# CrashCore<sup>™</sup> Bollard

# **Crash-Rated Bollard Installation Instructions**



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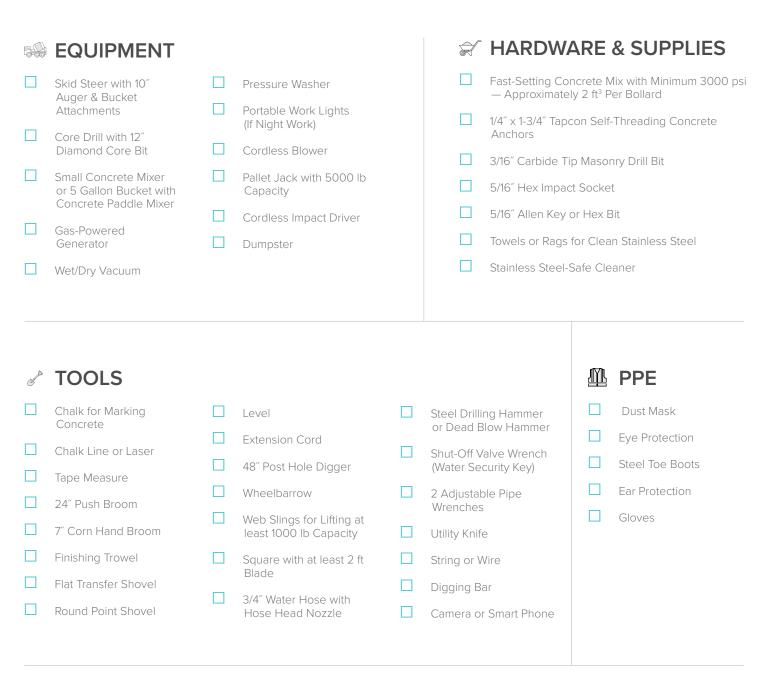
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# **Suggested Tool List**

Below you will find the suggested tools for a deep cage CrashCore Bollard installation



## ▲ OH SH!T LIST

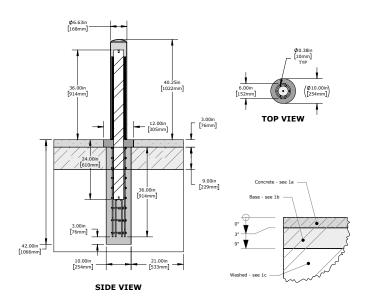
Cones	Steel Tamper		3/8″ or #3 x 36″ Rod or Rebar	Tarp
Cation Tape	Jack Hammer		Masking Tape	
Metal Barricade	1/2″ - 13 Tap			

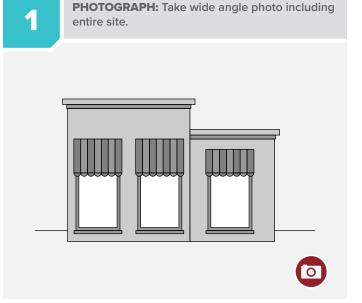
### **GROUND CONDITIONS PER ASTM F3016**

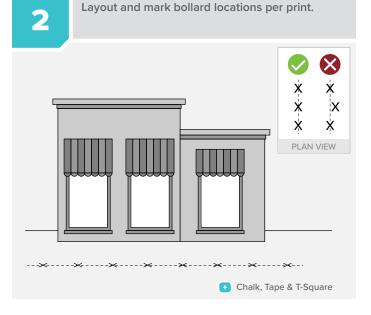
**1a:** The concrete is 3000 psi minimum unconfined compressive strength, with one layer of #3 ( $\emptyset$ 3/8") rebar spaced at 12" each way, with 1-1/4" cover at bottom. Rebar not shown here.

**1b:** The base is Type A Grade 1 crushed limestone road base, compacted to 90% of standard proctor density.

□ **1c:** The washed sand shall be classified as SP - poorly graded sand & be compacted to a density of not less than 90% maximum dry density in accordance with AASHTO Method of Test T099.

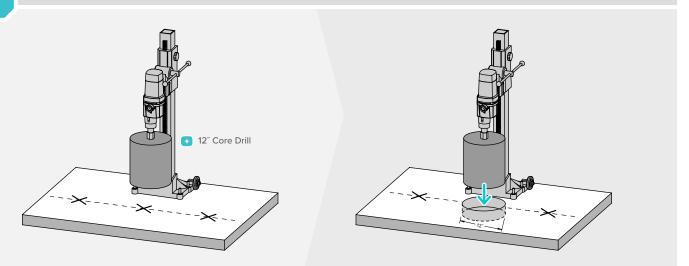




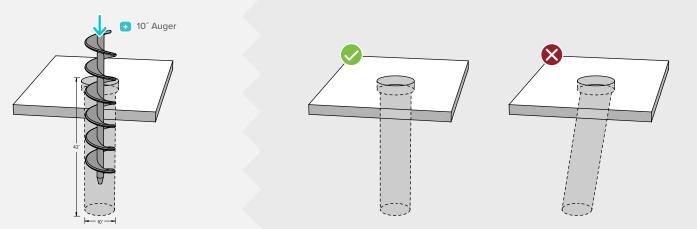


3

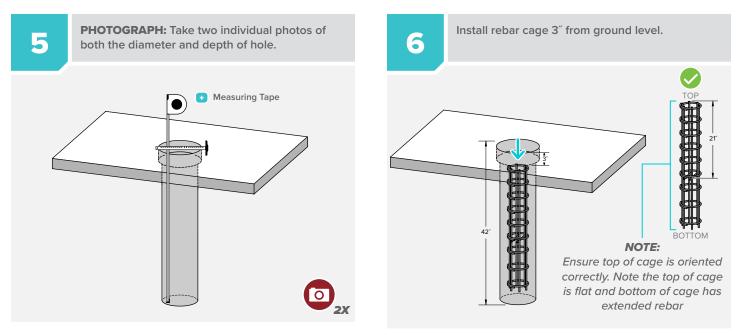
Use the  $12^{\sim}$  core drill to drill through concrete. Keep it clean — use the wet vac to make sure concrete slurry doesn't stain the sidewalk or enter drains.

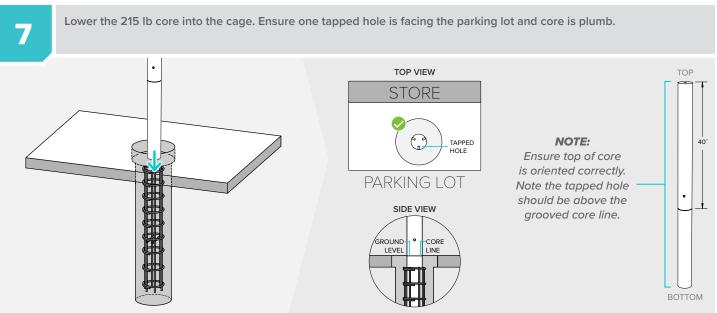


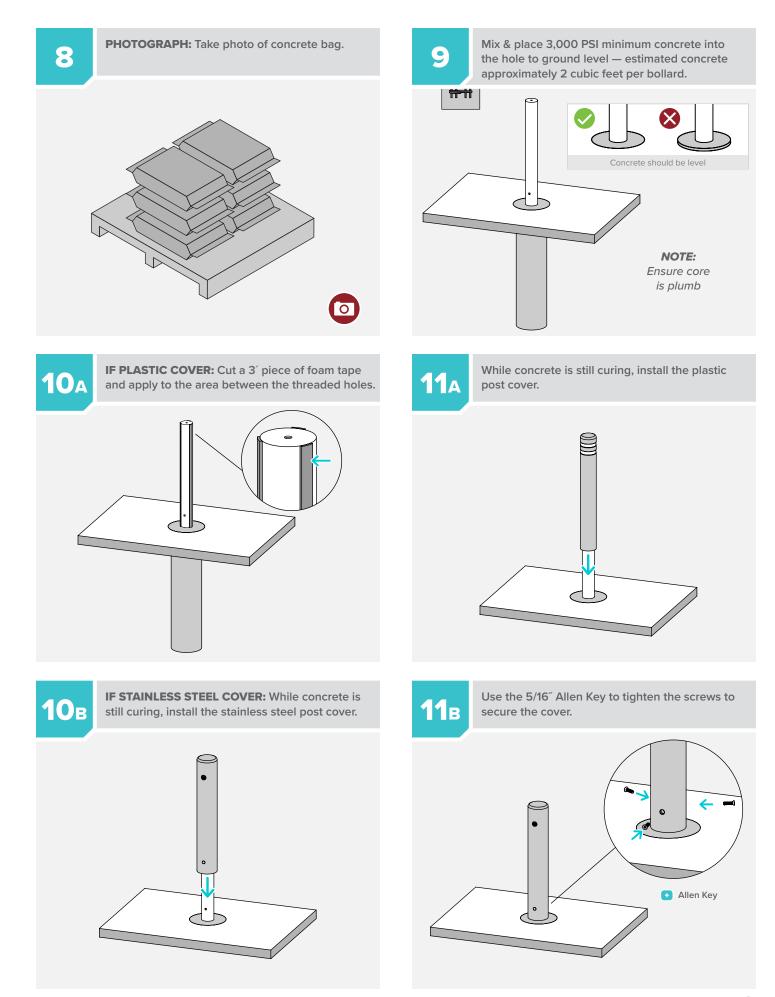
4

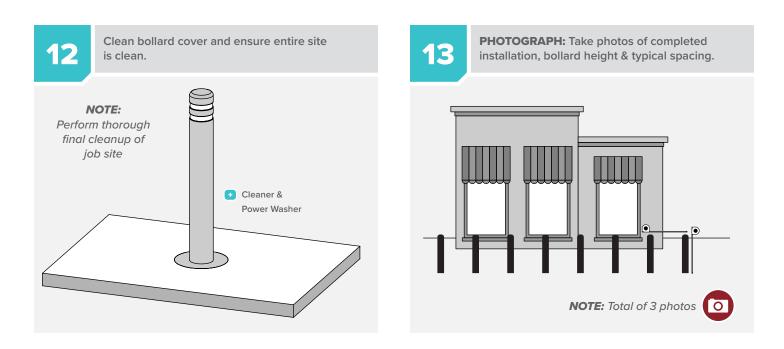


NOTE: Ensure hole is drilled straight and not at an angle









# **Installation Checklist**

## Ensure all items are complete before finishing installation

### MEASUREMENT CHECK

10" Diameter hole

Cage is 3" from ground level

42" Deep hole

### CORE ALIGNMENT

- Center the core in the hole
  - Core is plumb
  - Check the overall height of the bollard from ground level using a tape measure and the line on the core

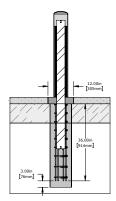
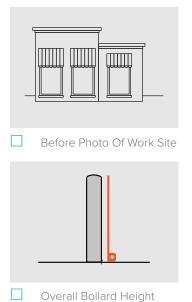
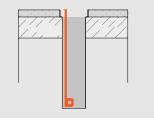
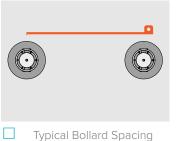


PHOTO CHECK: Ensure to document the completion of each specified step that included a photo icon as shown below





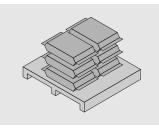
42″ Deep Hole





10″ Diameter Hole





Concrete Bag



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