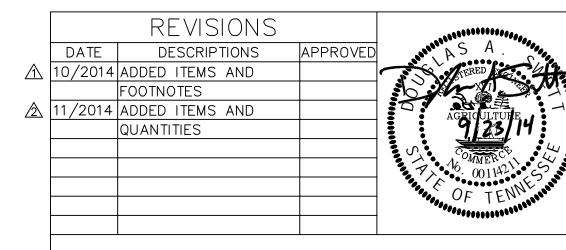
FOOTNOTES:

- 1 TO BE USED AS DIRECTED BY THE ENGINEER.
- 2 SEE SUBSECTION 209.07 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- 3 TO INCLUDE ALL MATERIALS NECESSARY TO PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH TDOT STANDARD DRAWINGS.
- 4 TO INCLUDE ALL HARDWARE, MATERIALS, AND SUPPORTS TO INSTALL SIGN. TO BE THREE (3) TOTAL SIGNS. SEE SHEET CL-10 FOR SIGN DETAILS AND PLACEMENT.
- 1 "GRADE CROSSING ADVANCE WARNING" W10-1
- 2 "GRADE CROSSING ADVANCE WARNING" W10-2L
- 3 "GRADE CROSSING ADVANCE WARNING" W10-2R
- 5 TO INCLUDE ALL HARDWARE AND MATERIALS NECESSARY TO ATTACH SIGNS TO PROPOSED MAST ARM. TO BE THREE (3) TOTAL SIGNS. SEE SHEET IL-05 FOR SIGN DETAILS AND PLACEMENT.
- 1 "THRU-LEFT TURN OPTIONAL MOVEMENT LANE CONTROL" R3-6
- 2 "LEFT TURN ONLY" R3-5L
- 6 TO INCLUDE ALL HARDWARE AND MATERIALS NECESSARY TO ATTACH STREET NAME SIGNS TO PROPOSED MAST ARM. TO BE SIX (6) TOTAL SIGNS. SEE SHEETS IL-05 FOR SIGN DETAILS AND PLACEMENT.
- 2 "US HWY 51."
- 2 "NAVY RD."
- 2 "MARTHA ST."
- 7 ALLOWANCE TO COVER THE COST ASSOCIATED WITH POWER CONNECTION FOR THE TRAFFIC SIGNAL OR RDS UNIT FROM THE TRANSFORMER TO THE DEMARCATION POINT.
- 8 SEE CITY OF MEMPHIS STANDARD SPECIFICATIONS FOR "RUGGEDIZED ETHERNET CABINET SWITCH."
- 9 SEE PROJECT SPECIAL PROVISIONS FOR SPECIFICATIONS.
- 10 SEE CITY OF MEMPHIS STANDARD SPECIFICATIONS FOR "SERIAL DEVICE SERVER."
- 11 SEE PROJECT SPECIAL PROVISIONS FOR RADAR DETECTION EQUIPMENT. ITEM TO INCLUDE RDS POWER CABLE AT LOCATIONS WHERE SECONDARY RDS CABINET IS PRESENT.
- 12 SEE PROJECT SPECIAL PROVISIONS FOR UTILITY CABINETS. TYPE A CABINETS ARE FOR PRIMARY CABINETS. TYPE D CABINETS ARE FOR SECONDARY CABINETS. TYPE D CABINET TO INCLUDE ALL NECESSARY CABLING TO CONNECT TO TYPE A CABINET.
- 13 SEE PROJECT SPECIAL PROVISIONS FOR SYSTEM INTEGRATION.
 - 14 COST INCLUDES ALL LABOR AND MATERIALS (REPAIR LANDSCAPING, REMOVING EXISTING PULL BOX, AND OTHER MISCELLANEOUS MATERIALS) TO COMPLETE PULL BOX INSTALLATION.
 - 15 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH POWER CONNECTION FOR TRAFFIC SIGNAL OR RDS UNIT FROM THE DEMARCATION POINT TO THE CABINET.
 - 16 CONTRACTOR SHALL INSTALL A TRACER WIRE WITH THE FIBER OPTIC CABLE FOR ALL CONDUIT ROUTING. TRACER WIRE SHALL BE 10 AWG STRANDED COPPER CONDUCTOR CABLE WITH BOTH THHN AND THWN RATINGS AND YELLOW IN COLOR.
 - 17 TO INCLUDE ALL MATERIALS NECESSARY TO ATTACH SPAN WIRE TO EXISTING POLE AND CITY HALL BUILDING AND MATERIALS NECESSARY IN ROUTING CABLES TO CITY HALL BUILDING.
 - 18 SEE CONSTRUCTION DETAIL SHEETS FOR BRIDGE ATTACHEMENT DETAILS. ITEM TO INCLUDE ALL MATERIALS NECESSARY TO ATTACH CONDUIT TO BRIDGE.
 - 19 TO BE ITERIS VANTAGE SYSTEM OR APPROVED EQUIVALENT. INCLUDES DETECTION CAMERAS, PROCESSOR UNIT, CARD RACK, VIDEO DETECTION REMOTE MANAGEMENT CARD WITH ETHERNET INTERFACE, POWER SUPPLY UNIT, SURGE PROTECTION EQUIPMENT (AN EDCO HSP-121BT1RU SERIES SURGE PROTECTION), 10" LCD COLOR MONITOR, MOUSE AND ALL CABLING, CONNECTIONS AND HARDWARE TO COMPLETE THE INSTALLATION OF A FULLY FUNCTIONAL VIDEO DETECTION SYSTEM. (TO BE VANTAGE VECTOR SYSTEM FOR MAST ARM MOUNTED CAMERAS WITH ADVANCE DETECTION. SEE TABULATED QUANTITIES SHEET FOR MOUNT TYPE.)
 - 20 THE TRAFFIC SIGNAL CONTROLLER SHALL BE AN EAGLE EPAC M52 KEYBOARD UNIT OR APPROVED EQUIVALENT WITH NTCIP COMPLIANT SOFTWARE AND SEPAC, BUILT-IN ETHERNET PORT, AND BUILT-IN STRETCH AND DELAY FEATURES FOR EACH PHASE. THE TRAFFIC CONTROLLER INSTALLATION ALONG WITH ALL AUXILIARY EQUIPMENT TO BE INSTALLED IN THE CABINET SHALL BE MANUFACTURED, SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST CITY OF MEMPHIS TRAFFIC SIGNAL CONTROLLER AND CABINET SPECIFICATIONS. THE INSTALLATION SHALL HAVE A 12-CHANNEL MALFUNCTION MONITOR UNIT INSTALLED AS MODEL EDI SSM12LE-P. EACH NEW CONTROLLER CABINET SHALL INCLUDE 4 VEHICLE DETECTOR CARDS (4-CHANNEL) SEPARATE FROM THE QUANTITIES OF ITEM NUMBER
 - 21 INCLUDES CONCRETE FOUNDATION OR SCREW DOWN ANCHOR FOUNDATION AS APPROVED BY THE ENGINEER.
 - 22 INCLUDES CONCRETE FOUNDATION AS APPROVED BY THE ENGINEER.
 - 23 TO INCLUDE SIGNS AND PUSHBUTTONS.

- 24 FOR REPAIR OF EXISTING BRICK PAVING DAMAGED BY THE REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT OR THE INSTALLATION OF NEW TRAFFIC SIGNAL EQUIPMENT.
- 25 QUANTITY IS IN ADDITION TO THE VIDEO DETECTION REMOTE MANAGEMENT CARDS REQUIRED IN ITEM NO. 730-13.02.
- 26 TO BE USED FOR THE INSTALLATION OF PULL BOXES.



DIVISION OF PUBLIC WORKS
CONGESTION MANAGEMENT PROGRAM SIGNAL SYSTEM PROJECT SET #3 SHELBY COUNTY, TN. QUANTITIES

SURVEY: N/A DATE: N/A BOOK: N/A DRAFTED: KHA DATE: <u>08/13</u> _ SCALE: N.T.S. DESIGNED: KHA ___ DATE: <u>08/13</u> CHECKED: <u>DAS</u> DATE: <u>09/14</u> JURISDICTION: ____ SHEET 4 OF 67

Kimley » Horn