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. PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
12. 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.
13. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
14. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC CONDUIT.
15. THE TRAFFIC SIGNAL CONTROLLER SHALL BE ORIENTED SO THAT THE DOOR IS FACING AWAY FROM TRAFFIC.
16. THE DOUBLE HANDHOLE SHALL NOT BE USED IN LIEU OF THE CONTROLLER FOUNDATION PAD.
17. 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 VERFICATION BEFORE INSTALLATION.
18. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.
19. THE EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THE PROPOSED TRAFFIC SIGNALS.
20. ANY MAINTENANCE OF EXISTING TRAFFIC SIGNALS SHALL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
21. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
22. 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.
23. ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS, AND PHOTOCELL RELAYS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
24. 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.
25. 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.
26. THE CONTRACTOR SHALL REMOVE ALL SIGNS FROM THE EXISTING MAST ARM AND TRAFFIC SIGNAL POSTS AND INSTALL THEM ON THE PROPOSED MAST ARMS AND PROPOSED TRAFFIC SIGNAL POSTS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL POSTS.

SCHEDULE OF QUANTITIES - US 24 (MCCLUGAGE RD.) & IL 8/BUS 24 (WASHINGTON RD.)

ITEM DESCRIPTION	UNIT	TOTAL QTY.	TRAFFIC SIGNALS	OVERHEAD LIGHTING
SERVICE INSTALLATION, TYPE B	EACH	1	1	
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1370	1370	
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	160	160	
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1	1	
ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 1/C NO. 6	FOOT	1632.5	848.5	784
LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	3		3
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1273	1273	
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1063.5	1063.5	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	1442	1442	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	2	2	
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1	1	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1	1	
CONCRETE FOUNDATION, TYPE A	FOOT	3	3	
CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	10	10	
CONCRETE FOUNDATION, TYPE E, 42-INCH DIAMETER	FOOT	21	21	
DRILL EXISTING HANDHOLE	EACH	4	4	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6	6	
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	3	3	
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1	1	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2	2	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7	7	
INDUCTIVE LOOP DETECTOR	EACH	10	10	
DETECTOR LOOP, TYPE I	FOOT	399	399	
PEDESTRIAN PUSH-BUTTON	EACH	2	2	
MODIFY EXISTING CONTROLLER CABINET	EACH	1	1	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1	
REBUILD EXISTING HANDHOLE	EACH	1	1	
REMOVE EXISTING HANDHOLE	EACH	2	2	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2	2	
PHOTOCELL RELAY	EACH	1		1
REBUILD EXISTING HANDHOLE, SPECIAL	EACH	1	1	
COMMUNICATIONS VAULT	EACH	1	1	
TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	1	1	

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 10

FILE NAME = 68A66 - Business 24 IL 8 Traffic Signals (Final 12-16-11.dgn	USER NAME = bayermj	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 60.2740 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CONSTRUCTION NOTES AND SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
399	(35,36)N-1	TAZEWELL	60	30
		CONTRACT NO. 68A66		
		ILLINOIS FED. AID PROJECT		