

GSE ROADRAIN™ CHANNELS UNDERGROUND WATER

SOUTHWEST PARKWAY STREET RECONSTRUCTION

[DURABILITY RUNS DEEP]

Location:

Austin, TX

Owner:

City of Austin, Department of Public Works

Engineer:

Onthon Inc.

Products:

RoaDrain Triplanar Geocomposite

Date:

2003



Case Study

Background

Othon Engineers, Inc. was tasked with the challenge of redesigning and reconstructing Southwest Parkway in Austin, Texas. This 6 lane stretch of highway has been problematic since the road was built in the mid 1980's. One of the major problems on this 7,600 foot reconstruction project was a 2,940 foot section stretching west from the intersection at Terravista Dr. to the intersection at Belgrade Dr. This area was often exposed to rising ground water which would infiltrate and saturate the structural base course leading to chronic premature failure of the pavement.

Solution

Any effort to correct the issues plaguing the Parkway had to address the rising ground water. GSE RoaDrain was specified to underlay the structural base course. RoaDrain's engineered triplanar structure provided a conduit to channel the groundwater out from under the structural layers of the roadway to adjacent edge drains. Keeping the water out of the structural layers ended the viscous repair cycles and ensured a long service life.



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Project Update

The reconstructed area as it appeared early in 2016. After 13 years the roadway has undergone only routine surface maintenance