

ITEM 11631.92 M – REMOVABLE SPRAY SHOWER (NYCDPR)

DESCRIPTION

The work shall consist of furnishing and installing Removable Spray Showers in accordance with the details indicated in the plans at the locations indicated in the plans or where directed by the Engineer.

MATERIALS

Unless otherwise specified herein, all materials and methods of construction shall conform to the requirements of Section B, "Materials and Methods of Construction", issued by New York City Department of Parks and Recreation.

Showerhead: The showerhead shall be cast brass. Shower holes shall be 3 mm (1/8") in diameter, drilled, and reamed smooth. Bolt holes shall be drilled and tapped for 16 mm (5/8") U.S. Standard bolt threads. The bottom of the showerhead shall be machined and ground smooth.

After the showerhead has been completed, it shall be electroplated with a substantial coat of nickel and then with a heavy coat of chromium and polished. Holes that become restricted due to plating shall be reamed clear.

Bolts: Bolts for the showerhead shall be of stainless steel and shall have U.S. Standard 16mm (5/8") bolt threads. Bolts shall be of the proper length and heads shall have American vandal proof slots. Furnish one American type wrench with each shower head.

Gasket: Gaskets shall be rubber full face gaskets. Furnish two (2) standard 127 mm (5") by 254 mm (10") rubber full face gaskets, Crane or approved equal. Gaskets shall be modified for 16 mm (5/8") bolts. One gasket shall be delivered to the Engineer and one gasket shall be installed between the showerhead and top 13 mm (1/2") thick holding plate.

Holding Plate: A holding plate shall be installed between the gasket and top 127 mm (5") flange. The plate shall be of steel, galvanized, machined 254 mm (10") in diameter with a 63.5 mm (2-1/2") diameter hole in the center and eight (8) clear holes to pass standard 16 mm (5/8") bolts and to match the 127 mm (5") by 254 mm (10") standard flange.

Flanges: The top flange shall be of galvanized malleable iron 127 mm (5") by 254 mm (10") standard, screwed and modified with 16 mm (5/8") bolt holes. This flange shall be welded to the 127 mm (5") steel pipe with a continuous bead. The bottom flange shall be a standard galvanized malleable iron blind flange modified without bolt holes and with a round hole bored through its center to pass a standard 51 mm (2") plain steel pipe coupling. Coupling shall be welded to the modified blind flange. The top face of this blind flange shall be ground smooth at the welded portion and flange shall be set level with the final grade at this point. The bottom flange shall have four (4) 16 mm (5/8") diameter rods welded to it at each quarter point as shown on the plan.

Pipe Stand: The outer pipe of the shower assembly shall be of 127 mm (5") galvanized steel pipe, threaded at one end and plain at the upper flange, after the flange has been screwed to the pipe, with a continuous bead. The lower portion of the 127 mm (5") pipe shall have a 13 mm (1/2") thick galvanized steel plate welded to

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it, with a clear hole 3 mm (1/8") greater in diameter than the outside diameter of a standard 51 mm (2") steel pipe. Four (4) 6 mm (1/4") holes shall be drilled into the 127 mm (5") pipe at the quarter points. The 6 mm (1/4") holes shall be drilled so that the bottom of the 6 mm (1/4") holes will be flush with the top of the bottom inner plate.

Water Pipe: The water line shall consist of a short length of pipe threaded at both ends above grade and held in place by screwing it into a 51 mm (2") pipe coupling at grade and a malleable iron lock nut with rubber gasket and washer at the top. That portion of the water line below grade, through the concrete slab and down to the elbow connecting to the underground water pipe together with the water line above grade shall be standard steel pipe, galvanized with galvanized malleable iron fittings.

The underground water supply pipe for the Removable Spray Shower from the elbow to the valve and drip shall be furnished. This pipe shall be galvanized pipe, galvanized and cement lined.

Plug: Furnish and deliver to the Engineer one 51 mm (2") I.P.S. threaded solid plug with countersunk head. The plug shall be made of stainless steel.

CONSTRUCTION DETAILS

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 and concrete work without the approval of the Engineer.

Underground water supply pipe shall be pitched back from the Removable Spray Shower to the valve and pitch at least 25 mm (1") in 9.14 m (30').

Winterization: Drinking fountains shall be winterized by shutting off water supply and opening bleeder valve (outside of fountain). The fountain shall be designed to allow internal water to drain by gravity, without opening the access door.

Field Installation: All field connections to be made by a Licensed Plumber, as per Section C Special Provisions, Article 19, issued by NYCDPR. All other plumbing work required to complete the installation, including making waste and water supply connections within the fountain, shall be done in the field.

Removable Spray Shower: Shall be installed per manufacturer's instructions and the directions of the Engineer. 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 spray equipment components and nozzles before backfilling.

Submittals: The Contractor shall submit the following for the Engineer's review and approval prior to manufacturing.

Shop Drawing: The Contractor shall submit Shop Drawings. The Shop Drawings shall indicate, as a minimum: general layout, dimensions, materials, finishes, supports, hardware, fittings, control panels,

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solenoid valves and accessories. The Shop Drawings shall be submitted on or before the 'Order to Work' date.

Catalog Cuts: Catalog cuts shall include the hydraulic activator and concrete footings indicated.

O & M Manual: The Contractor shall furnish six (6) copies of the Operation & Maintenance Manual.

Tamper Resistant Tool: The Contractor shall furnish two (2) Tamper Resistant tools for the State.

METHOD OF MEASUREMENT

This work will be measured for payment as the number of Removable Spray Showers (NYCDPR) satisfactorily furnished and installed.

BASIS OF PAYMENT

The unit price bid for Removable Spray Shower (NYCDPR) shall include the cost of all labor, materials and equipment necessary to satisfactorily perform the work.