



Triton Makes the Grade at Colorado State University

The Situation:

Contractors working with Colorado State University sought to develop a one-acre parcel to facilitate a multi-use trail and a parking lot on the Fort Collins campus.

The Challenge

Being an on-campus project, it was important that the job create as little disruption to university traffic as possible. Also, the finished lot had to be strong enough

to support fire-truck loads, due to safety standards. And these were just the above ground challenges.

The system also had to provide storage of 6,000 cubic feet of water in less than an acre of drain-field, and work with existing infrastructure elements. Additionally, because the water was ultimately to be released into downstream stormwater sewers, it had to have sediments and surface run-off contaminants removed.



The Solution

The Triton Stormwater Solutions underground chambers provided all the right answers. Triton's innovative Main Header Row allowed for sediments to be trapped and easily removed before the water was sent to the storage chambers to slowly leach through the crushed stone base layer and exit the site.

Further, the modular design of the system allowed the development team to work within the tight confines of the site, and work with existing infrastructure. Triton's strength was also a factor, as the chambers were able to easily handle the concrete top layer and support traffic loads that could include emergency equipment.

The ease of installation allowed the entire process to be completed within the aggressive two-week timetable.

The Installation

Site preparation included the excavation of the trench, laying of a geofabric cloth and establishing a foundation of crushed stone. A team of five men then completed the chamber installation in two days, including all the necessary pipe connections between the Main Header Row and the Distribution Chambers. Next, the drainfield was backfilled with crushed stone and a layer of soil was added to prepare for the concrete surfacing.

The Result

With a minimum of hassle to students and faculty, the developers were able to create a new parking area and a multi-use trail for the university community. The underground storage chambers provide attenuation for 6,138 cubic feet of stormwater runoff, satisfying the needs of the project and protecting local waterways.



The stormwater management portion of the project was completed in less than two weeks — minimizing hassle to the campus community while creating over 6,000 cubic feet of stormwater storage capacity.

WHAT THEY ARE SAYING:

"Triton was able to create a system that fit within the tight confines of the site, allowed us to maximize the above ground space and minimize downtime. Triton reacted quickly and met the deadlines for delivery, keeping things on track, despite the project timing around the Christmas Holiday."

— JACK KNAUB, HANES GEO COMPONENTS

"The Triton team was very responsive and they helped us work around the challenges presented by the tight timeline and the site constraints."

— ERIK NAKOS, JVA

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