

SECTION 02350

CONCRETE BLOCK PAVING - TERRACE AREAS

PART 1 - GENERAL

1.01 DESCRIPTION

This work consists of furnishing and installing concrete block paving when required by the Contractor.

1.02 QUALITY ASSURANCE

A. Installer Qualifications - Minimum of 2 years experience in comparable paving work.

B. Allowable Tolerances:

1. Block dimensions: Plus tolerance 1/16 inc, minus tolerance 1/16 inch.
2. Completed base course: within 1/2 inch of grade indicated on drawings measured with a 10-foot straightedge.

1.03 SUBMITTALS

Submit manufactures literature on the requested paving block(s).

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Avoid damage to paving blocks.

B. Avoid contamination of sand with water or foreign materials.

1.06 PROTECTION

A. Provide and maintain barricades and warning devices as required to prevent vehicular and pedestrian traffic on newly-installed paving blocks or setting bed.

B. Protect prepared subgrade, base course and setting bed from inundation from any source, until completion of paving block pavement.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Sand - ASTM C-33, except containing maximum of 2% by weight of any combination of shale, schist, alkali, earth, mica, coated grains, and soft or flaky particles. Gradation:

<u>SIEVE SIZE</u>	<u>BEDDING SAND</u>		<u>JOINT SAND</u>	
	<u>PERCENT PASSING</u> <u>MINIMUM</u>	<u>PERCENT PASSING</u> <u>MAXIMUM</u>	<u>PERCENT PASSING</u> <u>MINIMUM</u>	<u>PERCENT PASSING</u> <u>MAXIMUM</u>
3/8"	100		100	
No. 4	95	100	100	
No. 8	80	100	95	100
No. 16	50	85	70	100
No. 30	25	60	40	75
No. 50	20	30	10	35
No. 100	5	15	2	15
No. 200		10		0

2.02 BASE COURSE

- A. The base course shall conform to requirements of the New York State Department of Transportation Standard Specifications, Section 304, Item 304.14 "Subbase Course, Type 4".

PART 3 - EXECUTION

3.01 EQUIPMENT

A. Control Bars

1. Wood or metal, rectangular or circular cross-sections.
2. Smallest dimension sufficient to produce setting bed of finished depth indicated on drawings.
3. Sufficient strength and stability to support required manipulation of screed bar without deflection or displacement.

B. Screed Bar

1. Wood or metal, rectangular in cross-section.
2. Smallest external dimension: 2 inches.
3. Sufficient strength to withstand required manipulation without deflection.

C. Compaction Equipment

1. Plate compactor capable of 5000-pound compaction force.

3.02 INSTALLATION

A. Subgrade

1. Bring to smooth even surface parallel with finished grades indicated on drawings.
2. Remove stones, clay lumps and other objects over 1 inch in greatest diameter from subgrade surface.
3. Adjust elevation of valve boxes, curb boxes, hand holes and other access facilities for underground utilities to meet finished pavement grade.

B. Subbase Course

1. Place and compact to depth indicated on drawings in conformance with requirements of Article 2.02 - BASE COURSE of this section.
2. Compact to 100% dry density as determined by ASTM D-698.
3. Do not proceed with construction until completed subbase course has been approved by Engineer.

C. Setting Bed

1. Place control bars on base course, parallel to each other.
2. Place bedding sand between control bars, strike off even with top of control bars, using screed bar.
3. Fill low or porous areas with additional material and re-screed, repeat until uniform, smooth setting bed, of depth indicated on drawings, is established.
4. Reset control bars to next area to receive setting bed.
5. Fill and level depressions left by control bars.
6. Repeat process described above until entire setting bed is completed.
7. Do not compact bedding sand. Loosen and re-screed sand that has become compacted.
8. Do not allow exposed setting bed to stand overnight.

D. Laying Block

1. Do not lay paving block until setting bed has been approved by Engineer.
2. Place pavers in straight courses, with approximately 1/8 inch wide joints and uniform top surface.
3. Use string lines to hold pattern straight and true.
4. Cut paving blocks as required to maintain pattern along pavement edges with approved mechanical cutting equipment.
5. Sweep surface of paving blocks clean of all debris.
6. Compact surface with minimum of three passes with compactor.

E. Joint Treatment

1. Sweep surface with joint sand until joints are filled.
2. Compact surface with minimum 2 passes with compactor.
3. Continue above process until joints are completely filled with sand.

3.03 CLEANUP

Upon completion of paving operations, remove excess and spilled material from completed surfaces to approval of Engineer.

END OF SECTION