

Case Study: Commercial Development

Knowledge. Solutions. Service.

Speedy Stop - Round Rock, TX

Owner:
Speedy Stop

Engineer:
Boyer & Associates
(512) 255-2300

Contractor:
J.R. Schneider Construction, Inc.

Product Used:

- Vortechs Model 1319
- 950 lf of 66" dia. 5"x1" Aluminized CMP
- 24" & 18" diameter Aluminized ULTRA FLO with stab joints



Since Speedy Stop was founded over two decades ago, the convenience store franchise has grown throughout Texas. Over 100 locations boast the Speedy Stop name. One of the newest is located in Round Rock, Texas. Stormwater management was of utmost importance when developing the site. Located in the Edwards Aquifer watershed, the owners were required to meet stormwater provisions set by the Texas Commission on Environmental Quality (TCEQ). The site was also challenging because it was very compact – there was insufficient space for traditional stormwater treatment and detention solutions. Land value was at a premium, so designers needed to maximize as much space as possible for the store, car wash, gas pumps and parking.

The total site was 2.3 acres with 84% impervious cover. Regulations required that the 25-year storm event be detained, which meant that 22,541 cubic feet of storage was required. In addition, the method of stormwater treatment needed to be approved and permitted by TCEQ. Project engineer, Boyer & Associates of Round Rock, TX, worked with CONTECH to find the best solution.

The most cost-effective system that would meet regulations involved the combination treatment, detention, and drainage products from CONTECH - a Vortechs stormwater treatment system, a corrugated metal pipe (CMP) underground detention system, and ULTRA FLO storm sewer pipe. The shallow depth of the Vortechs system made it easy to install – plus the system has received approval for use in the Edwards Aquifer by the TCEQ. The versatility of the CMP detention system, both the fittings and outlet control options, provided sufficient storage and fit in the footprint available on-site. Finally the ULTRA FLO storm sewer pipe provided install savings compared to reinforced concrete pipe (RCP).

About the Products:

The **Vortechs** system removes finer sediment, particles, free oil, and debris from urban runoff. Using an effective combination of swirl-concentrator and flow-control technologies, it captures pollutants from runoff.

With versatile layout, material type, coatings, shapes and sizes, **CMP** solutions provide almost limitless opportunities to match individual site requirements.

The smooth interior of **ULTRA FLO** pipe improves hydraulic capacity while the exterior box ribs provide structural strength. It is available in a wide variety of materials to meet environmental and service life requirements.



9025 Centre Pointe Drive | Suite 400 | West Chester, OH 45069
1.800.338.1122 | www.contech-cpi.com

