

CONSTRUCTION NOTES

1. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
2. THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 16 FT. MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.
3. THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES.
4. ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM WITH A NATURAL FINISH.
5. ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.
6. THE #18 3-PAIR TWISTED/SHIELDED CABLE SHALL HAVE THE SAME SLACK AS OTHER SIGNAL CABLE AND WILL BE MEASURED FOR PAYMENT.
7. ALL DETECTOR LOOPS SHALL UTILIZE A SEPARATE PAIR OF LEAD-INS.
8. A TYPE II SPLICE SHALL BE USED FOR ALL DETECTOR LEAD-INS.
9. THE PROPOSED DETECTOR LOOPS SHALL BE CUT IN THE EXISTING PAVEMENT, MILLED SURFACE, OR BINDER COURSE BEFORE THE FINAL OVERLAY. THE RISER AREA SHALL BE CHIPPED OUT AND FILLED WITH EPOXY. THIS WORK SHALL BE INCLUDED IN PRICE FOR DETECTOR LOOPS.
10. ALL DETECTOR LOOPS SHALL BE INSTALLED IN THE CENTER OF THEIR RESPECTIVE TRAVEL LANES. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR VERIFICATION OF DETECTOR PLACEMENT BEFORE INSTALLATION.
11. THE REMOVAL AND REPLACEMENT OF BITUMINOUS SHOULDER FOR INSTALLATION OF THE DETECTOR LOOP LEAD-IN SHALL BE INCLUDED IN THE PRICE FOR DETECTOR LOOPS.
12. PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
13. THE HANDHOLE SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
14. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
15. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.
16. THE TRAFFIC SIGNAL CONTROLLER SHALL BE ORIENTED SO THAT THE DOOR IS FACING AWAY FROM TRAFFIC.
17. THE DOUBLE HANDHOLE SHALL NOT BE USED IN LIEU OF THE CONTROLLER FOUNDATION PAD.
18. THE CONTRACTOR MAY ELECT TO PUSH A CONDUIT THAT IS SHOWN TO BE TRENCHED ON THE PLANS. HOWEVER, THIS WORK WILL BE MEASURED FOR PAYMENT AND PAID FOR AS CONDUIT IN TRENCH OF THE TYPE AND SIZE SPECIFIED AND TRENCH AND BACKFILL FOR ELECTRICAL WORK.
19. THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POST FOUNDATIONS, AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
20. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.
21. THE EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THE TEMPORARY AND/OR PROPOSED TRAFFIC SIGNALS.
22. ANY MAINTENANCE OF EXISTING TRAFFIC SIGNALS SHALL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
23. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
25. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
26. ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS, AND PHOTOCCELL RELAYS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING DEPARTMENT LIGHTING AND TRAFFIC SIGNAL FACILITIES. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE.
28. THE PROPOSED CONDUIT SHALL BE COUPLED TO THE EXISTING CONDUIT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PROPOSED CONDUIT PAY ITEMS.

TRAFFIC SIGNAL AND OVERHEAD LIGHTING SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY.	IL 9 & AVE. A	IL 9 & IL 78	IL 9 & FIRST
SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	40		20	20
SERVICE INSTALLATION, TYPE B	EACH	3	1	1	1
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	1472	288	662	522
CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	22	22		
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	81	18	33	30
CONDUIT IN TRENCH, 3 1/2" DIA., PVC	FOOT	691	38	361	292
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	10	1	5	4
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2		1	1
ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 1/C NO. 6	FOOT	2620	544	1072	1004
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2266	366	1056	844
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PC CONTROL, 250 W	EACH	4			4
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PC CONTROL, 400 W	EACH	6	2	4	X
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2	1		1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1		1	
MASTER CONTROLLER (SPECIAL)	EACH	1		1	
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	4782	1165	1820	1797
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	4899	508	2502	1889
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	3458.5	813.5	1391.5	1253.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1	1		
STEEL MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1	1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	1	1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1	1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	3			3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1		1	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1			1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	3		3	
CONCRETE FOUNDATION, TYPE D	FOOT	7		3.5	3.5
CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	10	10		
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	69		15	54
CONCRETE FOUNDATION, TYPE E, 42-INCH DIAMETER	FOOT	63		63	
DRILL EXISTING FOUNDATION	EACH	1	1		
DRILL EXISTING HANDHOLE	EACH	5	5		
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12	3	5	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	10	3	3	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	9		5	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	8		4	4
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	12	4	4	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	20	3	9	8
INDUCTIVE LOOP DETECTOR	EACH	25	3	13	9
DETECTOR LOOP, TYPE I	FOOT	3045	208	1613	1224
PEDESTRIAN PUSH-BUTTON	EACH	24	8	8	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2		1	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	1	1	1
REMOVE EXISTING HANDHOLE	EACH	17	2	9	6
REMOVE EXISTING CONCRETE FOUNDATION	EACH	11	1	5	5
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	4438	545	3139	754
CLOSED CIRCUIT TELEVISION DOME CAMERA	EACH	1		1	
BATTERY BACKUP SYSTEM WITH CABINET	EACH	1		1	
CAT 5 ETHERNET CABLE	FOOT	72		72	
ADJUST EXISTING DETECTOR LOOP RISER	EACH	2	1		1
SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	1	1		
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1346	365	509	472

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF TRAFFIC, RANDY LANINGA, AT (309) 671-4477 TO OBTAIN APPROVAL FOR ALL MAST ARM AND TRAFFIC SIGNAL POST FOUNDATION LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE LIABLE FOR ALL COSTS REQUIRED TO REMOVE OR RELOCATE FACILITIES THAT WERE CONSTRUCTED WITHOUT OBTAINING LOCATION APPROVAL.

NOT TO SCALE
TRAFFIC SIGNALS
SHEET 1 OF 23

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL CONSTRUCTION NOTES AND SCHEDULE OF QUANTITIES	FULL RTE.	SECTION	COUNTY	TOTAL SHEET NO.
FILE#		DRAWN	REVISED			605 (IL 9)		FILTON	125
		CHECKED	REVISED			22 (IL 78)	(41Z,135R,4W1CS)	CONTRACT NO. 68877	61
		DATE	REVISED			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. (ILLINOIS) FED. AND PROJECT