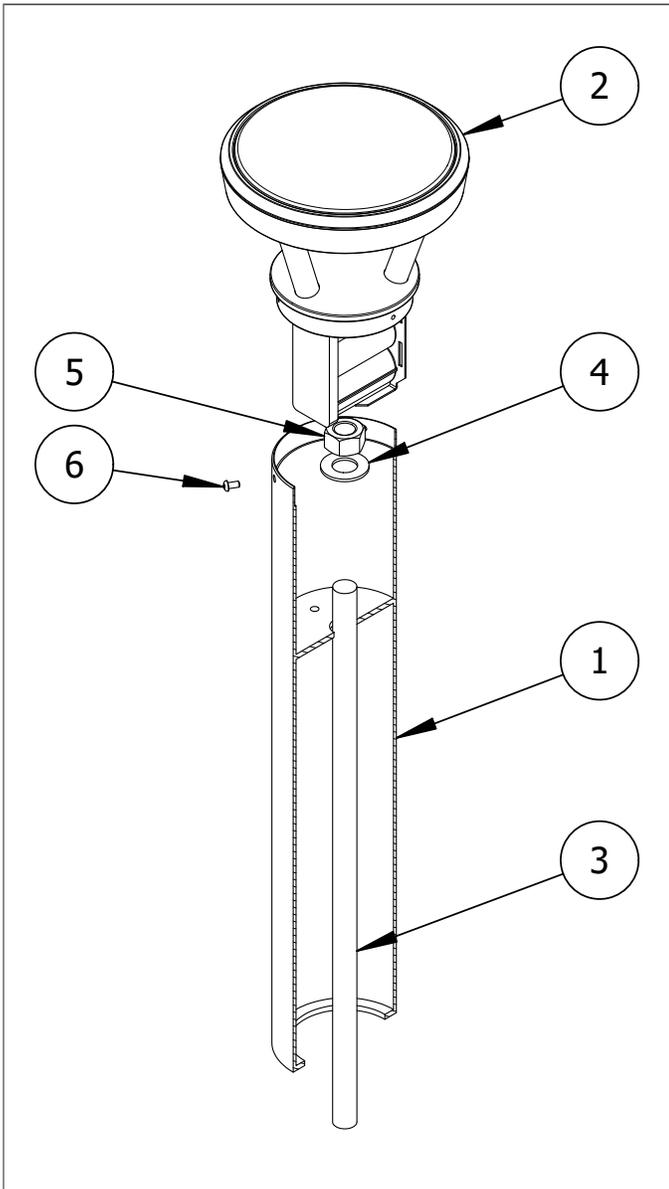


# Solar Bollard Installation

## Adhesive Anchoring

Bollards shown in the diagrams may not be the same model as the bollards shipped in this order. This does not affect the integrity of the installation.



### Installation Equipment

1-1/8" Masonry Drill Bit	Chalk
1-1/2" Wrench	Caulking Gun
Tamper-Resistant Hex Key	Level
Measuring Tape	Vacuum
Hammer Drill or Rotary Hammer	
Adhesive Anchoring System* (included)	

-  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.

### Before Installation

**STEP 1:** Always check for hazards such as water pipes, gas lines, and underground wiring before drilling.

**STEP 2:** Use a broom or pressure washer to clean the concrete surface prior to bollard installation.

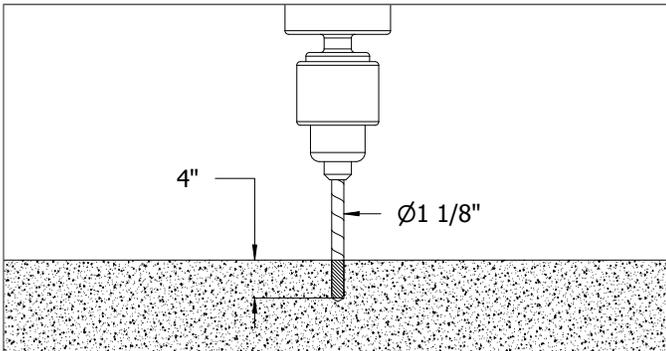
**STEP 3:** Study the site plans to locate and mark the precise center point of each bollard. For secure installation, ensure there is a minimum radius\*\* of solid concrete around each mark.

\*Please refer to the adhesive manufacturer's MSDS before using  
 \*\*Concrete insert manufacturers such as [www.ucanfast.com](http://www.ucanfast.com) recommend a radius of 9"

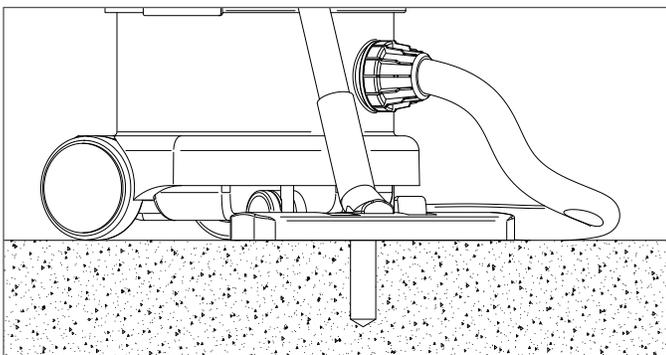
### Parts List

#	PART	QTY
1	Bollard Base	1
2	Bollard Solar Light Cap	1
3	Threaded Bar 1"	1
4	Washer 1"	1
5	Hex Nut 1"	1
6	Tamper Resistant Button Head Bolt 1/4"	3

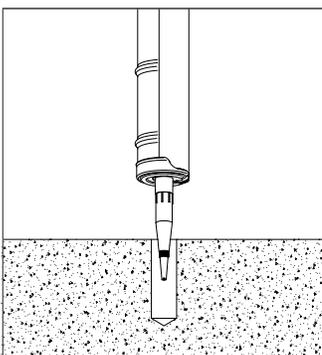
STEP 6



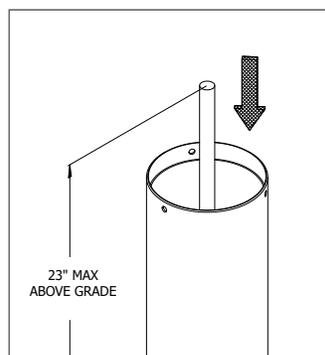
STEP 7



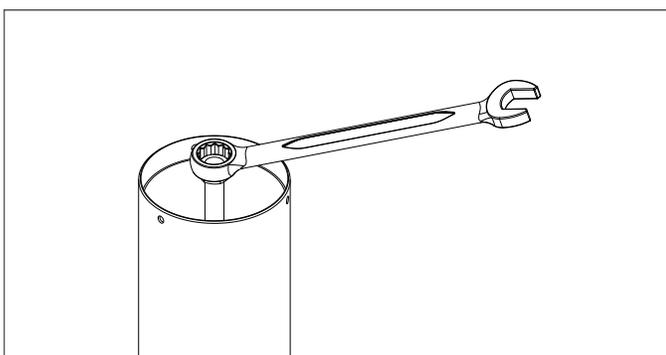
STEP 8



STEP 12



STEP 13



### Drill the Hole

**STEP 4:** Tap a pilot divot hole in the center of each mark.

**STEP 5:** Set the depth control on the hammer drill (or rotary hammer) to 4". If depth control is not available, mark 4" on the masonry bit.

**STEP 6:** Drill holes with a 1-1/8" diameter and 4" depth. Drill on high speed, using the hammer function if available.

### Secure the Bollard

**STEP 7:** Clear the holes of all debris and/or standing water using the vacuum. Use a brush to remove any remaining loose particles.

**STEP 8:** Using the caulking gun, dispense the adhesive from the bottom up until the hole is one-quarter full. Prevent air pockets by withdrawing the mixing nozzle slowly.

**STEP 9:** Carefully place the bollard near the installation position. When ready to install, remove its protective packaging.

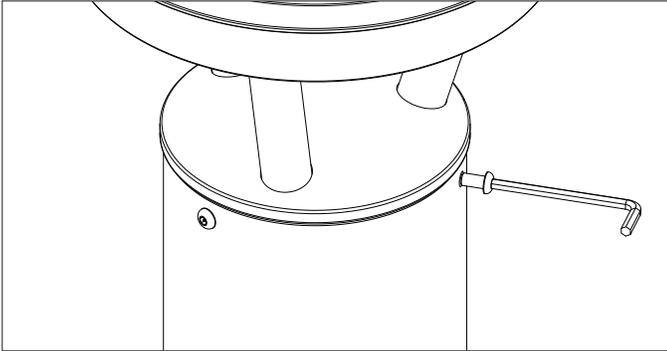
**STEP 10:** Set the bollard base upright and maneuver it so the center lines up with the drilled hole.

**STEP 11:** Lower the threaded rod through the top of the bollard and into the drilled hole.

**STEP 12:** Insert the threaded rod the full 4" into the drilled hole while turning for positive adhesion. The rod should be centered in the bollard's shaft and should extend no more than 23" above grade. *Note: A minimum of 45 minutes at 68°F is required for the anchoring system to set.*

**STEP 13:** Place the washer over the threaded rod so it rests on top of the bollard base. Apply the 1" nut to the threaded rod and use a wrench to tighten until the bollard is secure.

### STEP 17



### Install the Solar Light Cap

**STEP 14:** Keep the lighting assembly still in its packaging and locate the battery's wire plug and connect to the 2-pin socket attached to the light fixture.

**STEP 15:** Once connected, the lighting fixture will run a test pattern and will flash for 3–5 seconds. *Note: If the light does not flash, please stop installation and contact Reliance Foundry's sales department for assistance.*

**STEP 16:** Remove solar light cap from its packaging. Place the solar light cap on top of the shaft of the bollard.

**STEP 17:** Secure the solar light cap to the bollard base with the three bolts and tighten equally. *Note: For asymmetrical lighting, consider the lighting pattern. When attaching the solar light cap, twist it to the desired lighting pattern before bolting down.*



**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.