

512 CONTROL HOUSE.
(REV 7-25-02) (FA 9-3-02) (7-03)

PAGE 584. The following new Section is added after Section 510:

SECTION 512
CONTROL HOUSE

512-1 Description.

Construct or rehabilitate a complete bridge control house as shown on the plans.

512-2 Compliance and Acceptance Requirements.

Adhere to local building codes and inspection requirements. The Engineer will inspect in accordance with these codes.

512-3 Materials and Construction Methods.

512-3.1 General: Meet the material and construction requirements specified in the Contract Documents for the various items that constitute the Control House.

512-3.2 Convex Mirror: Furnish and install a minimum 12 inches [305 mm] diameter convex mirror when indicated in the plans. Mount the mirror in an aluminum frame permanently secured to the pier with anchor bolts. Adjust mirror location to provide optimum view of the channel when the bascule leafs are open.

512-3.3 Vinyl Tile: Furnish and install vinyl tile conforming to Federal Specifications 55-T-312 Type IV 12 by 12 by 1/8 inch [305 by 305 by 3.175 mm] and use dark brown rubber base with cove at all walls.

512-3.4 Windows: Furnish and install, single glazed, double hung window unless otherwise indicated in the plans. Ensure the frames include all necessary interior and exterior trim. Provide all moving windows with removable screens. Ensure the aluminum frame color is as shown in the plans and the anodized finish meets the requirements of The Aluminum Association, Incorporated (AA) for architectural class I finish (AA - M10 - C22 - [A44]). Ensure all glazing is of a clear laminate and conforms to bullet-resistant security glazing, ASTM F 1233 and UL 752, Level 1.

512-3.5 Doors: Furnish and install doors and frames of aluminum construction, unless otherwise indicated in the plans. Ensure the doorframes, moldings, and trim are extruded 6063-T5 aluminum and the face sheets are plain architectural quality aluminum; door cores are polyurethane foam or resin impregnated Kraft honeycomb. Ensure all exterior doors are 1 3/4 inches [44.45 mm] thick.

Furnish and install the bridge tender house entrance door matching the color of the window frames with a bullet resistant laminate windowpane.

Furnish and install all machinery room doors with a single glazed with 0.25 inch [6.35 mm] thick clear wire glass, with 24 by 24 inches [610 by 610 mm] louvers below glass windows; color to match window frames.

512-3.6 Air Conditioning Unit: Furnish and install a complete package heat pump unit, sized as shown in the plans, suitable for thru-the-wall installation. Ensure the unit is capable of

seasonal year-round operation. Mount the unit through a sleeve to ensure that the unit is not in contact with concrete at any place. Ensure the unit includes all electrical and operating controls necessary for a complete and operational unit.

512-3.7 Lighting Fixtures: Furnish and install UL listed fixtures and lighting equipment with accessories, hangers, canopies, hickeyes, casings, end plates, sockets, fixture wires, holders, reflectors, globes, glass, guards, ballasts, diffusing louvers, recessing boxes, etc., all wired and assembled as shown in the plans. Ensure that all lamps are installed and operational.

512-3.8 Smoke Detectors: Furnish and install smoke detectors as show in the plans or required by NFPA. Use only smoke detectors with ionization chambers capable of detecting products of combustion with power requirements of 120 V_{ac}. Provide internal alarms and auxiliary contacts for remote annunciation. Ensure that when one unit is activated, all horns will sound.

512-4 Method of Measurement.

The quantity to be paid for will be at the Contract lump sum price, completed and accepted.

512-5 Basis of Payment.

512-5.1 General: Price and payment will be full compensation for all work specified in this Section, including special windows and doors; plumbing fixtures; and all materials, equipment, tools, labor, and incidentals necessary for the control house. Anchor bolts and steel framing and plates will be paid for as specified in Section 460.

512-5.2 Sashes and Doors on Machinery Rooms: Where the plans include sashes and doors on machinery rooms that are constructed as integral parts of the piers for movable bridges, the sashes and doors will be included in the Contract lump sum price for Control House.

512-5.3 Water Supply: Where the plans require connection of plumbing fixtures to an existing water supply, or the provision of a water supply and connecting the plumbing fixtures thereto, the water supply and connections will be included in the Contract lump sum price for Control House.

512-5.4 Payment Items: Payment will be made under:

- Item No. 512- 1- Control House - lump sum.
- Item No. 2512- 1- Control House - lump sum.