

**ITEM 615.61 39 – SPRAY SHOWER BOLLARD WITH PNEUMATIC ACTIVATED VALVE (NYCDPR)**

**DESCRIPTION**

This work shall include furnishing and installing a spray shower bollard with pneumatic activated valve (NYCDPR) in accordance with the contract documents and as directed by the Engineer.

**MATERIALS**

The following sections of the standard specifications shall apply:

Portland Cement Concrete – General – Materials	§501-02
Epoxy Coated Bar Reinforcements	§709-04
Bar Reinforcement, Grade 520	§709-14
Galvanized Coatings and Repair Methods	§719-01
Subbase Course, Type 4	§733-0404
Sand Backfill	§733-15
Water Service Pipe, Service Valve and Fittings	§722-06

The spray shower bollard with pneumatic activated valve (push button activator) shall be:

Mushroom Bollard with Integrated Push Button  
Model No. 509-MA-LF Normal Flow at 10.5 GPH at 20 PSI

as manufactured by:

Aquajoux International, Inc.  
1709 Montée Ste-Julie  
Ste-Julie (Quebec) J3E 1Y2  
(888) 441-2040

as represented by:

ACM Playgrounds, Inc.  
P.O. Box 179  
Buchanan, NY 10511  
(914) 739-6858  
[www.acmplaygrounds.com](http://www.acmplaygrounds.com)

The color shall be as per the contract documents.

Concrete: The concrete for the footing shall conform to Type A Concrete.

Copper Tubing: The water service pipe shall be hard tempered Type 'K' copper tubing meeting ASTM No. B88-1974. Copper tubing and fittings are to be supplied from valves on the water supply line to the fixture. Connection to the shower head shall have a dielectric fitting.

Submittals:

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1. O & M Manual: The Contractor shall furnish six (6) copies of the Operation & Maintenance Manual prepared in conjunction with the manufacturers of equipment in this specification. One (1) of which shall be laminated in order to be kept at the site, either in the equipment room or in the equipment vault. The O & M manual shall contain the following:
  - 1) Description of system operation and operating modes.
  - 2) Start-Up Procedures.
  - 3) Troubleshooting and Repair Guide
  - 4) List of part with their model numbers.
  - 5) Diagram showing valve and hydraulic activator assembly
  
2. Tools and Hardware Maintenance Repair Kit: The Contractor shall furnish one (1) kit complete with toolbox, fastener, and two (2) tamper resistant tool wrenches for nozzle included with the equipment. The repair kit shall be clearly marked with the Contract Number and the name of park. Marking shall be done with permanent magic marker or other method approved by the Engineer.

**CONSTRUCTION DETAILS**

Spray shower bollard with pneumatic activated valve shall be installed per the contract documents and manufacturer’s instructions. In addition, the following sections of the standard specifications applies:

Excavation and Embankment - Construction	§203-3
Portland Cement Concrete – Construction Details	§501-3

Excavation for Foundation: All excavation shall be cut accurately to required lines and dimensions for work on drawings and shall be large enough to provide adequate clearance for the proper execution of the work within them. The Contractor shall not proceed with the foundation work and the concrete without approval.

Forms: Forms for footings shall be lined with exterior grade plywood. The formwork shall be coated with an approved oil or lacquer.

Cast in Place Footings and Sub-slab: Foundation material and concrete shall be installed according to placement requirements stated in the contract drawings.

Field Connection: All field connections to be made by a licensed plumber.

Vertical components shall be installed plumb and true to line and elevation. Nozzles shall be adjusted as necessary to ensure the desired jetting of water.

The Contractor shall pretest all equipment components and nozzles before backfilling. After paving is completed, all nozzles shall be readjusted for proper operation and spray patterns.

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Approvals: An authorized representative of the manufacturer shall inspect and approve the installation before any work is accepted and deemed complete. No additional compensation shall be made to the Contractor for any necessary corrective work.

The Contractor shall turn over the entire system in good operating condition. The Contractor shall demonstrate the functioning spray shower bollard prior to receiving final approval.

Manufacturer's Training and Demonstration: After testing is completed and approved, a training and demonstration session shall be held for the operation and maintenance staff of any appropriate agencies. The training and demonstration session shall be performed by the manufacturer of the spray shower bollard. The demonstration shall include identification and operation of each component, trouble shooting for each component, winterizing the system, removal and replacement of defective components, general and specific requirements for system maintenance, and a check list for frequent attention of components.

Submittals: The Contractor shall submit the following for review and approval prior to manufacture:

1. Shop Drawings: The Shop Drawings shall indicate, as a minimum: general layout, dimensions, materials, finishes, supports, hardware, fittings, control panel, solenoid valves, and accessories.
2. Catalog Cuts: Catalog cuts shall include the hydraulic activator and concrete footings indicated.

**METHOD OF MEASUREMENT**

This work will be measured as the number of each spray shower bollard(s) with pneumatic activated valve(s) (NYCDPR) satisfactorily furnished and installed.

**BASIS OF PAYMENT**

The unit price bid for each spray shower bollard with hydraulic activator furnished and installed shall include the cost of all labor, materials, equipment, and incidentals necessary to satisfactorily complete the work. Work under this pay item shall include excavation, sand, subbase course, concrete foundation with reinforcements and copper pipe.