

Legacy Place Dedham, Massachusetts

In Spring 2008, construction began at Legacy Place, a 675,000 square-foot open-air shopping destination, which will feature a blend of more than 80 of the nation's leading fashion, restaurant and entertainment tenants. Located in Dedham, Mass., Legacy Place will also serve as home to the new world headquarters for property owner National Amusements, a leader in the motion picture exhibition industry and the parent company of Viacom and CBS Corporation.



Following the state's stormwater regulations, the project engineers at Allen & Major Associates, Inc. needed to maintain the site's historic rate of runoff, despite the new development's increased number of impervious surfaces, as well as provide runoff recharge to the groundwater and perform water quality treatment prior to discharge to surface waters. The site presented some additional challenges, including the varying ground elevations in relation to the groundwater level and the insufficient space for the adequate number of above-ground stormwater systems.

To address the varying ground elevations, two types of CULTEC underground stormwater chambers were selected. Typically, a CULTEC system design uses the largest chamber that meets the site's depth constraint, reducing the land and number of chambers required. Instead this project specified the Recharger® 330XL, a large capacity chamber, in order to retain and recharge stormwater in areas where the depth permitted. The project also utilized CULTEC's lower profile Contactor® 125HD heavy duty chambers to accommodate the site's depth-restricted areas. The latter chamber can also be used in applications where a large infiltrative area is required.

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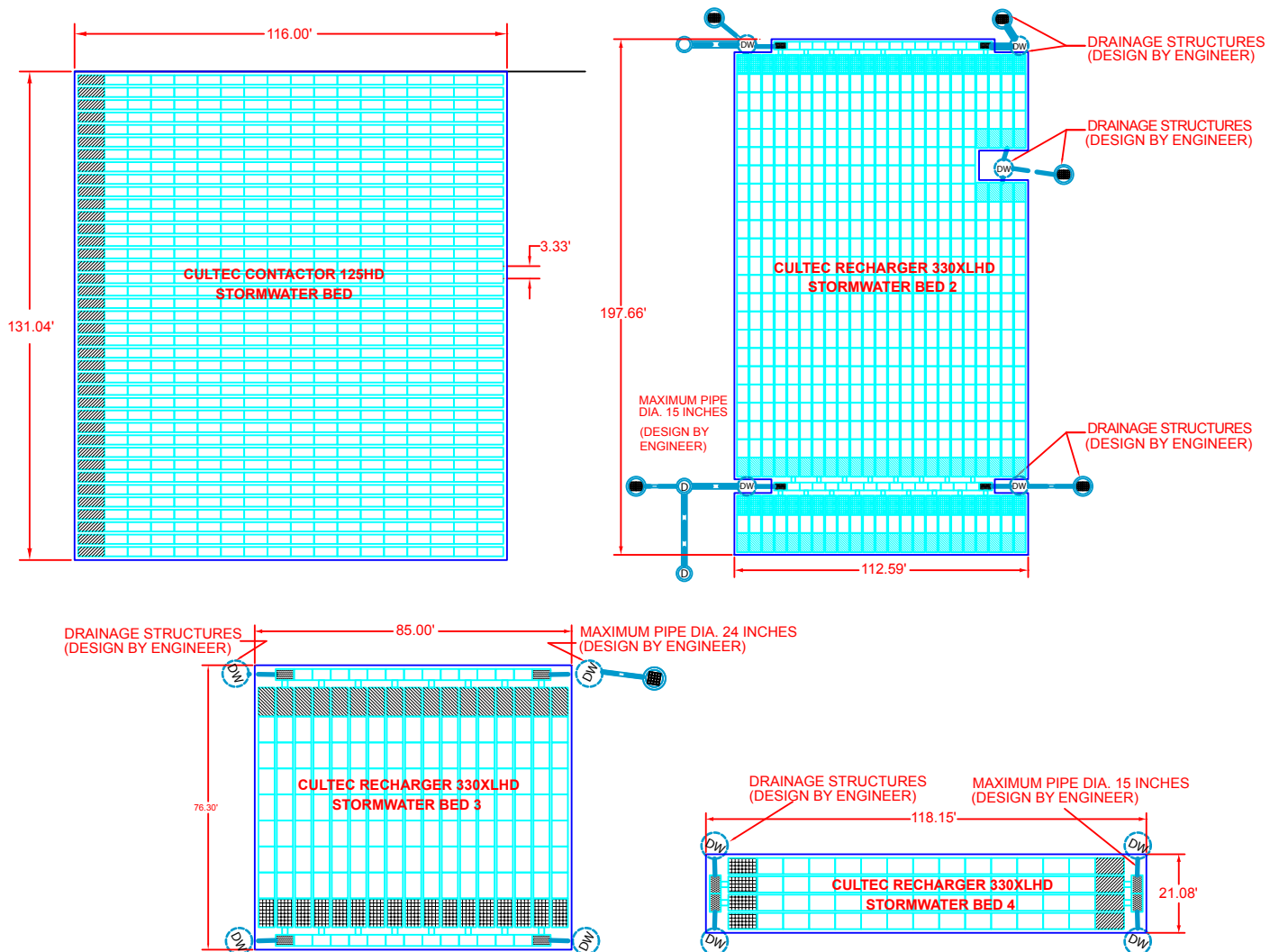
CASE STUDY

Legacy Place

The chambers are being installed in four beds, which, upon completion, will occupy 52,467 square feet and provide 74,692 cubic feet of combined storage. Employing underground chambers made it possible to create some additional parking spaces, which will be located above the system, thus helping to address a space constraint issue.

“We were pleased to work with CULTEC, whose systems were previously used by the Town of Dedham,” said Brian Jones, Senior Project Engineer with Allen & Major Associates. “The company’s chambers are very cost-effective, and CULTEC’s staff provided us with shop drawings to assist us in designing the system.”

In addition to helping with preliminary calculations and CAD designs, CULTEC conducts pre-construction meetings with contractors to ensure a smooth and trouble-free installation.



Installed:
September 2008

Contractor:
K.R.Rezendes, Inc.
Assonet, MA

Engineer:
Allen & Major Associates, Inc.
Woburn, MA

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Protected by one or more of the following patents: U.S. Patent No. 5,087,151, U.S. Patent No. 5,419,838, U.S. Patent No. 6,129,482, U.S. Patent No. 6,322,288 B1. Other U.S. and Foreign patents. Other U.S. patents pending. RECHARGER®, CONTACTOR®, HVLV™ and STORMFILTER® are trade names of CULTEC, Inc.

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