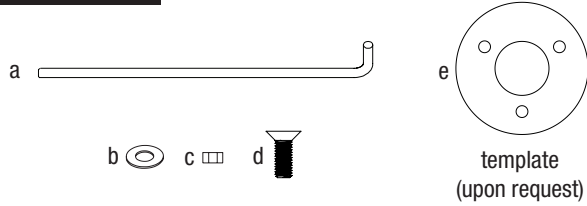


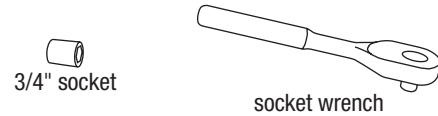
# HELIO™ BOLLARD

## SURFACE MOUNT WITH J-BOLTS INSTALLATION & WIRING INSTRUCTIONS

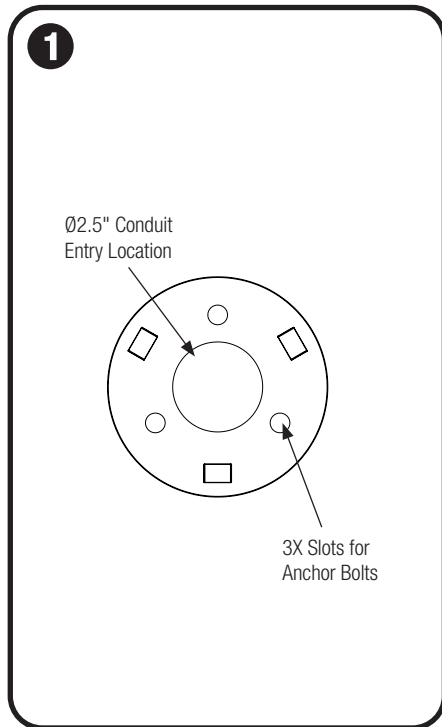
### MATERIALS INCLUDED



### TOOLS NEEDED



### STEP BY STEP FOR ALL SURFACE MOUNT HELIO BOLLARDS

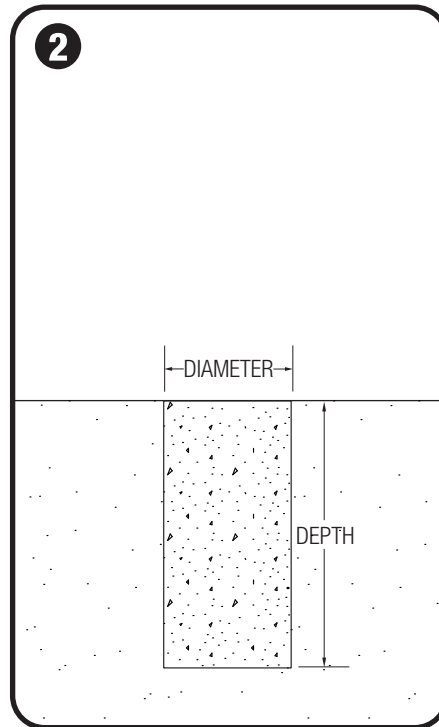


#### Prepare the incoming power

- Before pouring concrete footer, run properly sized conduit and cabling to each luminaire location according to local code requirements. Refer to figure above for dimensions for conduit entry envelope size and location on luminaire.

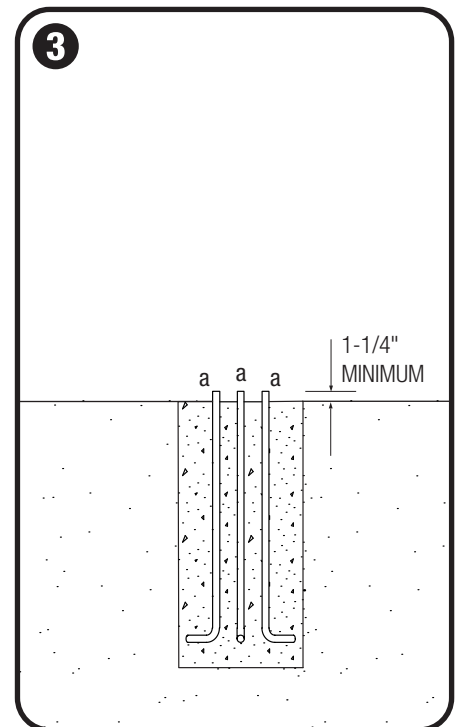
**Forms+Surfaces is not responsible for site preparation and footings.**

Note: Conduit should not protrude more than 2" above mounting surface.



#### Pour concrete footer

- Mix and pour concrete footer according to concrete manufacturer's instructions.
- A sufficient footer size depends on frost and other conditions to be determined by the installer.
- A minimum of a 13" diameter x 20" deep footer is recommended.



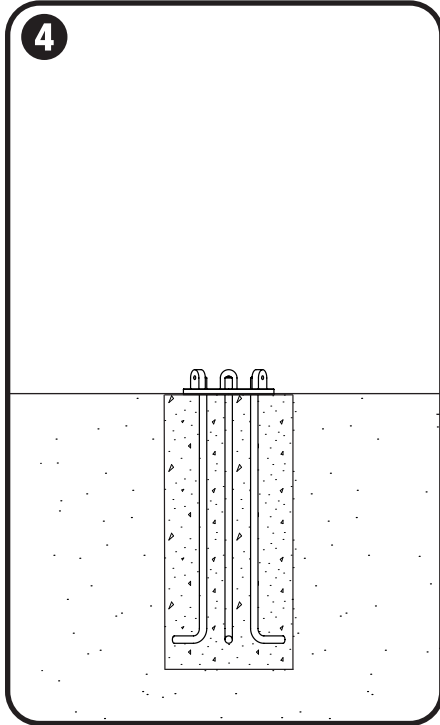
#### Insert J-bolt anchors

- Insert 1/2"-13 x 18" galvanized steel J-bolt anchors (a) into concrete.
- Use template to position J-bolt anchors in proper locations. Tops of J-bolt anchors must be a minimum of 1-1/4" above concrete surface.
- Allow concrete to set completely, in accordance with concrete manufacturer's instructions, before moving to step 3.

# HELIO™ BOLLARD

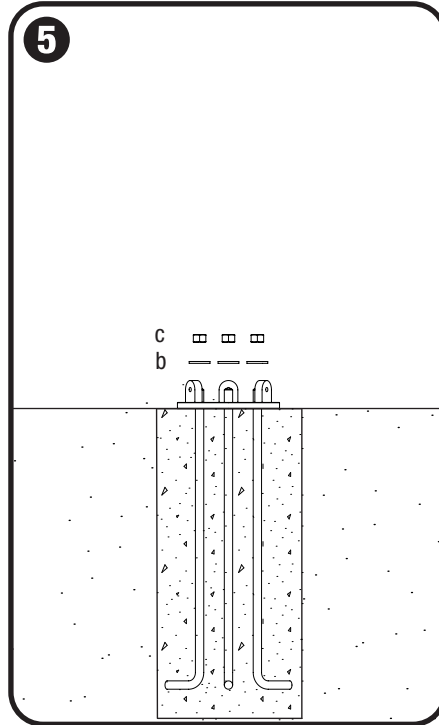
## SURFACE MOUNT WITH J-BOLTS INSTALLATION & WIRING INSTRUCTIONS

### STEP BY STEP FOR ALL SURFACE MOUNT HELIO BOLLARDS



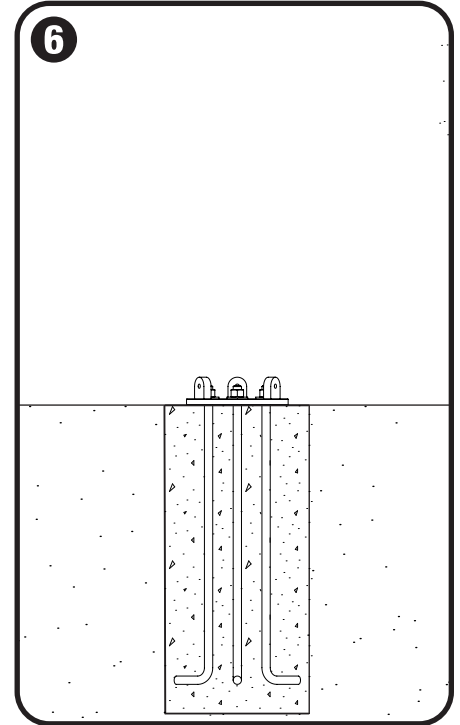
#### Slide base onto J-bolt anchors

- Slide base base plate over J-bolt anchors and lower base to concrete level.



#### Attach base

- Slide 1/2" washer (b), then thread 1/2"-13 nut (c) onto each J-bolt anchor.



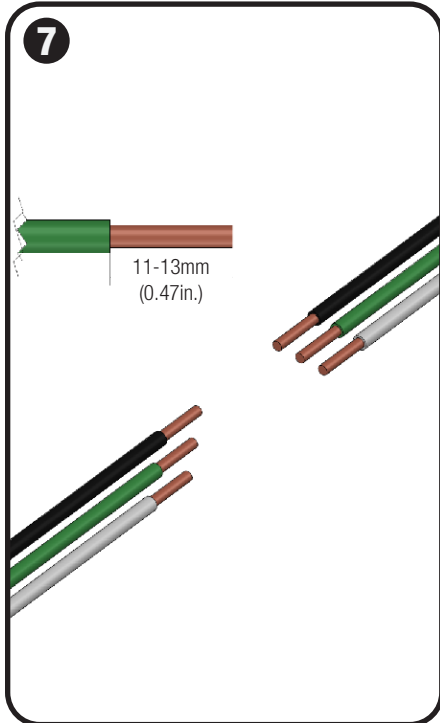
#### Tighten nuts

- Use 3/4" socket and socket wrench to tighten all nuts until snug.

# HELIO™ BOLLARD

## SURFACE MOUNT WITH J-BOLTS INSTALLATION & WIRING INSTRUCTIONS

### STEP BY STEP FOR ALL SURFACE MOUNT HELIO BOLLARDS



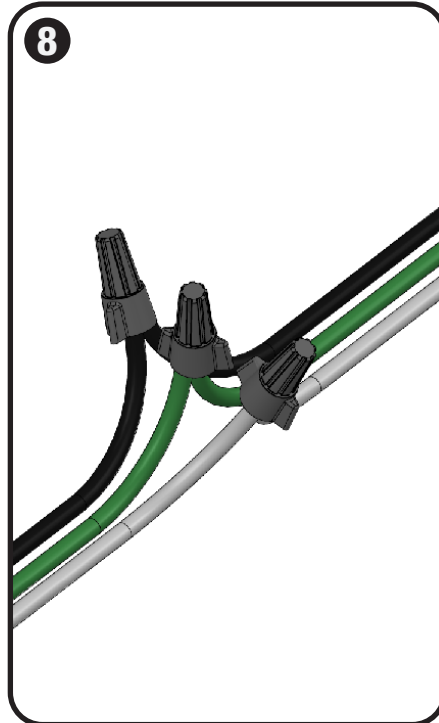
#### Locate and prepare wires

Note: Installation should be performed only by qualified individuals.

- Before proceeding with wiring of luminary, check to ensure that all applicable site wiring and safety codes have been followed.
- Locate wires at base of light fixture.
- Ensure power supply is shut off and circuit being used is isolated.
- Prepare wiring from site junction box and bollard by stripping and removing 11-13mm (.47") of insulation.

Note: Wire used should be 22-14 AWG copper conductors.

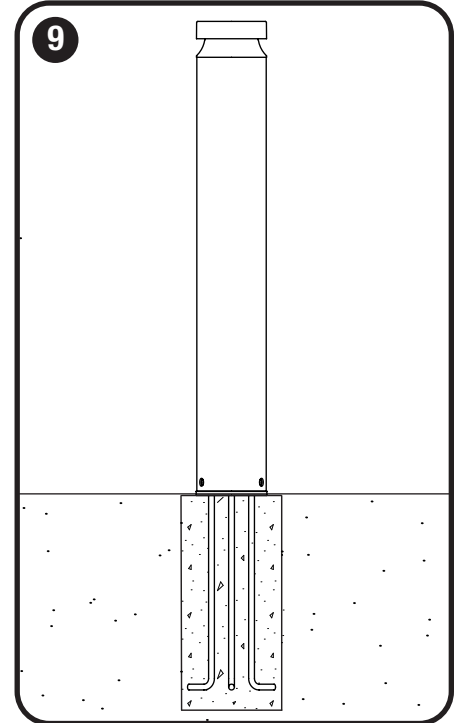
Caution: Installation of a surge protector as part of each unit's wiring is recommended.



#### Connect wires

- Insert ground (green), neutral (white), and positive (black) wires into provided wire nuts, being sure to match wire color codes from junction box to bollard.
- Tighten wire nuts until exposed wire ends are below bottom of wire nut.
- Inspect all wiring and connections before.

Caution: Light fixture rated for 120-277 VAC power.



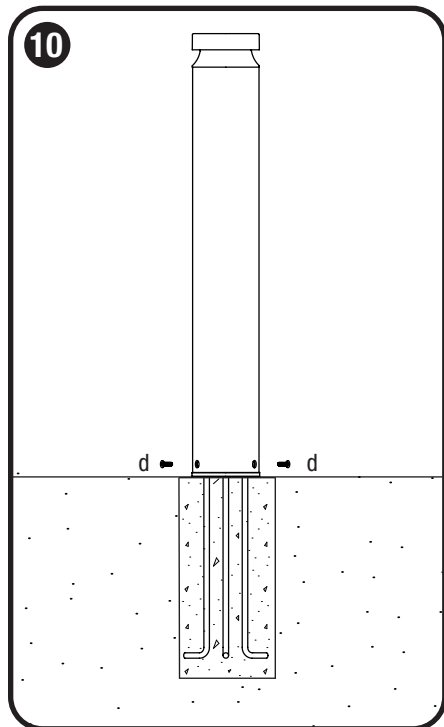
#### Place bollard

- Slide bollard over base plate, lower and align mounting holes.

# HELIO™ BOLLARD

## SURFACE MOUNT WITH J-BOLTS INSTALLATION & WIRING INSTRUCTIONS

### STEP BY STEP FOR ALL SURFACE MOUNT HELIO BOLLARDS



#### Attach bollard to base plate

- Thread 5/16"-18x1" tamper-resistant flat head screws (d) into each hole.
- Use provided T40 Torx bit for tamper-resistant screws to tighten all screws until snug.