



RT ENVIRONMENTAL SERVICES, INC.

Your Solution-Oriented Environmental Services Firm

PENNSYLVANIA'S OWN NEW STORMWATER TECHNOLOGY

Terre Hill, a leading provider of cutting edge stormwater technology provides a Project Profile for its TERRE BOX™ technology.



Watertight Joint Seal System for Concrete Structures

US Patent 7,828,496 B1

Project Case Study: Exeter Commons Regional Shopping Center

Problem: Replacement of 96 inch Corrugated Metal Pipe Stormwater Detention System that was not watertight; water leaks causing sinkholes at a retail center. Sinkholes disrupted the operation of the retail center; posed hazards to the public; and impaired the reputation of the facility.

Solution: Installation of the TERRE BOX™ with the Watertight Joint Seal for Concrete Structures. Detaining 2,300,000 gallons within a watertight structure removed the major cause of the sinkholes.



Terre Hill Stormwater Systems

More information on this:

Exeter Commons is a very busy retail center with multiple anchors:

Giant Food
Lowe's
Target

- Initial installation was 96 inch corrugated metal pipe detention system.

- Geology was Karst with evidence of sinkholes.
- Within 4 years of installation sinkholes began to appear throughout the retail center.
- Terre Hill Stormwater Systems, working with owner developed a plan to replace all detention with precast concrete box sections.
- Construction plans and sequencing allowed for the replacement of detention basins with minimal disruption to the shopping public.
- The box sections were joined together using the patented Terre Box Water Tight Joint Seal System.
- "Terre Box™ is a precast concrete box that utilizes a patented watertight joint seal system that has been certified to 20 psi hydrostatic pressure.
- Terre Box™ does not require a liner to create a watertight installation.
- The watertight joint seal system combines post-tensioning with pressure injection of grout into the annular joint space to create a watertight monolithic structure.
- Terre Box™ can be designed to solve any site condition. Terre Box™ is HS-20 load rated, without the need for a minimum cover. This load rating can be increased to meet any use requirements.
- Terre Box™ is a precast solution for Brownfields development; limestone or karst subsurface geology or where stormwater runoff must be detained or retained due to insufficient infiltration permeability.
- Terre Box™ is an MTD-BMP used for post-construction stormwater management.
- Terre Hill Stormwater Systems recommends pretreatment of stormwater runoff prior to entry into any subsurface structure to maintain the long term useful life optimum functionality of the underground structure."

For more information, contact:

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We at RT think that the TERRE BOX™ is great stormwater technology for the limestone base sinkhole prone areas of Pennsylvania. Once again TERRE HILL leads the way.

- Gary Brown, P.E.



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