

TRAFFIC SIGNAL PAY QUANTITY NOTES

(TR-6) THE CONTROLLERS TO BE FURNISHED ON THIS PROJECT SHALL BE 8-PHASE VEHICLE ACTUATED SOLID STATE DIGITAL TRAFFIC SIGNAL CONTROLLERS. A MINIMUM OF SIXTEEN (16) LOAD SWITCH RECEPTACLES SHALL BE FURNISHED AND WIRED TO THE MOUNTING FRAMES. ALL WIRING FROM THE FIELD TERMINALS SHALL BE WIRED TO THE MOUNTING FRAME FOR AN 8-PHASE OPERATION. NO CABINET OR CONTROLLER WIRING SHALL BE REQUIRED EXCEPT FOR ADDITIONAL DETECTOR CONNECTING CABLES WHEN CONTROLLER IS EXPANDED FOR AN 8-PHASE OPERATION. THE CONTROLLER SHALL BE CAPABLE OF PERFORMING AS SHOWN ON THE PHASE AND SEQUENCE DIAGRAM.

SPECIAL PAY QUANTITY NOTES

- (SP-1) THIS ITEM IS FOR INSTALLING PEEK 3000E TS/2 TYPE 1 TRAFFIC SIGNAL CONTROLLERS IN THE CABINET. WORK SHALL INCLUDE THE INITIAL PROGRAMMING OF EACH OF THE LOCAL CONTROLLERS FOR THREE (3) DAILY TIMING PLANS TO BE SUPPLIED BY THE ENGINEER. THE PROGRAMMING OF THE MASTER CONTROLLER AT WASHINGTON AND MAIN SHALL COORDINATE THE SIGNAL SYSTEM FOR TWO (2) PERIODS OF THE DAY.
- (SP-2) THE CABINET SHALL BE P44 NEMA TS/2 TYPE 1 OR AN APPROVED EQUAL. A MINIMUM OF SIXTEEN (16) LOAD SWITCH RECEPTACLES SHALL BE FURNISHED AND WIRED TO THE MOUNTING FRAMES. ALL WIRING FROM THE FIELD TERMINALS SHALL BE CONNECTED TO THE MOUNTING FRAME FOR AN 8-PHASE OPERATION. ALL CORRESPONDING RECEPTACLE WIRING IN THE CABINET AND FIELD WIRING SHALL BE INSTALLED FOR THE CONTROLLER AS REQUIRED. NEW CONFLICT MONITORS SHALL BE PROVIDED THAT ARE COMPATIBLE WITH THE SIGNAL CONTROLLER AND OPERATION OF THE INTERSECTION CONTROL. CONFLICT MONITORS SHALL BE AN EDI SSM12LE OR APPROVED EQUAL.
- (SP-3) INCLUDED IN THIS ITEM IS A TRAFFIC SIGNAL BATTERY BACK-UP SYSTEM IN ACCORDANCE WITH ODOT STANDARD SPECIFICATIONS SECTION 825.02.
- (SP-4) THIS PROJECT INVOLVES THE INSTALLATION OF TWO (2) VIDEO DETECTION SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
- A. TWO (2) OF THE FOLLOWING: A PEEK VIDEO TRAK, 8-CHANNEL PROCESSOR (OR APPROVED EQUAL) VEHICLE DETECTOR SYSTEM UNITS INCLUDING A LAPTOP COMPUTER. ALL NECESSARY CABLES, HARNESSSES, MATERIALS, FITTINGS, AND MISCELLANEOUS COMPONENTS NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AT TWO (2) INTERSECTIONS. MINIMUM SPECIFICATIONS FOR THE COMPUTER SYSTEM: PENTIUM IV, 850 MHZ PROCESSOR, 5624 MB RAM, 200 GB HARD DRIVE, USB PORTS, AND A 48X CDR-RW.
- B. SEVEN (7) CAMERAS WITH ZOOM LENS CAPABILITY.
- (SP-5) WORK SHALL INCLUDE PROGRAMMING THE DETECTION ZONES SHOWN ON THE PLANS.
- (SP-6) RED, YELLOW, AND GREEN LIGHT EMITTING DIODE (LED) TRAFFIC SIGNAL HEADS, MODULES, LENSES, AND ALL ASSOCIATED MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED ON THIS PROJECT SHALL CONFORM TO ITE VEHICLE TRAFFIC CONTROL SIGNAL HEAD (VTC SH) STANDARDS IN EFFECT AT THE TIME THAT THE ORDER IS PLACED. LED HEADS SHALL BE CAPABLE OF OPERATING WITHOUT A REFLECTOR.
- (SP-7) CIRCULAR AND ARROW LED SIGNAL MODULES SHALL HAVE A UNIFORM APPEARANCE.
- (SP-8) THIS ITEM IS FOR INSTALLING PEDESTRIAN PUSH BUTTONS POLES. SEE STANDARD PMAP1-1-(LATEST REVISION)
- (SP-9) INCLUDED IN THIS PAY ITEM IS THE COST OF APPLYING 2" YELLOW RETROREFLECTIVE TAPE (TYPE VIII) ONTO BACKPLATES. (SEE STANDARD SA1-1-02)
- (SP-10) TRAFFIC SIGNAL HEAD FACES ARE TO BE COMPLETELY COVERED FROM THE TIME THEY ARE INSTALLED UNTIL PLACED IN FLASHING OR FULL OPERATION. COVERING THE LENSES ONLY IS NOT ACCEPTABLE.
- (SP-11) PRICE BID FOR THIS PAY ITEM TO INCLUDE DEFROST DEVICE FOR FROST, SNOW, ICE, OR LENS FOG REMOVAL.
- (SP-12) CABINET SHALL BE MANUFACTURED WITH TWO (2) DOORS. SEE STANDARD ON SHEET CC1-1-00.

TRAFFIC CONSTRUCTION PAY QUANTITY NOTES:

- (TC-13) A PART, OR ALL, OF THIS ITEM IS INTENDED FOR REPLACEMENT OF REMOVED EXISTING CONFLICTING STRIPING.
- (TC-17) INCLUDES AN ESTIMATED 5,400 L.F. (PAINT) (4" WIDE) WHITE 5,400 L.F. (PAINT)(4" WIDE) YELLOW STRIPE.
- (TC-20) ALL STRIPING TO BE PLACED ON TEMPORARY SURFACES OR ON SURFACES SCHEDULED TO BE REMOVED SHALL BE DONE WITH PAINT UNLESS OTHERWISE NOTED ON THE PLANS OR STANDARD DRAWINGS. TEMPORARY PAVEMENT MARKINGS PLACED ON FINISHED PAVEMENT OR EXISTING PAVEMENT TO REMAIN IN PLACE SHALL USE ONE OF THE FOLLOWING METHODS:
- REMOVABLE PAVEMENT MARKING TAPE
 - CLASS A PAVEMENT MARKERS
- (TC-21) INCLUDED IN THE COST OF THIS ITEM SHALL BE INSTALLATION, MAINTENANCE, AND REMOVAL. THIS ITEM SHALL BE BID ACCORDINGLY.
- (TC-22) AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL, IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING REMOVAL SHALL INCLUDE THE COST OF REMOVING STRIPE, ARROWS, WORDS AND SYMBOLS, AS SHOWN IN THE PLANS. THESE ITEMS MAY CONSIST OF PLASTIC, PAINT OR NON-REMOVABLE MARKING TAPE.
- (TC-26) ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE ODOT STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE PROJECT.
- ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE "A" LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.
- (TC-28) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 0.00 S.F. AND 6.25 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- (TC-29) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 6.26 S.F. AND 15.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- (TC-30) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 16.00 S.F. AND 32.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- (TC-33) ALL CONSTRUCTION WORK ZONE SIGNS SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956 (LATEST REVISION)
- IN THE MANUFACTURER SHALL FURNISH A TYPE "D" CERTIFICATION ACCORDANCE WITH ODOT STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR APPROVAL.
- (TC-61) ANY DAMAGE TO A FINISHED OR EXISTING SURFACE RESULTING FROM THE CONTRACTORS NEGLIGENCE IN THE REMOVAL OF CONSTRUCTION ZONE PAVEMENT MARKERS OR CHANNELIZING DEVICES AND THE BITUMINOUS ADHESIVE USED IN THEIR INSTALLATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.
- (TC-70) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY ENGINEER.

TRAFFIC CONSTRUCTION PAY QUANTITY NOTES CONT.:

- (TC-73) QUANTITY SHOWN INCLUDES 2,700 EA. (WHITE) AND 2,700 EA. (YELLOW) CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TABS). THESE CONSTRUCTION ZONE PAVEMENT MARKERS SHALL BE EITHER "DAVIDSON PLASTICS: MODEL TOM," OR AN APPROVED EQUAL. PRICE BID FOR THIS ITEM SHALL INCLUDE THE INITIAL PLACEMENT, SUBSEQUENT REPLACEMENT, AND REMOVAL. THE CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TABS) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN ON STANDARD DRAWING TCS21-1-(LATEST REVISION).
- (TC-75) TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE THE SAME DAY THAT EXISTING PAVEMENT MARKINGS ARE REMOVED FROM ANY ROADWAY OPEN TO TRAFFIC. ALSO, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF FINAL STRIPING.
- (TC-84) 280 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT ODOT STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
- NOTES: THE CONTRACTOR MAY SUBMIT A WRITTEN ALTERNATE SEQUENCE OF CONSTRUCTION OPERATION TO THE ENGINEER FOR APPROVAL. ALL CONSTRUCTION SIGNING AND STRIPING IN ADVANCE OF AND THROUGHOUT THE PROJECT LIMITS WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION), AND APPLICABLE ODOT STANDARDS.

MAIN ST. CUSTER COUNTY

PAY ITEM NOTES (TRAFFIC) 2 OF 2

JOB PIECE NO. 27911(06) SHEET NO. 12