

CASE STUDY

Reinhart FoodService's NATCO Distribution Center New Bedford, Massachusetts

Storage Provided:	58,000 CF
Area:	18,000 SF
Models:	Recharger® 330XL
Number of Units:	442
Tons of Stone:	2,115 Required
Installed:	January 2010
Project Engineer:	Tibbetts Engineering Corp Taunton, MA
Contractor:	Emerald Excavating Plymouth, MA



When planning began for the expansion of Reinhart FoodService's NATCO distribution center in New Bedford, Mass., the engineers from Tibbetts Engineering Corp. were faced with the challenge of limited space. They had little choice but to place a 20,000 sq. ft. addition in place of the existing parking lot. The remaining area that had to accommodate a new parking lot was mostly occupied by a detention pond.

The CULTEC underground chamber system offered a solution to the limited space issue. About three quarters of the detention pond was replaced by 442 units of the company's Recharger® 330XL, providing 58,000 cu. ft. of storage. The system's ability to handle a large amount of runoff was an additional benefit because the expanded warehouse and new parking lot increased the number of impervious surfaces.

Additionally, the CULTEC system accommodated such on-site challenges as high seasonal groundwater and the glacial till soil with poor infiltration rate. Engineers added a shallow trench to the detention system to meet the infiltration requirements.

"An underground chamber system is a good option when a site comes with so many challenges, land availability being a major one," said Robert J. Rogers, Project Engineer with Tibbetts Engineering Corp. "CULTEC products have a good reputation, and we used them successfully on a number of previous projects."

The entire installation of the CULTEC system took about two weeks. The HDPE units are light, do not require heavy installation equipment and are made with

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Reinhart FoodService's NATCO Distribution Center

New Bedford, Massachusetts *(continued)*

interlocking connections for a fast and straightforward installation. The CULTEC system took up 18,000 sq. ft., and the installation required 2,115 tons of crushed stone.

“We installed the system quickly and easily,” said Sheamus Kelleher, Operations Manager with Emerald Excavating. “When properly installed, the units are very strong. That allows the installation crew to drive a skid steer over the top of the units during backfill operations. This saves a lot of time.”

CULTEC offers a variety of chamber sizes to accommodate almost any site constraint, and its higher profile Recharger series make optimal use of large storage capacities in a smaller footprint. The Recharger 330XL provides a bare chamber storage capacity of 52.2 cu. ft. per unit and features an internal manifold capability, which allows manifolding to take place at any point within the stormwater management system, thereby condensing the system by decreasing the required footprint.



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