

TxDOT FM 70 , NUECES COUNTY

BISHOP, TEXAS

BASAL REINFORCEMENT
Product: [MACGRID EG15S](#)

Problem

The soils of the south Texas area are particularly characterized by expansive clays. Expansive clays are prone to large volume changes based on the presence of water and other conditions. The changes in these clays can be so remarkable that they are reflected on the structures built on the top of them. The issues surrounding these expansive clays becomes increasingly apparent under the heavy loads that transit places on them every day. To combat this issue, roads in Texas are usually built combining structural materials and geosynthetics technologies with the goal of improving the performance of infrastructure and guarantee a safer and more durable final result for the public.

A Farm-to-Market road, common in Texas, needed stabilized to help provide access to more rural areas of Nueces County.

Solution

Maccaferri proposed a base reinforcement application using a biaxial extruded geogrid MacGrid EG15S. The MacGrid, embedded into the structural material of the base and sub-base, works as a structural reinforcement, developing interlocking and friction between the reinforcement and the structural material. This increased the performance and durability of the entire structure.

Client:

TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT)

Main Contractor:

HAAS-ANDERSON CONSTRUCTION, LTD.

Designer:

TXDOT

Products used:

MACGRID EG15S

Date of Construction:

FEBRUARY 2016 - APRIL 2016



MacGrid, embedded in the base and sub-base for reinforcement

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