

ITEM 680.5103--25 - PULL AND JUNCTION BOXES

1. DESCRIPTION:

- 1.01 This work shall consist of furnishing and installing pull boxes, junction boxes, outlet boxes as indicated on the Contract Plans at locations indicated on the plans or by the Engineer.

2. MATERIALS:

- 2.01 **Acceptable Manufacturers:** The following manufacturers shall be considered as acceptable provided the requirements and intent of the drawings and specifications are complied with:

Warren Electric Supply, Inc.
31 Adams Street
Troy, NY 12180-4439

GE Supply
30 Corporate Circles, Suite 200
Albany, NY 12203

GrayBar Electric Company, Inc.
229 Church Street
Albany, NY 12202-1060

Substitutions: Items of equal quality, function and performance may be proposed for substitution by following the procedures outlined in Section 106-09.

- 2.02 **Outlet Box – Cast Type:** Galvanized cast iron, Type FD, with threaded hubs and matching covers without overlapping edges or corners.

- 2.03 **Pull and Junction Boxes Exposed to Outdoors:**

- A. NEMA 4X rated with removable cover.
- B. Size as called for on drawings or sized in accordance with NEC.

3. CONSTRUCTION DETAILS:

- 3.01 Obtain exact locations of devices from Drawings. Refer any condition that would place a device box in unsuitable location to Engineer.
- 3.02 Mount boxes for similar equipment in same or similar areas at uniform heights. Where mounting heights are not indicated, locate box as required for equipment connected thereto or as directed by the Engineer.
- 3.03 Install boxes in accessible locations. Where metal or finish is removable, install box to permit removal of metal wainscot or finish without removing box.
- 3.04 Close unused openings in boxes with knockout closers.
- 3.05 Provide blank plates on device boxes in which no device is installed.

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3. CONSTRUCTION DETAILS: (cont'd)

- 3.06 Device boxes exposed to weather or in damp locations shall be cast type and have liquid tight seal hub fitting with sealing ring and gasket for conduit connections.
- 3.07 Provide pull and/or splice boxes where indicated or required to facilitate pulling of wires and cables.
- 3.08 **Grounding:** All equipment enclosures, control panels, motor frames, conduit systems, exposed structural steel and similar items shall be grounded. Exposed connections shall be made with ground clamps, ground lugs or compression connectors. Grounding conductor shall be provided in all power circuits and sized in accordance with NEC as a minimum.

4. METHOD OF MEASUREMENT:

- 4.01 Pull and junction boxes will be measured for payment as the number of each box provided in accordance with the Contract Documents.

5. BASIS OF PAYMENT:

- 5.01 The price bid per each pull and junction box shall include the cost of furnishing all labor, materials and equipment to satisfactorily complete the work.