

ITEM 608.1103--08 - BLUESTONE SIDEWALK (MORTAR SETTING BED)

DESCRIPTION

This work shall consist of furnishing and installing a bluestone sidewalk with a mortar setting bed in accordance with the contract documents and as directed by the Engineer.

MATERIALS

Bluestone - The stone shall be New York State bluestone. The bluestone stone shall be a "free" stone meaning solid, no black lines showing with grain. Red stone is not acceptable. Natural color variations that are characteristic of the deposit shall be permitted. Any sidewalk panel containing discoloration other than cleanable surface stains shall be approved by the Engineer prior to their use.

Sidewalk panels shall be a minimum of 1.5 meters wide and a minimum of 1.5 meters long. The thickness shall be 50 mm ± 6mm. Spalted edges that are undercut by more than 22 degrees from the top will not be acceptable. All bluestone panels shall be free of open seams. Natural cleft surfaces should be ± 3 mm from the arris plane. Pieces should be cut to size, full dimension ± 8 mm in length and width and be square.

The contractor shall supply the Engineer with two sample panels for approval by the Regional Landscape Architect.

Mortar Bedding - Mortar used to bond the bluestone to the concrete sidewalk shall meet Subsection 705-21, Type M.

Stone Dust- Stone dust for filling the joints shall consist of hard, durable, uncoated particles of soil or rock, free from lumps of clay and all deleterious substances meeting the following gradation:

<u>Sieve Size</u>	<u>Percent Passing By Weight</u>
6.3 mm	100
2.0 mm	50-85
425 µm	20-45
75 µm	3-10

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CONSTRUCTION DETAILS

The sidewalk panels shall be delivered, stored and handled in a manner that will not chip, scratch or cause any damage.

Working drawings will be required. The information contained in the working drawings shall include enough information so the Engineer can determine if the layout and pattern etc. matches that shown on the plans.

Cutting the bluestone will be required to obtain the desired layout and pattern. The method of cutting shall be that commonly used by the industry.

The mortar setting bed and bluestone shall be placed on the concrete base as shown on the plans. The mortar setting bed thickness will vary according to actual thickness of the bluestone. The total thickness of the mortar setting bed and bluestone shall be 75± millimeters. The bluestone is to be set on the mortar setting bed with approximate ± 8 mm joint to be swept full with stone dust. When setting the stones, the mortar should be leveled to match the bottom of the profile of the stone to be laid. After the stone is set,

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they shall be tamped with handle of sledge hammer or block of wood to set the stone into bed. If stones are low after being tamped they shall be reset and mortar added under full area of stone.

Damage to adjacent sidewalks by the contractor's operation shall be repaired to the satisfaction of the Engineer at the contractor's expense.

METHOD OF MEASUREMENT

This work will be measured as the number of square meters of satisfactorily furnished and installed bluestone sidewalk.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, materials, and equipment including the mortar setting bed and stone dust as necessary to satisfactorily complete the work. The concrete base and excavation shall be paid separately.