

ITEM 607.9904 08 - PRECAST CONCRETE PANELS

DESCRIPTION:

This work shall consist of furnishing and erecting precast concrete panels and caps at the locations indicated on the plans:

MATERIALS:

Requirements - Precast concrete panels shall meet the requirements of Section 704-03 except as noted herein.

Concrete used in panels and caps shall have a minimum compressive strength of 42 MPA at 28 days.

Coarse aggregate used for the exposed aggregate finish shall be crushed gravel with a Type CA 1 gradation or equal, approved by the Materials Bureau. Gravel shall not be darker than the Value 6 of the Hue 10 YR of the Munsell Rock-Color Chart or approved equal.

Preformed seals shall be Williams Panel Seal No. 11 from series 3000 ozone resistant material or approved equal.

Caulk and backer rods - Caulk shall meet the requirements of Section 705-06 of the Standard Specifications. Backer rods shall be polyethylene conforming to ASTM D3204. Type I.

Grout shall meet the requirements of Section 701-05 of the Standard Specifications. Color of grout shall be match the exposed color of the wall system.

Reinforcing steel for precast concrete panels shall be galvanized and meet the requirements of §709-11 of the standard specifications.

Wire fabric for concrete reinforcement shall be galvanized in accordance with ASTM A123. Fabrication, including bending of fabric, shall be performed prior to galvanizing.

Joints - All joints between panels shall be tongue and groove. Panels shall be chamfered or have square angle corners as detailed on the plans. No space of any kind, including for lifting fittings, shall be allowed in the finished face of wall panel. Panel joints shall be grouted or caulked as detailed on the plans. Any space shall be sealed to the satisfaction of the Engineer.

Repair (Panels and Caps)

Repair procedures proposed for use on areas with exposed aggregate finish must be approved by the Materials Bureau before being used.

CONSTRUCTION DETAILS:

The contractor shall submit shop drawings for approval to the Engineer 30 days before fabrication

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commences. The precast concrete panels shall be installed in the position and manner indicated on the plans and as approved by the Engineer.

METHOD OF MEASUREMENT:

The erection of the precast concrete panels and caps will be measured as the number of square meters satisfactorily completed in accordance with this specification and as approved by the Engineer. The number of square meters shall be computed using the following payment lines:

Upper payment lines shall be set at the elevations or heights as shown on the plans or as ordered by the Engineer.

Lower payment line shall be the bottom elevation of each panel including the portion below finished grade.

Longitudinal payment lines shall be the outer extremities of the wall panels.

BASIS OF PAYMENT:

The unit price bid per square meter shall include the cost of furnishing all labor, materials, equipment and tools necessary to complete the work.