

# GEOPAVE®

## PERMEABLE AGGREGATE ACCESS DRIVE

### PROJECT TEAM

#### PROJECT ENGINEER:

Pape-Dawson  
San Antonio, TX

#### LANDSCAPE ARCHITECT:

Rialto Studio  
San Antonio, TX

#### INSTALLER:

BrightView Landscape  
San Antonio, TX

#### MATERIAL SUPPLIER:

Geosolutions, Inc.  
San Antonio, TX



## HOTEL EMMA, Pearl District

San Antonio, TX



### San Antonio's Famous Pearl District Includes Permeable Pavement & Water Filtration System to Manage Stormwater on Site.

The Pearl District near San Antonio's downtown is serious about sustainability—beginning with the preservation of the historic Pearl Brewery building and other eco-friendly practices:

- **Site selection.** Easily accessed by foot, bicycle and close to transportation sources to limit emissions.
- **Efficient use of water and energy.** Use of recycled and captured rainwater and low-water-use landscaping, energy efficient windows and insulation.
- **Use of sustainable construction materials.** Use of materials containing a high percentage of recycled content.

### About Pearl Brewery

The largest brewery in Texas, Pearl Brewery was also the only San Antonio brewery to survive prohibition. The original brewery was founded in 1883.



# GEOSYSTEMS

Today a notable San Antonio landmark, Hotel Emma is a result of revitalization of the old Pearl Brewery in an area converted to urban living. Numerous restaurants and shops are home to 'Pearl', an area built around the preservation of the district's sustainable environment goals.

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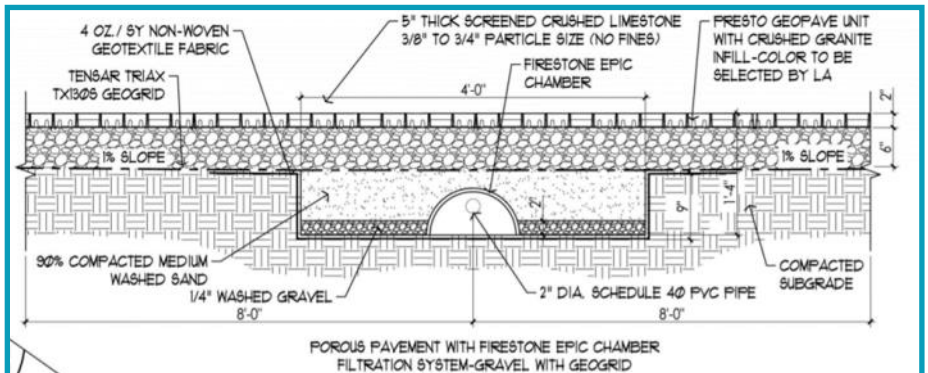
### Preserving History & Sustainability

In keeping with these environmental goals, a permeable pavement/water collection and filtration system was designed for an access way to the hotel. The highly-permeable GEOPAVE® gravel pavement system situated above a sand filtration system provided a way for water to infiltrate at its source in the motor court and be treated and controlled before release into the adjacent San Antonio River.

Presto Geosystems' Texas distributor and geosynthetic supplier Geosolutions, Inc. worked with landscape designer Rialto Studio and civil engineering firm Pape-Dawson on the porous pavement / stormwater system design. The system incorporates a multitude of components, including the Firestone EPIC chamber filtration system, Tensar Triax geogrid, non-woven geotextile, various aggregates and the GEOPAVE gravel pavers.



Specify GEOPAVE  
Gravel Pavers



### One-Two Punch for Managing Stormwater; Eliminating Point Source Pollution

The combination of GEOPAVE pavers with highly-permeable, open-graded aggregate at the pavement surface and the EPIC collection chamber underneath to collect and treat the water before release delivered a complete on-site stormwater system.

The EPIC system captures rain during storm events and stores it for use during drier times. Through natural sand filtration, the system removes 70-85% of the suspended solids and up to 35% of pathogens, creating healthier water for irrigation and discharge into waterways, virtually eliminating Point Source Pollution.

The overall system's efficient, fast infiltration and on-site treatment eliminated the need for additional storm drainage infrastructure or ponds.

