



# EV CHARGING STATION FOUNDATION FOR CONCRETE APPLICATIONS

## INSTALLATION INSTRUCTIONS



### IMPORTANT SAFETY INFORMATION

**READ AND COMPLETELY UNDERSTAND ALL INSTRUCTIONS BEFORE INSTALLING PRODUCT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.**

This product is intended for use by trained technicians only. This product should not be used by anyone who is not familiar with and not trained to use it. When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact. Be sure to wear proper safety equipment per your company protocol. These instructions are not intended to supersede any company construction or safety standards. These instructions are offered only to illustrate safe installation for the individual. PLP products are intended for the specified application only. Do not modify this product under any circumstances. Do not reuse or reinstall any PLP product unless that capability is expressly indicated in the product's Installation Instructions. For proper performance and personal safety, be sure to select the proper PLP product before installation. PLP products are precision devices. To ensure proper performance, they should be stored in cartons under cover and handled carefully.

### PACKAGE COMPONENTS



1. Foundation Base
2. Lid
3. Lid Bolts (4) (Not Pictured)

### Tools Required:

- Back hoe or shovel(s)
- M10 Allen Wrench
- Assorted drill bits
- Metal cutting hole saw with arbor for conduit pass through

## ⚠ WARNING

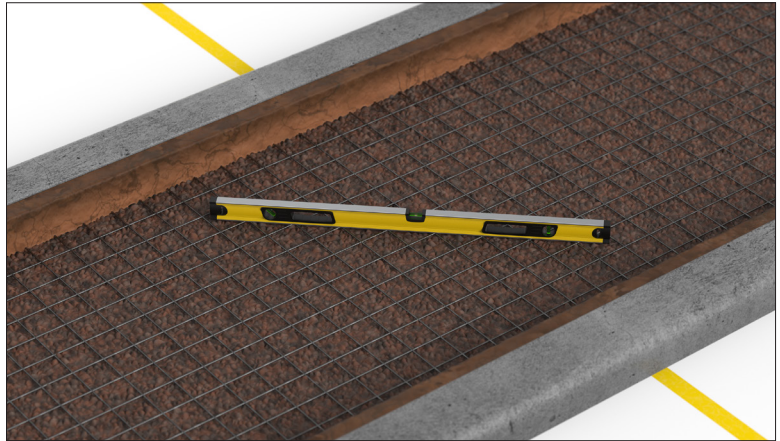
1. Always check with local codes to ensure compliance. You may need to adjust the guidelines provided here to comply with local regulations.
2. **ALWAYS CALL BEFORE YOU DIG:** 811 is the number used most in the U.S.
3. Use only qualified technicians for the task at hand. Improper installation can lead to equipment damage, injury, or even death of persons involved.
4. Follow all instructions for the charger unit being installed.

## PREPARATION

- 1 Prepare the site with substrate dug out. Lay out any concrete reinforcing materials and/or aggregate and check for a level surface.

All conduit should be run prior to this step.

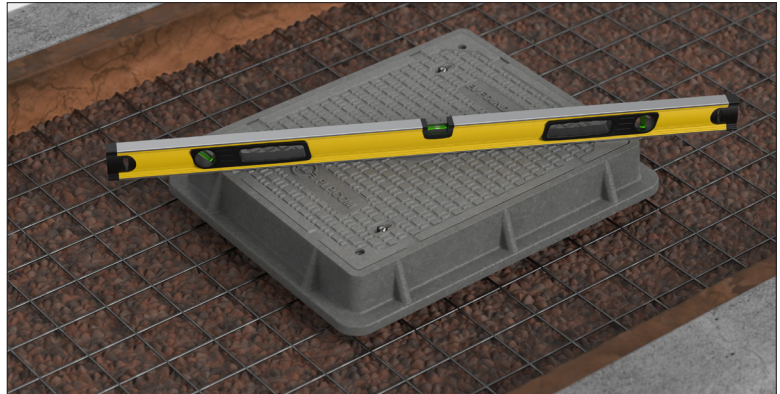
**NOTE:** Verify the dig depth is a minimum of 4" so that the foundation cover sits flush with concrete surface.



- 2 Using the supplied lifting hooks, lay the foundation at the desired location, over the electrical conduit. Once the foundation is positioned, check that it is level.

### CAUTION

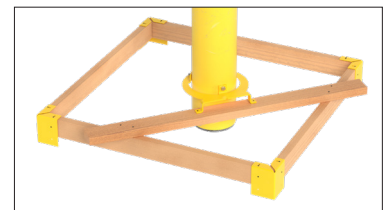
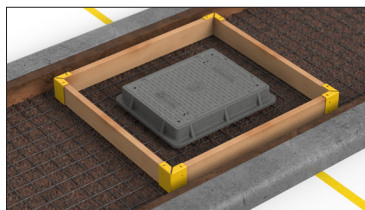
This is a two person activity. Using the supplied lifting hooks, each person should be positioned at the ends of the foundation and lift in unison.



- 3 Lay out the concrete forms to prep for pouring concrete.

For the best experience, use PLP concrete pad form (**Part Number: EVSE-90DEG-FORM**). If using the PLP forms, the installation instructions can be found on our website at [ev.plp.com](http://ev.plp.com).

If concrete bollards are desired for installation, they can be positioned in this step. For the best experience, use PLP bollard mount (**Part Number: EVSE-BOLLARD-MOUNT**). If using the PLP mount, the installation instructions can be found on our website at [ev.plp.com](http://ev.plp.com).



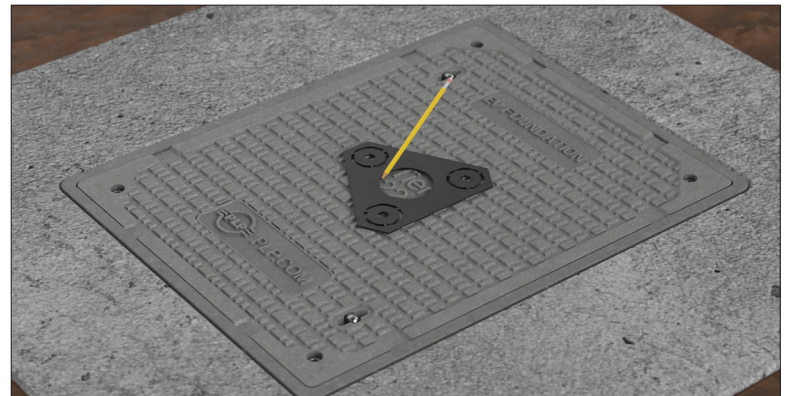
- 4 Allow the concrete to cure to the manufacturer's specifications and remove the concrete forms.

**NOTE:** If using PLP concrete pad form, do not discard. This kit is reusable for your next project.



## CHARGER MOUNTING

- 5 Lay out the new template marking hole locations needed. Drill into the foundation cover.



Use the charger's template to determine drill hole pattern. The ChargePoint CT4000 template is shown in the image above.

- 6 Drill into the center of the cover for the conduit run. Oversize the hole by 1/8" (3 mm) for proper clearance for bushing or wire clamp.
- NOTE:** Starting with a smaller drill bit and working up makes for a quicker and cleaner job.

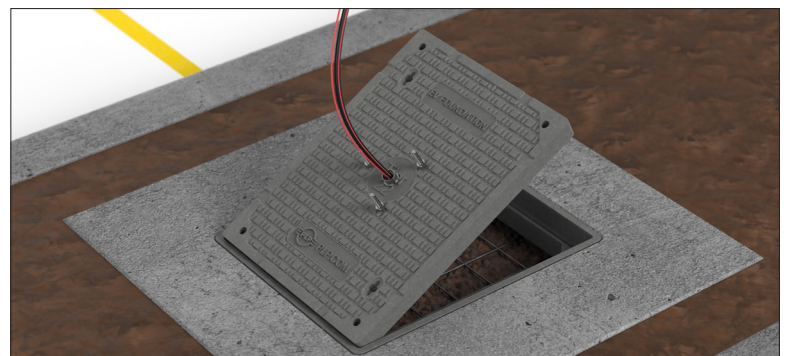


- 7 Using a M10 Allen Wrench, loosen the bolts in the corners of the lid. Next, use the supplied lifting hooks to lift the lid off the foundation.

Attach the mounting bracket or plate for the charger/charger stand.

### CAUTION

This is a two person activity. Using the supplied lifting hooks, each person should be positioned at the ends of the foundation and lift in unison.





- 8 After ensuring that no burrs or sharp edges are present, route cable through the large center hole. Extending the conduit up through the hole in the plate or routing just the wire will be a project decision based on the type of charger, mounting pole, and applicable codes.

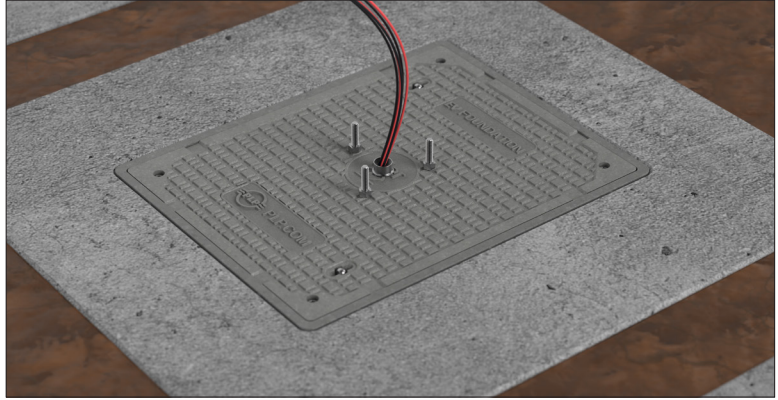
**NOTE:** Using a bushing or wire clamp will help protect the wire during routing. PLP highly recommends protecting the wire at any potential contact or rub points.

Before reattaching the foundation cover, make sure that the foundation rim is clear of any gravel/ concrete pieces that might make the adapter cover unstable after installation.

Use the supplied lifting hooks to lower the lid back into place. Use a M10 Allen Wrench to fasten the lid hardware. Tighten to 25 ft-lb.

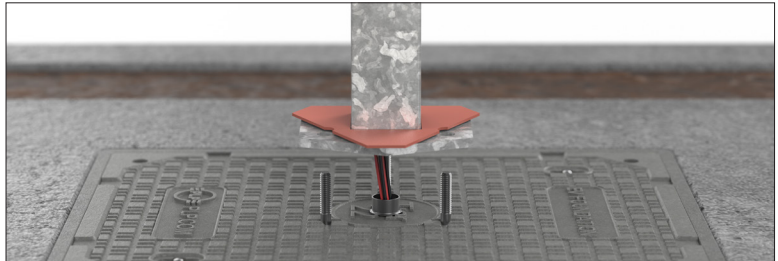
#### CAUTION

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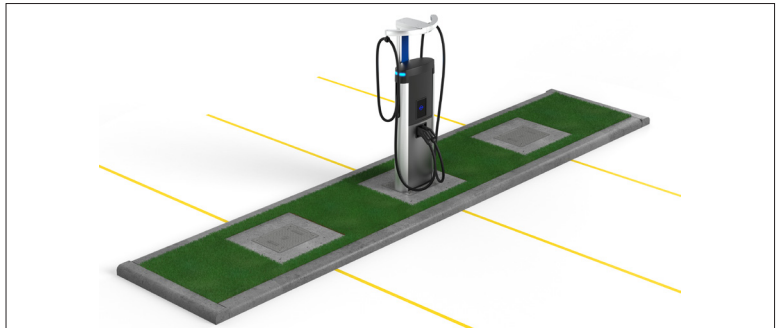


- 9 Attach the charger adapter cover with the bolts that have been installed in the foundation lid. If the foundation lid bolts align with your charger's mounting bracket, the bolts may also be used to attach the charger. PLP recommends you switch to a hex bolt or a flange bolt for this purpose.

The maximum torque on the bolts is 25 ft-lb.



- 10 At this point, follow the installation instructions for the charger that you have chosen.



Completed foundation installation, with an attached charger