

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 LIGHTING CONTROLLERS 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.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY.	IL 29 & LASALLE	IL 29 & MAIN /WESLEY	OVERHEAD LIGHTING
SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	6	3	3	
SERVICE INSTALLATION, TYPE B	EACH	1	0.5	0.5	
CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	375	160	215	
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	312	24	288	
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	208		208	
CONDUIT IN TRENCH, 3 1/2" DIA., PVC	FOOT	146		146	
CONDUIT PUSHED, 3" DIA., PVC	FOOT	204		204	
CONDUIT PUSHED, 3 1/2" DIA., PVC	FOOT	130		130	
JUNCTION BOX (SPECIAL)	EACH	1		1	
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	4		4	
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1		1	
ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 1/C NO. 6	FOOT	2021	909	56	1056
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	742	160	582	
TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)	FOOT	36	24	12	
LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	4			4
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT-TWIN	EACH	1			1
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	6.5			6.5
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2	1	1	
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2411		2411	
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1649.5		1649.5	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	3274	1068.5	2205.5	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	2		2	
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1		1	
STEEL MAST ARM ASSEMBLY AND POLE, 70 FT.	EACH	2		2	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1		1	
CONCRETE FOUNDATION, TYPE A	FOOT	6		6	
CONCRETE FOUNDATION, TYPE D	FOOT	3.5		3.5	
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	26		26	
CONCRETE FOUNDATION, TYPE E, 42-INCH DIAMETER	FOOT	50		50	
DRILL EXISTING HANDHOLE	EACH	3	2	1	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6		6	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3		3	
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	3	2	1	
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2		2	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10	2	8	
INDUCTIVE LOOP DETECTOR	EACH	21	10	11	
DETECTOR LOOP, TYPE I	FOOT	1871	740	1131	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1	1		
REMOVE EXISTING HANDHOLE	EACH	10		10	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6		6	
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	540.5		540.5	
BATTERY BACKUP SYSTEM WITH CABINET	EACH	1		1	
BREAKAWAY DEVICE, TRANS BASE, 15 INCH BOLT CIRCLE	EACH	1			1
BOND TRAFFIC SIGNAL STRUCTURE	EACH	11	11		
ADJUST EXISTING DETECTOR LOOP RISER	EACH	3	2	1	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	L SUM	1		1	
LIGHTING CONTROLLER, SPECIAL	EACH	1			1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1974	994.5	740.5	239

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 5 OF 12

FILE NAME =	USER NAME = jebbidism	DESIGNED -	REVISED -
68590 - IL 29 & Wesley Traffic Signals	Panel 3-12-10.dgn	DRAWN -	REVISED -
	PLOT SCALE = 49.7260' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CONSTRUCTION NOTES  
AND SCHEDULE OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(11)RS-9L-2,N,TS-4	TAZEWELL	102	49
CONTRACT NO. 68590				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				