

ITEM 601.40----91 – PRECAST CONCRETE PAVING (BITUMINOUS SETTING BED)

DESCRIPTION: This work shall consist of the furnishing and placing precast concrete paving. All work shall be in accordance with these specifications and in reasonably close conformity with the lines and grades shown on the plans or established by the Engineer.

MATERIALS: Material shall meet the requirements specified in the following subsections of Section 700 - Materials:

Bituminous Materials (As specified)	702-00
Asphalt Cement for Paving	702-02 or 702-03
Fine Aggregates	703-01
Mineral Filler	703-08
Precast Concrete Street Pavers	704-23
Water	712-01

Precast concrete street pavers shall meet the requirements of §704-23 and shall be the size(s), shapes(s) and color(s) as specified in the contract documents. Minimum thickness of precast concrete street pavers shall be 80 mm.

Neoprene-Modified Asphalt Adhesive shall consist of 2% neoprene, grade WM1, oxidized asphalt with a R & B softening point of 68°C minimum and a penetration of 80, and 10% asbestos-free fibers.

Polymeric Sand shall be used to fill the joints between the pavers. Color shall be as specified in the contract documents.

CONSTRUCTION DETAILS: The provisions under §401-3, Construction Details for Plant Mix Pavements - General, shall apply.

Precast concrete street pavers shall be laid in a bituminous setting bed over the specified concrete subbase. Thickness of the compacted bituminous setting bed shall be 20mm. Do not use the bituminous setting bed to correct deficiencies in the concrete subbase. The setting bed shall consist of asphalt cement meeting the requirements outlined in either §702-02 or §702-03 mixed with fine aggregate meeting the requirements of §703-01. The asphalt cement shall be 7.0% of the total batch weight. The mix shall be heated to approximately 163°C. A coating of neoprene-modified asphalt adhesive shall be applied by mopping, squeegeeing or troweling over the top surface of the setting bed to provide bond under the precast concrete street pavers.

All precast concrete street pavers shall be laid in the pattern shown in the contract documents or as directed by the Engineer to provide a uniformly even surface. Joints shall be hand tight unless otherwise specified. No precast concrete street pavers shall be laid when the air temperature is expected to fall below 2°C.

Polymeric sand shall be swept over the precast concrete street pavers until the joints are completely filled and the joints lightly wetted with water. This joint filling operation shall not be performed if the air temperature is expected to fall below 2°C

METHOD OF MEASUREMENT: Precast concrete paving will be measured by the number of square meters placed as shown in the contract documents, or as ordered by the Engineer.

BASIS OF PAYMENT: The unit price bid per square meter shall include the cost of all labor, materials and equipment necessary to complete the work, including setting bed material, except that any necessary excavation and subbase course will be paid for under their appropriate items.