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## 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
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	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. SHOULD Cobbles PREVENT BORING, THE COST FOR PROVIDING SPECIALTY EQUIPMENT (I.E. ROCK BORE MACHINE) AND/OR OPEN TRENCH AND RESTORATION ARE INCLUDED IN THE PAY ITEMS



REVISED 4/7/2020

	USER NAME = #USER#	DESIGNED - EA	REVISED - 3/9/2020	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, HIGHWAY STANDARDS &amp; GENERAL NOTES</b>			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PL O T S C A E = 40 .0000 / / in .	CHECKED - PKG	REVISED - <b>4/6/2020</b>					VAR	2018-141-TS&I	WILL	90	2
PLOT DATE = #DATE#	DATE - 2/6/2020	REVISED -	SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 62H79						
					FED. ROAD DIST. NO. ILLINOIS			FED. AID PROJECT				

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 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 6.7% STATE 3.3% 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	43	11	22	10												
51604000	DRILLED SHAFT IN ROCK	CU YD	58	14	31	13												
* 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


1 REVISED 4/7/2020

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60631 TEL: 773/714-5900	USER NAME = \$USER*	DESIGNED - EA	REVISED - 4/6/2020	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b> <b>(SHEET 1 OF 8)</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	P.L.D. SCALE = 40.0000' / 1" =	DRAWN - EA, AV	REVISOR -						VAR	2018-141-TS&I	WILL	90	5
	CHECKED - PKG	REVISOR -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO	STA.	FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT		
	DATE - 2/6/2020	REVISOR -										CONTRACT NO. 62H79	

FILE NAME: \\K:\PROJECTS\Projects\2018\DOT\_Joliet\_Roads\CADD\_Sheets\01-4\_500-8B.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE														INTERCONNECT	EVP AND LED SIGNS
				TRAFFIC SIGNALS			LIGHTING			RETROREFLECTIVE BACKPLATES					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 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET		90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 10% STATE		
			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		
				0021															
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	5,897	1,669	2,446	1,438											344		
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										

△ REVISED 4/7/2020

 <b>GANDHI AND ASSOCIATES, INC.</b> ENGINEERS AND PLANNERS 100 N. LAUREL STREET, SUITE 200 CHICAGO, ILLINOIS 60610 TEL: 773.374.5900	USER NAME = *USER*	DESIGNED - EA	REVISED - △ 4/6/2020
	PLOT SCALE = 40.00000' / 1" =	DRAWN - EA, AV	REVISED -
	PLOT DATE = *DATE*	CHECKED - PKG	REVISED -
		DATE - 2/6/2020	REVISED -

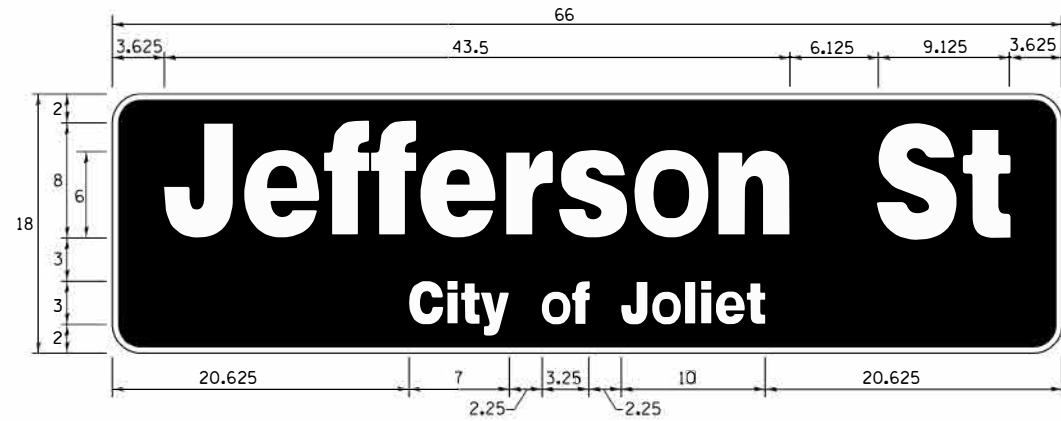
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES (SHEET 7 OF 8)</b>			
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
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

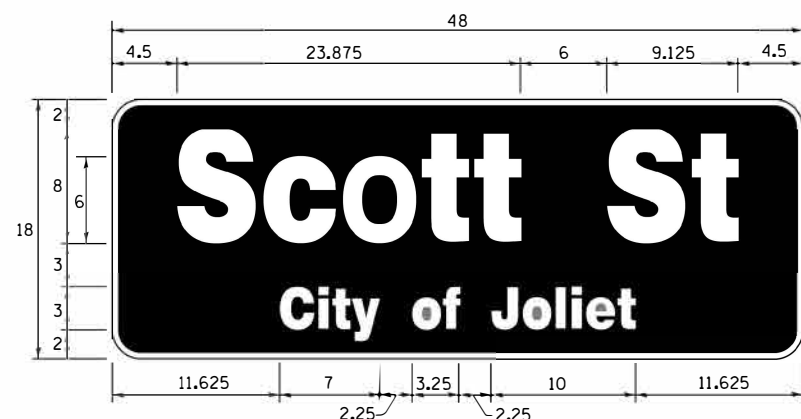
**LED STREET NAME SIGNS**

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.

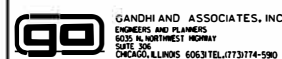
**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	4
** DRILLED SHAFT IN ROCK	CU YD	7
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	534
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.

K:\PROJECTS\Projects\2018\DOT Joliet Roads\CADD\_Sheets\02 TS-22531-06\_Jefferson St-Scott St\_CD.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
	DRAWN - EA, AV	REVISED - 4/6/2020
PLOT SCALE = 48.0000 / in.	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

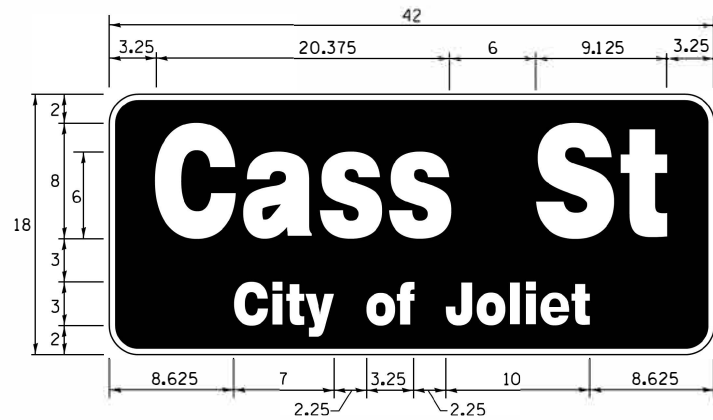
MAST ARM MOUNTED LED STREET NAME SIGNS  
AND SCHEDULE OF QUANTITIES US RTE 6 -  
US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 NB (SCOTT ST)

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

REVISD 4/7/2020  
TS 22531  
ECON 121  
LOCATION NO. 2

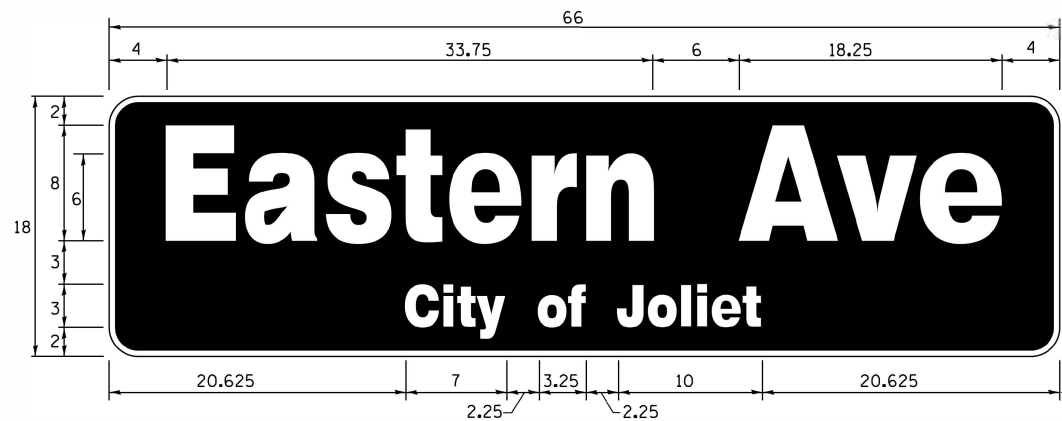
**LED STREET NAME SIGNS**

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	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.

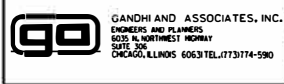
**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	5
** DRILLED SHAFT IN ROCK	CU YD	3.5
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	724
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
* 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\DOT Joliet\Roads\CADD\_Sheets\09 TS-21780\_05.Cass St-Eastern Ave.CDD.dgn



USER NAME = #USER#	DESIGNED - EA	REVISED - 3/9/2020
	DRAWN - EA, AV	REVISED - <b>4/6/2020</b>
PLOT SCALE = 40.0000 / in.	CHECKED - PKG	REVISED -
PLOT DATE = #DATE#	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

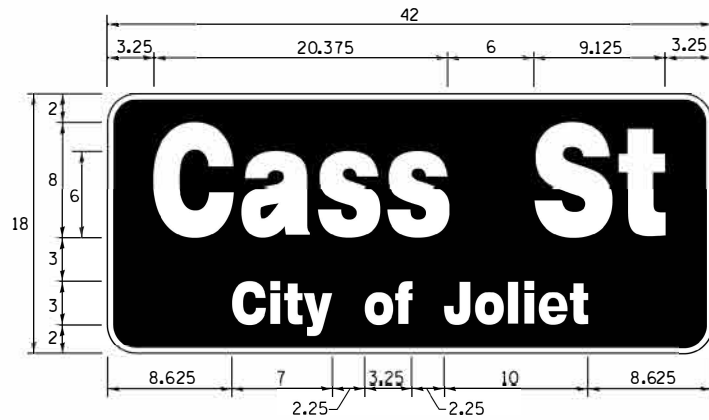
**MAST ARM MOUNTED LED STREET NAME SIGNS  
AND SCHEDULE OF QUANTITIES**  
US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE  
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

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				

REVIS 4/7/2020  
**TS 21780**  
**ECON 123**  
**LOCATION NO. 9**

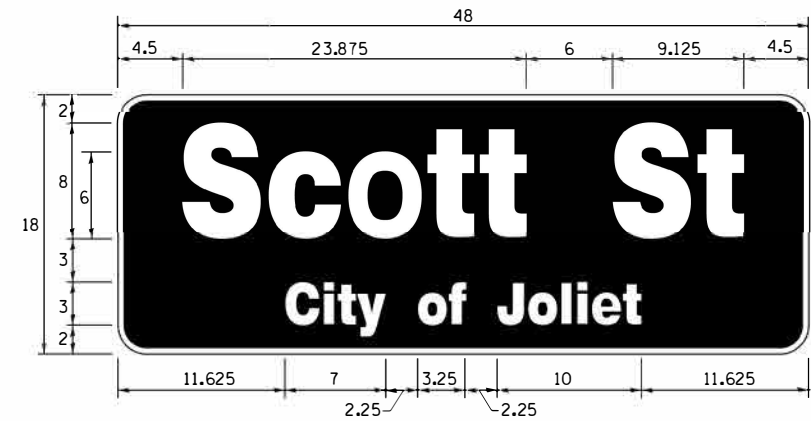
**LED STREET NAME SIGNS**

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	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	5.5
** DRILLED SHAFT IN ROCK	CU YD	5
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	825
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.

FILE NAME: K:\PROJECTS\Projects\2018\DOT\Joliet\Roads\CADD\Sheets\10 TS-21803-05-Cass St-Scott St-LED.dgn



GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
5015 N. NORTHWEST HIGHWAY  
SUITE 300  
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
	DRAWN - EA, AV	REVISED - <b>4/6/2020</b>
PLOT SCALE = 48.00000' / 1" =	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

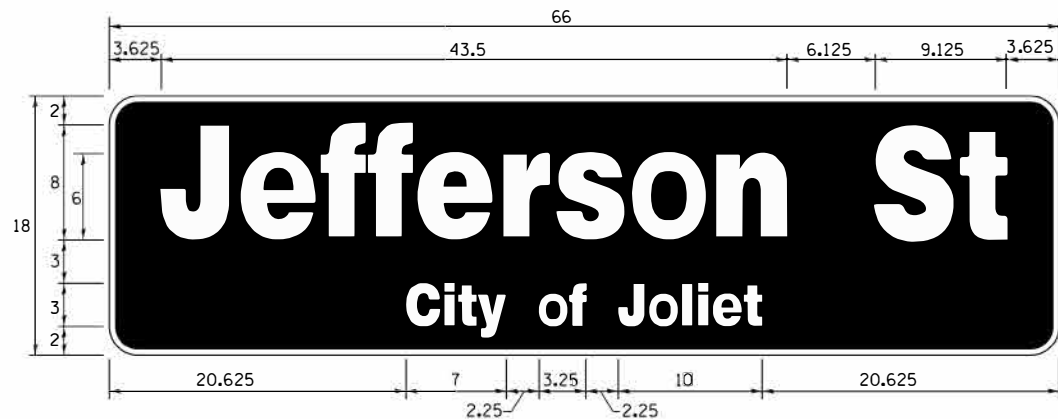
MAST ARM MOUNTED LED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES			
US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

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

REVIS 4/7/2020  
**TS 21803**  
**ECON 121**  
**LOCATION NO. 10**

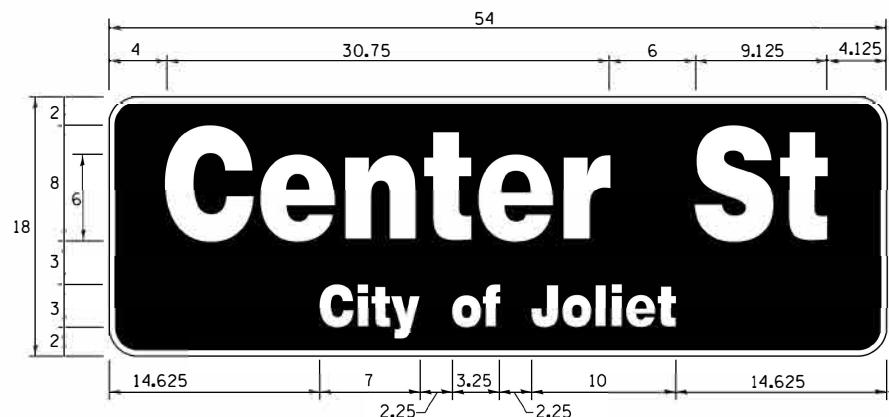
**LED STREET NAME SIGNS**

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	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	7
** 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	1,135
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.

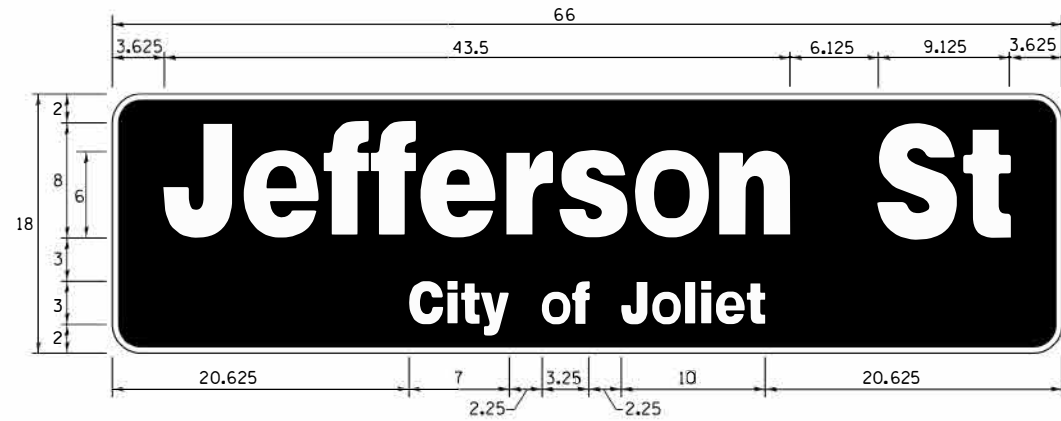
K:\PROJECTS\Projects\2018\DOT Joliet Roads\Roads\CADD\Sheets\19 TS 22526\05 Jefferson St-Center St-C02.dgn

REVIS 4/7/2020  
**TS 22526**  
**ECON 121**  
**LOCATION NO. 19**

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 300 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	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 US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48.0000' / 1".	DRAWN - EA, AV	REVISED - 4/6/2020			VAR	2018-141-TS&I	WILL	90	44
PLOT DATE = \$DATE*	CHECKED - PKG	REVIS -	SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT		
	DATE - 2/6/2020	REVIS -						CONTRACT NO. 62H79		

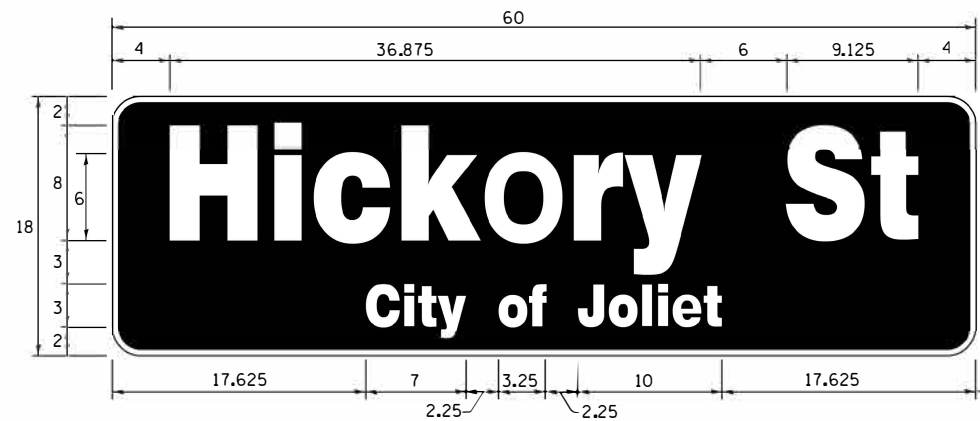
**LED STREET NAME SIGNS**

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.

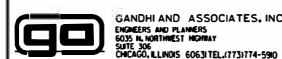
**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	4
** DRILLED SHAFT IN ROCK	CU YD	7.5
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	303
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
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	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
PLOT SCALE = 40.0000' / 1" =	DRAWN - EA, AV	REVISED - <b>4/6/2020</b>
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 EB (JEFFERSON ST) AT HICKORY ST

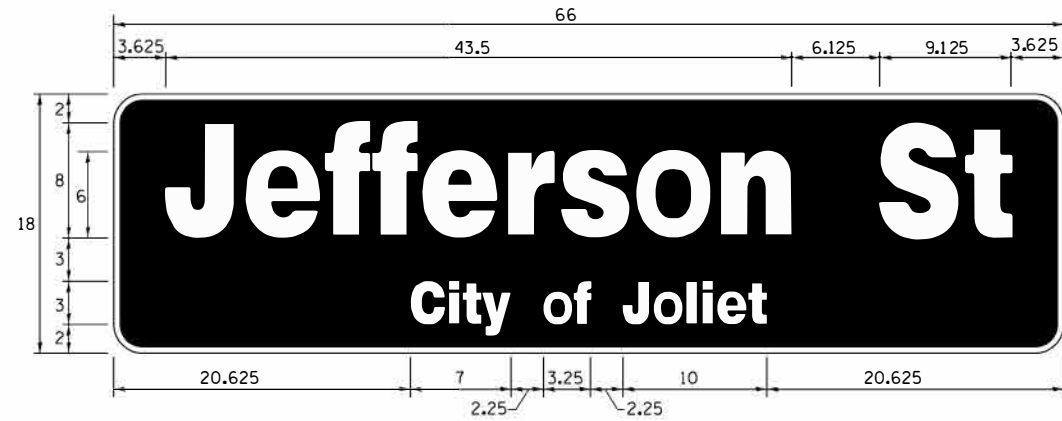
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	90	49
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

**1** REVISED 4/7/2020  
**TS 22527**  
**ECON 121**  
**LOCATION NO. 20**



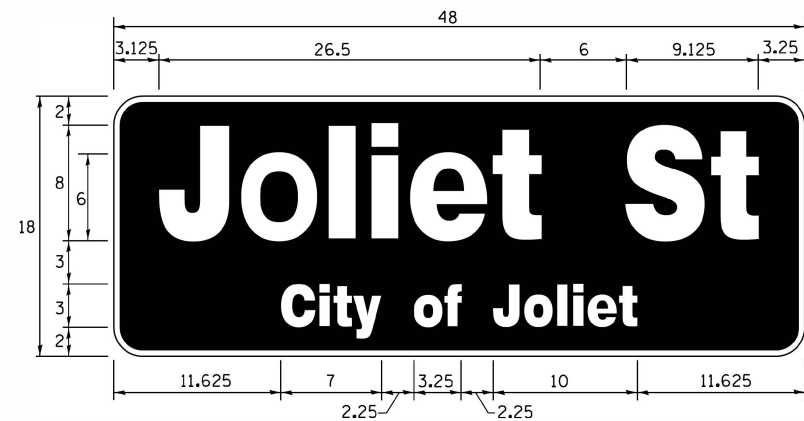
**LED STREET NAME SIGNS**

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	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	4
** DRILLED SHAFT IN ROCK	CU YD	5.5
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
TRANSCIVER - 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	440
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 Roads\CADD\_Sheets\21 TS 22528\_05 Jefferson St-Joliet St-CD2.dgn

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS SUITE 300 CHICAGO, ILLINOIS 60631 TEL: (773) 774-5900</p>	USER NAME = \$USER*	DESIGNED - EA	REVISED - 3/9/2020
		DRAWN - EA, AV	REVISED - <b>4/6/2020</b>
	PLOT SCALE = 48.0000' / 1" =	CHECKED - PKG	REVISED -
	PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

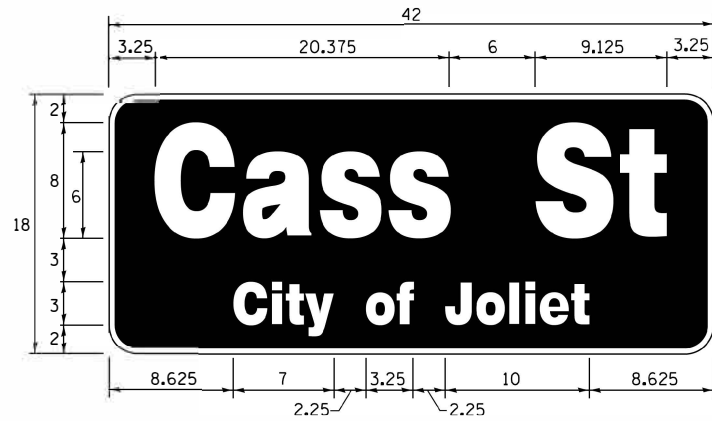
**MAST ARM MOUNTED LED STREET NAME SIGNS  
AND SCHEDULE OF QUANTITIES  
US RTE 30 EB (JEFFERSON ST) AT JOLIET ST**

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	

REVISED 4/7/2020  
**TS 22528**  
**ECON 121**  
**LOCATION NO. 21**

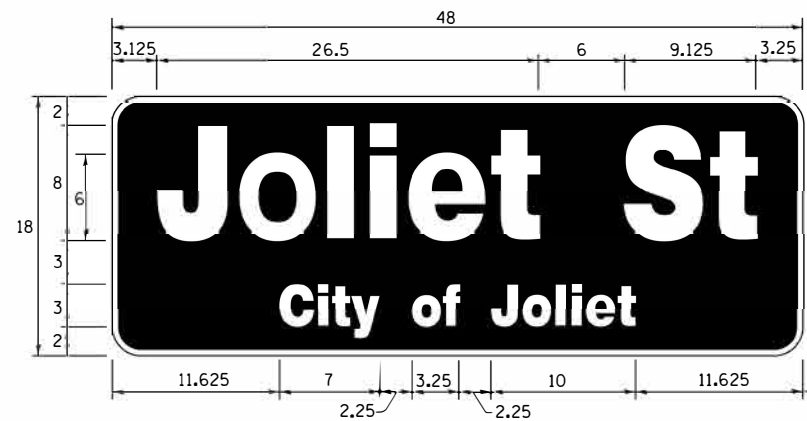
**LED STREET NAME SIGNS**

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	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	4
** DRILLED SHAFT IN ROCK	CU YD	6.5
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	505
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY INFORMATION SIGNING	SQ 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.

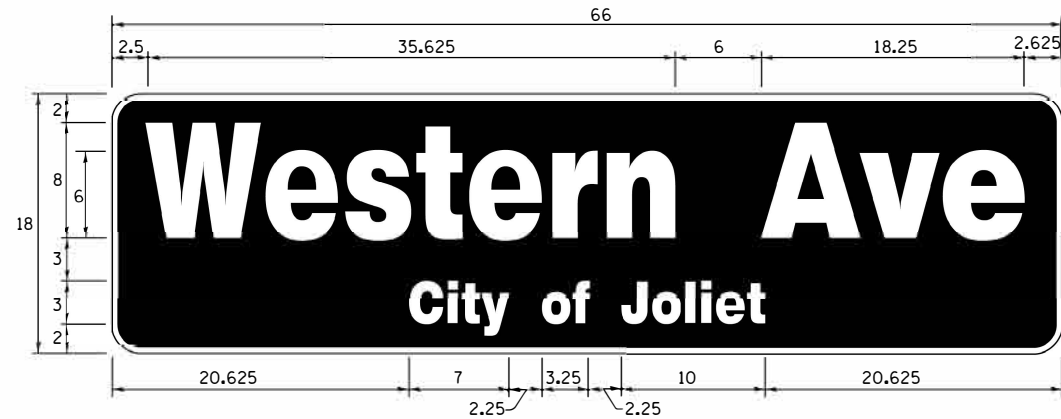
K:\PROJECTS\Projects\2018\DOT Joliet Roads\CADD\Sheets\23 TS-22534-05.Cass St-Joliet St.CDD.dgn

REVIS 4/7/2020  
**TS 22534**  
**ECON 121**  
**LOCATION NO. 23**

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 300 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	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 US RTE 30 WB (CASS ST) AT JOLIET ST	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48.00000' / 1" =	CHECKED - PKG	REVISED - 4/6/2020			VAR	2018-141-TS&I	WILL	90	59
	PLOT DATE = \$DATE*	DATE - 2/6/2020	REVISED -	SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

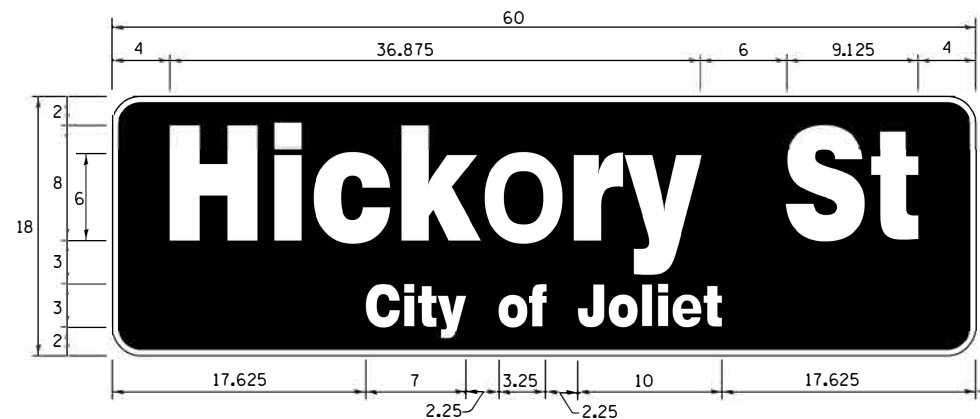
**LED STREET NAME SIGNS**

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	5
** DRILLED SHAFT IN ROCK	CU YD	8
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	474
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	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 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.

FILE NAME: 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 = 48.00000' / 1" =	DRAWN - EA, AV	REVISED - <b>4/6/2020</b>
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 WB (WESTERN AVE) AT HICKORY ST**

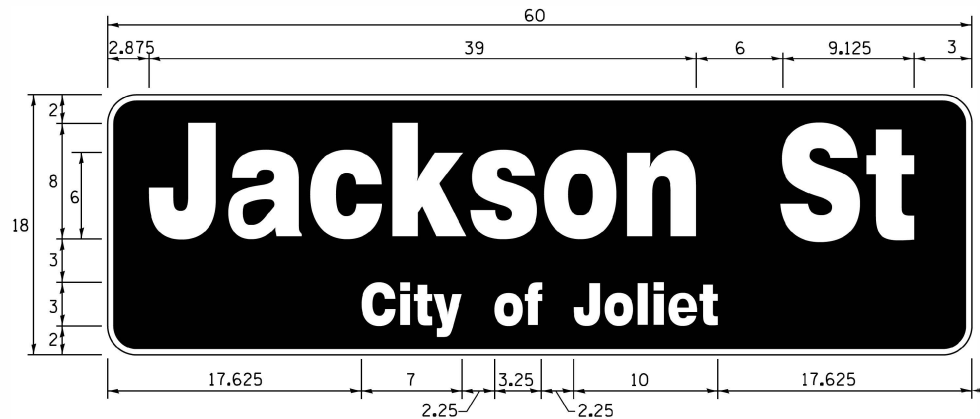
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

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	

**REVIS** 4/7/2020  
**TS 22533**  
**ECON 121**  
**LOCATION NO. 24**

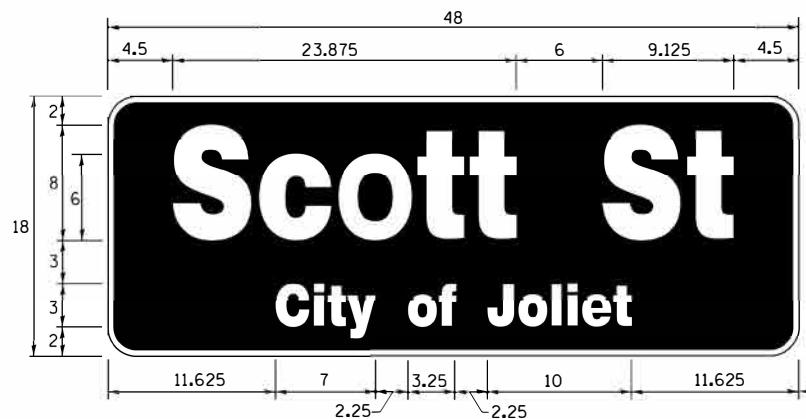
**LED STREET NAME SIGNS**

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	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.

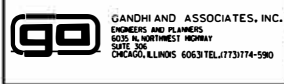
**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	4.5
** DRILLED SHAFT IN ROCK	CU YD	8
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
TRANSCIEIVER - 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	613
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.

FILE NAME: K:\PROJECTS\Projects\Joliet\Roads\CADD\_Sheets\30\_TS\_21802\_05\_Jackson St-LI\_53 Scott St\_C02.dgn



USER NAME = #USER#	DESIGNED - EA	REVISED - 3/9/2020
	DRAWN - EA, AV	REVISED - <b>4/6/2020</b>
PLOT SCALE = 48.00000' / 1" =	CHECKED - PKG	REVISED -
PLOT DATE = #DATE#	DATE - 2/6/2020	REVISED -

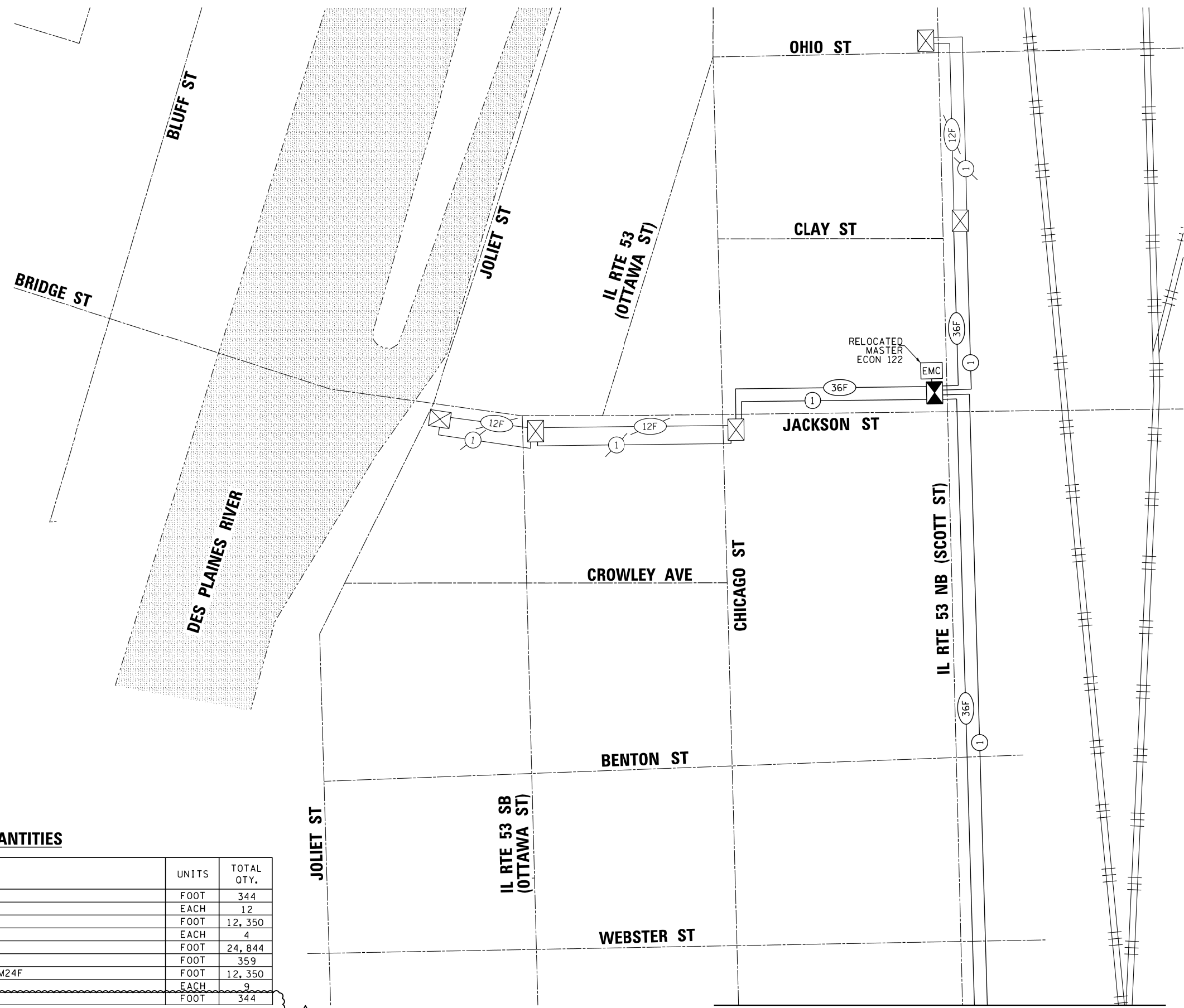
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED LED STREET NAME SIGNS  
AND SCHEDULE OF QUANTITIES  
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	69
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

REVIS 4/7/2020  
TS 21802  
ECON 122  
LOCATION NO. 30



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
DIRECTIONAL BORING THROUGH ROCK	FOOT	344

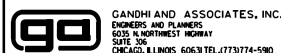
•• NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN BORING FOR CONDUIT.



MATCH LINE "B"  
SEE SHEET 2 OF 3

REVISD 4/7/2020  
**ECON 121, 122 & 123**

FILE NAME = K:\PROJECTS\Projects\_2018\DOT Joliet\_Roads\CADD\_Sheets\BLT\_21802\_Schem\_Interconnect\_3.dgn



GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
5015 N. NORTHWEST HIGHWAY  
SUITE 300  
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = #USER#	DESIGNED - EA	REVISED - 3/9/2020
	DRAWN - EA, AV	REVISED - 4/6/2020
PLOT SCALE = 200.0000' / 1"	CHECKED - PKG	REVISED -
PLOT DATE = #DATE#	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
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	