ITEM # 1108163A ‑ MODIFY EXISTING CONTROLLER

**Description:**

 This item shall consist of modifying the existing traffic controller assembly to provide the revised operation as shown on the plans or as directed by the Engineer. The modification shall include revisions to the timing and sequence, cabinet wiring, coordination, pre‑emption, installation of a separate electrical outlet(s) for detection equipment, field wiring and cabinet wiring diagrams.

Materials:

 The material for this work shall conform to the requirements of the current edition of the Connecticut Department of Transportation Functional Specifications for Traffic Control Equipment. The material shall be compatible with the existing equipment. The electrical outlet(s) for detection equipment shall be a 15 amp duplex three-prong receptacle.

 Any material in question shall be approved prior to installation by the Engineer or the Department of Transportation Signal Lab, 280 West Street, Rocky Hill. Contact the Signal Lab at DOT.SignalLab@ct.gov for approval.

Construction methods:

 All revisions to the cabinet wiring shall be neat and orderly. All additional wiring shall be from terminal to terminal. Splices will not be allowed. All changes, additions and deletions shall be documented, dated and drawn on the reproducible original or a reproducible copy of the original cabinet wiring diagram. three paper copies shall be furnished to the Engineer upon completion of the revision and digital PDF files of the modified controller cabinet wiring diagrams shall be sent to DOT.SignalLab@ct.gov.

 The installed duplex outlet shall be fed from the cabinet’s existing circuit breaker powering the GFCI outlet and installed on the left side of the cabinet. Wiring to the outlet shall be as such that it is the first outlet in the circuit and is not wired to the load side of existing GFCI outlet. If there is a need for more than one duplex receptacle for detection equipment, another duplex receptacle shall be installed in parallel with the first duplex receptacle.

Method of measurement:

 This item will be measured for payment as an "each" item.

Basis of Payment:

 This item will be paid for at the contract price each, for "Modify Existing Controller" which price shall include all necessary load switches, duplex receptacles, cable, relays, components, hardware, tools, equipment, engineering and labor required to modify the existing controller as shown on the plan. This price shall also include three updated cabinet wiring diagrams.

Pay Item Pay Unit

Modify Existing Controller ea.