

ITEM 608.0501 11 M - BLUESTONE UNIT PAVERS ON PREPARED SETTING BED

DESCRIPTION:

This work shall consist of furnishing and installing bluestone unit pavers on prepared setting bed, in accordance with the contract documents and as directed by the Engineer.

MATERIALS:

Mortar shall conform to the requirements of Section 705-21 of the Standard Specifications (Metric Edition).

Sand shall conform to Section 703-06 Cushion Sand.

Filter fabric shall be synthetic and rotproof. Fabric shall be one of the following:

AEF 480 HS	FX-40HS	140 NL
American Engineering Fabrics, Inc.	Carthage Mills	Mirafi/Ten Cate Nicolon
32 Scotland Boulevard	4243 Hunt Road	365 South Holland Drive
Bridgewater,	Cincinnati,	Pendergrass,
Massachusetts 02324	Ohio 45242	Georgia 30567
(800) 770-2666	(800) 543-4430	(706) 693-2226

Or equal as approved by the Engineer.

Bluestone unit pavers shall be of New York State bluestone. The stone shall be free stone (meaning solid, with no black lines showing with grain) and shall range in color from green-gray to blue; no red or lilac stone will be acceptable. Pavers shall be 51mm thick by 102mm wide by 203mm long, with a thermal finish on the top face, smooth sawn side faces, and a rubbed finish on the bottom face.

Absorption - ASTM C97, 1.5% maximum after 48 hours
Compressive Strength - ASTM C170, Minimum 30,000 kPa
Abrasion Index - ASTM C241, 28.84

Prior to the start of work, the Contractor shall submit a sample of five (5) unit pavers showing the range of colors for approval by the Engineer in coordination with the Regional Landscape Architect. Samples shall be clearly labeled with the Contract Number, manufacturer/source, color(s), size and finish(es). All bluestone unit pavers used in the work shall conform to the approved samples.

Prior to the start of work, the Contractor shall construct a sample pavement to demonstrate the paving pattern as shown in the contract documents. The sample for pavement on mortar setting bed shall be a minimum of two (2) meters square and shall include mortar joints. The sample for pavement over tree pits shall be one (1) meter square.

The Contractor shall notify the Engineer and Regional Landscape Architect seven days in advance of the date when the sample pavement is to be constructed. The sample shall be located as directed by the Engineer and may be part of the final work. The Contractor shall obtain written approval of the sample

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pavement prior to commencing with the final work. If the sample pavement is disapproved, it shall be removed and re-installed as directed by the Engineer. The Contractor shall maintain the approved sample pavement in an undisturbed condition as a standard for judging the completed work. After completion and approval of the finished work, the sample pavement shall be demolished and removed by the Contractor, or included as part of the work, as directed by the Engineer.

CONSTRUCTION DETAILS:

Installation shall conform to the requirements of §608-3.03 Brick Paved Sidewalks and Driveways, subsections A. (Sand Setting Bed) and B. (Mortar Setting Bed), and be according to the contract documents, with the exception that for blocks used over tree pits, the Contractor shall place non-woven filter fabric over the prepared subgrade, overlapping edges a minimum of 150 mm to ensure complete coverage prior to placing the sand base.

The Contractor shall protect the bluestone for the duration of the Contract. Any damage done to the adjacent areas shall be repaired by the Contractor at no expense to the State.

Where defects in material or installation appear in the completed work, such areas shall be removed to the full depth of the course and the defective material replaced with new for the required thickness of pavement at no expense to the State.

The layout of the pavers shall be as indicated on the plans and is subject to approval by the Engineer in coordination with the Regional Landscape Architect. All edges, borders and corners of the paved area shall be finished to true and neat lines. Special cutting, soldier courses, color patterns, various shapes, and variations in size and finish are all to be included in the work for this item.

METHOD OF MEASUREMENT:

This work will be measured for payment as the number of square meters of Bluestone Unit Pavers on Prepared Setting Bed satisfactorily furnished and installed.

BASIS OF PAYMENT:

The unit price bid for Bluestone Unit Pavers on Prepared Setting Bed shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.