

TRAFFIC CONTROL (CONT.)

PREEMPTION PRIORITY CONTROL

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING PREEMPTION DETECTORS, PREEMPTION EMITTERS, PREEMPT PHASE SELECTORS, PREEMPT CONFIRMATION LIGHTS, SIGNAL CABLE, ETC. THE PREEMPTION PRIORITY CONTROL SYSTEM MAY BE RADIO, SIREN OR OPTICALLY (INFRARED LIGHT) ACTIVATED. DETECTORS SHALL BE FURNISHED AND INSTALLED ON MAST ARMS AT LOCATIONS SHOWN ON THE PLANS. PREEMPTION EMITTERS (AS REQUIRED) SHALL BE FURNISHED AND INSTALLED ON *FIVE (5)*

POLICE DEPARTMENT VILLAGE OF MILLERSBURG
VEHICLES. A PREEMPT CONFIRMATION LIGHT, WITH A CLEAR LAMP, SHALL BE INSTALLED ON THE MAST ARMS AS SHOWN ON THE PLANS. THE PREEMPT CONFIRMATION LIGHT SHALL BE VISIBLE TO THE INTERSECTION APPROACH. THE COST OF ALL CABLES, CONNECTORS, TERMINALS, INTERFACE RACKS AND INCIDENTALS TO PROVIDE A COMPLETE PREEMPTION PRIORITY CONTROL SYSTEM SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ALL PREEMPT PRIORITY CONTROL COMPONENTS AT EACH INTERSECTION LOCATION IN PLACE, INSTALLED, WIRED, TESTED AND ACCEPTED.

ITEM 633 - CONTROLLER ITEM, MISC.: PREEMPT PHASE SELECTOR

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A PREEMPT PHASE SELECTOR, INCLUDING WIRING INTERFACE PANELS, IN THE LOCAL CONTROLLER CABINET AND ALL OTHER ACCESSORIES THAT ARE NECESSARY TO MAKE THE PREEMPT PHASE SELECTOR COMPLETELY FUNCTIONAL AND OPERATIONAL AS SHOWN IN THE PLANS. THIS ITEM SHALL ALSO INCLUDE THE EXTRA CABINET SPACE NECESSARY TO BE LOCATED IN THE CONTROLLER CABINETS WHERE INDICATED IN THE PLANS. *THE PHASE SELECTOR SHALL BE COMPATIBLE WITH THE OPTICALLY (INFRARED LIGHT) ACTIVATED PRIORITY CONTROL SYSTEM.* THE PREEMPT PHASE SELECTOR SHALL CONSIST OF A MODULE OR MODULES THAT WILL PROVIDE THE NECESSARY INPUTS TO THE CONTROLLER. THE PREEMPT PHASE SELECTOR SHALL BE SUPPLIED WITH SUFFICIENT QUANTITIES OF CHANNELS TO PROVIDE PREEMPTION FOR ALL APPROACHES TO THE INTERSECTION SEPARATELY. POWER SHALL BE OBTAINED FROM THE PREEMPT PHASE SELECTOR POWER SUPPLY AND NOT FROM THE LOCAL CONTROLLER TIMER.

THE PREEMPT PHASE SELECTOR SHALL HAVE FRONT PANEL INDICATORS FOR ACTIVE PREEMPT CHANNEL STATUS AND SHALL HAVE TEST SWITCHES TO ACTIVATE ALL PREEMPT CHANNELS.

PAYMENT FOR ITEM 633-"CONTROLLER ITEM, MISC.: PREEMPT PHASE SELECTOR" WILL BE MADE AT THE CONTRACT PRICE FOR EACH PREEMPT PHASE SELECTOR COMPLETE AND IN PLACE, INSTALLED IN THE LOCAL CONTROLLER SHOWN IN THE PLANS, WIRED, TESTED AND ACCEPTED.

ITEM 633 - CONTROLLER ITEM, MISC.: PREEMPTION DETECTOR

THIS ITEM CONSIST OF FURNISHING AND INSTALLING PREEMPTION DETECTORS AT THE LOCATIONS SHOWN ON THE PLANS. THE PREEMPTION DETECTORS SHALL BE COMPATIBLE WITH OPTICAL (INFRARED LIGHT) TYPE PREEMPTION EMITTERS. THE PREEMPTION DETECTORS SHALL BE CAPABLE OF SENDING THE PROPER ELECTRICAL SIGNAL TO THE TRAFFIC SIGNAL CONTROLLERS VIA A 4-CONDUCTOR, NO. 20 AWG CABLE. PREEMPTION DETECTORS SHALL BE SUPPLIED WITH MAST ARM MOUNTING HARDWARE.

PAYMENT FOR ITEM 633 - "CONTROLLER ITEM, MISC.: PREEMPTION DETECTOR" WILL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH PREEMPTION DETECTOR AS SHOWN IN THE PLANS COMPLETE, IN PLACE, TESTED AND ACCEPTED.

ITEM 633 - CONTROLLER ITEM, MISC.: PREEMPT CONFIRMATION LIGHT

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A PREEMPTION CONFIRMATION LIGHT COMPLETELY FUNCTIONAL AND OPERATIONAL AS SHOWN IN THE PLANS.

A CONFIRMATION LIGHT SHALL BE SUPPLIED FOR EACH INTERSECTION, AS SHOWN ON THE TRAFFIC SIGNAL PLAN SHEETS, TO INDICATE THAT THE EMERGENCY VEHICLE HAS ACHIEVED CONTROL OF THE TRAFFIC SIGNAL. THE CONFIRMATION LIGHT SHALL BE AN OUTDOOR VAPOR TIGHT ALUMINUM LIGHTING FIXTURE. IT SHALL BE SUPPLIED WITH A CLEAR GLOBE, 150 WATT INCANDESCENT LAMP AND SIGNAL SUPPORT MOUNTING HARDWARE. THE CONFIRMATION LIGHT SHALL BE ORIENTED PERPENDICULAR TO APPROACHING TRAFFIC IN ORDER TO BE VISIBLE TO THE EMERGENCY VEHICLE. THE CONFIRMATION LIGHT SHALL BE POWERED BY A LOAD SWITCH IN THE TRAFFIC SIGNAL CONTROLLER.

PAYMENT FOR ITEM 633 - "CONTROLLER ITEM, MISC.: PREEMPT CONFIRMATION LIGHT" WILL BE MADE AT THE CONTRACT PRICE FOR EACH LIGHT AS SHOWN IN THE PLANS COMPLETE IN PLACE, TESTED, AND ACCEPTED.

ITEM 633 - CONTROLLER ITEM, MISC.: PREEMPTION EMITTER

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING PREEMPTION EMITTERS AS REQUIRED BY THE PRIORITY CONTROL SYSTEM. THE PREEMPTION EMITTERS SHALL BE COMPATIBLE WITH OPTICALLY (INFRARED LIGHT) ACTIVATED PREEMPTION DETECTORS. INSTALLATION OF THE PREEMPTION EMITTERS WILL BE UNDER THE DIRECT SUPERVISION OF

POLICE DEPARTMENT, THOMAS VAUGHN, POLICE CHIEF (PHONE NUMBER 330-674-5931).

PAYMENT FOR ITEM 633-"CONTROLLER ITEM MISC.: PREEMPTION EMITTERS" WILL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH PREEMPTION EMITTER COMPLETE, IN PLACE, TESTED AND ACCEPTED.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

633, CONTROLLER ITEM MISC.: PREEMPTION EMITTER 5 EACH

ITEM 633 - CONTROLLER ITEM, MISC.: SIGNAL CABLE: PREEMPTION DETECTOR, 4-CONDUCTOR, NO. 20 AWG CABLE

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING PREEMPTION DETECTOR CABLE AS SHOWN IN THE PLANS. IT SHALL CONNECT THE PREEMPT DETECTORS TO THE CONTROLLER.

THE CABLE SHALL CONFORM TO ITEM 632. THE CABLE SHALL BE APPROVED FOR BOTH OVERHEAD AND UNDERGROUND USE. THE JACKET SHALL WITHSTAND EXPOSURE TO SUNLIGHT AND ATMOSPHERE TEMPERATURES AND STRESSES REASONABLY EXPECTED IN NORMAL INSTALLATIONS.

PAYMENT FOR ITEM 633 - "CONTROLLER ITEM, MISC.: SIGNAL CABLE: PREEMPTION DETECTOR, 4-CONDUCTOR, NO. 20 AWG CABLE" WILL BE MADE AT THE CONTRACT UNIT PRICE FOR THE CABLE FURNISHED, IN PLACE, ALL CONNECTIONS MADE AND WIRING COMPLETED, TESTED AND ACCEPTED.

CALCULATED
CHECKED

GENERAL NOTES

HOL-39-17.36

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