

TORO BLANCO GROUP

DESIGN DRIVEN CONNECTIVITY - SUBSURFACE VAULTING
2025



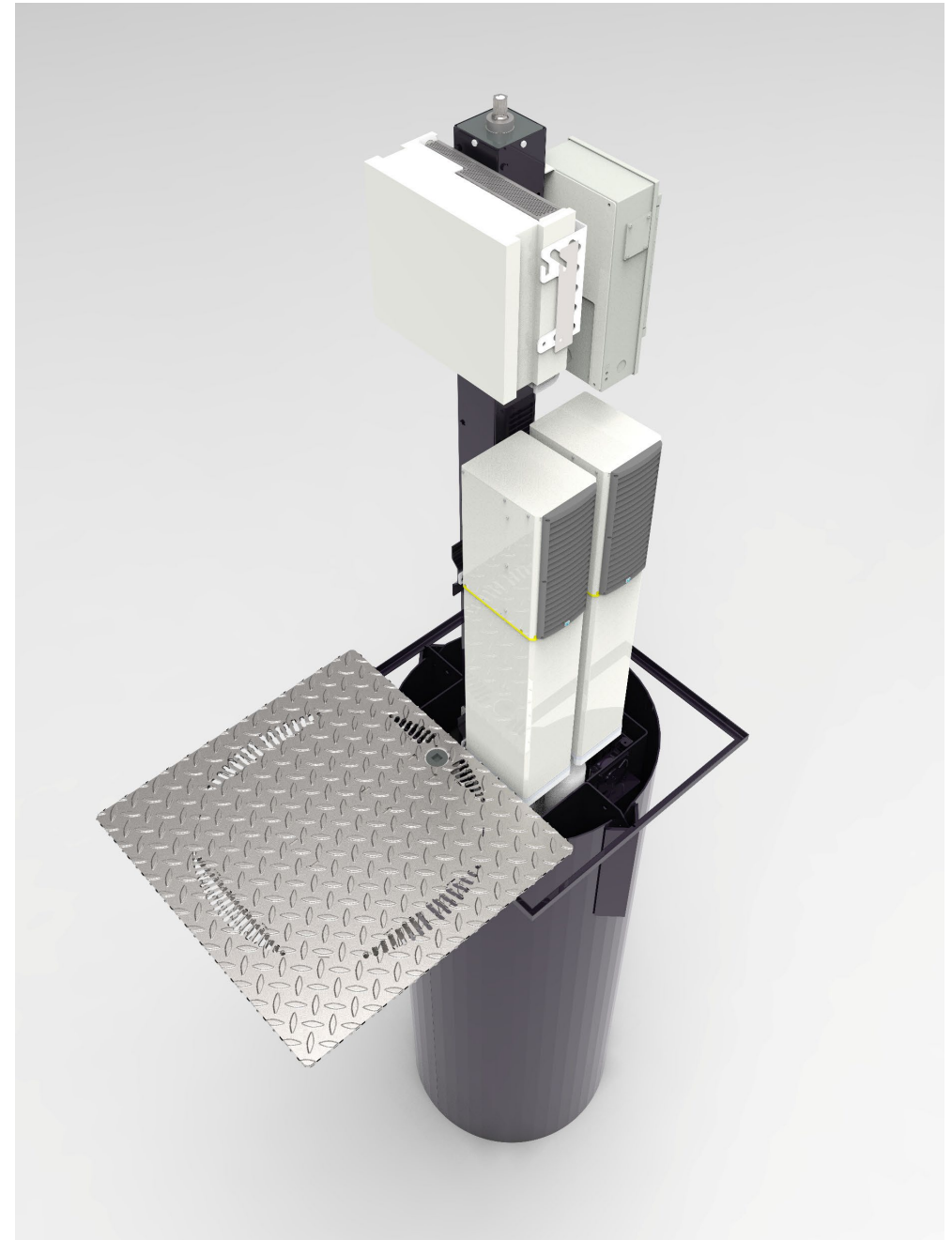
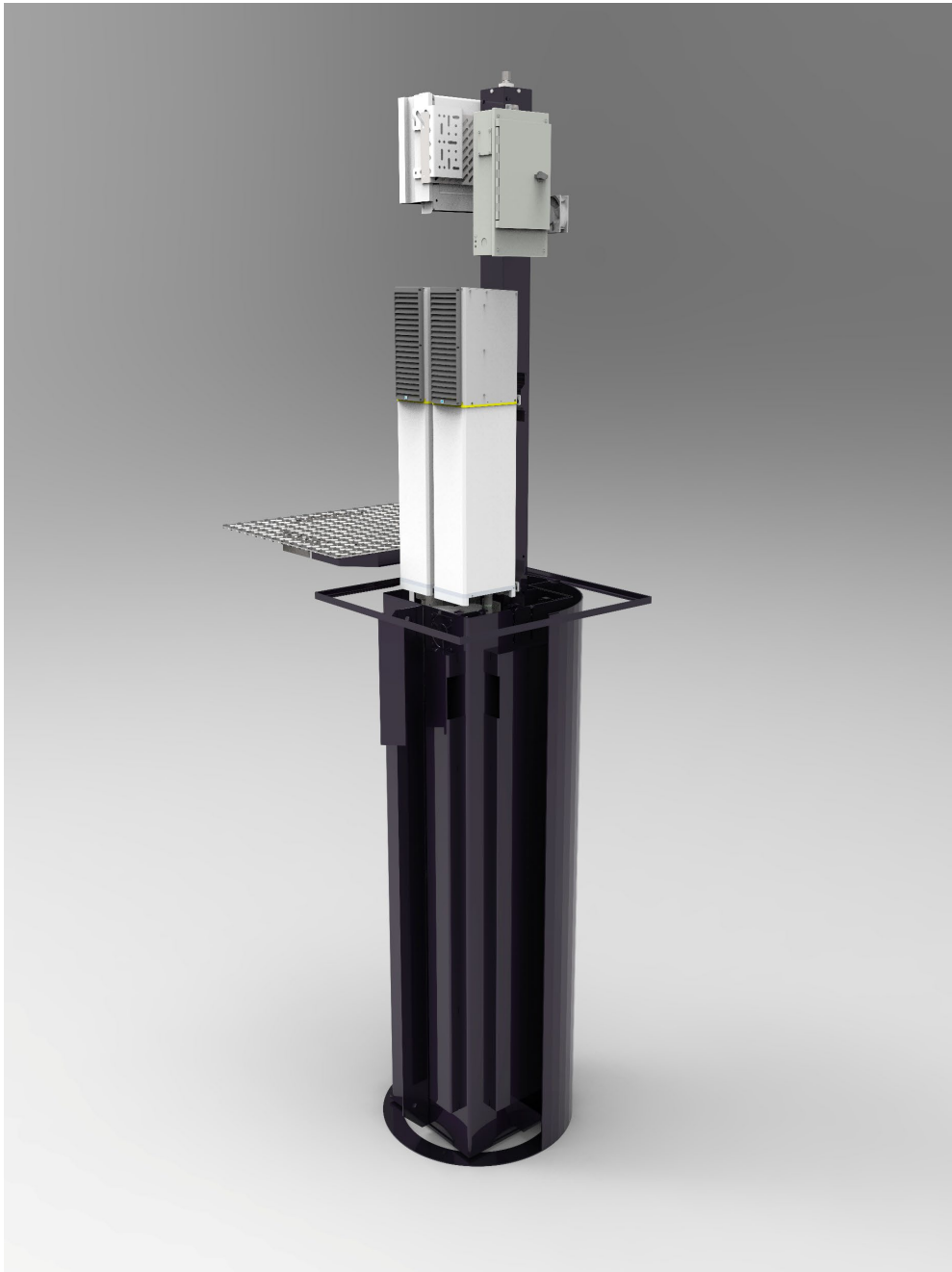
Cell Features

- Mechanical Column (no power necessary)
- Swivel Lid Design
- Geotechnical consideration drainage system
- Isolated exhaust and intake ventilation
- Cartridge solution for future upgrades and maintenance
- Eliminates confined space for GCs
- French drain (gutter) catch basin
- Industrial sump system
- Interchangeable center column design for future augmentation
- Casing for installation in loose soil conditions
- Single Carrier or Multicarrier diameters and depths
- Hot dipped galvanized steel
- AASHTO rated design for cost optimal sidewalk solution
- Modular mounted fans for different configurations



FULLY MECHANICAL EXTRACTION

FLUSH W/ GRADE
WHEN CLOSED





CLOSED
FLUSH W/ GRADE WHEN CLOSED



OPEN
FULLY MECHANICAL EXTRACTION



CLOSED
FLUSH W/ GRADE WHEN CLOSED



OPEN
FULLY MECHANICAL EXTRACTION

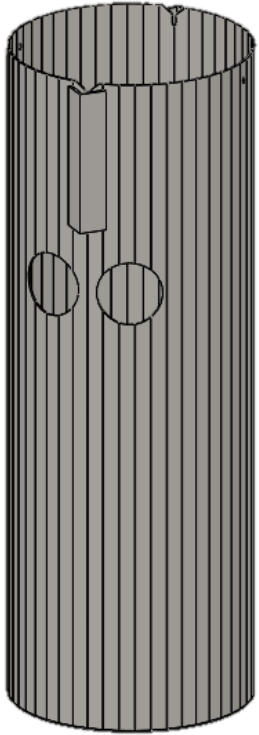


CLOSED
FLUSH W/ GRADE WHEN CLOSED



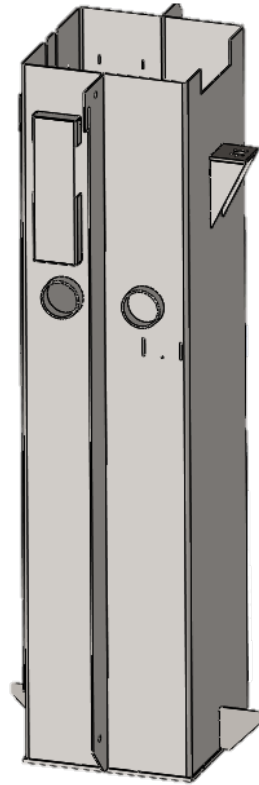
OPEN
FULLY MECHANICAL EXTRACTION

Components



CASING

Casing has receiving pockets to allow for multiple configurations of cartridges. Casing is a void to allow contractors to have excavation protection during installations.

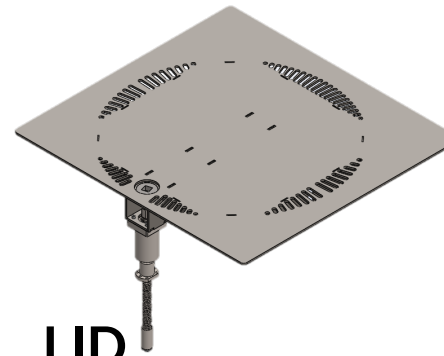


CARTRIDGE

Allows for a sealed square cabinet to house all equipment. Cartridges are interchangeable in the casings, making this a modular solution.

CABLE TRACK

Linkage design allows for coax or power cables to be organized so that the column can travel up and down with the equipment protecting cables from PIM and damage.



LID

Swivel lid allows for the equipment to breathe. Single point of access for secure system and minimize connections.



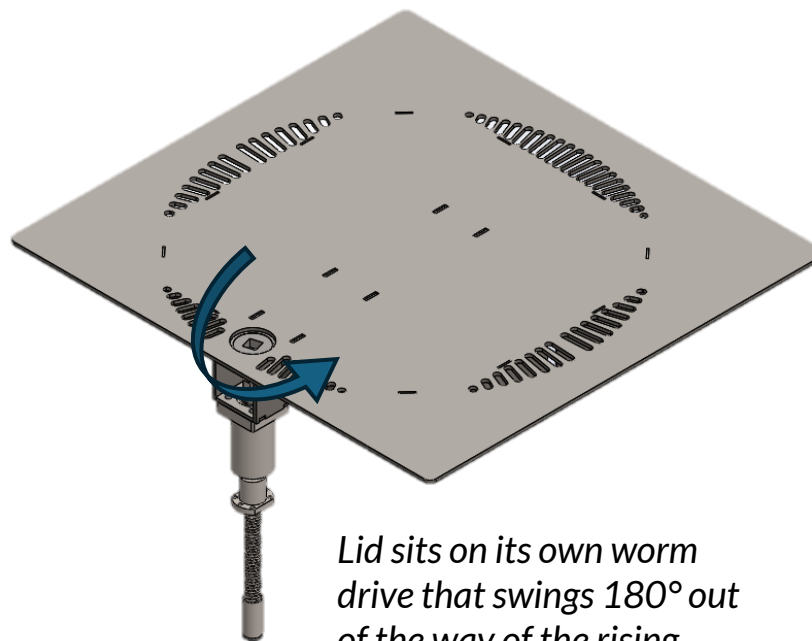
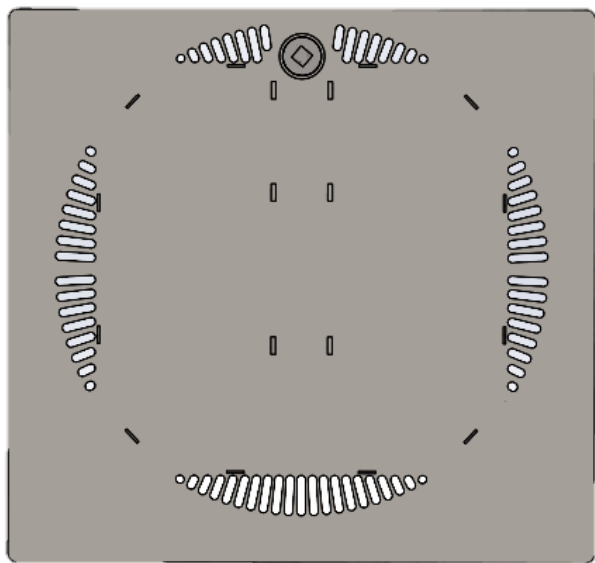
COLUMN

Rising column utilizes a fully mechanical system so that power is never needed to access the equipment. Column is configured to maximum equipment space by being offset in the cartridge.



Lid Features

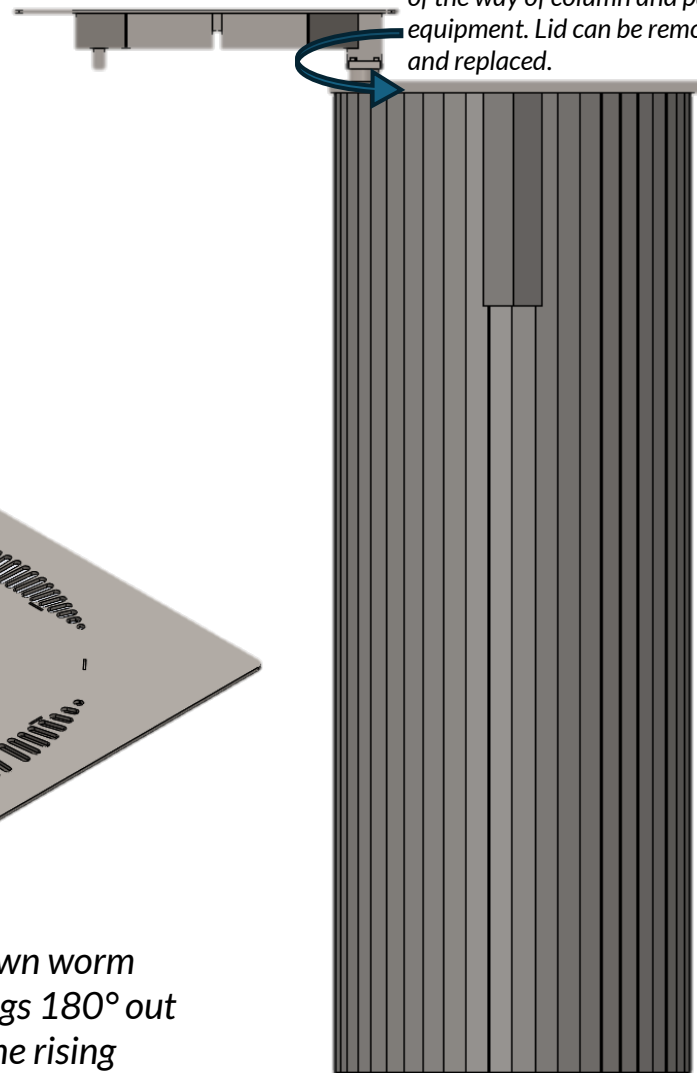
- Mechanical Secure Lid (no power necessary)
- Single connection point
- Swivel Lid Design
- Isolated exhaust and intake ventilation
- Hot dipped galvanized steel
- AASHTO rated design for cost optimal sidewalk solution
- Ability to be round like a sewer lid or square to match concrete layouts
- Treadplate for traction in sidewalk surfaces
- Strategic Vents allow heat out & fresh air in



Lid sits on its own worm drive that swings 180° out of the way of the rising column.

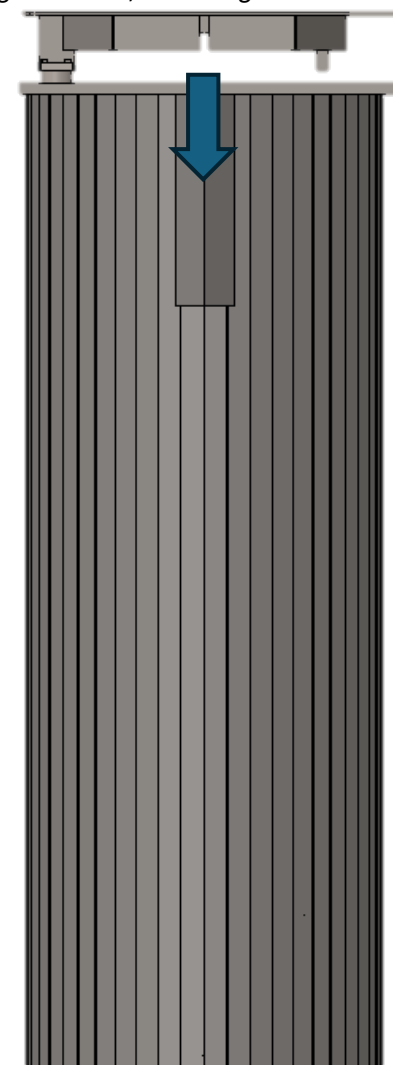
OPEN

Swivel 360 degrees to move out of the way of column and passing equipment. Lid can be removed and replaced.



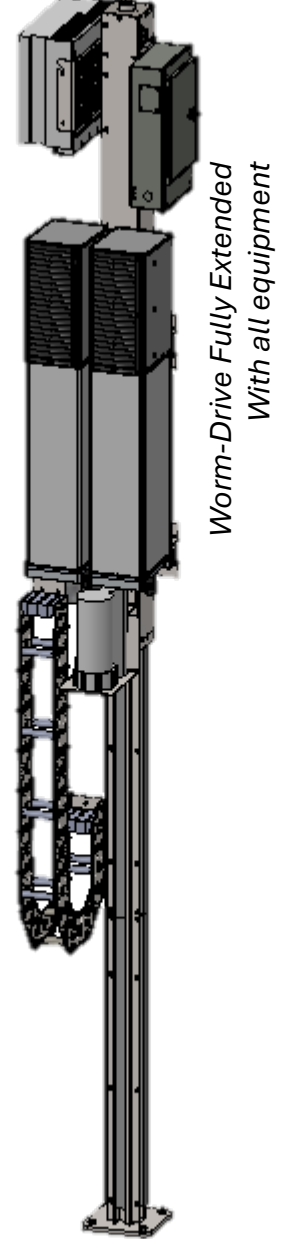
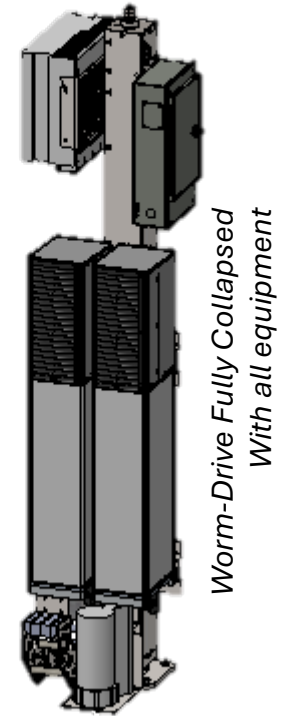
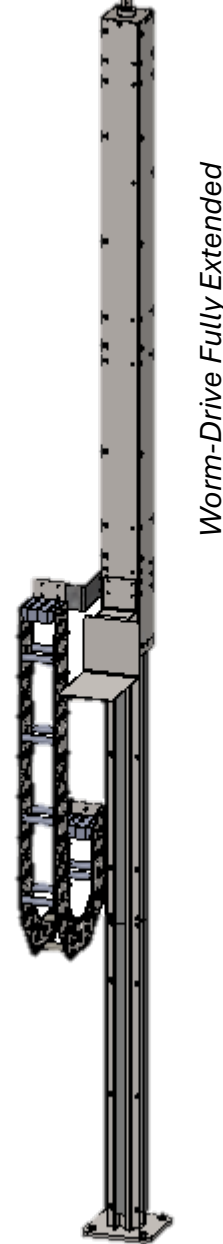
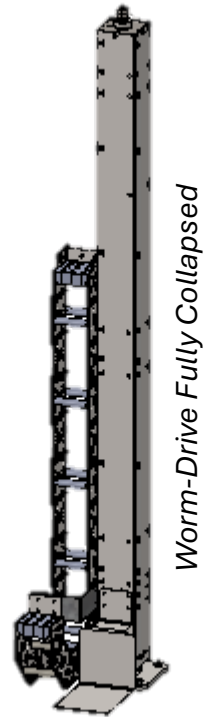
CLOSED

Lowrs down into position for secure fit to casing.



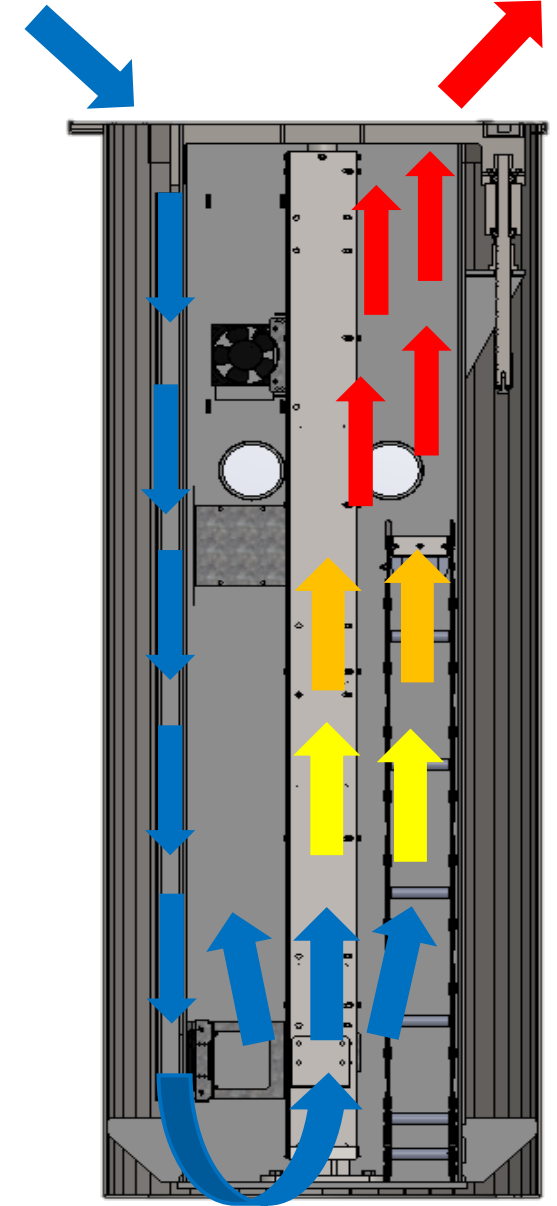
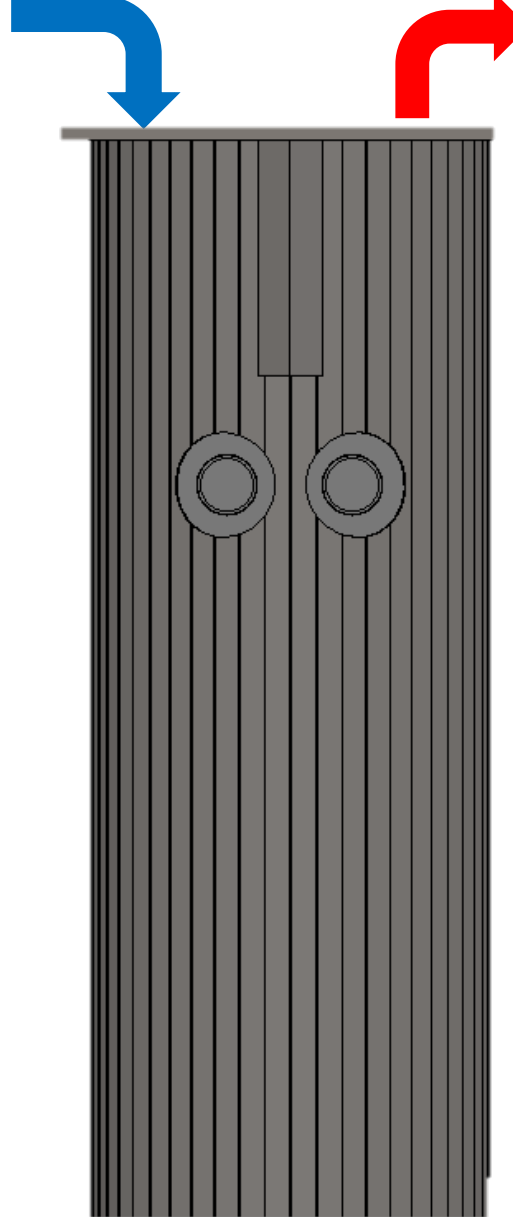
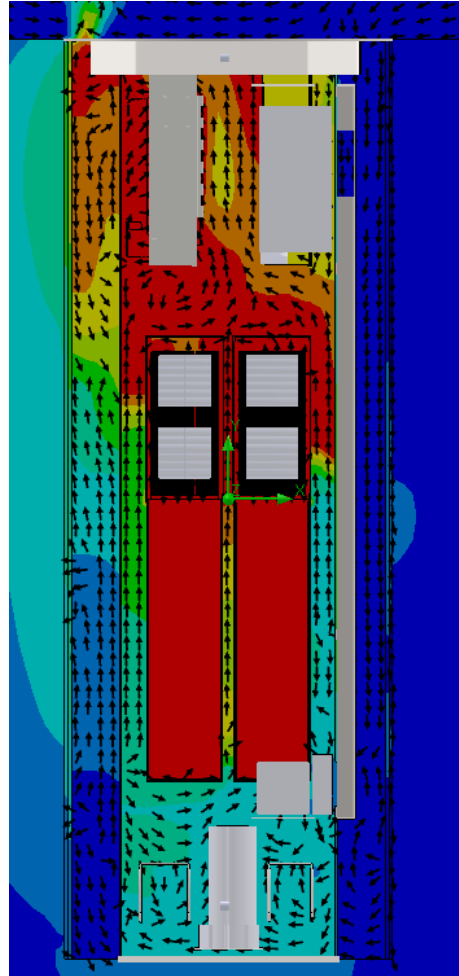
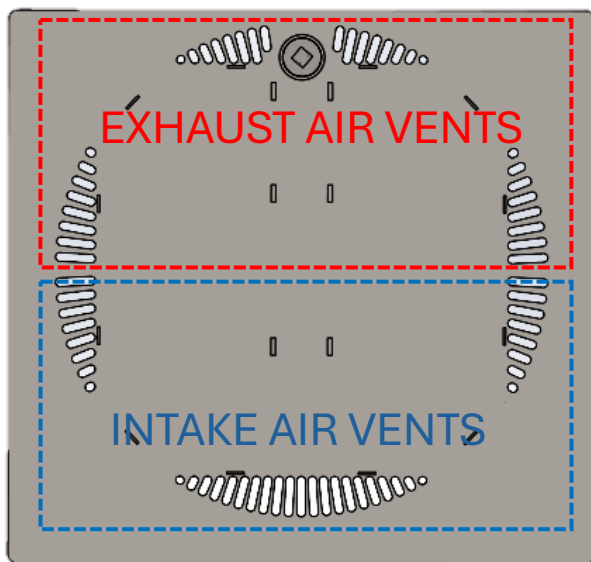
Column Features

- Mechanical Secure Lid (no power necessary)
- Column & Lid can be removed with a drill and a specific sized socket
- Single connection point
- Swivel Lid Design
- Isolated exhaust and intake ventilation
- Hot dipped galvanized steel
- AASHTO rated design for cost optimal sidewalk solution
- Ability to be round like a sewer lid or square to match concrete layouts
- Treadplate for traction in sidewalk surfaces
- Strategic Vents allow heat out & fresh air in



Thermal Management Features

- Isolated exhaust and intake ventilation
- Strategic Vents allow heat out & fresh air in
- Fan assisted air flow
- AC system/heat pump systems available based on equipment
- Thermal break between Intake and Exhaust



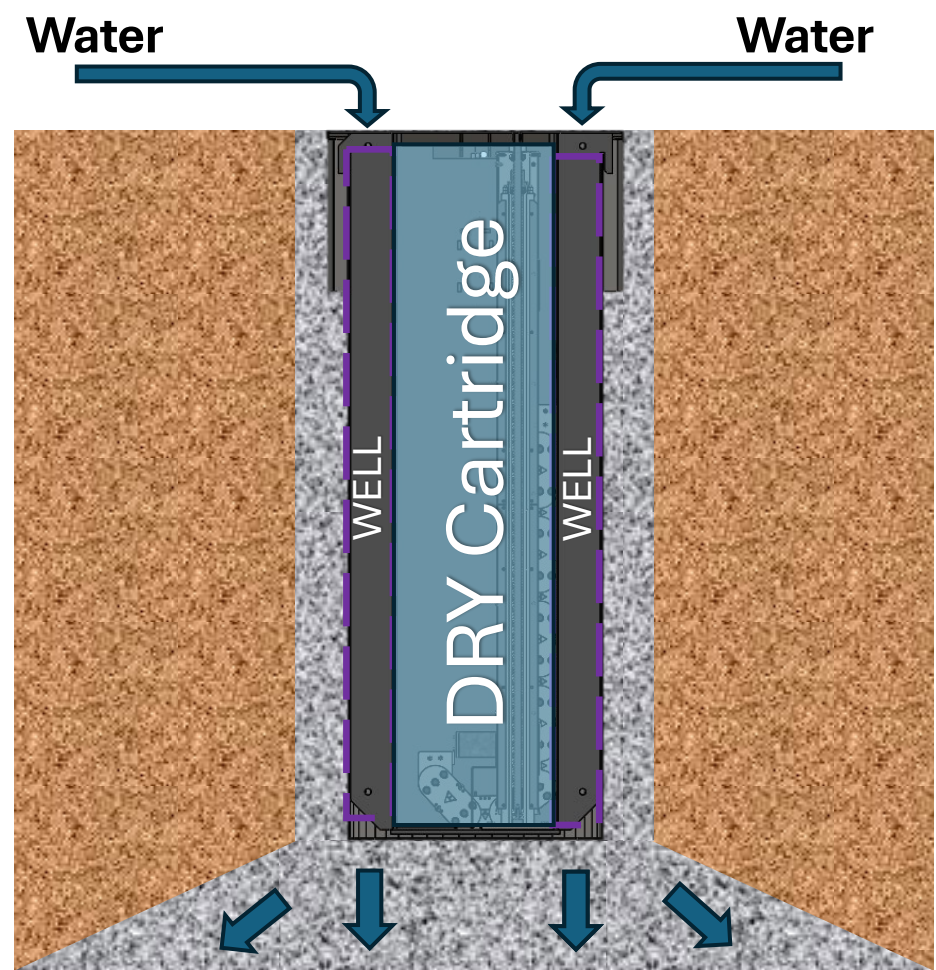
Water Management Features

- Water management through soil permeation
- Drywell catches water in between the cartridge & casing
- Site preparation is important for catch basin to drain freely
- Sump pump installed in cartridge to help mitigate any water that may enter
- Lid design drip edge prevents water return into cartridge area, leaving opening for heat ventilation



DRIP EDGE

Similar to a conventual drip edge, the lid provides a vertical surface for water to collect on and lowered into the drywell.



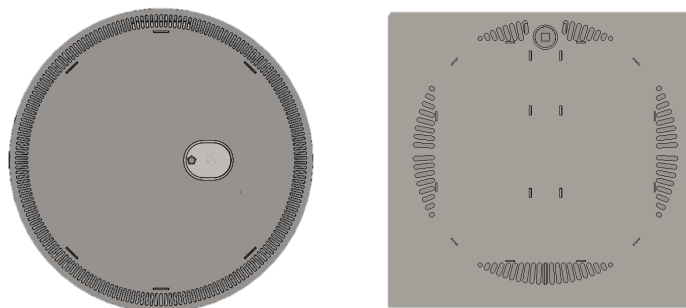
PERMEABLE SOILS

Site selection will be imperative to provide good soil conditions to all water to be pushed through the soil profile.

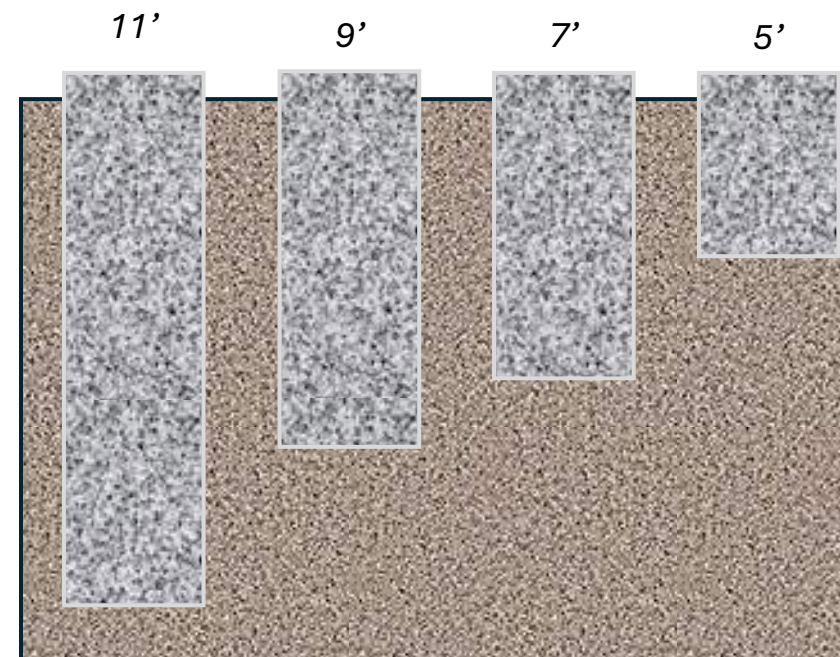
Cell sizes offered

Mini Macro Cell

- 48" Out to Out
- Square or Round inner-cartridge options
- Variable depth options
- Up to 3 carrier configuration



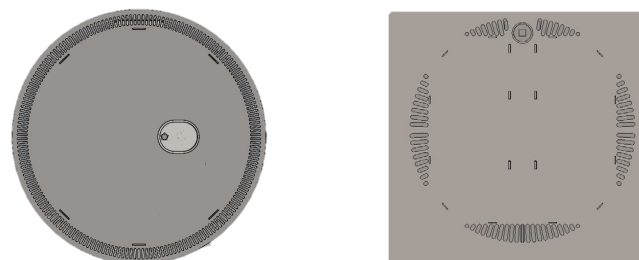
48" OUTER



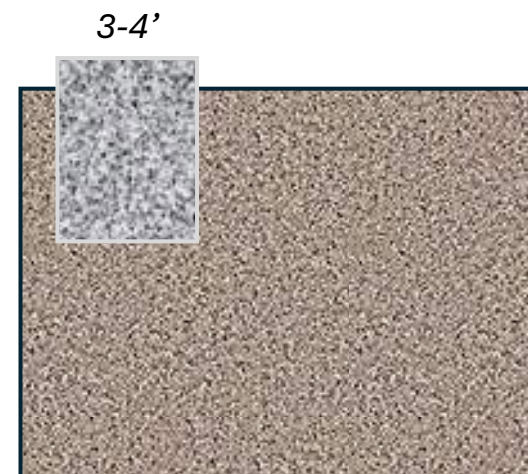
Small Cell

- 30" Out to Out
- Square or Round inner-cartridge options
- Internal Structure is square
- 3' - 4' deep (can vary based on customer)

* *specialty sizes available upon request*



30" OUTER



30" OUTER DIAMETER



WORKING TOGETHER

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