Division 12 00 00 FURNISHINGS
Section 12 93 00 SITE FURNISHINGS
Section 12 93 13 BICYCLE RACKS

Part 1 General

1.01 Summary
- A. This section includes specifications for high density bike rack(s):
  - i. with 12 bike parking capacity.
  - ii. with 8 bike parking capacity.
  - iii. with 6 bike parking capacity.
  - iv. with 4 bike parking capacity.

1.02 Submittals
- A. Manufacturer technical drawing.
  - i. Size, shape, and finish.
- B. Installation instructions.
- C. Setback requirements.

1.03 Quality Assurance
- A. Manufacturer Qualifications:
  - i. Minimum 5 years of bicycle rack manufacturing experience.
  - ii. Have manufactured and delivered this style of rack.

1.04 Delivery, Storage and Handling
- A. Inspect shipment upon delivery for freight damage and note complaint with carrier.
- B. Protect bicycle racks during storage and installation.
  - i. Use original packing if possible for storage.
  - ii. Protect finish of rack from scratches or damage with careful handling.

1.05 Warranty
- A. Provide manufacturer's standard warranty.
  - i. Terms of warranty: 1 year from invoice date against defects in materials and/or workmanship.

Part 2 Products

2.01 Manufacturer
- A. Provide high density bike racks: two single-sided options with maximum bike parking capacities of 6 and 4, and two double-sided options with a maximum bike parking capacity of 8 and 12.

2.02 Materials
- A. Rack support Loops: 1.5" round tubing (mild steel or stainless steel).
- B. Rack spine: 3" x 2" x 3/16" rectangular tubing (mild steel or stainless steel).
- C. Rack mounting Feet: 0.375" plate (stainless steel).

2.03 Finish
- A. Mild steel
  - i. Pre-coat:
    1. Epoxy Primer (white semi-gloss smooth primer)
  - ii. Top Coat
    1. TGIC Polyester powder coat (standard).
    2. Plascoat PPA-571 thermoplastic powder coat.

B. Stainless steel

i. Glass-bead blast (SP6 surface finish).

2.04 Dimensions

A. 125.4” long x 46.5” wide x 29.0” high (12 position bike rack)

B. 83.0” long x 46.5” wide x 29.0” high (8 position bike rack)

C. 125.4” long x 27.0” wide x 29.0” high (6 position bike rack)

D. 83.0” long x 27.0” wide x 29.0” high (4 position bike rack)

2.05 Mounting

A. Surface Anchor/Mounting Options (all require 2 x ½” anchors)

i. Concrete wedge anchors.

ii. Concrete wedge anchors with tamper resistant nuts.

iii. Concrete drive spikes.

2.05 Additional Specifications

A. Rack to have all bike support elements welded to spine (i.e. no bolted connections).

B. Rack supporting elements to only support bike on one-side thereby eliminating the chance of bending wheels.

C. Rack to orient bikes at a 60 degree angle relative to rack spine.

D. Rack to eliminate handlebar interference between parked bikes with standard size drop bars (i.e. road bikes) and flat bars (i.e. mountain bikes).

E. Rack to provide at least two points of contact for each bike.

F. Rack to space bikes 20.75 inches apart (from centerline to centerline of bikes).

G. Rack to allow bikes to lean at a 5 degree angle.

H. Rack to allow both the bike frame and one wheel to be locked to the rack with a variety of u-lock styles as small as 8” long x 4” wide (measured between the inside edges of the u).

Part 3 Execution

3.01 Installation

A. Surface Mount:

i. Install 2 fasteners per bicycle rack as designated in manufacturer specifications.

ii. Install bicycle rack in accordance with APBP (Association of Pedestrian and Bicycle Professionals) recommendations for location and spacing.

B. The installer is responsible for ensuring the mounting surface and installation method are adequate to safely secure the bicycle rack.