SECTION 32 10 00 - BASES, BALLASTS, AND PAVING

PART 1 - GENERAL

1.1 SYSTEM PERFORMANCE REQUIREMENTS

A. Design Requirements
   1. Sidewalks:
      a. Maintain 5 foot minimum clearance from all existing trees where possible.
      b. Provide 6 feet minimum radius turns to accommodate turning radius of tractors used for snow removal.
      c. Develop joint pattern to:
         1) Prevent cracking from expansion and contraction.
         2) Compliment joint pattern in adjacent surfaces.
         3) Saw cut joints are accepted as an alternative method to tooled joints.
      d. Provide a medium broom finish perpendicular to travel direction.
      e. Detectable Warnings: In accordance with local jurisdiction.
      f. Take precaution to avoid puncturing existing irrigation lines with concrete form materials. The contractor will cover all repair costs.
   2. Dumpster Pads:
      a. Determine location of pads for dumpsters with the University Facility Operations, and the campus Architect through the University Project Manager.
      b. Provide minimum pad size of 8 feet x 8 feet to a maximum of 24 feet x 14 feet and a minimum of 6 inches thick.
   3. Bicycle Pads:
      a. Coordinate with the University Project Manager for bicycle pad requirements.
   4. Wheelchair Ramps:
      a. All entrances must be handicap accessible.
   5. Asphalt Parking Lots and Driveways:
      a. If an aggregate base course is recommended by the project’s pavement design, construct the base course utilizing CDOT Class 6 aggregate to the depth specified in the pavement design.
   6. Transformer Pads:
      a. Locate building electrical transformers outside of the building. Coordinate project specific locations with the University Project Manager.
   7. Parking:
      a. Provide striping for stalls 8’-6” x 20’-0” at non-handicap designated stalls.
      b. Provide minimum 20’-0” wide drive lanes.
      c. Wheel stops are not acceptable in parking lots.
      d. Designate ADA parking stalls with painted symbol and a sign.
      e. Provide reflective signage.
      f. Provide banner signs in parking lots where applicable.
         1) 24” wide x 60” long, double sided with 3” pole pockets, heavy duty brackets, and pole mounts on top and bottom.
   8. Monument Sign:
      a. Refer to Part 2.18 – Campus Signage Guidelines

PART 2 - PRODUCTS

2.1 MATERIALS

A. Sidewalks (6 feet wide and over):
   1. Concrete: 6 inches thick, 4000 psi
   2. Reinforcing: Fiber-mesh
B. Sidewalks (less than 6 feet wide):
   1. Concrete: 4 inches thick, 4000 psi
   2. Reinforcing: Fiber-mesh

C. Dumpster Pads:
   1. Concrete: 6 inches thick, 4000 psi
   2. Reinforcing: Fiber-mesh

D. Bollards:
   1. Manufactured, manually removable bollard
      a. 36 in (91.4cm) high x 4-1/3 in (11cm) base diameter, 62 lbs (28 kg)
      b. Color: RAL 7022
   2. Receiver:
      a. Galvanized ground sleeve with stainless steel locking cover; flush mount when bollard removed.

E. Pavement Markings
   1. Pavement-Marking Paint: Alkyd Traffic Marking Paint
      a. Color: White
      b. Non-Reflective
      c. VOC Content: Pavement-marking paints shall have a VOC content of 150 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 32 10 00