

SCHEDULE OF TRAFFIC SIGNAL ITEMS

| UNIT | ITEM | UNIT | WB RAMP | EB RAMP | BLACK JACK | TEMP TRAFFIC SIGNALS | INTER CONN-ECT | TOTAL QTY. |
|------------|--|-------|---------|---------|------------|----------------------|----------------|------------|
| • 80500205 | SERVICE INSTALLATION, TYPE B (MODIFIED) | EACH | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 2.0 |
| 81400400 | CONCRETE HANDHOLE | EACH | 3.0 | 0.0 | 3.0 | 0.0 | 13.0 | 19.0 |
| 81400600 | CONCRETE DOUBLE HANDHOLE | EACH | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 2.0 |
| 82102400 | LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT | EACH | 3.0 | 0.0 | 4.0 | 0.0 | 0.0 | 7.0 |
| 85700200 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET | EACH | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 2.0 |
| 86400100 | TRANSCEIVER - FIBER OPTIC | EACH | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 2.0 |
| 88200110 | TRAFFIC SIGNAL BACKPLATE LOUVERED | EACH | 8.0 | 0.0 | 12.0 | 0.0 | 0.0 | 20.0 |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| 89000200 | TEMPORARY TRAFFIC SIGNAL INSTALLATION | EACH | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| 89502380 | REMOVE EXISTING HANDHOLE | EACH | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 5.0 |
| 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 5.0 |
| M8100260 | CONDUIT IN TRENCH, 50 MM DIA, PVC | METER | 23.0 | 0.0 | 70.0 | 0.0 | 2719.0 | 2812.0 |
| M8100280 | CONDUIT IN TRENCH, 75 MM DIA, PVC | METER | 25.0 | 0.0 | 11.0 | 0.0 | 0.0 | 36.0 |
| M8100290 | CONDUIT IN TRENCH, 90 MM DIA, PVC | METER | 22.0 | 0.0 | 42.0 | 0.0 | 0.0 | 64.0 |
| M8101450 | CONDUIT PUSHED, 50 MM DIA, PVC | METER | 43.0 | 0.0 | 64.0 | 0.0 | 0.0 | 107.0 |
| M8101480 | CONDUIT PUSHED, 90 MM DIA, PVC | METER | 43.0 | 0.0 | 64.0 | 0.0 | 0.0 | 107.0 |
| M8110190 | CONDUIT ATTACHED TO STRUCTURE, 90MM DIA., GALVANIZED STEEL | METER | 0.0 | 0.0 | 6.1 | 0.0 | 0.0 | 6.1 |
| M8150200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | METER | 70.0 | 0.0 | 80.0 | 0.0 | 1751.0 | 1901.0 |
| • M8170040 | ELECTRIC CABLE IN CONDUIT, 600 V (XLP-TYPE USE) 1/C NO. 6 | METER | 24.0 | 0.0 | 27.0 | 0.0 | 0.0 | 51.0 |
| | LIGHT POLE, GALVANIZED STEEL, 13.5M M.H., 4.5 M DAVIT ARM | EACH | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| M8731220 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | METER | 0.0 | 0.0 | 63.0 | 0.0 | 0.0 | 63.0 |
| M8731240 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | METER | 260.0 | 0.0 | 593.0 | 0.0 | 0.0 | 853.0 |
| M8731250 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | METER | 191.0 | 0.0 | 53.0 | 0.0 | 0.0 | 244.0 |
| M8750510 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER | EACH | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| • M8770760 | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 11.58 METER | EACH | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| M8780100 | CONCRETE FOUNDATION, TYPE A | METER | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 |
| M8780200 | CONCRETE FOUNDATION, TYPE D | METER | 1.1 | 0.0 | 1.1 | 0.0 | 0.0 | 2.2 |
| M8780400 | CONCRETE FOUNDATION, TYPE E, 750 MM DIAMETER | METER | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| MX871055 | FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F | METER | 0.0 | 0.0 | 0.0 | 0.0 | 1516.0 | 1516.0 |
| • MX877017 | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 15.850 METER | EACH | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 |
| • MX877020 | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 16.76 METER | EACH | 2.0 | 0.0 | 1.0 | 0.0 | 0.0 | 3.0 |
| MX878030 | CONCRETE FOUNDATION, TYPE E, 900 MM DIAMETER | METER | 9.2 | 0.0 | 16.0 | 0.0 | 0.0 | 25.2 |
| • X0323481 | VIDEO VEHICLE DETECTION, 4 CAMERAS | EACH | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 2.0 |
| • X0324134 | BATTERY BACKUP SYSTEM WITH CABINET | EACH | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 3.0 |
| X8800020 | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 7.0 | 0.0 | 11.0 | 0.0 | 0.0 | 18.0 |
| X8800035 | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4.0 | 0.0 | 3.0 | 0.0 | 0.0 | 7.0 |
| X8800038 | SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED | EACH | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| X8800040 | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 3.0 | 0.0 | 1.0 | 0.0 | 0.0 | 4.0 |
| X8810610 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |

* SEE SPECIAL PROVISIONS

CONTRACT 11 TRAFFIC SIGNAL CONSTRUCTION NOTES

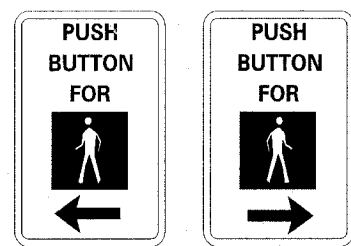
1. THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 4.88 METER (16') MINIMUM CLEARANCE.
2. THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES, UNLESS INDICATED OTHERWISE ON THE PLANS.
3. ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL, SCHEDULE 40.
4. ALL BRACKET MOUNTS AND ASSOCIATED PIPES ARE TO BE UNPAINTED ALUMINUM, SCHEDULE 80.
5. ALL SIGNAL CABINETS SHALL BE UNPAINTED ALUMINUM
6. ALL TRAFFIC SIGNAL HEADS AND PEDESTRIAN SECTIONS SHALL BE 300-MILLIMETER (12") WITH LED LENSES.
7. BACKPLATES SHALL BE POLYCARBONATE WITH A DEEP BACK FLANGE.
8. PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES. THIS WORK SHALL BE PAID FOR AS CONCRETE HANDHOLES.
9. THE HANDHOLE SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN OR GROUND LINE.
10. THE DOUBLE HANDHOLE SHALL NOT BE USED IN LIEU OF THE CONTROLLER FOUNDATION PAD.
11. THE TRAFFIC SIGNAL CONTROLLER SHALL BE ORIENTED SO THAT THE DOOR IS FACING AWAY FROM TRAFFIC.
12. 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.
13. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC CONDUIT PUSHED OR TRENCHED.
14. A 12GA. STRANDED THHN, INSULATED ORANGE TRACER WIRE IS TO BE PULLED INTO ALL CONDUITS THAT CONTAIN FIBER OPTIC CABLE. THIS WORK SHALL BE DONE AT THE SAME TIME THE FIBER OPTIC CABLE IS PULLED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.
15. 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.
16. ALL REMOVAL AND SURPLUS ITEMS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
17. ANY MAINTENANCE OF EXISTING TRAFFIC SIGNALS SHALL BE CONSIDERED AS EXTRA WORK AND SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04.
18. ALL MAST ARMS, SIGNAL HEADS, POSTS AND LUMINAIRES REMOVED BE DELIVERED TO 6500 W RT 150, EDWARDS, IL. ALL CONTROLLER CABINETS AND OTHER REMOVAL ITEMS SHALL BE RETURNED TO 5826 N KNOXVILLE, PEORIA, IL 61614.
19. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CALL J.U.L.I.E. AT 800-892-0123.
20. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED WITH A SOLID BLACK COVER PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL PAY ITEMS.
21. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 600-MILLIMETER MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
22. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEAD SHALL BE SOLID, SOFT COPPER.
23. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE TRENCH AND BACKFILL FOR ELECTRICAL WORK PAY ITEM.
24. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
25. ALL SIGNAL BASES SHALL BE LOCATED A MINIMUM OF 1.8 METERS FROM THE FACE OF CURB UNLESS OTHERWISE DIRECTED BY AN ENGINEER.
26. ALL NEW TRAFFIC AND PEDESTRIAN SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES WILL NOT BE ALLOWED.
27. GROUND RODS SHALL BE SOLID COPPER ALLOY OR COPPER CLAD STEEL.
28. ALL MAST ARM POLE BASES SHALL BE PROTECTED BY A STAINLESS STEEL MESH SCREENING AROUND THE BASE BOLTS TO PREVENT RODENT ENTRY. THE MESH SHALL BE SECURED TO THE BASE BY STAINLESS STEEL BANDING AS INCIDENTAL TO THE INDIVIDUAL MAST ARM ASSEMBLY PAY ITEM.
29. THE CONTRACTOR SHALL CONTACT THE AMEREN CILCO PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
30. ALL HANDHOLE FRAMES AND RINGS SHALL BE GROUNDED AND BOUNDED TO THE TRAFFIC SIGNAL EQUIPMENT GROUNDING CONDUCTOR.
31. MAST ARMS SHALL BE LOCATED INSIDE OF ISLANDS WITH A MINIMUM 5 FOOT CLEARANCE FROM THE MASS ARM TO THE FACE OF CURB.

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|-----------------------|---------|----------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 74 | * | TAZEWELL | 1366 | 315 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. 4 | | | ILLINOIS FED. AID PROJECT | |

(90-111R-2;90A13,14,14-1R-1

PEDESTRIAN CROSSING SIGN DETAIL

R10 - 4b

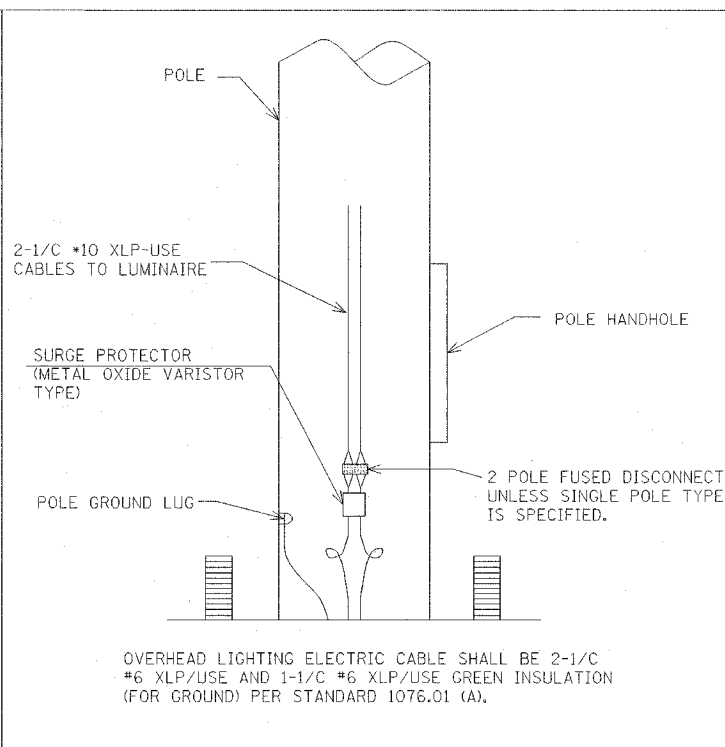


DIMENSIONS: 225 mm (9" TYP.) x 300 mm (12" TYP.)
 LENCEND AND BORDER: NON-REFLECTORIZED BLACK
 BACKGROUND: NON-REFLECTORIZED WHITE

ONE SIGN SHALL BE PROVIDED FOR EACH PUSH-BUTTON. ORIENTATION OF DIRECTIONAL ARROWS TO BE DETERMINED BY PUSH-BUTTON LOCATION

ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL CONSTRUCTION. ALL MOUNTING BOLTS SHALL BE HEX HEAD.

MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSHBUTTON.



| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
|---------------|------|--|
| NAME | DATE | |
| | | SUMMARY OF QUANTITIES AND CONSTRUCTION NOTES |
| | | |
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| | | |
| | | |
| | | |
| DATE 12/20/04 | | SHEET 1 OF 13 |
| DRAWN BY SAM | | CHECKED BY CTH |

