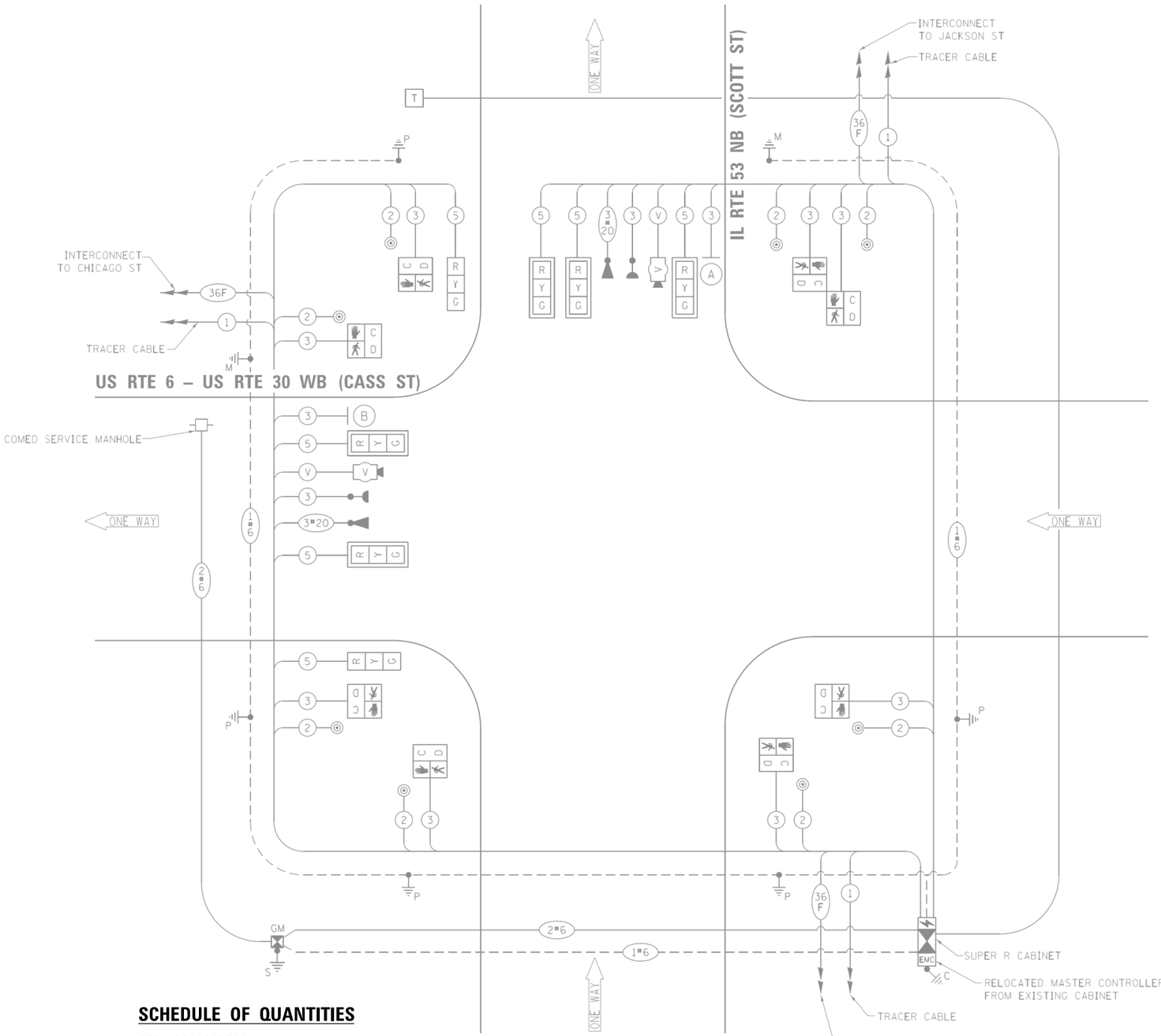
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	7	11	50	38.5
(YELLOW)	7	20	5	7.0
(GREEN)	7	12	45	37.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	-	-	-	-
			TOTAL =	638.3

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

A
Cass St
City of Joliet
ILLUMINATED SIGN (IREQUIRED)

B
Scott St
City of Joliet
ILLUMINATED SIGN (IREQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
SPLICE FIBER IN CABINET	EACH	24

LOCATION NO. 12
TS 21803
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: c:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase AI\CADD\Sheet Files\Joliet ATMS-int-CABLE-ECON 121.dgn

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	DRAWN - BF	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
US ROUTE 30 (CASS STREET) AND IL ROUTE 53 (SCOTT STREET)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	37
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

REMOVAL AND RELOCATION NOTES:

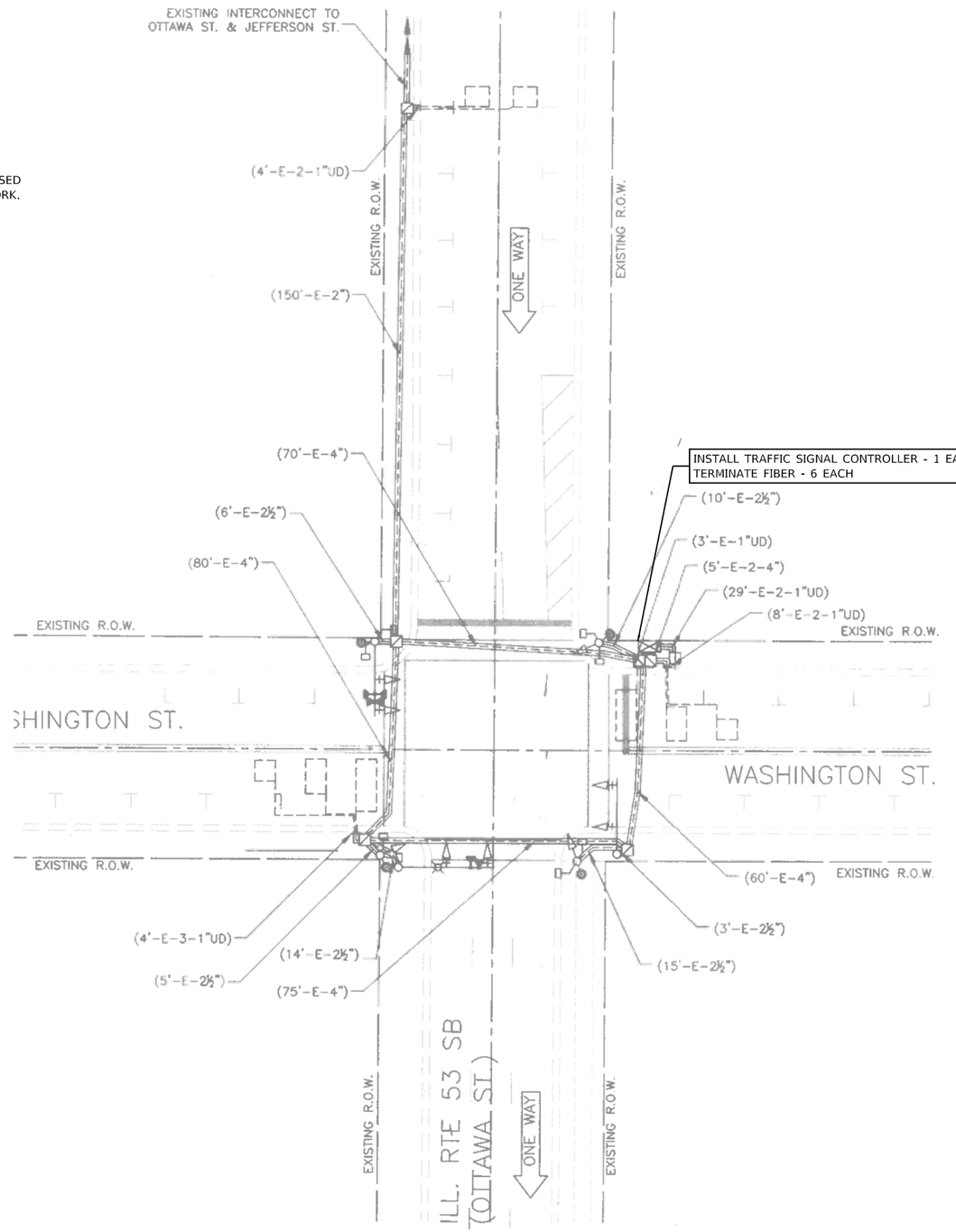
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE CITY OF JOLIET. THE CONTRACTOR SHALL SAFELY DELIVER THE EQUIPMENT TO THE CITY OF JOLIET ELECTRICAL MAINTENANCE FACILITY AT THEIR OWN EXPENSE. CONTACT CITY ELECTRICAL STAFF FOR LOCATION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

1 EACH TRAFFIC SIGNAL CONTROLLER

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 13
TS 22537
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shared\Int\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-ph-1S MOD-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

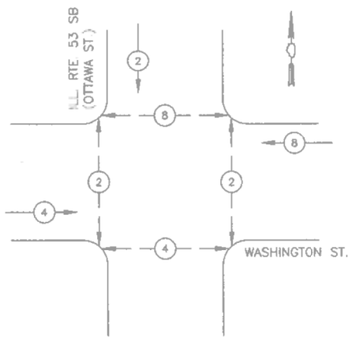
CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 53 (OTTAWA STREET) AND WASHINGTON STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	38
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE

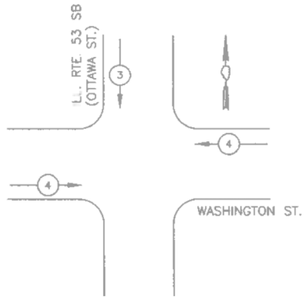


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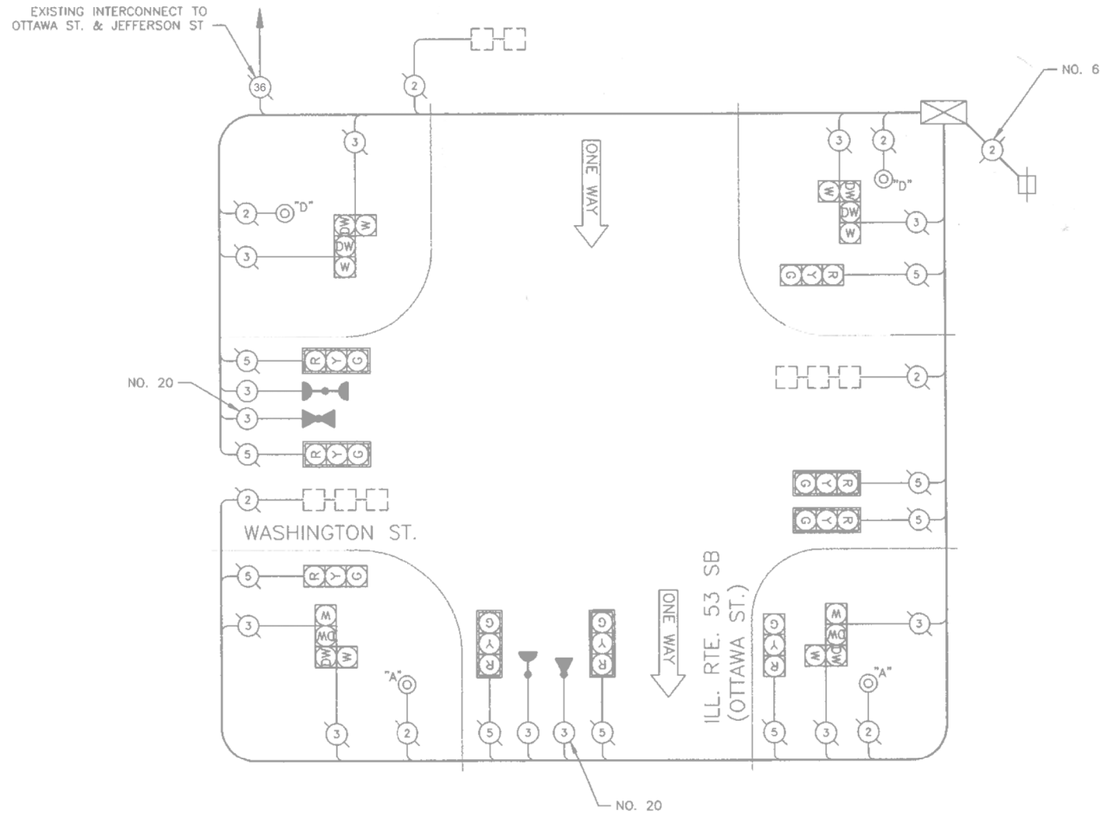
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN MOVEMENT
- * — NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN
NOT TO SCALE

NOTE:

PUSHBUTTON A SHALL PLACE A CALL TO PHASES 2 & 4
PUSHBUTTON D SHALL PLACE A CALL TO PHASES 8 & 2

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	9	11	99
	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
DETECTION RADAR OR VIDEO		-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	II OR III	1	35	35
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				**429**
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				**1034**

ENERGY COSTS - BILLED TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____
METER NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
TERMINATE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1

LOCATION NO. 13
TS 22537
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\1612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-pH-CABLE-ECON 121.dgn

iteris

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	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
IL ROUTE 53 (OTTAWA STREET) AND WASHINGTON STREET

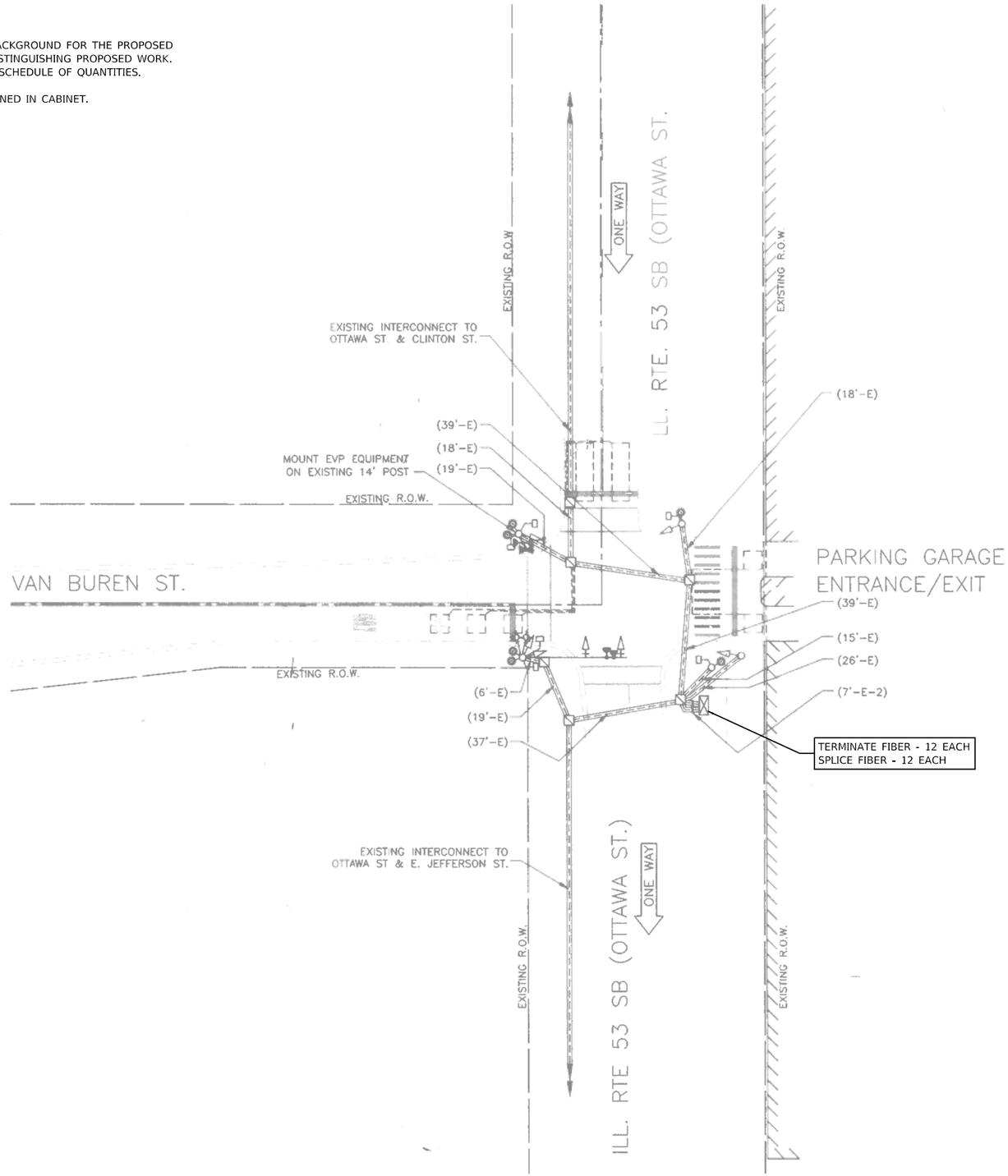
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	39
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 14
TS 22545
FORMER ECON 121
JOLIET CTMS

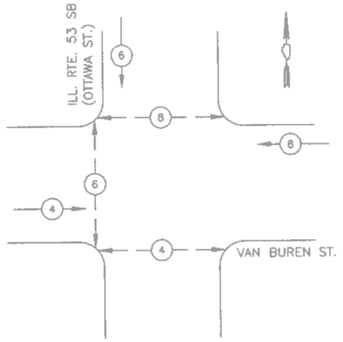
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iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	CITY OF JOLIET	TRAFFIC SIGNAL MODIFICATION PLAN IL ROUTE 53 (OTTAWA STREET) AND VAN BUREN STREET	
	DRAWN - BF	REVISED -			
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -			
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	40
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

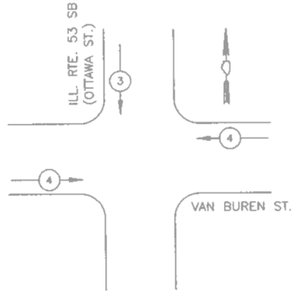


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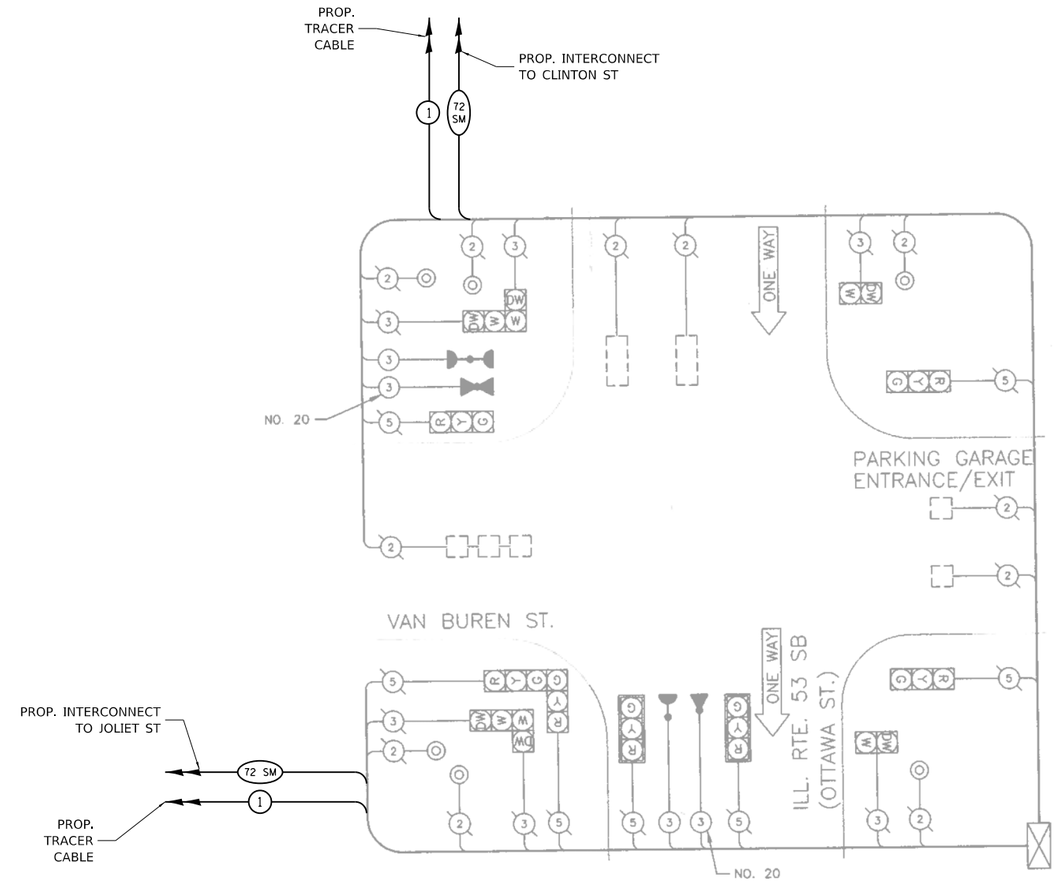
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN MOVEMENT
- * — NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN
NOT TO SCALE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	7	11	77
	4-SECTION	-	14	-
	5-SECTION	-	13	-
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		6	15	90
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
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				**377**
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				**982**

ENERGY COSTS - BILLED TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____
METER NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	12

LOCATION NO. 14
TS 22545
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shared\HNTB\TERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-pn-CABLE-ECON 121.dgn

iteris

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	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
IL ROUTE 53 (OTTAWA STREET) AND VAN BUREN STREET

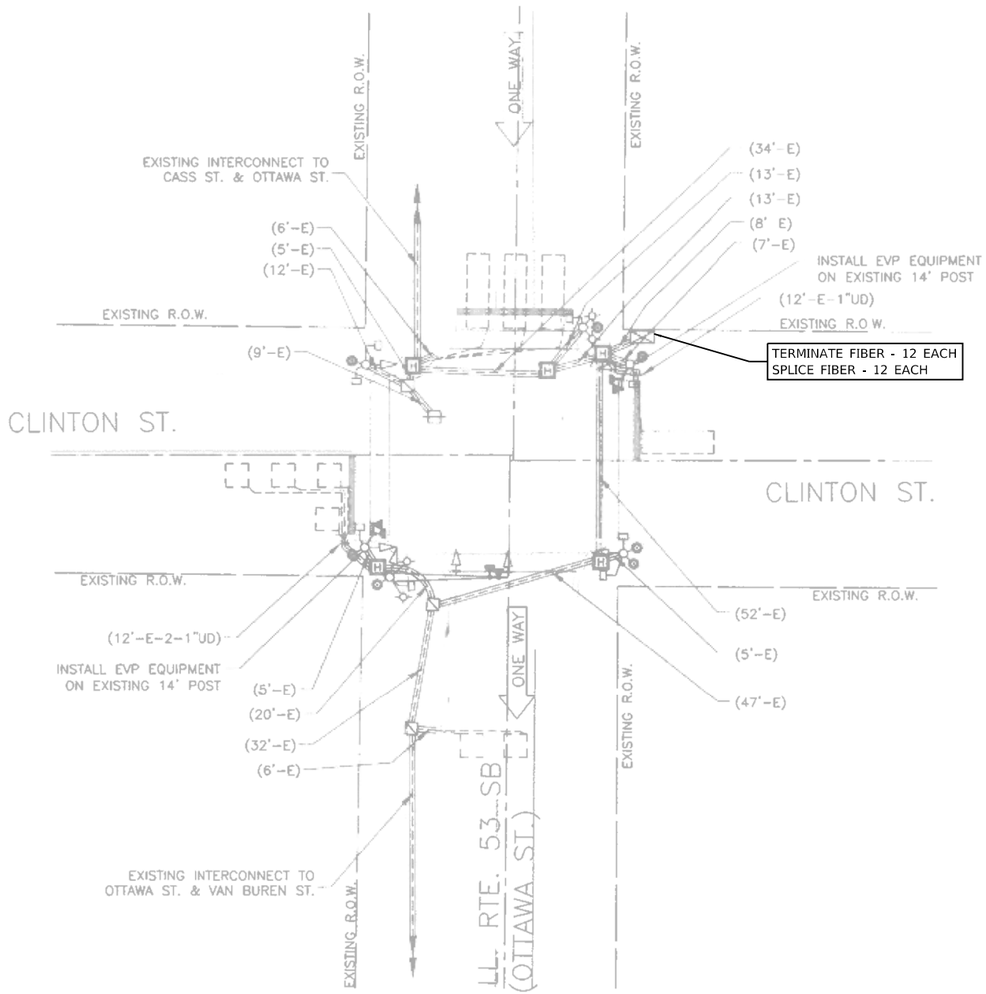
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	41
		CONTRACT NO. XXXXX		
		ILLINOIS	FED. AID PROJECT	

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 15
TS 22539
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase AI\CADD\Sheet Files\Joliet ATMS-int-TS MOD-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -

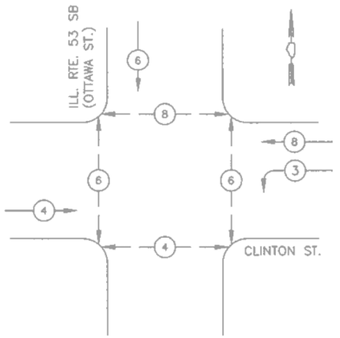
CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 53 (OTTAWA STREET) AND CLINTON STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	42
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

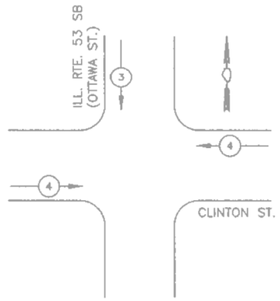


LEGEND

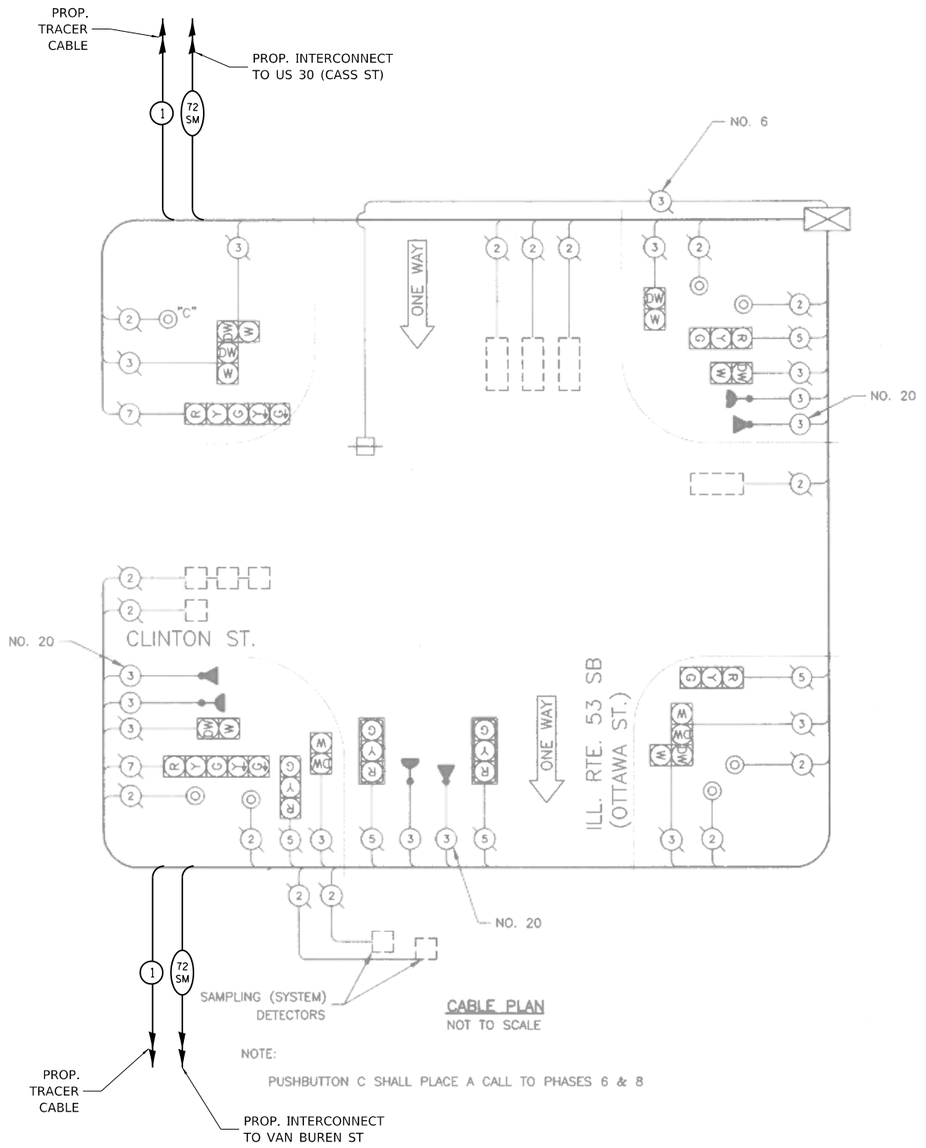
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN MOVEMENT
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN
NOT TO SCALE

NOTE:

PUSHBUTTON C SHALL PLACE A CALL TO PHASES 6 & 8

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	5	11	55
	4-SECTION	-	14	-
	5-SECTION	2	13	26
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
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				**411**
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				**1016**

ENERGY COSTS - BILLED TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____
METER NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	12

LOCATION NO. 15
TS 22539
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\1612 - Joliet CTMS Phase A\CAD\Sheet Files\Joliet ATMS-pH-CABLE-ECON 121.dgn

iteris

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	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
IL ROUTE 53 (OTTAWA STREET) AND CLINTON STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	43
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.

N



LOCATION NO. 16
TS 22538
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shareoath\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase 2\CADD\Sheet Files\Joliet ATMS-Int-TS MOD-ECON 121.dgn

iteris

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	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 53 (SCOTT STREET) AND VAN BUREN STREET

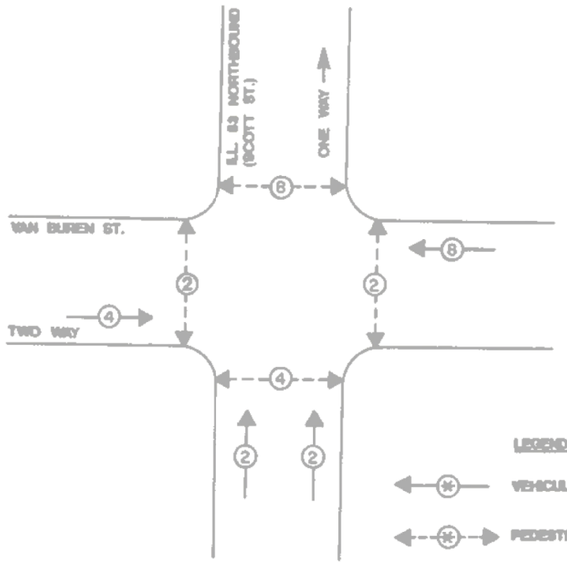
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	44
		CONTRACT NO. XXXXX		
	ILLINOIS	FED. AID PROJECT		

PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2389-I, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

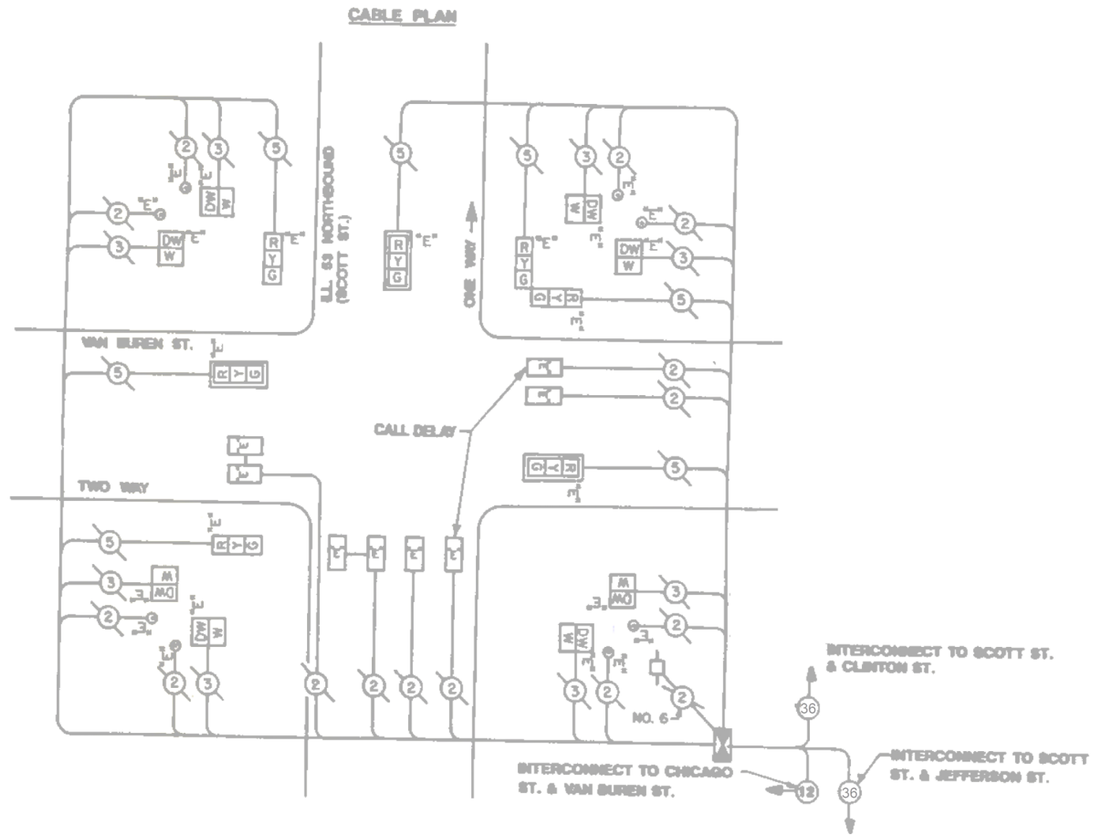


LEGEND

- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

CABLE PLAN



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	7	11	77
	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
DETECTION RADAR OR VIDEO		-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	II OR III	1	35	35
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				**407**
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				**1012**

ENERGY COSTS - BILLED TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____
METER NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
Ssplice FIBER IN CABINET	EACH	12

LOCATION NO. 16
TS 22538
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shared\mt\ITERIS INC\Systems - Midwest - Active Projects\1612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-pri-CABLE-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
IL ROUTE 53 (SCOTT STREET) AND VAN BUREN STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	45
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 17
TS 22540
FORMER ECON 121
JOLIET CTMS

MODEL: Default
FILE NAME: C:\Shared\int\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-ph-TS MOD-ECON 121.dgn

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 53 (SCOTT STREET) AND CLINTON STREET

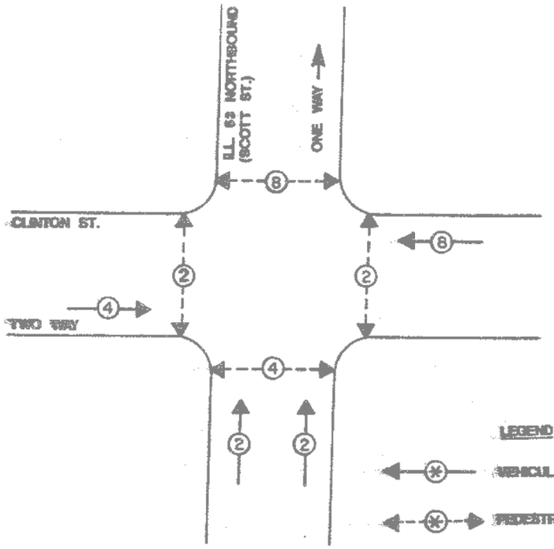
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	46
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2303-I, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

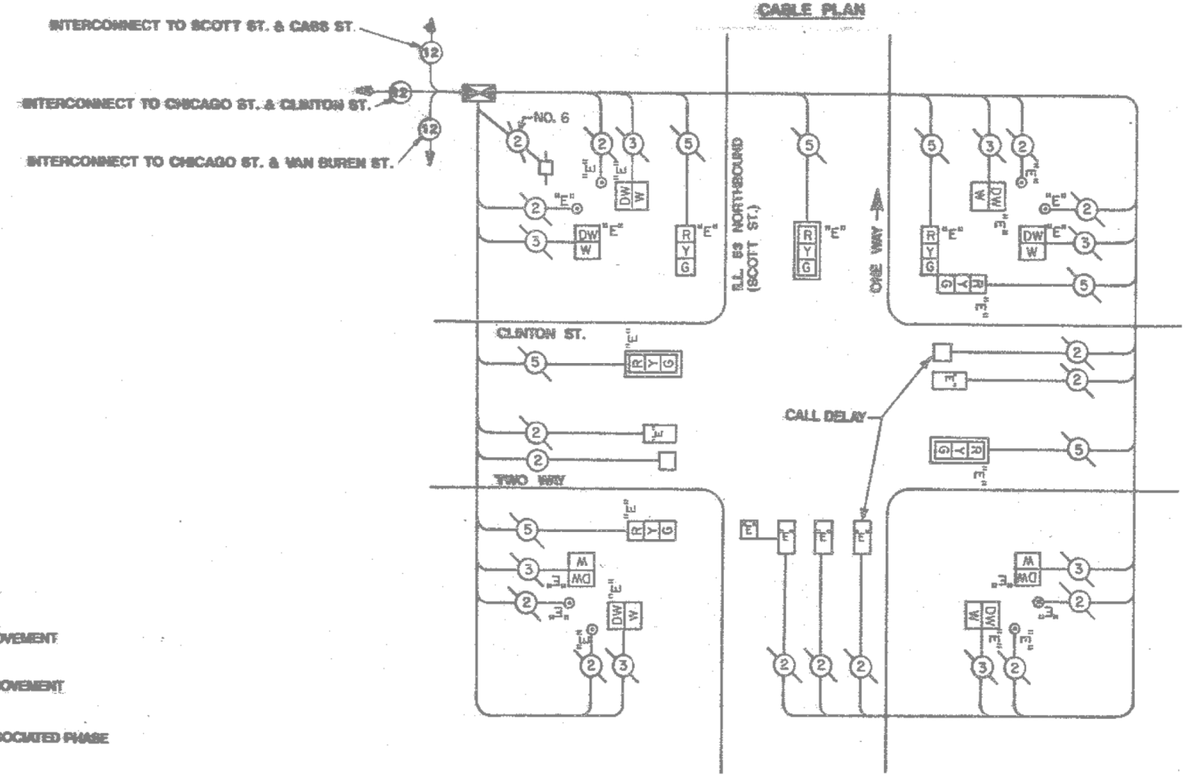


LEGEND

- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

CABLE PLAN



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	7	11	77
	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
DETECTION	RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	II OR III	1	35	35
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				**407**
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				**1012**

ENERGY COSTS - BILLED TO:
CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____
METER NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
Ssplice FIBER IN CABINET	EACH	12

LOCATION NO. 17
TS 22540
FORMER ECON 121
JOLIET CTMS

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
IL ROUTE 53 (SCOTT STREET) AND CLINTON STREET
SCALE: | SHEET OF SHEETS | STA. TO STA.

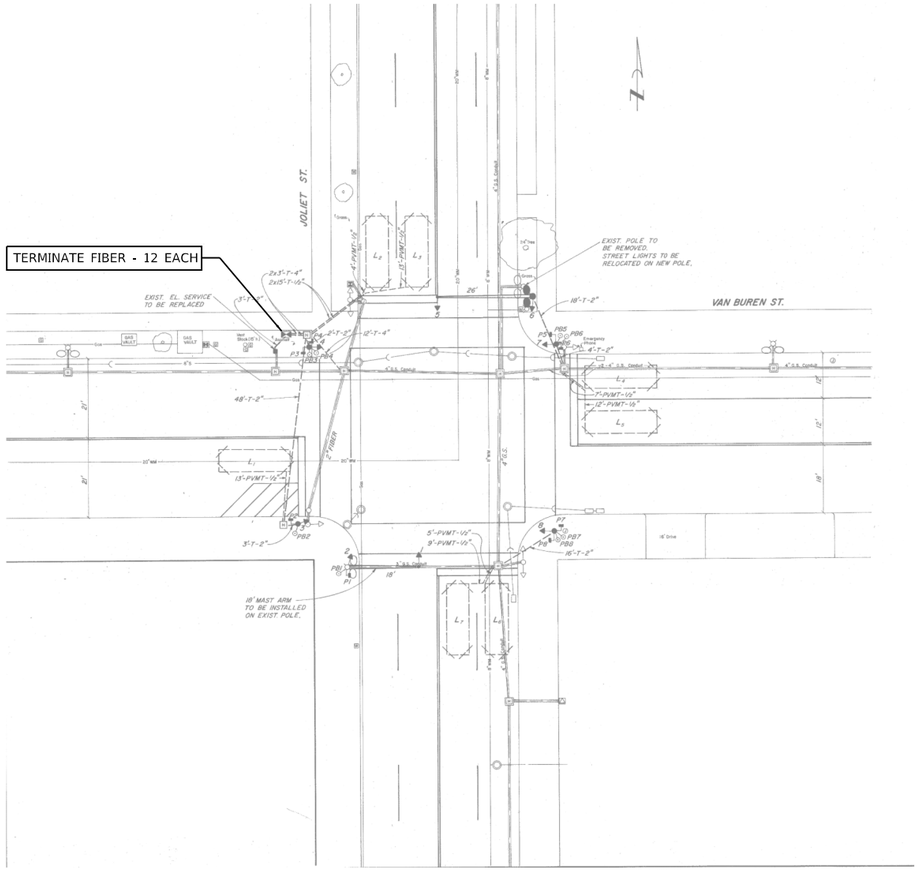
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	47
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-int-CABLE-ECON 121.dgn

NOTES:

1. THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED WORK. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES.

2. THE EXISTING FIBER OPTIC TRANSCEIVER TO BE ABANDONED IN CABINET.



LOCATION NO. 18
TS 22543
FORMER ECON 121
JOLIET CTMS

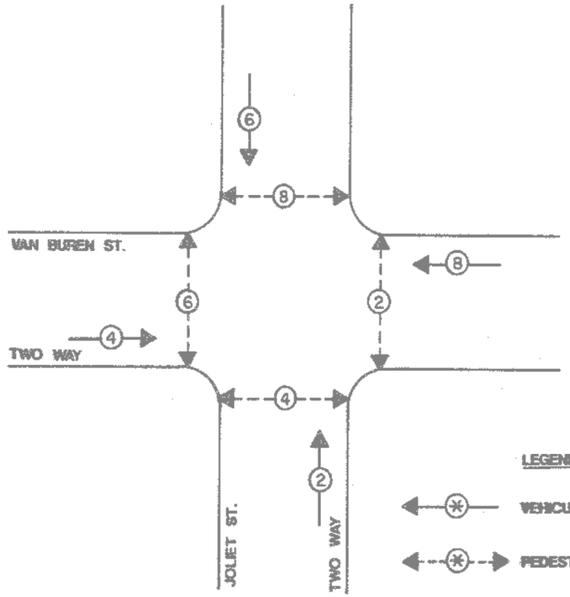
iteris	USER NAME = bfunk	DESIGNED - BF	REVISED -	CITY OF JOLIET	TRAFFIC SIGNAL MODIFICATION PLAN JOLIET STREET AND VAN BUREN STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BF	REVISED -			VAR	21-00546-01-TL	WILL	125	48
	PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -					CONTRACT NO. XXXXX		
	PLOT DATE = 4/16/2024	DATE - 2/28/24	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Active Projects\11612 - Joliet CTMS Phase A\CADD\Sheet Files\Joliet ATMS-int-TS MOD-ECON 121.dgn

PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2393-I, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



LEGEND

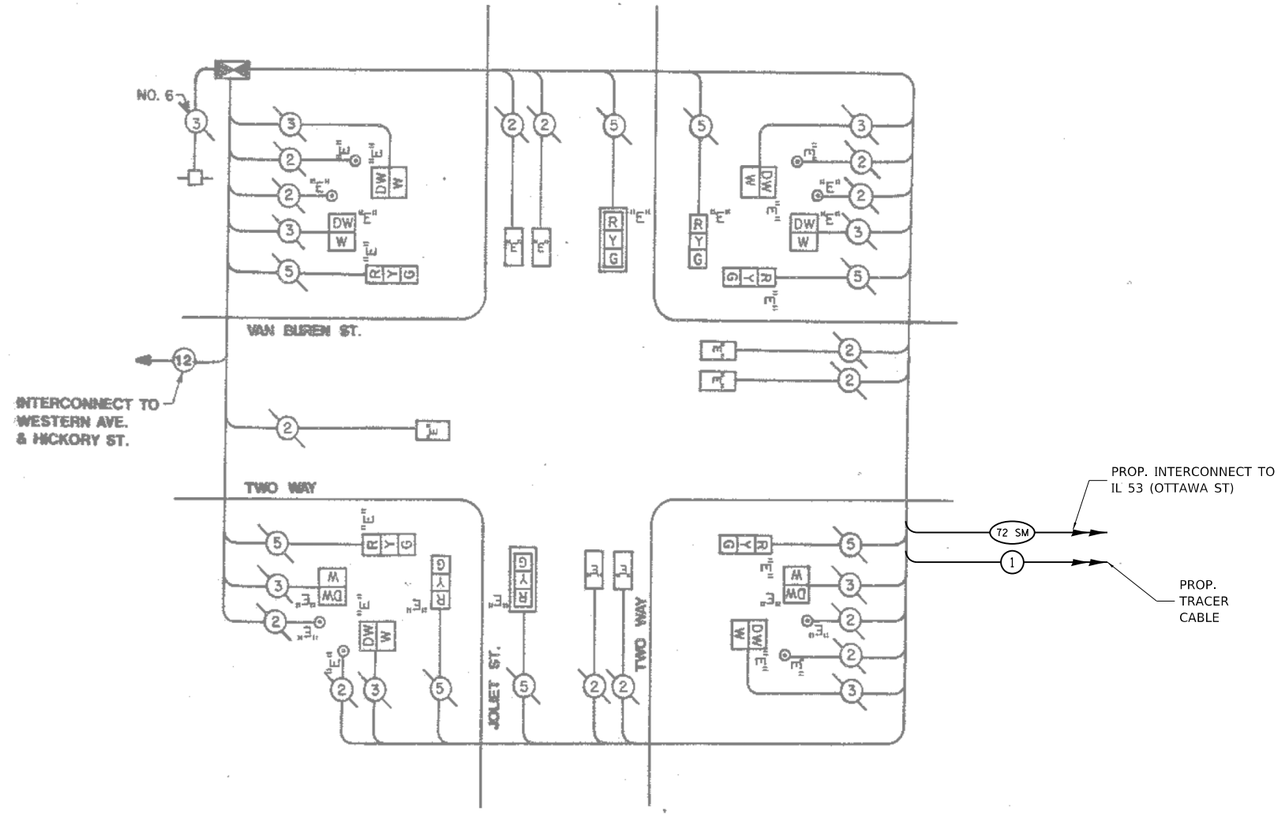
VEHICULAR MOVEMENT

PEDESTRIAN MOVEMENT

* NUMBER REFERS TO ASSOCIATED PHASE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

CABLE PLAN



N

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	8	11	88
	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		-	25	-
DETECTION RADAR OR VIDEO		-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	II OR III	1	35	35
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				**393**
UPS CHARGING		-	225	-
BATTERY HEATER MAT		-	180	-
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
TOTAL SERVICE WIRE SIZING				**593**

ENERGY COSTS - BILLED TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____
METER NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
TERMINATE FIBER IN CABINET	EACH	12

LOCATION NO. 18
TS 22543
FORMER ECON 121
JOLIET CTMS

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -	
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PLOT SCALE = 100.0000 ' / in.	CHECKED - AG	REVISED -	
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CITY OF JOLIET

TRAFFIC SIGNAL CABLE PLAN
JOLIET STREET AND VAN BUREN STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	21-00546-01-TL	WILL	125	49
		CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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