

## 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**