

SMARTPOND ROTARY WEIR INSTALLATION GUIDE

The smartPOND rotary weir may be installed in a near-completely assembled configuration. There are two primary assemblies to the system:

1. Rotary weir and pedestal assembly
2. Electronics kit with solar panel and battery

TOOLS, EQUIPMENT, AND MATERIALS REQUIRED

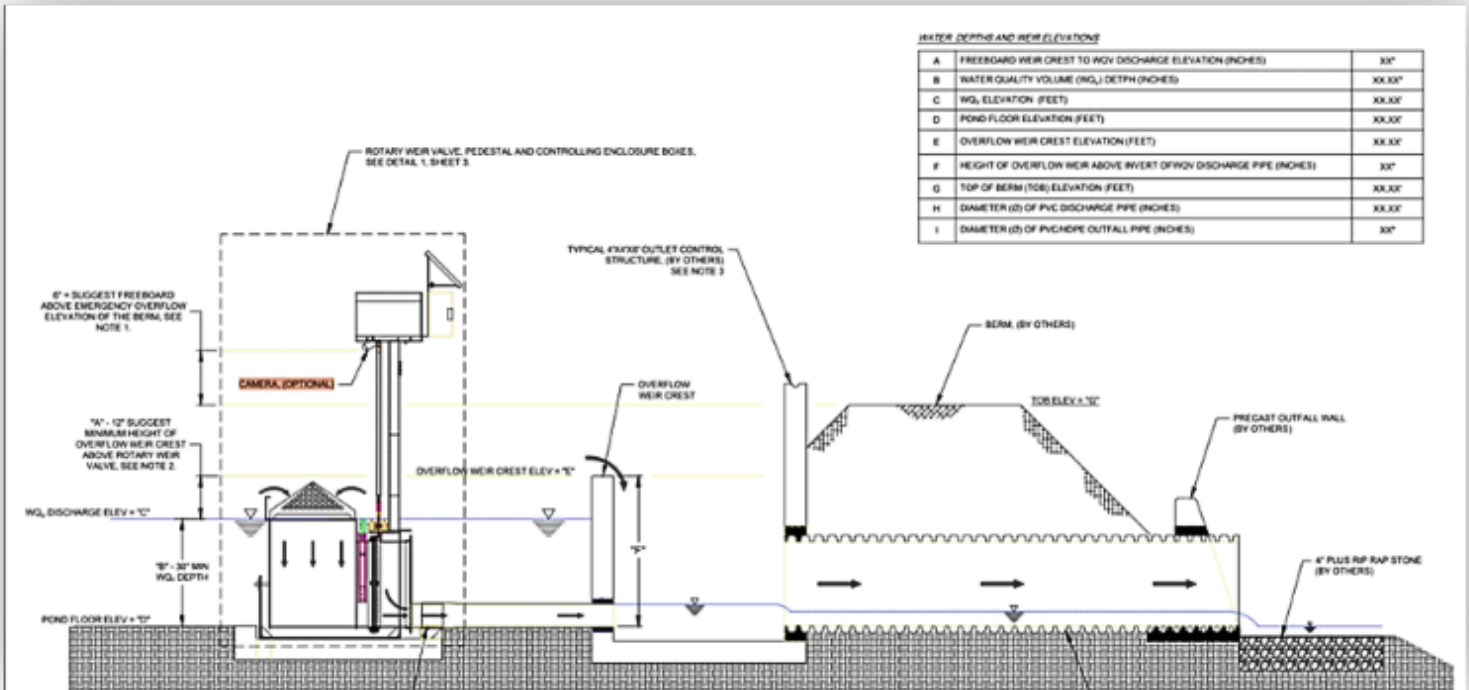
- Excavator or front-end loader equipment to carry the rotary weir assembly to the installation location
- Concrete hammer drill to set anchors in the base of the rotary weir
- Socket set
- Silt fence to protect from erosion during active construction
- Geotextile to stabilize disturbed soil areas

Note: this list does not include required tools and equipment to pour the required concrete pad and backfill the berm after assembly of the vault.





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INSTALLATION

1. Ensure that proper excavation and earth work is complete prior to installing the SmartPOND rotary weir
2. Surrounding soils should be stabilized or covered



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3. At the sump or desired drainage point, pour a concrete pad at grade or 1" below grade consistent with the provided concrete detail specification sheet. Note the direction of rotation of the rotary weir and ensure the size of the concrete pad accounts for the horizontal width of the device when rotated to the horizontal position. Also note the required vertical clearance between the invert of the drainage pipe and surface of the concrete pad. 3.5" of vertical clearance is required. More detail is provided in the concrete detail sheet.



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TIP: it is better to omit the curb on the opening-side of the rotary weir's concrete pad. It is also possible to omit all curbs and instead provide a flat concrete pad.

4. Using an excavator or other heavy equipment, carry the rotary weir into position and attach to the drainage pipe (connection details vary based on specified drainage pipe type)



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5. Use the provided 3/8" bolts in the welded nuts on the weir base to raise and level the rotary weir body as needed to align and level with the drainage pipe coupling.



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6. Use 3/8" concrete anchors to secure the four corners of the weir base to the pad
7. Ensure that the cabinet door is closed and locked upon completion of installation.
8. Wrap the base of the rotary weir with a silt fence if necessary to protect from erosion and accumulation of loose soils at the device. Remove the silt fence once vegetation is established in the surrounding areas.



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9. A manufacturer-certified technician may now be requested for activation of the device. The technician will furnish the electronics kit, battery, and solar panel to complete activation of the rotary weir and certify for warranty.



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