

DESCRIPTION

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

MATERIALS

Bluestone:

Bluestone shall be No.1 clear quality New York State bluestone meeting the requirements of ASTM C-629. Reed stone will not be accepted. The bluestone shall be free stone (meaning solid with no black lines showing with grain) and shall be in the color range of blue/gray/green; no red or lilac color stone will be acceptable. Natural color variations that are characteristic of the deposit will be permitted. The bluestone shall be of similar color range of existing slate. Any bluestone containing discoloration other than cleanable surface stains must be approved by the Engineer prior to inclusion in the work.

The stone shall be free from seams which impair its structural integrity and of a smooth machining character. Any pieces with spalled or chipped edges shall be rejected. The top (exposed) surface shall have a thermal (flame) finish, the edges shall be smooth sawn and the bottom shall have a gauged rubbed finish.

Bluestone shall be as dimensioned on the plan sheets. Bluestone shall be cut to size, full dimension and square.

A sample piece(s) shall be provided for approval by the Regional Landscape Architect.

Stone Dust:

Stone dust setting bed material shall consist of hard, durable, uncoated particles of rock, free from lumps of clay and all deleterious substances. The setting bed material shall meet the following gradation requirements:

<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

CONSTRUCTION DETAILS

The bluestone shall be placed on the stone dust setting bed and set at the grade and slope shown on the plans, or as directed by the Engineer, by a mason. Stone dust must be moist prior to compaction. The stone dust shall be compacted using a self propelled vibratory roller pre-approved by the Engineer. All hollows and depressions shall be filled with stone dust and compacted again. The process of shaping, filling, and compacting shall be repeated until no depressions or voids develop. Final compacted thickness of stone dust setting bed shall be a minimum of 50 mm. After bluestone is set it should be verified that there are no voids under the

ITEM 608.4001 03M - BLUESTONE SIDEWALK (STONE DUST SETTING BED)

bluestone. If bluestone is uneven, it must be picked and leveled to desired grade. Stone dust shall be added under the full area of the bluestone; raising and packing edges will not be acceptable.

All edges, borders and corners shall be finished to true and neat lines. After the bluestone has been placed, stone dust shall be swept into the joints or as detailed in the contract plans. Any settling which occurs after installation shall be repaired before the end of the contract to the satisfaction of the Regional Landscape Architect.

Damage to adjacent sidewalks by the contractor's operation shall be repaired with the same material to the satisfaction of the Engineer at the contractor's expense. The contractor shall protect the bluestone for the duration of the contract.

METHOD OF MEASUREMENT

This work will be measured as the number of square meters of bluestone satisfactorily placed as approved by the Regional Landscape Architect.

BASIS OF PAYMENT

The unit price bid per square meter shall include the cost of furnishing all labor, materials, sample(s), stone dust setting bed, and equipment, necessary to satisfactorily complete the work. All subbase material and excavation shall be paid for under their appropriate items.