DECORATIVE BRICK PAVERS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Decorative Brick Pavers

1.02 DESCRIPTION OF WORK

Installation of decorative brick pavers.

1.03 SUBMITTALS

Comply with Division 1 – General Provisions and Covenants.

A. Sample Pavers: Representative of the type and color proposed for the project.

B. Installation Instructions: Manufacturer’s published installation instructions.

C. Material Certification: Submit certification letter from paver manufacturer indicating compliance with ASTM specifications and contract documents.

1.04 SUBSTITUTIONS

Comply with Division 1- General Provisions and Covenants.

1.05 DELIVERY, STORAGE AND HANDLING

Comply with Division 1- General Provisions and Covenants.

1.06 SCHEDULING AND CONFLICTS

Comply with Division 1- General Provisions and Covenants.

1.07 SPECIAL REQUIREMENTS

None.

1.08 MEASUREMENT AND PAYMENT

A. Decorative Brick Pavers

1. Measurement: Measurement will be per square yard for the area of decorative brick installed. Area of manholes, intakes or other fixtures in the pavement will not be deducted from the measured pavement area.

2. Payment: Payment will be at the unit price per square yard for area of brick paver.

3. Includes: Unit price includes, but is not limited to, furnishing and placing compacted sand base, and jointing sand.
PART 2 – PRODUCTS

2.01 Brick Pavers

A. Concrete per ASTM C 936, Standard Specification for Interlocking Concrete Paving Units.

B. Size and Color: as specified in the contract documents.

C. Manufacturers:
   1. Pine Hall Brick- English Edge beveled edge pavers.
   2. Unilock- Hollandstone.
   3. Approved equal.

2.02 Bedding Sand

A. Gradation:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>% Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 in.</td>
<td>100</td>
</tr>
<tr>
<td>No. 4</td>
<td>95-100</td>
</tr>
<tr>
<td>No. 8</td>
<td>85-100</td>
</tr>
<tr>
<td>No. 16</td>
<td>50-85</td>
</tr>
<tr>
<td>No. 30</td>
<td>25-60</td>
</tr>
<tr>
<td>No. 50</td>
<td>10-30</td>
</tr>
<tr>
<td>No. 100</td>
<td>2-10</td>
</tr>
</tbody>
</table>

B. Per ASTM C 33. Crusher screenings not allowed.

2.03 Paver Joint Filler

A. Gradation:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Natural Sand % Passing</th>
<th>Manufactured Sand % Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 4</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>No. 8</td>
<td>95-100</td>
<td>95-100</td>
</tr>
<tr>
<td>No. 16</td>
<td>70-100</td>
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<tr>
<td>No. 30</td>
<td>40-75</td>
<td>40-75</td>
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<td>No. 50</td>
<td>10-35</td>
<td>20-40</td>
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<tr>
<td>No. 100</td>
<td>2-15</td>
<td>10-25</td>
</tr>
<tr>
<td>No. 200</td>
<td>0</td>
<td>0-10</td>
</tr>
</tbody>
</table>

B. Per ASTM C 144.

PART 3 – EXECUTION

3.01 General
A. Cross-section and patterns for installation of decorative brick pavers as specified in the contract documents or approved by the Engineer.
B. Do not use broken pavers or materials with soiled or stained faces.

3.02 Sand Setting Bed

A. Distribute bedding sand evenly over PCC base and screed to 1 inch thickness or per contract documents.

B. Use approved spreader method for spreading bedding sand. Surface variations must be within 3/8 inch when tested with a 10 foot straightedge.

C. Carefully maintain bedding sand in loose condition before and after screeding. Restrict pedestrians and equipment from screeded bedding prior to brick paver placement. Protect from rain. Remove any incidentally compacted bedding or return to profile in a loose condition.

D. Place and screed only the amount of bedding sand that will be paved the same day. Remove, loosen and rescreen unpaved bedding left overnight.

3.03 Paver Installation

A. Clean pavers of stains and foreign material prior to usage. Do not use chipped, damaged or discolored pavers.

B. Place pavers according to patterns specified in the contract documents.

C. Place chalk or string lines on bedding course to maintain straight joint lines.

D. Install pavers from a minimum of 3 bundles simultaneously to assure dispersion and blending of color variations.

E. Place pavers hand-tight and maintain straight joint lines.

F. Use trimmed or cut pavers only along outer pavement boundaries or adjacent to manholes or other features within the pavement area.

G. Cut pavers with a double blade paver splitter or masonry saw.

H. Clean debris from pavement prior to compaction and inspection. Inspection will be made to identify damaged pavers, inadequate color blending, and irregular joint lines. Contractor will remove and replace pavers as required.

I. Compact bricks using a 3 to 5 ton roller or machine with a low amplitude, high frequency vibratory plate weighing a minimum of 100 pounds.
Compactor Size

<table>
<thead>
<tr>
<th>Paver Thickness</th>
<th>Compactive Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3/8 inches</td>
<td>3000 pounds</td>
</tr>
<tr>
<td>2- ¾ inches</td>
<td>5000 pounds</td>
</tr>
<tr>
<td>3- 1/8 inches</td>
<td>500 pounds</td>
</tr>
</tbody>
</table>

J. Use urethane plate compactor pad.

K. Compact pavement surface with a minimum of 3 passes prior to application of joint filler.

L. Reinspect pavers, and remove and replace all damaged or misaligned units.

M. Sweep dry joint filler into paver joints until full. Recompact and repeat until joints remain full after compaction. Sweep and remove excess joint filler.

3.04 Quality Control

A. Ensure final surface is within 3/8 inch deviation when tested with a 10 foot straightedge.

B. Ensure all surfaces have positive drainage.

C. Ensure surface elevation of pavers is 1/8 to ¼ inch above adjacent drainage inlets, channels and curb tops.

D. Ensure adjacent pavers elevation deviate no more than 1/8 inch.

FIGURES

CR 7910.101 Decorative Brick Pavers

END OF SECTION