

GeoStorage

UNDERGROUND STORMWATER DETENTION SYSTEM



**The Next Generation in
Stormwater Management Technology**

www.geostoragecorp.com

GEOSTORAGE UNDERGROUND

Traditional Systems Versus GeoStorage® Systems



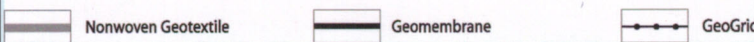
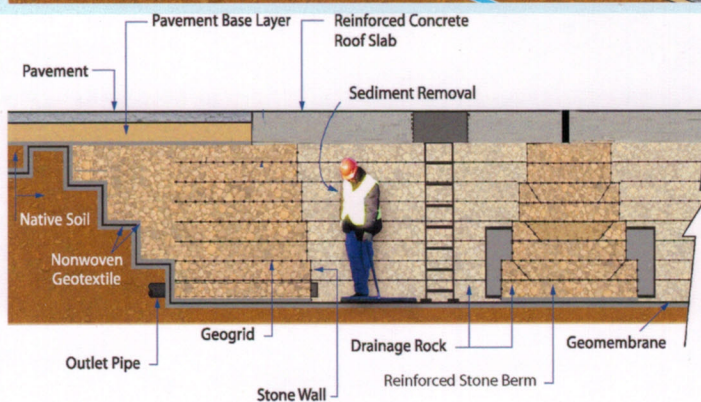
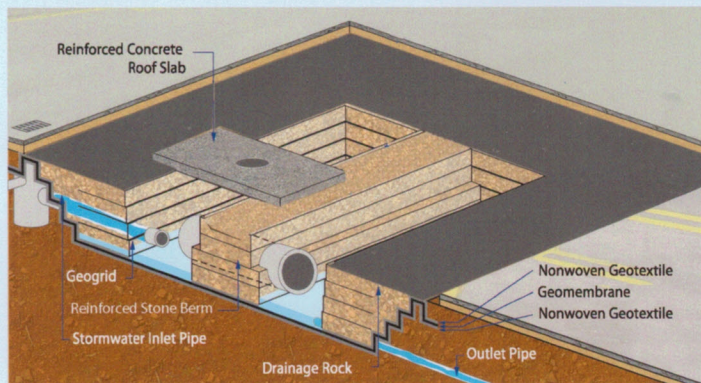
Pipes and pipe arches comprise most traditional underground storm water detention systems. Flexible plastic and metal pipes require a compacted structural backfill above, below and around the pipe resulting in additional costs and a large footprint.

GeoStorage systems utilize AASHTO (American Association of State Highway and Transportation Officials) standards to design a large, deep underground storage chamber. Reinforced walls and piers are constructed with open graded stone to eliminate pore pressures and provide additional storage capacity. The efficiency of GeoStorage reduces costs and the size of the excavation. This patented system also provides a large open chamber that enables easy access for inspection and maintenance.

GeoStorage Redefines Stormwater Management

All land development projects require a stormwater management design. A surface holding pond is the most common stormwater detention system used to capture and control the increase in peak runoff associated with large storm events. GeoStorage is installed beneath parking lots, streets and parks to maximize land usage and lower development costs. The GeoStorage Liner system can be designed for detention or recharge applications.

HOW GEOSTORAGE WORKS



STORMWATER MANAGEMENT TECHNOLOGY

Performance Analysis

GeoStorage not only offers substantial savings when compared to traditional systems, it features inherent properties and benefits that improve overall performance and provide maximum design flexibility.

PROJECT ADVANTAGES		
✓	COST	Substantial savings over traditional detention and retention systems.
✓	SIZE	Requires smaller footprint than traditional systems as shown below in land efficiency chart.
✓	DURABILITY	Constructed with a reinforced concrete roof, stone and geosynthetic products that have been tested to withstand landfill leachate.
✓	STORMWATER QUALITY	Allows for cost effective inclusion of a sand filter (see below).
✓	MAINTENANCE	Large and open chambers allow for easy access and maintenance.
✓	FLEXIBILITY	Capacity is a function of height and pier placement. These parameters can be adjusted to fit the required depth and footprint.
✓	INSTALLATION RATE	Installed faster than traditional systems.
✓	LOAD CAPACITY	Designed with ASSHTO HS-20 loading. Passenger vehicle or other loading conditions offer significant savings.

APPLICATIONS

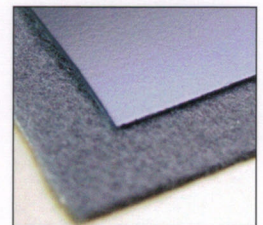
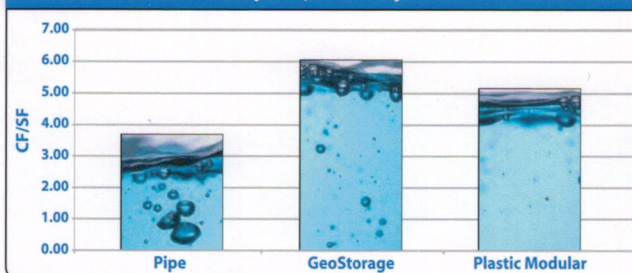
GeoStorage can be used in:

- Commercial Property
- Residential Property
- Industrial Development
- Infrastructure
- Airports
- Schools
- Sports Facilities

SITE CONDITIONS THAT INCREASE ADVANTAGES

+	Stormwater Treatment Required
+	Cut Sites-Off Site Hauling Required
+	Tight Sites
+	Rock Excavation
+	Low Leakage Requirements
+	Surface Loads <HS-20

LAND EFFICIENCY (100,000 CF)



Liner

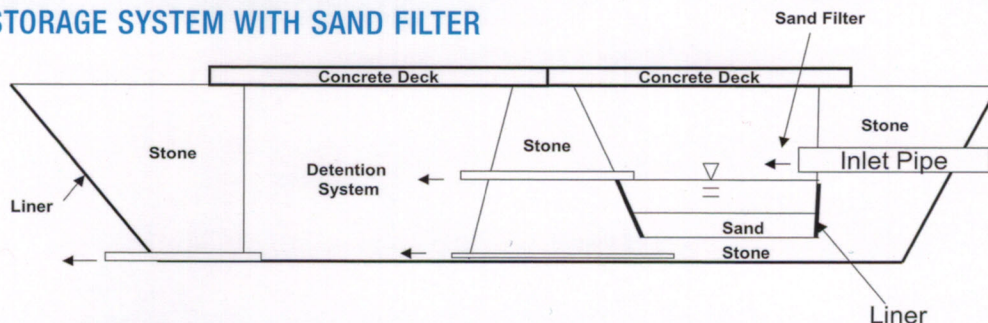


Stonewall



Roof

GEOSTORAGE SYSTEM WITH SAND FILTER



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Leadership in Energy and Environmental Design (LEED)

GeoStorage contributes to satisfying credit achievements of the U.S. Green Building Council's LEED Green Building Rating System™. For example:

1. Reduces truck traffic to the construction site.
2. Reduces the amount of excavation and potential off-site hauling from the construction site.
3. Provides a reusable water supply with a water tight system.

For more information on LEED's rating system, please visit www.usgbc.org.



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GeoStorage is a registered trademark of GeoStorage Corp.
GeoStorage Systems are patent protected by U.S. patent no. 7,473,055 B2. Other foreign patents also exist.

HydroCAD®
Stormwater Modeling System
Supported Product