

CASE STUDY

Brewery Parking Lot

Houston, Texas



PROJECT OVERVIEW

PRODUCT:

GeoPave

ENGINEER:

GeoSolutions

CONTRACTOR:

Safeflow Utilities

CHALLENGE:

Because the brewery experiences a significant traffic flow, our aim was to implement a system that could withstand this traffic while simultaneously aligning with City of Houston detention standards, all while featuring the most aesthetically pleasing pavers available.

SOLUTION:

Collaborating with Ferguson, the contractor successfully introduced GeoPave (permeable paver) with Mirafi HP270 (structural fabric), a solution that met all the required criteria. Through on-site soil testing (provided by Ferguson), the contractor effectively implemented the use of the GeoPave Pavers and a drainable, compactable aggregate over Mirafi HP270. After several storm events, the system demonstrated outstanding performance. The contractor even managed to install handicap and parking spots via the GeoPave Snap Delineators, aligning with the owner's visual specifications.

SITE CONDITIONS:

Given that this site is situated within a floodplain area, our objective was to establish a system that would remain resilient in the face of potential flooding or intense rain events.

CONSTRAINTS:

The initial project pavement design involved a substantial layer of screened rock, which proved to be cost-prohibitive. Consequently, we had to explore alternatives, such as GeoPave Pavers to find a more economical solution.

OPTIMIZATION HIGHLIGHTS:

This approach eliminated the necessity for subgrade stabilization and enabled a reduction in the thickness of aggregate required in the base course section, all while providing a solution to address past and future moisture-related issues in the lot.

For more information, ask an expert: infogeo@ferguson.com