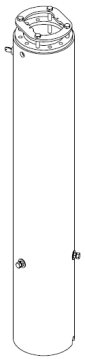
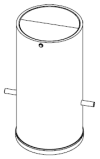
MITER TOP

Included components:



REMOVABLE TUBE WITH DRAW RING



SOCKET WITH COVER PLATES

MITER TOP

O-RING

MITER BODY

#8-32 x 1-1/2" BUTTON HD HEX W/ PIN SCREW -1X

HEX W/ PIN KEY

Tools Required

- safety glasses
- blanket or protective padding
- level
- 5/32" hex key
- 9/16" Socket wrench w/ 6" extension
- drain for socket

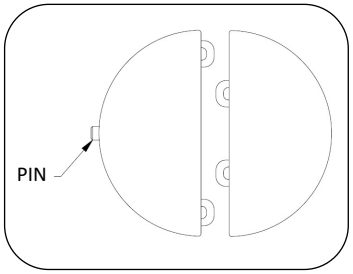


FIG. 1 – COVER PLATE DETAIL

ASSEMBLE WITH CARE! Pangard II® Polyester Powdercoat is a strong, long-lasting finish. To protect this finish during assembly, place unwrapped powdercoated parts on packaging foam or other non-marring surface. Do not place or slide powdercoated parts on concrete or other hard or textured surface – this will damage the finish causing rust to occur. Use touch-up paint on any gouges in the finish caused by assembly tools.

NOTE:

- Landscape Forms is not responsible for site preparation or footings.

PROCEDURE FOR REMOVABLE INSTALLATION:

1. Excavate for socket footing and install drain, see Fig. 2. Depth of socket is 18". Depth of footing is 24" minimum, or as frost conditions require.
2. Before pouring concrete, ensure that the factory-installed tape covers the outside of the hole near the upper end of the socket, see Fig. 2. PVC cap may be cut to fit drain connection.
3. Set socket to proper depth in new concrete. Allow concrete to cure.
4. Remove socket cover plate and separate halves. Use a flat blade screwdriver to pry up edge opposite cover plate pin, see Fig. 1.
5. Store socket cover plates below cross bar inside socket.
6. Use key to open bollard latch (key horizontal). Remove key.
7. Position bollard near socket and align 3 slots in bollard with bars in socket.

WARNING! To avoid injury, use two persons to team lift bollard. Weight of bollard is 75lbs.

8. Ease bollard into socket. Twist bollard tube until bars fit into slots. Do not drop bollard into socket.
9. Adjust screws as necessary to allow fit between bollard tube and socket. Tighten locknuts.
10. Use key to close latch (key vertical). Remove key. Pull up on bollard tube to check engagement.
11. Remove draw ring and 4 hex bolts from top of bollard tube. Set aside.
12. Lift bollard body over removable tube. Rotate tube to correct orientation. The bottom of the sleeve must contact the concrete for proper installation.
13. Install draw ring, see Fig. 2. Draw ring should rest on internal tabs of bollard body. Align draw ring holes with threaded holes on embedded tube.
14. Reinstall (4) hex bolts, tightening in an alternate pattern. **Do not overtighten.**
15. Install the top casting, see Fig. 3. **Do not overtighten screws.**

PROCEDURE FOR REMOVING BOLLARD AFTER INSTALLATION:

1. Remove top casting.
2. Remove hex bolts and draw ring.
3. Lift bollard sleeve off bollard tube assembly
4. Use key on bollard tube to open latch (key horizontal).
5. Lift bollard tube out of bollard socket.
6. Retrieve cover plates from inside bollard socket.
7. Place cover plate half with pin into socket, see Fig. 1. Place second cover plate half in socket.

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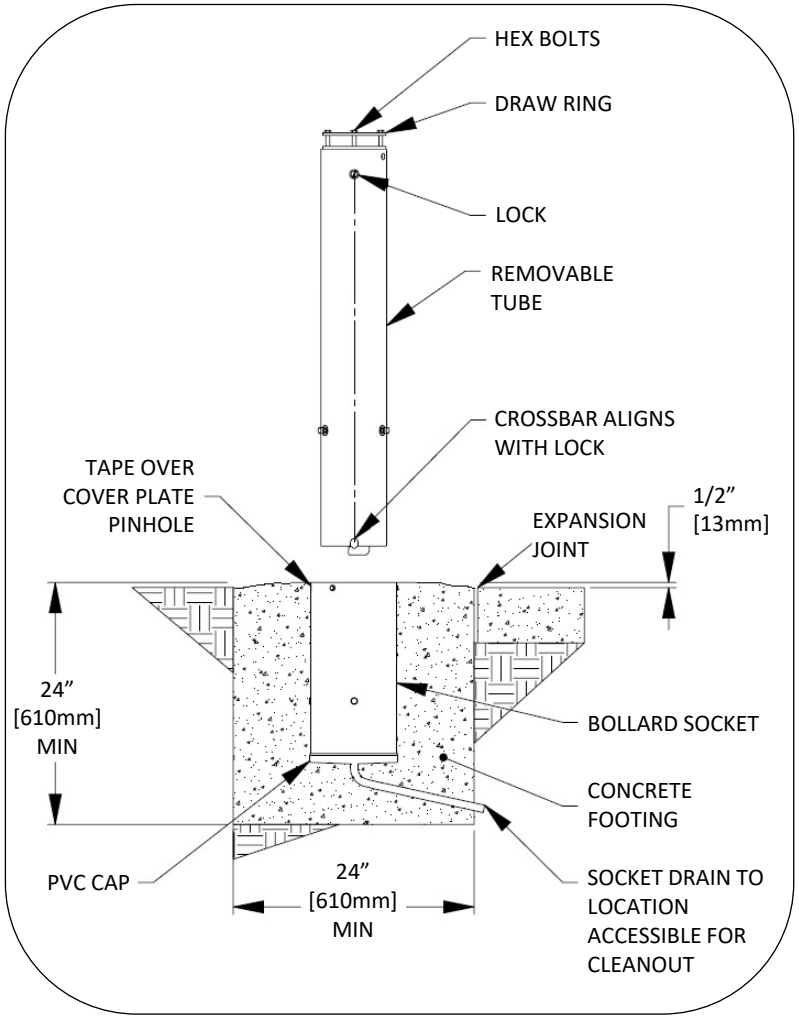


FIG. 2 – REMOVABLE SOCKET DETAIL

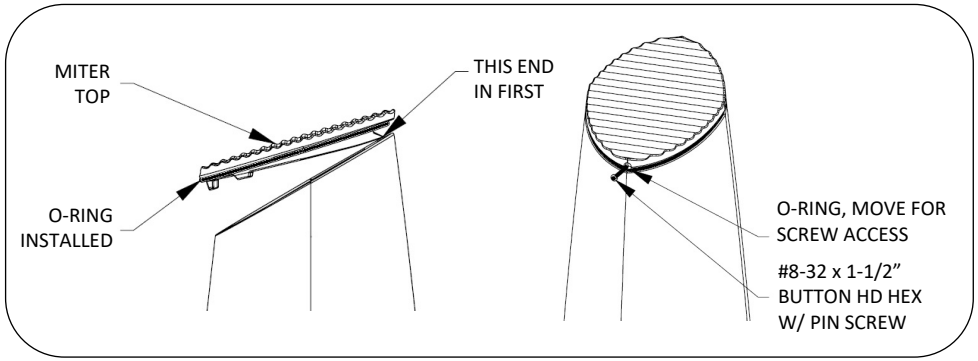
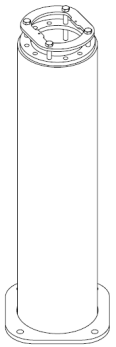


FIG. 3 – INSTALL MITER TOP

MITER
TOP

Included components:



SURFACE MOUNT
TUBE WITH
DRAW RING

MITER TOP

O-RING

MITER BODY

#8-32 x 1-1/2”
BUTTON HD HEX
W/ PIN SCREW
-1X

HEX W/ PIN
KEY

Tools Required

- safety glasses
- blanket or protective padding
- level
- 5/32” hex key
- 9/16” Socket wrench w/ 6” extension
- (4) non-corrosive anchors, max 1/2” dia.
- hammer drill and masonry bit (size determined by anchor type)

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NOTE:

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PROCEDURE FOR SURFACE MOUNT INSTALLATION:

Note: Layout of bollard tube assembly determines the layout of the bollard sleeve – corners of sleeve are aligned with corners of mount plate, see Fig. 1.

1. Set bollard tube in position and mark hole locations.
2. Move bollard, drill holes according to anchor manufacturer’s recommendations and clear holes of debris.
3. Set bollard tube back in position and install anchors.
4. Lift bollard body over surface mount tube. Rotate tube to correct orientation. The bottom of the sleeve must contact the concrete for proper installation.
5. Install draw ring, see Fig. 2. Draw ring should rest on internal tabs of bollard body. Align draw ring holes with threaded holes on embedded tube.
6. Reinstall (4) hex bolts, tightening in an alternate pattern. **Do not overtighten.**
7. Install the top casting, see Fig. 3. **Do not overtighten screws.**

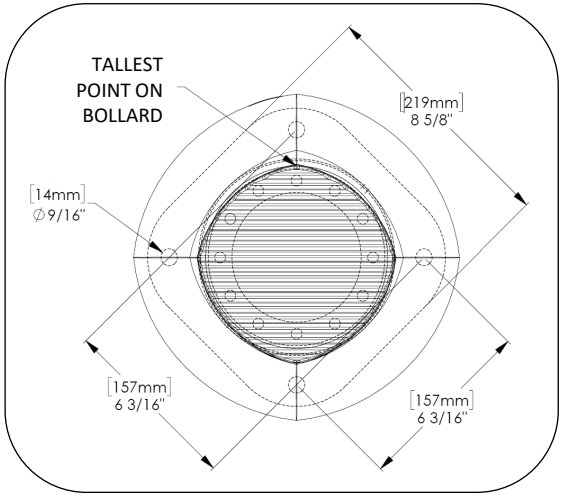

FIG. 1 – BOLLARD ORIENTATION TO BASE PLATE

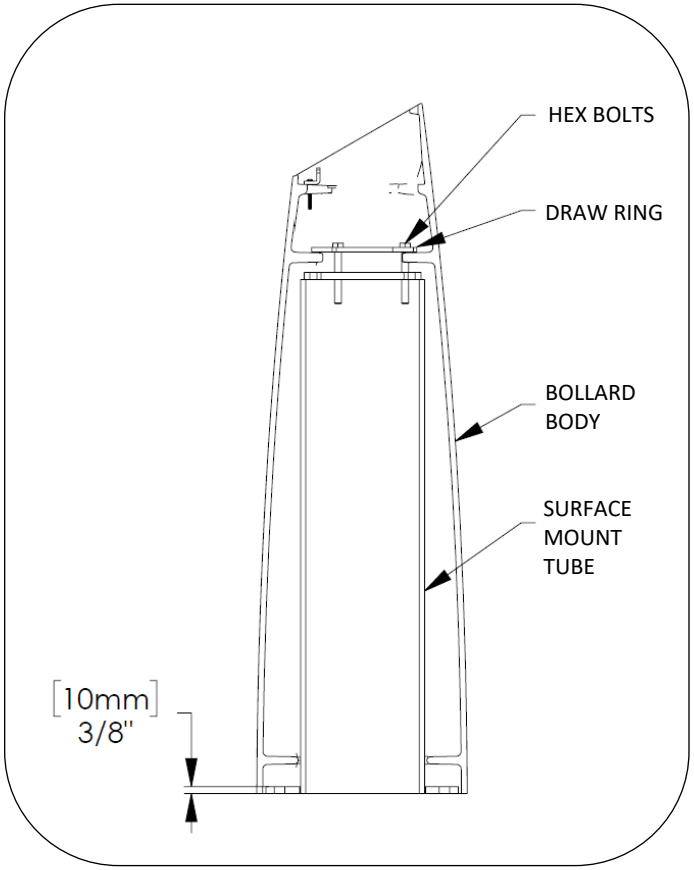

FIG. 2 – SURFACE MOUNT DETAIL

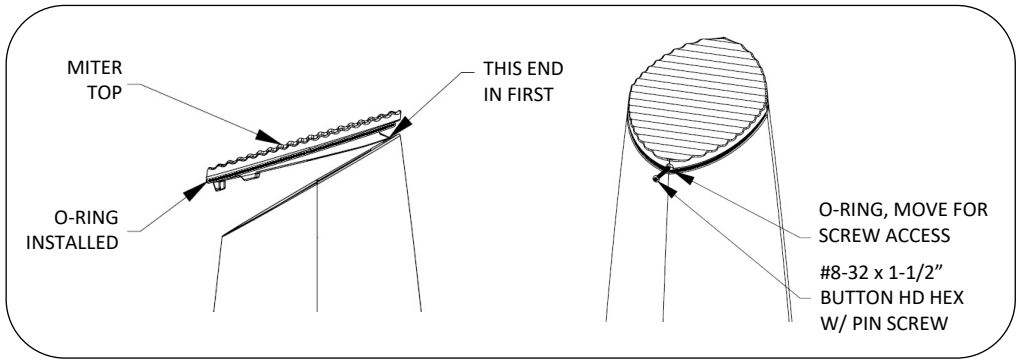

FIG. 3 – INSTALL MITER TOP

MITER
TOP

Included components:

EMBEDDED
TUBE WITH
DRAW RING

MITER TOP

O-RING

MITER BODY

#8-32 x 1-1/2"
BUTTON HD HEX
W/ PIN SCREW
-1X

HEX W/ PIN
KEY

Tools Required

- safety glasses
- blanket or protective padding
- level
- 5/32" hex key
- 9/16" Socket wrench w/ 6" extension

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NOTE:

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PROCEDURE FOR EMBEDDED INSTALLATION:

1. Embed tube in concrete to depth shown in Fig. 1. Tube must be vertical. Brace unit until concrete has cured.
2. Remove hex bolts and draw ring from top of tube.
3. Lift bollard body over embedded tube. Rotate tube to correct orientation. The bottom of the sleeve must contact the concrete for proper installation.
4. Install draw ring, see Fig. 1. Draw ring should rest on internal tabs of bollard body. Align draw ring holes with threaded holes on embedded tube.
5. Reinstall (4) hex bolts, tightening in an alternate pattern. **Do not overtighten.**
6. Install the top casting, see Fig. 2. **Do not overtighten screws.**

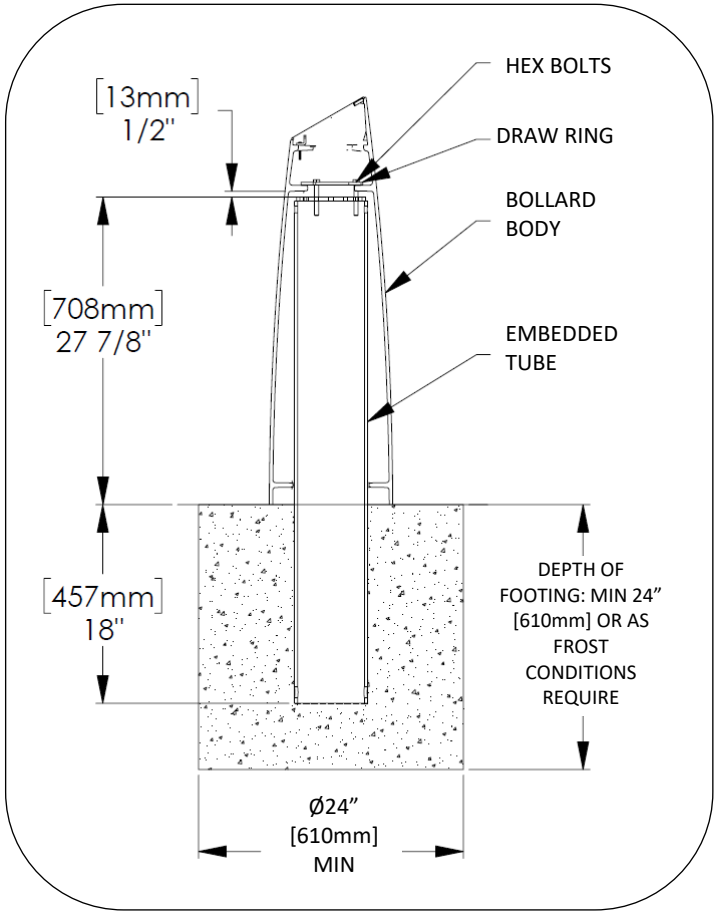

FIG. 1 – EMBEDDED FOOTING DETAIL

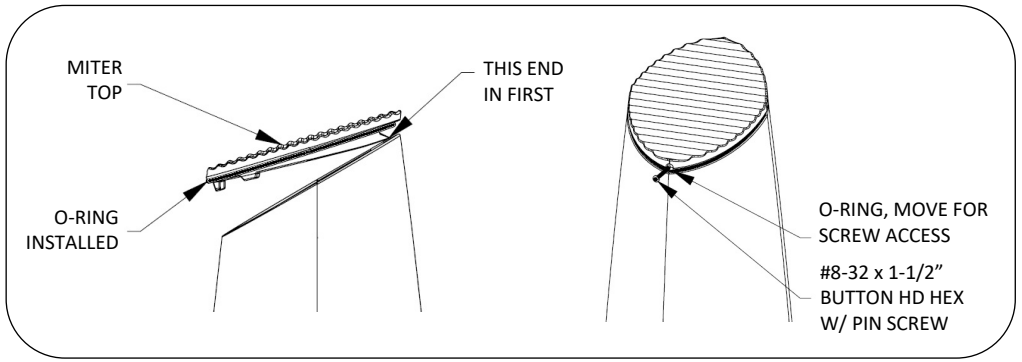

FIG. 2 – INSTALL MITER TOP