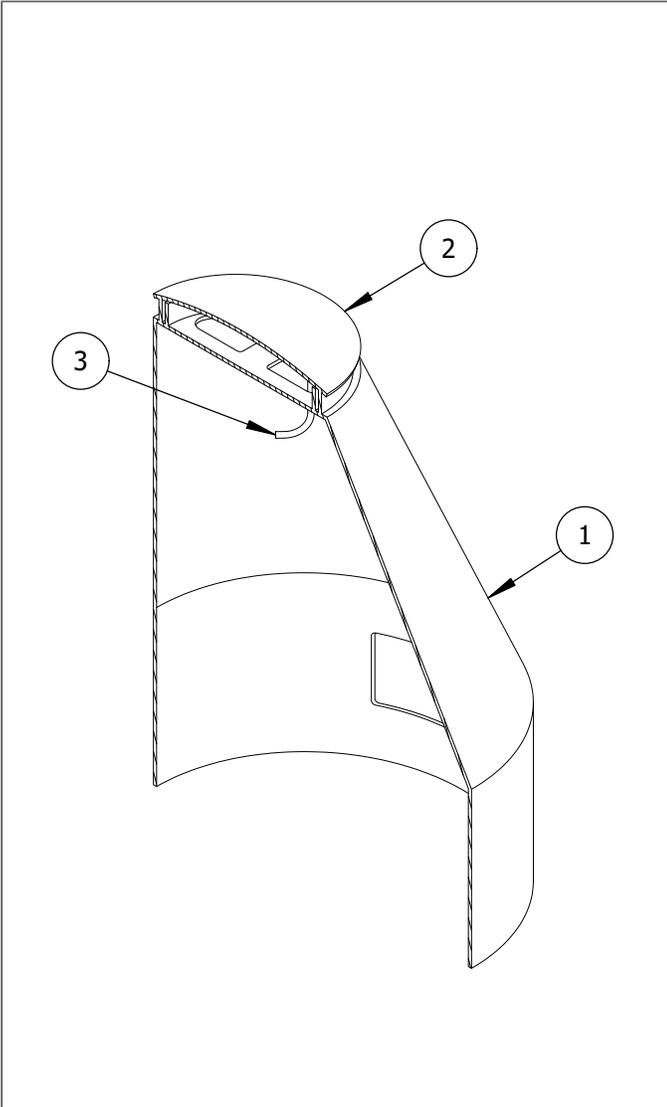


# R-7651-EM Martello Bollard Installation

## Embedded Mounting

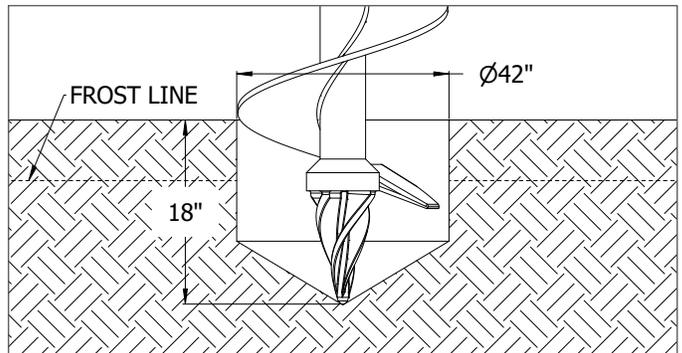


-  To protect the finish, keep bollards in original packaging until exact moment of installation.
-  Handle with care to avoid scratching or damaging bollard surfaces.
-  Once scratched, bollards cannot be repaired to original form without re-finishing the entire surface.
-  Consider local soil conditions before proceeding with bollard installation.

### Before Installation

- STEP 1:** Always check for hazards such as water pipes, gas lines, and underground wiring before digging.
- STEP 2:** Study the site plans and mark the precise center point of each bollard.
- STEP 3:** Please consult your local Building Code Department to determine the recommended depth below the frost line for digging in your area. Choose a minimum of this or 18", whichever is greater. This is the total depth for digging. The diameter of the hole should extend to a minimum of 42". *Note: If you have specific impact requirements, please consult your local civil engineer.*

- STEP 4:** Center the auger on the installation mark and bore a hole to the required depth and diameter.



### Parts List

#	PART	QTY
1	Bollard Body	1
2	Bollard Cover with Reflective Strip	1
3	Concrete Anchor	2

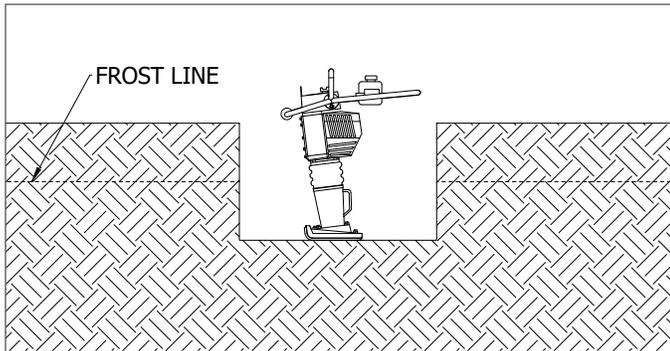
### Installation Equipment

Measuring Tape	Chalk/Marker
Auger	Level
Dirt Tamper	Shovel

# R-7651-EM Martello Bollard Installation

## Embedded Mounting

STEP 5



**STEP 5:** Ensure the area is properly formed to create a perimeter that will hold wet concrete. Use a dirt tamper\*\* to compact the soil below the intended surface.

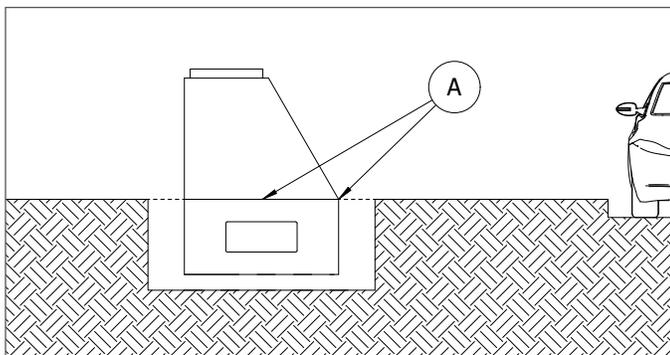
### Set the Bollard

**STEP 6:** Keep the bollard in its protective packaging and carefully place near the installation position.

**STEP 7:** Ensure that the bend (**A**) along the entire circumference of the bollard is flush with the intended finished grade.

**STEP 8:** Orient the bollard so that the sloped side faces the road. *Note: Installers may find it beneficial to use wood or brick to position the bollard so that the bend (**A**) is flush with the intended concrete surface.*

STEP 8



### Pour the Concrete

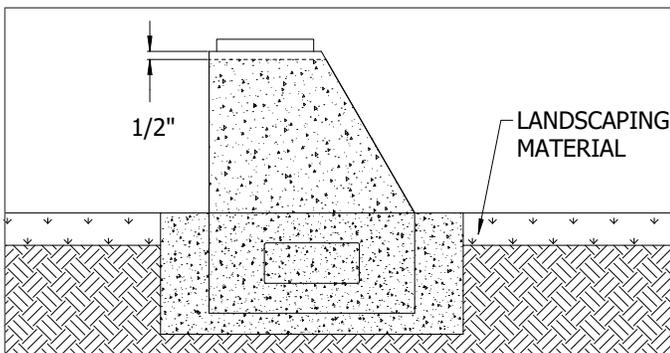
**STEP 9:** Mix the concrete. Check that the proper ratio of water and concrete mix is used—the concrete should have a similar texture to moldable clay.

**STEP 10:** Fill the site around the bollard with concrete until it is level with the finished grade.

**STEP 11:** Start filling the body of the bollard through the holes at the top. Stir and compact the concrete to get rid of all air bubbles. Continue to pour concrete, leaving 1/2" of the top clear.

**STEP 12:** When finished with pouring the concrete, remove the bollard's protective packaging.

STEP 11

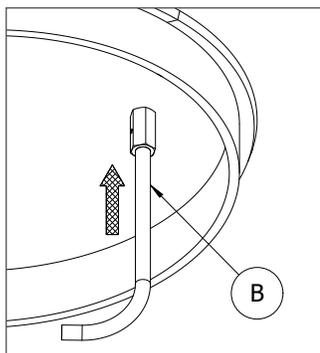


### Install the Cap

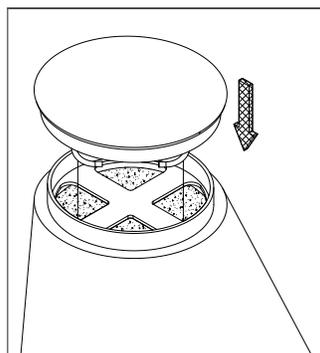
**STEP 13:** Screw the concrete anchors (**B**) into the cap.

**STEP 14:** Fit the cap onto the bollard, ensuring that the longer axis of the cap aligns with the long axis of the bollard base.

STEP 13



STEP 14

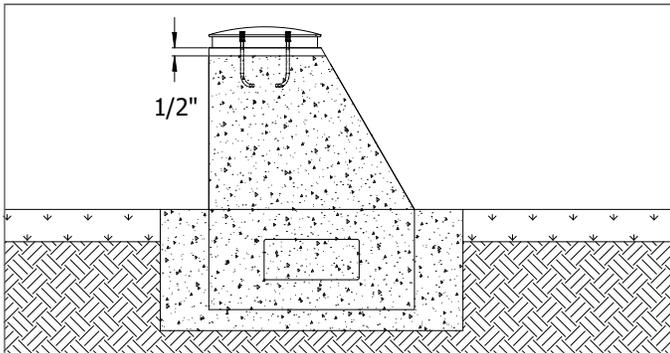


\*\* Dirt tamping is not required if working on undisturbed soil

# R-7651-EM Martello Bollard Installation

## Embedded Mounting

### STEP 15



**STEP 15:** Once aligned, press the cap and concrete anchors into the wet concrete until the cap sits flat on the base.

*Note: Be sure to make any necessary adjustments to the orientation now. Once the concrete cures, there is no way to reposition the cover.*

### Clean the Bollard

**STEP 16:** Use a cloth to clean the surface of the bollard before the concrete cures.



**Inspect the installation.** Abrasions should be covered as soon as possible. For damage repair or other servicing needs, please contact Reliance Foundry's sales department.