



Bradford MPool Installation Instructions

Installation Requirements & General Notes

- Installation of the MPool must be performed by a qualified contractor or pool professional.
- Truck access to the installation site and adequate clearance for hoisting must be confirmed prior to shipment of the MPool.
- A licensed plumber is required to make all plumbing connections.
- A licensed electrician is required to make all electrical connections.
- A licensed rigging contractor is required for all craning, rigging and hoisting operations.
- Salt chlorine generators or any other salt systems **MUST NOT** be used with the MPool. Use of salt systems will void MPool warranty.
- Bradford is not responsible for any geotechnical factors that may effect the installation or operation of the MPool.

Site Preparation

Excavation

- The length and width of the pit must be excavated with an additional 24" beyond all 4 sides of the outside dimensions of the MPool.
- The depth of the pit will vary slightly depending upon the dimensions of the finished decking system that is to be installed. The top lip of the pool will be approximately 5' 5-3/16" from the bottom of the pit (including the support pad) when properly installed.
- The pit walls and floor must be firm and dry throughout the installation process.

Groundwater Inspection & Relief Port

- Once the pit dimensions have been verified and excavation is complete, dig a 12" x 12" trench laterally across the middle of the pit. (See Diagram #1)

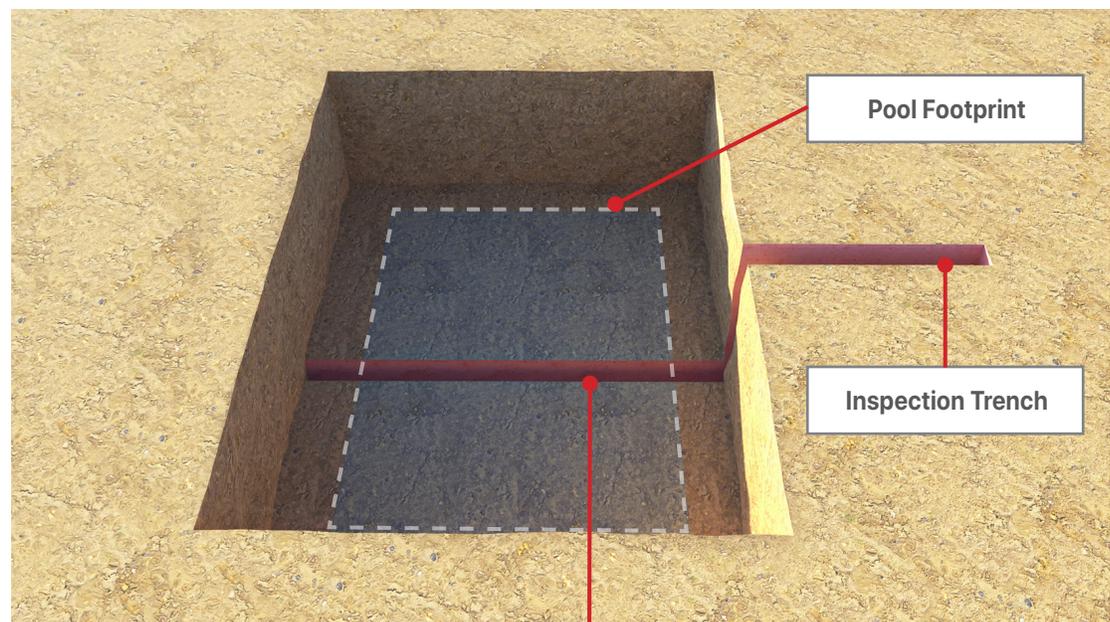


Diagram #1

Groundwater Inspection & Relief Port - (continued)

- Place 4" of $\frac{3}{4}$ " - 1 $\frac{1}{2}$ " washed drain rock along the bottom of the entire trench.
(See Diagram #2)
- Place a 4" perforated drainpipe covered in a pipe sock in the middle of the trench.
- Cap one end of the 4" pipe
- Terminate the other end of the 4" drainpipe into an 8" vertical PVC pipe at the end of the inspection trench.
- The inspection trench length is determined by the desired location of the 8" vertical inspection pipe. (See Diagram #3)
- Allow for at least an additional 6" of the vertical pipe to extend above the intended finished grade surface. The vertical pipe will be cut and covered with an access plate to be flush with the deck or ground surface once the decking is complete.
- Fill the remainder of the trench with $\frac{3}{4}$ " - 1 $\frac{1}{2}$ " washed drain rock, making it flush with the pit floor.

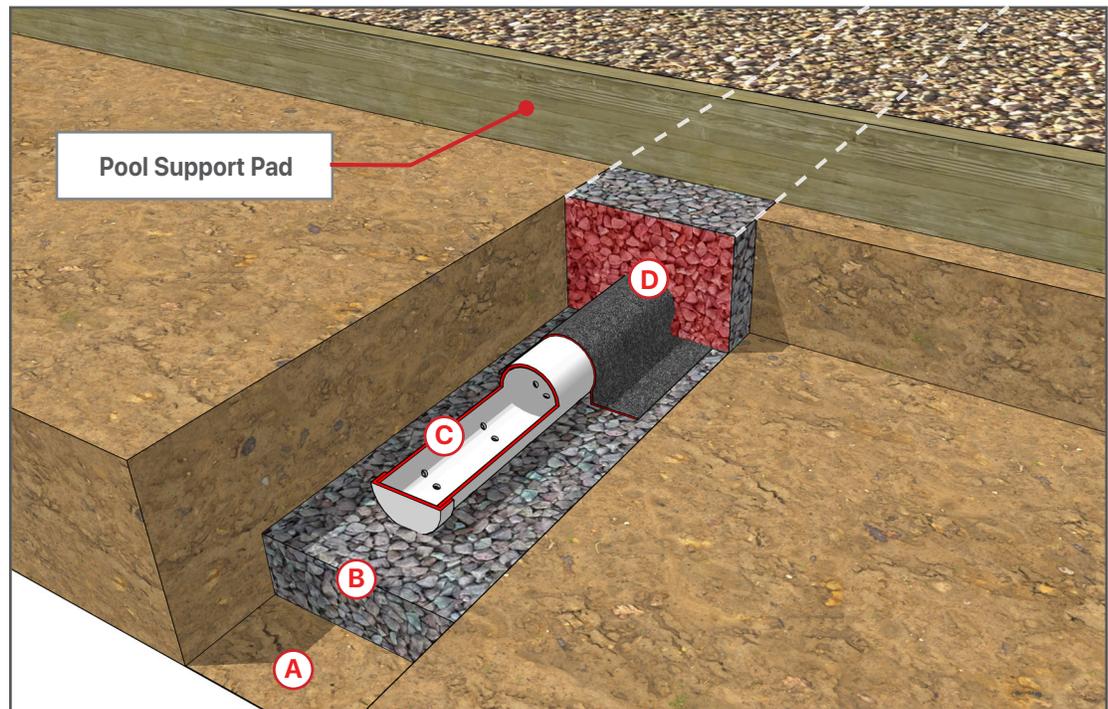


Diagram #2

- A** 12" x 12" trench dug laterally across the pit width, UNDERNEATH and PRIOR to the installation of the support pad and 2 x 6 forms.
- B** $\frac{3}{4}$ " - 1 $\frac{1}{2}$ " washed drain rock, inside the lateral trench.
- C** 4" perforated drain pipe, capped at one end, leads under the pool support pad to the 8" vertical pipe.
- D** Permeable sock material.

MPool Support Pad

- Verify the desired position of the MPool within the pit. Refer to CAD drawing layout.
- Build the frame of the support pad using pressure-treated 2x6's per the drawing ensuring that it is completely level.
- Fill the 2 x 6 frame with crushed rock (CSTC or CSBC) and compact thoroughly to complete the support pad.
- Check level across the entire support pad and adjust as necessary.

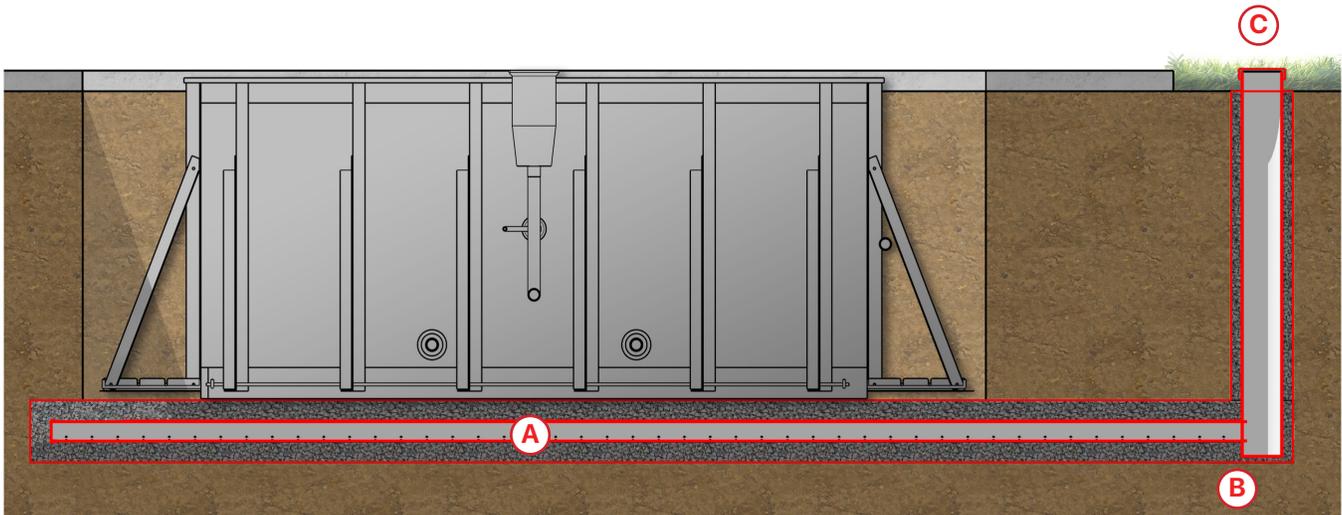


Diagram #3

- A** 4" perforated pipe, surrounded by 3/4"- 1 1/2" washed drain rock, extends laterally under the width of the pool
- B** 4" perforated pipe terminates into an 8" diameter inspection pipe.
- C** 8" vertical pipe and access plate, protrudes 6" above the grade in a suitable location.

Pool Installation

Hoisting & Rigging

- Four (4) lifting lugs are built into the MPool top lip for a 4-point lift.
- DO NOT REMOVE the shipping frame from the MPool until after the entire backfill process is complete.

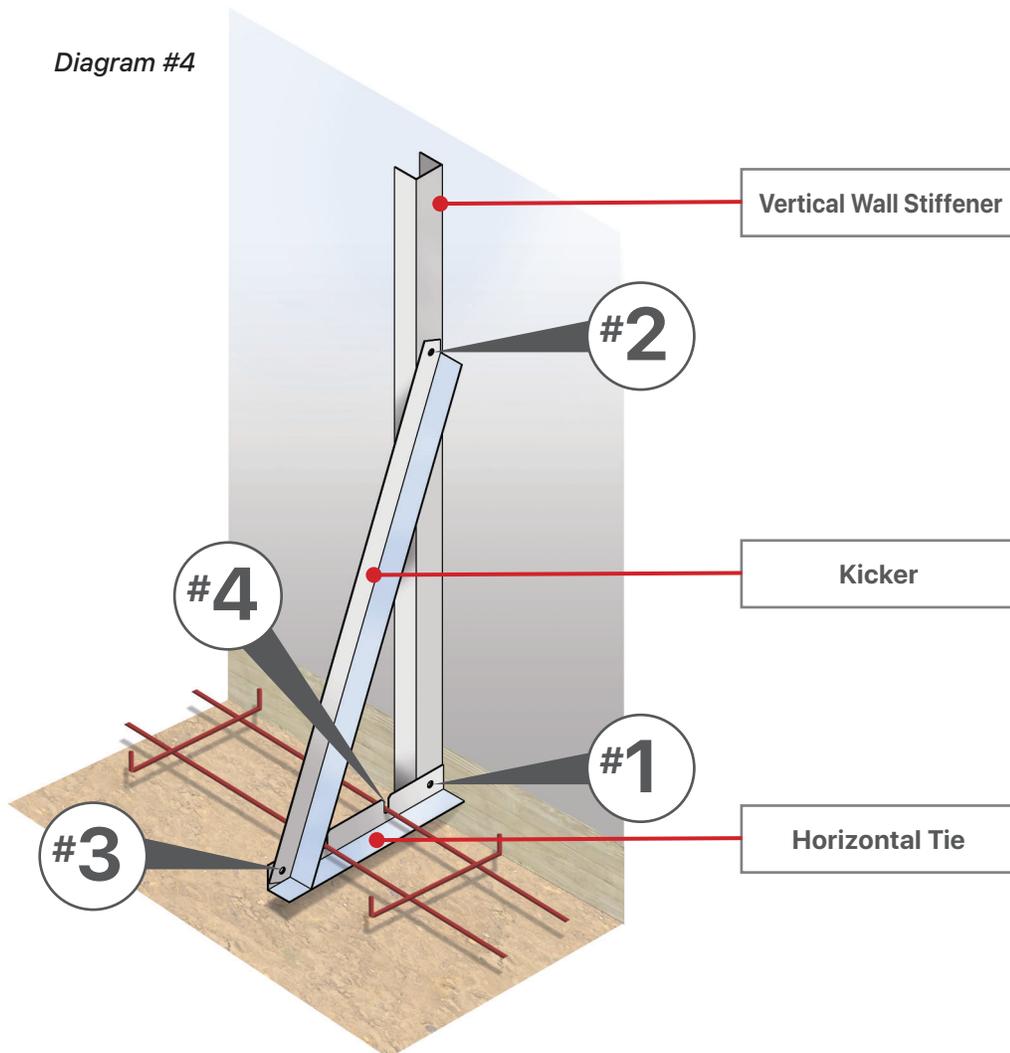
Locating & Leveling

- Once the MPool has been properly located on the base, check for level across all four sides.
- Adjust level if necessary by re-lifting the MPool then spreading and compacting the crushed rock within the support pad.
- The rigging can be disconnected once the location and level of the MPool has been verified.

Kicker Installation (See Diagram #4)

- **Step # 1** - Attach the bottom Horizontal Tie to the Vertical Wall Stiffener on the MPool ...hand-tighten the bolt.
- **Step # 2** - Attach the Kicker to the Vertical Wall Stiffener ...hand-tighten the bolt
- **Step #3** - Attach the Kicker to the Horizontal Tie...hand-tighten the bolt
- Tighten all 3 bolts with a wrench.
- **Step #4** - Install #4 rebar within the slots of the Horizontal Tie, per the CAD drawing.

Diagram #4



Complete Pool Installation & Hardscape Surrounds

- Pour a 6" min. thickness CONCRETE BOND BEAM per the CAD drawing to lock in the kicker assembly. Use 4,000 PSI minimum concrete.
- OPTIONAL: Place 6" schedule 20 PVC concrete form tubes, (vertically) into the wet bond beam at 4' intervals. These are filled later with concrete to support the deck system.
- Allow a minimum of 24 hours for the concrete to harden prior to backfill.
- Complete all plumbing and electrical connections. Run all pipes and conduits down to the concrete bond beam then out through the trenching to the mechanical equipment area. **DO NOT** tie off plumbing or electrical runs to the sides of the MPool.
- BACKFILL: Use only washed pea gravel that does not require compaction, allowing for clear flow of run-off or ground water.
- The areas underneath the stairs and optional bench seat or sun deck **must be completely** filled.
- Remove Shipping Frame from within the pool shell
- Fill MPool - **Use only iron-free potable water.**
- Finish pool hardscape - Coping or decking **must completely cover** the top lip of the MPool.

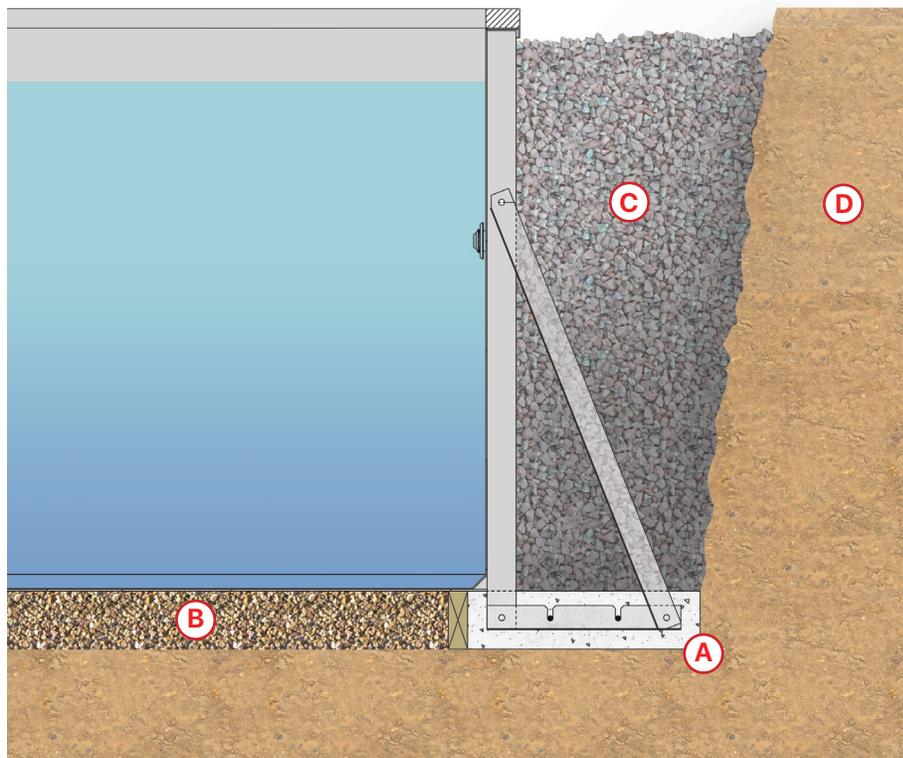


Diagram #5

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|---------------------------------------|--------------------------------------|
| A Concrete Bond Beam | B Crushed rock (CSTC or CSBC) |
| C Backfill - washed pea gravel | D Soil |

For further information and any questions, please contact Bradford directly.

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