



## SRT® System Used to Stabilize Slopes Surrounding George Bush Turnpike Dallas, Texas

**The Geopier SRT® system was used to stabilize a failed slope along the George Bush Turnpike. Geopier SRT® Plate Piles™ were installed in 7 days with little to no impact on tollway traffic.**

**Description:** A 30 feet high slope with an inclination of 3H:1V along the George Bush Turnpike experienced failures during periods of heavy rain. Geopier's SRT® system was identified by the geotechnical engineer as an efficient, cost-effective solution that would cause little to no impact to traffic.

**Subsurface Conditions:** Soil conditions consisted of approximately 10 to 20 feet of moist to wet fat clay (CH) fill overlying weathered shale bedrock at the top of the slope, and approximately 2 to 3 feet of fat clay fill overlying weathered shale bedrock at the toe of the slope. The failure surface was identified at a depth of 6 feet.

**Geopier Solution:** SRT® technology was chosen by the geotechnical engineer because it was a less costly alternative to remodeling the slope or installing retaining walls. The SRT system also allowed for an expedited construction schedule of 7 days that would cause little to no traffic disturbance to the George Bush Turnpike. Peterson Contractors, Inc. installed a total of 465 11-foot-long Plate Piles. Since the installation, Dallas has experienced significant rainfall and there has been no sign of distress to the repaired slope.



### PROJECT TEAM

**Owner:**

George Bush Turnpike

**Geotechnical Engineer:**

Kleinfelder

**General Contractor:**

Roy Jorgensen Associates

**Geopier Installer:**

Peterson Contractors, Inc.

**Installation:**

465 Plate Piles in 7 days