

## PART 1: GENERAL

### 1.1 Summary

Section includes written specifications for the Varsity® MBA (Multi-Base Accessory) Bike Dock - DV215.

### 1.2 Quality Assurance

#### A. Manufacturer Qualifications:

1. A manufacturer experienced in manufacturing and producing commercial bicycle parking racks similar to the desired specification described for this project and with a record or successful in-service performance.
  2. Product Options: The manufacturer will be able to produce several finish and color options, and types of the bicycle racks from a single source or from resources able to provide product options of like quality in both form and function.
  3. Manufacturer Service Options: The manufacturer will be able to present product specific drawings of the bicycle racks size, shape, dimensional requirements, and weight.
- B. Installer Qualifications: Experienced installer has completed installation of bicycle racks similar in specifications and to the extent indicated for this project.

### 1.3 Submittals

- A. Product Information: Must contain physical descriptions such as bicycle parking capacity, dimensions, shape, installation hardware requirements, and finish options for each bike rack.
- B. Installation Drawings and/or Installation Video: Details installation instruction for the designated bicycle rack. Drawing packages and submittals can be supplied by Ground Control Systems.
- C. Assembly Instructions: For Varsity® MBA Bike Dock - DV215
- D. Product Verification: Able to Submit finish samples for review and verification upon request.
- E. Manufacturer's Project References: Able to provide a minimum of three references for whom the firm provided similar or comparable services during the last 5 years and a description of the services provided.
- F. Warranty: Submit manufacturer's standard warranty.

### 1.4 Delivery, Storage, and Handling

- A. Delivery: In order to ensure shipments are received undamaged, a thorough inspection must be performed and noted on the B.O.L. upon receipt of shipment.
- B. Storage: Bicycle racks and components should be stored in their original packages or containers until they are ready for installation.
- C. Handling: Before and up to installation, bicycle racks should be handled with sufficient care in order to prevent any finish damage.

### 1.5 Warranty

Manufacturer's Warranty: Bicycle racks carry a one year limited warranty against defects in materials and workmanship beginning on the date they received.

## PART 2: PRODUCTS

### 2.1 Manufacturer

Provided bicycle racks designed by Ground Control Systems®, 708 Alhambra Blvd, Suite 200, Sacramento, CA, 95816, 1-800-630-7225, Fax: 1-866-532-9049, Website: [www.groundcontrolsystems.com](http://www.groundcontrolsystems.com).

### 2.2 Materials

- A. Pipe: ASTM A53 Steel for all pipe
- B. Flange: ASTM A36 Steel
- C. Locking Loop: ASTM A36 Steel
- D. Smart Guards: Two cushioned black injection molded urethane Smart Guards that attach to the Locking Loops (wings) for extra protection for bikes against paint damage from the metal dock.
- E. MBA Base: Roto-molded low/medium density Polyethylene (100% Recycled)
- F. Tire Bar: Aluminum SCH 40 pipe
- G. Filling: All-Crete™ or similarly specified concrete, Sand (Reclaimed/Recycled)

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### 2.3 Finishes

- A. DV215 Varsity® Head:
  - 1. Black Polyester Powder Coat
  - 2. Hot Dipped Galvanized finish (marine environment).
- B. MBA Base:
  - 1. Standard Black Polyethylene (100% Recycled)

### 2.4 Space Use

- A. Varsity® MBA - DV215 Setbacks:
  - 1. Wall Setbacks:
    - a. For bikes set parallel to the wall, a minimum of 24" is recommended.
    - b. For bikes perpendicular to the wall, a minimum of 19" is recommended.
    - c. For diagonal parking with a 30° angle, a minimum of 16" is recommended.
  - 2. Street Setback:
    - a. For bikes parallel to the street 45" is recommended.
    - b. For bikes perpendicular to the street 38" measured to the edge of the rack is recommended.
    - c. Where vehicle parking is prohibited 19" is the recommended minimum.
    - d. If possible, avoid installing the bike rack in a car door opening zone.
  - 3. Distance Between Racks:
    - a. A minimum of 32" center-to-center spacing is recommended for best space and bike efficiency. 38½" is recommended for the best user-friendly experience.
    - b. Diagonal positioning will increase walk space for narrow areas but will decrease the space needed for locking the bike.

## PART 2: PRODUCTS

### 2.5 Product Details

#### A. Varsity® MBA - DV215

1. 2 bike capacity, long or short term parking.
2. Polyethylene formed wheel pockets: index either front or rear wheel in a well.
3. Non-permanent freestanding for quick deployment or permanent with rail attachment.
4. Locking Loops: resist cutting, rusting, and bending or deformation.
5. Angled stem for space efficiency and prevention of overlapping handlebars. Creates a sweet spot for locking bikes.
6. Injection molded urethane guards protect the bicycle from metal-to-metal contact to prevent damage to the bicycle.
7. Hardware:
  - a. Head: Carriage Bolt ½"-13 X 2.50" HD Galv QTY: 2, Flat Washer HD Galv QTY: 2, Hex Nut ½"-13 HD Galv QTY: 2
  - b. Base: Cleat Plate QTY: 2, Rubber Bumper QTY: 4, Threaded Anchor QTY: 12

## PART 3: EXECUTION

### 3.1 Examination

Examine footprint to ensure conditions are adequate for installation. Do not proceed with installation if conditions are not adequate for installation. Notify the project manager if conditions are unsatisfactory.

### 3.2 Preparation

Make sure the location of the bike racks is flat, level, square, accurate for alignment, and correctly located for the installation of the bike racks. Shimming may be necessary for tapered and uneven grades.

### 3.3 Installation

- A. Surface mount: Freestanding - concrete filled
- B. Surface Rail Mount: An above ground rail that allows for the mounting of 2, 3 or 4 bikes and has the option to adjoin rails for additional parking.

### 3.4 Quoting

- A. Product Specification: Make sure the product item, finish options, installation hardware, fasteners, and expected lead time have been included in the estimate.
- B. Product Pricing: Quotes are in US Dollars and valid for 90 days.
- C. Product Pricing: Quotes for Special Orders are valid for 30 days. (Special orders are purchases containing non-stocking products, custom colors, or quantities higher than what is typically on hand.)
- D. Shipping Pricing: Shipping Quotes are estimates and only good for 30 days - cost may fluctuate up to 25%.

### 3.5 Freight

- A. Varsity® MBA Bike Dock - DV215 can be shipped UPS and in some cases freight LTL, depending on quantity on order. Call Ground Control Systems at 1-800-630-7225 for a formal quote.
- B. Shipment Pricing: Estimates are good for 30 days; contact a Ground Control Systems representative for a current price list.

### 3.6 Purchasing

- A. Product specification: Make sure the product item, finish options, fasteners, and expected lead time have been included in the estimate.
- B. Pricing: Estimates are good for 90 days (30 days for special orders); contact a Ground Control Systems representative for a current price list if the estimate has expired.
- C. Shipping Pricing: Shipping Quotes are estimates and only good for 30 days - cost may fluctuate 25%.
- D. Placing an order: You can order via phone 1-800-630-7225; Fax 1-866-532-9049; Email - [info@groundcontrolsystems.com](mailto:info@groundcontrolsystems.com). Or, if submitting purchase orders, mail to: 708 Alhambra Blvd, Suite 200, Sacramento, CA, 95816.