321443 - Porous Unit Paving

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SECTION 32 1443 - POROUS UNIT PAVING

1.1 SUMMARY

A. Section Includes:
   1. Porous paving consisting of concrete pavers set in aggregate setting beds.
   2. Edge restraints.
   3. Precast concrete curbs.
   4. Granite curbs.
   5. Refer to Chapter 5, Division 32, Section 321216 Attachment A for UNHSC Design Specifications for Porous Asphalt Pavement and Infiltration Beds.

1.2 ACTION SUBMITTALS

1. 

1.3 CONCRETE UNIT PAVERS

A. Solid Concrete Pavers for Porous Paving: Solid interlocking paving units of shapes that provide openings between units, complying with ASTM C 936, resistant to freezing and thawing when tested according to ASTM C 67, and made from normal-weight aggregates.
   1. Thickness: 2-3/8 inches (60 mm).
   2. Color: As selected by University from manufacturer's full range.

1.4 ACCESSORIES

A. Plastic Edge Restraints: not allowed

B. Steel Edge Restraints: Painted or galvanized steel edging, 3/16 inch (4.8 mm) thick by 4 inches (100 mm) high OR 1/4 inch (6.4 mm) thick by 5 inches (125 mm) high, with loops pressed from or welded to face to receive stakes at 36 inches (900 mm) o.c., and with steel stakes 15 inches (380 mm) long for each loop.
   1. Manufacturers:
   2. Color: As selected by University from manufacturer's full range.

C. Aluminum Edge Restraints: Straight, 1/8 inch (3.2 mm) thick by 4 inches (100 mm) high OR Straight, 3/16 inch (4.8 mm) thick by 4 inches (100 mm) high OR L-shaped, 1/8 inch (3.2 mm) thick by 1-3/8 inches (35 mm) high OR L-shaped, 3/16 inch (4.8 mm) thick by 2-1/4 inches (57 mm) high extruded-aluminum edging, with loops pressed from face to
receive stakes at 12 inches (300 mm) o.c., and with aluminum stakes 12 inches (300 mm) long for each loop.

1.5 AGGREGATE SETTING-BED MATERIALS
A. Regional Materials: Aggregate and soil shall be extracted, harvested, or recovered, as well as manufactured, within 500 miles (800 km) of Project site.
B. Graded Aggregate for Subbase: Sound crushed stone or gravel.
C. Graded Aggregate for Base Course: Sound crushed stone or gravel.
D. Sand for Leveling Course: Sound, sharp, washed, natural sand or crushed stone complying with gradation requirements in ASTM C 33 for fine aggregate.
E. Soil Mix for Leveling Course: Sound, sharp, washed, natural sand or crushed stone complying with gradation requirements in ASTM C 33 for fine aggregate blended with planting soil mix.
F. Graded Aggregate for Leveling Course: Sound crushed stone or gravel.
G. Drainage- Geotextile: see 33 4600 for geotextile requirements.
H. Signage- “Salt only” sign shall be provided per wayfinding requirements.

1.6 CLEANING
A. All porous pavements requires cleaning (vacuuming) twice a year.

END OF SECTION 32 1443