

Rock Prairie Road

[HanesGeo.com](https://www.HanesGeo.com)

Location:

College Station, Texas

Installation Date:

February 2024

Product and Quantity:

TerraGrid® TXG-7, 41,000 SY

Owner:

City of College Station

Application:

Subgrade Improvement & Pavement Reinforcement

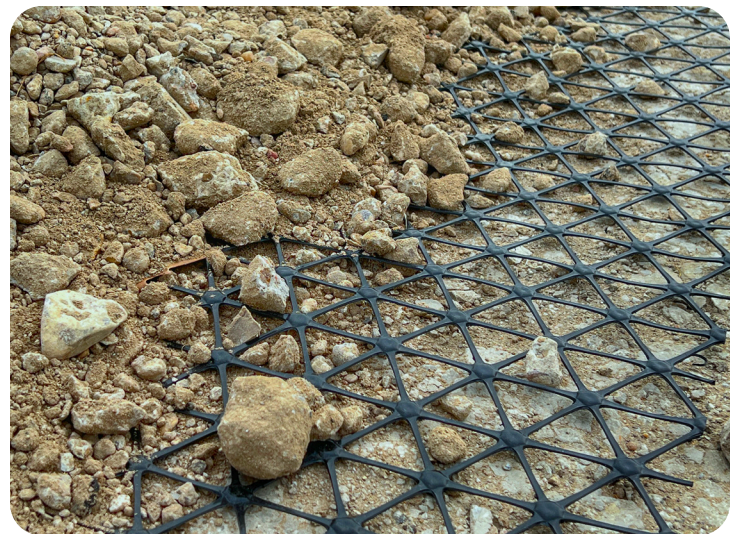
The City of College Station needed to widen Rock Prairie Road from two lanes to four, incorporating bike lanes and sidewalks. The project faced significant challenges due to saturated high plasticity (PI) clay subgrades, which weakened under moisture and rendered traditional excavation and soil replacement methods costly and ineffective.

Efforts to stabilize the subgrade using over-excavation and imported fill materials failed to achieve the necessary stability, risking budget overruns and project delays. The design team sought a cost-effective, reliable solution to address these subgrade challenges. The project team opted for TerraGrid® TXG-7, a triangular aperture biaxial geogrid from Hanes Geo Components, designed for superior subgrade stabilization. The geogrid's high tensile strength and interlocking structure allowed for confinement and effective load distribution, creating a bridging effect that reinforced the weak subgrade and prevented subgrade deformation.

A trial section using TXG-7 demonstrated remarkable performance, outperforming traditional chemical stabilization methods.

TerraGrid® TXG-7 cost efficiency reduced the reliance on expensive fill materials and soil replacement, keeping the project within budget. The geogrid's ability to provide immediate stabilization ensured the project remained on schedule.

The TerraGrid® TXG-7 ensured project success by addressing the saturated subgrade challenges effectively. The geogrid allowed for the completion of the roadway within budget and on time, while delivering a durable, long-lasting pavement structure.



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