

TRAFFIC CONTROL GENERAL NOTES

CALC: 10-77
CHK: W.D. 10-77

FHWA REGION	STATE	PROJECT
5	OHIO	

LAKE COUNTY
LAK-20-5.60

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202 - REMOVAL OF EXISTING SIGNAL INSTALLATION

IN ACCORDANCE WITH STANDARD SPECIFICATION 202, THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING SIGNAL HEADS, STRAIN POLES, PEDESTRIAN SIGNAL POLES, FOUNDATIONS, CABLES, MESSENGER WIRES AND ALL OTHER PORTIONS OF THE EXISTING TRAFFIC SIGNAL INSTALLATION WHICH ARE NOT TO BE REUSED IN THE INSTALLATION.

THE EXISTING SIGNAL SYSTEM SHALL NOT BE TAKEN OUT OF OPERATION UNTIL THE PROPOSED SIGNALS HAVE BEEN INSTALLED AND WIRED AND READY FOR THE RELOCATION OF THE EXISTING CONTROL EQUIPMENT.

THE EXISTING SIGNAL HEADS (BOTH VEHICULAR AND PEDESTRIAN), STRAIN POLES, AND PEDESTRIAN SIGNAL POLES SHALL BE CAREFULLY REMOVED, CLEANED AND STORED ON THE PROJECT SITE FOR SALVAGE BY THE CITY OF WILLOUGHBY. THE CONTROLLER AND RELATED EQUIPMENT SHALL BE RELOCATED AS SPECIFIED UNDER ITEM 843 ELSEWHERE IN THESE PLANS. ALL OTHER EQUIPMENT SHALL BE REMOVED BY AND WILL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE CITY OF WILLOUGHBY IMMEDIATELY AFTER THE ABOVE MENTIONED ITEMS HAVE BEEN MADE AVAILABLE FOR THEIR REMOVAL.

PAYMENT FOR "ITEM 202, REMOVAL OF EXISTING SIGNAL INSTALLATION" WILL BE MADE AT THE LUMP SUM PRICE BID FOR THE INSTALLATION TO BE REMOVED WHICH WILL INCLUDE ALL EQUIPMENT, MATERIAL AND LABOR TO PERFORM THIS ITEM OF WORK.

843 - CONTROL CABINET AND RELOCATION OF EXISTING CONTROLLER

THIS ITEM OF WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF A NEW CABINET AND THE CAREFUL REMOVAL, CLEANING AND REINSTALLATION OF THE EXISTING CONTROLLER AND RELATED EQUIPMENT IN THE LOCATION SHOWN ON THE PLANS.

THE PROPOSED CABINET SHALL BE AS SPECIFIED IN SUPPLEMENTAL SPECIFICATIONS 843.09 AND 843.10 AND SHALL HAVE A MINIMUM INSIDE CAPACITY OF 20 CUBIC FEET. THE EXISTING CABINET SHALL BE REMOVED AND STORED ON THE PROJECT SITE FOR SALVAGE BY CITY FORCES.

THE EXISTING SIGNAL SYSTEM SHALL NOT BE TAKEN OUT OF OPERATION UNTIL THE PROPOSED SIGNALS HAVE BEEN INSTALLED AND WIRED AND READY FOR THE RELOCATION OF THE EXISTING CONTROL EQUIPMENT.

THE NEW CABINET SHALL BE REMOUNTED ON THE PROPOSED "CONCRETE FOR CABINET FOUNDATION" FURNISHED ELSEWHERE IN THESE PLANS.

THE EXISTING CONTROL EQUIPMENT TO BE RELOCATED INCLUDES BUT IS NOT LIMITED TO:

- 1 CROUSE HINDS 4 PHASE DIGITAL TIMER MODEL DCC4
- 4 DECATUR LOOP DETECTOR AMPLIFIERS MODEL XLMH
- 1 CROUSE HINDS DIAL COORDINATING UNIT MODEL DCU-300
- 1 TRACONEX CONFLICT MONITOR MODEL 2000
- 1 BRAMCO 10 CHANNEL DECODER
- MISC WIRING PANELS AND HARNESSSES

THE CONTRACTOR SHALL NOTIFY THE CITY OF WILLOUGHBY, CITY ENGINEER AND CHIEF OF POLICE 48 HOURS PRIOR TO THE TIME THAT THE CONTROLLER RELOCATION WORK IS TO COMMENCE. THE MAXIMUM TIME ALLOWED FOR THE RELOCATION, WIRE CONNECTIONS AND REACTIVATION OF THE CONTROLLER AND PROPOSED SIGNALS SHALL BE 48 HOURS. DURING THE SIGNAL DOWN TIME ALL VISIBLE SIGNAL HEADS SHALL BE BAGGED AND TRAFFIC CONTROL SHALL BE MAINTAINED BY THE USE OF OFF DUTY POLICE OFFICER DURING THE PEAK HOURS OF 7 a.m. TO 9 a.m. AND 4 P.M. TO 6 P.M. AND FOUR-WAY STOP SIGNS DURING THE REMAINDER OF THE PERIOD. THE COSTS OF FURNISHING, MAINTAINING AND SUBSEQUENT REMOVAL OF THE SIGNAL HEAD BAGS, POLICE MANPOWER AND STOP SIGNS SHALL BE INCLUDED IN THE PRICE BID FOR "ITEM 614 - MAINTAINING TRAFFIC" (SEE MAINTENANCE OF TRAFFIC NOTES SHEET NO. 12 OF ROADWAY GENERAL NOTES).

DURING THE TIME THE ROADWAY IS BEING CONSTRUCTED AND THE DETECTORS ARE BEING INSTALLED AND TESTED THE PROPOSED SIGNAL SYSTEM SHALL BE PROGRAMMED TO OPERATE ON A FIXED TIME BASIS. WHERE ALL TRAFFIC SIGNAL RELATED ITEMS HAVE BEEN COMPLETED, AND TESTED THE CONTRACTOR SHALL REPROGRAM THE CONTROLLER IN ACCORDANCE WITH THE COLOR SEQUENCE CHART SHOWN

843 - CONTROL CABINET AND RELOCATION OF EXISTING CONTROLLER (CONT.)

HEREIN. THE SYSTEM SHALL THEN BE OPERATING AS SIMI-ACTUATED IN COORDINATION.

PAYMENT FOR "ITEM 843-CONTROL CABINET AND RELOCATION OF EXISTING CONTROLLER" WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY TO COMPLETE THIS ITEM WITH ALL CONNECTIONS MADE, AND WIRING COMPLETED, TESTED AND ACCEPTED.

843 - RELOCATION OF EXISTING SAMPLING DETECTOR STATION

THIS ITEM OF WORK SHALL INCLUDE THE CAREFUL REMOVAL AND REINSTALLATION OF THE EXISTING SAMPLING DETECTOR STATION CABINET AND INTERNAL ELECTRONIC EQUIPMENT, RECONNECTING ALL WIRES, AND MAKING ALL NECESSARY ADJUSTMENTS TO THE EXISTING LOOP DETECTOR AMPLIFIERS AND ENCODERS.

THE CABINET SHALL BE MOUNTED ON THE PROPOSED PEDESTAL WHERE SHOWN ON THE PLANS.

PAYMENT FOR "ITEM 843 - RELOCATION OF EXISTING SAMPLING DETECTOR STATION" WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH WHICH SHALL BE FULL COMPENSATION FOR THE ABOVE DESCRIBED WORK INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS TO COMPLETE THIS ITEM WITH ALL CONNECTIONS MADE AND WIRING COMPLETED, TESTED AND ACCEPTED.

EXISTING SIGNS

EXISTING SIGNS LOCATED WITHIN THE ROADWORK AREAS WHICH ARE NECESSARY FOR INTERIM OR PERMANENT TRAFFIC CONTROL SHALL BE REMOVED AND RE-ERECTED IN LOCATIONS INDICATED BY THE PLANS OR AS APPROVED BY THE ENGINEER. STOP SIGNS SHALL BE MAINTAINED AT ALL TIMES WHILE TRAFFIC IS MAINTAINED. THE COST OF REMOVAL, RE-ERECTION AND SUBSEQUENT REMOVAL IF REQUIRED WILL BE CONSIDERED A SUBSIDIARY WORK ITEM, THE COST OF WHICH WILL BE INCLUDED IN THE PRICE BID FOR THE ROADWAY ITEMS. THE SIGNS WHICH ARE TO BE RE-ERECTED SHALL BE LOCATED WITH THE EDGE OF SIGN NO LESS THAN 3 FEET FROM THE EDGE OF PAVEMENT.

S625 POWER SUPPLY FOR TRAFFIC SIGNALS

ELECTRIC POWER SHALL BE OBTAINED FROM THE CLEVELAND ELECTRIC ILLUMINATING CO., CLEVELAND, OHIO AT THE LOCATION SHOWN ON THE PLANS. THE VOLTAGE SUPPLIED SHALL BE 120 VOLTS.

ALL NECESSARY WORK TO INSTALL A COMPLETE OPERATIVE SYSTEM WILL BE INCLUDED IN THE VARIOUS ELECTRICAL BID ITEMS IN THIS CONTRACT.

S625.11 - PULL BOX, AS PER PLAN

THE PULL BOX FURNISHED AND INSTALLED ON THIS PROJECT SHALL BE THE TYPE II JUNCTION BOX AS DETAILED ON STANDARD CONSTRUCTION DRAWING HL-4, DATED 1-21-76 AND SPECIFIED IN SUPPLEMENTAL SPECIFICATION S713.10.

EACH STEEL PLATE COVER SHALL HAVE A BRASS OR STAINLESS STEEL PLATE APPROXIMATELY 1/32 INCH IN THICKNESS AND NOT LESS THAN 2 INCHES IN WIDTH BY 10 INCHES IN LENGTH WITH THE WORD "TRAFFIC" ETCHED, ENGRAVED, OR DIE-STAMPED THEREON IN LETTERS APPROXIMATELY 5/8 INCHES WIDE BY 1-1/4 INCHES HIGH, RIVETED OR OTHERWISE PERMANENTLY ATTACHED TO THE STEEL PLATE COVER.

PAYMENT FOR "ITEM S625-PULL BOX, AS PER PLAN" SHALL BE MADE FOR EACH PULL BOX INSTALLED INCLUDING THE AGGREGATE, COMPLETE IN PLACE AND ACCEPTED.

844 SIGNS FURNISHED BY THE STATE

THE CONTRACTOR SHALL SUBMIT, IN TRIPLICATE, A SCHEDULE FOR SIGN ERECTION TO THE ENGINEER AT LEAST 120 CALENDAR DAYS PRIOR TO THE START OF ANY SCHEDULED ERECTION WORK. THE SCHEDULE SHALL INCLUDE PROPOSED DATES, SIGN NUMBERS AND DELIVERY POINT. THE ENGINEER WILL FURNISH COPIES OF THE SCHEDULE TO THE DISTRICT TRAFFIC ENGINEER AND TO THE ENGINEER OF DESIGN SERVICES, 25 SOUTH FRONT STREET, COLUMBUS, OHIO 43215.

844 - ALTERNATE DESIGNS FOR SIGN SUPPORTS

IF THE CONTRACTOR DESIRES TO FURNISH ALTERNATE DESIGN(S) OR MATERIALS FOR SIGN SUPPORTS, THE ALTERNATE DESIGN(S) SHALL BE SUBMITTED TO THE STATE AT LEAST 21 DAYS PRIOR TO OPENING OF BIDS. THE BIDDER WILL BE NOTIFIED AS TO ACCEPTANCE OR REJECTION OF ALTERNATE DESIGN AT LEAST 7 DAYS BEFORE BIDS ARE TO BE OPENED. SUBMISSIONS SHALL BE MADE TO THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF DESIGN SERVICES, 25 SOUTH FRONT STREET, COLUMBUS, OHIO 43215.

844 POLE MOUNTED SIGN ATTACHMENT

THIS WORK SHALL CONSIST OF THE FURNISHING AND INSTALLATION OF STAINLESS STEEL STRAPS, MOUNTING BRACKETS, AND HARDWARE AS DETAILED ON SHEET 8.

BASIS OF PAYMENT WILL BE AT THE CONTRACT BID PRICE PER EACH "844 POLE MOUNTED SIGN ATTACHMENT" WHICH PRICE WILL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED ITEM OF WORK.

844 POLE MOUNTED SIGN ATTACHMENT, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE FURNISHING AND INSTALLATION OF STAINLESS STEEL TRAPS, MOUNTING BRACKETS AND BRACES, AND HARDWARE AS DETAILED ON SHEET 8.

BASIS OF PAYMENT WILL BE AT THE CONTRACT BID PRICE PER EACH "844 POLE MOUNTED SIGN ATTACHMENT, AS PER PLAN" WHICH PRICE WILL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED TERM OF WORK.

844 SPAN WIRE MOUNTED SIGN ATTACHMENT, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE FURNISHING AND INSTALLATION OF THE STEEL BARS, SPAN WIRE MOUNTING BRACKETS AND HARDWARE AS DETAILED ON SHEET NUMBER 8. ALL COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.

BASIS OF PAYMENT SHALL BE AT THE CONTRACT BID PRICE PER EACH "SPAN WIRE MOUNTED SIGN ATTACHMENT, AS PER PLAN" WHICH SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED ITEM OF WORK.

844 SIGNS MOUNTED ON SPAN WIRES OR MAST ARMS

IN ADDITION TO 844.07, ALL SIGNS MOUNTED ON SPAN WIRES OR MAST ARMS SHOULD BE FIELD DRILLED.

842 - POWER CABLE AND INTERCONNECT CABLE

THE INTERCONNECT CABLE FOR OVERHEAD RUNS SHALL BE THREE (3) CONDUCTOR NUMBER 8 AWG (TRIPLEX) AND SHALL BE THE SAME AS SPECIFIED FOR SERVICE CABLE IN SUPPLEMENTAL SPECIFICATION 842.16.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR CONNECTION TO THE POWER COMPANY LINES OR THE EXISTING INTERCONNECT SYSTEM:

842 INTERCONNECT CABLE, INTEGRAL MESSENGER WIRE
TYPE, THREE CONDUCTOR NO. 8 AWG., AS PER PLAN
200 LIN. FT.

842 POWER CABLE, 2 CONDUCTOR NO. 8 AWG 100 LIN FT.

842 - POWER SERVICE, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION 842.17 WITH THE EXCEPTION THAT THE METER BASE WILL NOT BE REQUIRED.

(SEE ADDITIONAL NOTE ON SHEET NO. 8)

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