

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	80	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 62H79		

90+1= 91 TOTAL SHEETS

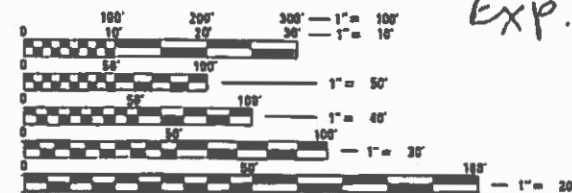
D-91-116-19

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**
VARIOUS LOCATIONS IN THE CITY OF JOLIET
SECTION: 2018-141-TS&I
PROJECT: HSIP-ACIX (743)
TRAFFIC SIGNAL MODERNIZATION AND
RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATE INSTALLATION
WILL COUNTY
C-91-321-19



P.K. Gandhi
2-6-2020
Exp. 11-30-2021.

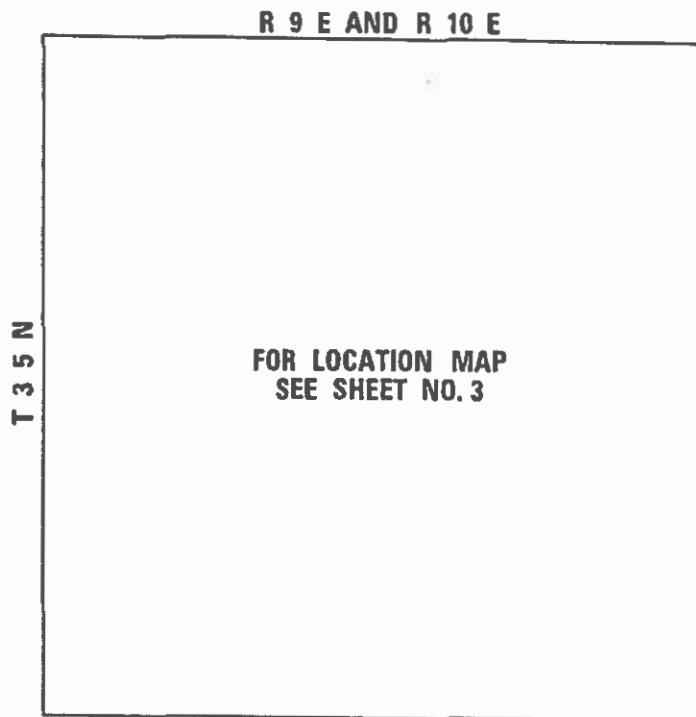


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: IOVAN PLASCENCIA / KAMIL KOBYLKA
PROJECT MANAGER: LUKASZ POCIECHA

CONTRACT NO. 62H79



FOR LOCATION MAP
SEE SHEET NO. 3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *Feb 6* 20 *20*

Stephen J. Gienke
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Marko J. Gienke
ENGINEER OF DESIGN AND ENVIRONMENT

Marko J. Gienke
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

REV-SEP

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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30-34	TS 21780: US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE
35-39	TS 21803: US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)
40-44	TS 22526: US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)
45-49	TS 22527: US RTE 30 EB (JEFFERSON ST) AT HICKORY ST
50-54	TS 22528: US RTE 30 EB (JEFFERSON ST) AT JOLIET ST
55-59	TS 22534: US RTE 30 WB (CASS ST) AT JOLIET ST
60-64	TS 22533: US RTE 30 WB (WESTERN AVE) AT HICKORY ST
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89	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
90	ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STD. NO.	TITLE
000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
877011-10	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-07	STEEL COMB. MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

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

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

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

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

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

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

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

THE HOLE FOR THE EXISTING CONDUIT TO BE ABANDONED THROUGHOUT THIS PROJECT AT ANY EXISTING HANDHOLES WILL BE PLUGGED UPON COMPLETION OF THE TRAFFIC SIGNAL WORK.

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

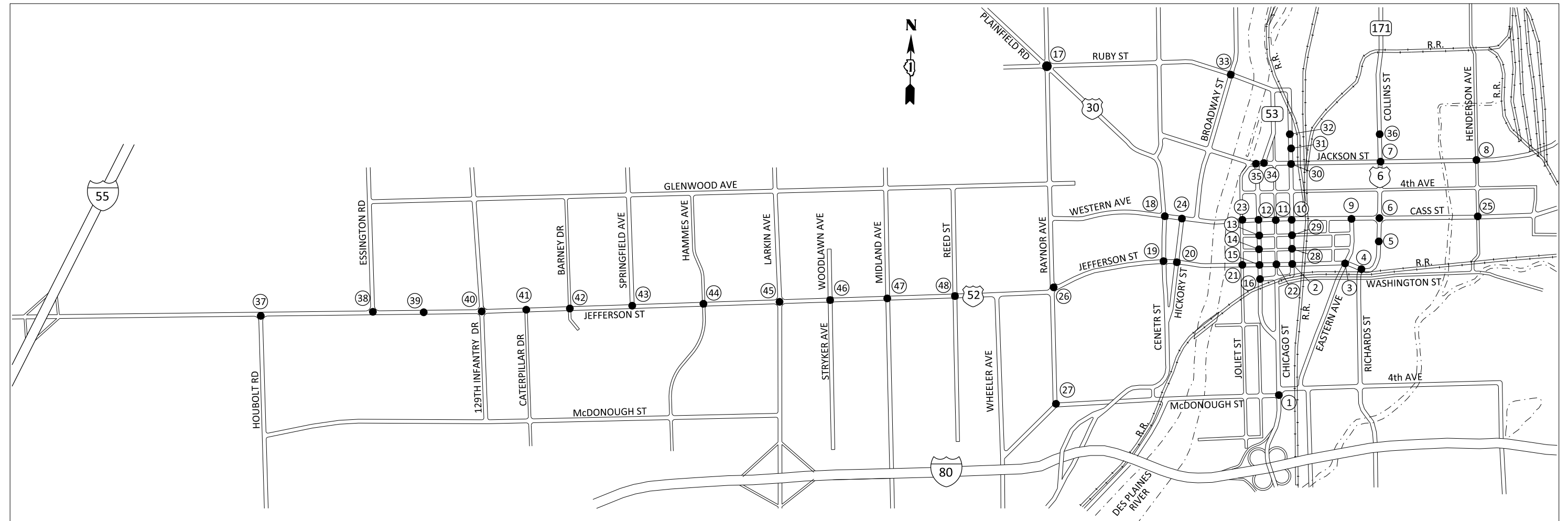
LOCATIONS WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THE THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO INSURE ADA COMPLIANCE.

CONTRACTOR SHALL ABANDON EXISTING CABLES IN CONDUIT UNLESS NOTED OTHERWISE ON THE PLANS. ALL ABANDONED CABLES SHALL BE TAGGED AND LABELED "ABANDONED" AT ALL HANDHOLES THEY PASS THROUGH OR TERMINATE IN. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT" AND NO EXTRA COMPENSATION SHALL BE MADE.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT BORING AND DRILLING THROUGH BEDROCK AND COBBLE DEFINED AS ROCK HEREIN MAY BE REQUIRED. IF BORING AND/OR DRILLING THROUGH ROCK IS REQUIRED, THE CONTRACTOR WILL BE PAID FOR DIRECTIONAL BORING THROUGH ROCK AND DRILLED SHAFT IN ROCK IN ADDITION TO THE ITEMS SHOWN ON THE PLANS. NOMINAL QUANTITIES HAVE BEEN PROVIDED IF AND WHEN BORING AND/OR DRILLING THROUGH ROCK IS REQUIRED.

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
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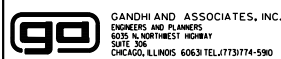
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	2
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



LOCATION NO.	TS NO.	INTERSECTION NAME	MUNICIPALITY	COUNTY
1.	21825	US RTE 6 - US RTE 52 (MCDONOUGH ST)/ 4TH AVE AT IL RTE 53 - US RTE 52 - US RTE 6 (CHICAGO ST)	JOLIET	WILL
2.	22531	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 NB (SCOTT ST)	JOLIET	WILL
3.	21782	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT EASTERN AVE	JOLIET	WILL
4.	22563	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT RICHARDS ST	JOLIET	WILL
5.	7613	US RTE 6 - US RTE 30 EB (COLLINS ST) AT HERKIMER DR	JOLIET	WILL
6.	21781	US RTE 6 - US RTE 30 (CASS ST) AT US RTE 6 - US RTE 30 (COLLINS ST)	JOLIET	WILL
7.	22555	US RTE 6 (JACKSON ST) AT US RTE 6 - IL RTE 171 (COLLINS ST)	JOLIET	WILL
8.	22554	US RTE 6 (JACKSON ST) AT HENDERSON AVE	JOLIET	WILL
9.	21780	US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE	JOLIET	WILL
10.	21803	US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)	JOLIET	WILL
11.	22536	US RTE 6 - US RTE 30 WB (CASS ST) AT CHICAGO ST	JOLIET	WILL
12.	22353	US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 SB (OTTAWA ST)	JOLIET	WILL
13.	22539	US RTE 6 - IL RTE 53 SB (OTTAWA ST) AT CLINTON ST	JOLIET	WILL
14.	22545	US RTE 6 - IL RTE 53 SB (OTTAWA ST) AT VAN BUREN ST	JOLIET	WILL
15.	22529	US RTE 6 - IL RTE 53 SB (OTTAWA ST) AT US RTE 30 EB (JEFFERSON ST)	JOLIET	WILL
16.	22537	US RTE 6 - IL RTE 53 SB (OTTAWA ST) AT WASHINGTON ST	JOLIET	WILL
17.	7507	US RTE 30 (PLAINFIELD RD) AT RAYNOR AVE AT RUBY ST/ BLACK ST	JOLIET	WILL
18.	22532	US RTE 30 (WESTERN AVE) AT US RTE 30 (CENTER ST)	JOLIET	WILL
19.	22526	US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)	JOLIET	WILL
20.	22527	US RTE 30 EB (JEFFERSON ST) AT HICKORY ST	JOLIET	WILL
21.	22528	US RTE 30 EB (JEFFERSON ST) AT JOLIET ST	JOLIET	WILL
22.	22530	US RTE 30 EB (JEFFERSON ST) AT CHICAGO ST	JOLIET	WILL
23.	22534	US RTE 30 WB (CASS ST) AT JOLIET ST	JOLIET	WILL
24.	22533	US RTE 30 WB (WESTERN AVE) AT HICKORY ST	JOLIET	WILL
25.	22552	US RTE 30 (CASS ST) AT HENDERSON AVE	JOLIET	WILL

LOCATION NO.	TS NO.	INTERSECTION NAME	MUNICIPALITY	COUNTY
26.	22520	US RTE 52 (JEFFERSON ST) AT US RTE 52 (RAYNOR AVE)	JOLIET	WILL
27.	21828	US RTE 52 (RAYNOR AVE) AT US RTE 52 (MCDONOUGH ST) / PARK AVE	JOLIET	WILL
28.	22538	IL RTE 53 NB (SCOTT ST) AT VAN BUREN ST	JOLIET	WILL
29.	22540	IL RTE 53 NB (SCOTT ST) AT CLINTON ST	JOLIET	WILL
30.	21802	IL RTE 53 NB (SCOTT ST) AT JACKSON ST	JOLIET	WILL
31.	21801	IL RTE 53 NB (SCOTT ST) AT CLAY ST	JOLIET	WILL
32.	21800	IL RTE 53 NB (SCOTT ST) AT OHIO ST	JOLIET	WILL
33.	7513	IL RTE 53 (RUBY ST) AT IL RTE 53 (BROADWAY ST)	JOLIET	WILL
34.	22546	IL RTE 53 (JACKSON ST) AT IL RTE 53 (OTTAWA ST) EAST	JOLIET	WILL
35.	22546	IL RTE 53 (JACKSON ST) AT IL RTE 53 (OTTAWA ST) WEST	JOLIET	WILL
36.	22556	IL RTE 171 (COLLINS ST) AT OHIO ST	JOLIET	WILL
37.	22509	US RTE 52 (JEFFERSON ST) AT HOUBOLT RD	JOLIET	WILL
38.	22510	US RTE 52 (JEFFERSON ST) AT ESSINGTON RD	JOLIET	WILL
39.	22564	US RTE 52 (JEFFERSON ST) AT PARK DISTRICT ENTRANCE	JOLIET	WILL
40.	22511	US RTE 52 (JEFFERSON ST) AT 129TH INFANTRY DR	JOLIET	WILL
41.	22512	US RTE 52 (JEFFERSON ST) AT CATERPILLAR DR	JOLIET	WILL
42.	22513	US RTE 52 (JEFFERSON ST) AT BARNEY DR	JOLIET	WILL
43.	22514	US RTE 52 (JEFFERSON ST) AT SPRINGFIELD AVE	JOLIET	WILL
44.	22515	US RTE 52 (JEFFERSON ST) AT HAMMES AVE	JOLIET	WILL
45.	22516	US RTE 52 (JEFFERSON ST) AT IL RTE 7 (LARKIN AVE)	JOLIET	WILL
46.	22517	US RTE 52 (JEFFERSON ST) AT STRYKER AVE / WOODLAWN AVE	JOLIET	WILL
47.	22518	US RTE 52 (JEFFERSON ST) AT MIDLAND AVE	JOLIET	WILL
48.	22519	US RTE 52 (JEFFERSON ST) AT REED ST	JOLIET	WILL

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USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
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PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAP

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	3
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

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LOCATION INDEX			
	LOCATION NUMBER	TS NO.	INTERSECTION NAME
TRAFFIC SIGNALS	2	22531	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 NB (SCOTT ST)
	9	21780	US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE
	10	21803	US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)
	19	22526	US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)
	20	22527	US RTE 30 EB (JEFFERSON ST) AT HICKORY ST
	21	22528	US RTE 30 EB (JEFFERSON ST) AT JOLIET ST
	23	22534	US RTE 30 WB (CASS ST) AT JOLIET ST
	24	22533	US RTE 30 WB (WESTERN AVE) AT HICKORY ST
	30	21802	IL RTE 53 NB (SCOTT ST) AT JACKSON ST
	LIGHTING	2	22531
9		21780	US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE
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	3	21782	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT EASTERN AVE
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	6	21781	US RTE 6 - US RTE 30 (CASS ST) AT US RTE 6 - US RTE 30 (COLLINS ST)
	7	22555	US RTE 6 (JACKSON ST) AT US RTE 6 - IL RTE 171 (COLLINS ST)
	8	22554	US RTE 6 (JACKSON ST) AT HENDERSON AVE
	11	22536	US RTE 6 - US RTE 30 WB (CASS ST) AT CHICAGO ST
	12	22353	US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 SB (OTTAWA ST)
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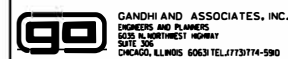
LOCATION INDEX			
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	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES LOCATION INDEX				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO	STA.	VAR	2018-141-TS&I	WILL
PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -					FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				CONTRACT NO. 62H79			

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet Road\NCAD_Sheets\RI-4_SDD-82.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE													
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET
			LOCATION NUMBER	2, 19	9, 20, 21, 23, 24	10, 30	2	9, 20, 21, 23, 24	30	1, 7, 18, 26	3, 4, 8, 11, 13, 14, 16, 25, 27, 28, 29, 32, 33, 36, 37, 39, 40, 41, 42, 44, 46, 47, 48	5	6, 12, 15, 45	17	22, 31, 34, 35, 38, 43		2, 9, 10, 19, 20, 21, 23, 24, 30
				TRAFFIC SIGNALS				LIGHTING				RETROREFLECTIVE BACKPLATES				INTERCONNECT	EVP AND LED SIGNS
				0021													
20200200	ROCK EXCAVATION	CU YD	16.25	4.25	7.5	4.5											
51604000	DRILLED SHAFT IN ROCK	CU YD	44	12	22.5	9.5											
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	180			180											
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4			4											
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1			1											
* 66901003	REGULATED SUBSTANCES FINAL-CONSTRUCTION REPORT	L SUM	1			1											
* 66901006	REGULATED SUBSTANCES MONITORING	DAYS	9			9											
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	15			15											
67100100	MOBILIZATION	LSUM	1			1											
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1			1											
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1			1											
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1			1											
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1			1											

*** SPECIALTY ITEM**



USER NAME = #USER#	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISED -
PLOT DATE = #DATE#	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

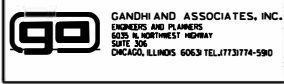
**SUMMARY OF QUANTITIES
(SHEET 1 OF 8)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	5
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

FILE NAME: K:\PROJECTS\Projects\2018\DOT Joliet Road\CAD\Sheet\N1-4_S00-03.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	LOCATION NUMBER	CONSTRUCTION CODE														
					TRAFFIC SIGNALS			LIGHTING			RETROREFLECTIVE BACKPLATES					INTERCONNECT	EVP AND LED SIGNS		
					90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 10% STATE	100% JOLIET	
					2, 19	9, 20, 21, 23, 24	10, 30	2	9, 20, 21, 23, 24	30	1, 7, 18, 26	3, 4, 8, 11, 13, 14, 16, 25, 27, 28, 29, 32, 33, 36, 37, 39, 40, 41, 42, 44, 46, 47, 48	5	6, 12, 15, 45	17	22, 31, 34, 35, 38, 43		2, 9, 10, 19, 20, 21, 23, 24, 30	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3,016															344	
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	407																
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	2,474																
81400100	HANDHOLE	EACH	18																
81400300	DOUBLE HANDHOLE	EACH	13																
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,925					200	2,507	218									
81800230	AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	863					195	533	135									
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	16															12	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	9																
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	12,350															12,350	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	8,950																
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	12,224																



USER NAME = \$USER*	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE*		


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES (SHEET 2 OF 8)			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	6
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT				

FILE NAME = K:\PROJECTS\Projects\2018\DOT\Joliet_Roads\CADD_Sheets\RI-4_SDD-84.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE														
				TRAFFIC SIGNALS			LIGHTING			RETROREFLECTIVE BACKPLATES					INTERCONNECT	EVP AND LED SIGNS		
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 10% STATE
				2, 19	9, 20, 21, 23, 24	10, 30	2	9, 20, 21, 23, 24	30	1, 7, 18, 26	3, 4, 8, 11, 13, 14, 16, 25, 27, 28, 29, 32, 33, 36, 37, 39, 40, 41, 42, 44, 46, 47, 48	5	6, 12, 15, 45	17	22, 31, 34, 35, 38, 43		2, 9, 10, 19, 20, 21, 23, 24, 30	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	10,500	2,145	6,082	2,273												
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	837		507	330												
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	400	400														
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	1,548	445	707	396												
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	5,544	1,460	2,877	1,207												
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	15	4	8	3												
87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1	1														
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1	1														
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2			2												
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	3	1	2													
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1													
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1	1														

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 NORTHWEST HWY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER*	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISOR -		
	PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISOR -	
	PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISOR -	

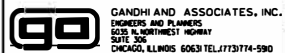
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
(SHEET 3 OF 8)			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	7
			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet Road\NCADD_Sheets\RI-4_SDD-05.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE														INTERCONNECT	EVP AND LED SIGNS
				TRAFFIC SIGNALS		LIGHTING			RETROREFLECTIVE BACKPLATES					90% FEDERAL 10% STATE	100% JOLIET				
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET			90% FEDERAL 6.7% STATE 3.3% JOLIET			
				2, 19	9, 20, 21, 23, 24	10, 30	2	9, 20, 21, 23, 24	30	1, 7, 18, 26	3, 4, 8, 11, 13, 14, 16, 25, 27, 28, 29, 32, 33, 36, 37, 39, 40, 41, 42, 44, 46, 47, 48	5	6, 12, 15, 45	17	22, 31, 34, 35, 38, 43		2, 9, 10, 19, 20, 21, 23, 24, 30		
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		1														
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	3		1	2													
87702830	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	EACH	1		1														
87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	2		2														
87702870	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	2		1	1													
87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1		1														
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	3	1	2														
87702990	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1		1														
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	96	24	52	20													
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	36	8	20	8													
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	214.5	57	127.5	30													
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54		28	26													

	USER NAME = \$USER*	DESIGNED - EA	REVISED -
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISED -
	PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES (SHEET 4 OF 8)			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	8
			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				


FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\RI-4_SDD-86.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE														
				TRAFFIC SIGNALS			LIGHTING			RETROREFLECTIVE BACKPLATES					INTERCONNECT		EVP AND LED SIGNS	
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 6.7% STATE 3.3% JOLIET
				2, 19	9, 20, 21, 23, 24	10, 30	2	9, 20, 21, 23, 24	30	1, 7, 18, 26	3, 4, 8, 11, 13, 14, 16, 25, 27, 28, 29, 32, 33, 36, 37, 39, 40, 41, 42, 44, 46, 47, 48	5	6, 12, 15, 45	17	22, 31, 34, 35, 38, 43		2, 9, 10, 19, 20, 21, 23, 24, 30	
87900200	DRILL EXISTING HANDHOLE	EACH	40	6	21	9										4		
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	51	11	29	11												
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	21	6	11	4												
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3		2	1												
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3		2	1												
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	74	20	38	16												
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	282	11	31	12			22	135	8	20	15	28				
88500100	INDUCTIVE LOOP DETECTOR	EACH	3	3														
88600100	DETECTOR LOOP, TYPE I	FOOT	280	280														
88700200	LIGHT DETECTOR	EACH	18														18	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	9														9	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	72	18	38	16												

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS SUITE 200 CHICAGO, ILLINOIS 60639 TEL: (773) 714-5900	USER NAME = \$USER*	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES (SHEET 5 OF 8)				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - EA, AV	REVISOR -	SCALE: N.T.S.		SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2018-141-TS&I	WILL	90	9
	PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISOR -						CONTRACT NO. 62H79		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT		
PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISOR -											

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE														
				TRAFFIC SIGNALS			LIGHTING			RETROREFLECTIVE BACKPLATES						INTERCONNECT	EVP AND LED SIGNS	
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 10% STATE
				2, 19	9, 20, 21, 23, 24	10, 30	2	9, 20, 21, 23, 24	30	1, 7, 18, 26	3, 4, 8, 11, 13, 14, 16, 25, 27, 28, 29, 32, 33, 36, 37, 39, 40, 41, 42, 44, 46, 47, 48	5	6, 12, 15, 45	17	22, 31, 34, 35, 38, 43		2, 9, 10, 19, 20, 21, 23, 24, 30	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	5	2	2	1												
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	24,844													24,844		
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	359													359		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	48	2	5	2			4	23	1	4	1	6				
89502380	REMOVE EXISTING HANDHOLE	EACH	30	9	13	8												
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	7	3	3	1												
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	54	13	30	11												
X0322951	CABLE SPLICE SPECIAL	EACH	7				1	5	1									
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	2,701														2,701	
X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	22														22	
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	7	2	5													
X1400108	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	2			2												

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 505 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60659 TEL: (773) 714-5900	USER NAME = \$USER*	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISOR -	
	CHECKED - PKG	REVISOR -	
	DATE - 2/6/2020	REVISOR -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES (SHEET 6 OF 8)			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	10
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

FILE NAME: K:\PROJECTS\Projects\2018\DOT - Joliet, Roads\CADD_Sheets\01-4_SDD-88.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE													
				TRAFFIC SIGNALS			LIGHTING			RETROREFLECTIVE BACKPLATES					INTERCONNECT	EVP AND LED SIGNS	
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 6.7% STATE 3.3% JOLIET
				2, 19	9, 20, 21, 23, 24	10, 30	2	9, 20, 21, 23, 24	30	1, 7, 18, 26	3, 4, 8, 11, 13, 14, 16, 25, 27, 28, 29, 32, 33, 36, 37, 39, 40, 41, 42, 44, 46, 47, 48	5	6, 12, 15, 45	17	22, 31, 34, 35, 38, 43		2, 9, 10, 19, 20, 21, 23, 24, 30
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	9	2	5	2											
X1400238	LUMINAIRE, LED, SPECIAL	EACH	16				2	12	2								
X1400360	DIRECTIONAL BORING THROUGH ROCK	FOOT	1,400	420	620	360											
X1400367	PEDESTRIAN SIGNAL POST, 10 FT	EACH	18	7	7	4											
X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	21	3	13	5											
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	7				1	5	1								
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	9	2	5	2											
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	12,350													12,350	
X8772115	TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	6				1	4	1								
X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	72	28	28	16											
X8950100	RELOCATE EXISTING MASTER CONTROLLER	EACH	2			2											
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	308.4	102.8	128.5	77.1											
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	16				2	12	2								



USER NAME = \$USER*	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE*	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES (SHEET 7 OF 8)			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	11
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE														
				TRAFFIC SIGNALS			LIGHTING			RETROREFLECTIVE BACKPLATES						INTERCONNECT	EVP AND LED SIGNS	
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 10% STATE	100% JOLIET	
				2, 19	9, 20, 21, 23, 24	10, 30	2	9, 20, 21, 23, 24	30	1, 7, 18, 26	3, 4, 8, 11, 13, 14, 16, 25, 27, 28, 29, 32, 33, 36, 37, 39, 40, 41, 42, 44, 46, 47, 48	5	6, 12, 15, 45	17	22, 31, 34, 35, 38, 43		2, 9, 10, 19, 20, 21, 23, 24, 30	
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12				1.8	8.5	1.7									
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	9													9		
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	5	2	2	1												
X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	3,042														3,042	

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HWY SUITE 305 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = #USER#	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISOR -	
	CHECKED - PKG	REVISOR -	
	DATE - 2/6/2020	REVISOR -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES (SHEET 8 OF 8)			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	12
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

TRAFFIC SIGNAL LEGEND

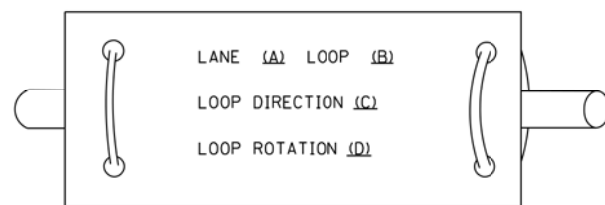
(NOT TO SCALE)

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

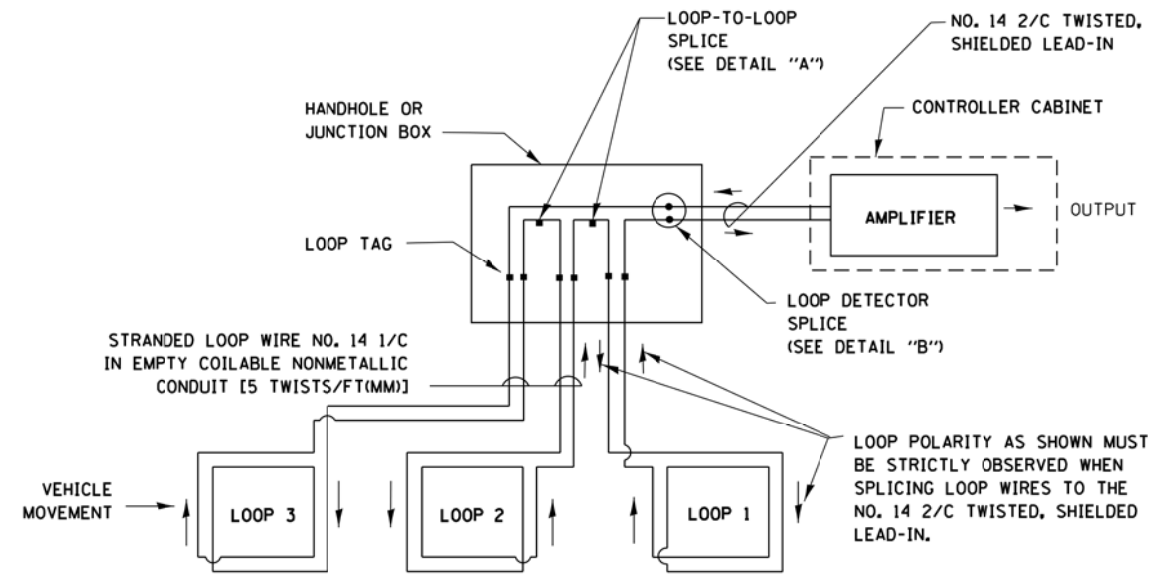
LOOP DETECTOR NOTES

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

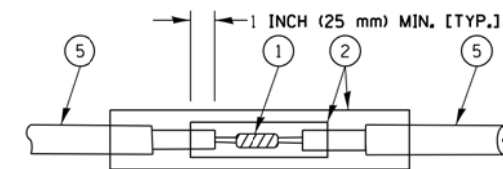


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

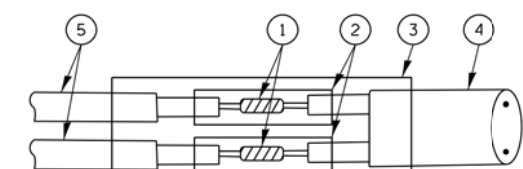


DETECTOR LOOP WIRING SCHEMATIC

- 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.

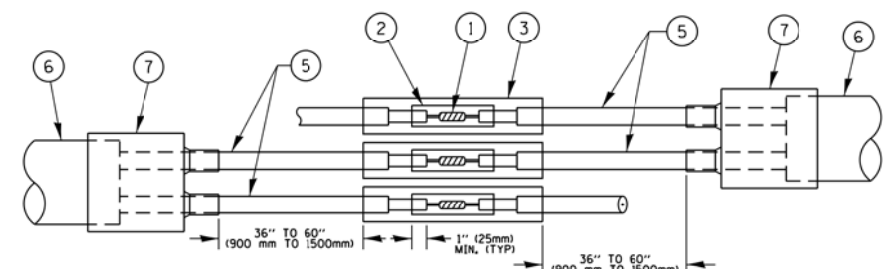


DETAIL "A"
LOOP-TO-LOOP SPLICE

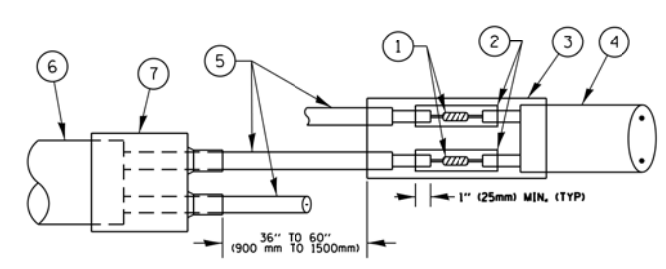


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

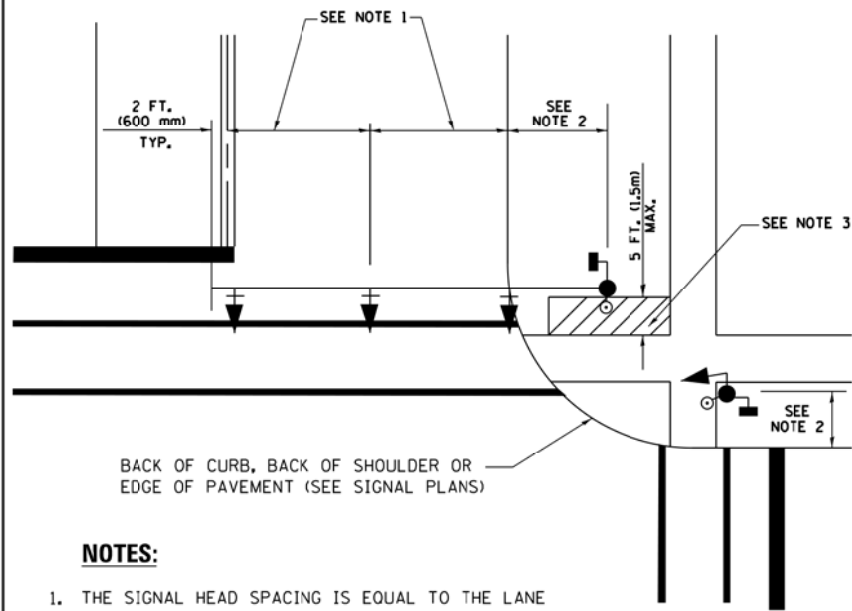
PRE-FORMED LOOP

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 LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = plascencia	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
S:\WP\Design\Iovan\SamplePlans\DNFFiles\TSE\sample01-sht-ts.dgn		DRAWN -	REVISED -		SCALE: NONE	SHEET 2	OF 7 SHEETS	STA.	TO STA.	VAR	2018-141-TS&I	WILL	90	14
Default		CHECKED -	REVISED -					TS-05		CONTRACT NO. 62H79				
		DATE -	REVISED -		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT									

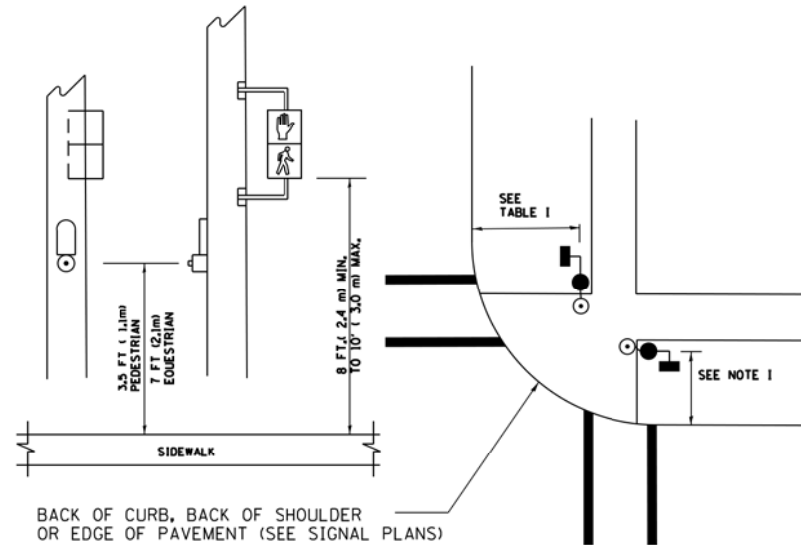
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

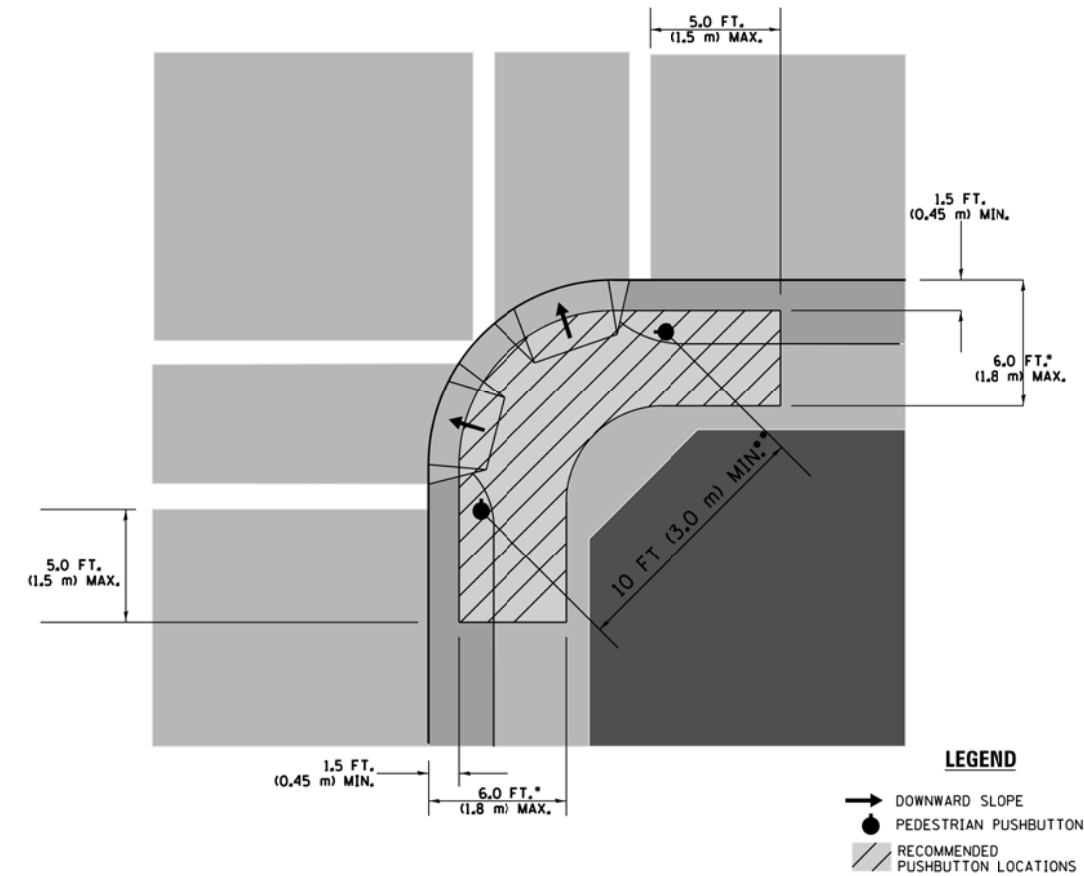
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

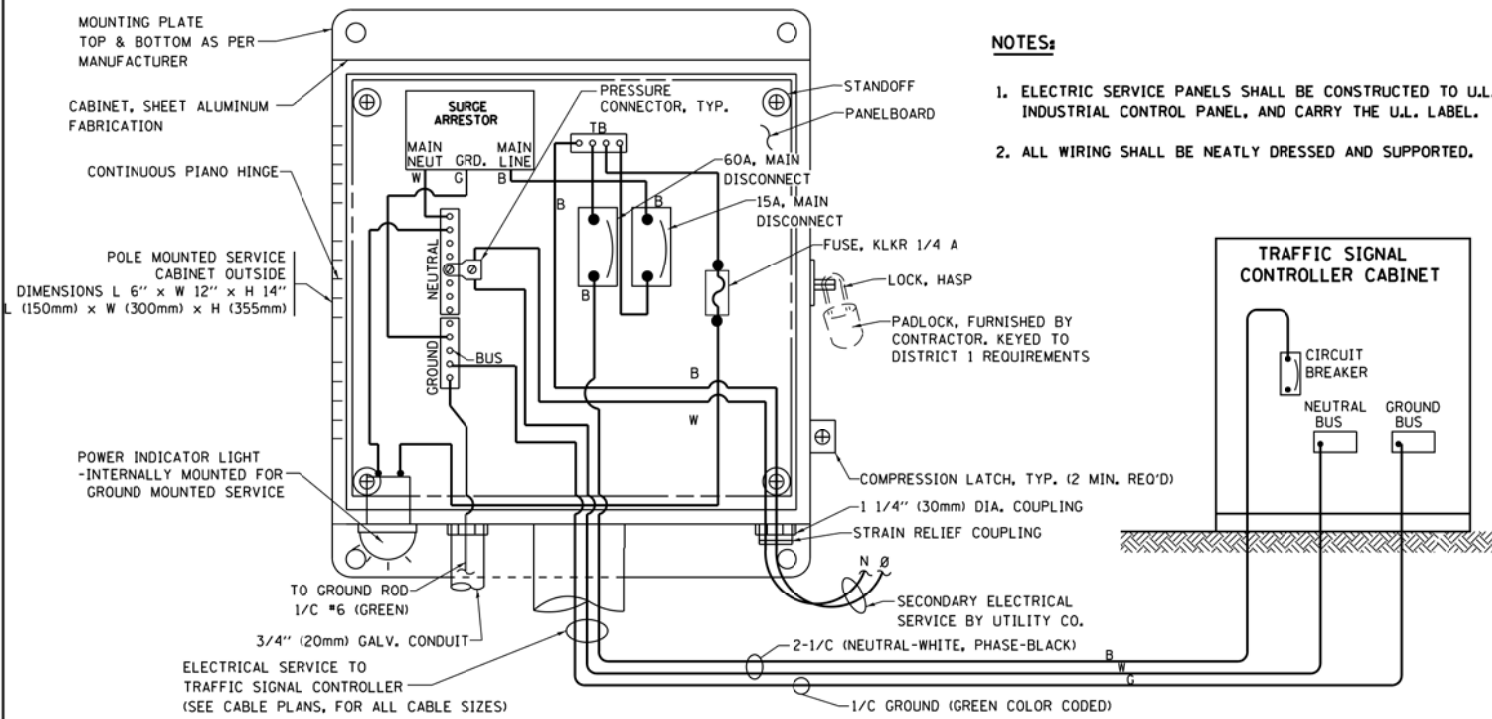
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

TRAFFIC SIGNAL EQUIPMENT OFFSET

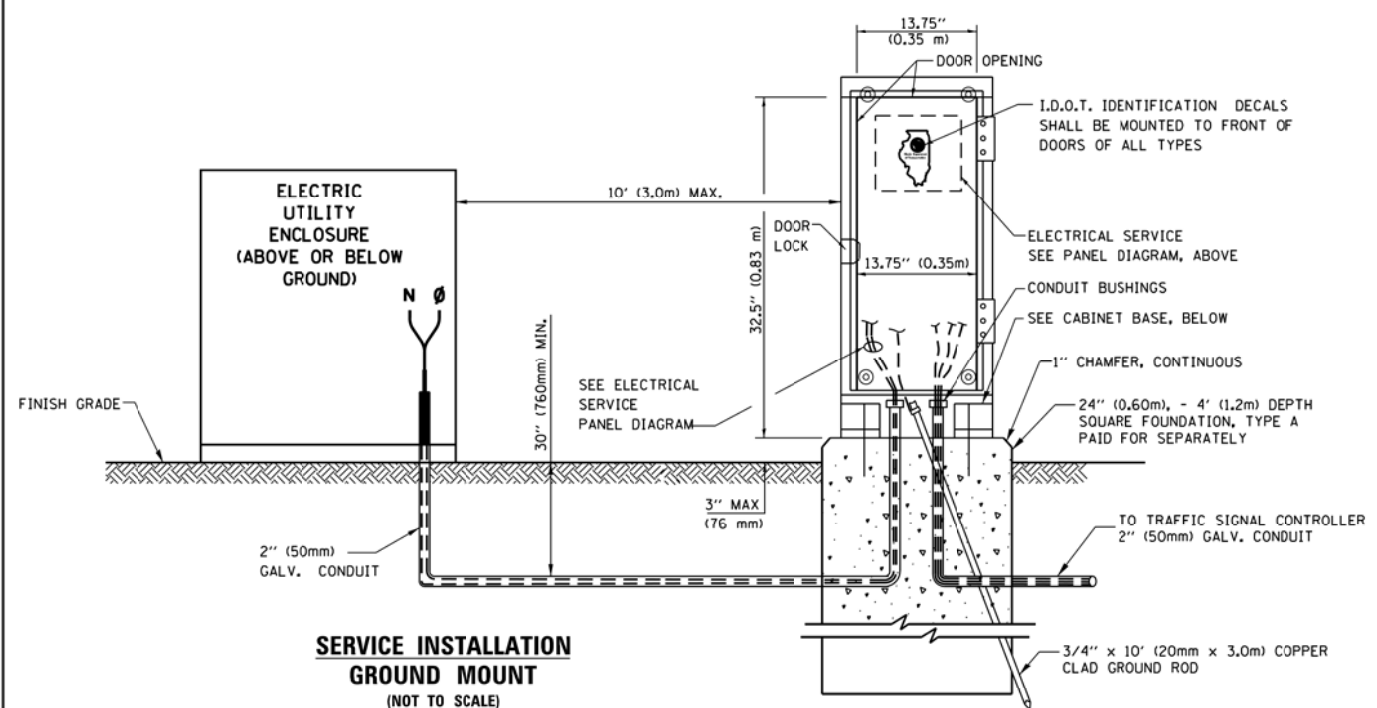
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

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

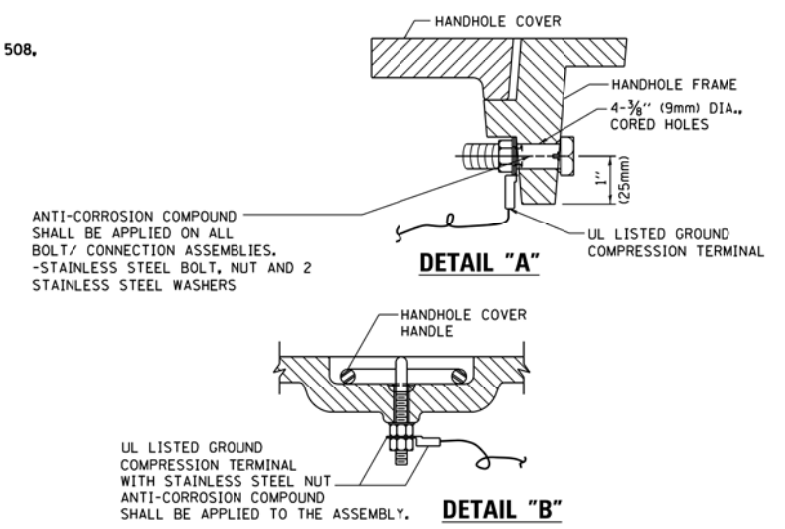
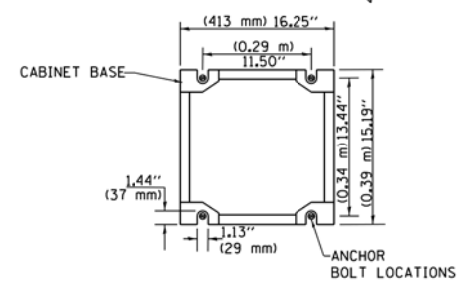


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



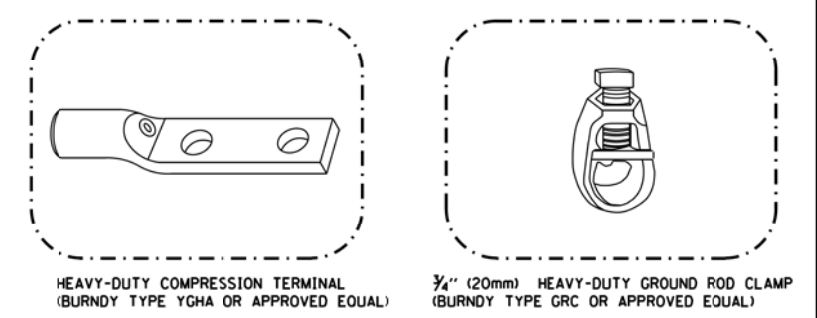
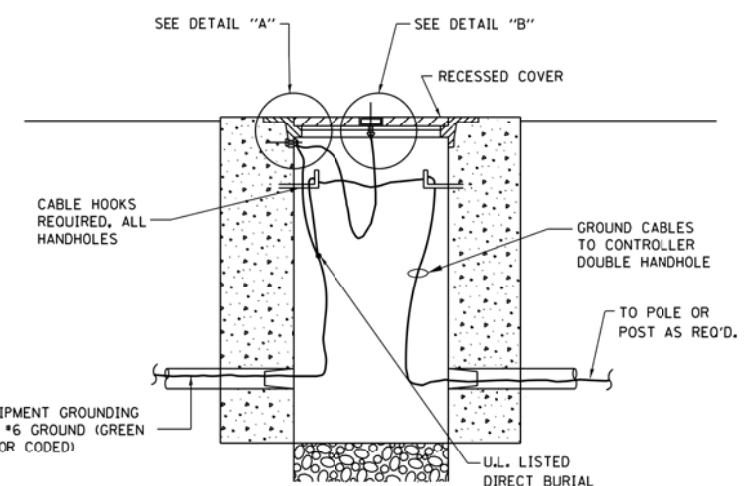
SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



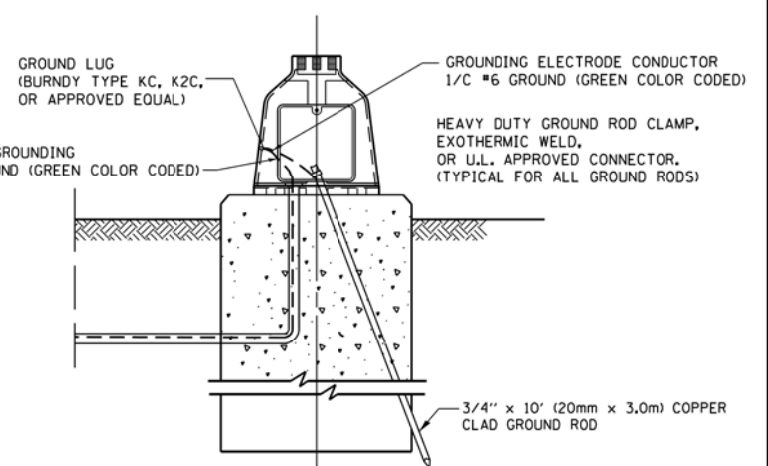
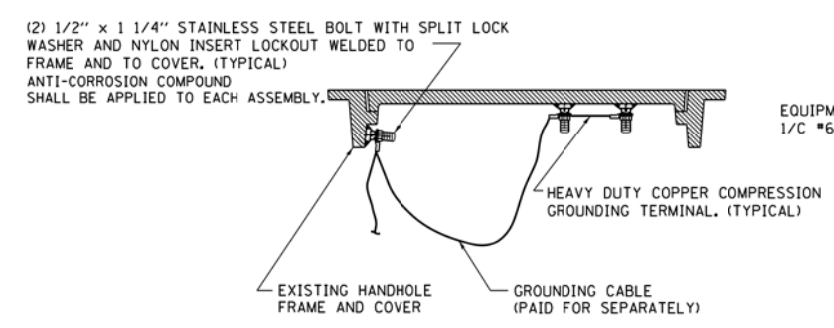
NOTES:
GROUNDING SYSTEM

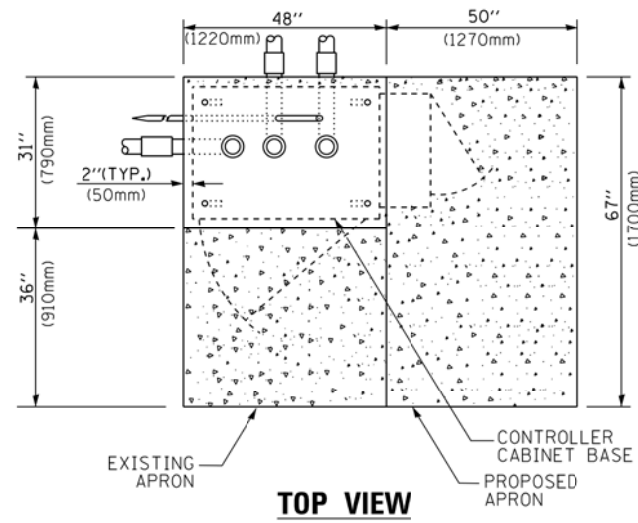
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, 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.



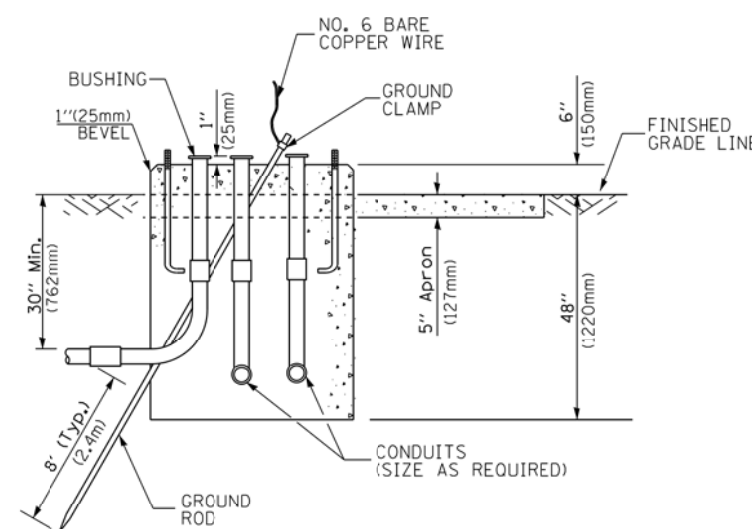
NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, U.L. 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.

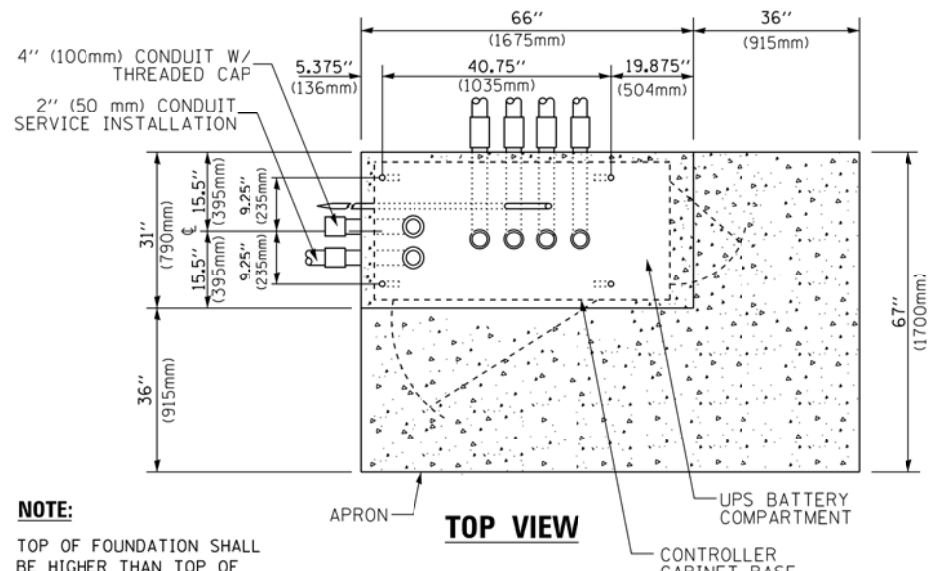




TOP VIEW

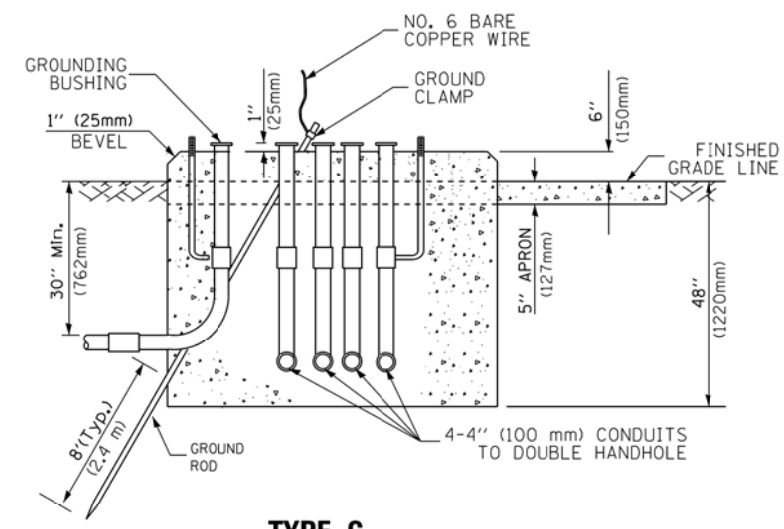


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

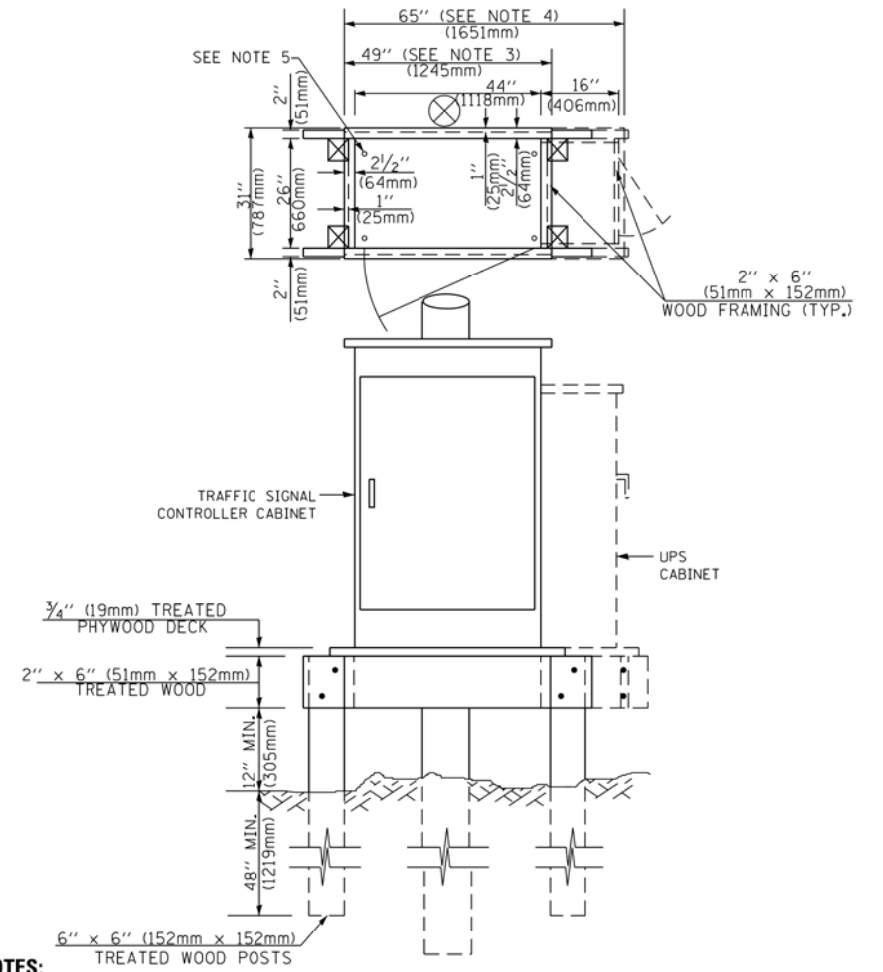


TOP VIEW

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



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

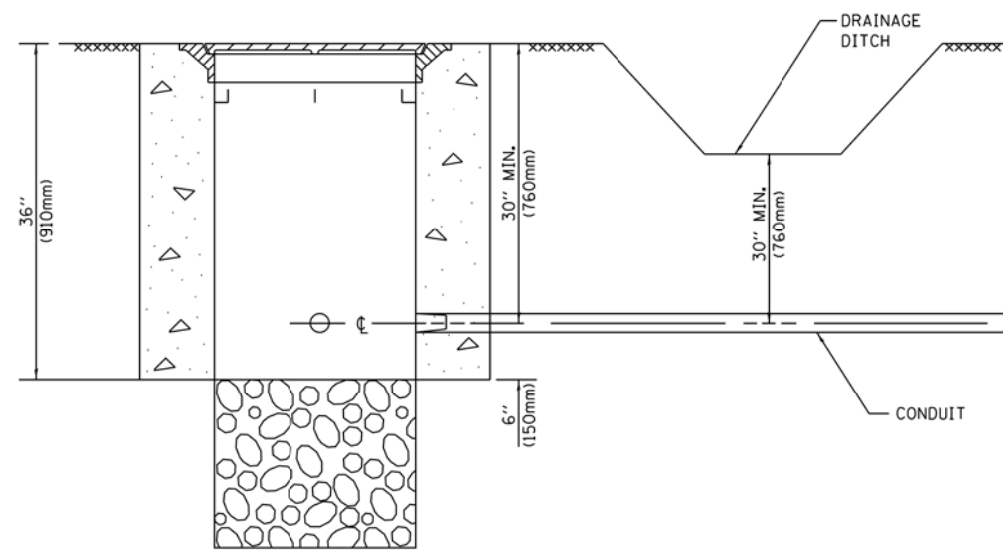
DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	24" (600mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 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..

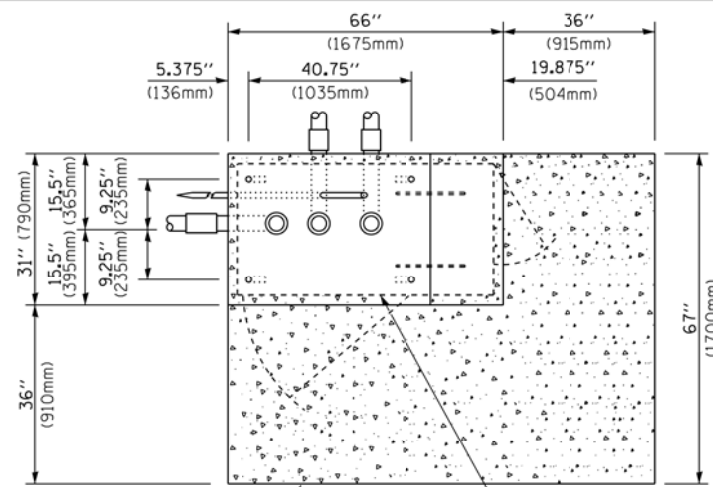
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



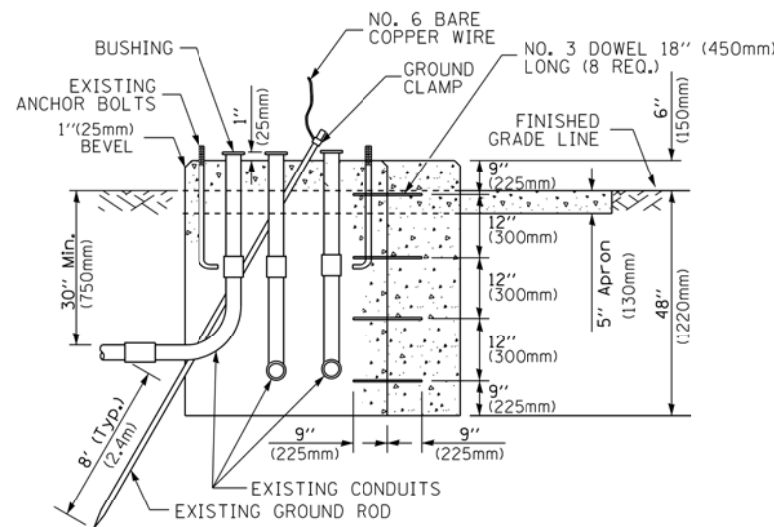
NOTES:

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)

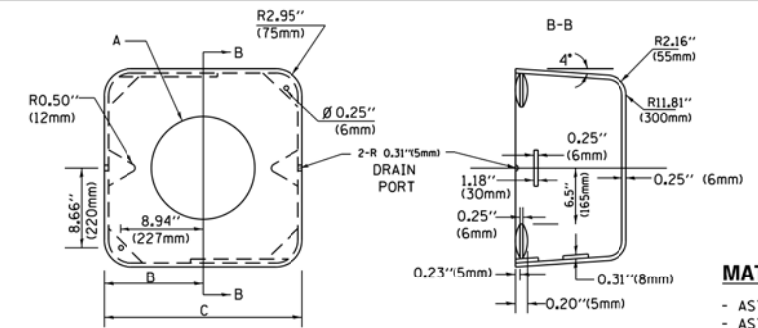


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

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



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

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

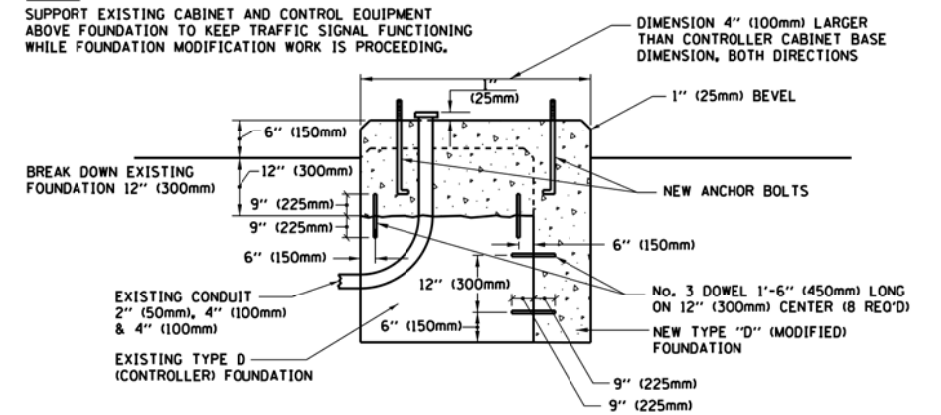
SHROUD

NOTES:

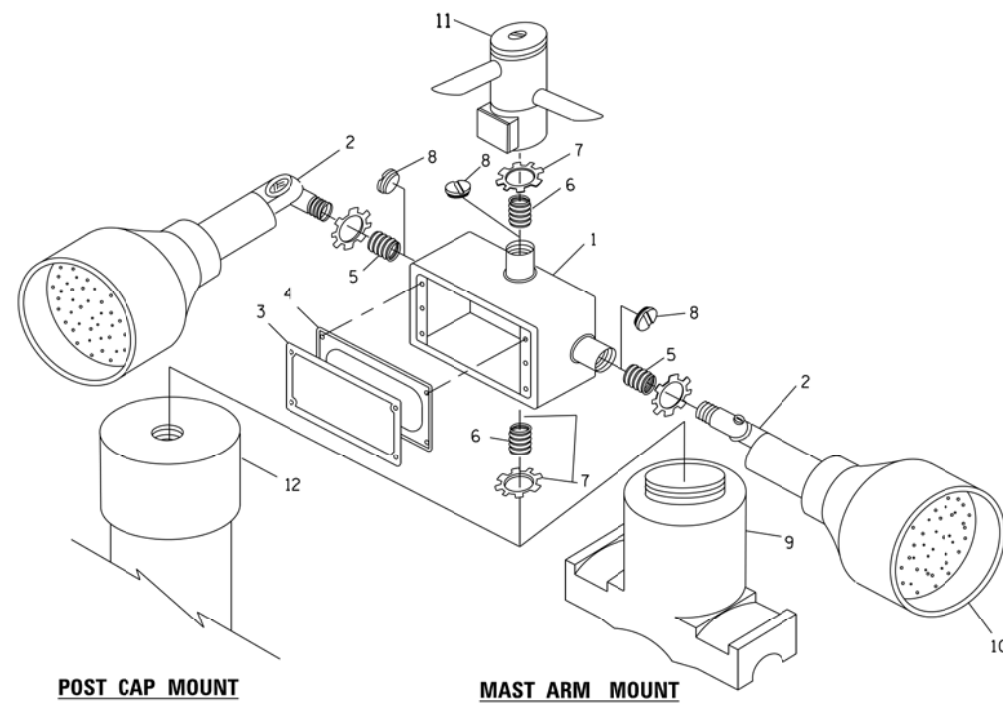
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

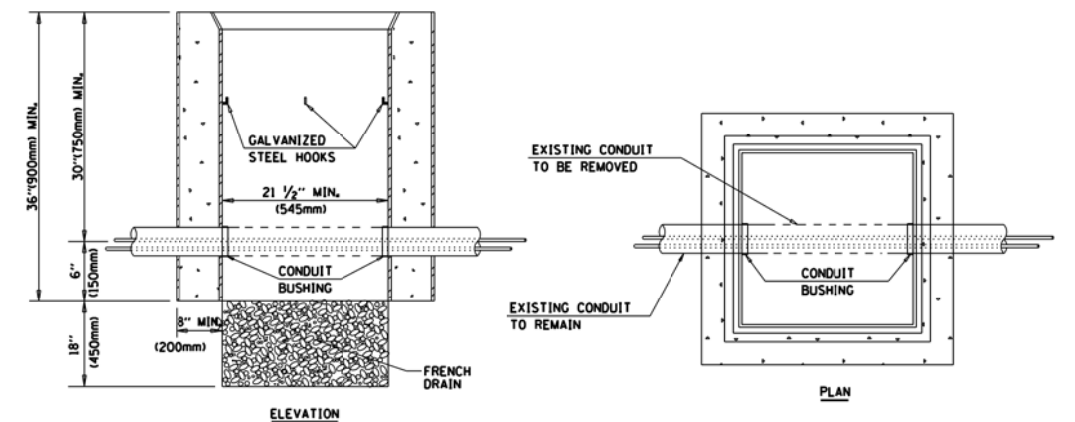
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

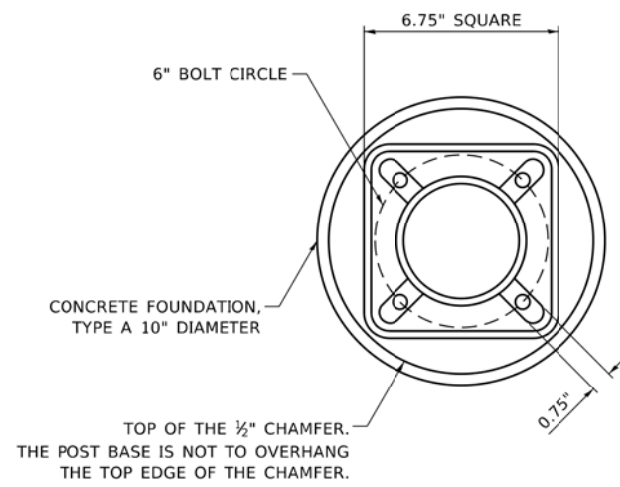
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

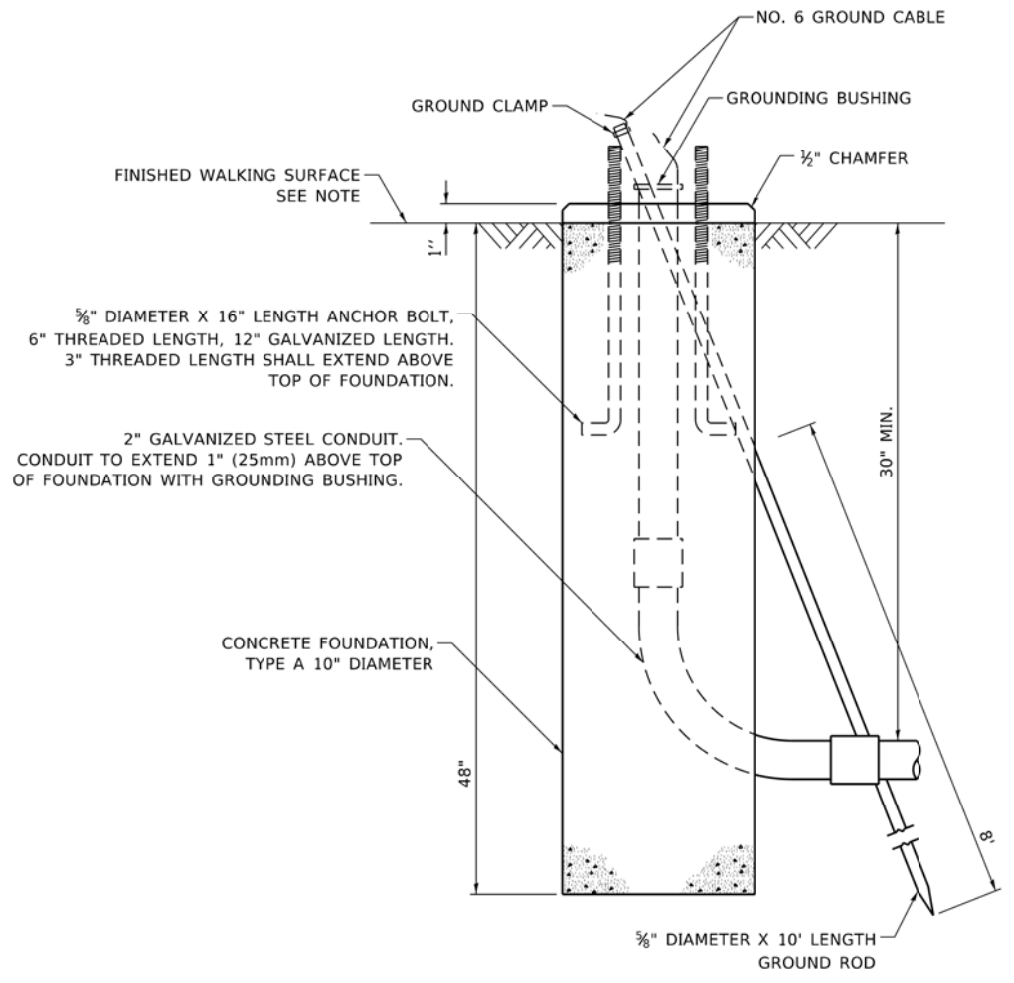
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

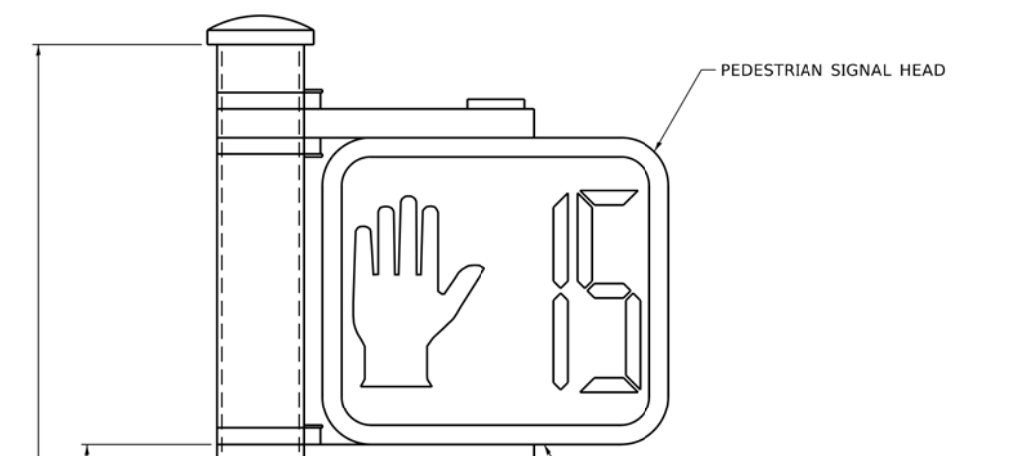


BOLT PATTERN

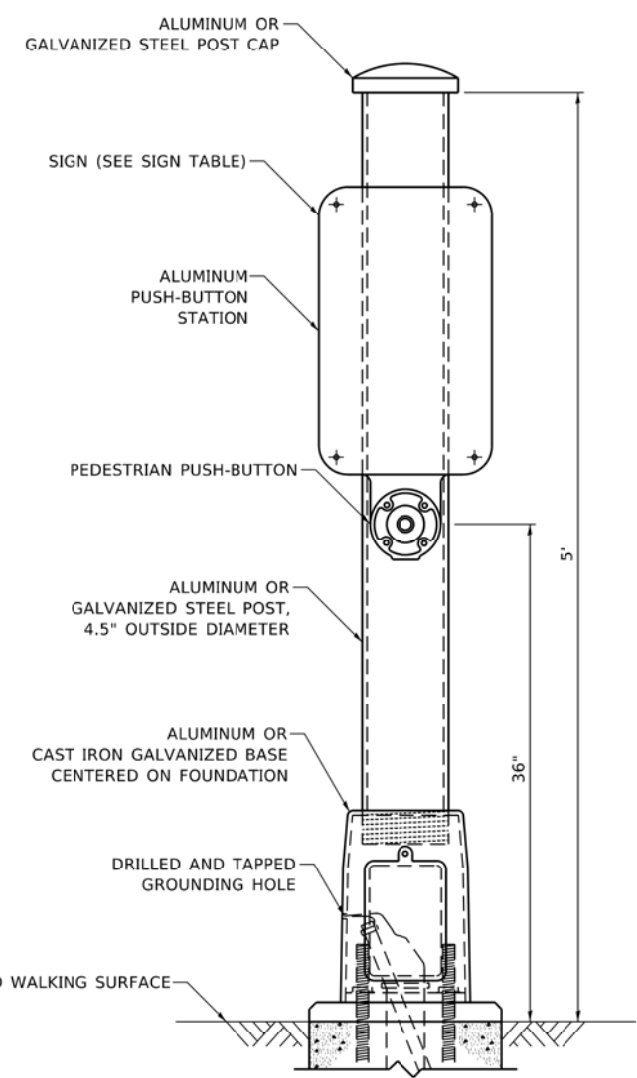
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



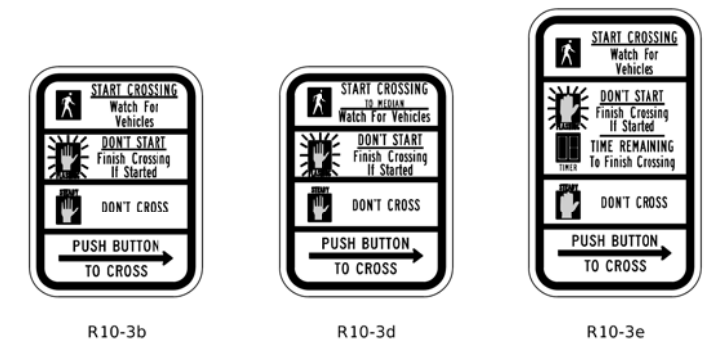
**CONCRETE FOUNDATION,
TYPE A 10-INCH DIAMETER**



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



SIGN TABLE

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

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

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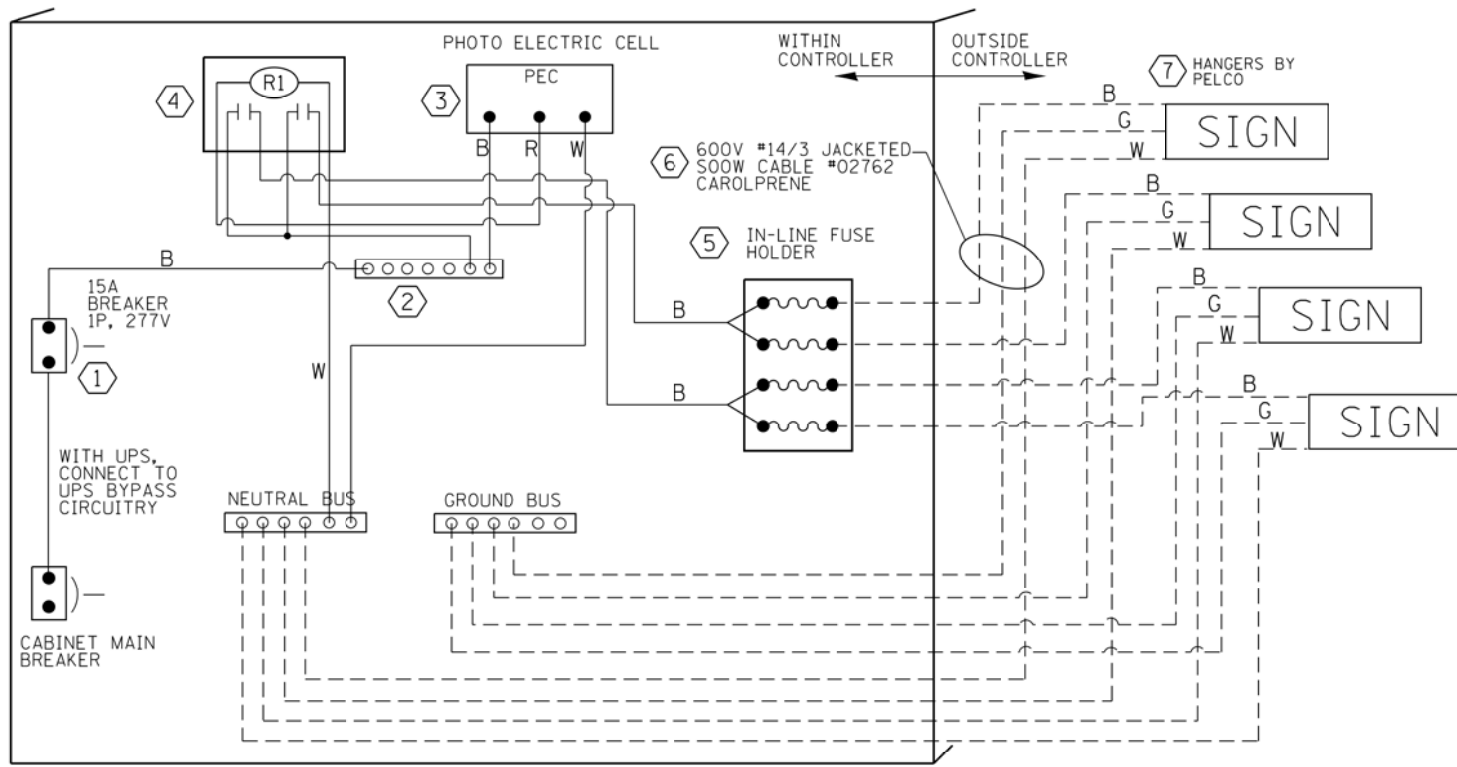
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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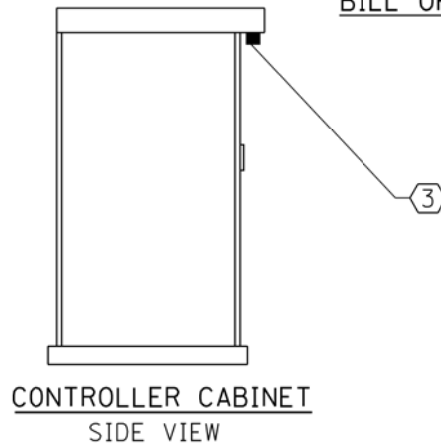
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TS-05		CONTRACT NO. 62H79		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



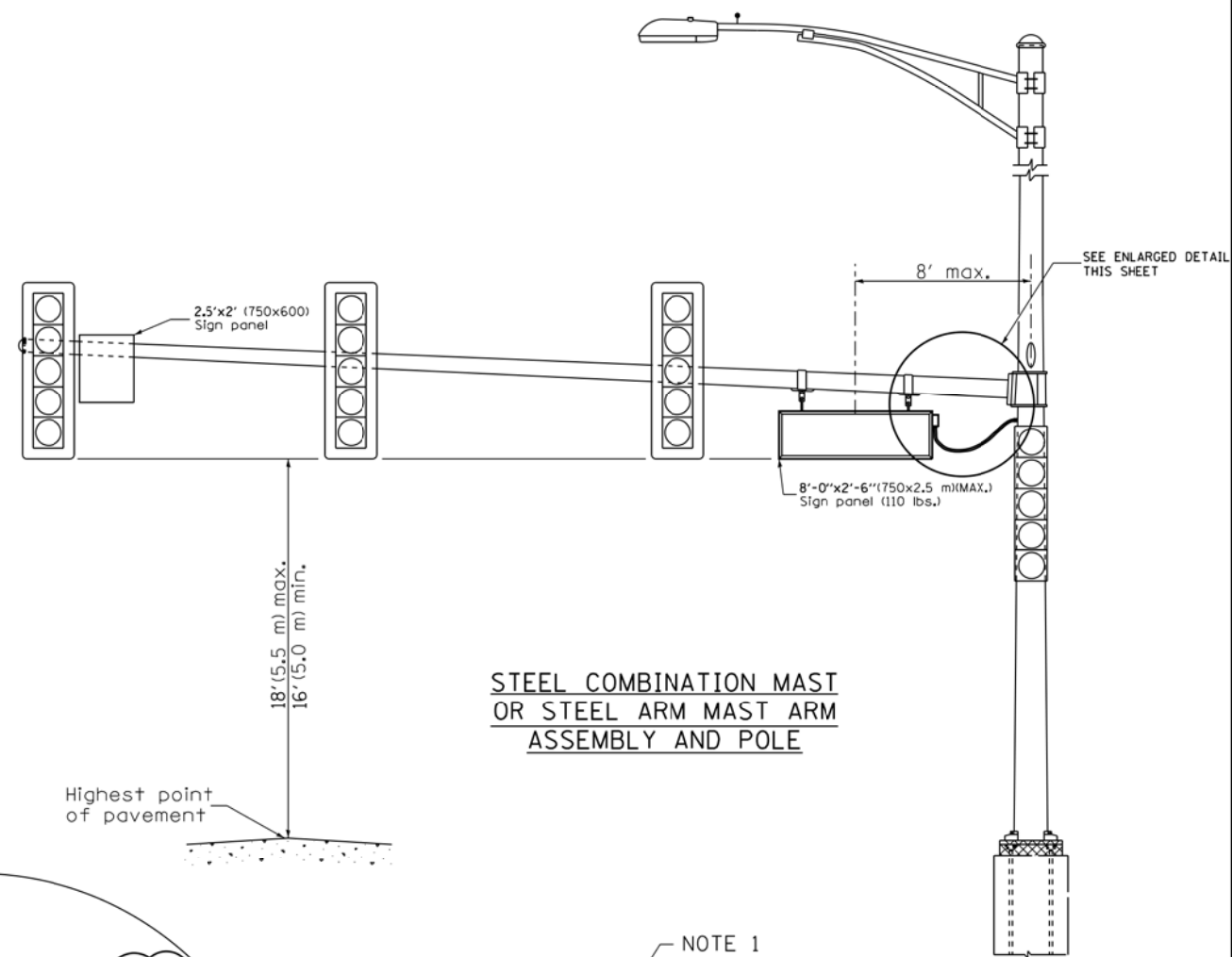
LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere of 277V.
② TERMINAL BLOCK	MARATHON	1502 DJSV	
③ PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	SE-5015	S.S. HARDWARE

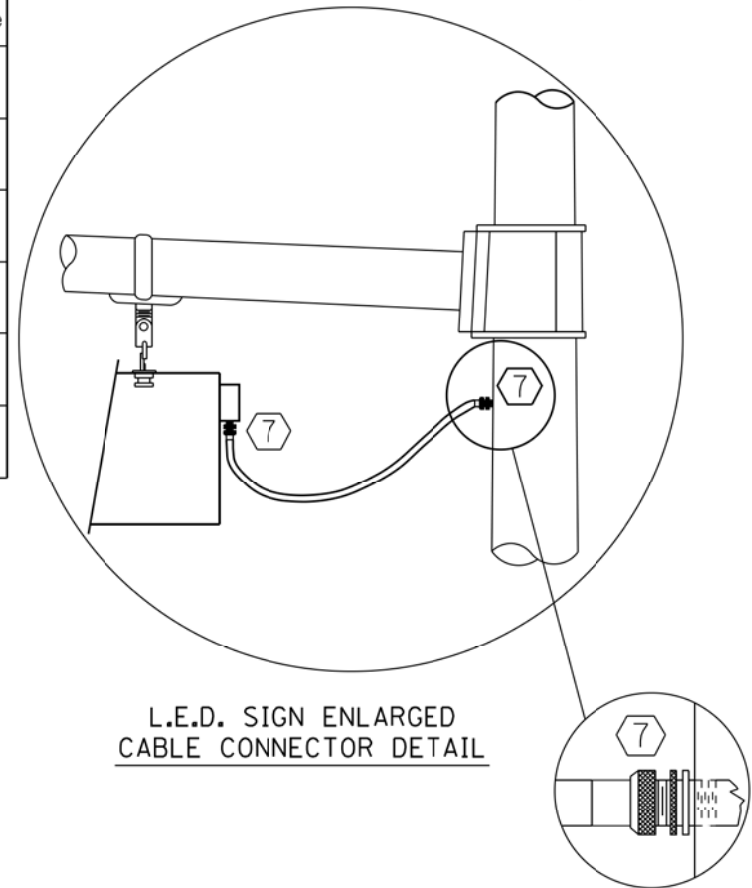
BILL OF MATERIALS



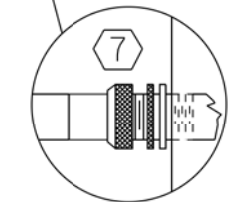
CONTROLLER CABINET SIDE VIEW



STEEL COMBINATION MAST OR STEEL ARM MAST ARM ASSEMBLY AND POLE



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



LED ILLUMINATED SIGN PANEL

8'0 x 2'6" (750 mm x 2.5 mm)(MAX)
C or D FONT

NOTES:

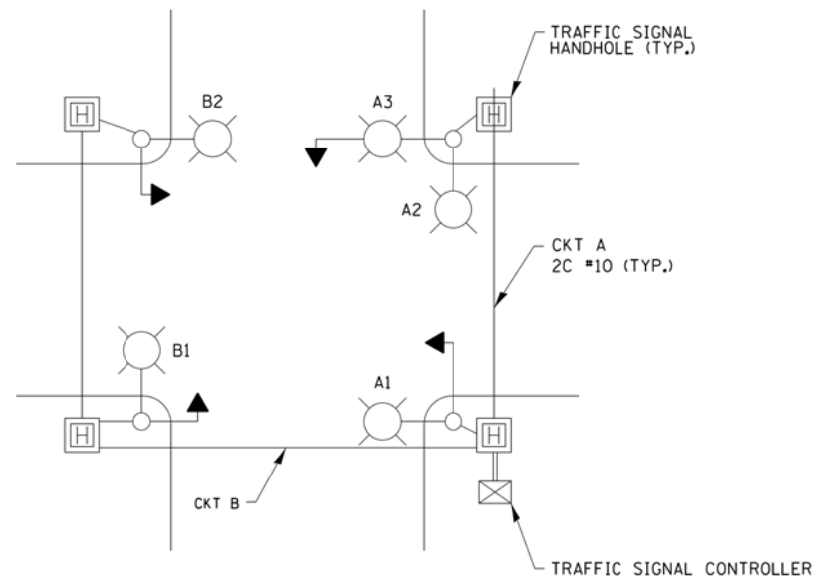
- SIGNS SHALL BE DUAL SIDED. FRONT AND BACK OF SIGN WILL BE THE SAME.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

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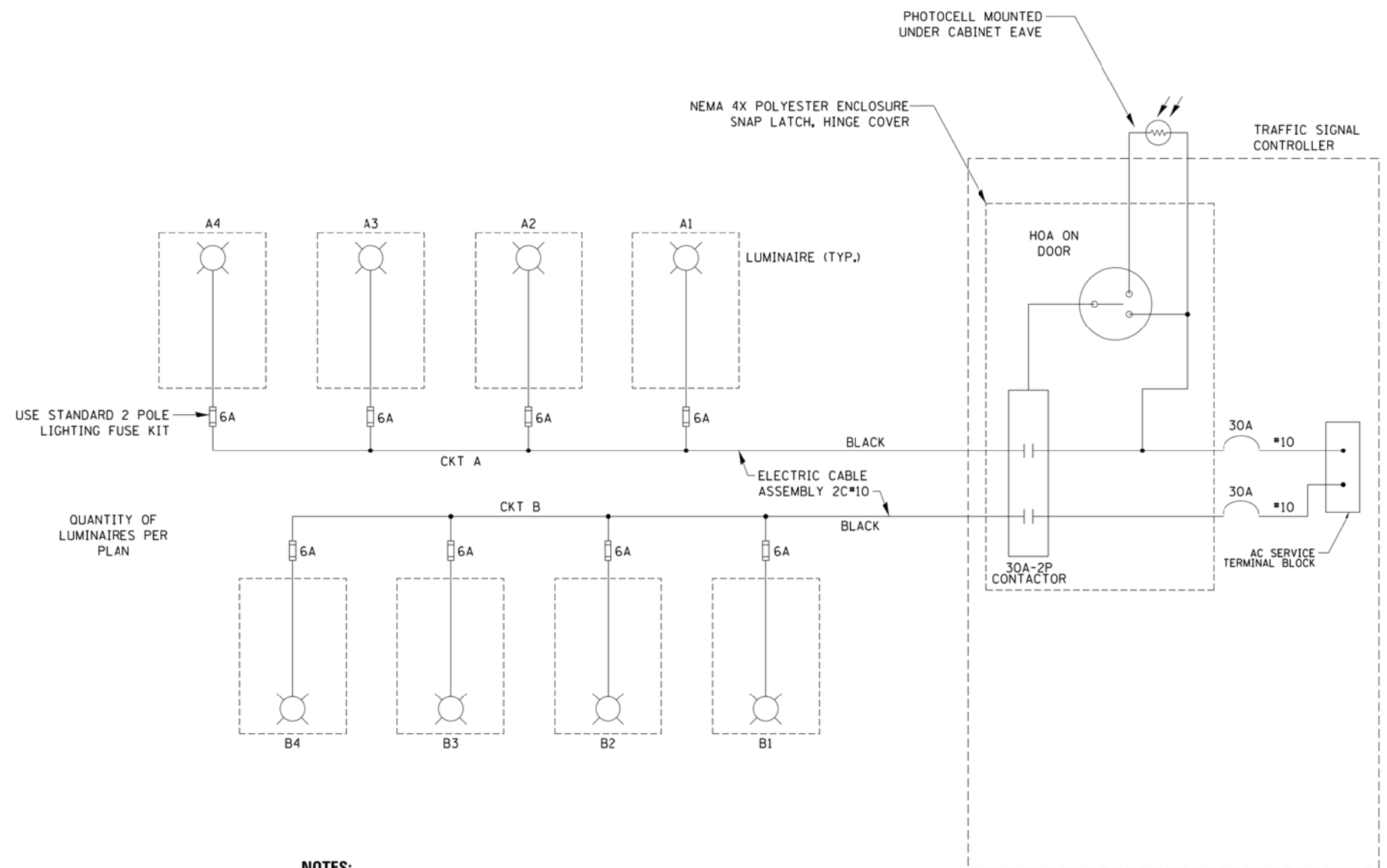
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	DATE - 04-18-2019	REVISED -

LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

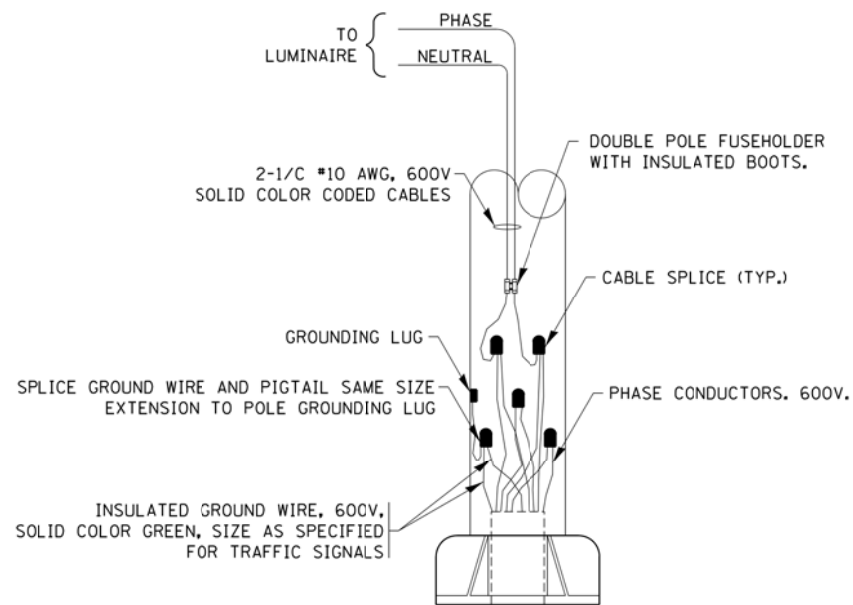
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VAR	2018-141-TS&I	WILL	90	20
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



- NOTES:**
1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
 2. MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
 3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
 4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
 5. ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
 6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
 7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
 8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
 9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
 10. LUMINAIRE VOLTAGE SHALL BE 120V



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

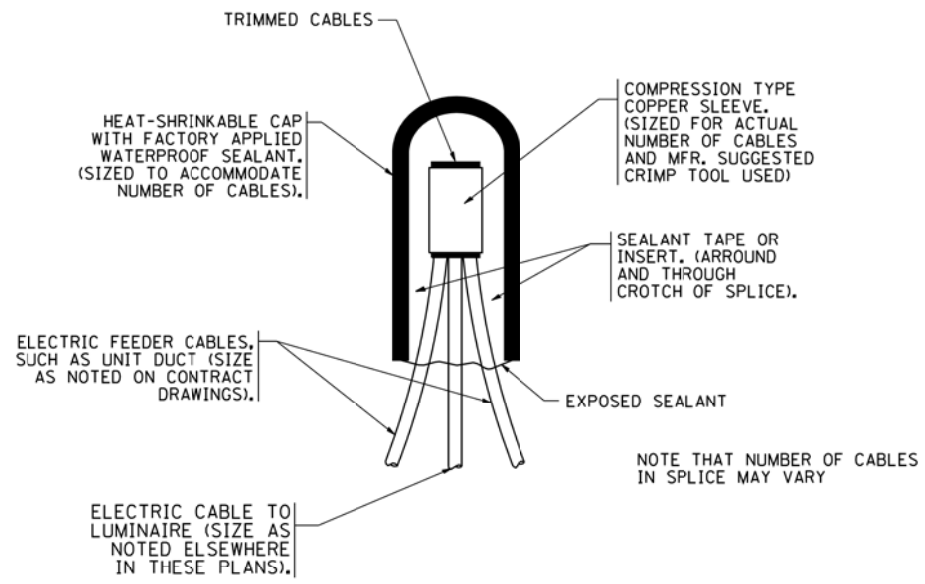
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		DATE - 08/18/2014	REVISED - R. TOMSONS 3/22/18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

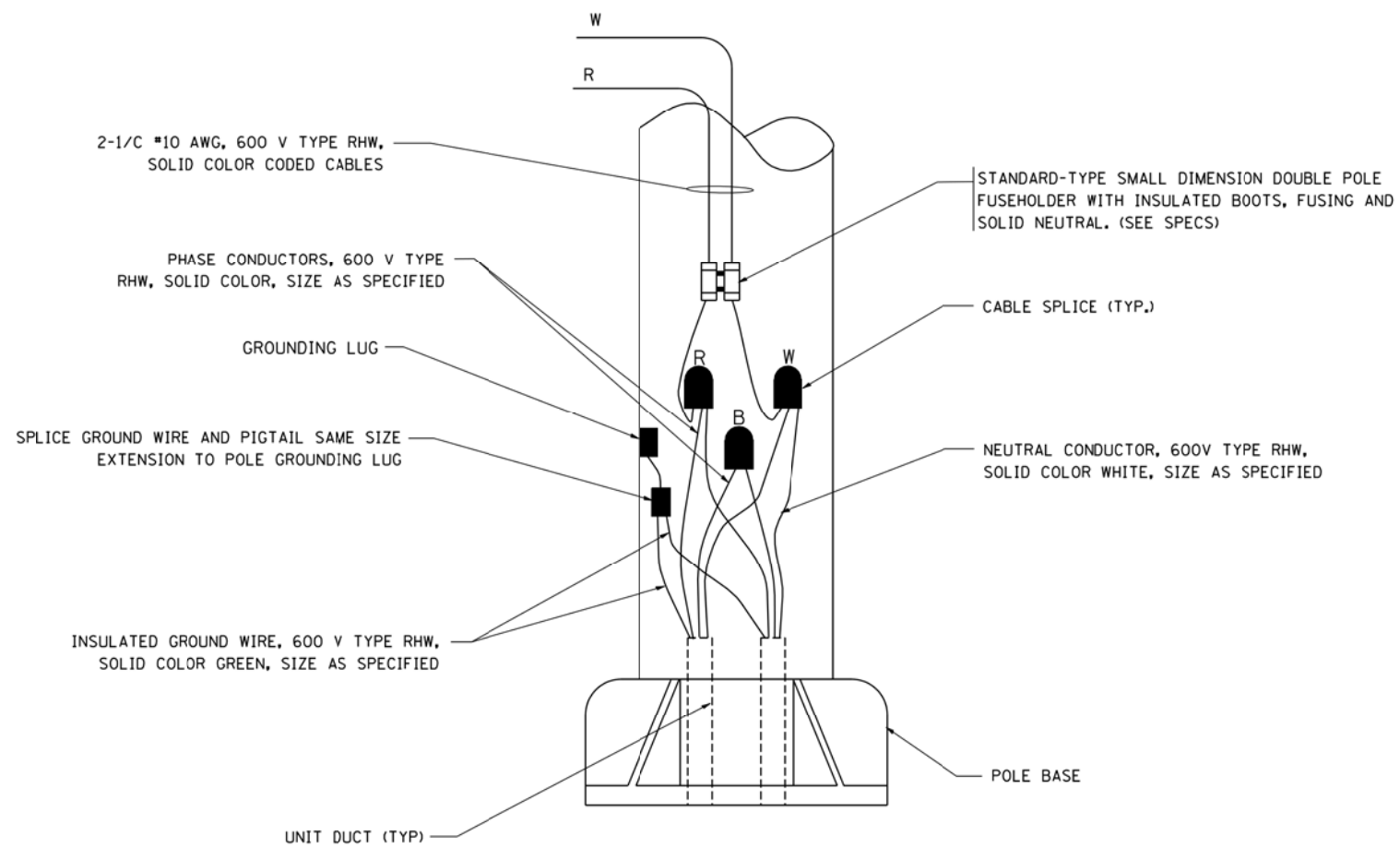
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BE-240			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



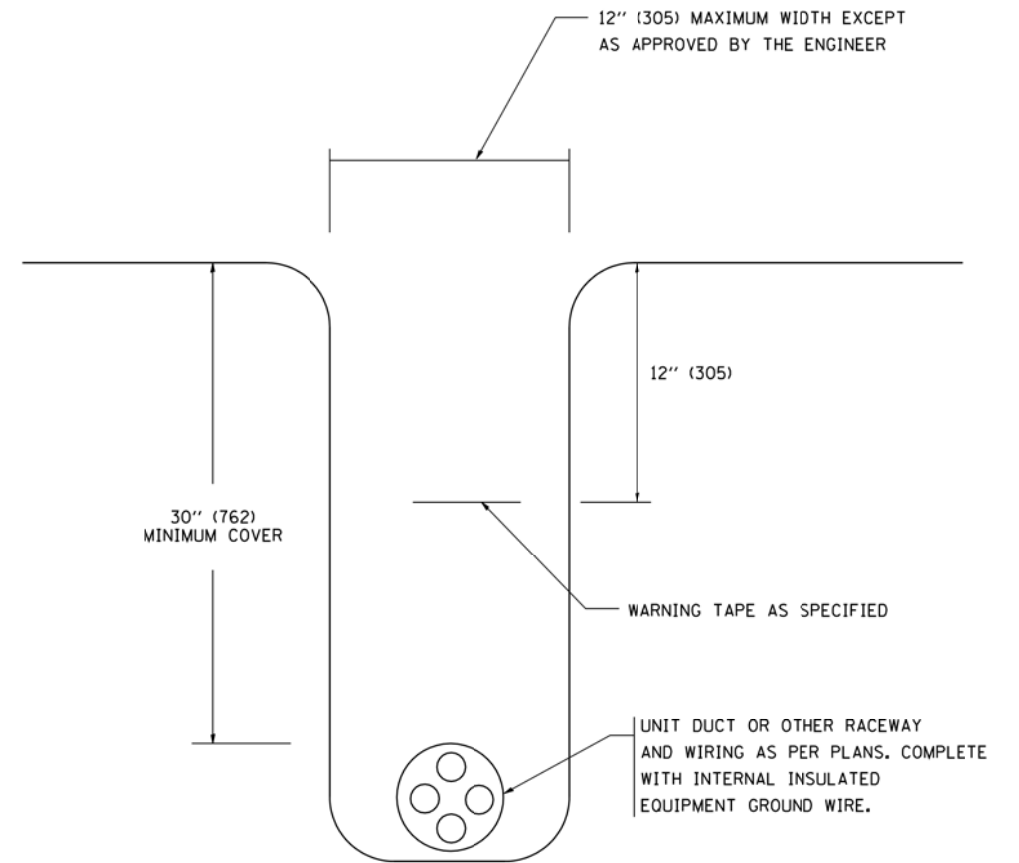
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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DESIGNED -
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 CHECKED -
 DATE -

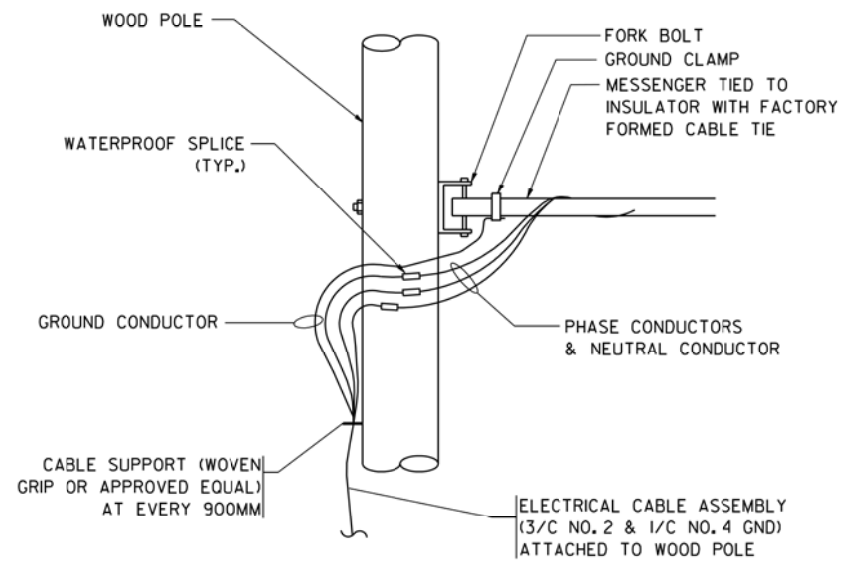
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 REVISED -
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

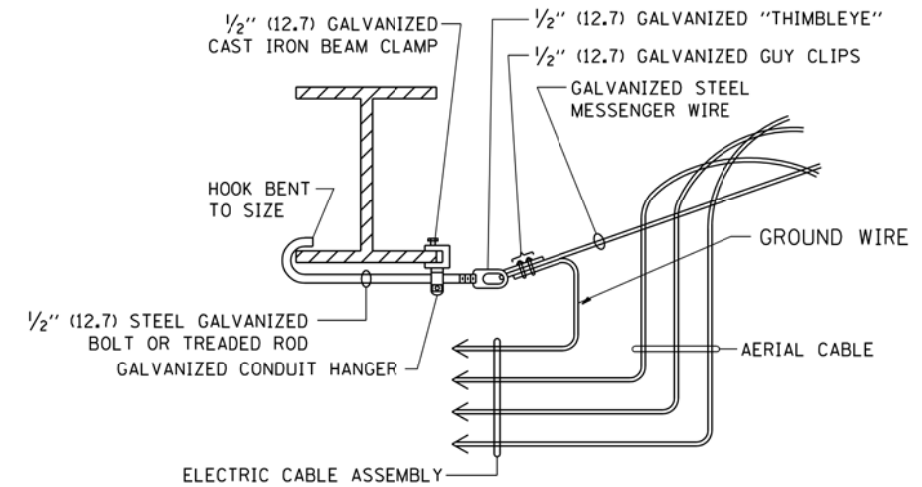
**MISC. ELECTRICAL DETAILS
 SHEET A**

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<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



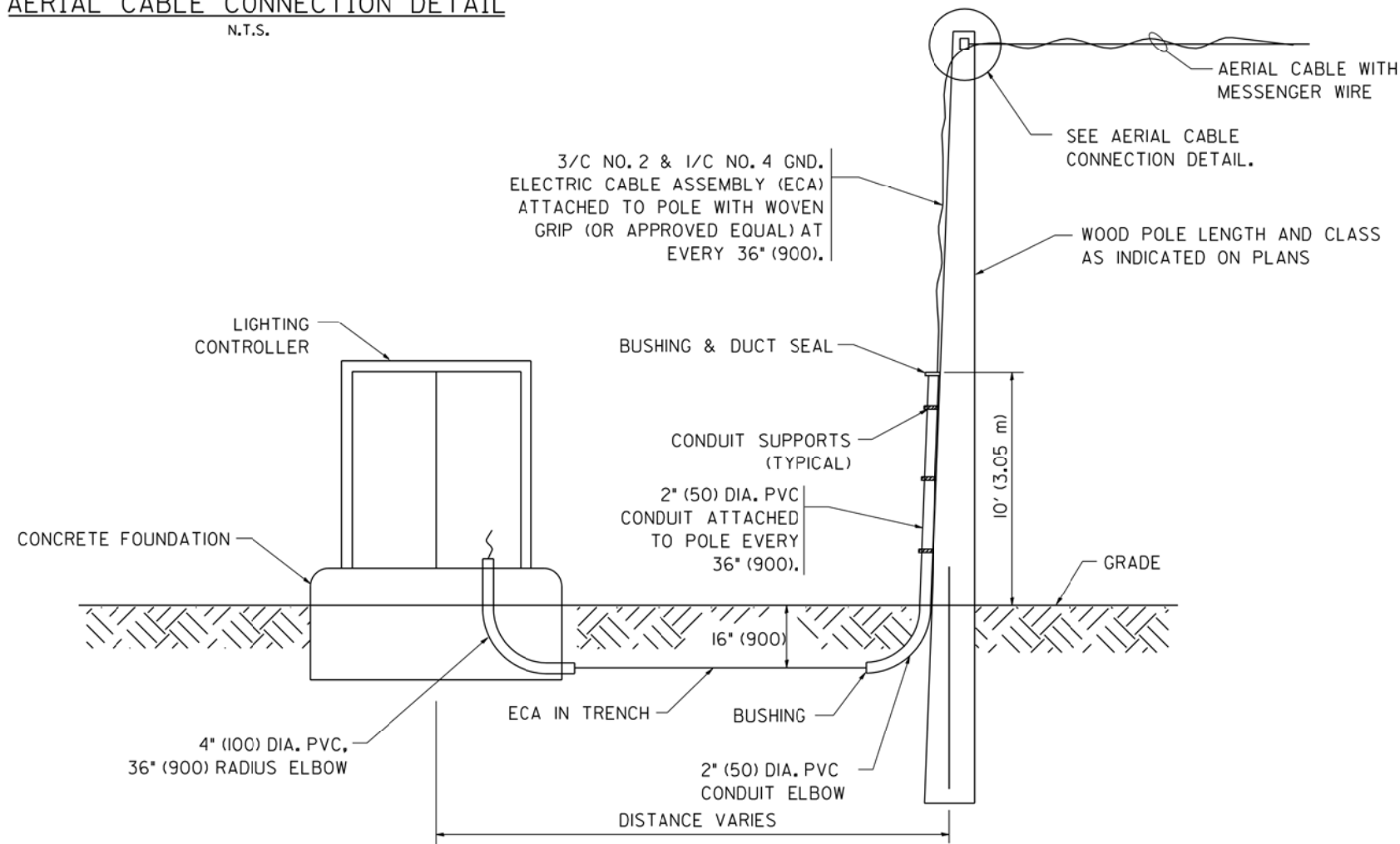
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

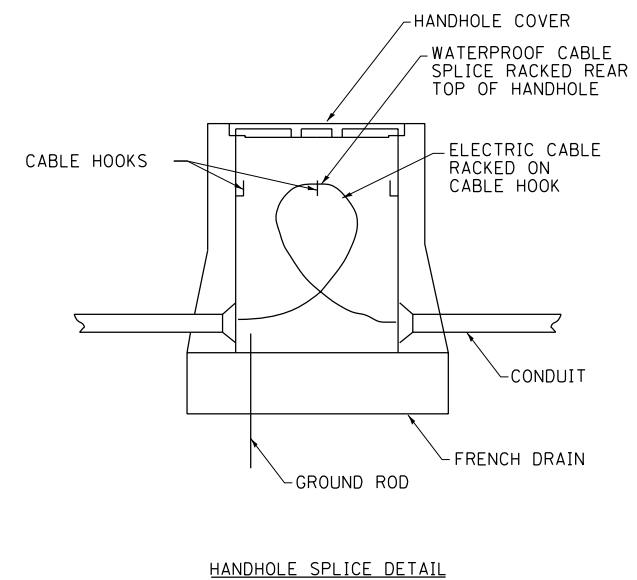
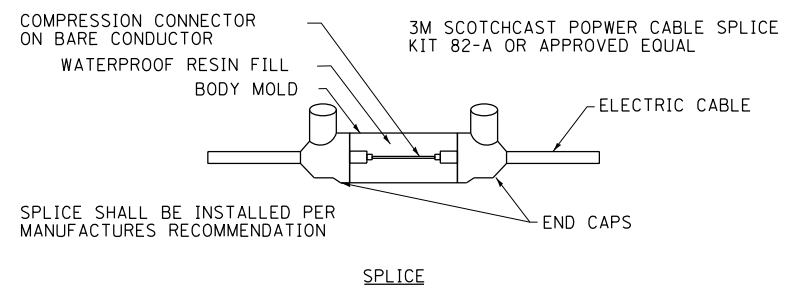
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

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GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET STREET LIGHTING
SPLICE DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	23A
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

CONSTRUCTION NOTE:

MAINTENANCE TRANSFERS OF THESE INTERSECTIONS WILL NOT BE REQUIRED BUT THERE WILL BE AN INSPECTION BETWEEN THE CONTRACTOR AND THE CITY OF JOLIET BEFORE AND AFTER THE TRAFFIC SIGNAL WORK IS COMPLETE.

RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES – SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	TOTAL	LOCATION NO -	TS
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	228	1	21825
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	39	3	21782
		4	22563
		5	7613
		6	21781
		7	22555
		8	22554
		11	22536
		12	22353
		13	22539
		14	22545
		15	22529
		16	22537
		17	7507
		18	22532
		22	22530
		25	22552
		26	22520
		27	21828
		28	22538
		29	22540
		31	21801
		32	21800
		33	7513
		34	22546
		35	22546
		36	22556
		37	22509
		38	22510
		39	22564
		40	22511
		41	22512
		42	22513
		43	22514
		44	22515
		45	22516
		46	22517
		47	22518
		48	22519

REMOVAL AND RELOCATION NOTES:

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

228 EACH TRAFFIC SIGNAL BACKPLATE

K:\PROJECTS\Projects 2018\DOT Joliet_Roads\CADD_Sheets\01-7-1-Traffic Signal Backplates_S00.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE*		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	24
FED. ROAD DIST. NO. - ILLINOIS			CONTRACT NO. 62H79	
FED. AID PROJECT				

REMOVAL AND RELOCATION NOTES:

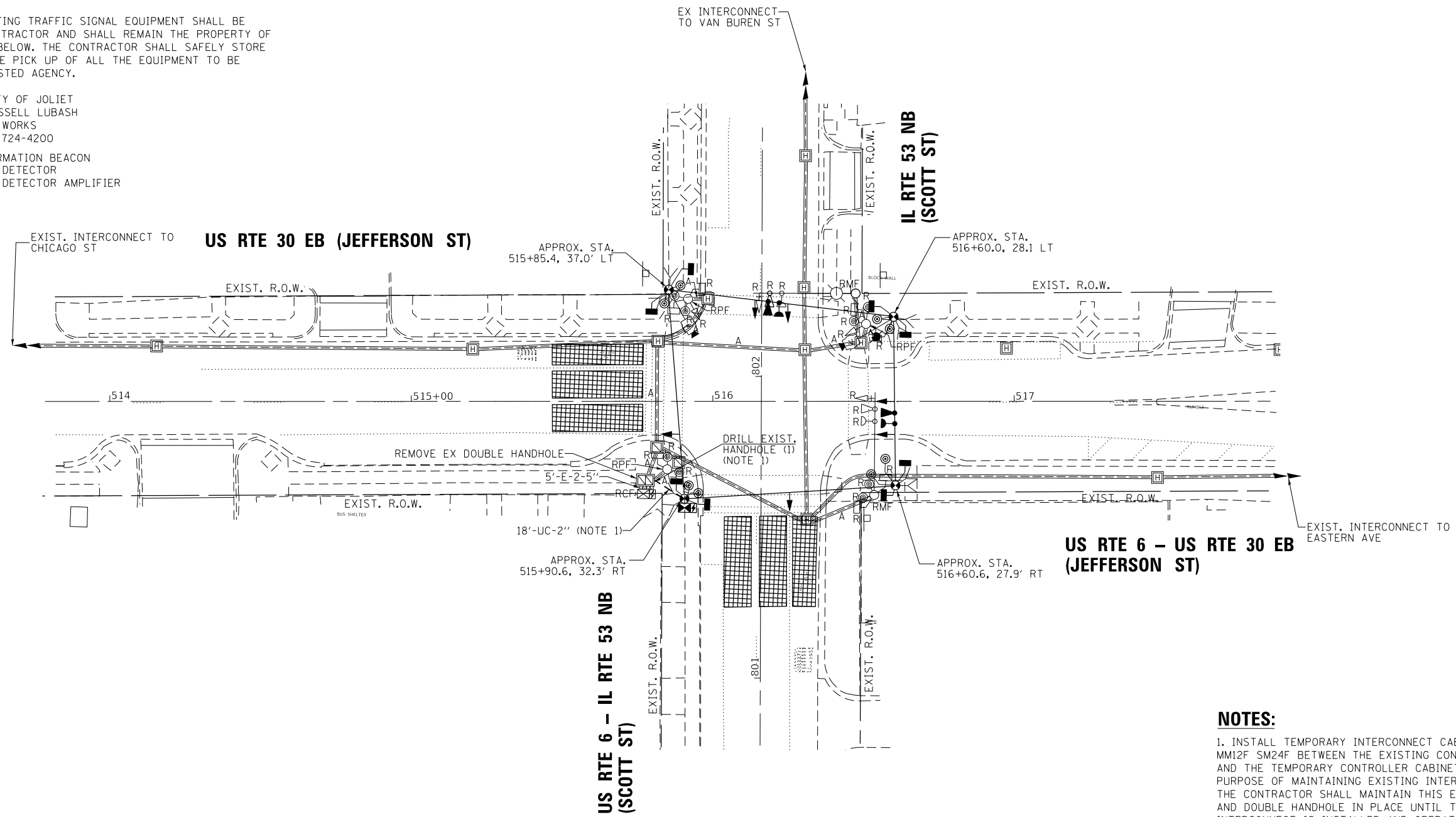
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH BUTTON
- 1 EACH SERVICE INSTALLATION
- 2 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

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



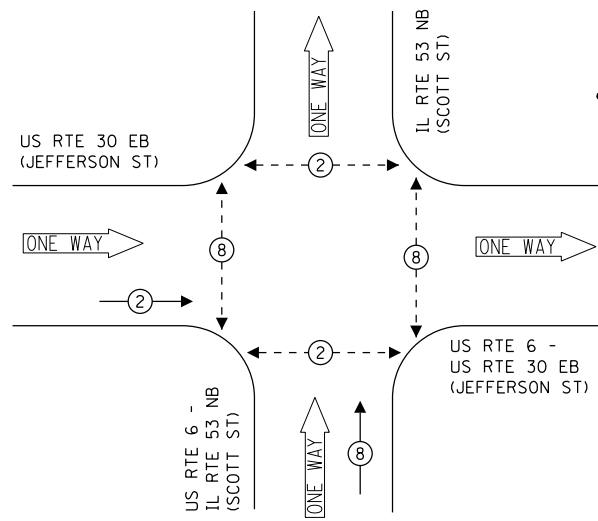
NOTES:

1. INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 MM12F SM24F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET, FOR THE PURPOSE OF MAINTAINING EXISTING INTERCONNECT SYSTEM. THE CONTRACTOR SHALL MAINTAIN THIS EXISTING CABINET AND DOUBLE HANDHOLE IN PLACE UNTIL THE PROPOSED INTERCONNECT IS INSTALLED AND OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

K:\PROJECTS\Projects 2018\DDOT Joliet_Roads\Roads\CADD_Sheets\02 TS_22531_01_Jefferson St_Scott St_TEMP_INT.dgn

	USER NAME = \$USER\$ DESIGNED - EA DRAWN - EA, AV PLOT SCALE = 40.0000' / in. PLOT DATE = \$DATE\$	CHECKED - PKG DATE - 2/6/2020	REVISED - 3/9/2020 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 NB (SCOTT ST)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						VAR	2018-141-TS&I	WILL	90	25
						CONTRACT NO. 62H79				
						FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT				

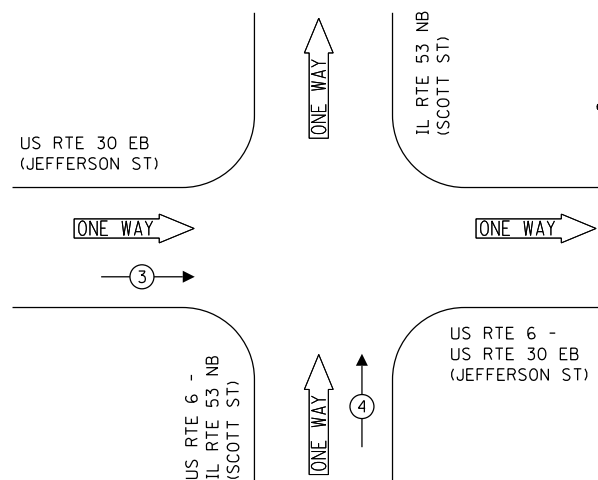
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



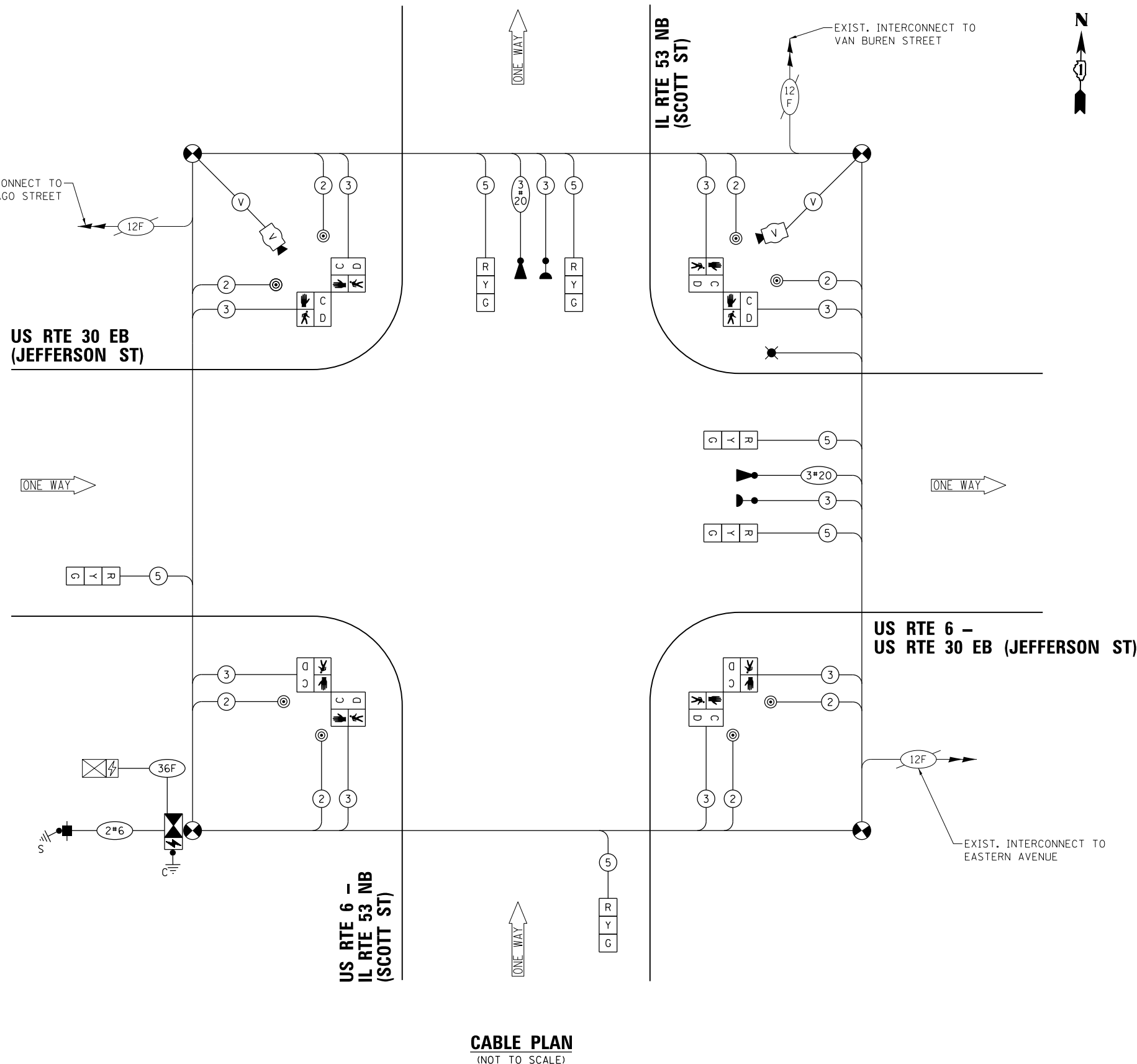
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
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
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	1	280	50	140.0
TOTAL =				646.4

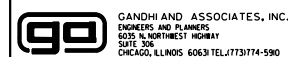
ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

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



FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\SCOD_Sheets\02 TS_22531_02_Jefferson St-TEMP_CD.dgn



USER NAME = \$USER\$
DESIGNED - EA
DRAWN - EA, AV
CHECKED - PKG
DATE - 2/6/2020

REVISED - 3/9/2020
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

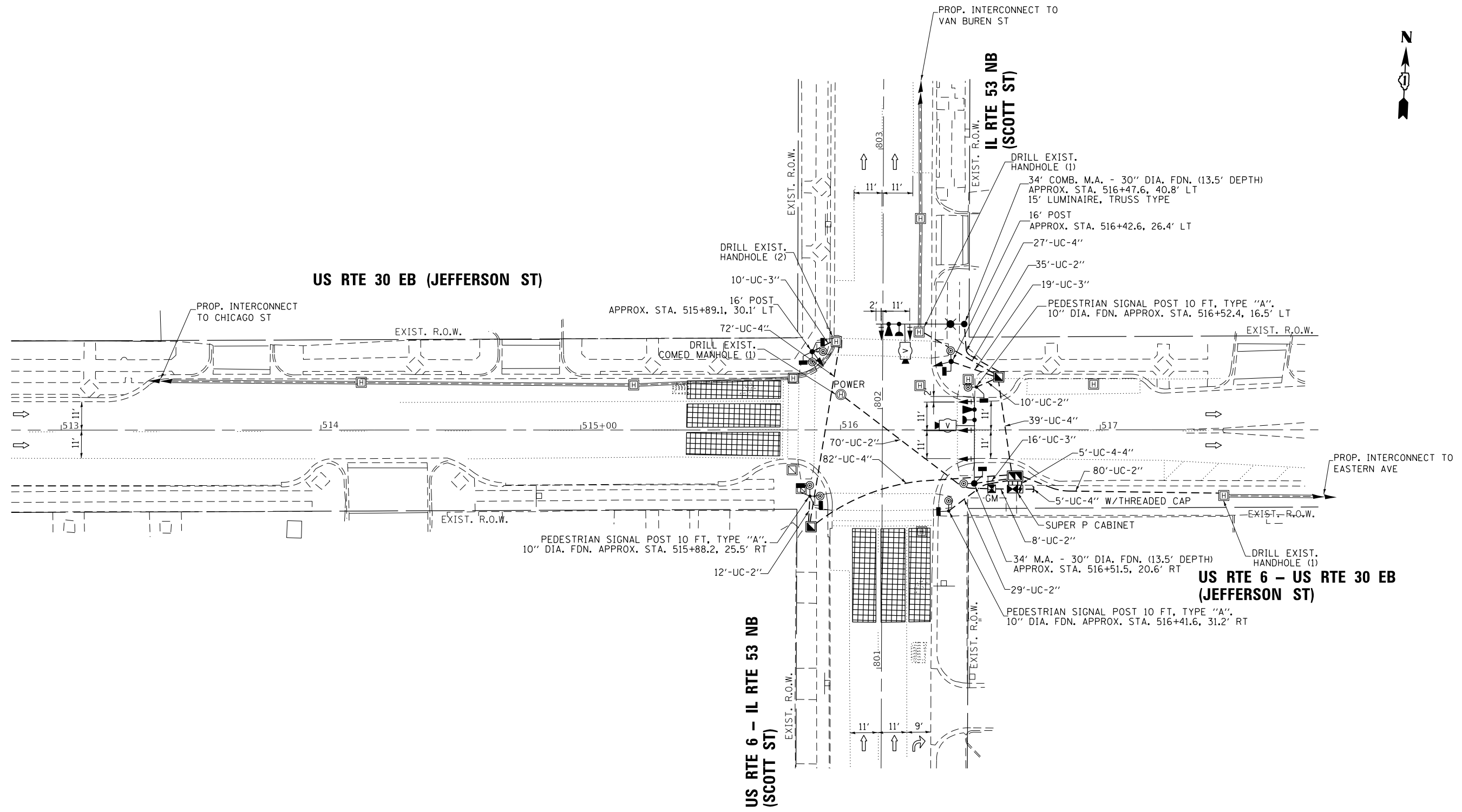
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE US RTE 6 -
US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 NB (SCOTT ST)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	26

CONTRACT NO. 62H79
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

TS 22531
ECON 121
LOCATION NO. 2



FILE NAME = K:\PROJECTS\Projects\2018\DDOT\Joliet_Roads\CADD\Sheets\02 TS_22531_03_Jefferson St_Scott St_INT.dgn



GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 300
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0001' / 1"	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

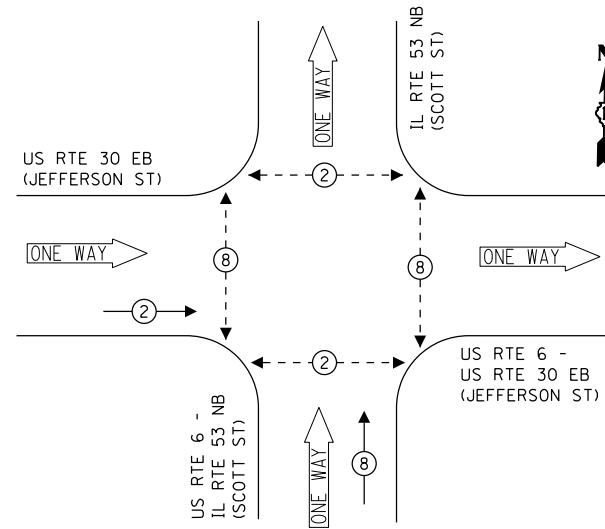
TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT
US RTE 6 - IL RTE 53 NB (SCOTT ST)

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

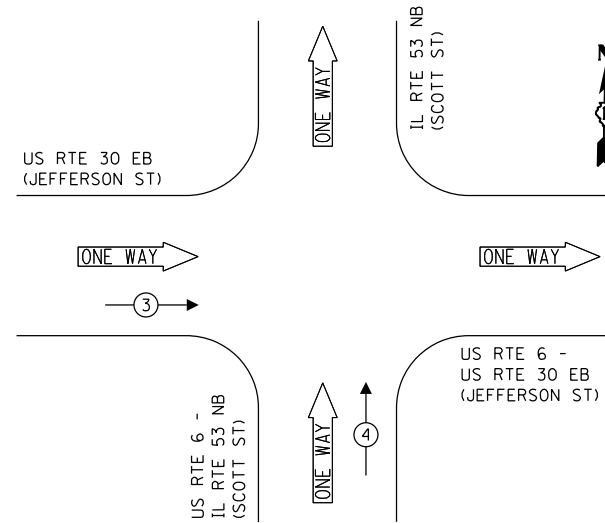
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	27
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

TS 22531
ECON 121
LOCATION NO. 2

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

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:

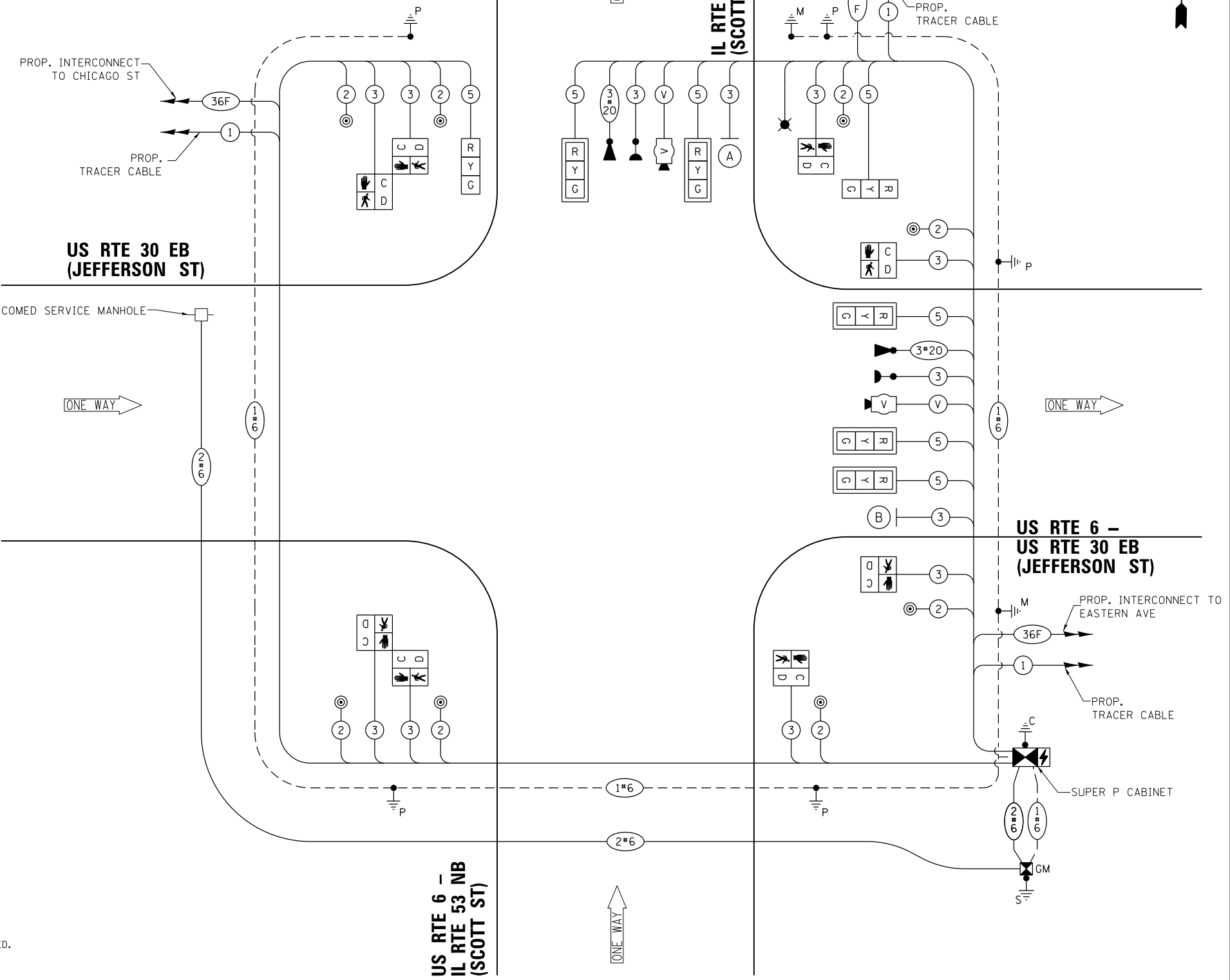
CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

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

(A)
Jefferson St
City of Joliet
ILLUMINATED SIGN (REQUIRED)

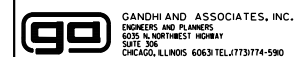
(B)
Scott St
City of Joliet
ILLUMINATED SIGN (REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet Road\SCOD_Sheets\02 TS_22531_04_Jefferson St_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 NB (SCOTT ST)

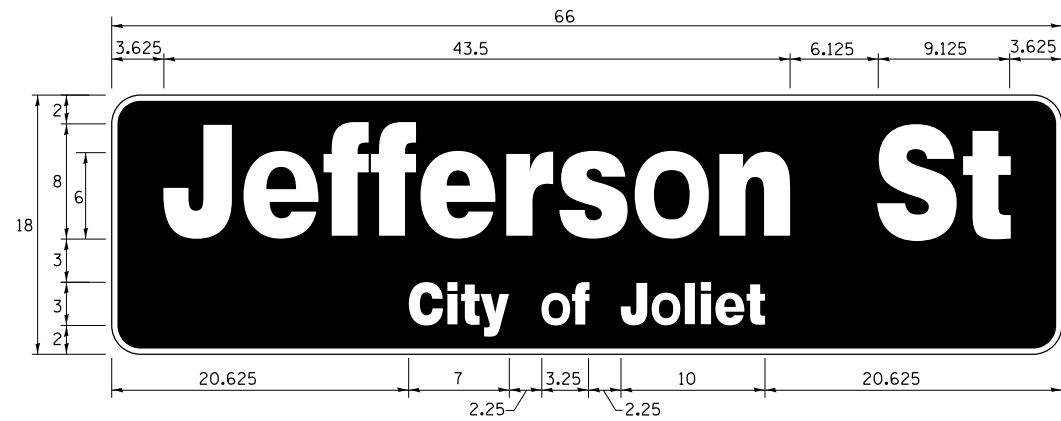
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	28
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 22531
ECON 121
LOCATION NO. 2**

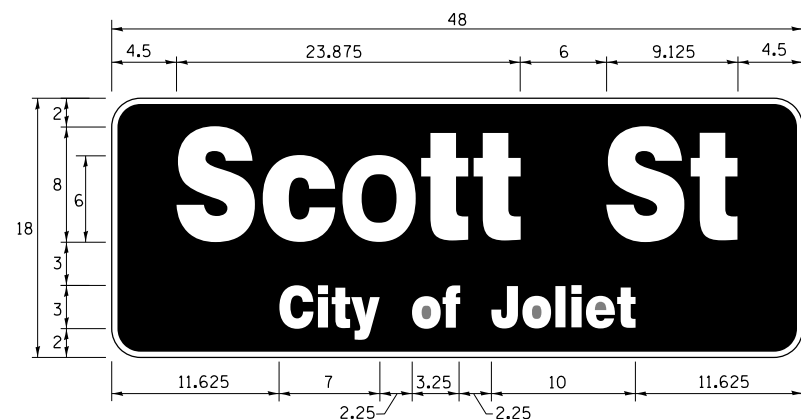
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.0	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	1.5
** DRILLED SHAFT IN ROCK	CU YD	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	244
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	45
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	245
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	970
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1250
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	870
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	120
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	540
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	5
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	237
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
* FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	135
PEDESTRIAN SIGNAL POST, 10 FT	EACH	3
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	12
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	193

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR TEMPORARY WOOD POLES, CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

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USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**MAST ARM MOUNTED LED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES US RTE 6 -
US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 NB (SCOTT ST)**
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	29
CONTRACT NO. 62H79			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

TS 22531
ECON 121
LOCATION NO. 2

REMOVAL AND RELOCATION NOTES:

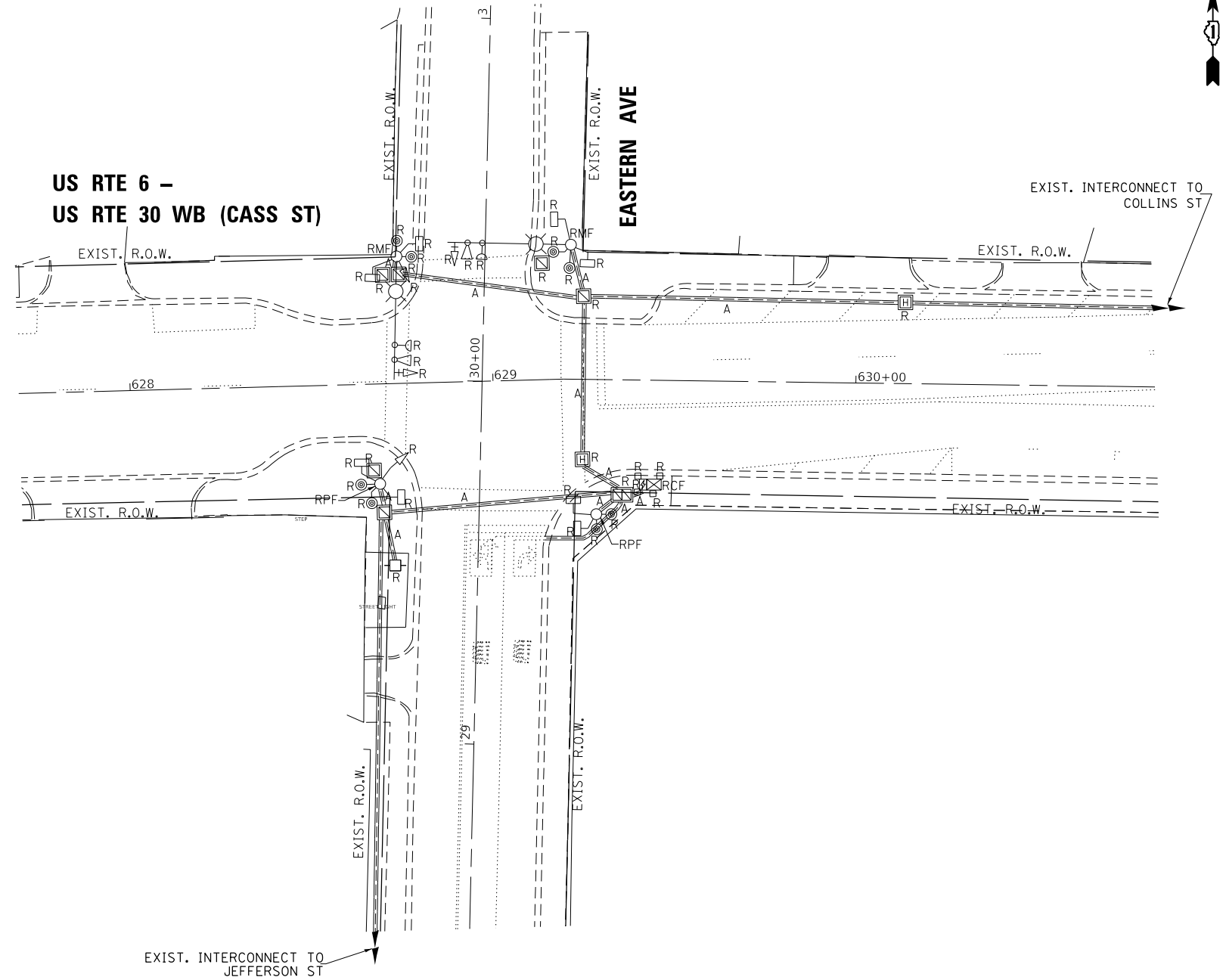
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POST
- 2 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH BOLLARD REMOVAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

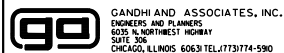
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



NOTES:

1. THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THIS INTERSECTION SHALL REMAIN IN OPERATION UNTIL NEW TRAFFIC SIGNAL INSTALLATION IS IN PLACE AND IN OPERATION. THE EXISTING TRAFFIC SIGNAL INSTALLATION SHALL BE REMOVED AFTER THE NEW SIGNAL INSTALLATION BECOMES OPERATIONAL.
2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

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GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 306
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0000' / 1" =	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

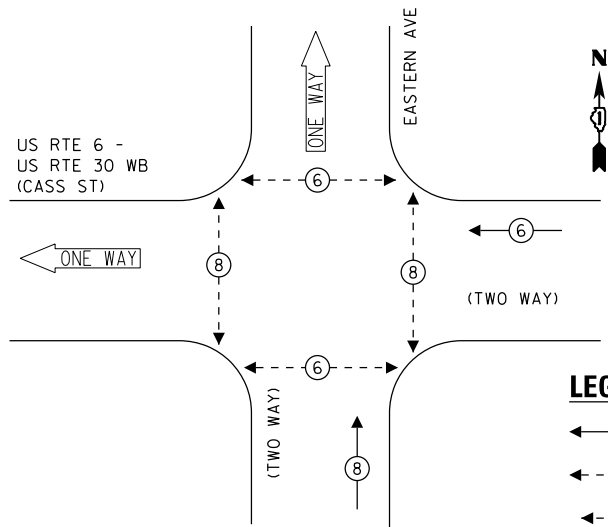
**EXISTING TRAFFIC SIGNAL INSTALLATION PLAN
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	30
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 21780
 ECON 123
 LOCATION NO. 9**

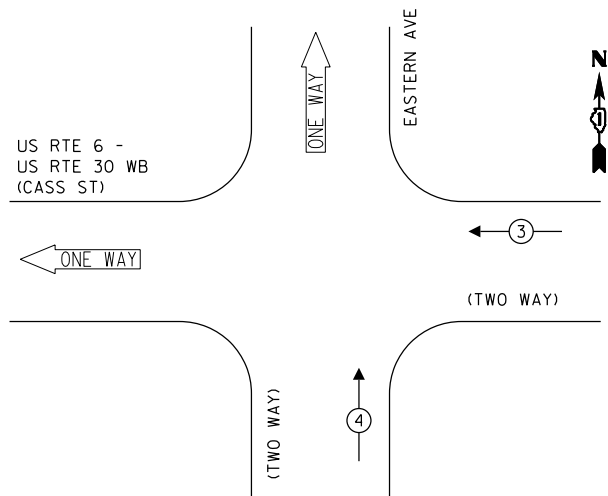
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



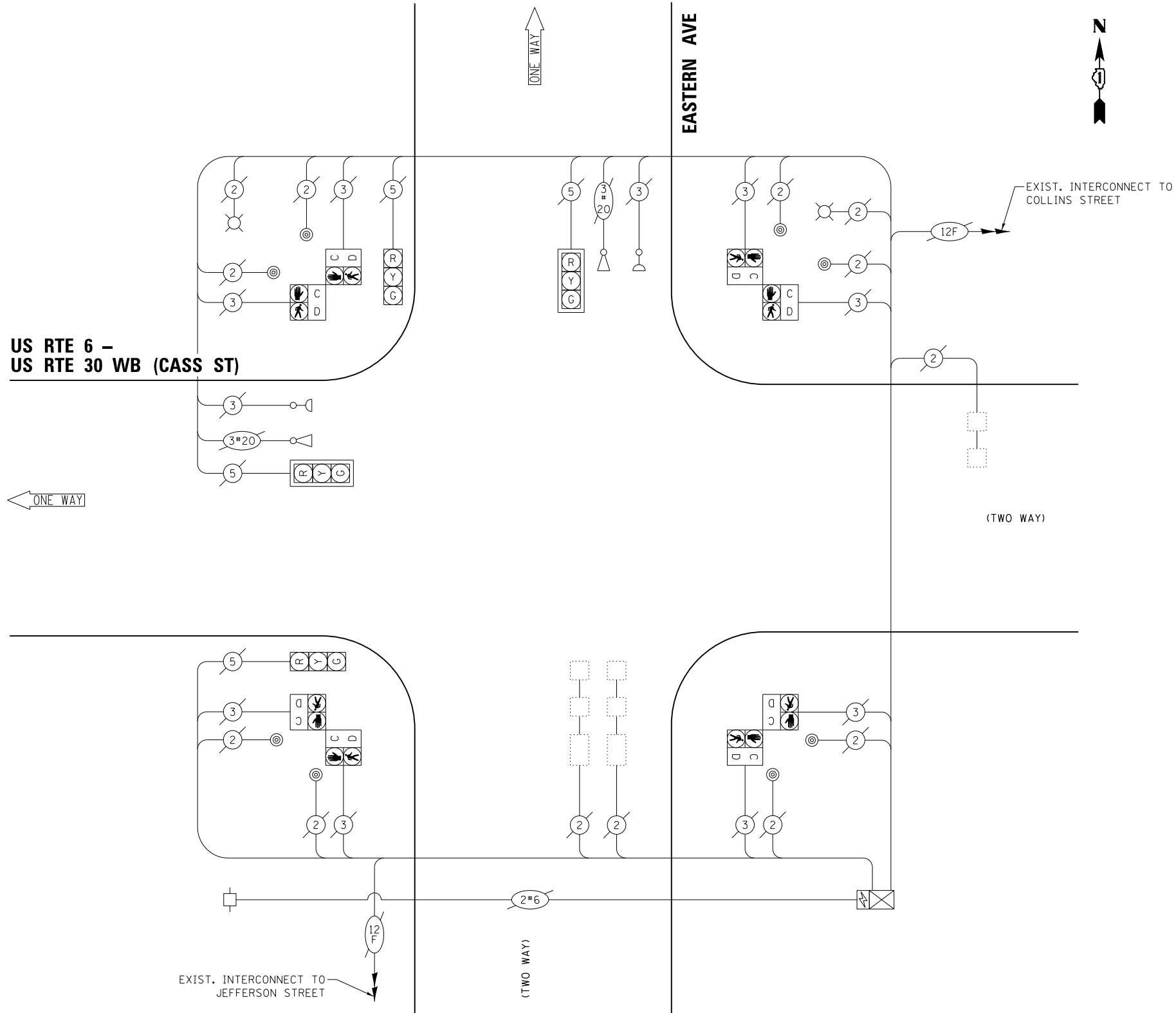
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	4	11	50	22.0
(YELLOW)	4	20	5	4.0
(GREEN)	4	12	45	21.6
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	-	150	100	-
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	332.6

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)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM,
AND EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE

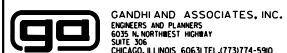
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	31

CONTRACT NO. 62H79

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

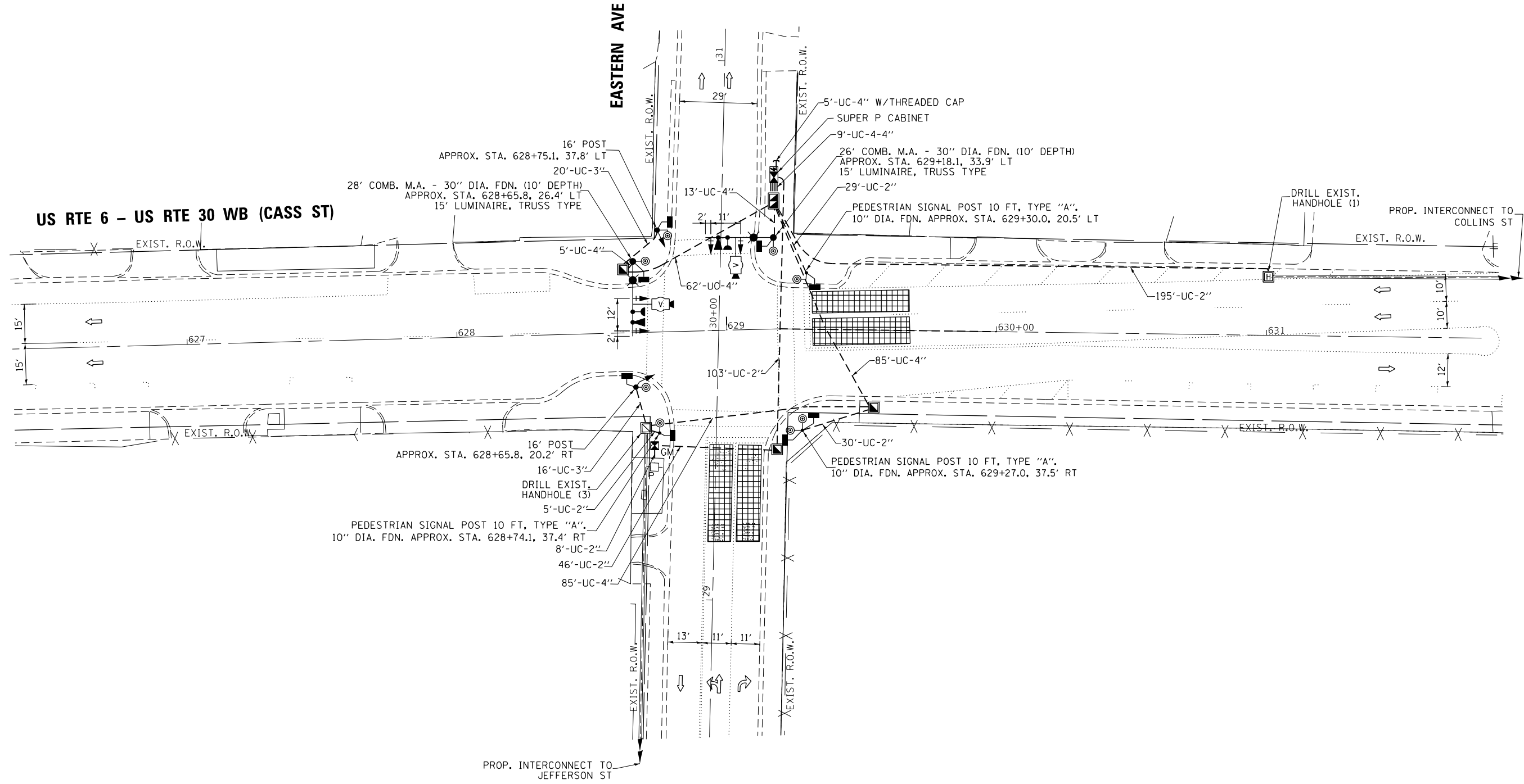
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

FILE NAME = K:\PROJECTS\Projects\2018\DOT\Joliet_Roads\Roads\CADD\Sheets\09 TS-21780_02.Cass St-Eastern Ave.TEMP.CDD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

TS 21780
ECON 123
LOCATION NO. 9



FILE NAME = K:\PROJECTS\Projects\2018\DDOT Joliet_Roads\CADD_Sheets\09 TS-21780.03.Cass St-Eastern Ave.INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

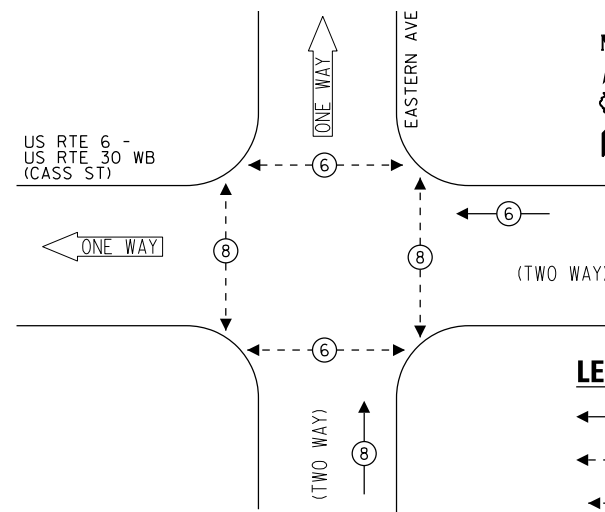
**TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	32
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

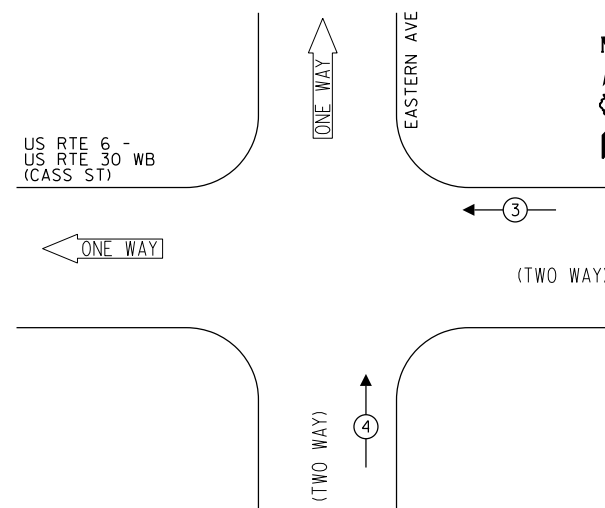
**TS 21780
ECON 123
LOCATION NO. 9**

PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ← ⊙ → PROTECTED PHASE
 - ← ⊙ ⊖ → PROTECTED/PERMITTED PHASE
 - ← ⊙ ⊕ → PEDESTRIAN PHASE
 - ← ⊙ OL → OVERLAP

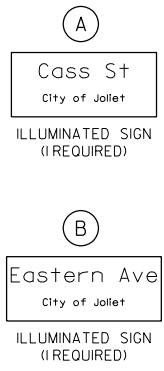
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
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	240.0
TOTAL =				866.4

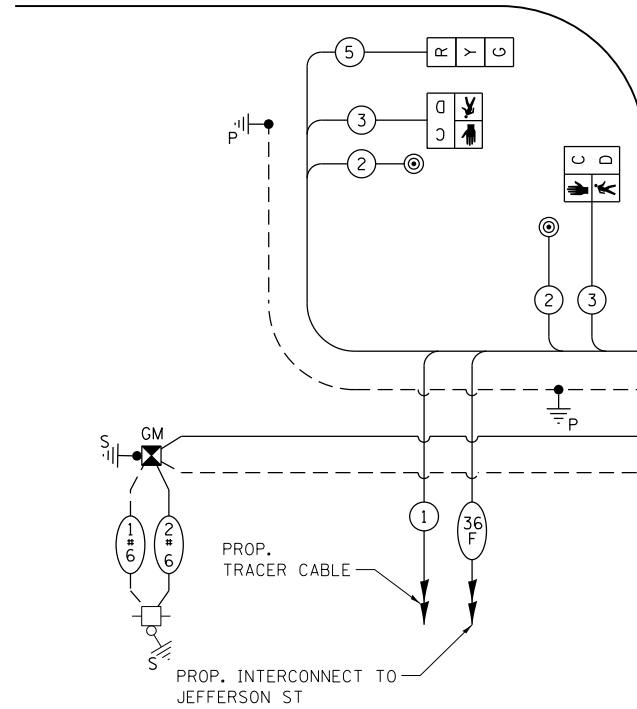
ENERGY COSTS TO:
 CITY OF JOLIET
 150 W JEFFERSON STREET
 JOLIET, IL 60432
 ENERGY SUPPLY: CONTACT: ANNETTE KISALA
 PHONE: (815) 724-5328
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER:



NOTE: THE SIGNS ARE DOUBLE SIDED.

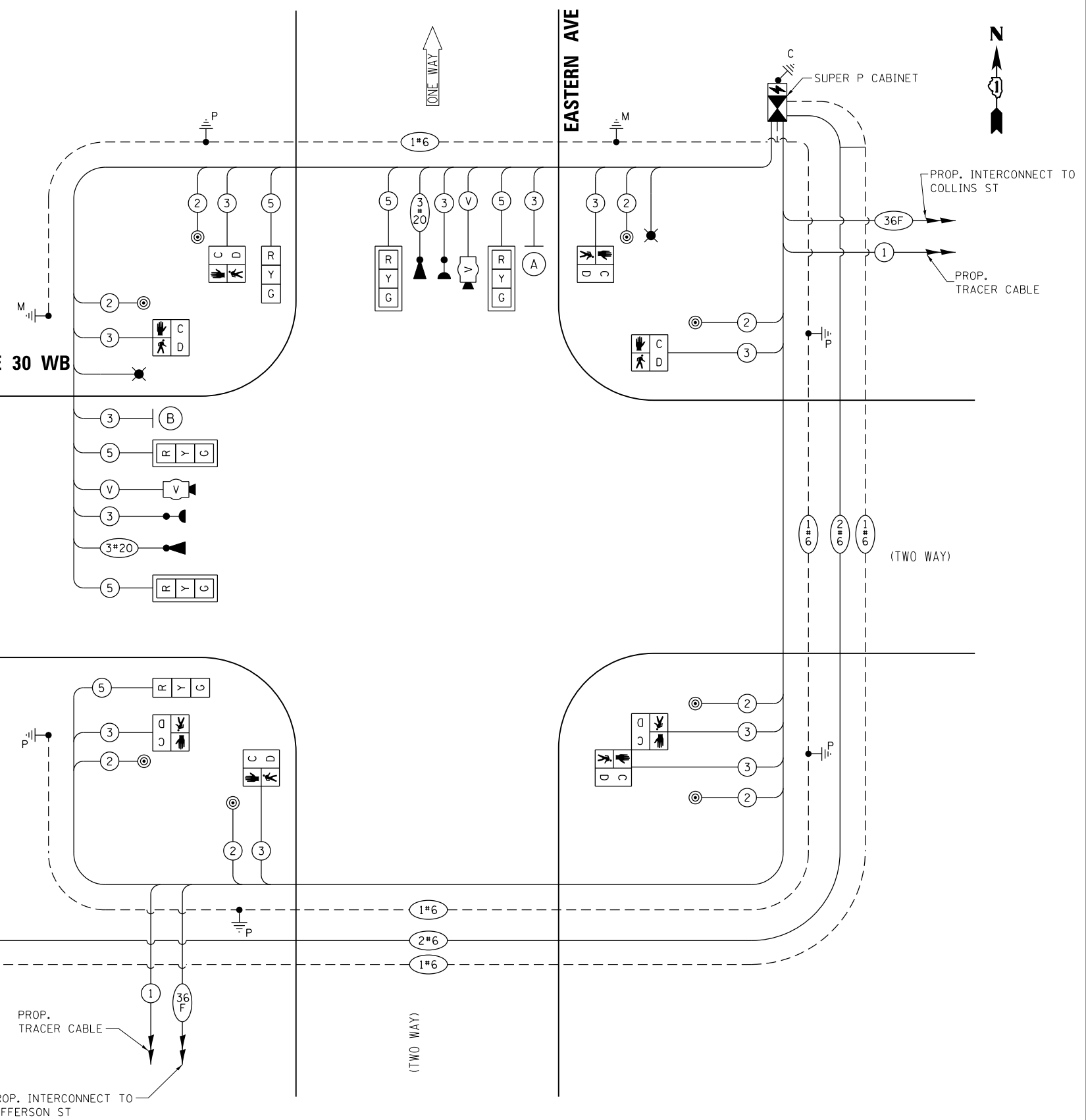
US RTE 6 - US RTE 30 WB (CASS ST)

ONE WAY



CABLE PLAN
(NOT TO SCALE)

EASTERN AVE



FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CCOD_Sheets\09 TS_21780_04_Cass St-Eastern Ave.CDDgn
 K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CCOD_Sheets\09 TS_21780_04_Cass St-Eastern Ave.CDDgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

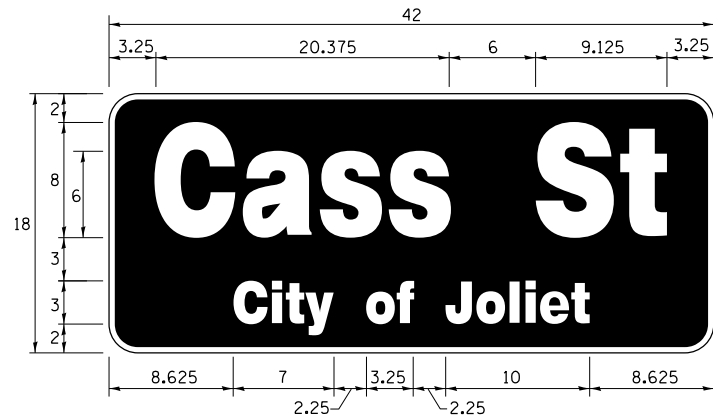
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	33
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 21780
ECON 123
LOCATION NO. 9

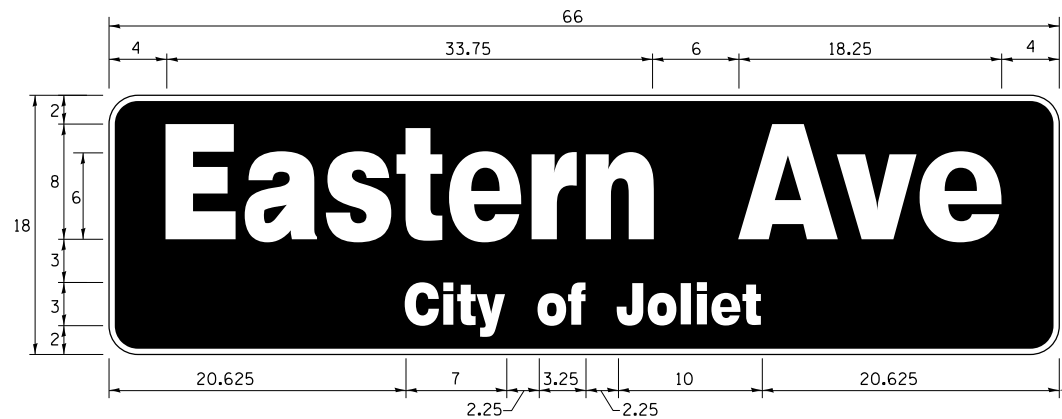
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	5.25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

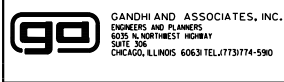
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	1.75
** DRILLED SHAFT IN ROCK	CU YD	3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	397
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	36
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	291
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1018
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1290
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	780
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	199
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	735
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	4
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	220
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
* FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	185
PEDESTRIAN SIGNAL POST, 10 FT	EACH	3
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	12
TEMPORARY INFORMATION SIGNING	SO FT	25.7
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	205

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects\2018\DDOT\Joliet_Roads\KCOD\Sheets\09 TS-21780_05.Cass St-Eastern Ave_CD2.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAST ARM MOUNTED LED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE			
SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	34
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 21780
ECON 123
LOCATION NO. 9**

REMOVAL AND RELOCATION NOTES:

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

- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 2 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 2 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

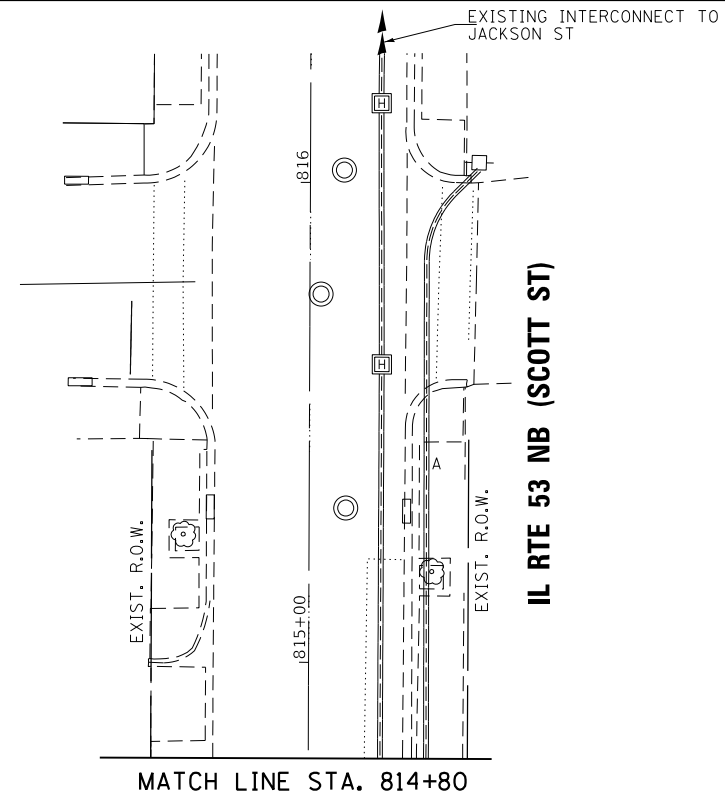
NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CABINET.

- 1 EACH MASTER CONTROLLER

MATCH LINE STA. 814+80



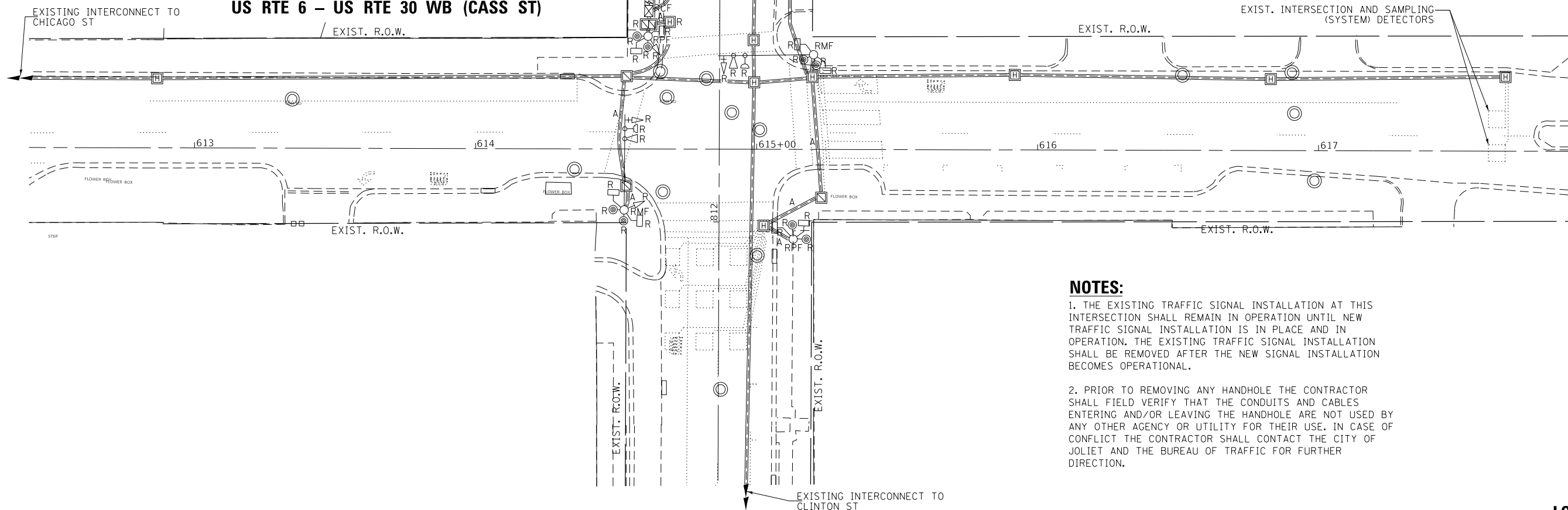
EXISTING TELEPHONE CONNECTION

EXIST. R.O.W.

EXIST. R.O.W.
 IL RTE 53 NB (SCOTT ST)

MATCH LINE STA. 814+80

US RTE 6 – US RTE 30 WB (CASS ST)



NOTES:

1. THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THIS INTERSECTION SHALL REMAIN IN OPERATION UNTIL NEW TRAFFIC SIGNAL INSTALLATION IS IN PLACE AND IN OPERATION. THE EXISTING TRAFFIC SIGNAL INSTALLATION SHALL BE REMOVED AFTER THE NEW SIGNAL INSTALLATION BECOMES OPERATIONAL.

2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC SIGNAL PLAN
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 6 – US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	35
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

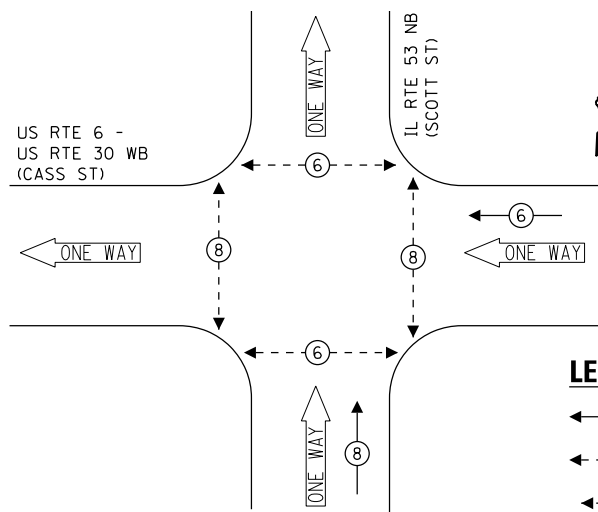
TS 21803
 ECON 121
 LOCATION NO. 10

GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 208
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0001" / 1"	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

K:\PROJECTS\Projects\2018\DDOT\Joliet_Roads\NCDD_Sheets\10 TS 21803_01_Cass St - Scott St_TEMP_INT.dgn

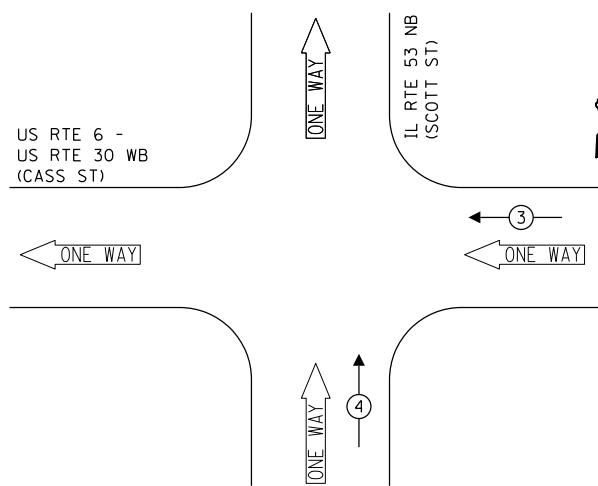
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	4	11	50	22.0
(YELLOW)	4	20	5	4.0
(GREEN)	4	12	45	21.6
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	-	150	100	-
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				332.6

ENERGY COSTS TO:

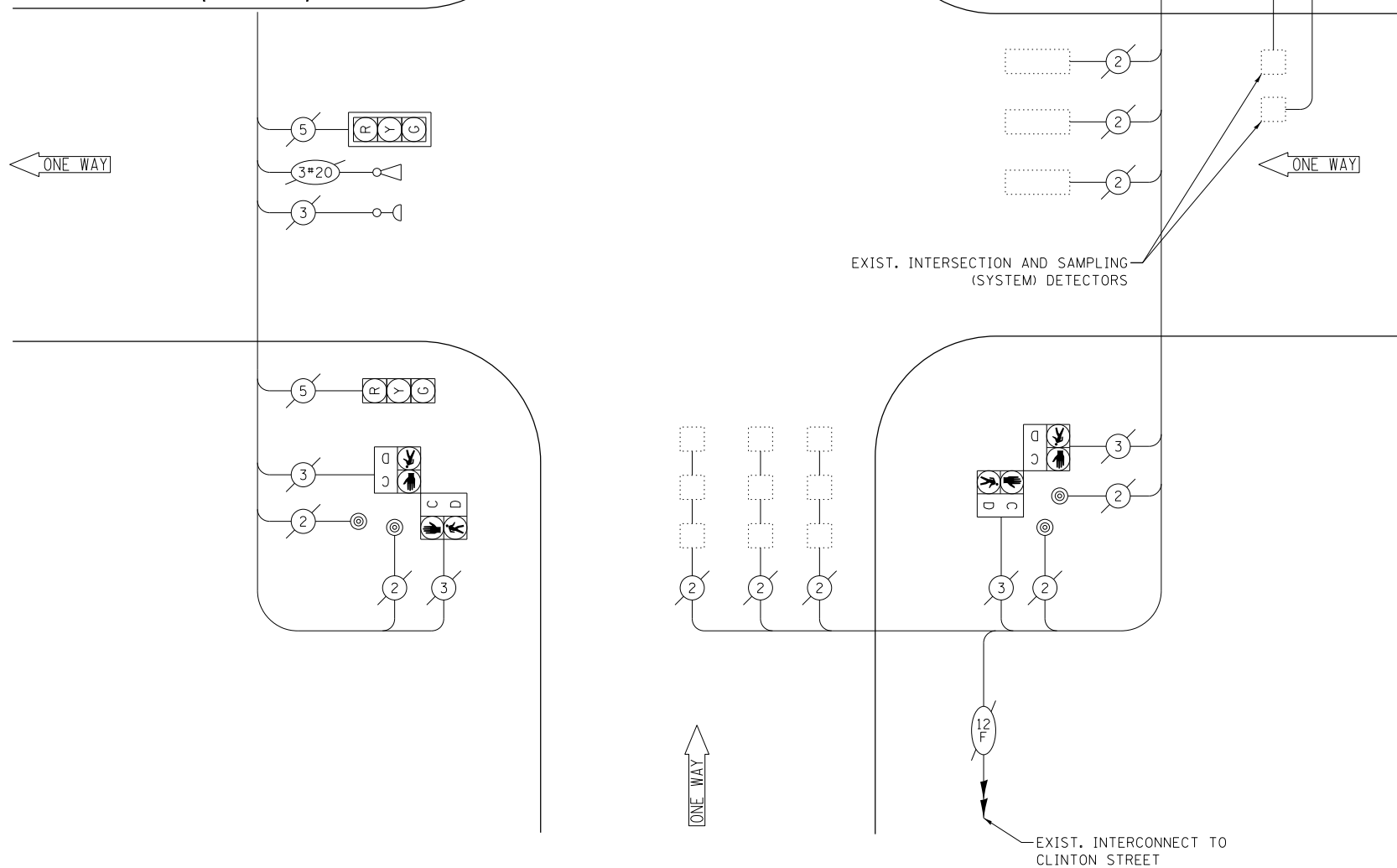
CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

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

RELOCATE EXIST. MASTER CONTROLLER TO PROPOSED CABINET

EXIST. INTERCONNECT TO CHICAGO STREET

US RTE 6 - US RTE 30 WB (CASS ST)



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

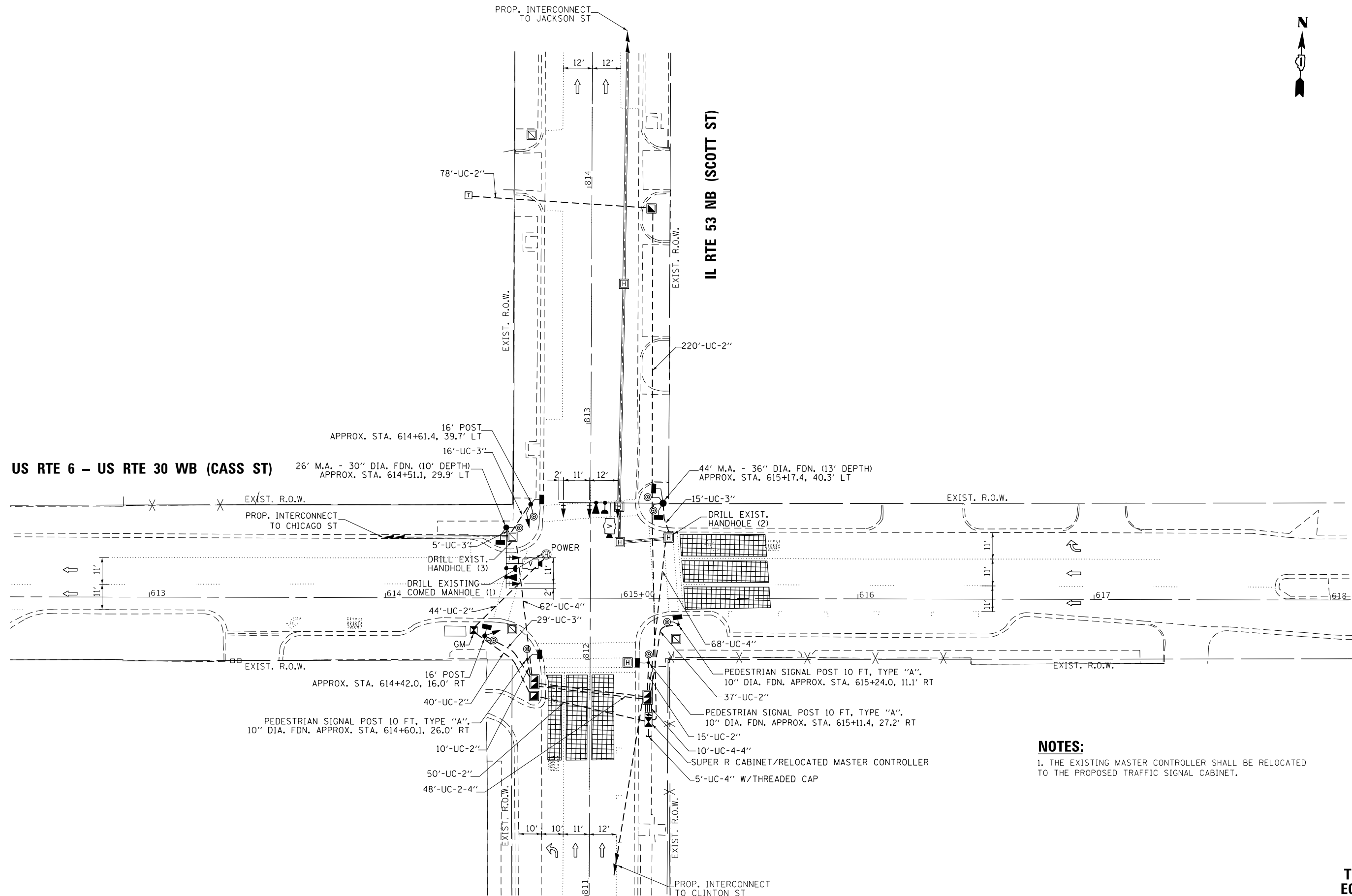
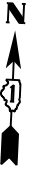
EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM,
AND EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	36

CONTRACT NO. 62H79

TS 21803
ECON 121
LOCATION NO. 10

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -



NOTES:
 1. THE EXISTING MASTER CONTROLLER SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CABINET.

K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CRDD_Sheets\18 TS 21803_03_Cass St-Scott St_INT.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
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PLOT DATE = \$DATE*		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

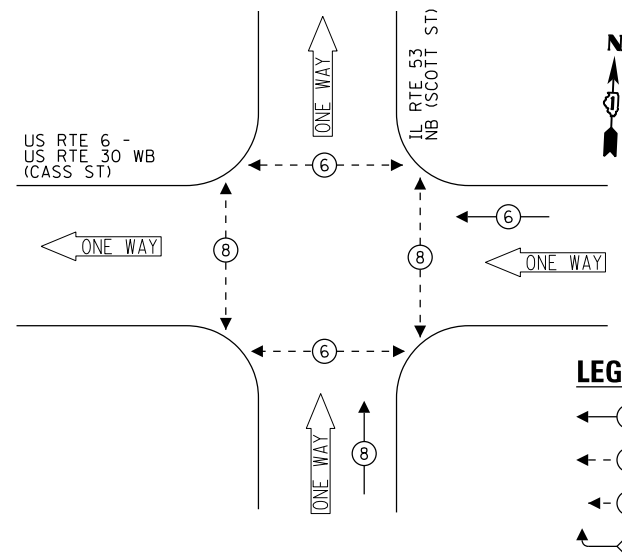
TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	37
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

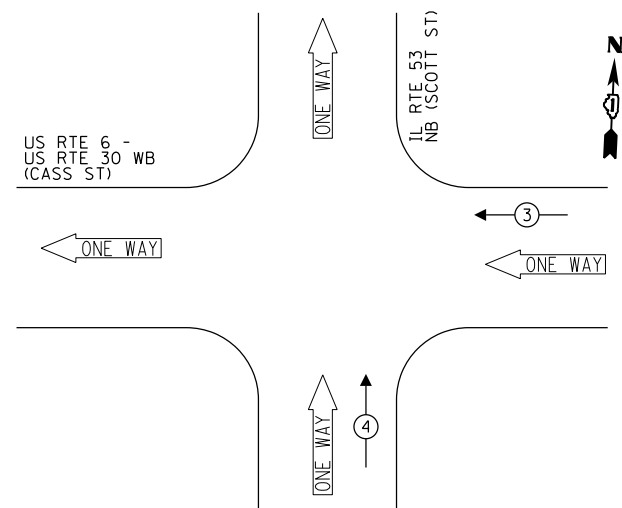
**TS 21803
 ECON 121
 LOCATION NO. 10**

PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ← (6) → PROTECTED PHASE
 - ← (8) → PROTECTED/PERMITTED PHASE
 - ← (P) → PEDESTRIAN PHASE
 - ← (OL) → OVERLAP

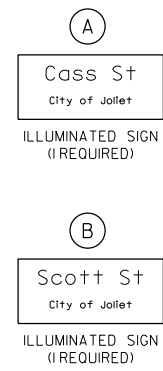
**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

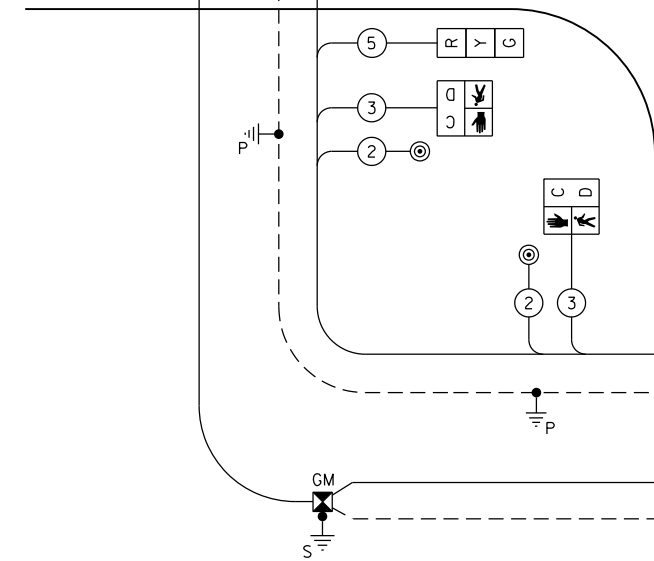
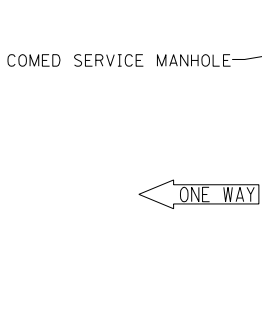
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	7	11	50	38.5
(YELLOW)	7	20	5	7.0
(GREEN)	7	12	45	37.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME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

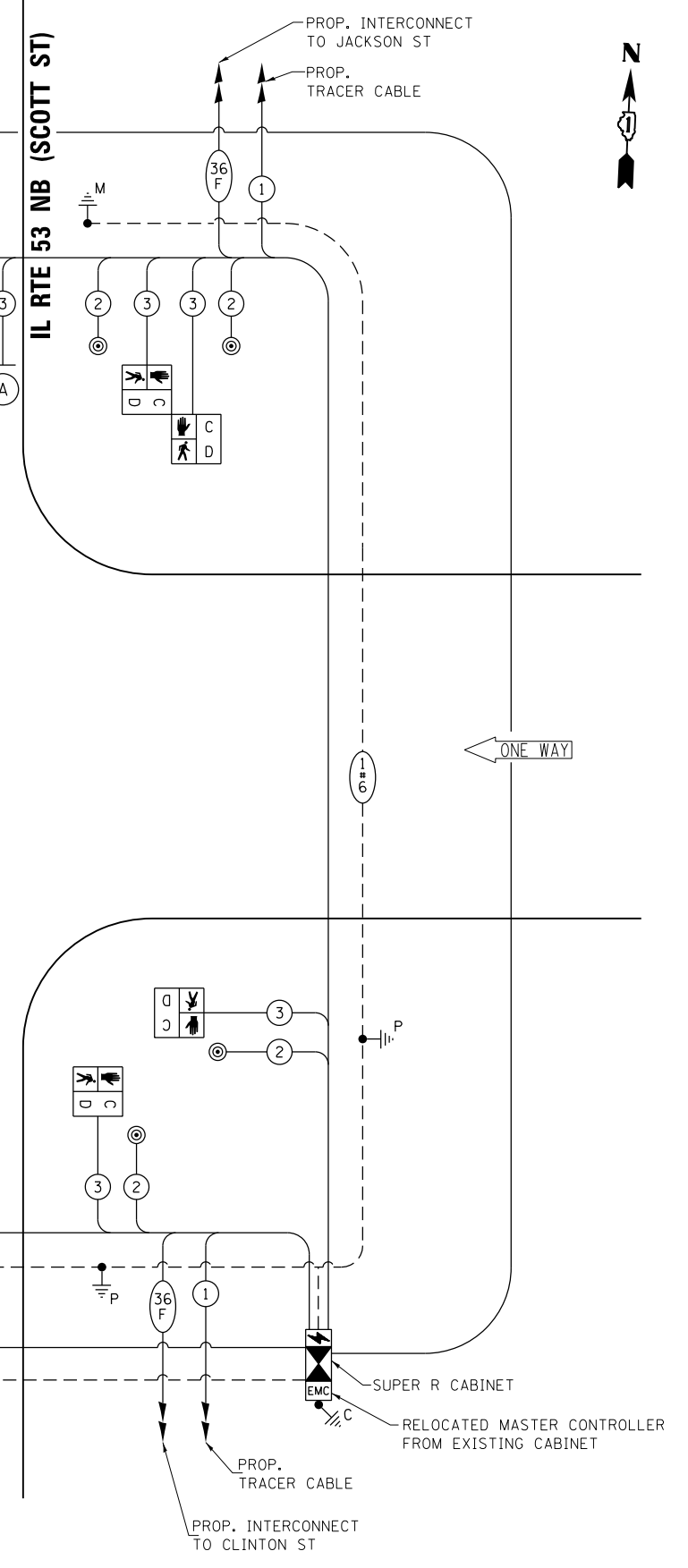


NOTE: THE SIGNS ARE DOUBLE SIDED.

PROP. INTERCONNECT TO CHICAGO ST
 PROP. TRACER CABLE
US RTE 6 - US RTE 30 WB (CASS ST)



**CABLE PLAN
(NOT TO SCALE)**



FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\SCDD_Sheets\10 TS_21803_04_Cass St - Scott St.dwg
 K:\PROJECTS\Projects\2018\DOT Joliet_Roads\SCDD_Sheets\10 TS_21803_04_Cass St - Scott St.dwg



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

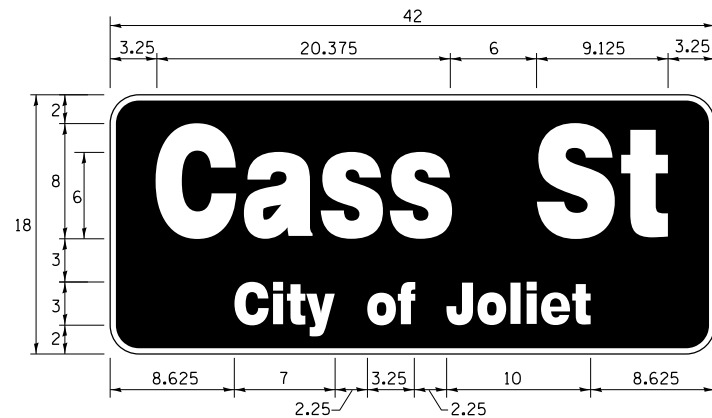
**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)**
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	38
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 21803
ECON 121
LOCATION NO. 10**

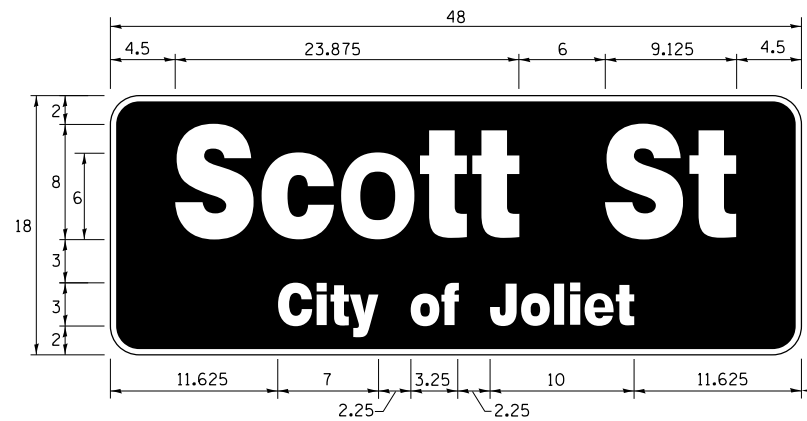
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	5.25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.0	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	2.25
** DRILLED SHAFT IN ROCK	CU YD	3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	494
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	271
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	984
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1422
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1260
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	183
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	587
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	5
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	382
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
* FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
* SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	210
PEDESTRIAN SIGNAL POST, 10 FT	EACH	3
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	12
RELOCATE EXISTING MASTER CONTROLLER	EACH	1
TEMPORARY INFORMATION SIGNING	SO FT	51.4
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	347

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects\2018\DDOT\Joliet_Roads\NCDD\Sheets\10 TS 21803_05_Cass St- Scott St_CD2.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAST ARM MOUNTED LED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES			
US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)			
SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	39
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 21803
ECON 121
LOCATION NO. 10**

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 7 EACH 3-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 7 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH BOLLARD REMOVAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

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

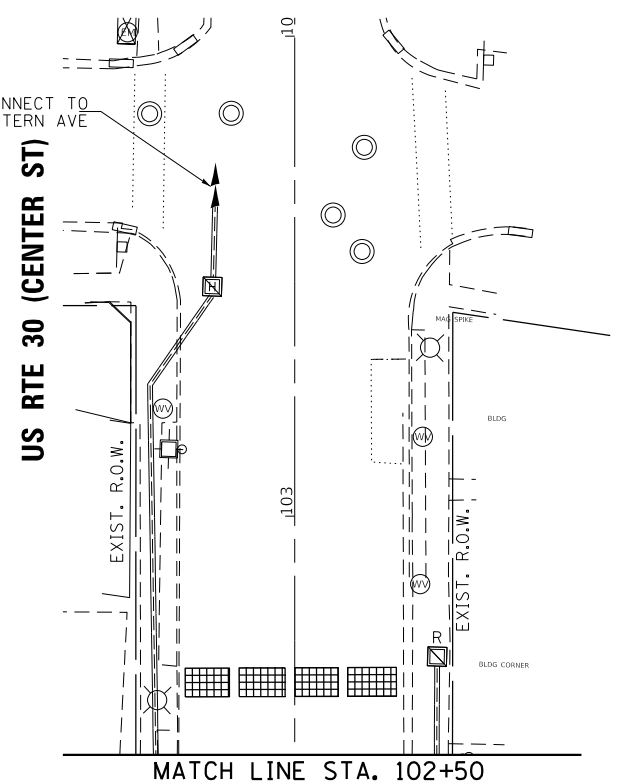
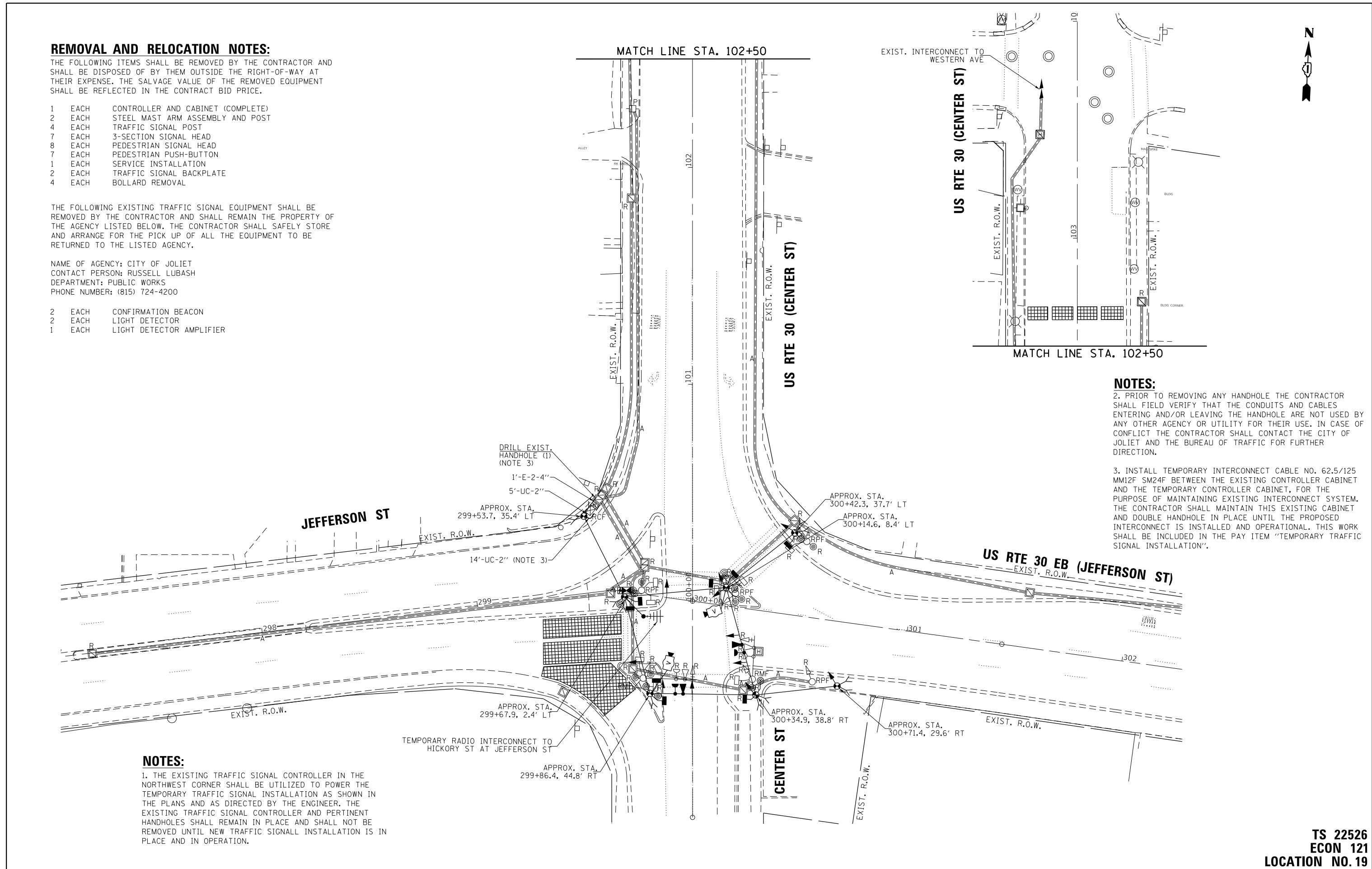
NOTES:

- 2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.
- 3. INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 MM12F SM24F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET, FOR THE PURPOSE OF MAINTAINING EXISTING INTERCONNECT SYSTEM. THE CONTRACTOR SHALL MAINTAIN THIS EXISTING CABINET AND DOUBLE HANDHOLE IN PLACE UNTIL THE PROPOSED INTERCONNECT IS INSTALLED AND OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

NOTES:

- 1. THE EXISTING TRAFFIC SIGNAL CONTROLLER IN THE NORTHWEST CORNER SHALL BE UTILIZED TO POWER THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE EXISTING TRAFFIC SIGNAL CONTROLLER AND PERTINENT HANDHOLES SHALL REMAIN IN PLACE AND SHALL NOT BE REMOVED UNTIL NEW TRAFFIC SIGNAL INSTALLATION IS IN PLACE AND IN OPERATION.

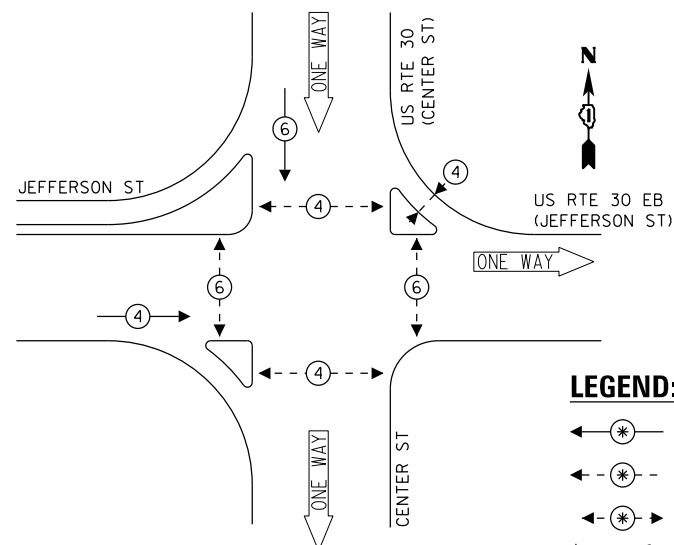
K:\PROJECTS\Projects 2018\DOT Joliet_Roads\NCDD_Sheets\19 TS 22526.01 Jefferson St-Center St-TEMP_INT.dgn



 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0001' / 1" =	CHECKED - PKG	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA.	TO STA.	2018-141-TS&I	WILL	90
PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -						CONTRACT NO. 62H79		FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT		

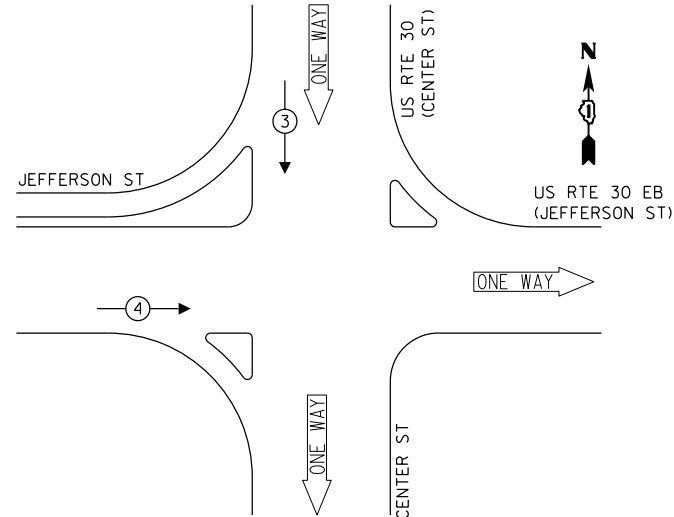
**TS 22526
 ECON 121
 LOCATION NO. 19**

TEMPORARY CONTROLLER SEQUENCE



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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



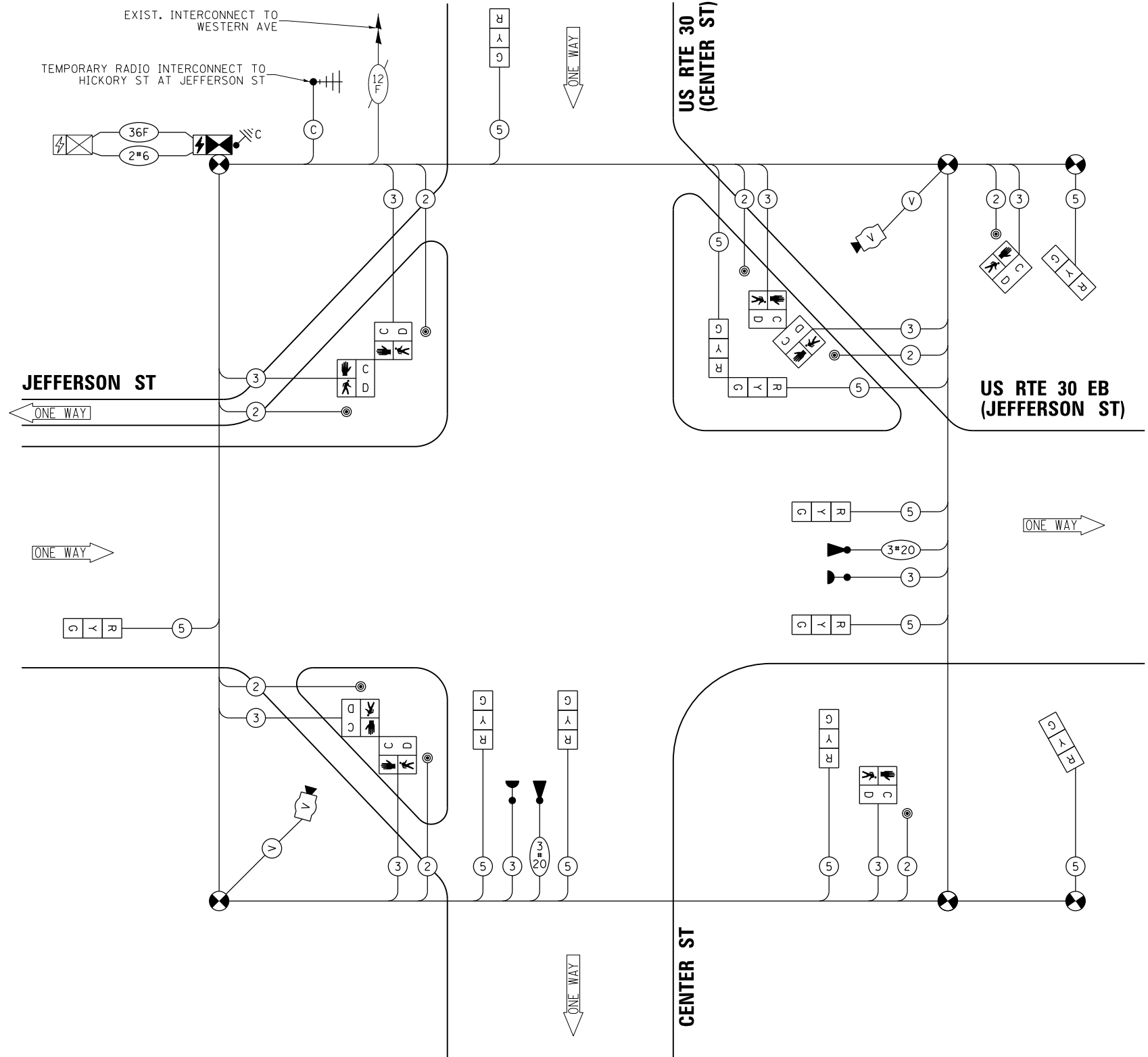
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	60.5
(YELLOW)	11	20	5	11.0
(GREEN)	11	12	45	59.4
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
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	565.9

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)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	41
CONTRACT NO. 62H79				

TS 22526
ECON 121
LOCATION NO. 19

FILE NAME = K:\PROJECTS\Projects\2018\DOT\Joliet_Roads\CCOD_Sheets\19_TS_22526_ECON_121_Location_19\JEFFERSON ST-CENTER ST-TEMP_CD.dgn

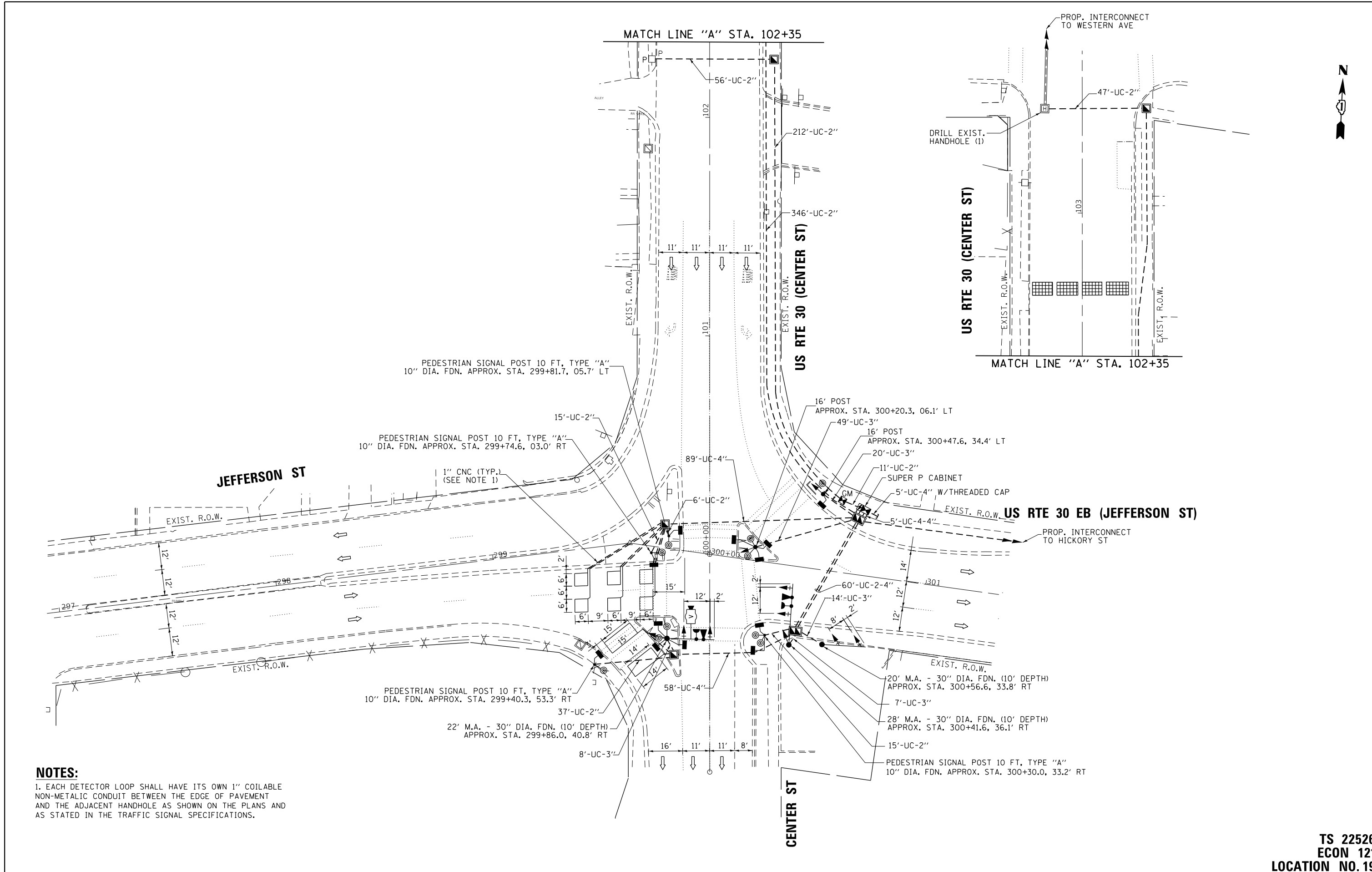


USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

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

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

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet Road\KCODD_Sheets\19 TS 22526.03.Jefferson St-Center St-INT.dgn



NOTES:
 1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.



USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0001' / 1\"	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE*		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

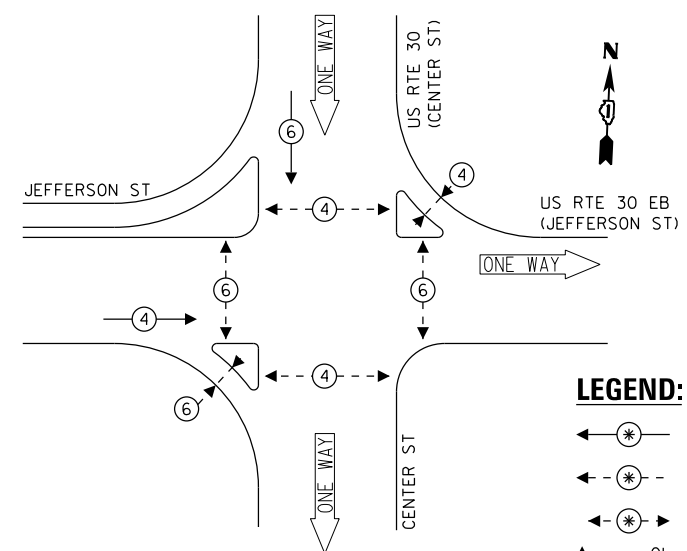
TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	42
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

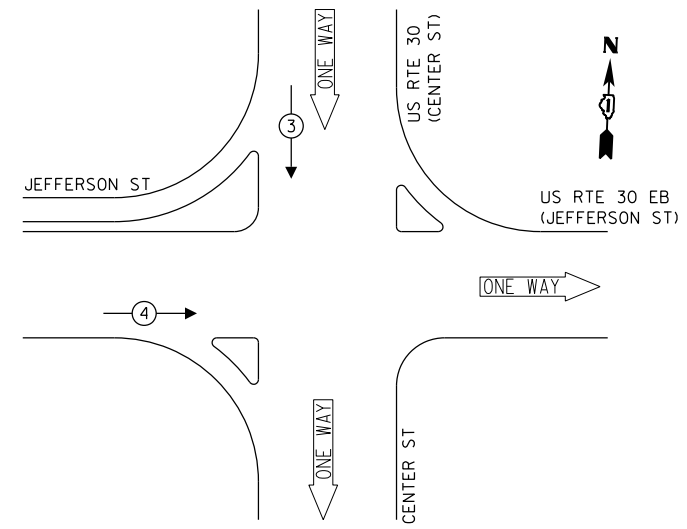
TS 22526
ECON 121
LOCATION NO. 19

PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ← ⊙ → PROTECTED PHASE
 - ← ⊙ - - ⊙ → PROTECTED/PERMITTED PHASE
 - ← ⊙ → PEDESTRIAN PHASE
 - ← ⊙ OL → OVERLAP

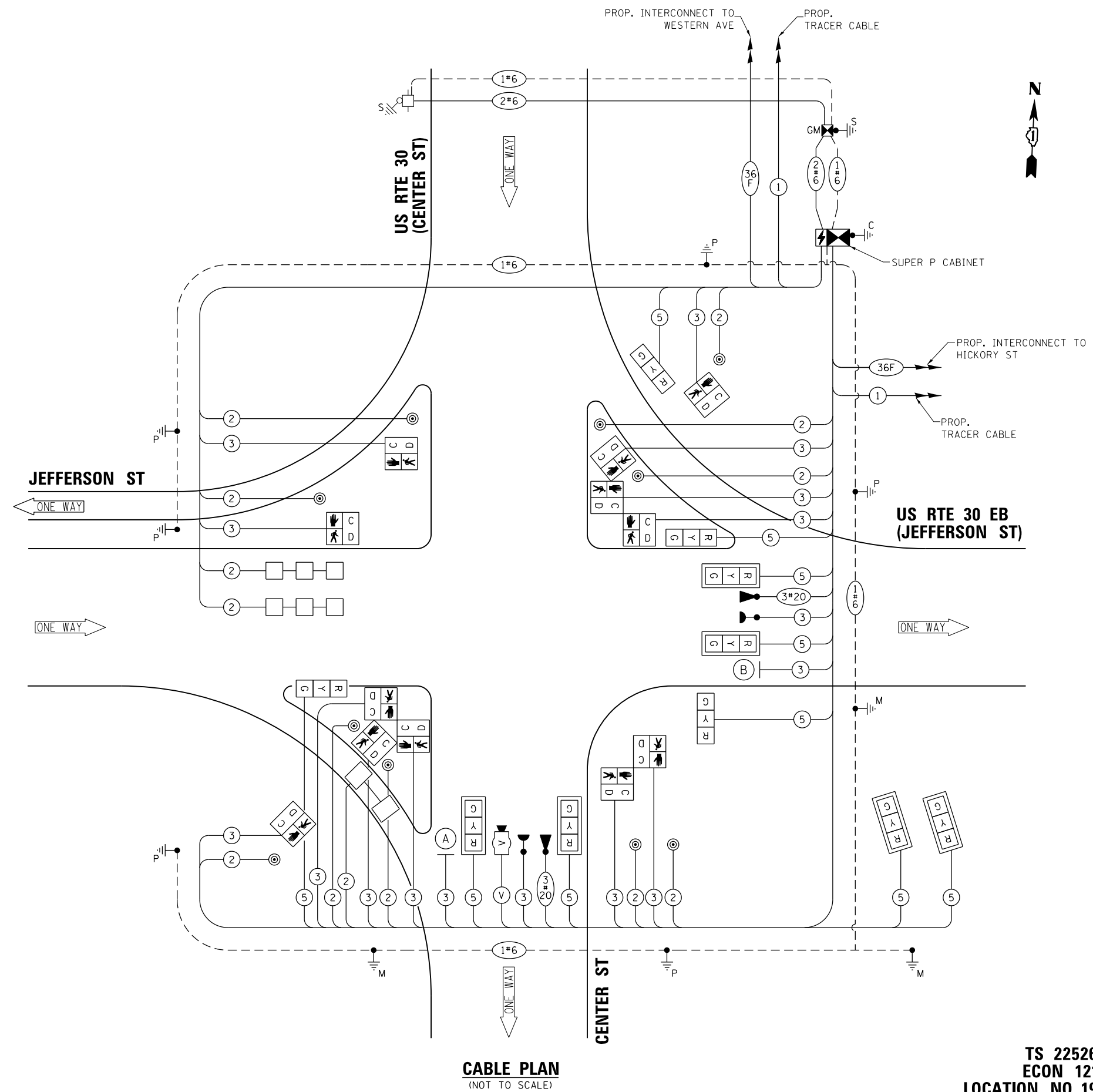
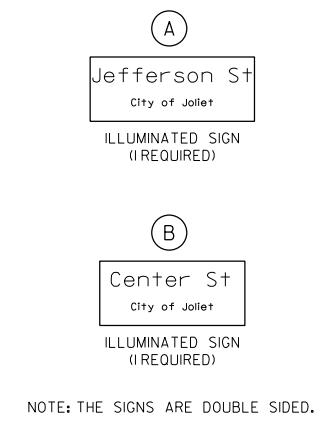
**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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:



CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CCOD_Sheets\19 TS_22526_04_Jefferson St-Center St.CDDgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

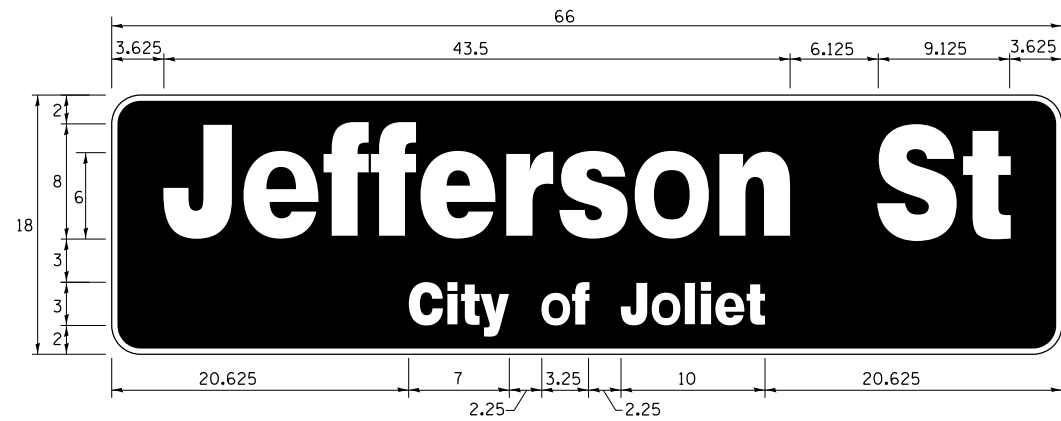
**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)**
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. VAR	SECTION 2018-141-TS&I	COUNTY WILL	TOTAL SHEETS 90	SHEET NO. 43
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22526
ECON 121
LOCATION NO. 19**

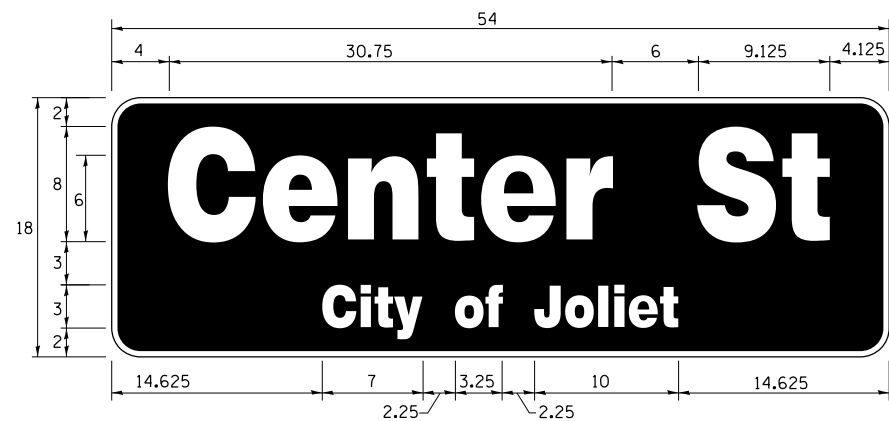
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.75	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

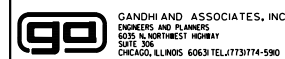
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	2.75
** DRILLED SHAFT IN ROCK	CU YD	7
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	745
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	98
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	292
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1325
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2000
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1275
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	400
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	325
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	920
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	12
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	3
DETECTOR LOOP, TYPE I	FOOT	280
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	10
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING DOUBLE HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	356
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
* FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
* SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	285
PEDESTRIAN SIGNAL POST, 10 FT	EACH	4
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	16
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	345

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR TEMPORARY WOOD POLES, CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects\2018\DDOT\Joliet_Roads\CCOD_Sheets\19_TS_22526_05_Jefferson_St-Center_St.CD2.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 48.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED LED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	44
CONTRACT NO. 62H79			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

TS 22526
ECON 121
LOCATION NO. 19

REMOVAL AND RELOCATION NOTES:

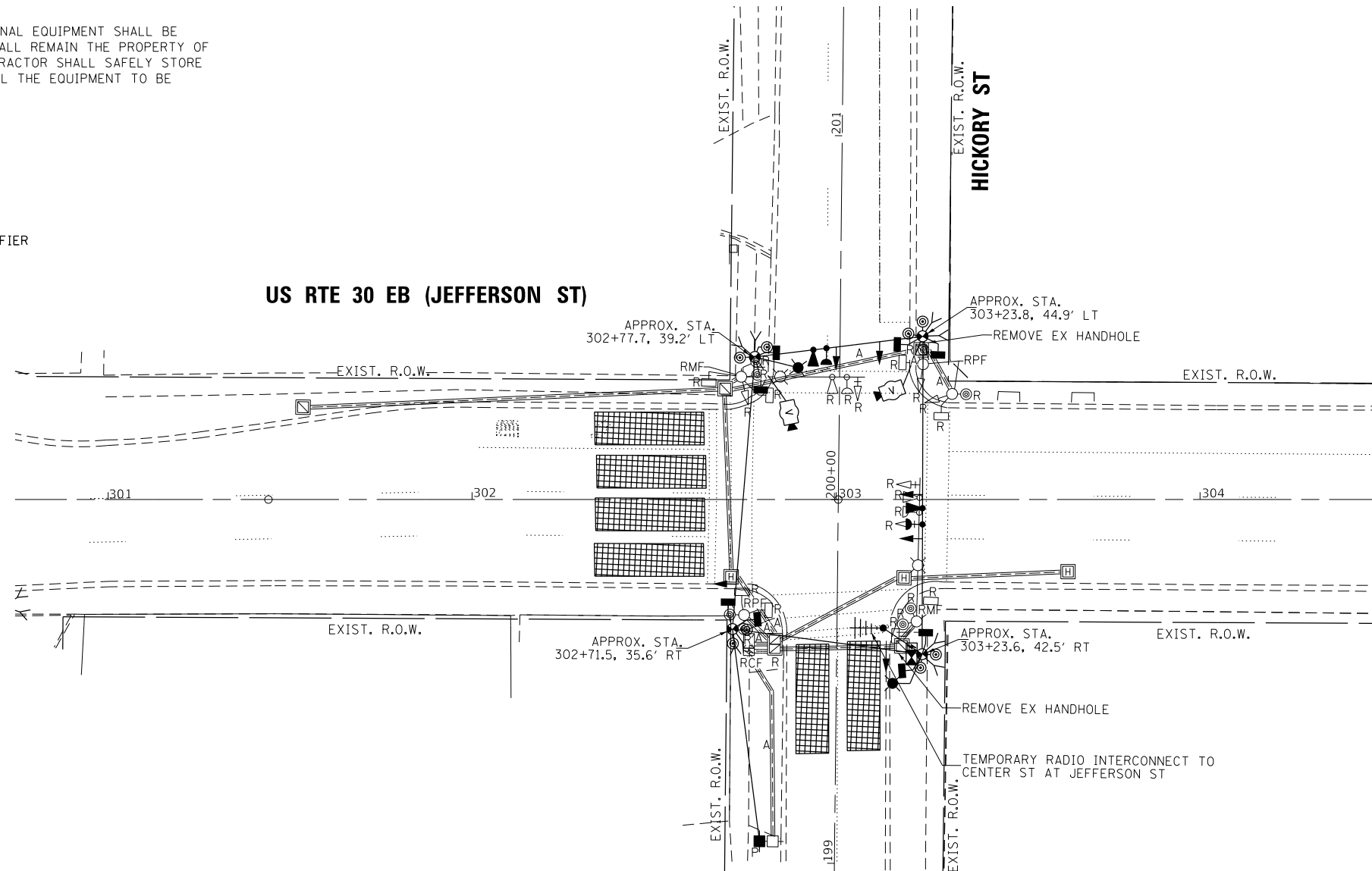
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 3 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

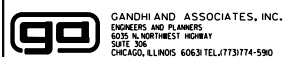
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



NOTES:

1. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\20 TS_22527_01_Jefferson St-Hickory St_TEMP_INT.dgn



GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 306
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

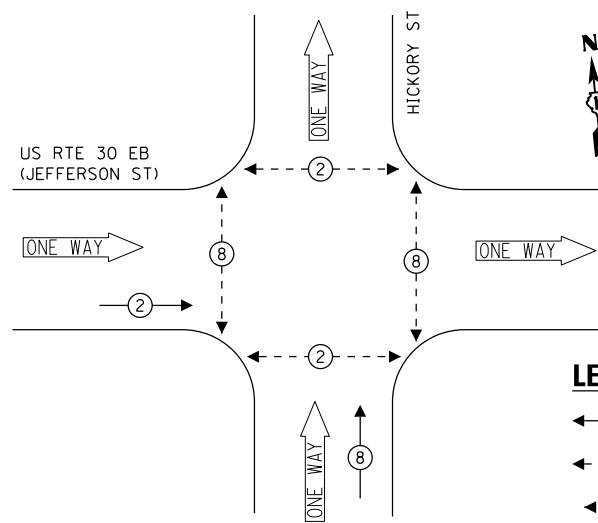
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 30 EB (JEFFERSON ST) AT HICKORY ST

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	45
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

TS 22527
 ECON 121
 LOCATION NO. 20

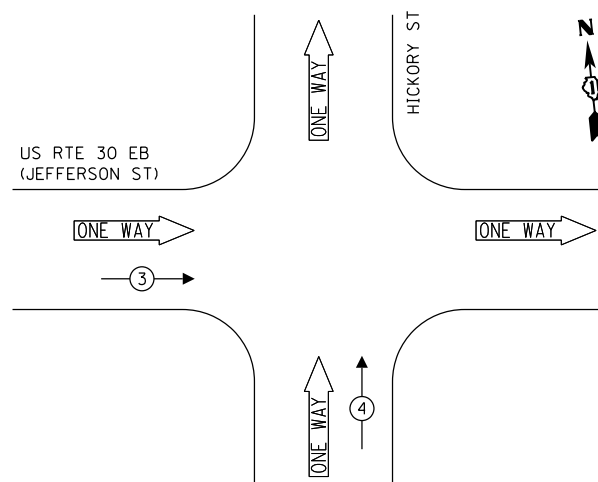
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

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

**TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
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
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	268	50	268.0
TOTAL =				774.4

ENERGY COSTS TO:

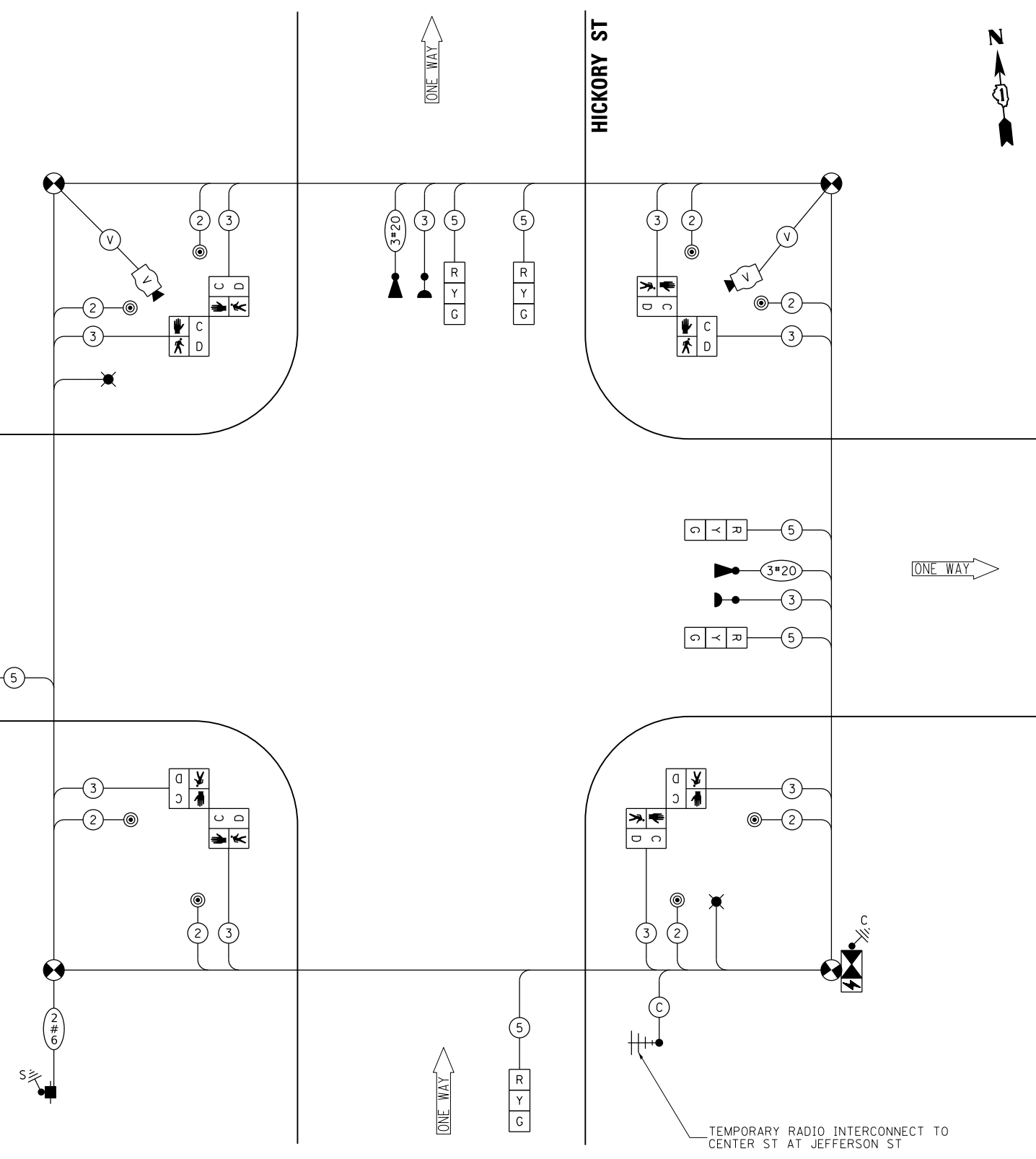
CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

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

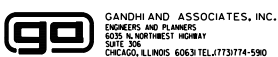
**US RTE 30 EB
(JEFFERSON ST)**

ONE WAY →

ONE WAY →



**CABLE PLAN
(NOT TO SCALE)**



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / IN.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 EB (JEFFERSON ST) AT HICKORY ST**

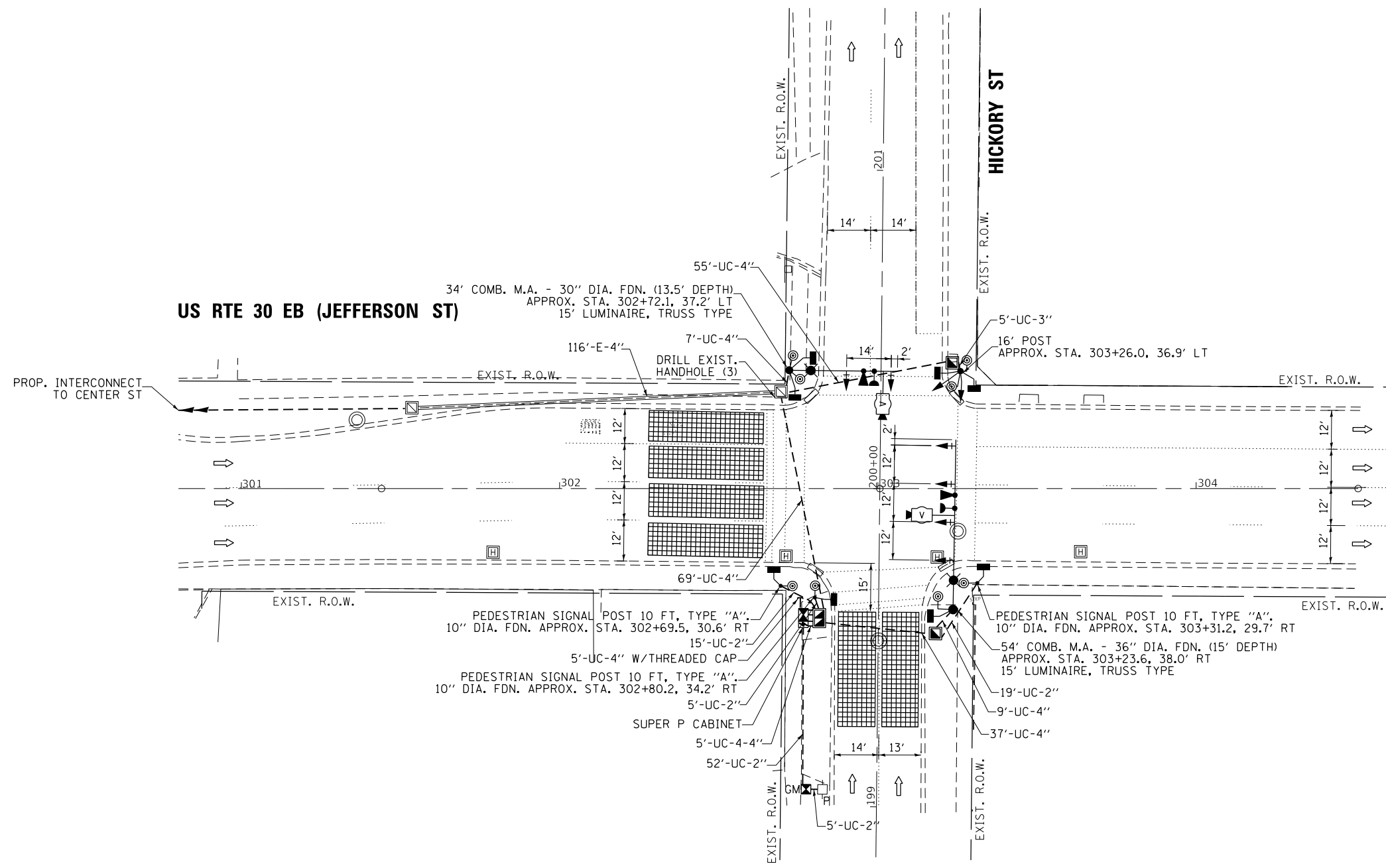
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	46
CONTRACT NO. 62H79				

**TS 22527
ECON 121
LOCATION NO. 20**

FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

FILE NAME = K:\PROJECTS\Projects\2018\DOT\Joliet_Roads\CCOD_Sheets\20 TS_22527_02_Jefferson St-Hickory St.TEMP.CADD



FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\20 TS_22527_03_Jefferson St-Hickory St.INT.dgn



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 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 305
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
DATE - 2/6/2020		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

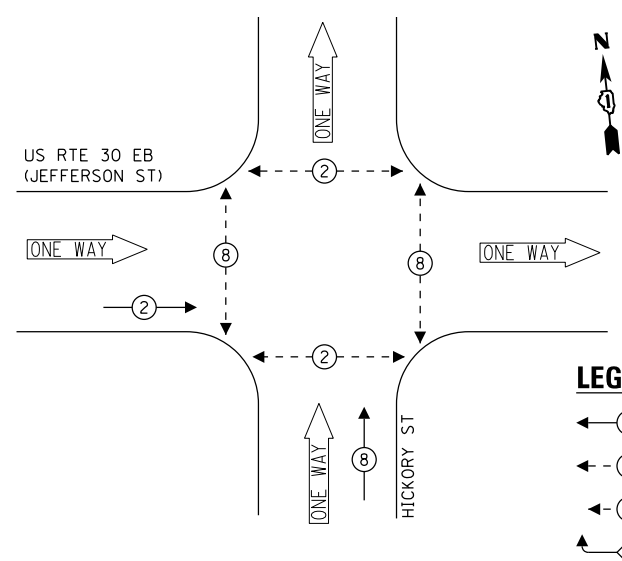
TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 30 EB (JEFFERSON ST) AT HICKORY ST

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	47
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

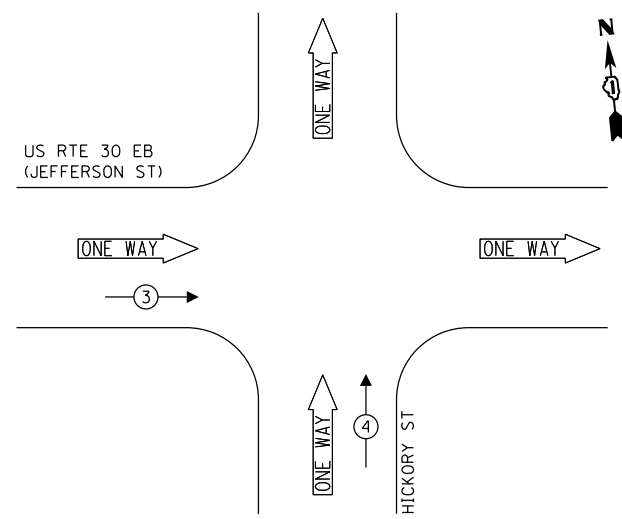
TS 22527
ECON 121
LOCATION NO. 20

PROPOSED CONTROLLER SEQUENCE



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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

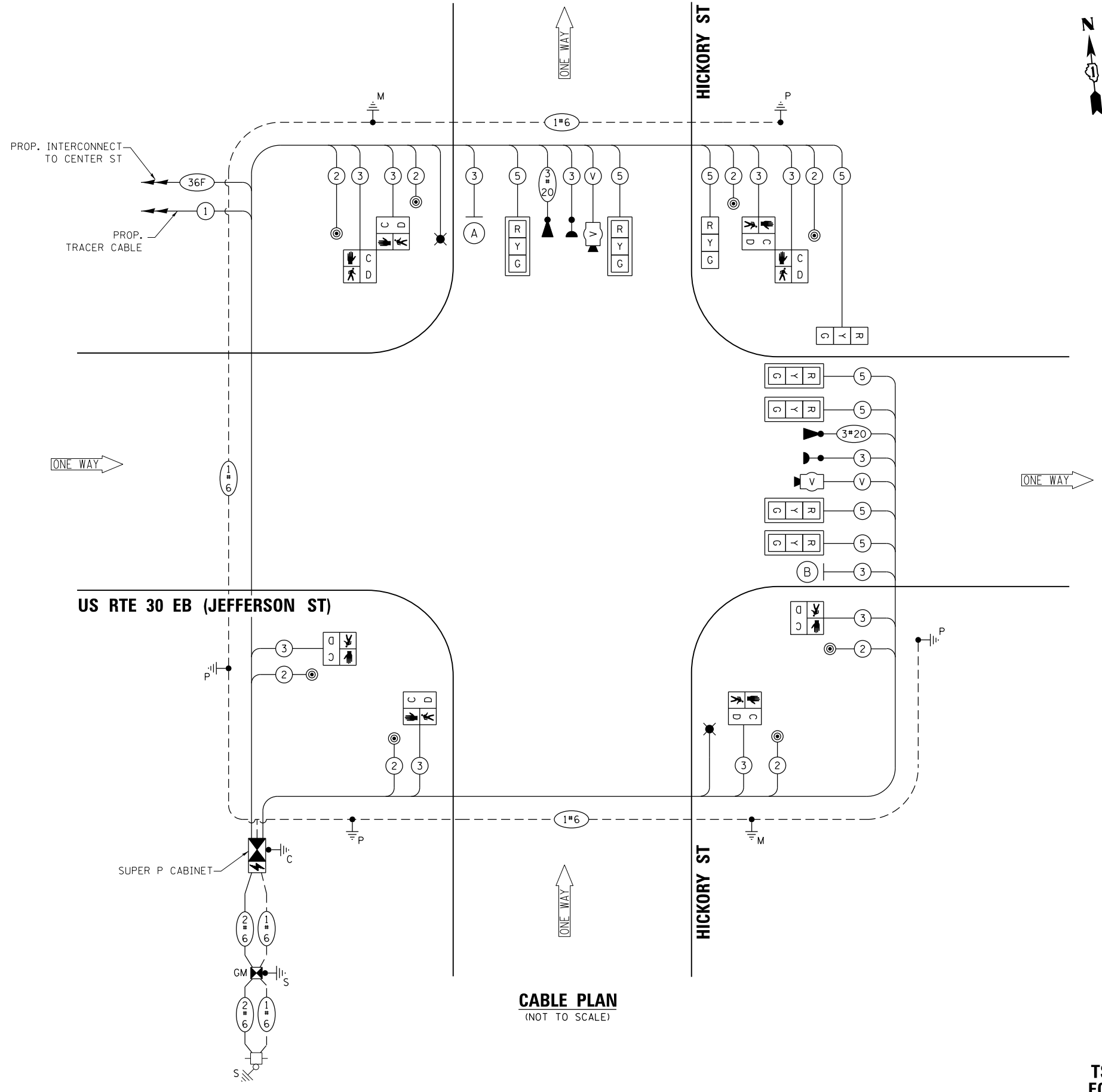
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44.0
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME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

(B)
 Hickory St
 City of Joliet
 ILLUMINATED SIGN (REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CCOD_Sheets\20 TS_22527_04_Jefferson St-Hickory St.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 EB (JEFFERSON ST) AT HICKORY ST

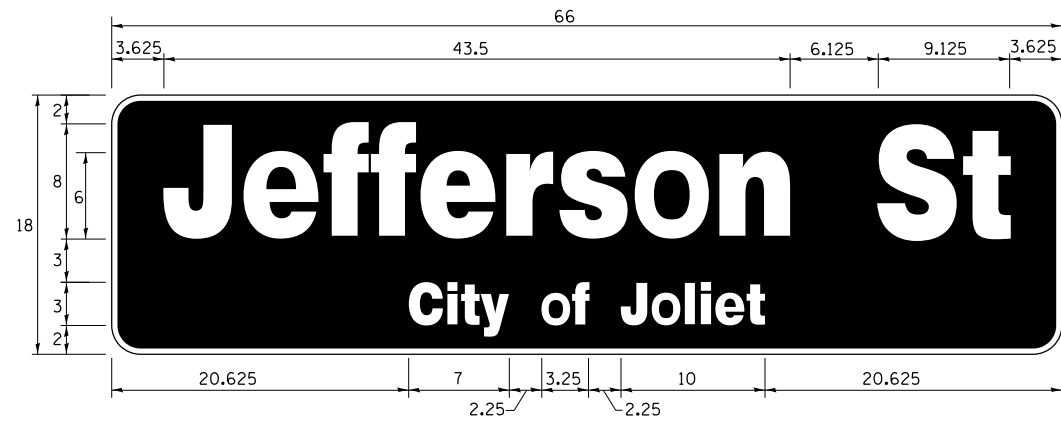
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	48
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 22527
ECON 121
LOCATION NO. 20

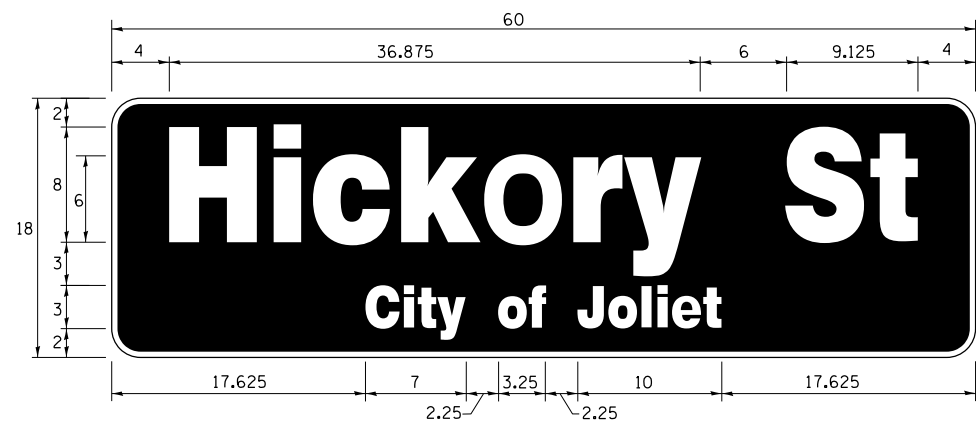
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	7.5	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

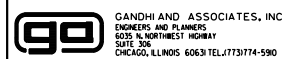
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	1.5
** DRILLED SHAFT IN ROCK	CU YD	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	96
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	202
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	855
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1190
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1220
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	107
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	450
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	300
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	75
PEDESTRIAN SIGNAL POST, 10 FT	EACH	3
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	12
TEMPORARY INFORMATION SIGNING	SQ FT	25.7
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	246

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR TEMPORARY WOOD POLES, CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\20 TS_22527_05 Jefferson St-Hickory St.CDD.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	REVISIONS -	
PLOT SCALE = 40.0000' / 1" =	CHECKED - PKG	REVISIONS -
PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED LED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 30 EB (JEFFERSON ST) AT HICKORY ST**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	49
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22527
ECON 121
LOCATION NO. 20**



REMOVAL AND RELOCATION NOTES:

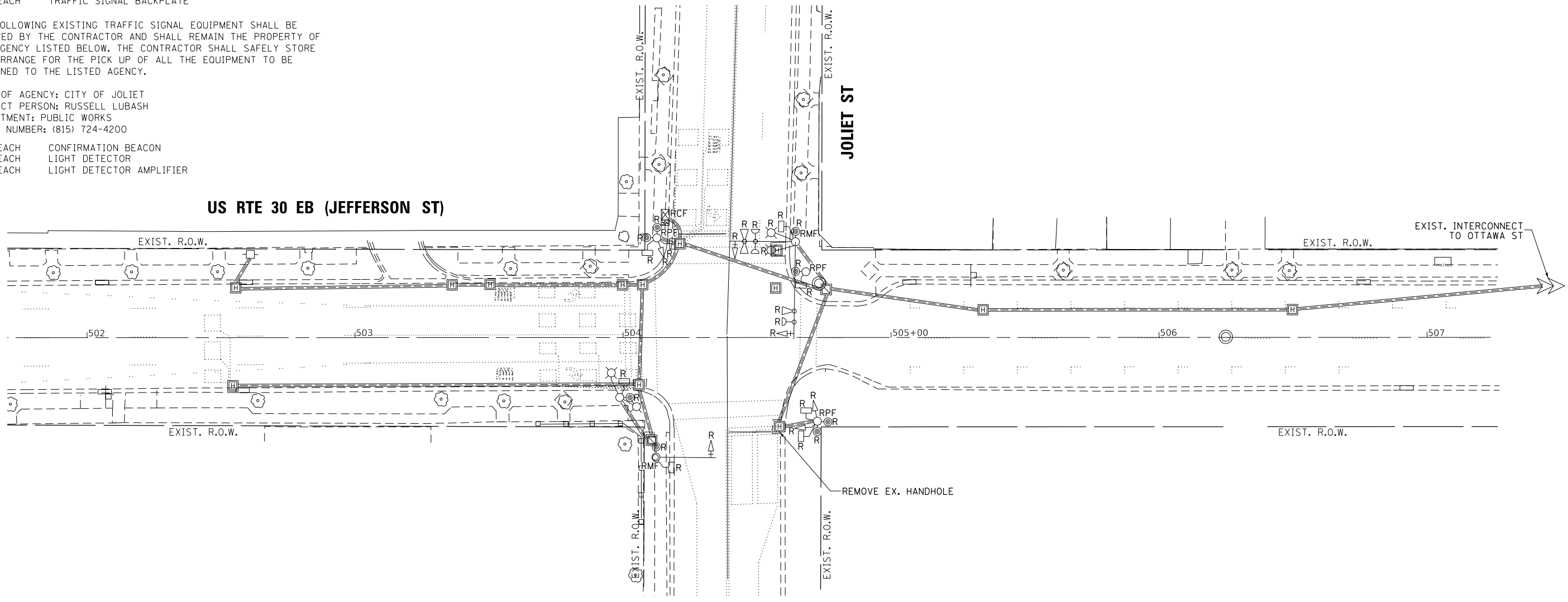
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POST W/ DUAL MAST ARM
- 3 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 3 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

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



NOTES:

1. THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THIS INTERSECTION SHALL REMAIN IN OPERATION UNTIL NEW TRAFFIC SIGNAL INSTALLATION IS IN PLACE AND IN OPERATION. THE EXISTING TRAFFIC SIGNAL INSTALLATION SHALL BE REMOVED AFTER THE NEW SIGNAL INSTALLATION BECOMES OPERATIONAL.
2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

K:\PROJECTS\Projects\2018\DOT Joliet_Roads\Roads\KODD_Sheets\21 TS 22528_01_Jefferson St-Joliet St_TEMP_INT.dgn

	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISED -
	PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

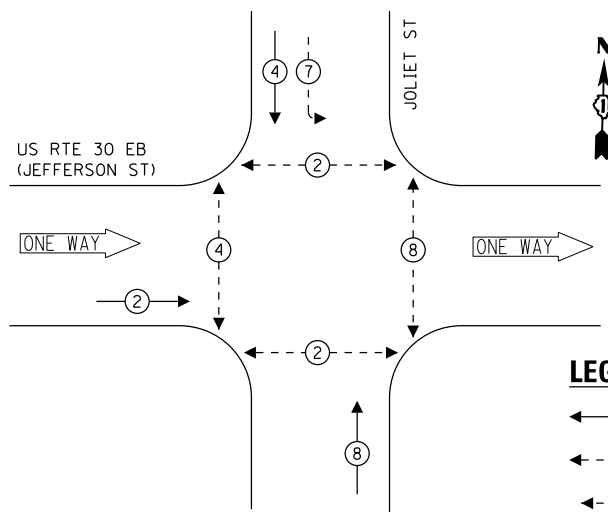
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TRAFFIC SIGNAL PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN US RTE 30 EB (JEFFERSON ST) AT JOLIET ST			
SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	50
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 22528
ECON 121
LOCATION NO. 21**

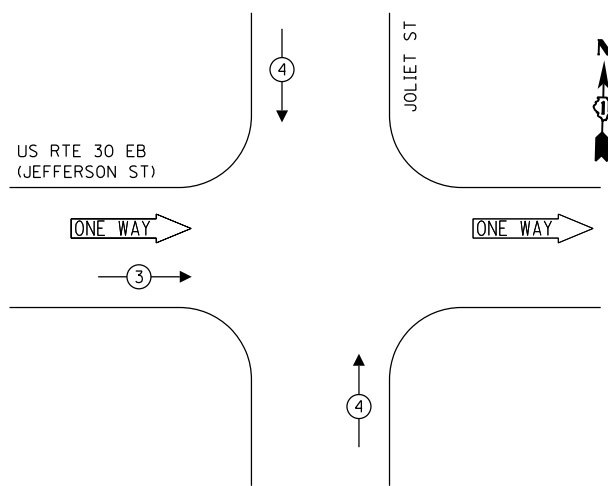
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



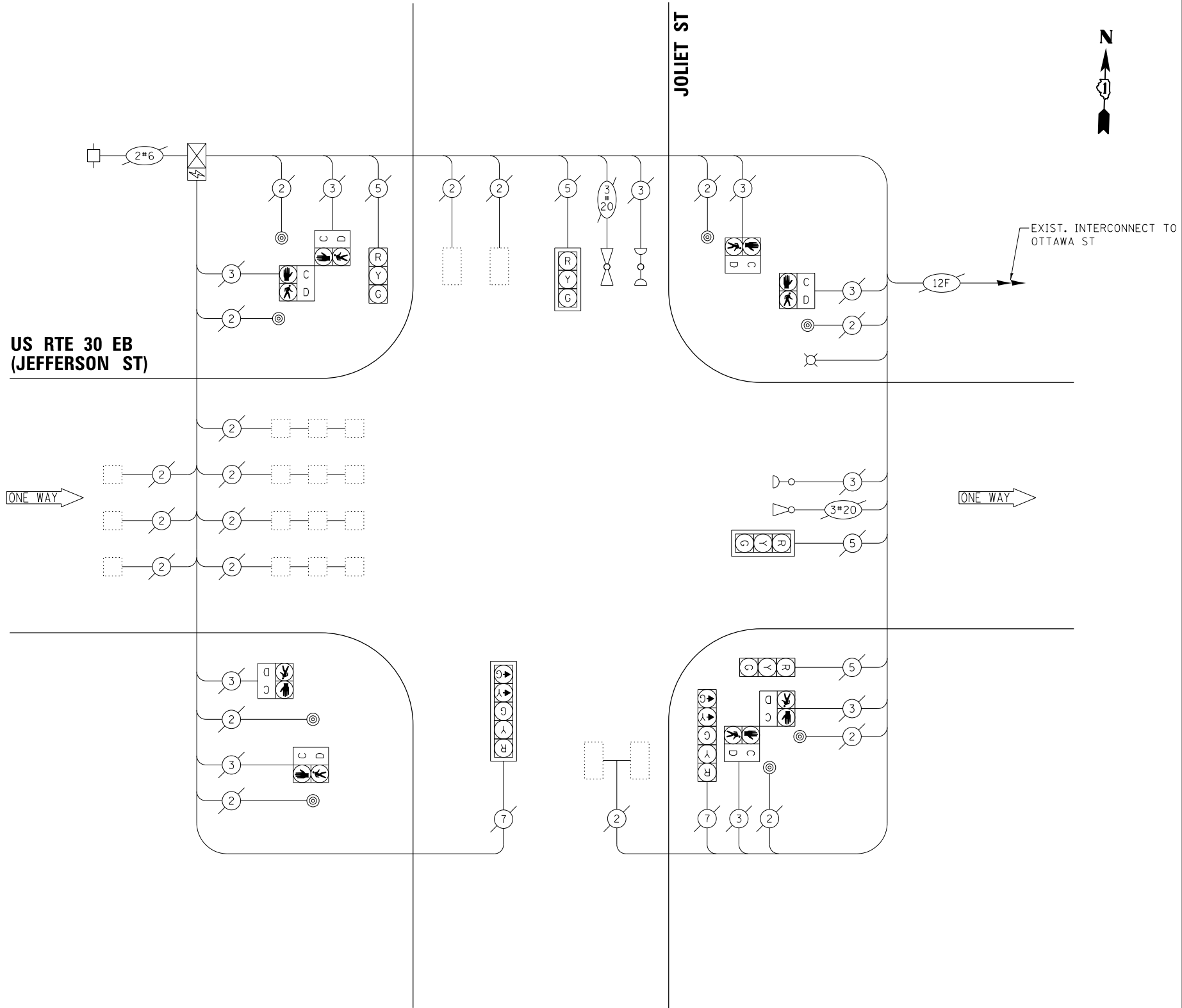
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
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	-	150	100	-
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				360.4

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)

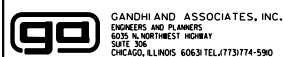
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM,
AND EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 EB (JEFFERSON ST) AT JOLIET ST

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	51
CONTRACT NO. 62H79				

TS 22528
ECON 121
LOCATION NO. 21

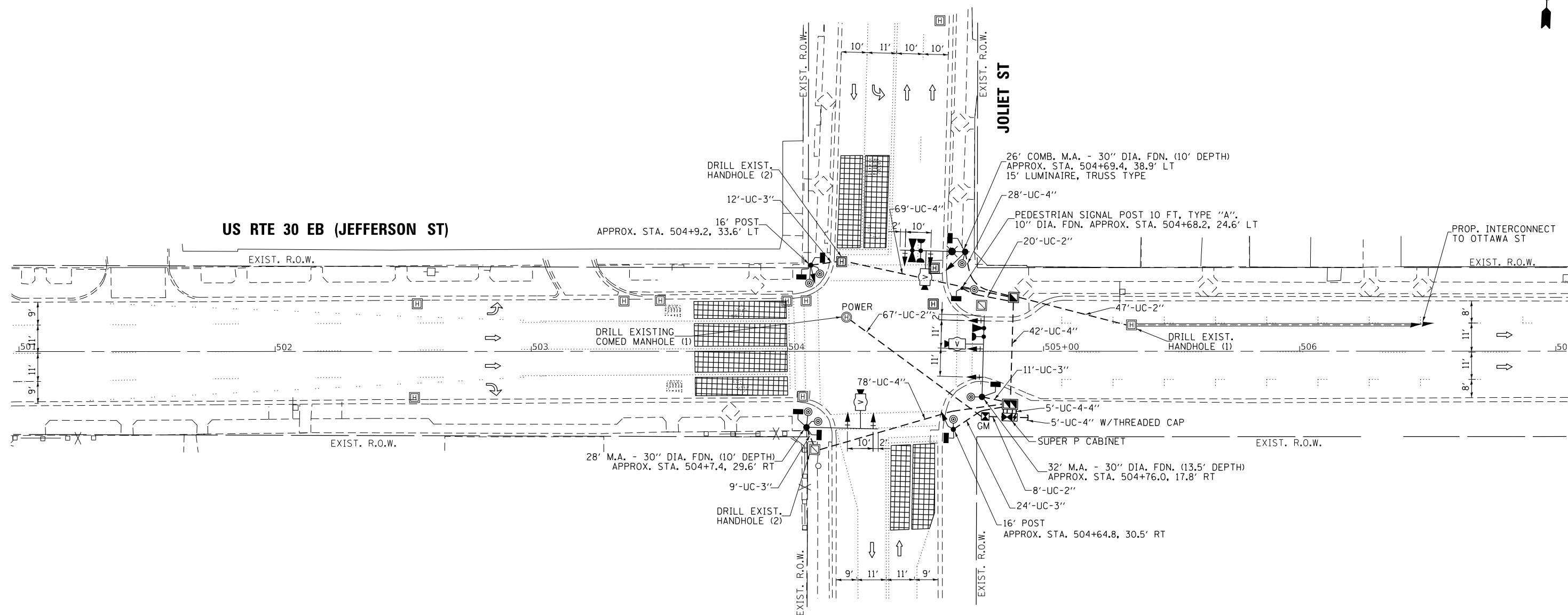
K:\PROJECTS\Projects\2018\DOT Joliet_Roads\Roads\CCOD_Sheets\21 TS 22528_02_Jefferson St-Joliet St-TEMP.Caddgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / 1"	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

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

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



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GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0001' / 1" =	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

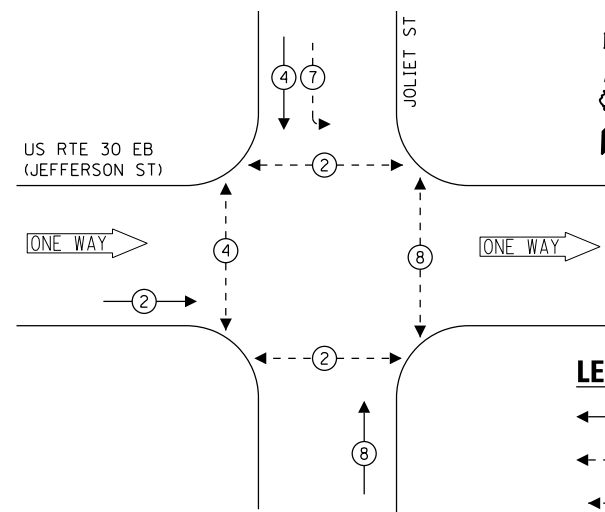
**TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 30 EB (JEFFERSON ST) AT JOLIET ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	52
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

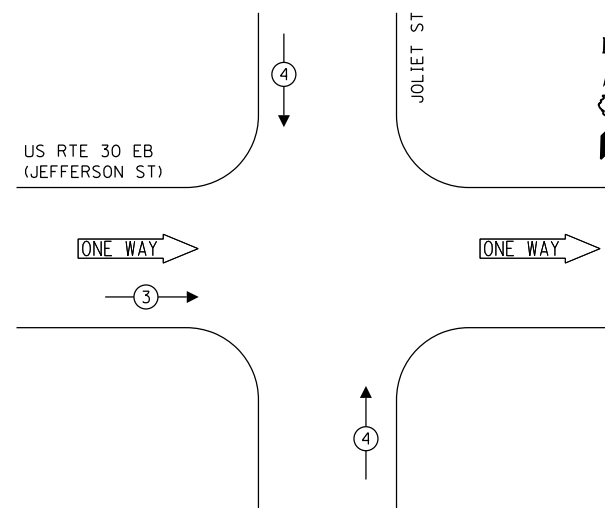
**TS 22528
ECON 121
LOCATION NO. 21**

PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ← ⊛ → PROTECTED PHASE
 - ← ⊛ - - PROTECTED/PERMITTED PHASE
 - ← ⊛ → PEDESTRIAN PHASE
 - ← ⊛ OL → OVERLAP

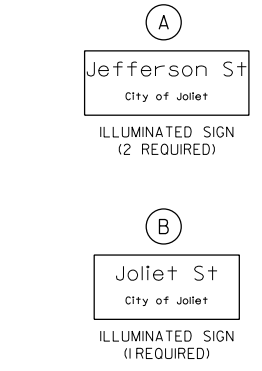
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

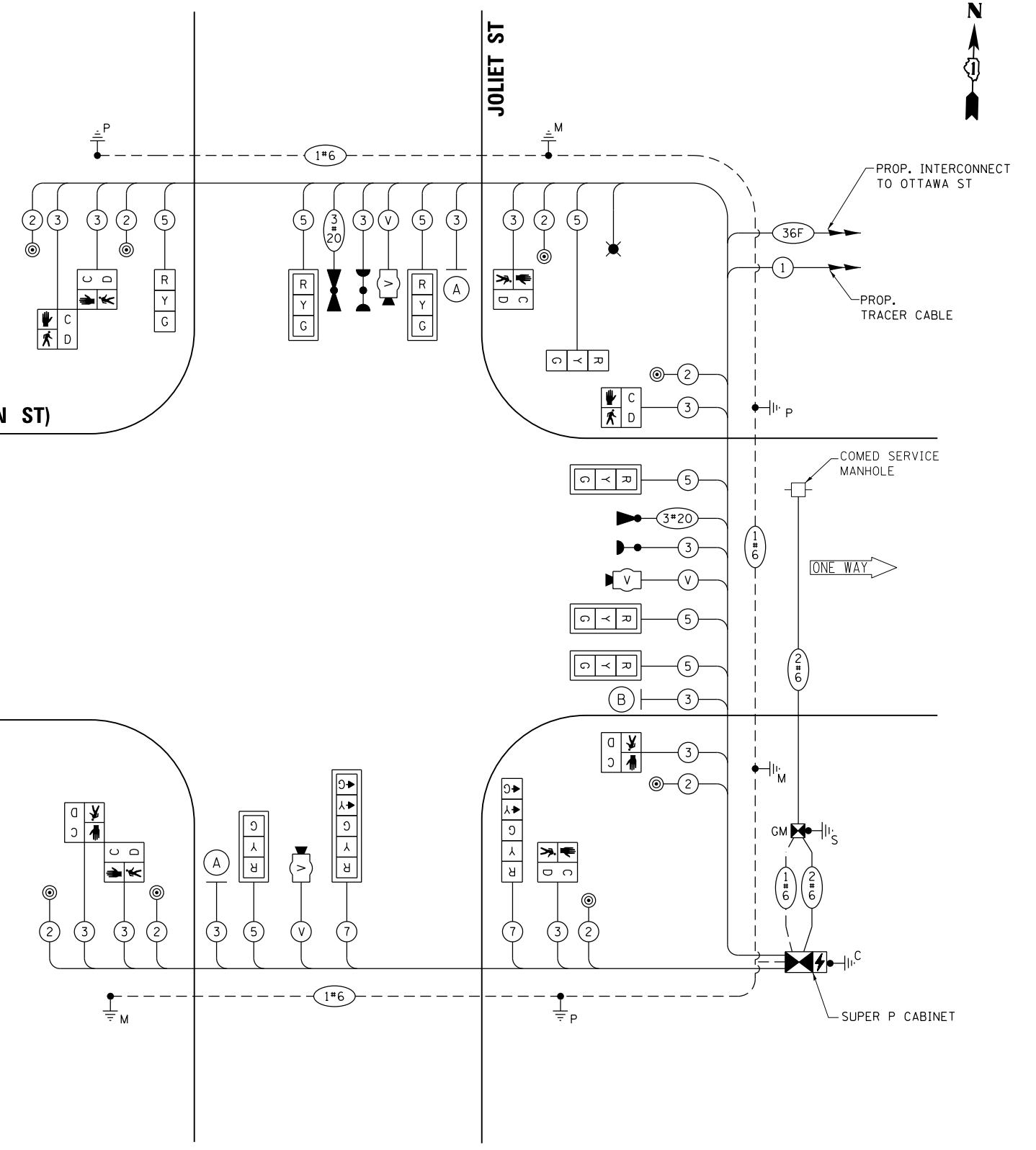
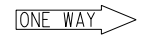
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET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



NOTE: THE SIGNS ARE DOUBLE SIDED.

US RTE 30 EB (JEFFERSON ST)



CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\Roads\CCOD_Sheets\21 TS 22528_04_Jefferson St-Joliet St.CADD



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 EB (JEFFERSON ST) AT JOLIET ST

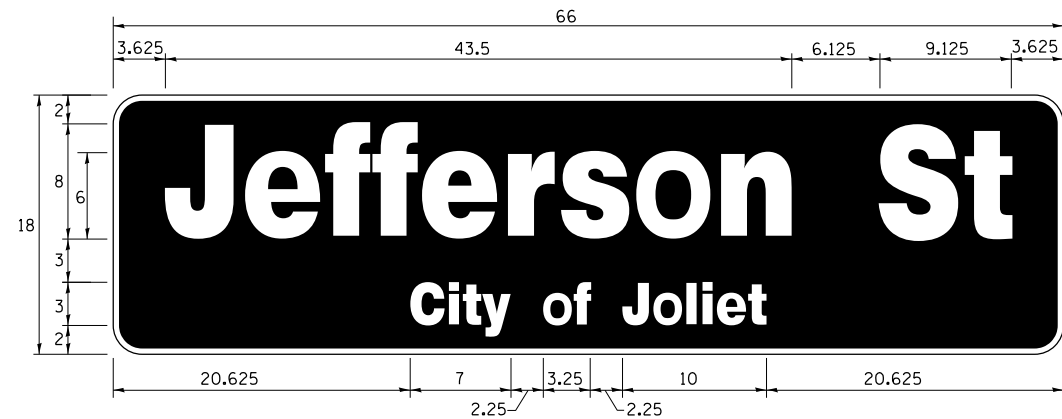
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	53
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 22528
ECON 121
LOCATION NO. 21

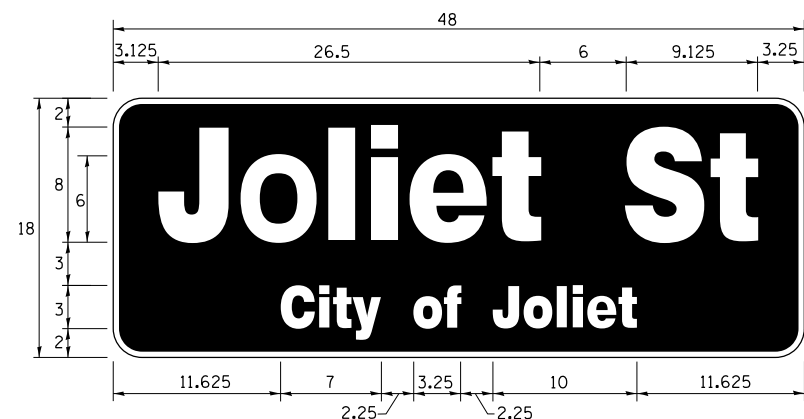
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	2

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.0	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

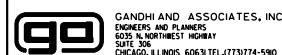
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	1
** DRILLED SHAFT IN ROCK	CU YD	4
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	142
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	56
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	242
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	917
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1200
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	975
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	233
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	117
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	632
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	33.5
DRILL EXISTING HANDHOLE	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	7
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	227
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
* FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	110
PEDESTRIAN SIGNAL POST, 10 FT	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4
TEMPORARY INFORMATION SIGNING	SQ FT	25.7
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	350

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects 2018\DOT Joliet Road\NCDD_Sheets\21 TS 22528_05_Jefferson St-Joliet St-CD2.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISOR -
PLOT DATE = \$DATE*	CHECKED - PKG	REVISOR -
	DATE - 2/6/2020	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED LED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 30 EB (JEFFERSON ST) AT JOLIET ST**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	54
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22528
ECON 121
LOCATION NO. 21**

REMOVAL AND RELOCATION NOTES:

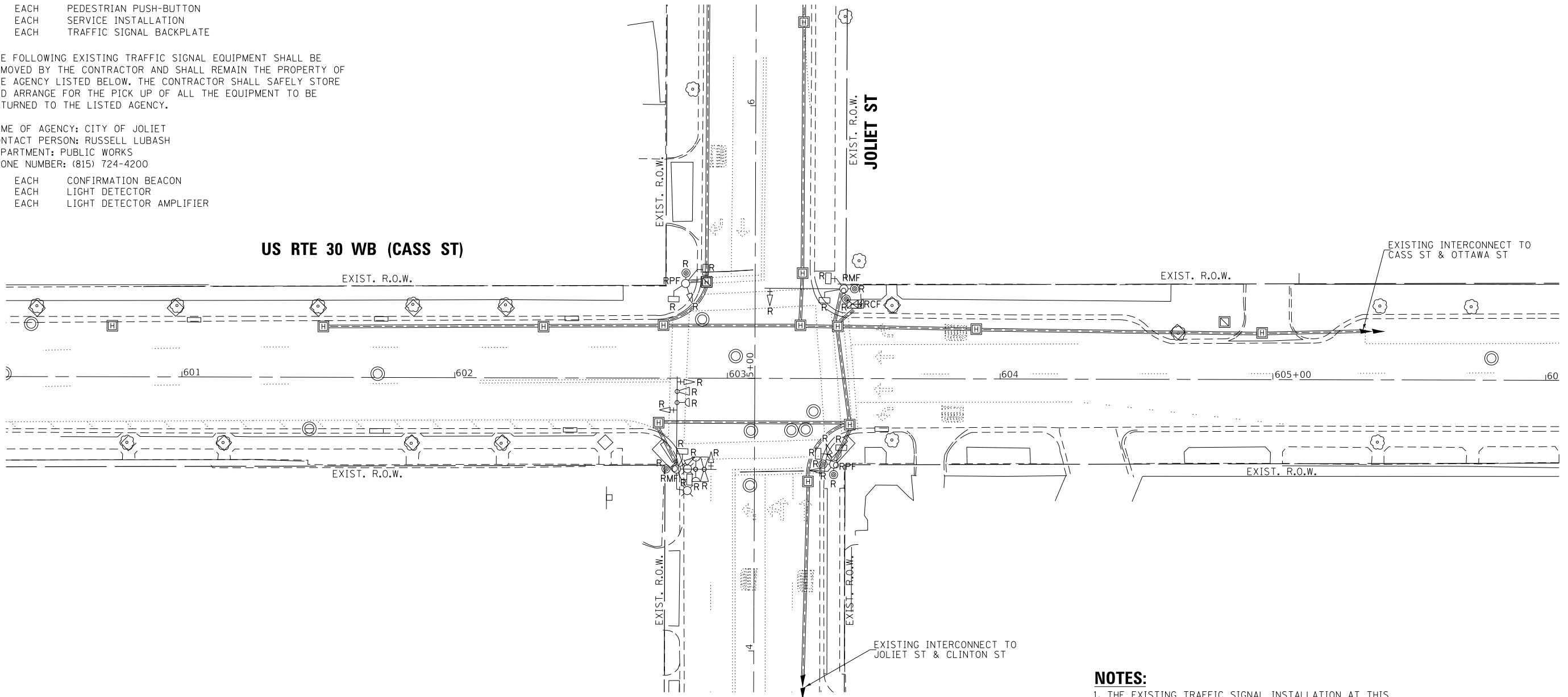
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POST W/ DUAL MAST ARM
- 2 EACH TRAFFIC SIGNAL POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

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



NOTES:

1. THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THIS INTERSECTION SHALL REMAIN IN OPERATION UNTIL NEW TRAFFIC SIGNAL INSTALLATION IS IN PLACE AND IN OPERATION. THE EXISTING TRAFFIC SIGNAL INSTALLATION SHALL BE REMOVED AFTER THE NEW SIGNAL INSTALLATION BECOMES OPERATIONAL.
2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

K:\PROJECTS\Projects\2018\DDT Joliet_Roads\CADD_Sheets\23 TS_22534_01.Cass St-Joliet St_TEMP_INT.dgn

GO GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

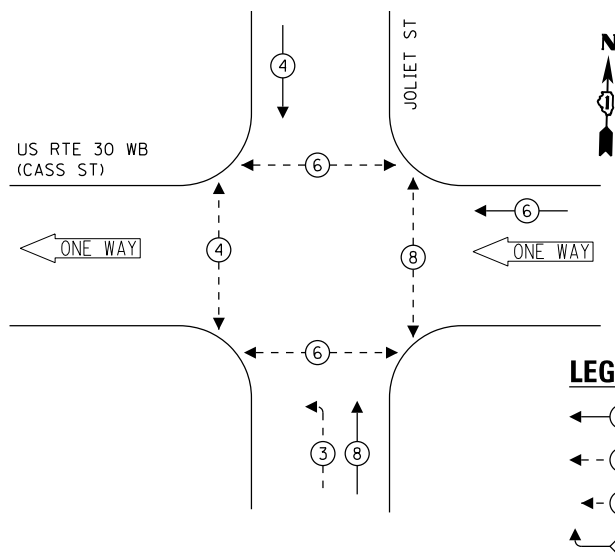
**EXISTING TRAFFIC SIGNAL PLAN
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 30 WB (CASS ST) AT JOLIET ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	55
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 22534
 ECON 121
 LOCATION NO. 23**

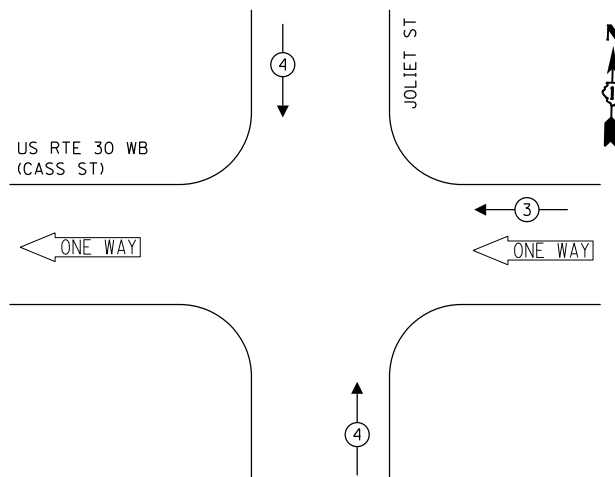
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

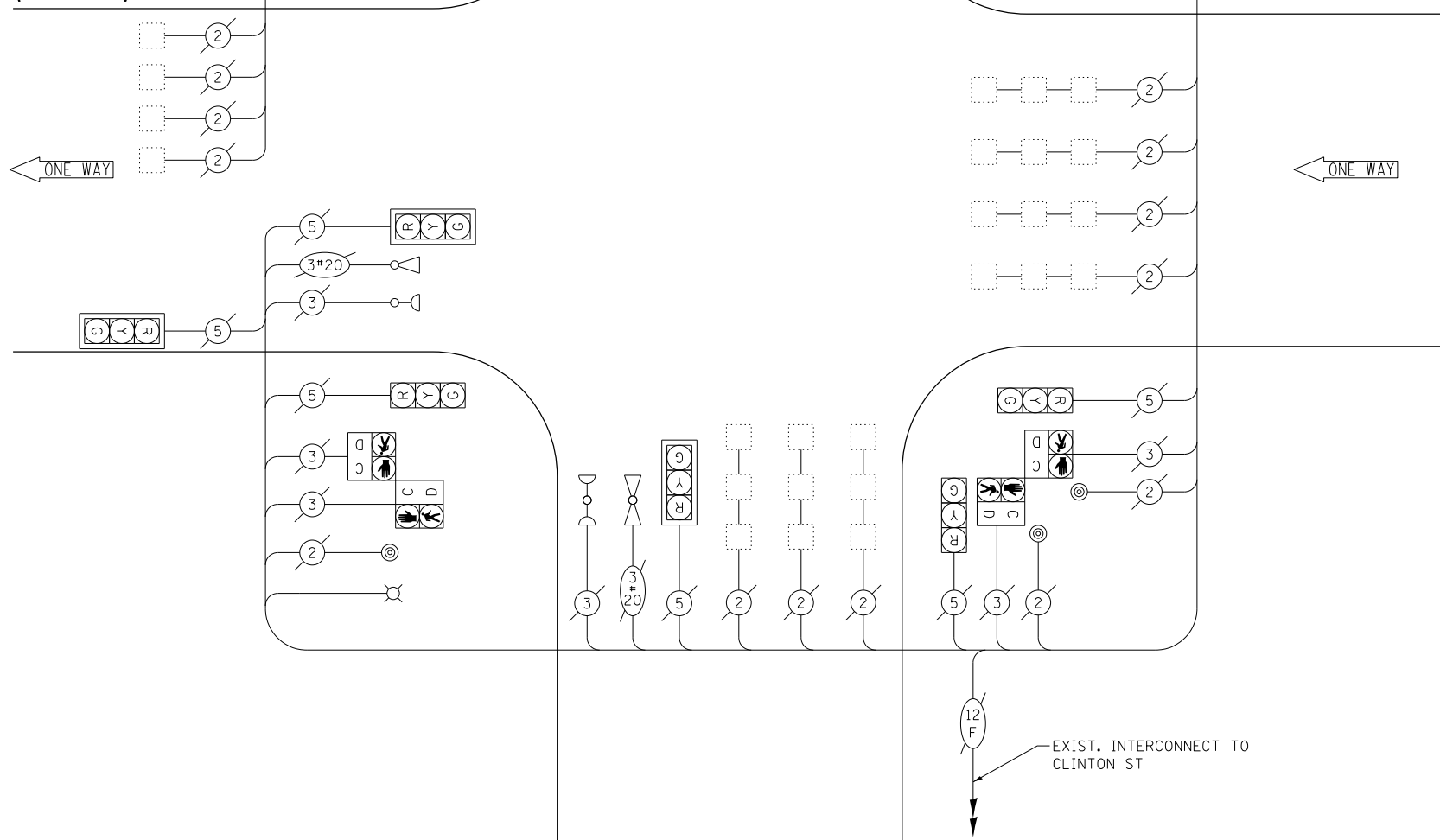
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	360.4

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:

US RTE 30 WB (CASS ST)



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM,
AND EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 WB (CASS ST) AT JOLIET ST

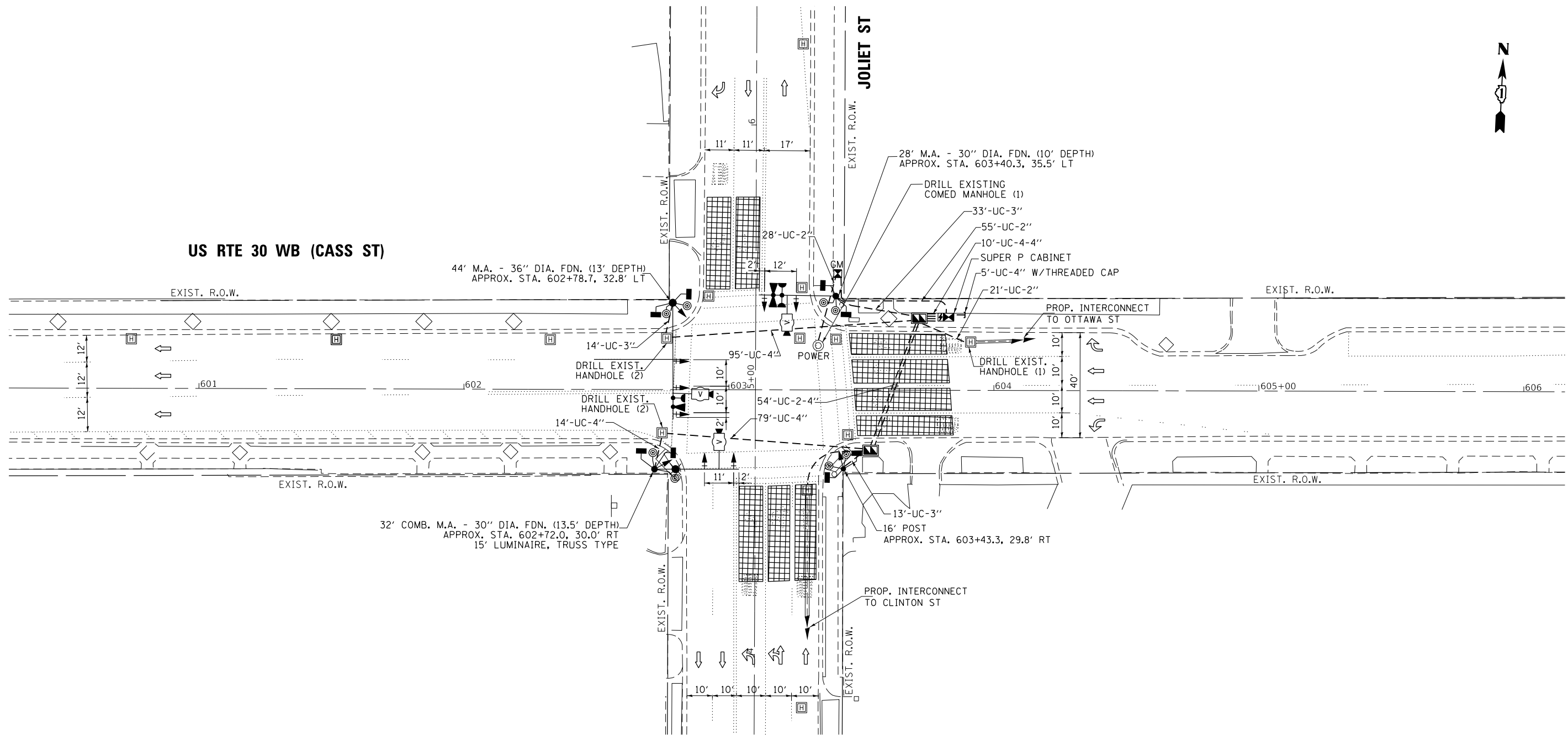
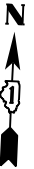
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	56
			CONTRACT NO. 62H79	

TS 22534
ECON 121
LOCATION NO. 23

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

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -



FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD\Sheets\23 TS_22534_03.Cass St-Joliet St-INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0001' / 1"	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

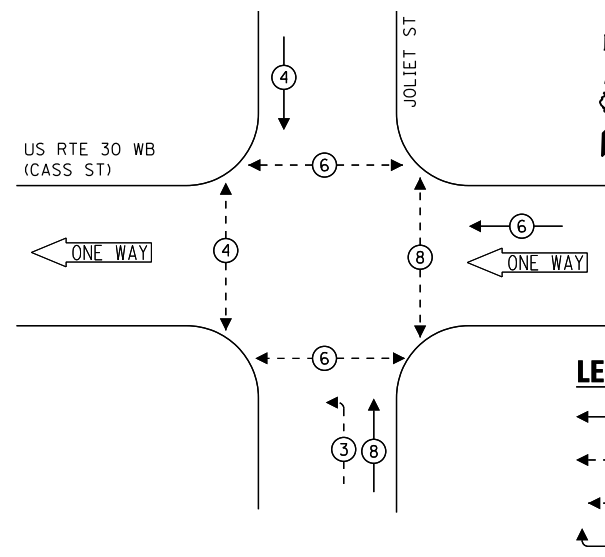
TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 30 WB (CASS ST) AT JOLIET ST

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

TS 22534
ECON 121
LOCATION NO. 23

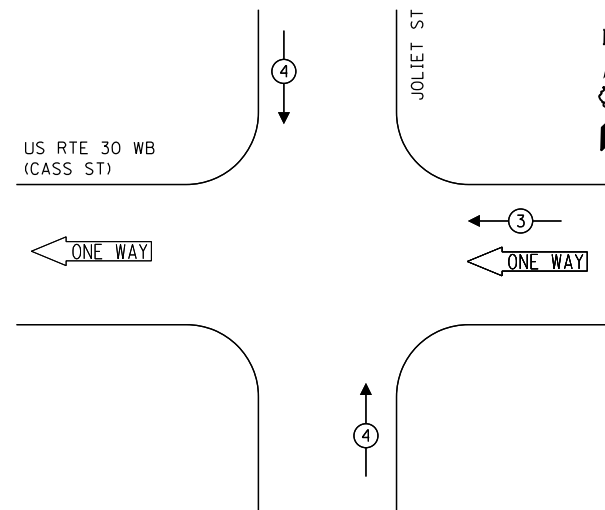
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	57
			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



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

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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:

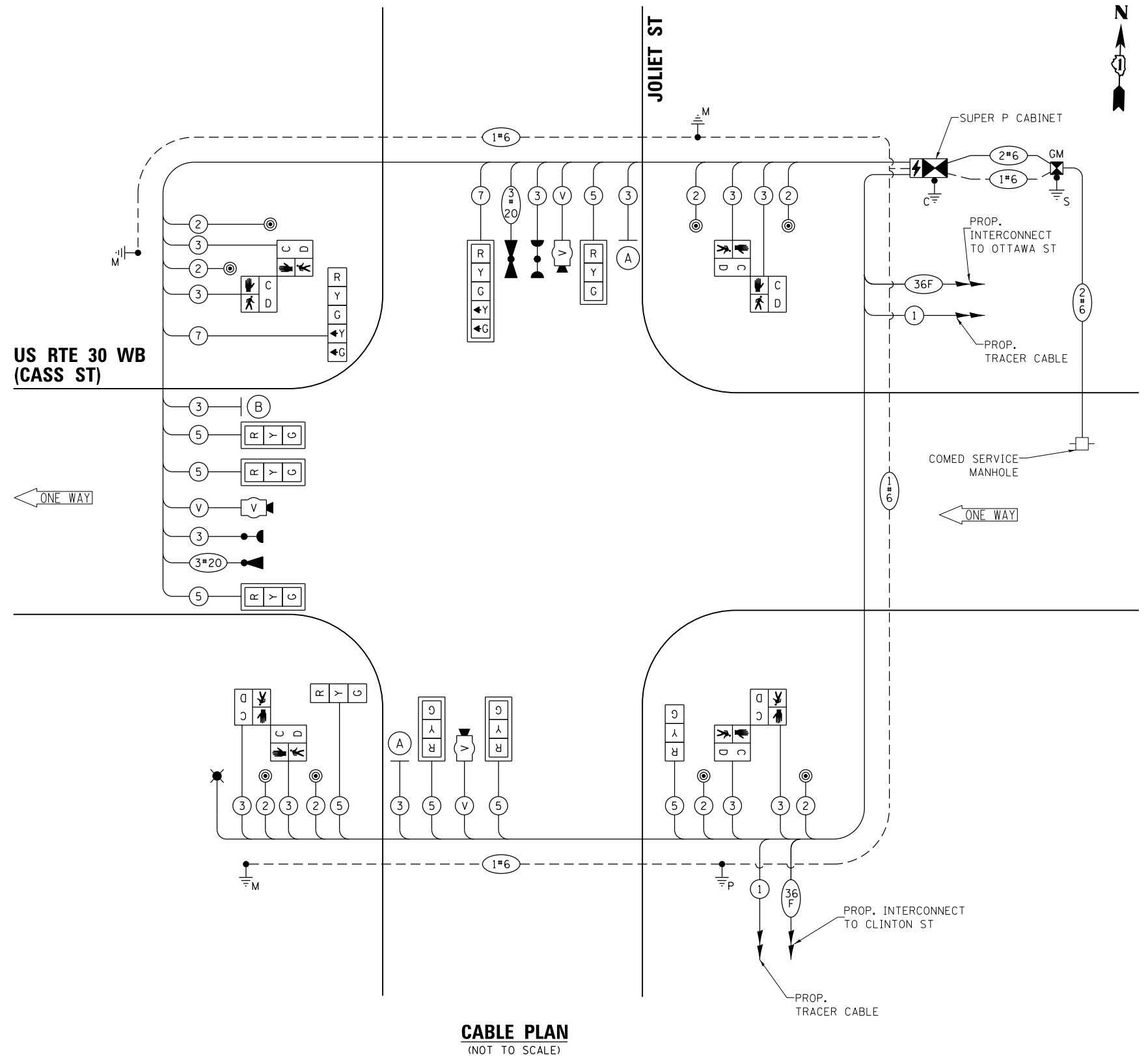
CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

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

(A)
Cass St
City of Joliet
ILLUMINATED SIGN
(2 REQUIRED)

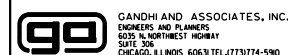
(B)
Joliet St
City of Joliet
ILLUMINATED SIGN
(1 REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\Roads\CCOD_Sheets\23 TS_22534_04_Cass St-Joliet St-CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 WB (CASS ST) AT JOLIET ST**

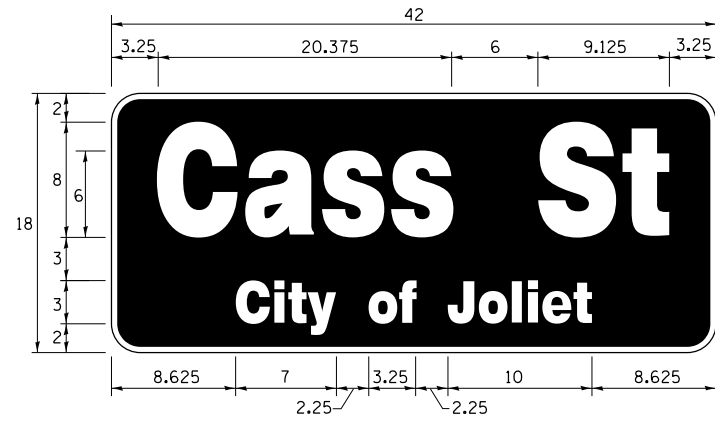
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	58
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22534
ECON 121
LOCATION NO. 23**

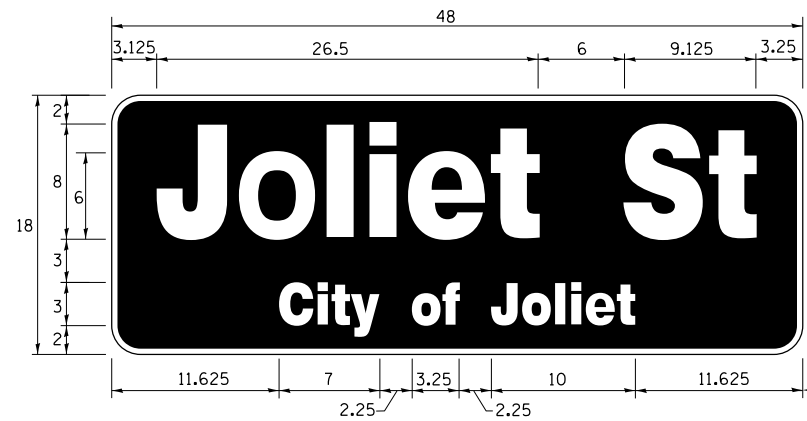
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	5.25	LED	N/A	2

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.0	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

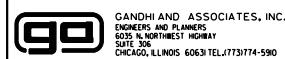
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	1.5
** DRILLED SHAFT IN ROCK	CU YD	4
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	104
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	341
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1104
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1471
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1492
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	274
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	125
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	520
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	7
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	311
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
* SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	130
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY INFORMATION SIGNING	SO FT	25.7
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	499

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects 2018\DDOT Joliet Road\Road\CCDD\Sheets\23 TS-22534_05.Cass St-Joliet St-CD2.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 48.0000' / in.	DRAWN - EA, AV	REVISIED -
PLOT DATE = \$DATE*	CHECKED - PKG	REVISIED -
	DATE - 2/6/2020	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED LED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 30 WB (CASS ST) AT JOLIET ST**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	59
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22534
ECON 121
LOCATION NO. 23**

REMOVAL AND RELOCATION NOTES:

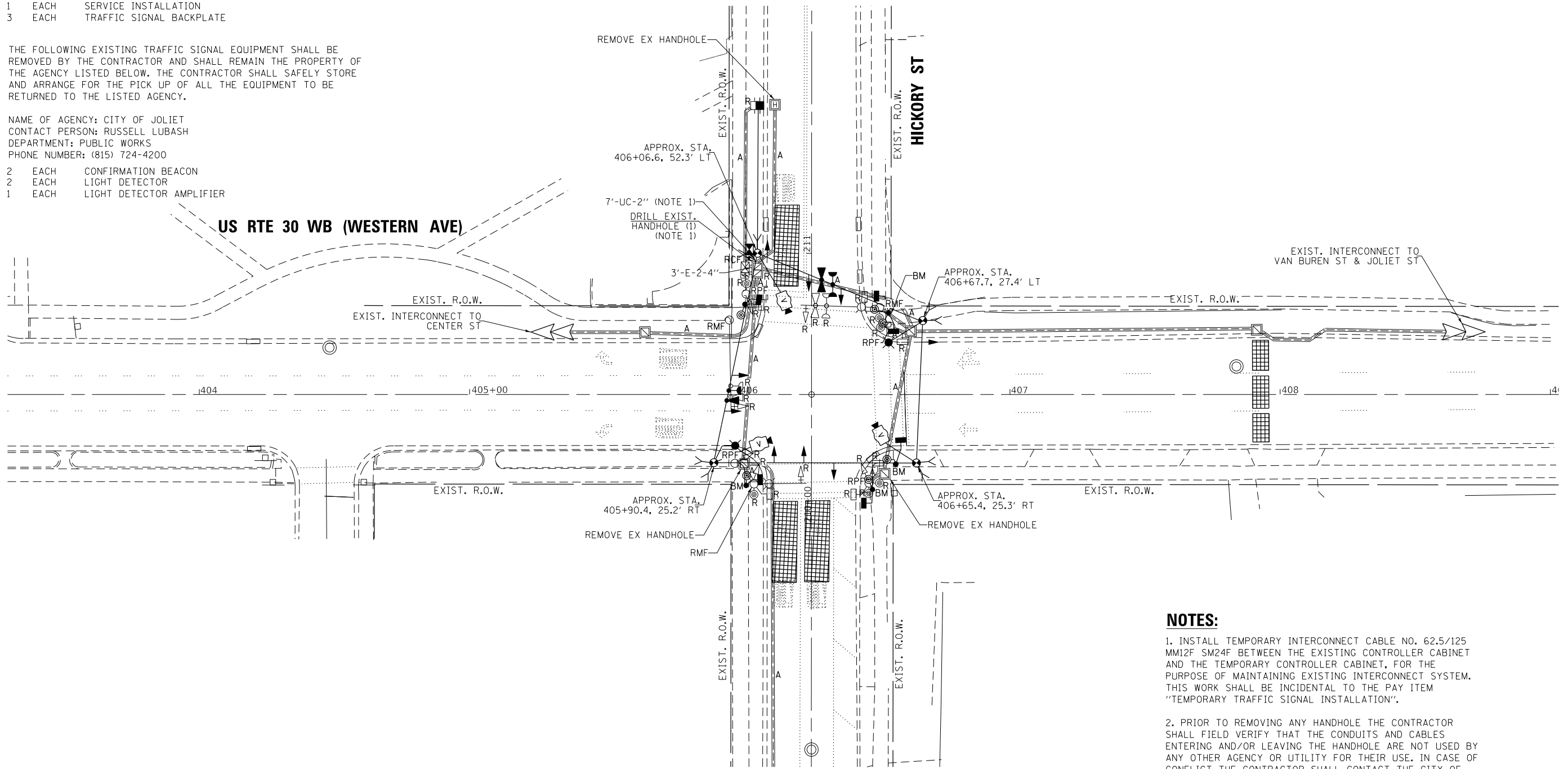
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POST
- 2 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 7 EACH 3-SECTION SIGNAL HEAD
- 6 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 3 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

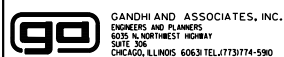
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



NOTES:

1. INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 MM12F SM24F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET, FOR THE PURPOSE OF MAINTAINING EXISTING INTERCONNECT SYSTEM. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

K:\PROJECTS\Projects\2018\DDOT\Joliet_Roads\CCOD\Sheets\24 TS_22533_01_Western Ave-Hickory St-TEMP_INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

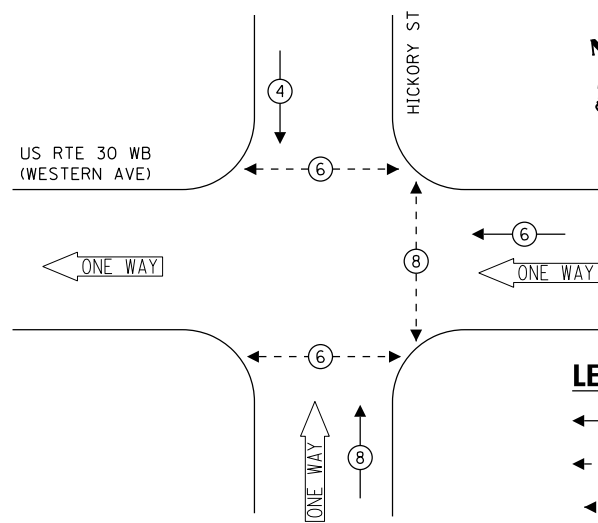
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 30 WB (WESTERN AVE) AT HICKORY ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	60
			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 22533
 ECON 121
 LOCATION NO. 24**

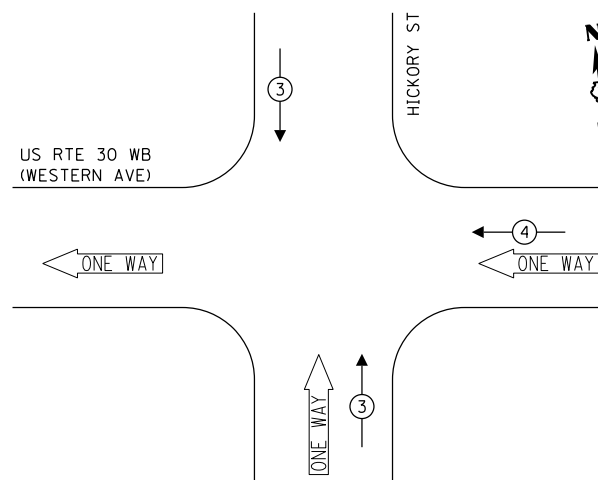
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← (⊛) ← PROTECTED PHASE
- ← (⊛) ← PROTECTED/PERMITTED PHASE
- ← (⊛) ← PEDESTRIAN PHASE
- ← (⊛) ← OVERLAP

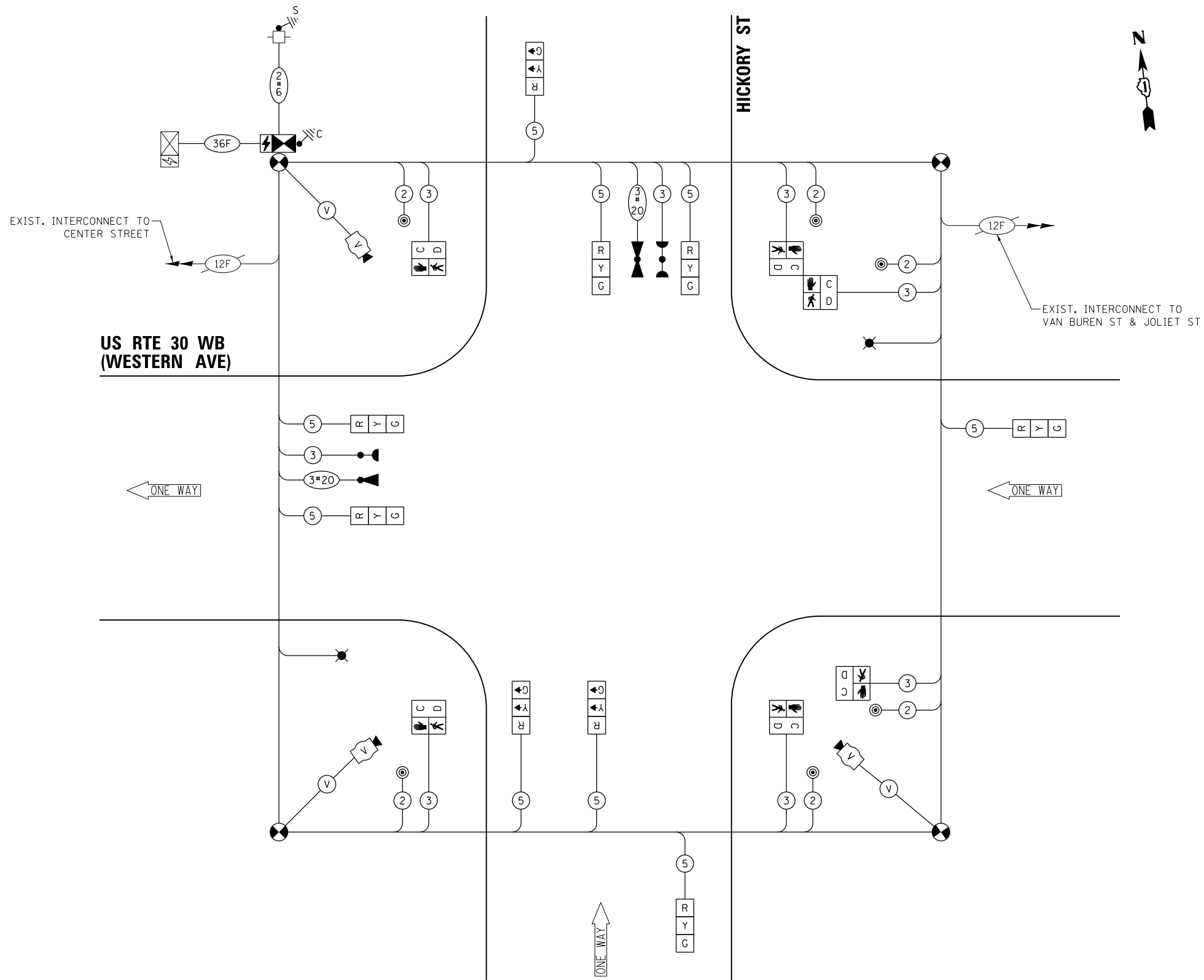
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



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	6.0
(GREEN)	9	12	45	48.6
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
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	268	50	268.0
			TOTAL =	767.1

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)

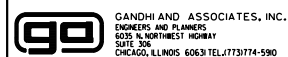
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
 AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 US RTE 30 WB (WESTERN AVE) AT HICKORY ST

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	61
			CONTRACT NO. 62H79	

TS 22533
 ECON 121
 LOCATION NO. 24

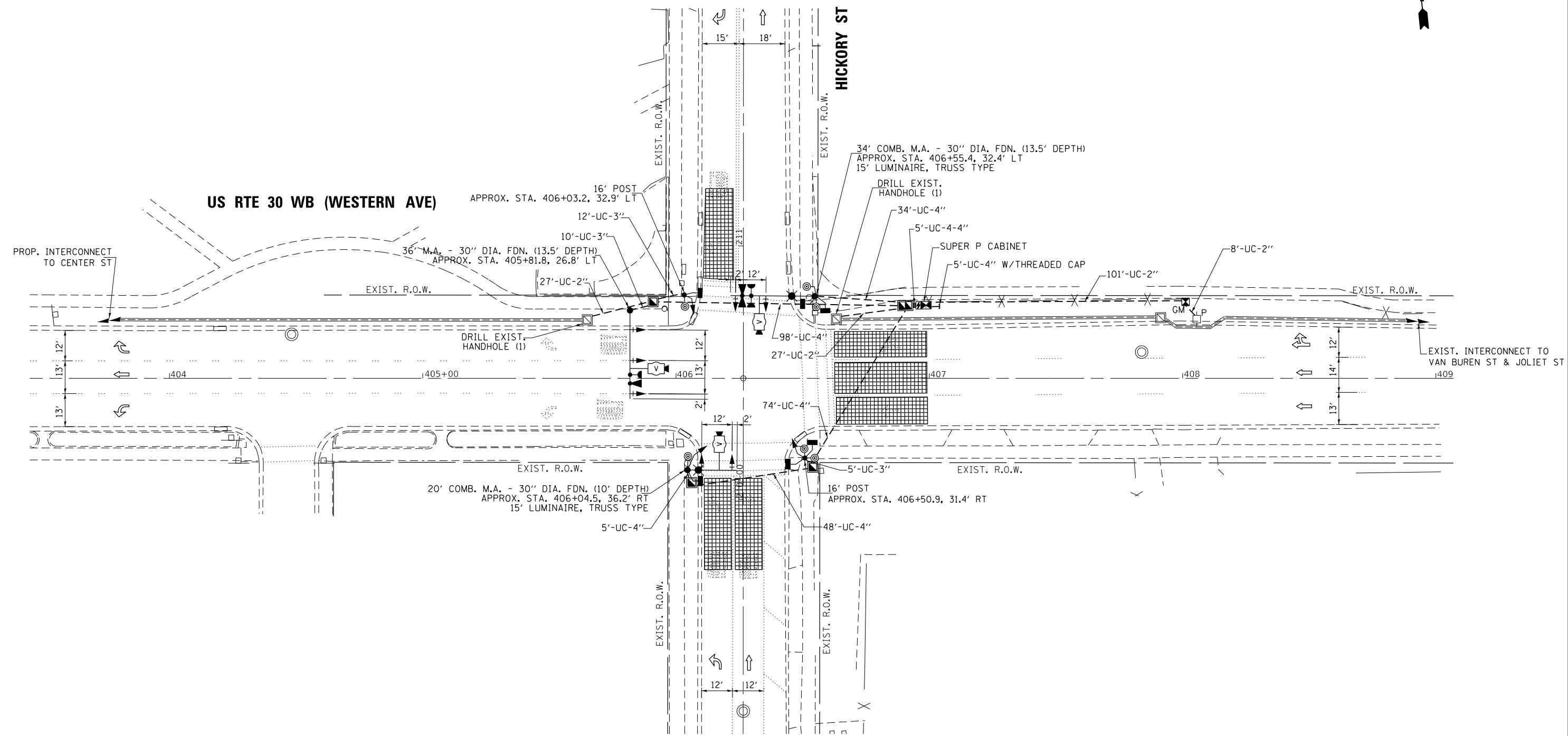
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PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

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

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



FILE NAME = K:\PROJECTS\Projects 2018\DDOT Joliet_Roads\KCODD_Sheets\24 TS_22533_03_Western Ave-Hickory St.LIN.dgn



GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

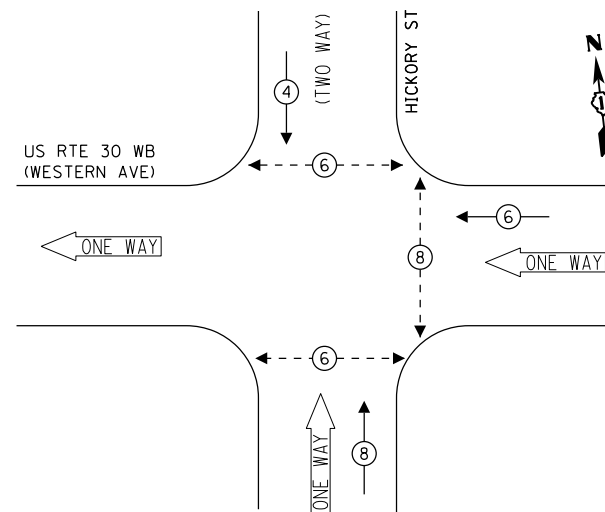
TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 30 WB (WESTERN AVE) AT HICKORY ST

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	62
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

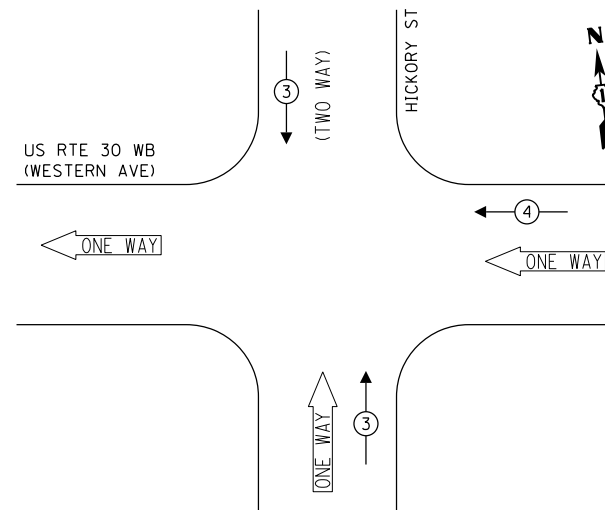
TS 22533
ECON 121
LOCATION NO. 24

PROPOSED CONTROLLER SEQUENCE



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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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.

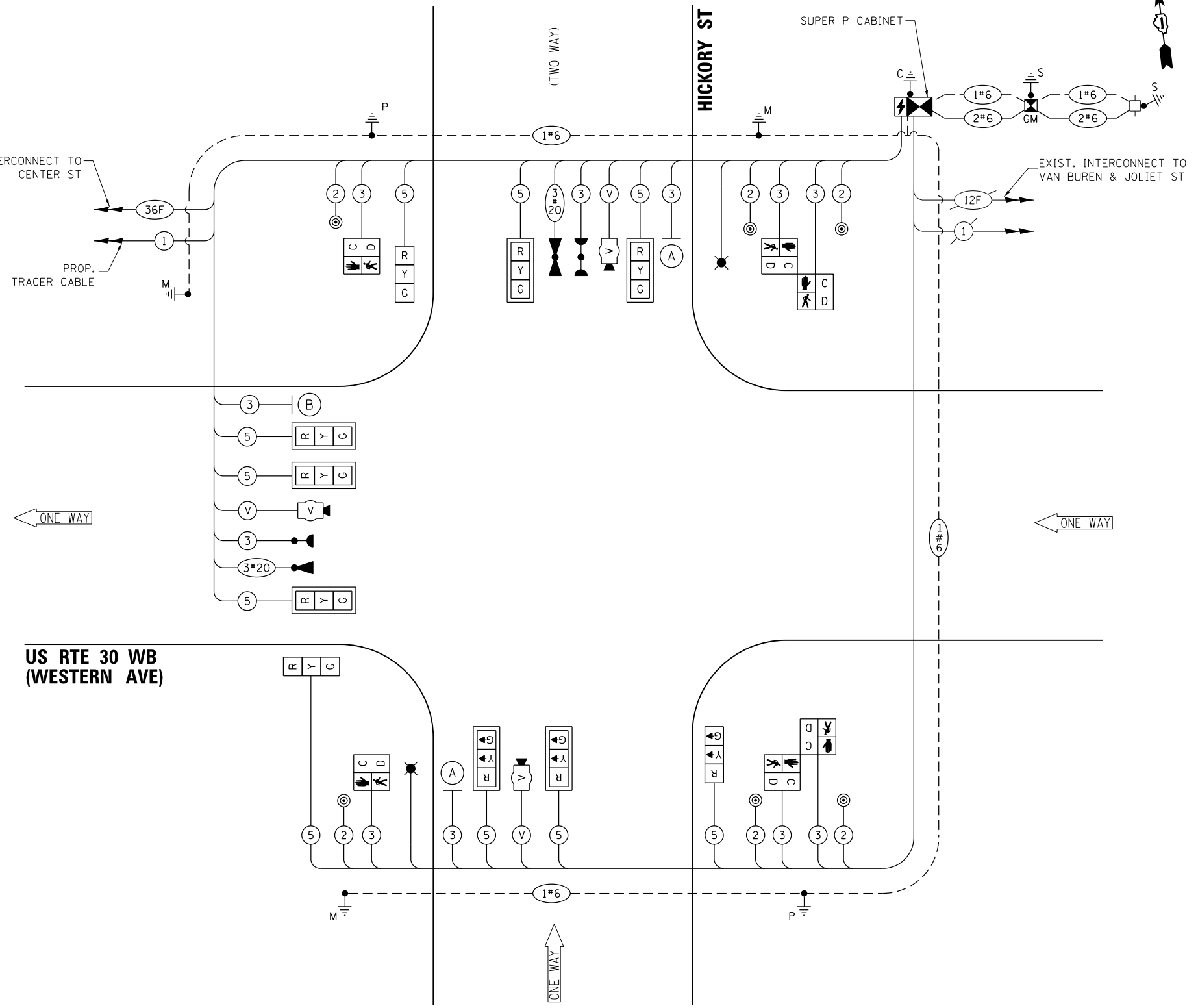
PROP. INTERCONNECT TO CENTER ST

PROP. TRACER CABLE

ONE WAY

US RTE 30 WB
(WESTERN AVE)

CABLE PLAN
(NOT TO SCALE)



FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\Roads\CCOD_Sheets\24 TS_22533_04_Western Ave-Hickory St.Cddgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
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	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

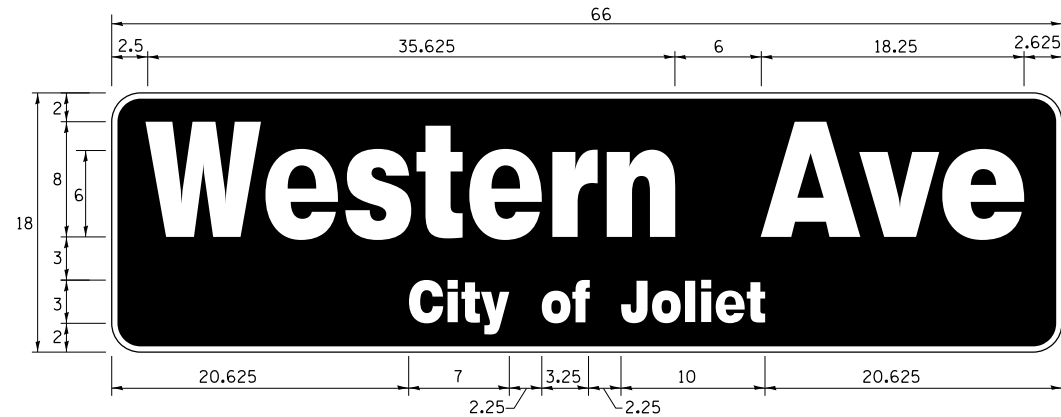
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 WB (WESTERN AVE) AT HICKORY ST
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	63
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 22533
ECON 121
LOCATION NO. 24

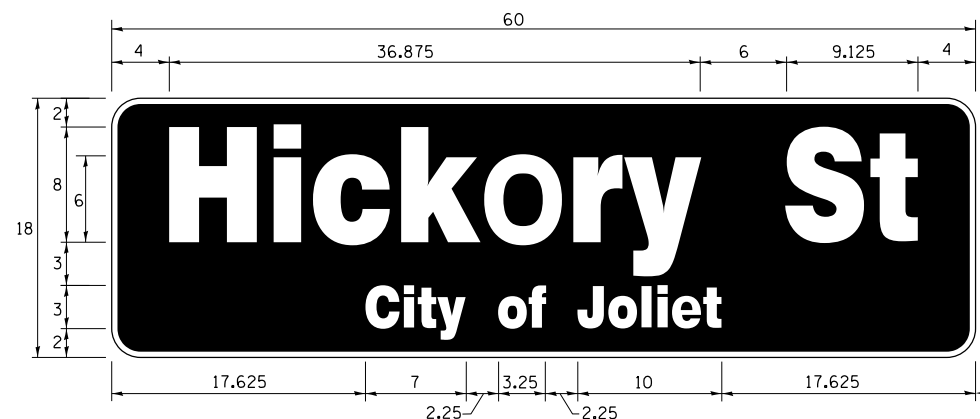
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	2

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	7.5	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	1.75
** DRILLED SHAFT IN ROCK	CU YD	6.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	163
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	27
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	284
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	846
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1041
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1615
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	159
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	540
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	37
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	7
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	6
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	295
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
* FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
* SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	120
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY INFORMATION SIGNING	SO FT	25.7
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	452

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR TEMPORARY WOOD POLES, CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects 2018\DOT Joliet_Roads\CADD_Sheets\24 TS-22533_05.Western Ave-Hickory St.C02.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / 1" =	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED LED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 30 WB (WESTERN AVE) AT HICKORY ST**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	64
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22533
ECON 121
LOCATION NO. 24**



REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 2 EACH TRAFFIC SIGNAL POST
- 5 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 3 EACH TRAFFIC SIGNAL BACKPLATE

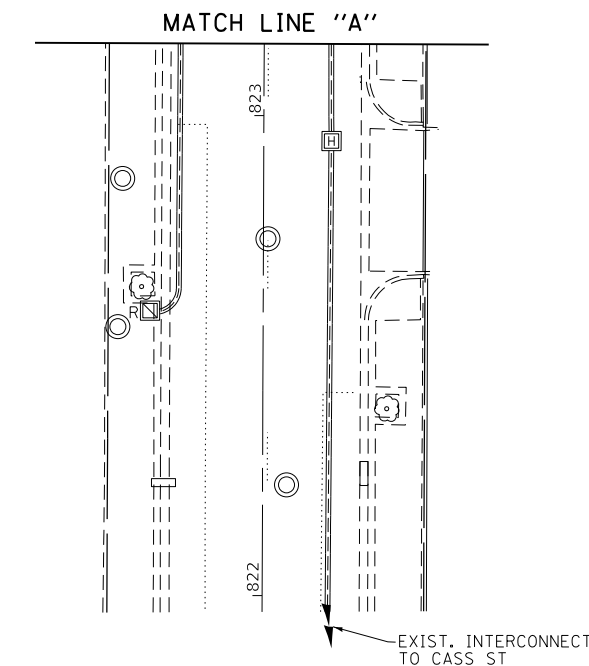
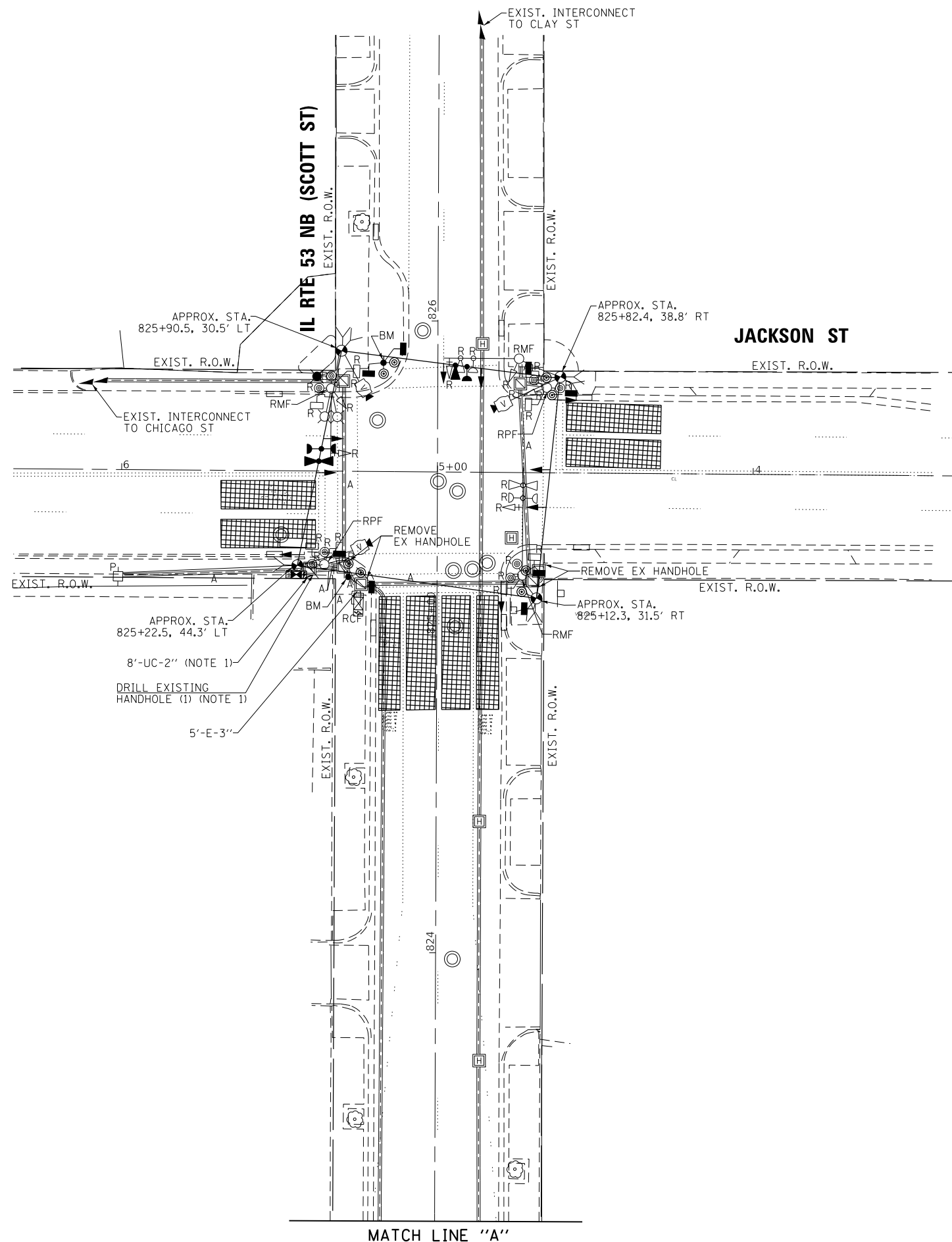
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
CONTACT PERSON: RUSSELL LUBASH
DEPARTMENT: PUBLIC WORKS
PHONE NUMBER: (815) 724-4200

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH STEEL MAST ARM ASSEMBLY AND POST (NORTHEAST CORNER)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CABINET.

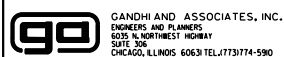
- 1 EACH MASTER CONTROLLER



NOTES:

1. INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 MM12F SM24F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET, FOR THE PURPOSE OF MAINTAINING EXISTING INTERCONNECT SYSTEM. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

K:\PROJECTS\Projects\2018\DDT Joliet_Roads\Roads\CADD_Sheets\302_TS_21802_01_Jackson St-IL 53 Scott St_TEMP_INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
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PLOT DATE = \$DATE\$		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

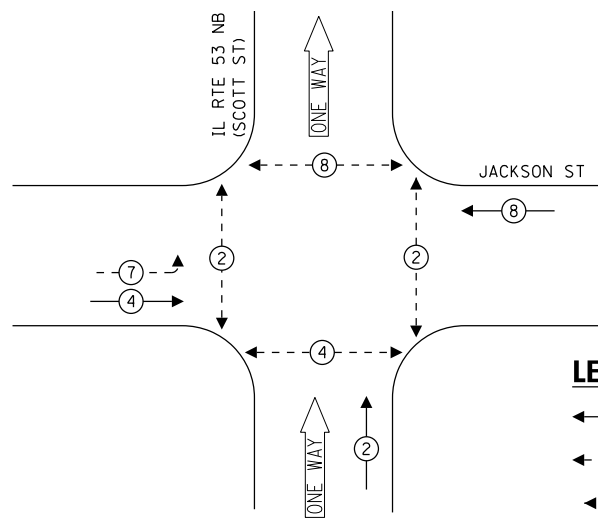
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 53 NB (SCOTT ST) AT JACKSON ST

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	65
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

TS 21802
ECON 122
LOCATION NO. 30

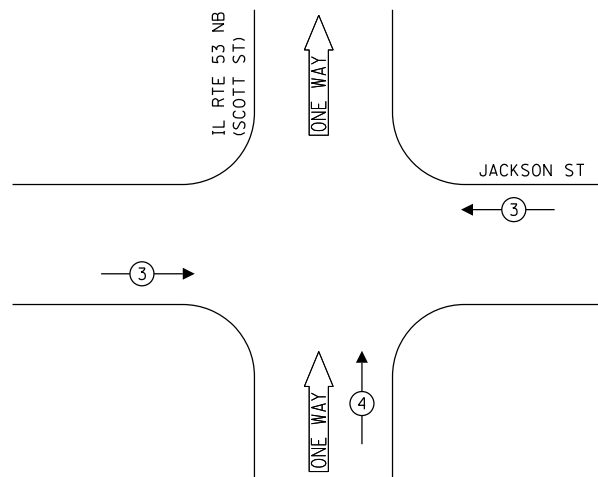
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

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

TEMPORARY 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
VIDEO SYSTEM	1	150	100	150.0
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	1	280	50	140.0
TOTAL =				686.1

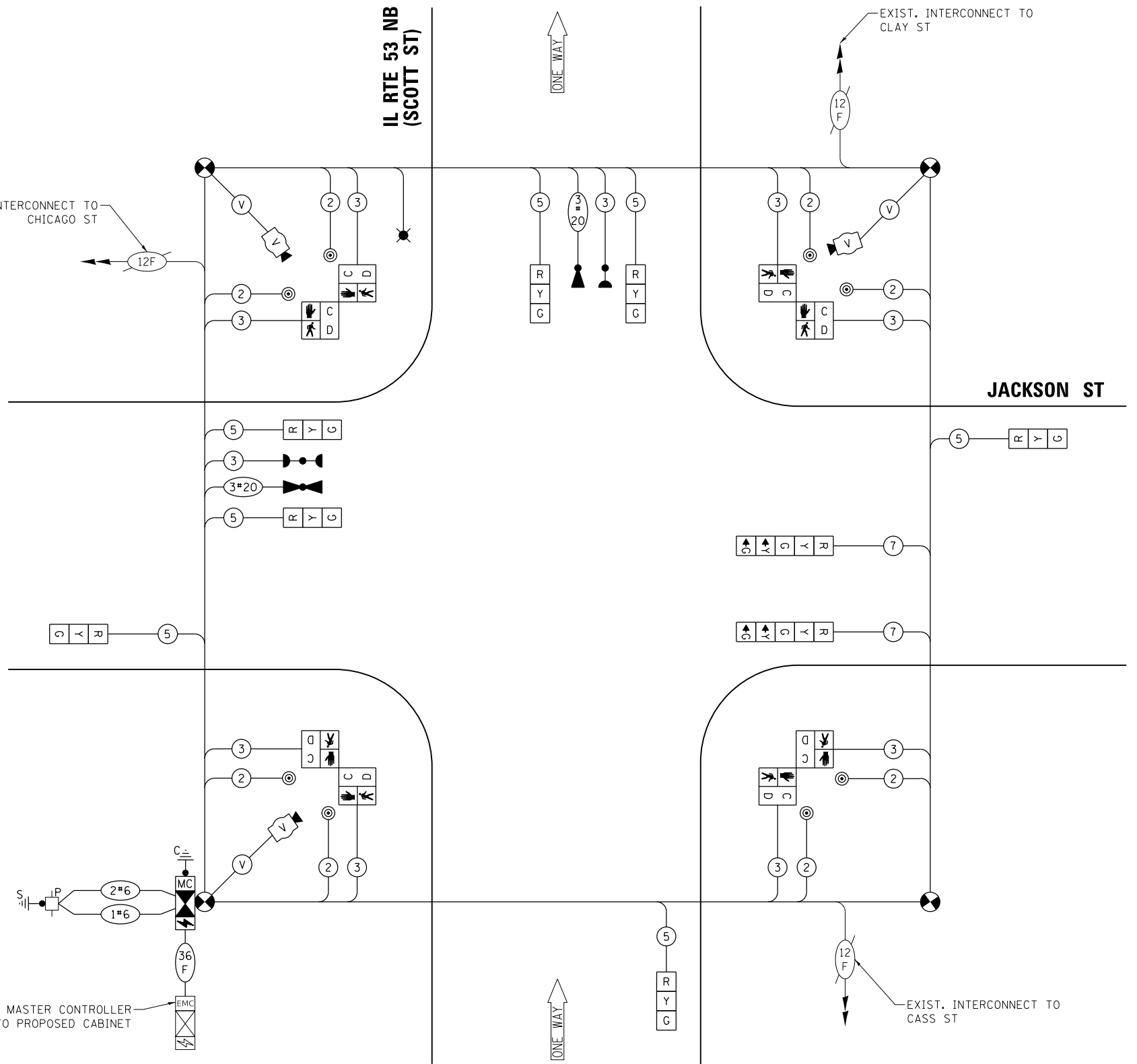
ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

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

EXIST. INTERCONNECT TO CHICAGO ST

RELOCATE EXIST. MASTER CONTROLLER TO PROPOSED CABINET



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

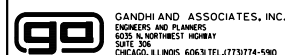
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 53 NB (SCOTT ST) AT JACKSON ST

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	66
				CONTRACT NO. 62H79

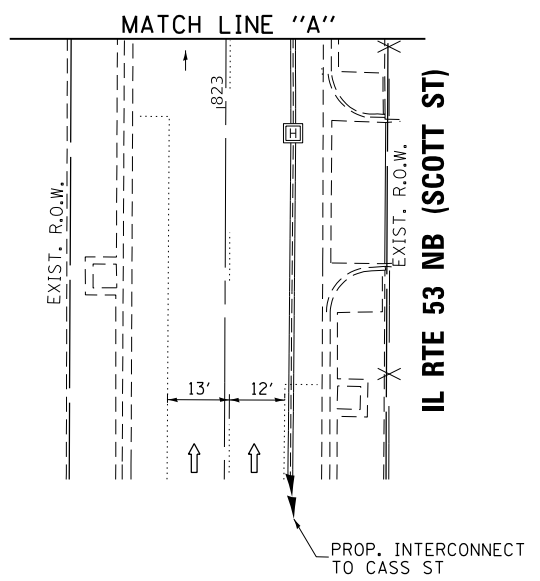
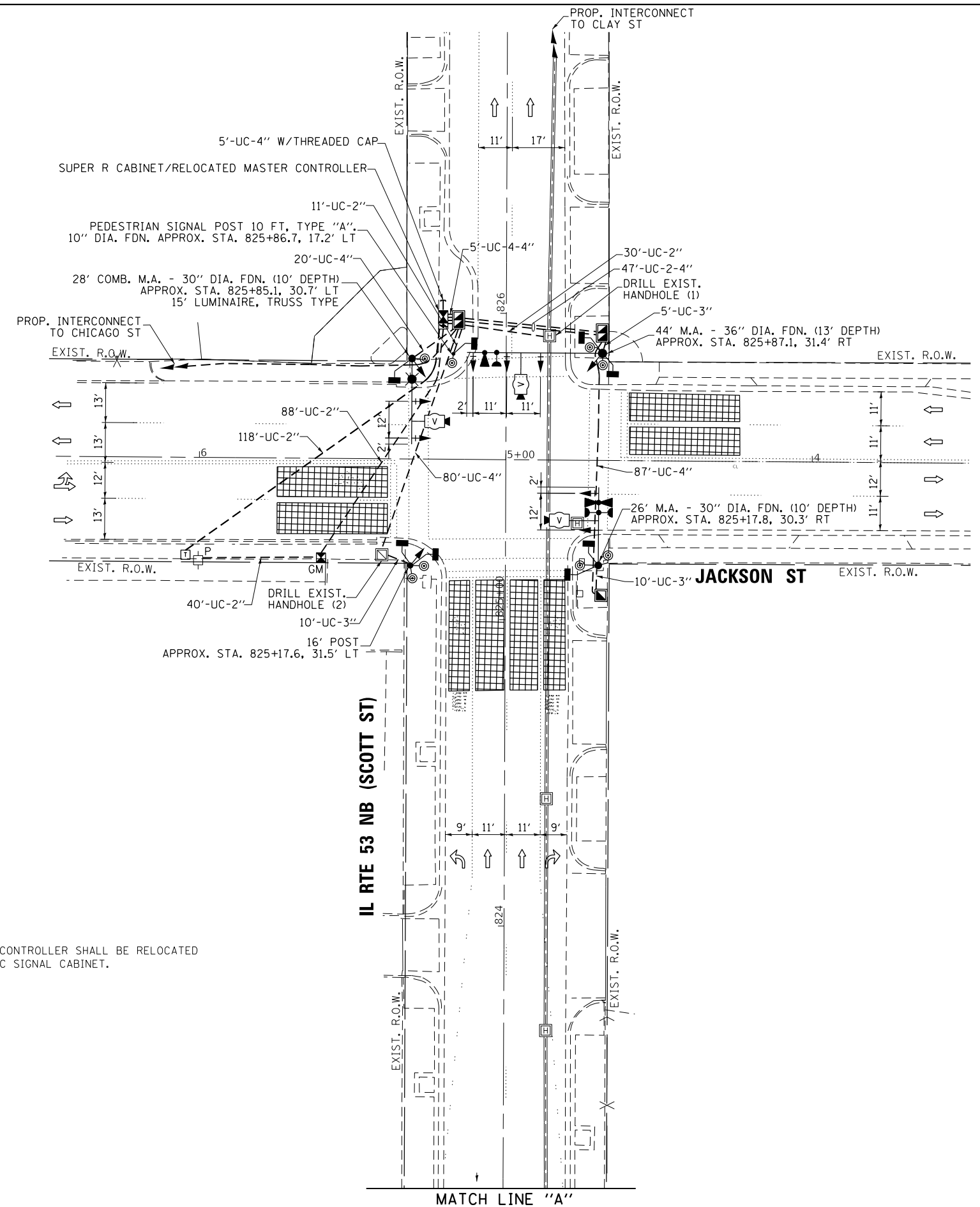
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

FILE NAME = K:\PROJECTS\Projects\2018\DOT\Joliet_Roads\Roads\SCOD_Sheets\02_TS_21802_02_Jackson St-IL 53 Scott St_TEMP_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

TS 21802
ECON 122
LOCATION NO. 30



NOTES:
 1. THE EXISTING MASTER CONTROLLER SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CABINET.

FILE NAME = K:\PROJECTS\Projects 2018\DOT Joliet_Roads\CADD_Sheets\30_TS_21802_03_Jackson St-IL 53 Scott St_INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

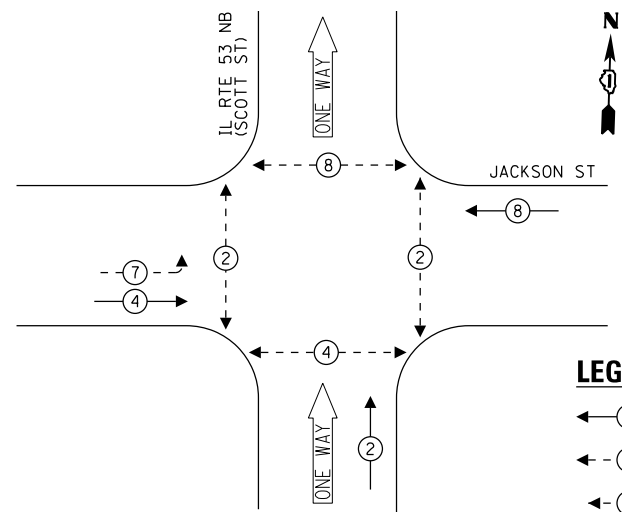
**TRAFFIC SIGNAL MODERNIZATION PLAN
 IL RTE 53 NB (SCOTT ST) AT JACKSON ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	67
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

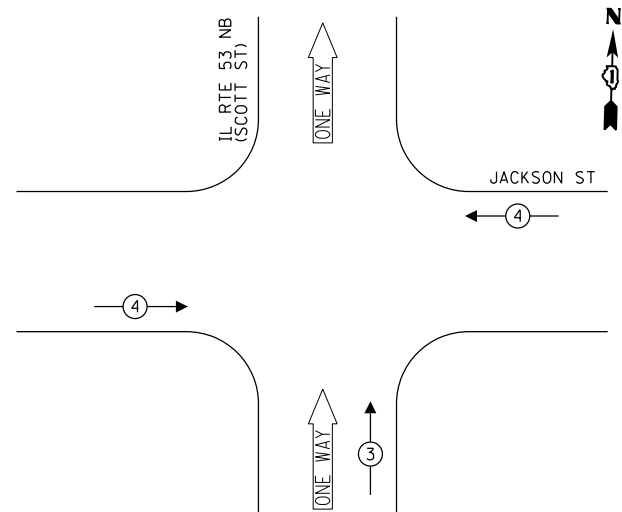
**TS 21802
 ECON 122
 LOCATION NO. 30**

PROPOSED CONTROLLER SEQUENCE



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

PROPOSED 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:

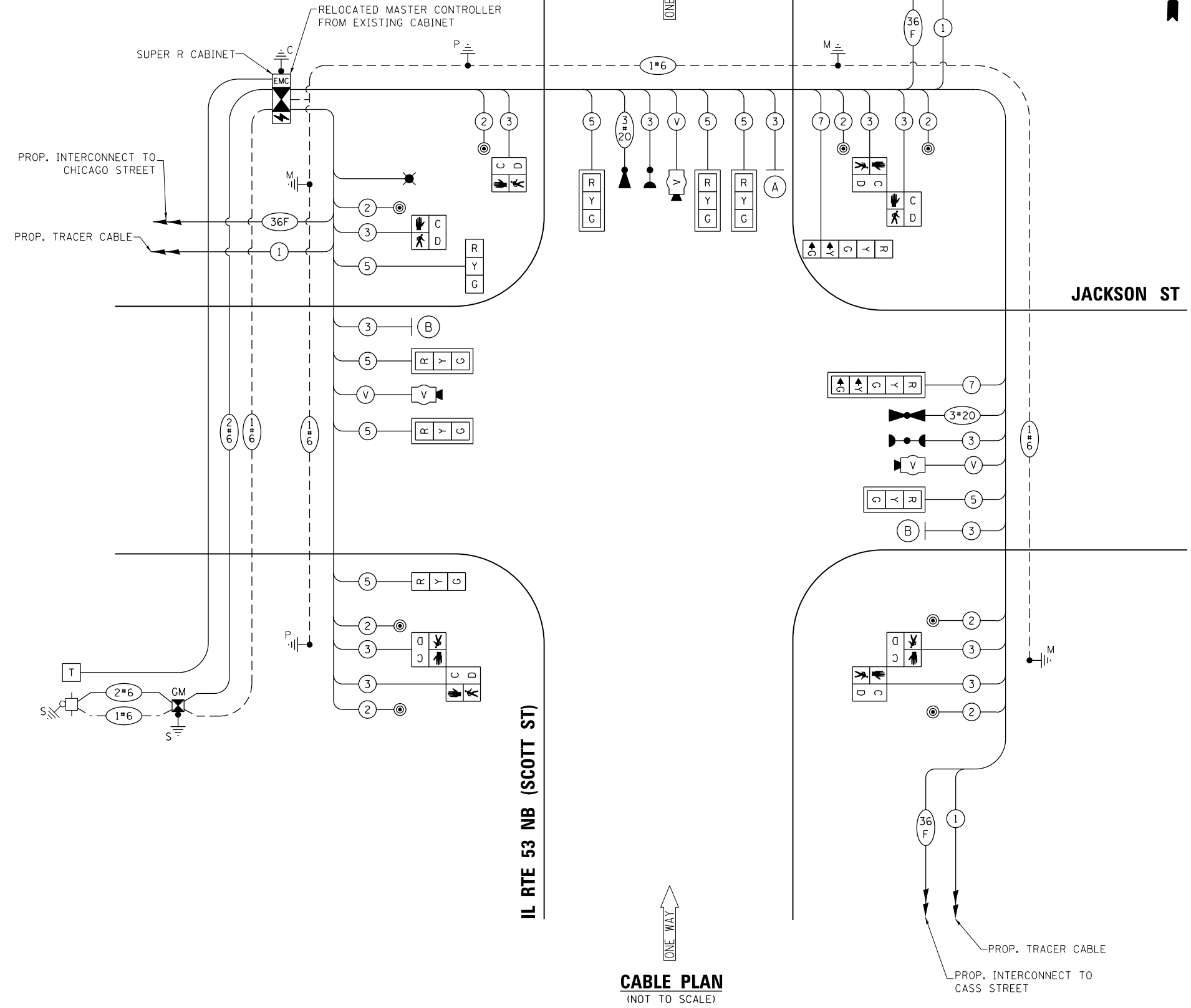
CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

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

(A)
Jackson St
City of Joliet
ILLUMINATED SIGN
(1 REQUIRED)

(B)
Scott St
City of Joliet
ILLUMINATED SIGN
(2 REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CCOD_Sheets\30_Ts_21802_04_Jackson St-IL 53 Scott St.CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

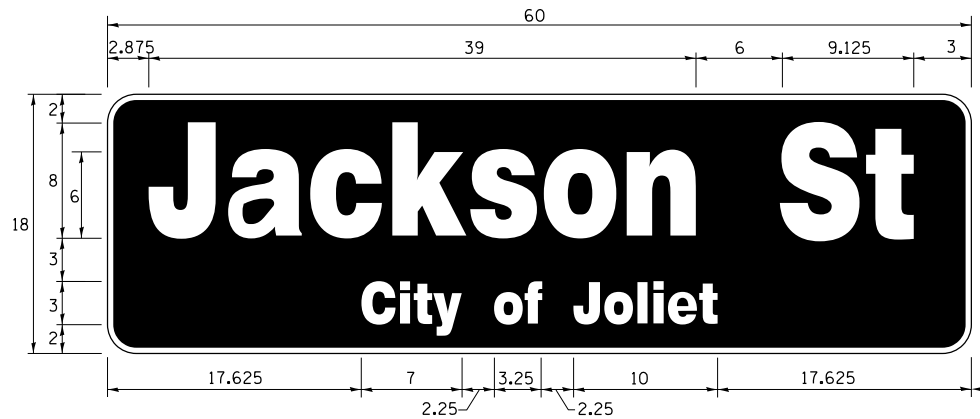
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 53 NB (SCOTT ST) AT JACKSON ST
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. VAR	SECTION 2018-141-TS&I	COUNTY WILL	TOTAL SHEETS 90	SHEET NO. 68
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

TS 21802
ECON 122
LOCATION NO. 30

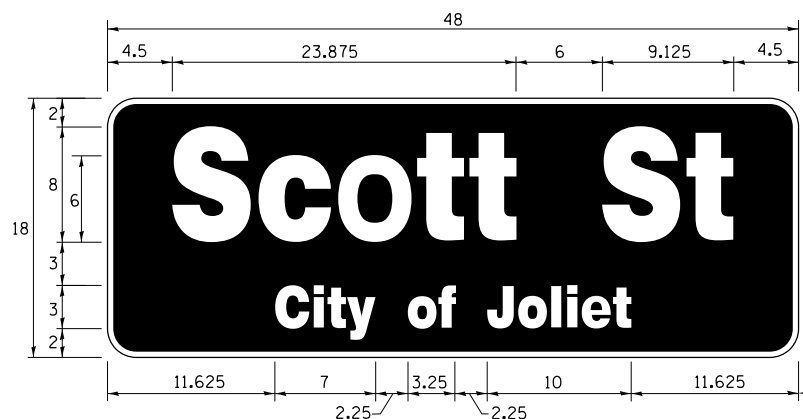
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	7.5	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.0	LED	N/A	2

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	2.25
** DRILLED SHAFT IN ROCK	CU YD	6.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	287
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	20
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	306
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	931
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1360
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1013
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	330
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	213
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	620
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	7
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	373
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
* FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
* SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	150
PEDESTRIAN SIGNAL POST, 10 FT	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4
RELOCATE EXISTING MASTER CONTROLLER	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	25.7
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	405

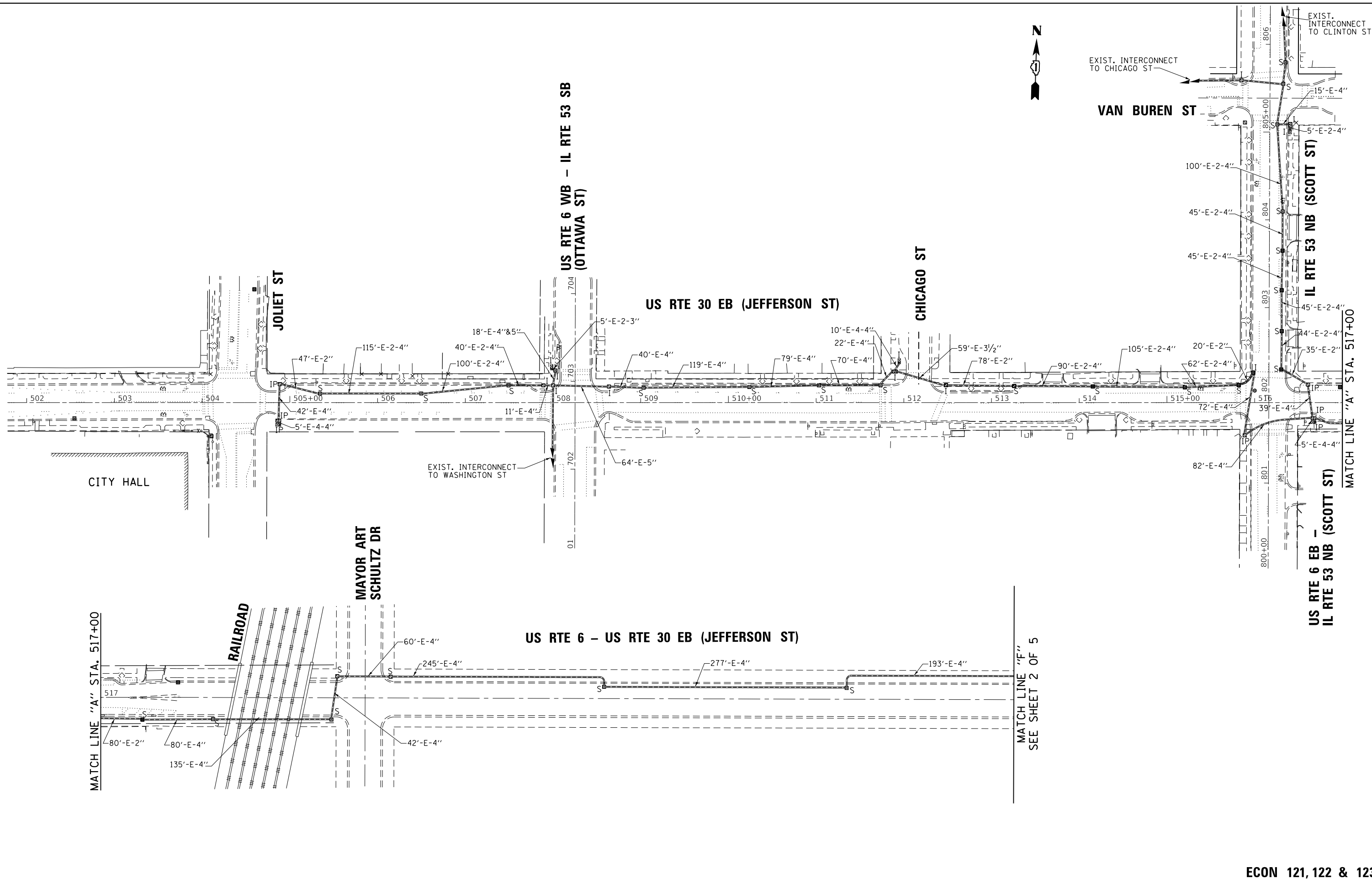
* 100% COST TO CITY OF JOLIET
 ** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR TEMPORARY WOOD POLES, CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects\2018\DOT\Joliet_Roads\KOD\Sheets\30.TS.21802_05.Jackson St-IL 53 Scott St.CD2.dgn

**TS 21802
 ECON 122
 LOCATION NO. 30**

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 305 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED LED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL RTE 53 NB (SCOTT ST) AT JACKSON ST			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1" =	CHECKED - PKG	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	2018-141-TS&I	WILL	90
	PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISED -					CONTRACT NO. 62H79 FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\511_TS_21802_Interconnect_1.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
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	DATE - 2/6/2020	REVISED -

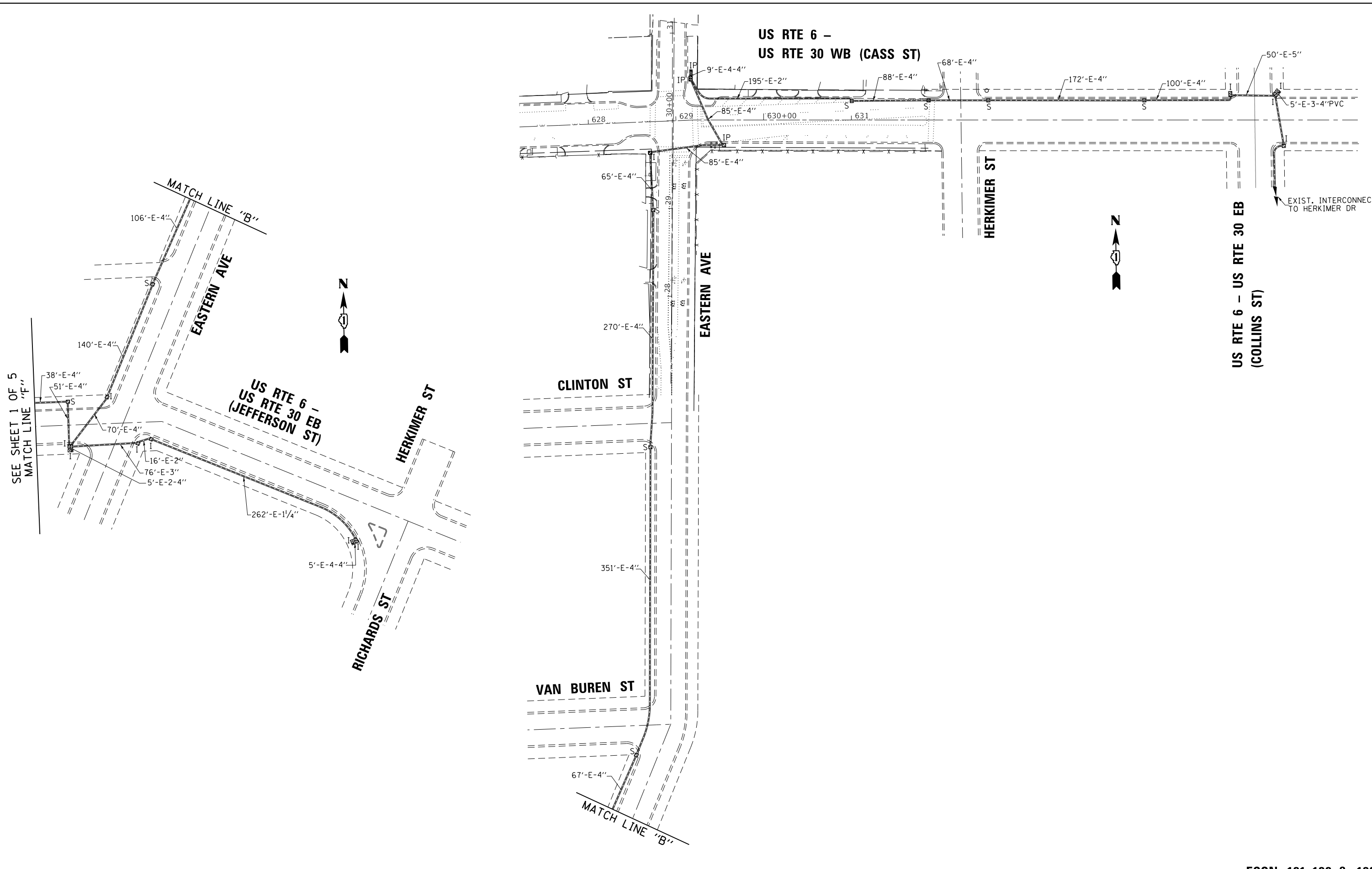
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 1 OF 5) DOWNTOWN JOLIET			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	90	70
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ECON 121, 122 & 123

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\51.TS_21802_Interconnect_2.dgn



GO GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 306
 CHICAGO, ILLINOIS 60630 TEL: 773.774.590

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
DATE - 2/6/2020	REVISIONS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN (SHEET 2 OF 5)
 DOWNTOWN JOLIET**

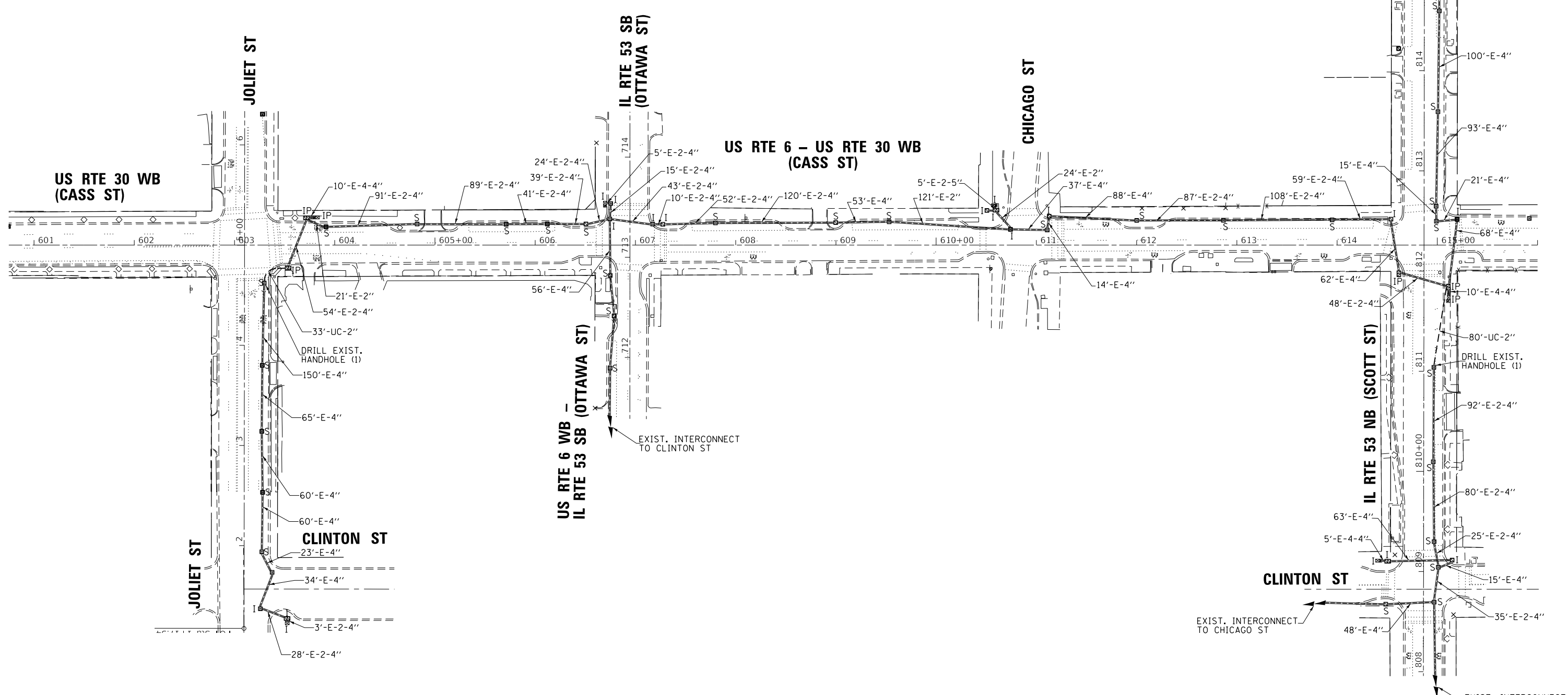
SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	90	71
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ECON 121, 122 & 123



SEE SHEET 4 OF 5
MATCH LINE "D" STA. 815+00



FILE NAME = K:\PROJECTS\Projects 2018\DOT Joliet Roads\CADD_Sheets\51_TS_21802_Interconnect_3.dgn



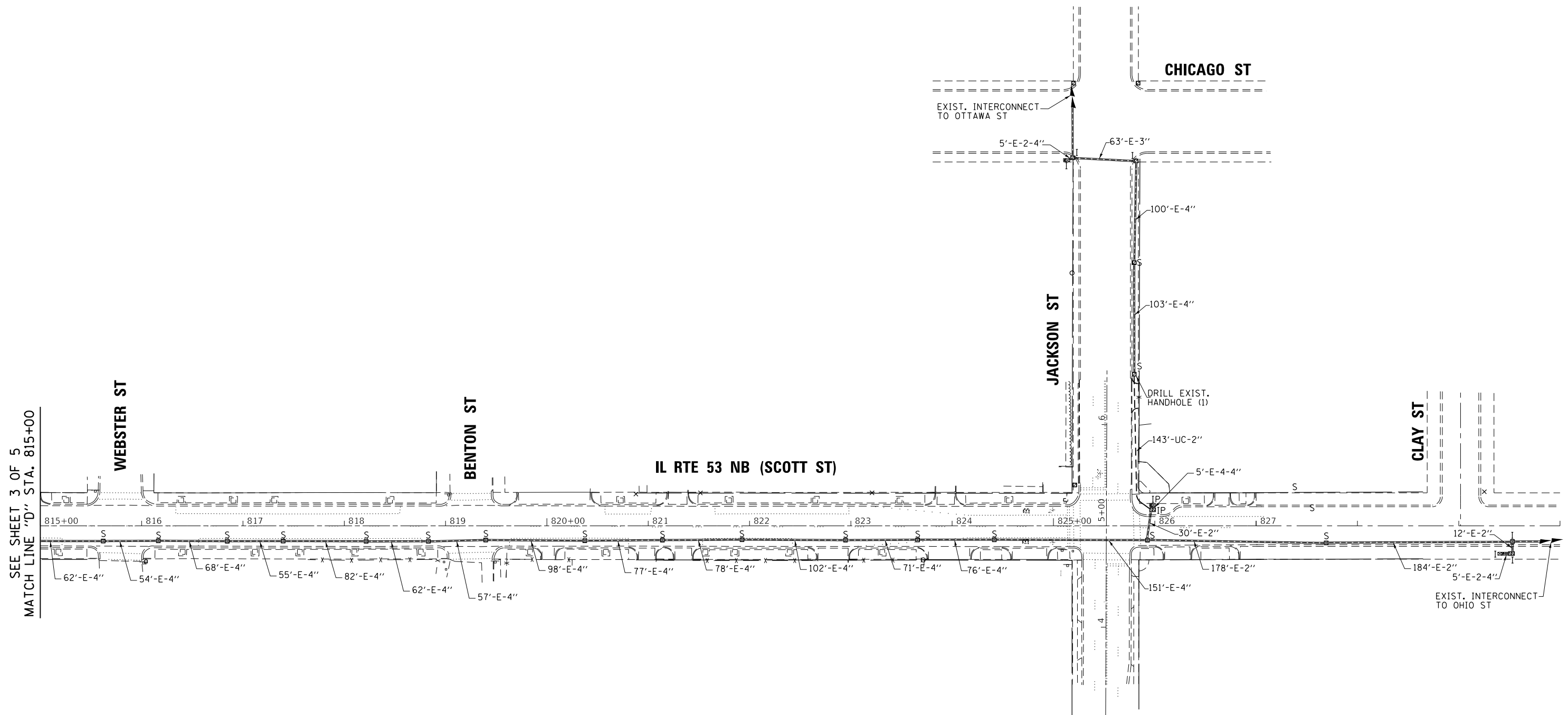
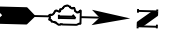
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DRAWN - EA, AV	CHECKED - PKG	REVISED -
DATE - 2/6/2020	REVISIONS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 3 OF 5) DOWNTOWN JOLIET			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	90	72
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ECON 121, 122 & 123



FILE NAME = K:\PROJECTS\Projects 2018\DOT Joliet Roads\CADD_Sheets\51_TS_21802_Interconnect.dgn

GA GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 300
 CHICAGO, ILLINOIS 60630 TEL: 773-717-590

USER NAME = \$USER*
PLOT SCALE = 100.0000' / 1" =
PLOT DATE = \$DATE*

DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	REVISED -
CHECKED - PKG	REVISED -
DATE - 2/6/2020	REVISED -

DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	REVISED -
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DATE - 2/6/2020	REVISED -

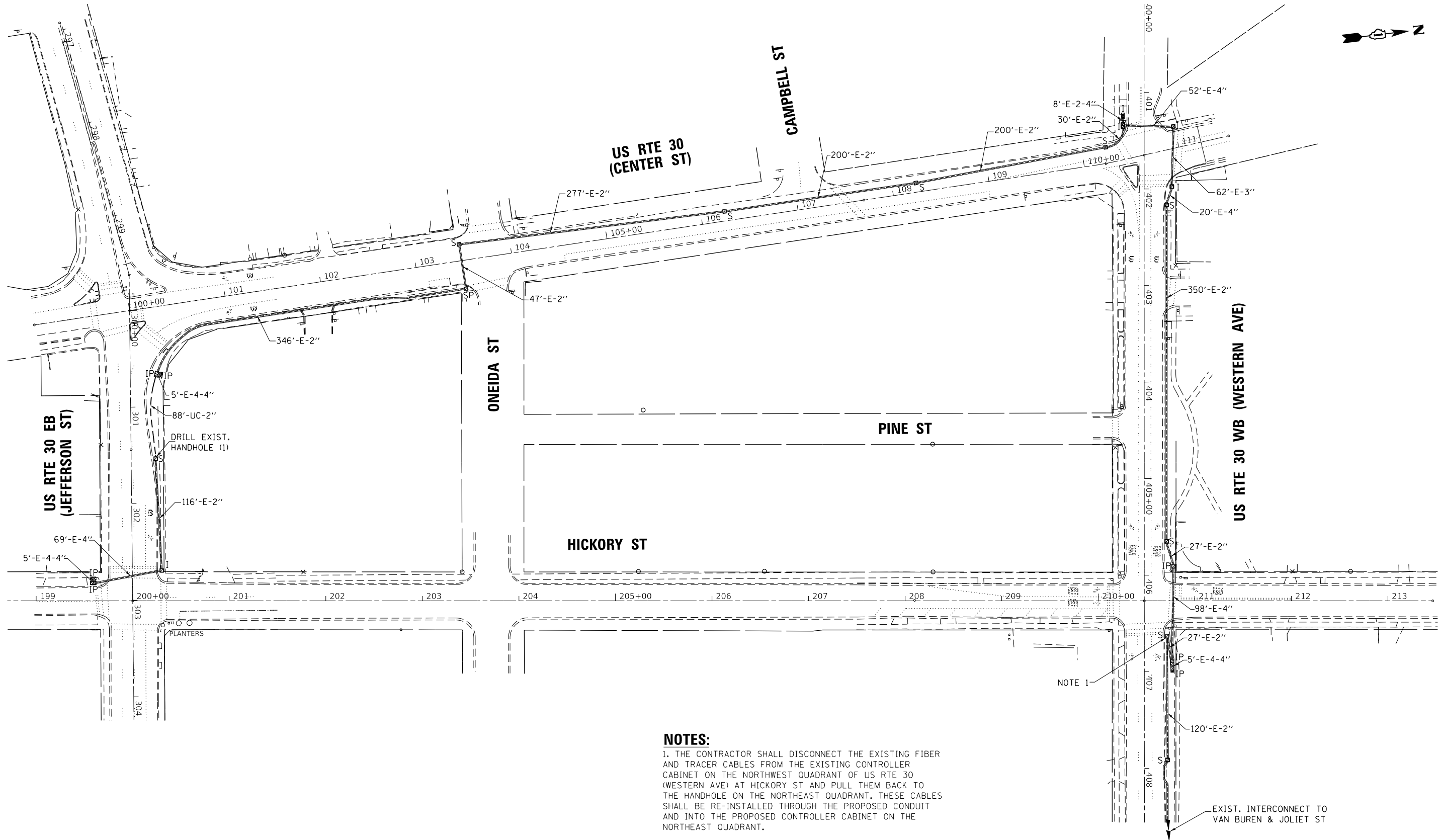
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN (SHEET 4 OF 5)
 DOWNTOWN JOLIET**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	90	73
CONTRACT NO. 62H79			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

ECON 121, 122 & 123



NOTES:

1. THE CONTRACTOR SHALL DISCONNECT THE EXISTING FIBER AND TRACER CABLES FROM THE EXISTING CONTROLLER CABINET ON THE NORTHWEST QUADRANT OF US RTE 30 (WESTERN AVE) AT HICKORY ST AND PULL THEM BACK TO THE HANDHOLE ON THE NORTHEAST QUADRANT. THESE CABLES SHALL BE RE-INSTALLED THROUGH THE PROPOSED CONDUIT AND INTO THE PROPOSED CONTROLLER CABINET ON THE NORTHEAST QUADRANT.

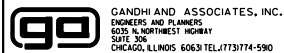
EXIST. INTERCONNECT TO VAN BUREN & JOLIET ST

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\51.TS_21802_Interconnect_5.dgn

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN (SHEET 5 OF 5) DOWNTOWN JOLIET			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / 1" =	CHECKED - PKG	REVISIED -		SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR.	2018-141-TS&I	WILL
PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISIED -							CONTRACT NO. 62H79			
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ECON 121, 122 & 123

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet.Roads\CADD_Sheets\61.TS_21802_Schem_Interconnect.1.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 200.0000' / 1" =	DATE - 2/6/2020	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC
(SHEET 1 OF 3)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	90	75
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

ECON 121, 122 & 123

NOTE:
THE SCAT CONSULTANT WILL
DETERMINE THE LOCATION OF
THE SYSTEM DETECTORS.



MATCH LINE "A" SEE SHEET 2 OF 3



SEE SHEET 3 OF 3
MATCH LINE "B"



NOTE:
THE SCAT CONSULTANT WILL
DETERMINE THE LOCATION OF
THE SYSTEM DETECTORS.

ECON 121, 122 & 123

FILE NAME = K:\PROJECTS\Projects 2018\DOT Joliet Roads\CADD_Sheets\61.TS_21802_Schem_Interconnect_2.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

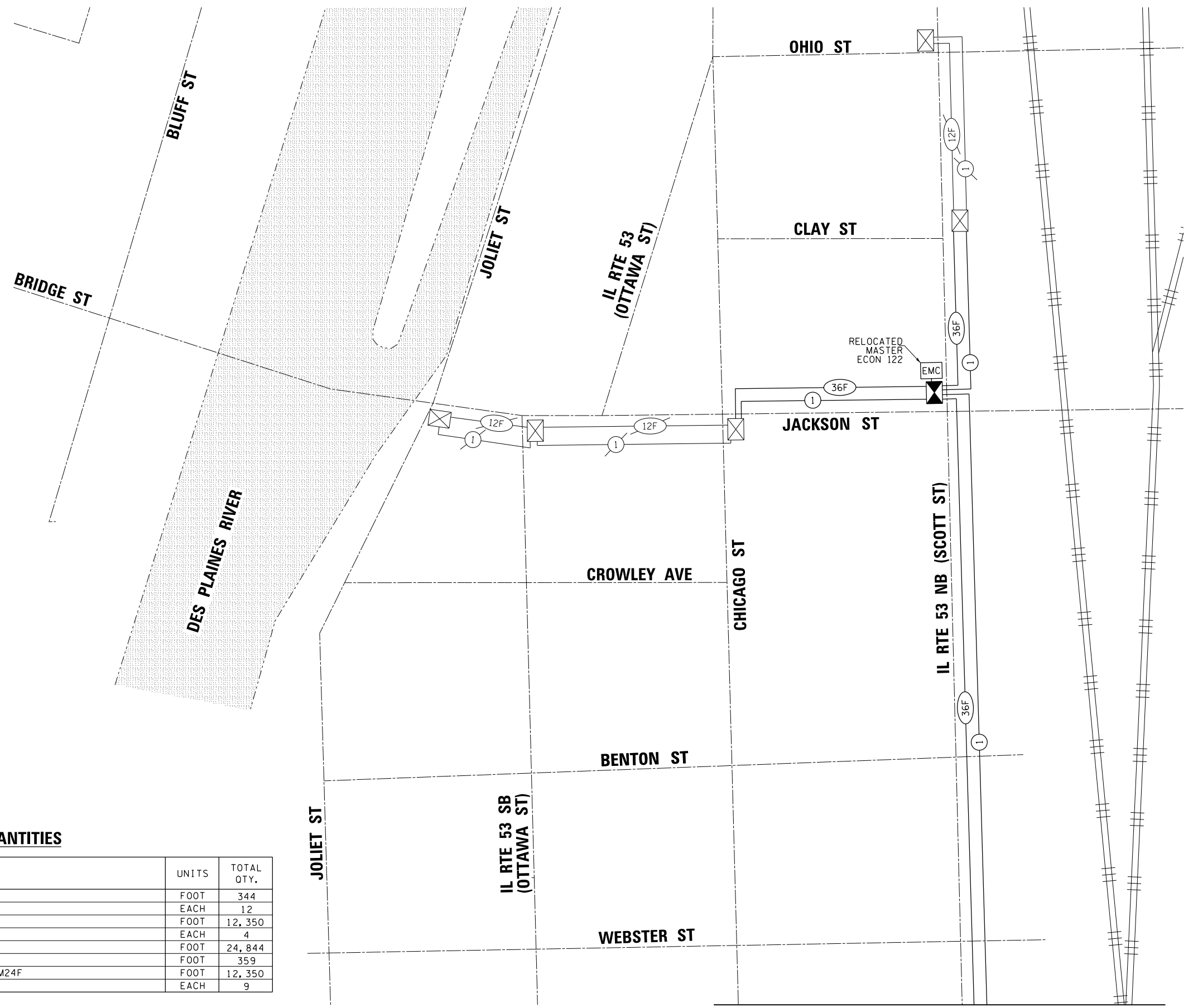
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	DRAWN - EA, AV	REVISED -
PLOT SCALE = 200.0000' / in.	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC
(SHEET 2 OF 3)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	90	76
			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE:
THE SCAT CONSULTANT WILL
DETERMINE THE LOCATION OF
THE SYSTEM DETECTORS.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	344
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	12
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	12,350
DRILL EXISTING HANDHOLE	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	24,844
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	359
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	12,350
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	9

MATCH LINE "B"
SEE SHEET 2 OF 3

ECON 121, 122 & 123

FILE NAME = K:\PROJECTS\Projects_2018\DOT Joliet_Roads\CADD_Sheets\15_21802_Schem_Interconnect_3.dgn

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 3/9/2020
	PLOT SCALE = 200.0000' / 1" =	DRAWN - EA, AV	REVISED -
	PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
		DATE - 2/6/2020	REVISED -

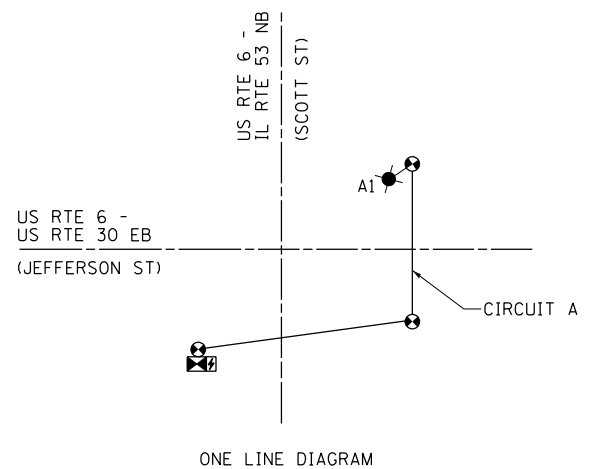
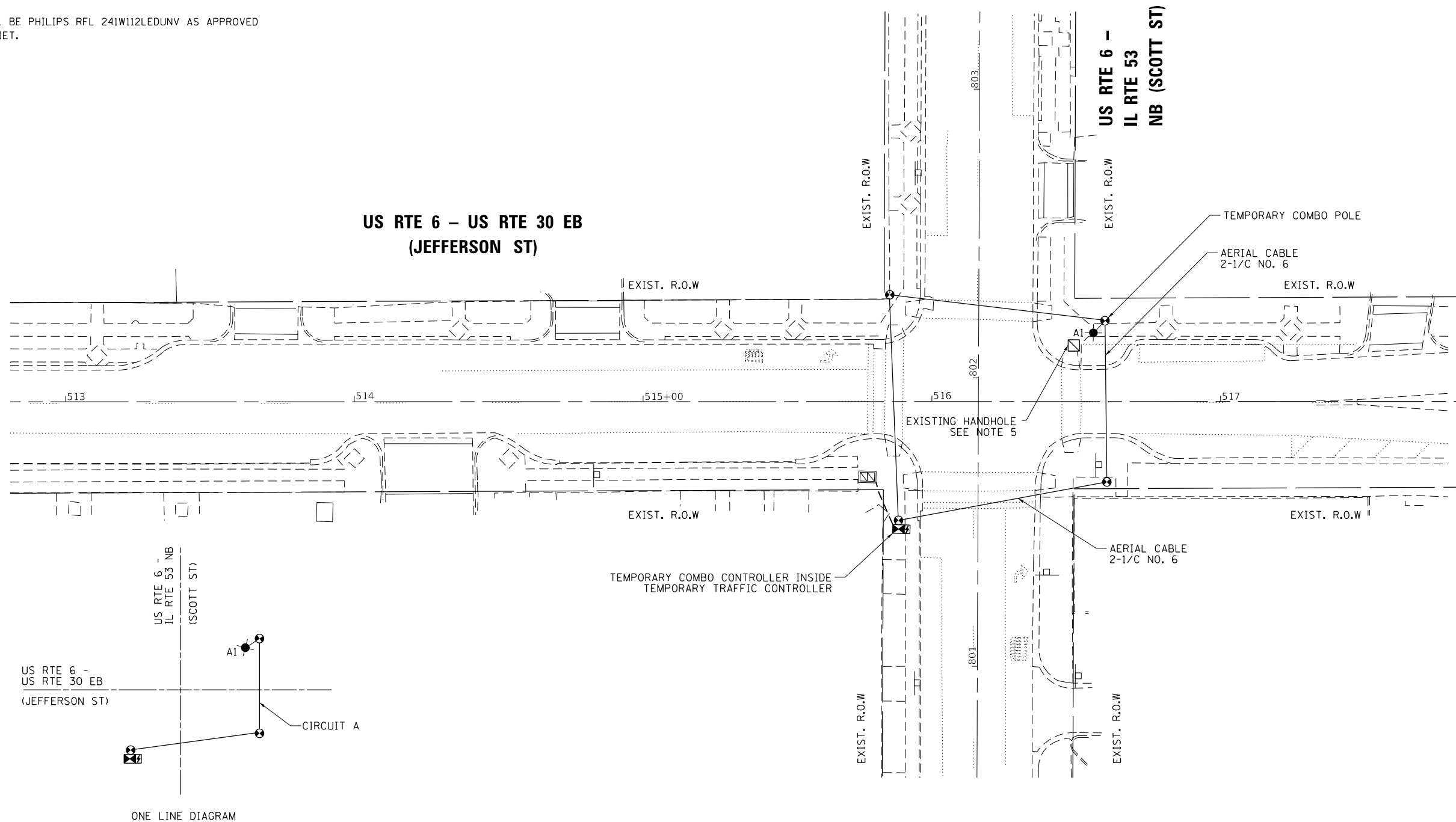
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES (SHEET 3 OF 3)			
SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	90	77
			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



NOTES:

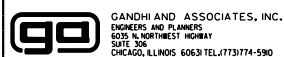
1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
4. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
5. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE TEMPORARY COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE TEMPORARY COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.
6. THE TEMPORARY COMBINATION LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	195
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	1
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

LOCATION NO. 2

K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\62.02.LT.22531.03.Jefferson St-Scott St-Lighting-Temp.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - MA	REVISED - 3/9/2020
	DRAWN - SA	REVISED -
PLOT SCALE = 40.0001' / 1" =	CHECKED - MA	REVISED -
PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING COMBINATION POLE PLAN
US RTE 30 EB (JEFFERSON ST) AT US RTE 6 -
IL RTE 53 NB (SCOTT ST)**

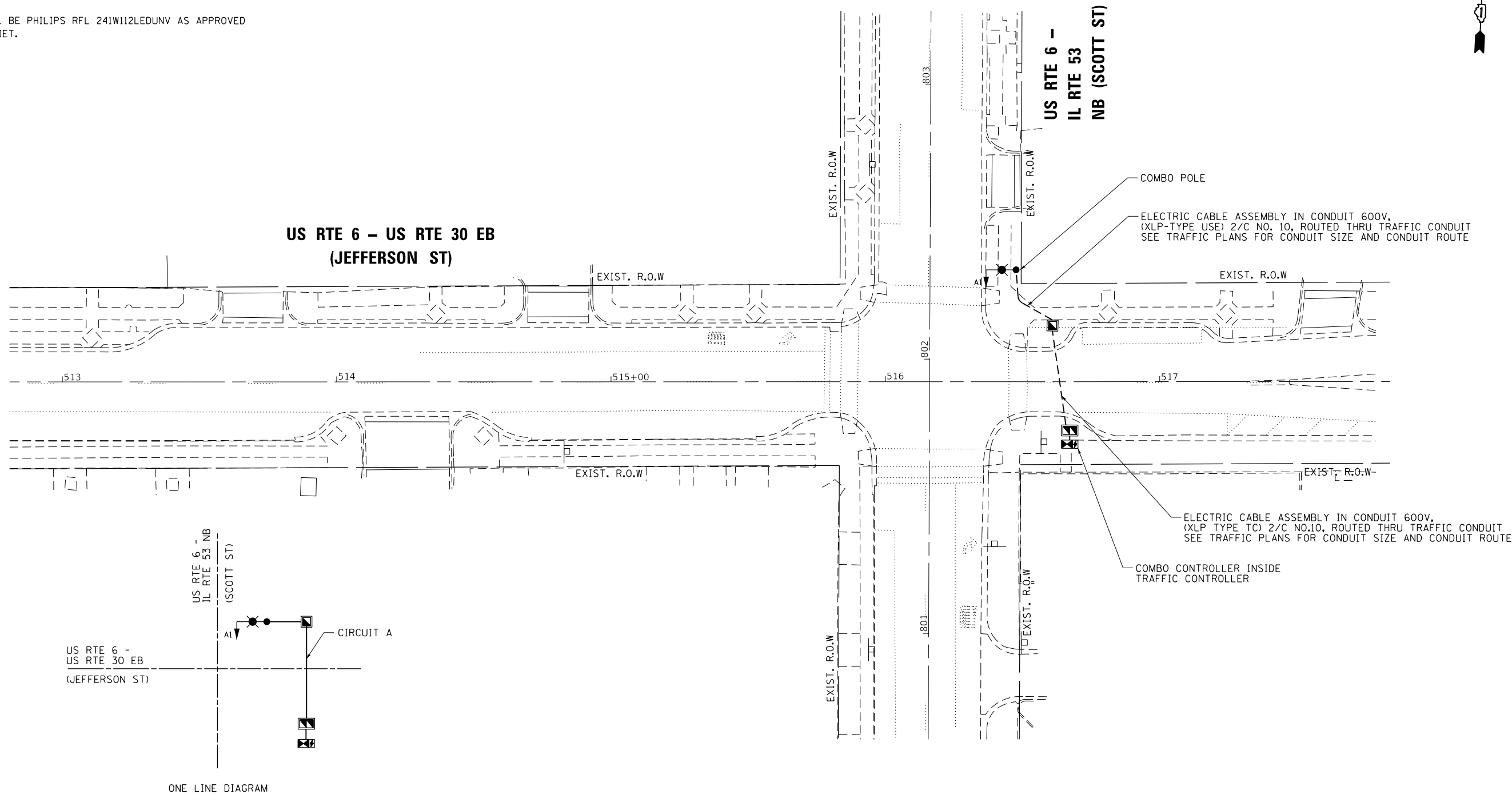
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	78
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	



COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



SCHEDULE OF QUANTITIES FOR LIGHTING

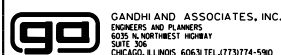
ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	200
LUMINAIRE, LED, SPECIAL	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE TEMPORARY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM, MAINTENANCE OF LIGHTING SYSTEM.

LOCATION NO. 2

K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\63.02.LT.22531.03.Jefferson St-Scott St-Lighting.dgn



USER NAME = \$USER\$	DESIGNED - MA	REVISED - 3/9/2020
	DRAWN - SA	REVISED -
PLOT SCALE = 40.0001' / 1" =	CHECKED - MA	REVISED -
PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 30 EB (JEFFERSON ST) AT US RTE 6 -
 IL RTE 53 NB (SCOTT ST)**

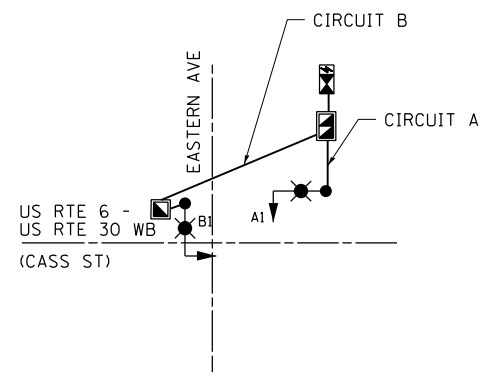
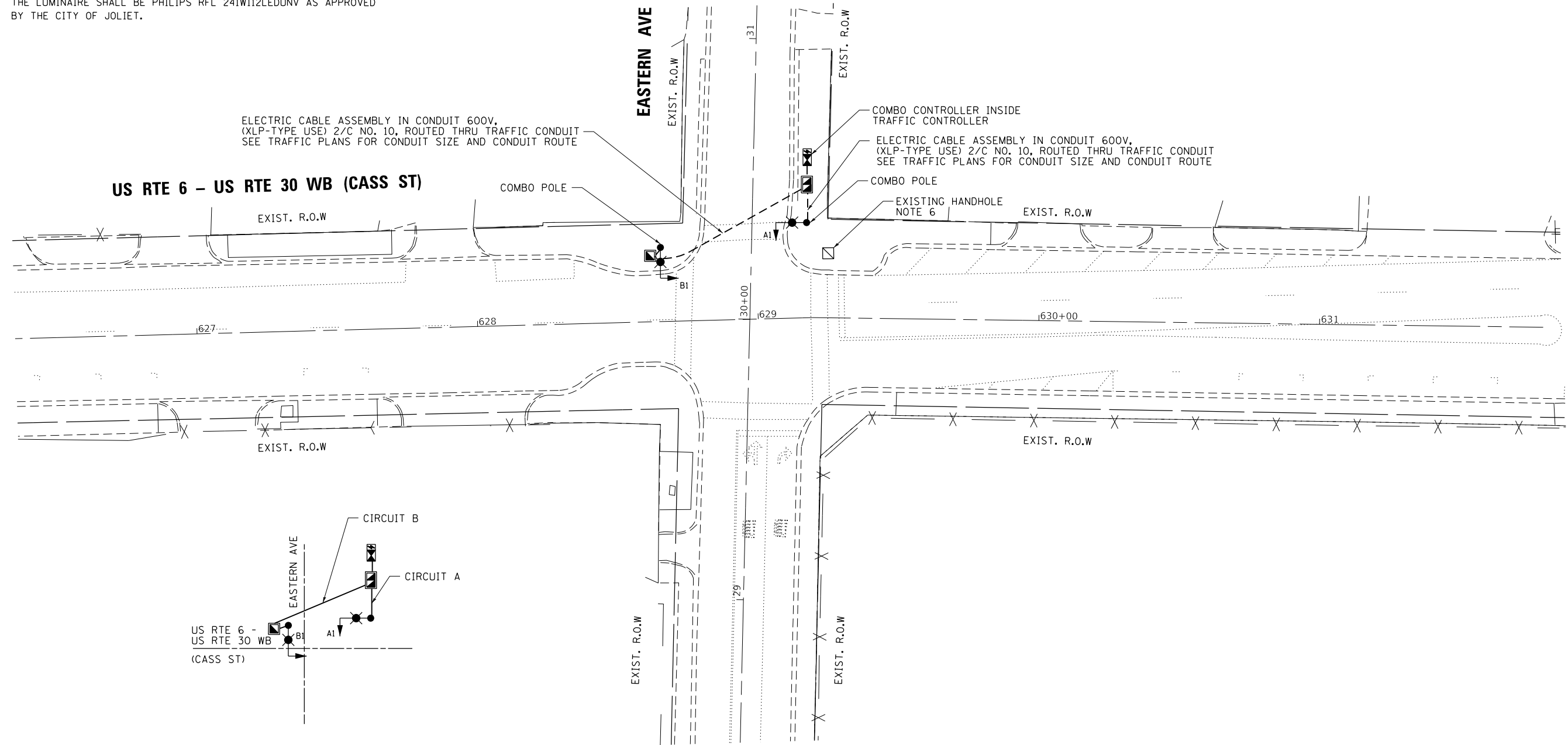
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	79
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	



COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



ONE LINE DIAGRAM

NOTES:

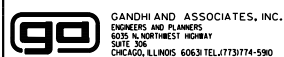
1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE NEW COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	547
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2

LOCATION NO. 9

K:\PROJECTS\Projects 2018\DOT Joliet_Roads\CADD_Sheets\64_09_LT_21780_03_Cass St-Eastern Ave_Lighting.dgn



USER NAME = \$USER\$	DESIGNED - MA	REVISED - 3/9/2020
	DRAWN - SA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MA	REVISED -
PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

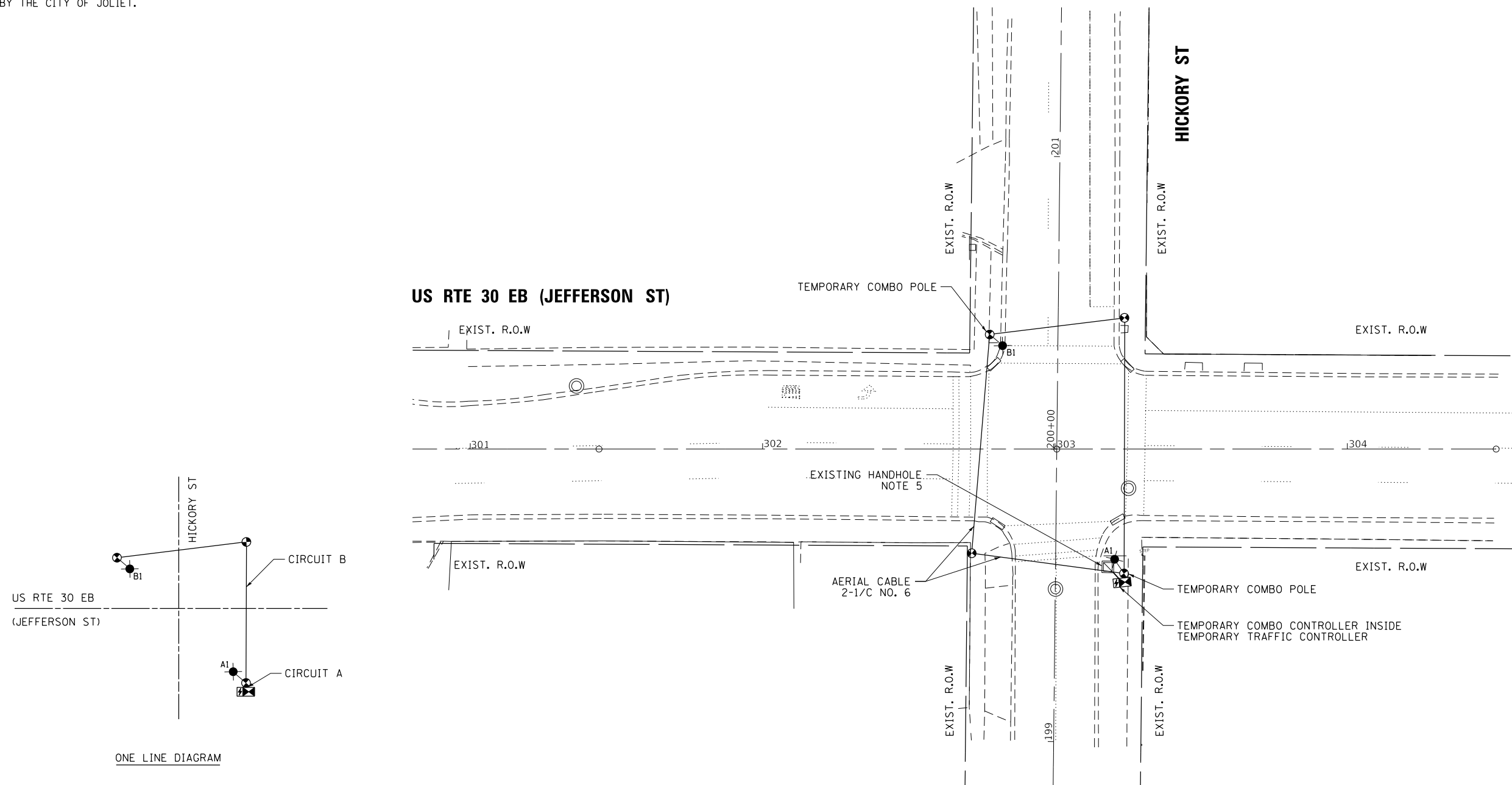
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	80
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



ONE LINE DIAGRAM

NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
4. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
5. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE TEMPORARY COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE TEMPORARY COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT, THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.
6. THE TEMPORARY COMBINATION LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	273
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	2
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	2
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2

LOCATION NO. 20

K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\65.20.LT.22527.03.Jefferson St-Hickory St-Lighting-Temp.dgn

	USER NAME = \$USER\$ DESIGNED - MA DRAWN - SA	REVISED - 3/9/2020 REVISED -
	PLOT SCALE = 40.0000' / 1"	CHECKED - MA DATE - 2/6/2020
	PLOT DATE = \$DATE\$	REVISED -
	GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

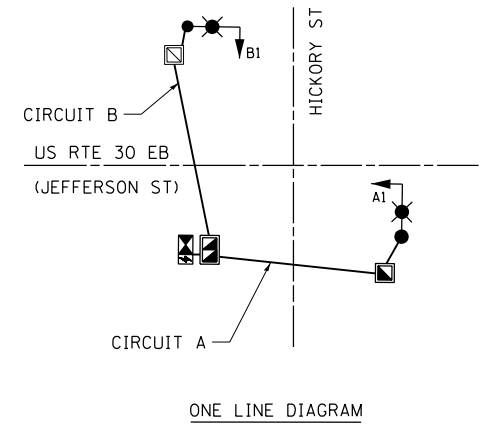
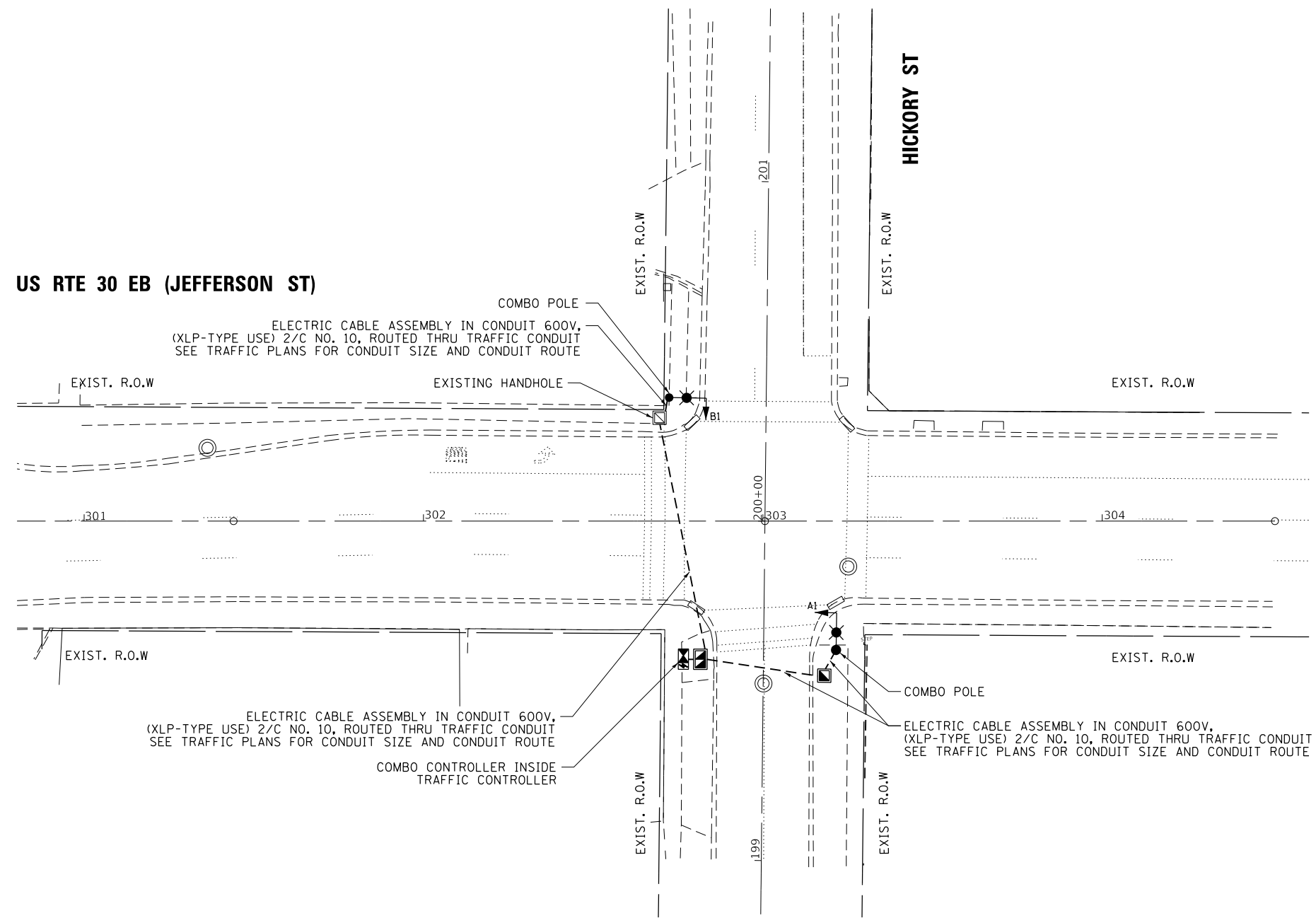
**TEMPORARY LIGHTING COMBINATION POLE PLAN
US RTE 30 EB (JEFFERSON ST) AT HICKORY ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	81
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE TEMPORARY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM, MAINTENANCE OF LIGHTING SYSTEM.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	636
LUMINAIRE, LED, SPECIAL	FOOT	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2

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USER NAME = \$USER*	DESIGNED - MA	REVISED - 3/9/2020
DRAWN - SA	REVISOR -	
PLOT SCALE = 40.0000' / 1" =	CHECKED - MA	REVISOR -
PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISOR -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 30 EB (JEFFERSON ST) AT HICKORY ST

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

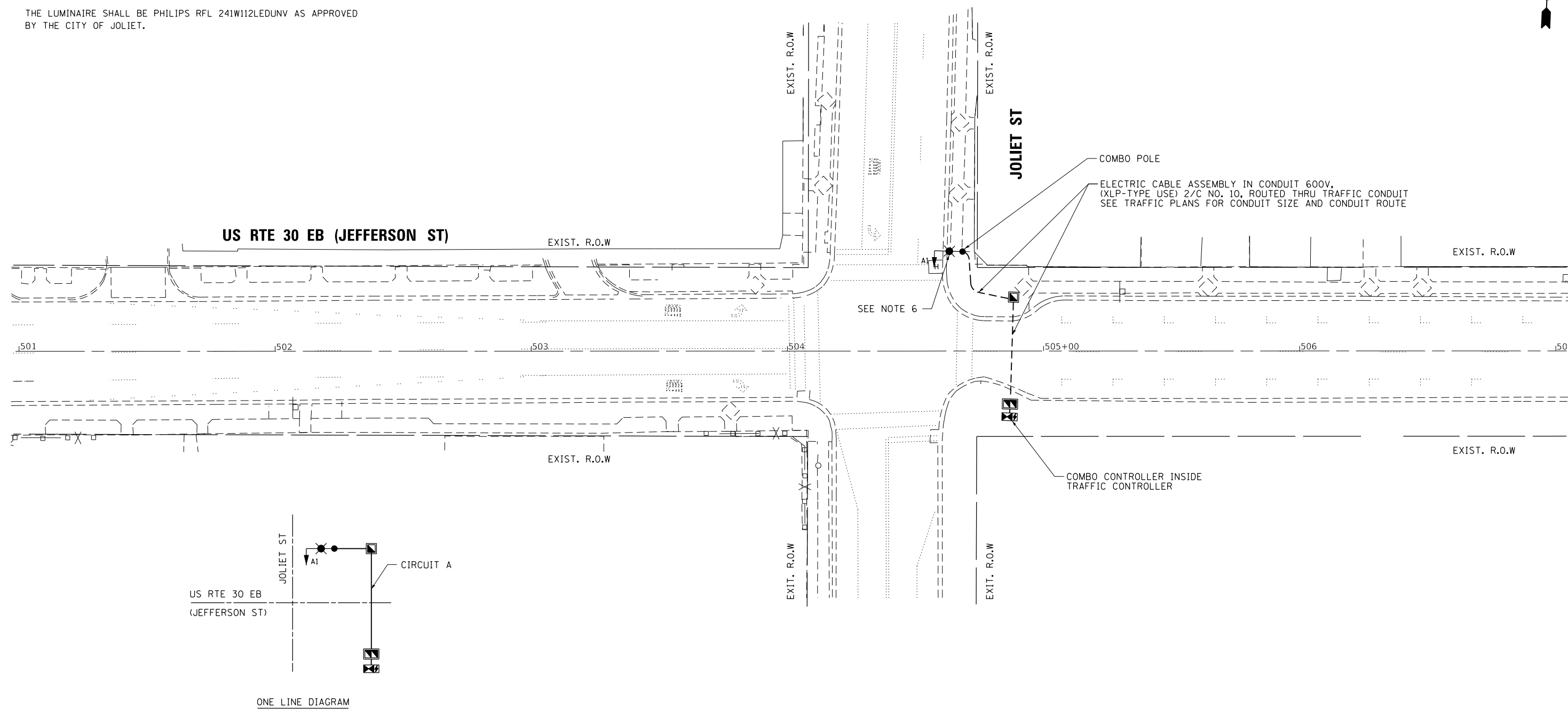
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	82
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

LOCATION NO. 20



COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



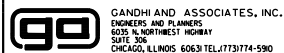
NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE NEW COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	341
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

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USER NAME = \$USER\$	DESIGNED - MA	REVISED - 3/9/2020
PLOT SCALE = 40.0001' / 1" =	DRAWN - SA	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MA	REVISED -
	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 30 EB (JEFFERSON ST) AT JOLIET ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

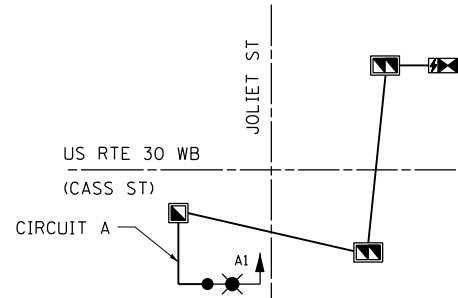
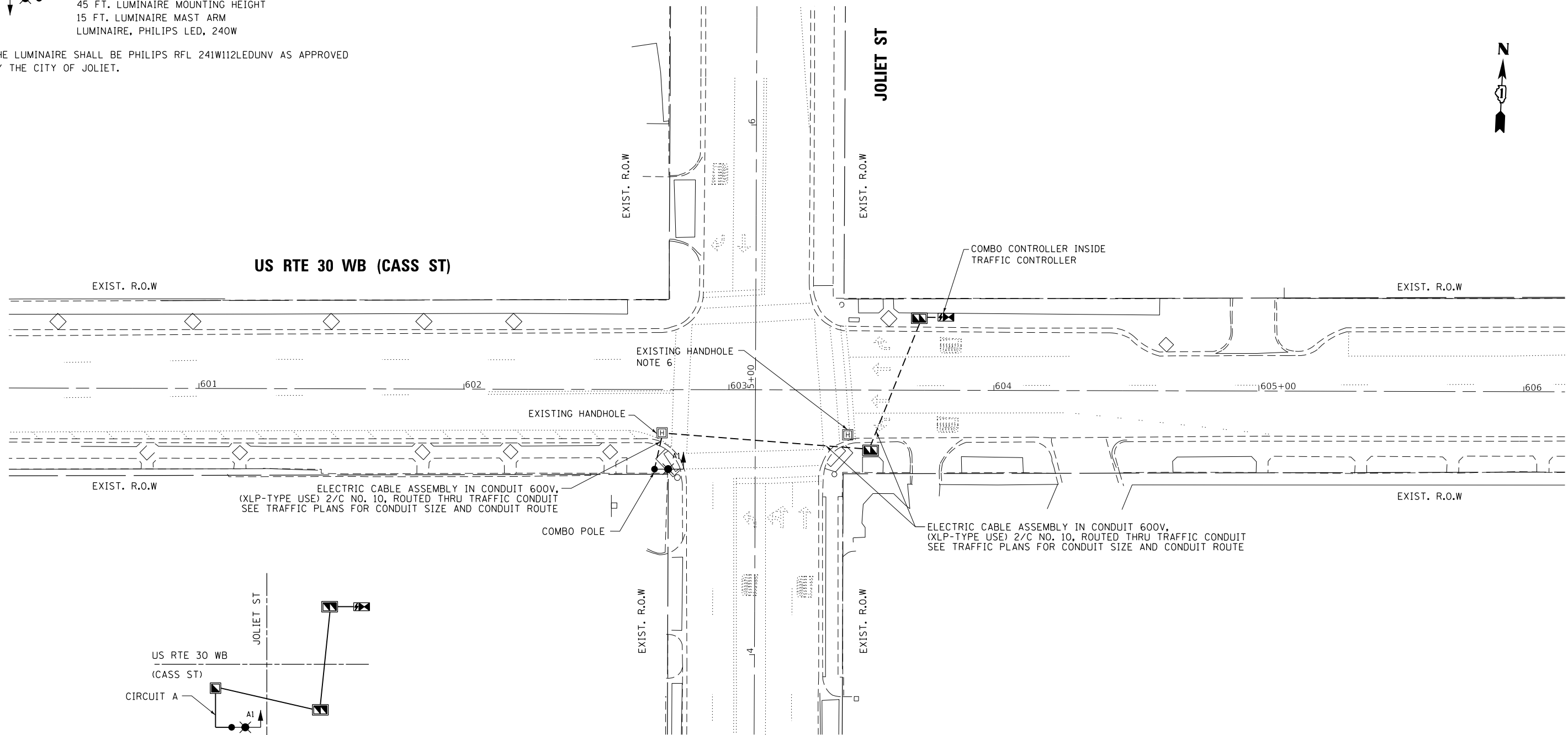
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	83
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

LOCATION NO. 21



COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



ONE LINE DIAGRAM

NOTES:

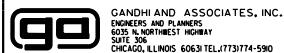
1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE NEW COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT IN THIS EXISTING HANDHOLE. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	523
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

LOCATION NO. 23

K:\PROJECTS\Projects 2018\DOT Joliet Road\SCOD_Sheets\68.23.LT_228394_03_Cass St-Joliet St-Lighting.dgn



USER NAME = \$USER\$	DESIGNED - MA	REVISED - 3/9/2020
PLOT SCALE = 40.0001' / 1"	DRAWN - SA	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MA	REVISED -
	DATE - 2/6/2020	REVISED -

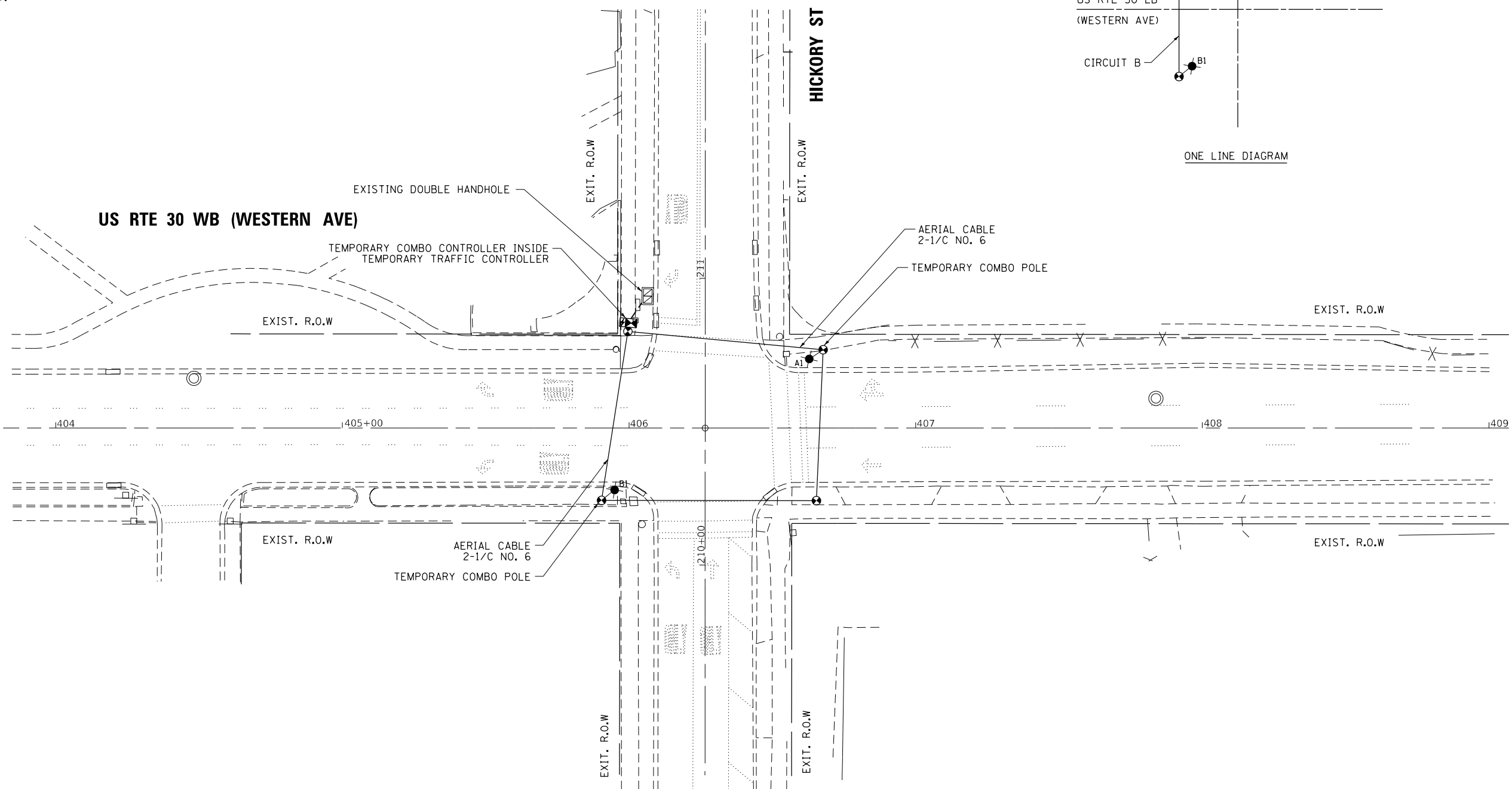
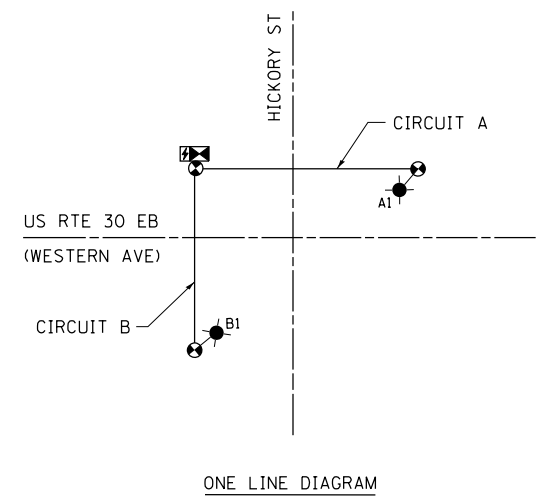
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 30 WB (CASS ST) AT JOLIET ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	84
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
4. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
5. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE TEMPORARY COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE TEMPORARY COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.
6. THE TEMPORARY COMBINATION LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	260
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	2
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	2
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2

LOCATION NO. 24

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\Roads\CD00_Sheets\69_24.LT_22533.03_Western_Ave_Hickory_St_Lighting_Tempodgn

	USER NAME = \$USER\$	DESIGNED - MA	REVISED - 3/9/2020
		DRAWN - SA	REVISED -
	PLOT SCALE = 48.0000' / in.	CHECKED - MA	REVISED -
	PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

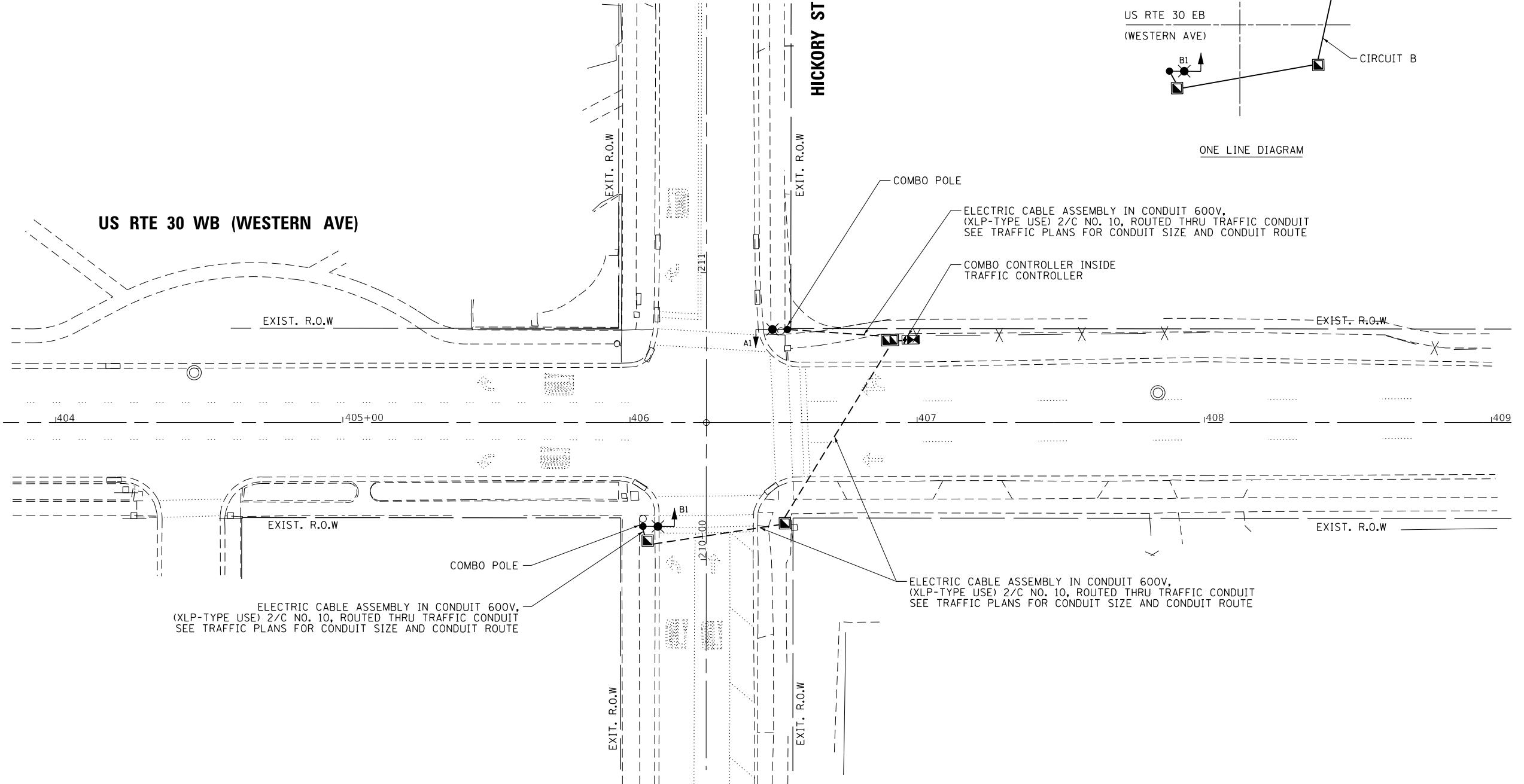
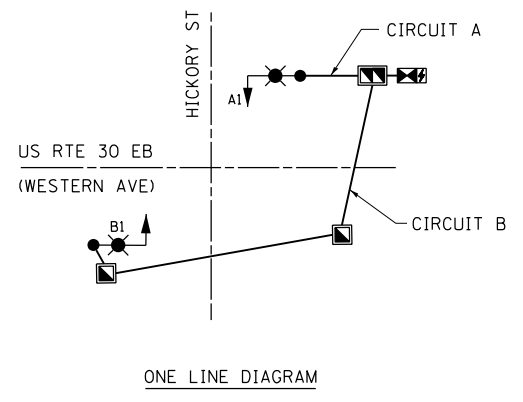
**TEMPORARY LIGHTING COMBINATION POLE PLAN
US RTE 30 WB (WESTERN AVE) AT HICKORY ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	85
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT				

COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE TEMPORARY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM, MAINTENANCE OF LIGHTING SYSTEM.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	460
LUMINAIRE, LED, SPECIAL	EACH	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2

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<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60631 TEL: (773) 774-590</p>	USER NAME = \$USER\$	DESIGNED - MA	REVISED - 3/9/2020
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	PLOT DATE = \$DATE\$	CHECKED - MA	REVISED -
		DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 30 WB (WESTERN AVE) AT HICKORY ST**

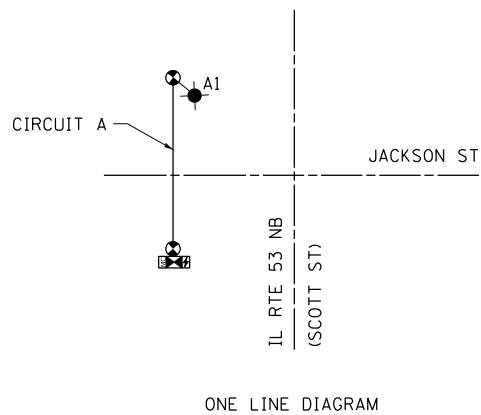
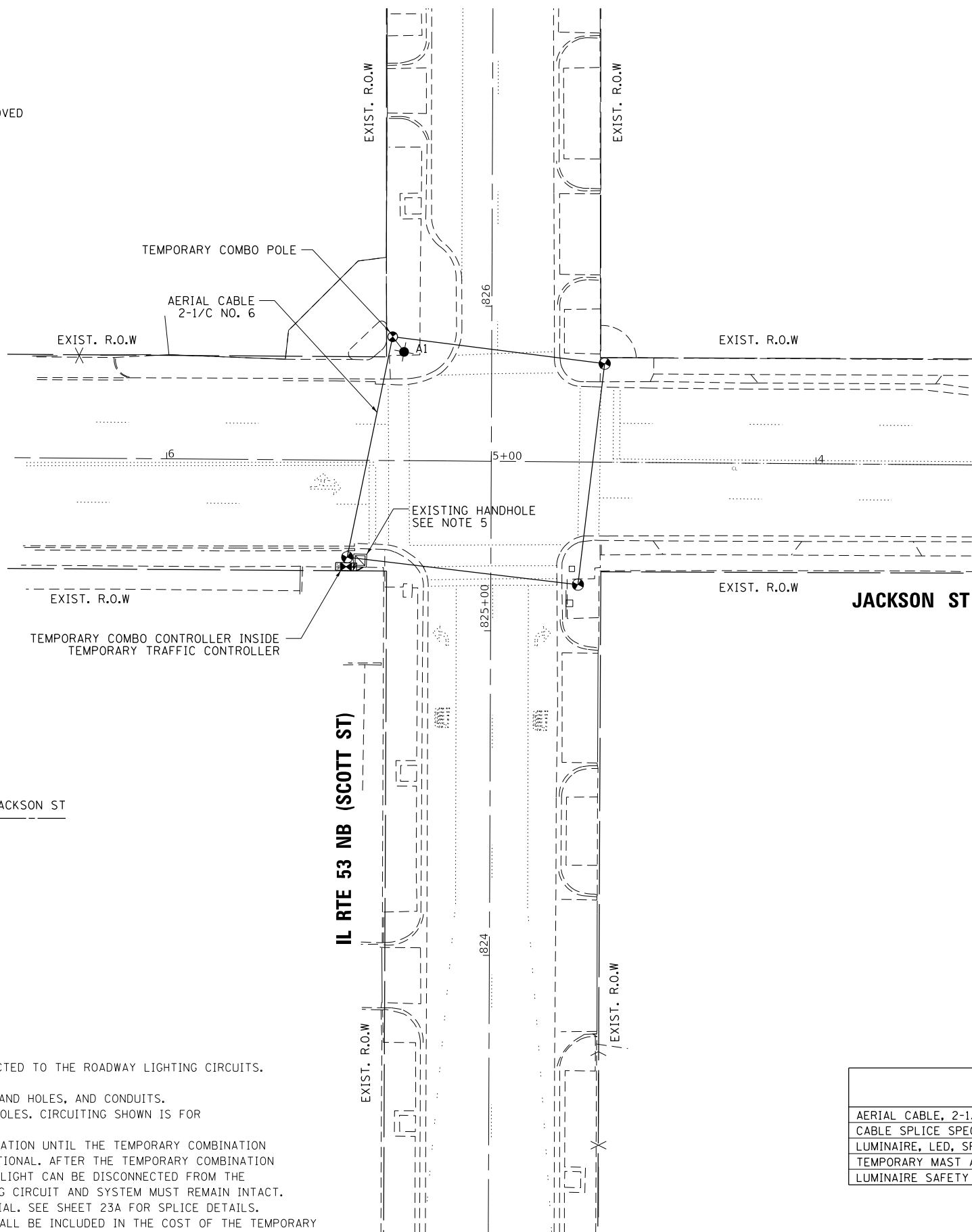
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	86
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

LOCATION NO. 24



THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



NOTES:

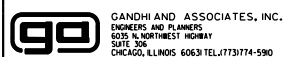
1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
4. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
5. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE TEMPORARY COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE TEMPORARY COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.
6. THE TEMPORARY COMBINATION LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	135
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	1
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

LOCATION NO. 30

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USER NAME = \$USER\$	DESIGNED - MA	REVISED - 3/9/2020
	DRAWN - SA	REVISED -
PLOT SCALE = 40.0000' / 1" =	CHECKED - MA	REVISED -
PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING COMBINATION POLE PLAN
IL RTE 53 NB (SCOTT ST) AT JACKSON ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	87
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

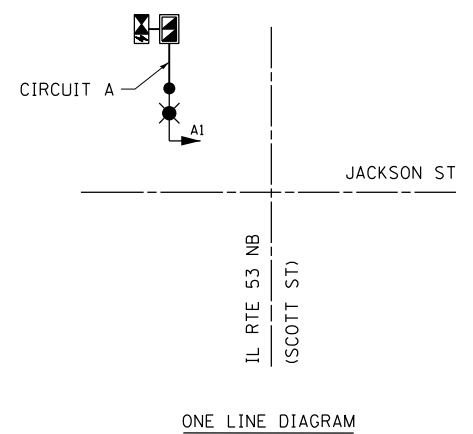
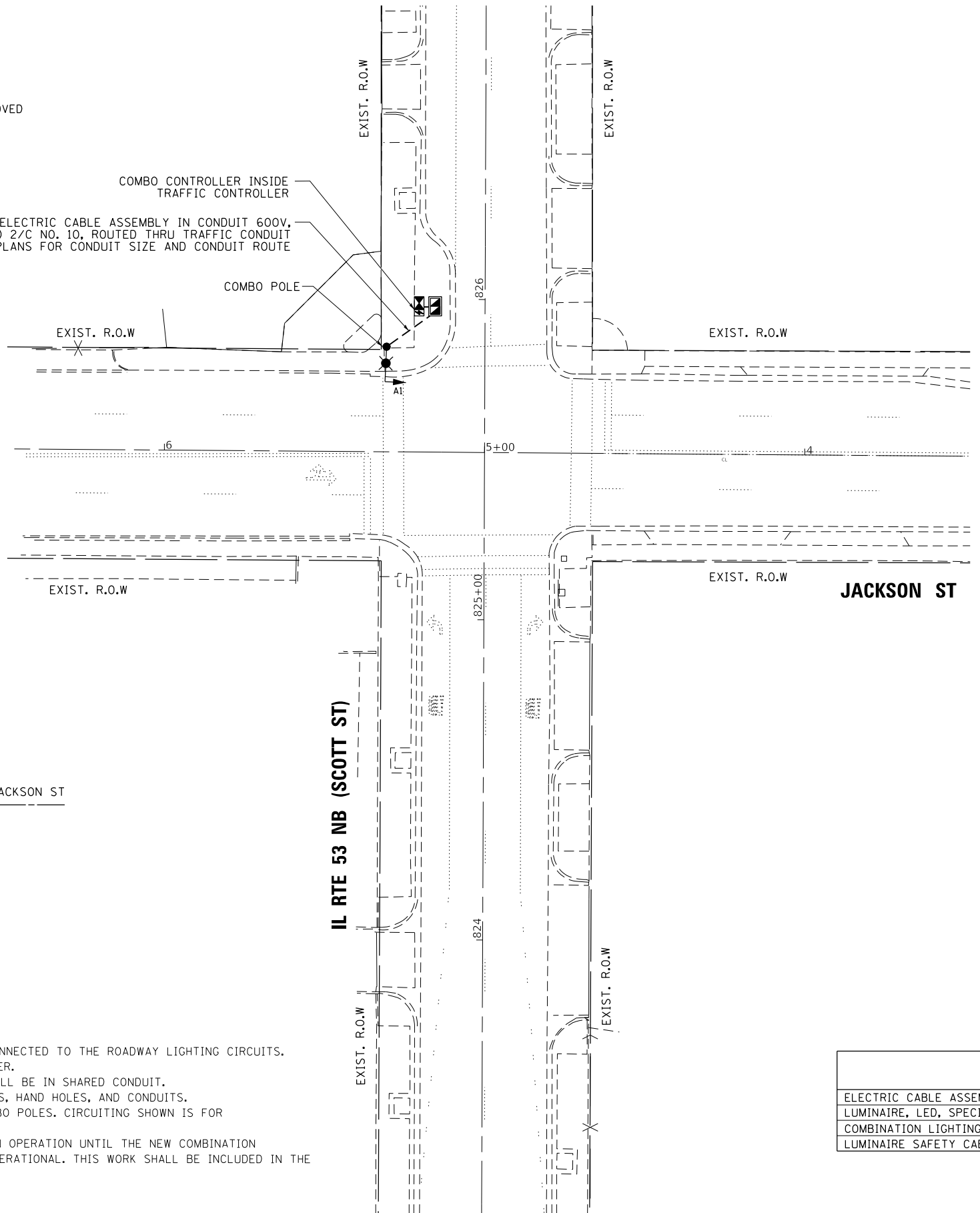


COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



COMBO CONTROLLER INSIDE TRAFFIC CONTROLLER
 ELECTRIC CABLE ASSEMBLY IN CONDUIT 600V, (XLP-TYPE USE) 2/C NO. 10, ROUTED THRU TRAFFIC CONDUIT SEE TRAFFIC PLANS FOR CONDUIT SIZE AND CONDUIT ROUTE
 COMBO POLE



NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE TEMPORARY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM, MAINTENANCE OF LIGHTING SYSTEM.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	218
LUMINAIRE, LED, SPECIAL	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

LOCATION NO. 30

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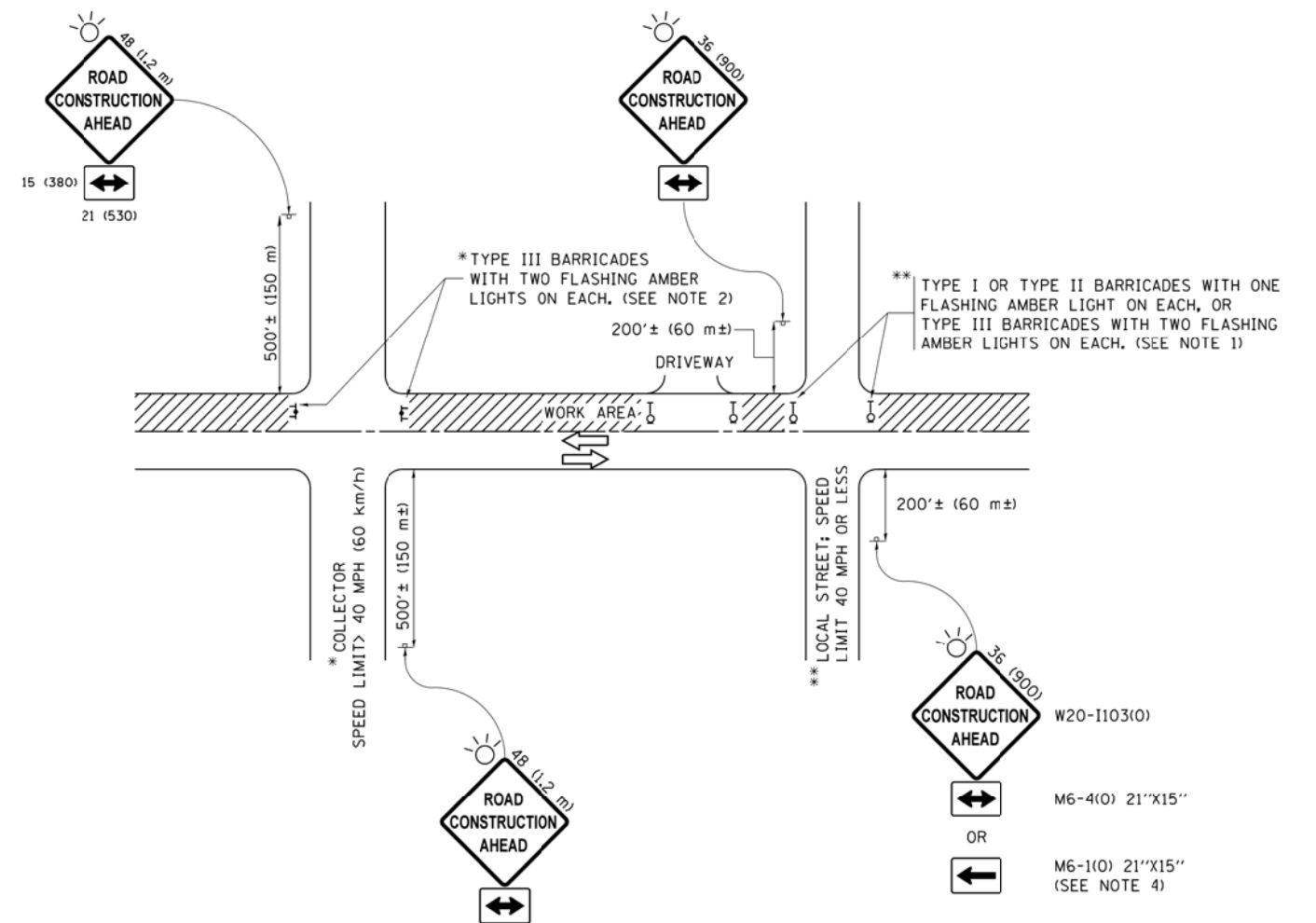
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PLOT DATE = \$DATE\$	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 IL RTE 53 NB (SCOTT ST) AT JACKSON ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	88
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

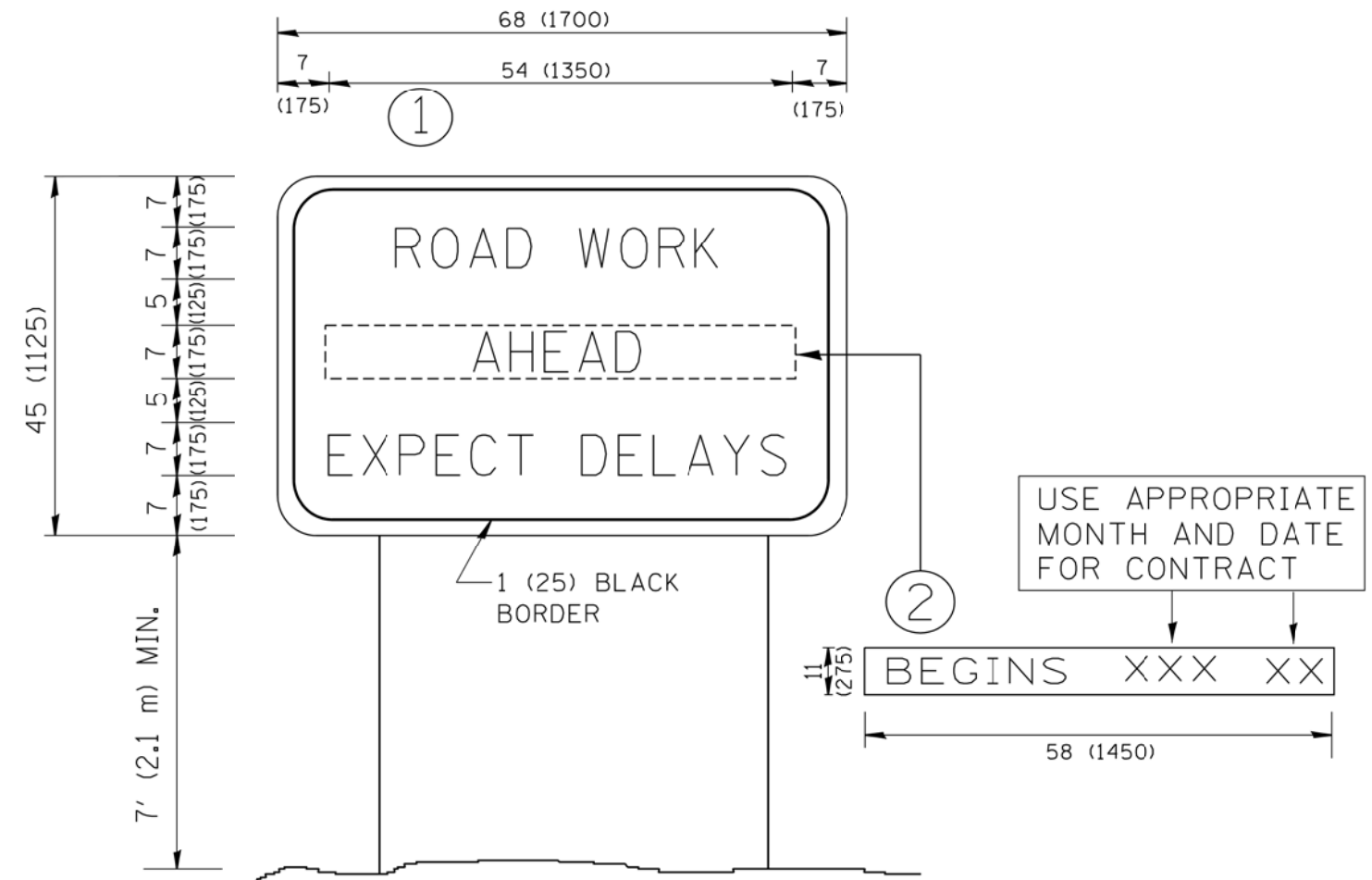
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pw\j\084EBIDINTEG\111nois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Dist	DRAWN\CA0Data\CA0sheets\c10.dgn	CHECKED -	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	89
TC-10			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	REVISED - R. MIRS 12-11-97
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	90
TC-22		CONTRACT NO. 62H79		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				