

11/16/2018

Stop™ Removable Mount Bollard

HANDLE WITH CARE! Pangard II® Polyester Powder coat is a strong, long-lasting finish. Protect this finish from damage during installation. Place unwrapped powder coated parts on packaging foam or other non-abrasive surface. Do not place or slide powder coated parts on concrete or other hard or abrasive surfaces – this will damage the finish causing rust to occur. Use touch-up paint to repair any finish abrasions.

NOTE: Landscape Forms is not responsible for site preparation, footings, or drainage.

Hardware:

Bollards include the following components (see Figure 1):

- (1) – Removable Mount Tube Assembly
- (1) – Removable Mount Socket Assembly
- (1) – Bollard Casting
- (4) – 5/16-18 X 1.25 Set Screws with Thread Adhesive

Necessary Tools:

- Blanket or other padded material
- 3/16" Hex Wrench
- 1/2" Box end wrench

Procedure for embedding the removable bollard socket:

Warning: *Layout of Socket assembly determines the orientation of the bollard casting*

1. Excavate for socket footing and install drain (see Figure 1). Depth of socket is 1'-6". Footing depth is the responsibility of the installer and should comply with local and national building codes. Frost depth should be taken into consideration. Landscape Forms recommends 24" minimum depth to fully retain the socket. *Failure to allow for proper drainage may void the standard Landscape Forms warranty.*
2. Before pouring concrete, make sure the socket is plumb and in the correct orientation. The top of the socket should be flush with the top of the concrete after installation.

NOTE: ALL stop bollards have an alignment guide built into the assembly. The alignment guide consists of a flat edge on one of the components that is 2-11/16" from the center of the bollard tube. This flat edge aligns with the Front of the bollard. This alignment guide is the same for the Surface Mount, Embedded, and Removable Mount STOP bollards (See Figure 2), allowing them to be aligned during installation.

3. Make sure lower end of socket is sealed to prevent concrete from entering. PVC cap may be cut to fit drain connection.
4. Cover top of socket to prevent concrete from entering.
5. Once the concrete has cured, the bollard tube cannot be moved. Plumb the bollard before pouring concrete. After pouring concrete around the bollard tube, re-check plumb.
6. Gently clean all concrete splatter off of the bollard tube. Allow concrete to fully cure.

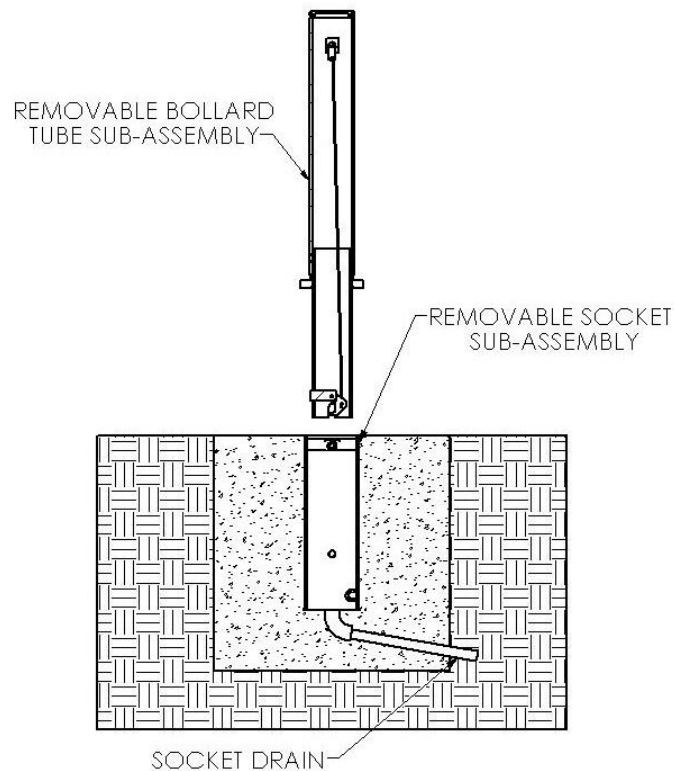


Figure 1 – Removable Bollard Socket Installation and Components

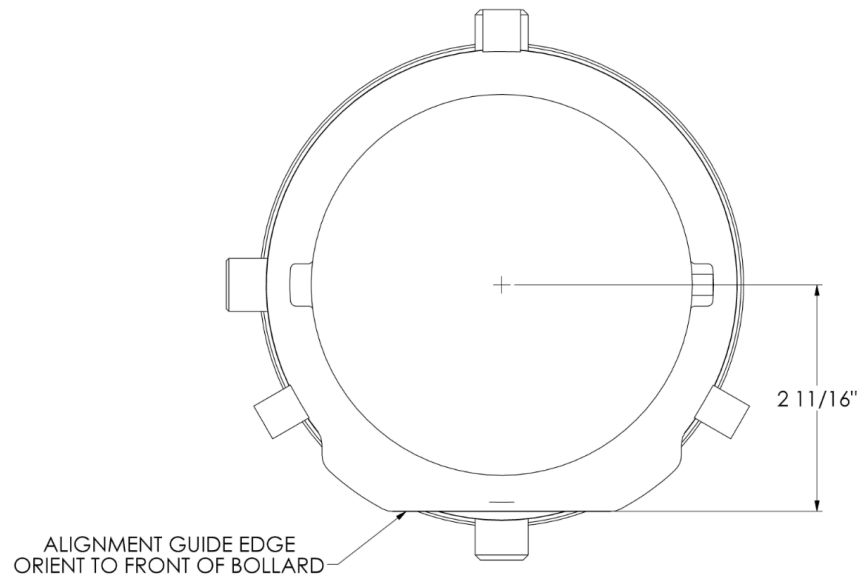


Figure 2 – Top View of Removable Bollard Socket
Showing Alignment Guide

Procedure for installing removable bollards:

1. Remove socket cover plate. (*Hint: use a flat blade screwdriver to pry up edge*)
2. Store socket cover plate *below* cross bar inside socket.
3. Use key to open bollard latch (key horizontal). Remove key.
4. Position bollard near socket and align 2 slots in bollard with bar in socket. The lock should be oriented on the side opposite the flat alignment guide of the socket.

WARNING! TO AVOID INJURY TO PERSONS HANDLING BOLLARD, USE TWO PERSONS TO TEAM LIFT AND CARRY BOLLARD. Weight of bollard weighs ~75 lbs.

5. Ease bollard into socket. Twist until bars fit into slots.

CAUTION: Dropping bollard into socket may damage bollard or socket.

6. Using the ½" wrench, adjust the 3 screws inside the socket to adjust bollard alignment and to improve the fit of the bollard inside the socket. The bolts have nylon patches to resist movement after installation.
7. Use key to close latch (key will be vertical). Remove key.
8. Pull up on bollard tube assembly to insure latch is engaged.
9. Gently place the bollard casting over the removable mount tube and lower it to the mounting flange, using care not to scratch the finish of either component. The open side of the bollard casting is considered the front and should align with the flat edge of the mounting flange.

NOTE: The set screws have a tamper-resistant thread patch pre-applied to them. Once the set screws are installed, the adhesive begins to cure. The next few steps should be completed within 30 min.

10. Install the (4) set screws into the bollard casting until they just contact the mounting flange.
11. Verify the bollard tube is centered within the bollard casting. Adjust as necessary and fully tighten the set screws.
12. Verify alignment of the bollard casting openings with architects drawing(s). If changes are necessary the set screws may be loosened, and the bollard casting may be rotated to the correct alignment. Repeat steps 7 and 8 if this is necessary

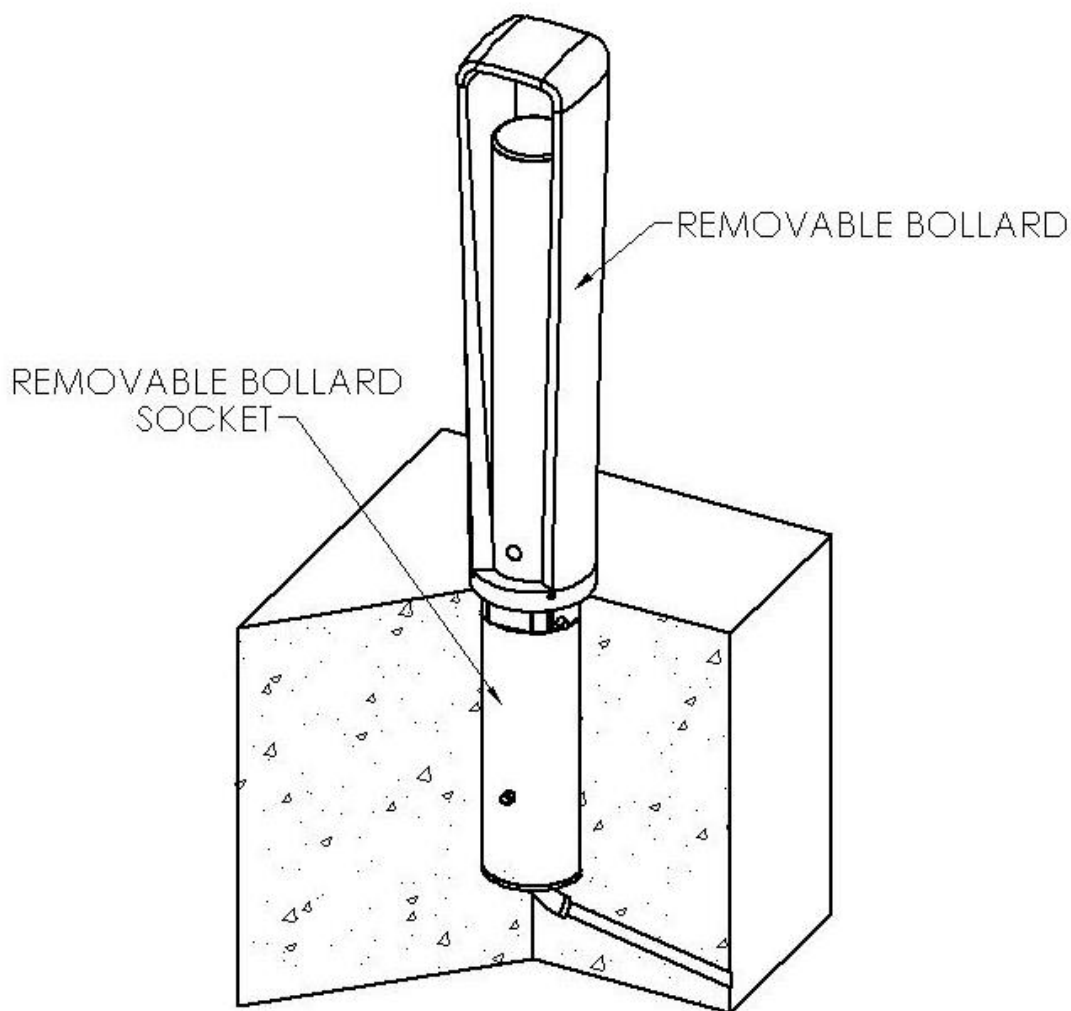


Figure 3: Removable Bollard after Installation

Procedure for removing removable bollards:

1. Use key to open latch (key will be horizontal). Remove key.
2. Carefully lift bollard out of socket and store on surface that will not damage finish.
3. **WARNING! TO AVOID INJURY TO PERSONS HANDLING BOLLARD, USE TWO PERSONS TO TEAM LIFT AND CARRY BOLLARD.** Weight of bollard is 75 lbs.
4. Retrieve socket cover plate from bottom of socket.
5. Place cover plate half onto socket making sure it is sitting flat and below the socket surface.