R-Tank\(^{HD}\) Modular Storage Provides Stormwater Harvesting at University of Virginia Athletic Field

Modular Versatility & Minimum Excavation
For Maximum Storage & Footprint Efficiency
“Freight Friendly” R-Tank plates are delivered to project site unassembled and palletized.

RTank panels are assembled into single R-Tank modules at site and stockpiled for later placement. ACF can provide assembly and cost certainty for modules.
During initial excavation and shaping of RTank module placement area a test was performed on seams of the impervious liner utilized for the stormwater harvesting.
Standard R-Tank$^{HD}$ design protocol in harvesting or “Cistern” applications calls for an impervious liner with a cushioning layer on each side.
R-Tank\textsuperscript{HD} Single modules are transported from stockpile for placement into the excavated and lined “Cistern” footprint.
When all of the Rtank Modules were installed the entire system was wrapped in geotextile.
The R-Tank Observation / Maintenance Ports and connection point of the pipe from the inlet structure were constructed using the standard R-Tank details.

The R-Tank system does not require expensive and complicated manifolds.
Placement of the backfill material, starting around the R-Tank perimeter, was enhanced by specialized material placement equipment.
Placement of the cover material continues on top of the R-Tank Single modules.

Minimum Fills:
- Min 20" Cover
- 24" Perimeter
- 3" Base

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Placement and finish of R-Tank cover materials continues.
The cover profile of the R-Tank System was built to H-20 load standards.
R-Tank Modular Stormwater Harvesting at University of Virginia Athletic Field - Completed