

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(2Z) N & TS-3	MARSHALL	21	11
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS	FED. AID PROJECT	

* FAP 649 (IL 17) & FAS 2370 (IL 26)

TRAFFIC SIGNAL CONSTRUCTION NOTES

ALL TRAFFIC SIGNALS AND PEDESTRIAN SECTIONS SHALL HAVE 300MM (12") SINGLE LED LENSES.
THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 4.88 METER (16') MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.
THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES.
ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM SCHEDULE 80.
ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.
THE #18 3-PAIR TWISTED/SHIELDED CABLE SHALL HAVE THE SAME SLACK AS OTHER SIGNAL CABLE AND WILL BE MEASURED FOR PAYMENT.
ALL DETECTOR LOOPS SHALL UTILIZE A SEPARATE PAIR OF LEAD-INS.
A TYPE II SPLICE SHALL BE USED FOR ALL DETECTOR LEAD-INS.
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.
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 THE PRICE FOR DETECTOR LOOPS.
THE REMOVAL AND REPLACEMENT OF BITUMINOUS SHOULDER FOR INSTALLATION OF THE DETECTOR LOOP LEAD-IN SHALL BE CONSIDERED INCLUDED IN THE PRICE FOR DETECTOR LOOPS.
PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
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.
THE LOCATION OF ALL UTILITIES SHALL FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC CONDUIT PUSHED OR TRENCHED.
THE TRAFFIC SIGNAL CONTROLLER SHALL BE ORIENTED SO THAT THE DOOR IS FACING AWAY FROM TRAFFIC .
THE DOUBLE HANDHOLE SHALL NOT BE USED IN LIEU OF THE CONTROLLER FOUNDATION PAD.
THE CONTRACTOR MAY ELECT TO PUSH A CONDUIT THAT IS SHOWN TO BE TRENCHED ON THE PLANS. 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.
THE LOCATIONS FOR HANDHOLES AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
ANY MAINTENANCE OF EXISTING TRAFFIC SIGNALS SHALL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
ALL SIGNAL BASES SHALL BE LOCATED AT 5 FOOT MINIMUM CLEARANCE FROM CURB UNLESS OTHERWISE DIRECTED BY ENGINEER.
A 1/4" DIAMETER CONTINUOUS HILON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE CONDUIT PAY ITEM.
NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES. AS NECESSARY, INCIDENTAL TO THE CONDUIT PAY ITEM.
ALL THREADS OF BOLTS USED IN TRAFFIC COMPONENT ASSEMBLIES SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND. SIMILAR TO LEAD PLATE PRIOR TO ASSEMBLY.

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
72000200	SIGN PANEL - TYPE 2	SO FT	40
80500200	SERVICE INSTALLATION, TYPE B (MODIFIED)	EACH	1
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	557
81012700	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	74
81013000	CONDUIT IN TRENCH, 3-1/2" DIA., PVC	FOOT	17
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	195
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	150
81021370	CONDUIT PUSHED, 3-1/2" DIA., PVC	FOOT	62
81400400	CONCRETE HANDHOLE	EACH	5
81400600	CONCRETE DOUBLE HANDHOLE	EACH	1
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	646
81702130	ELECTRIC CABLE IN CONDUIT, 600 (XLP-TYPE USE) 1/C NO. 6	FOOT	1872
82102400	LUMINAIRE SODIUM VAPOR HORIZONTAL MOUNT 400 WATT	EACH	2
82500605	LIGHTING CONTROLLER PHOTOCELL RELAY	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86000100	MASTER CONTROLLER	EACH	1
87302130	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	973
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1794
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	548
87601200	PEDESTRIAN PUSH BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	2
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
87800215	CONCRETE FOUNDATION, TYPE D	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	46
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88500100	INDUCTIVE LOOP DETECTOR	EACH	4
88600100	DETECTOR LOOP, TYPE 1	FOOT	455
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
89502380	REMOVE EXISTING HANDHOLE	EACH	4
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	574
X8801300	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
X8810620	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	4

PLOT DATE = *DATE*
 FILE NAME = *FILEL*
 PLOT SCALE = *SCALEL*
 USER NAME = *USERL*

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL NOTES AND
 SCHEDULE OF QUANTITIES
 FAP 649 (IL 17) / FAS 2370 (IL 26)
 SECTION (2Z) N & TS-3
 MARSHALL COUNTY
 SCALE: VERT. 1" = 20'
 HORIZ. 1 1/2" = 20'
 DATE _____ DRAWN BY ARR
 CHECKED BY MVF