

ITEM 0330101

CONCRETE PAVERS IN MORTAR

DESCRIPTION

This item shall include the furnishing of all labor, materials, and equipment required to provide and install concrete pavers in mortar in the locations shown and as detailed and described in the Contract Documents.

REFERENCED ITEMS

None

REQUIRED SUBMITTALS

Certificates

The Owner's Representative shall be furnished with duplicate signed copies of a statement from the appropriate vendor certifying the analysis of the Processed Aggregate and Mortar.

The Owner's Representative shall also be furnished with duplicate signed copies of a statement from the manufacturer of each manufactured product that the product complies with the requirements of the Contract Documents.

Samples:

Provide the samples listed below:

- a. Concrete paving unit samples for each type of paving required. Include in each set the full range of color and texture to be expected in the completed work.
- b. Colored concrete mortar samples for the color required showing the range of color which can be expected in the finished work. Label samples to indicate type and amount of colorant used.

PRODUCT HANDLING

Protect concrete materials during storage and construction against wetting by rain, snow or ground water and against soilage or intermixture with earth or other types of materials.

Protect grout and mortar materials from deterioration due to moisture and/or temperature. Store in a dry location or in a weatherproof container. Keep containers tightly closed and away from open flame. Protect liquid components from freezing.

Cold Weather Protection: Frozen Materials: Do not use frozen materials or materials mixed or coated with ice or frost. Frozen Work: Do not build on frozen subgrade or setting beds. Remove and replace concrete work damaged by frost or freezing.

SPECIAL REQUIREMENTS

Additional Pavers

Purchase and deliver to the City Yard, located at 40 Jennings Road, 2 palletes of each of the paver types and colors. Include cost in unit cost of pavers to be installed.

MATERIALS

Concrete Paving Units

The paving units shall be as manufactured by Pavestone, 888-409-7992, or approved equal. The colors and shapes shall be as listed below. The compressive strength shall average greater than 8,000 psi minimum. The absorption shall be 5% or less. The pavers shall meet or exceed ASTM C-936-01.

Special Conditions - The paver color(s), if specified, may be a "custom order". The contractor shall coordinate with the manufacturer to provide samples on a timely basis and secure orders in time to prevent delays due to production schedules.

Concrete Paver Descriptions:

NOTE: Paver names, descriptions, and special patterns are based on PAVESTONE product descriptions.

PAVER E: Soldier Course bordering flush granite curb.
Holland Stone, Heritage Series (tumbled texture): 2.5" x 4" x 7.75"
Color: As specified on the plans, or as approved by the engineer

PAVER G: Crosswalk Field herringbone pattern
Holland Stone, Heritage Series (tumbled texture): 2.5" x 4" x 7.75"
Color: As specified on the plans, or as approved by the engineer

PAVER H: Triple Stacked Bond pattern.
Holland Stone, Heritage Series (tumbled texture): 2.5" x 4" x 7.75"
Color: As specified on the plans, or as approved by the engineer

Setting Materials

Setting bed mortar shall be 1 to 3 Portland cement sand gauged with Laticrete 3701 Admix. Grouting mortar shall be Laticrete Dry Bond Grout and Joint Filler. Gauged with Laticrete 3701 Admix. Bond Coat shall be neat Portland cement gauged with Laticrete 4237 Tile Setting Liquid. Mortar and grout additives shall be as manufactured by Laticrete International, Inc., Woodbridge, Connecticut 06525, or approved equal. Color shall be "moss green" to match pavers.

CONSTRUCTION METHODS

General

Do not use concrete pavers with excessive chips, cracks, voids, discoloration or other defects which might be visible or cause staining in finished work.

Cut concrete pavers with motor-driven saw equipment to provide clean, sharp, unchipped edges. Cut units to provide patterns shown and to fit adjoining work neatly. Use full pavers without cutting wherever possible.

Set concrete pavers in patterns shown in the Contract Documents and with uniform joint of widths indicated herein.

Surface Tolerances: The surface plane for finished concrete pavers shall not exceed a tolerance of 1/4" in 10' when tested with a 10' straight edge.

Concrete Pavers on Concrete Base

Install pavers over a new concrete base, paid for under a separate item herein, at the proper elevation as shown in the Contract Documents. Do not use liquid curing compound for curing the concrete.

Before placing slurry bond coat and mortar bed, the surface of both new and existing concrete bases shall be cleaned to remove soil, all existing bituminous concrete paving, mortar, loose concrete, etc.

Dry or dusty concrete surfaces shall be wet down or washed and excess water removed just prior to the application of the mortar bed.

Brush or broom a 1/16" slurry bond coat onto clean concrete.

The mixer shall be a rotating blade type mortar mixer. Following manufacturer's directions, place Laticrete liquid in the mixer, start the machine and add sand then cement. Mix only long enough to wet out the batch. Do not over mix. Stop mixer and dump mortar from the mixer promptly on a just placed Bond Coat.

The prepared mortar shall be spread approximately to the desired bed thickness.

Before placing the pavers on the mortar setting bed, a 1/16" slurry coat shall be applied to the back of each concrete paver.

Concrete pavers shall be placed before the slurry coat dries.

After each concrete paver is laid, it shall be beat in with a wooden block or rubber mallet to level the surface and embed the paver. Beating shall be done before mortar takes initial set. The surface shall be pitched as shown.

Uniform joints shall be maintained. Joints shall be 1/2" width unless noted on drawings.

Excess mortar shall be cleaned from the surface with water as the work progresses.

The Contractor shall take precautions to protect the finished work from damage by other trades. Cold Weather Note: The setting of Portland cement mortars is retarded by low temperatures and finished work should be protected for an extended period of time.

When mortar is sufficiently set and stable, use low-pressure steam to clean the concrete paver surface. Concrete paver surfaces should present a uniformly neat and clean appearance.

METHOD OF MEASUREMENT

The work will be measured for payment by the number of square feet of surface area acceptably paved.

BASIS OF PAYMENT

This work will be paid for at the contract unit price per square foot of "CONCRETE PAVERS IN MORTAR" completed and accepted including all equipment, additional palettes of pavers, tools, labor and incidental expenses thereto.

<u>PAY ITEM</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
0330101	Concrete Pavers in Mortar	SF