

ITEM 10608.05 M - BLUESTONE PAVING WITH SAND JOINTS (SAND SETTING BED ON CONCRETE SLAB)

DESCRIPTION:

This work shall consist of furnishing and installing bluestone pavers with sand joints in a sand setting bed on a concrete slab in accordance with the contract plans and specifications, and at locations shown in the contract plans or as directed by the engineer. The concrete slab will be constructed under a separate item.

MATERIALS:

Pavers shall be bluestone. The stone shall be sound and durable, free from seams which impair its structural integrity and of a smooth splitting and machining character. Natural color variations that are characteristic of the deposit will be permitted. Any stone containing discoloration other than cleanable surface stains shall be sampled and submitted to the engineer for evaluation. Two sample paver units illustrating color, surface finish and texture shall be submitted to the engineer for approval.

The bluestone pavers shall be 25 mm thick and cut to the shapes and sizes shown on the contract plans. Paper templates of the paver shapes and sizes will be provided to the contractor by the Engineer.

Sand for the setting bed and joints shall conform to the requirements of ASTM C144 and be clean, washed, river or bank sand containing a maximum of 50 percent particle size of a 300 µm sieve.

Geotextile fabric shall conform to the requirements of Subsection 207-2.

CONSTRUCTION DETAILS:

Pavers shall be delivered, stored and handled in a manner which will not chip, scratch or otherwise damage the pavers.

Shop drawings shall be submitted for review and approval by the engineer at least 3 weeks prior to starting work under this item. Shop drawings shall indicate layout of pavers, dimensions of paved areas, control jointing, elevations and affected adjacent construction.

Place geotextile fabric over a concrete pad constructed under a separate item as shown in the contract plans. Place 25 mm of sand over the geotextile fabric, spreading evenly. Place paver units in pattern indicated on the contract plans. Width of joints shall be as shown on the plans.

Sprinkle sand over the surface of the pavers and sweep into joints. Moisten joints and recover

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with additional sand until firm joints are achieved. Remove excess sand. Tamp and level paver units with a mechanical plate vibrator until units are firmly bedded level and to correct elevation and slope.

At end of working day or, during rainy weather, cover work exposed to weather with waterproof coverings, securely anchored.

Maximum variation from flatness shall be 3mm measured with a 3 m straight edge. Maximum variation from true elevation shall be 6 mm.

After installation is complete, do not clean pavers until the pavers are dry. Clean soiled surfaces using cleaning solution with non-metallic tools. Do not harm pavers, joint materials or adjacent surfaces. Rinse surfaces with clean water and broom clean. Dispose of excess sand in a manner approved by the engineer.

Finished work shall be protected from damage until project acceptance. Construction vehicle and worker traffic shall not be permitted over unprotected paver surfaces. Protect paver surfaces with sheets of plywood sheathing.

METHOD OF MEASUREMENT:

This work will be measured as the number of square meters of bluestone paving satisfactorily installed in place as shown on the contract plans or as ordered by the engineer.

BASIS OF PAYMENT:

The unit price bid per square meter shall include the cost of furnishing all labor, materials and equipment necessary to complete the work, including geotextile materials and sand material for the setting bed and joints. The concrete pad beneath the sand setting bed will be paid for under a separate item.