

# CASE STUDY

## LEXINGTON STREET MANOR, TEXAS

BANK STABILIZATION/EMERGENCY SPILLWAY



### PROJECT SUMMARY

To support the Shadow Glenn Golf Club and adjacent residential developments, the City of Manor, TX needed to construct improvements to Lexington Street. An unnamed tributary to the Colorado River required a multi-barrel box culvert beneath Lexington Street. To facilitate large precipitation events, the consulting engineer designed the sag of the road at the box culvert location to serve as an emergency spillway. To prevent scour erosion on the roadway embankments and potential damage to the roadway during flood events, the consulting engineer chose ARMORMAX® 75 Engineered Earth Armoring Solution for protection. This system was chosen because it offered a lower cost solution than traditional hard armoring solutions and yielded a vegetated outcome that is more aesthetically pleasing than concrete.



**PROBLEM** Scour erosion of roadway embankments during large flood events



**SOLUTION** ARMORMAX® 75 which protected the embankment even after a high flood event

### FEATURES & BENEFITS

- Provides permanent erosion protection for up to 75 years
- Withstands both hydraulic and non-hydraulic stresses
- Outlasts other slope reinforcement methods yielding significant cost savings
- Provides overtopping protection
- Ease of installation reduces time and labor costs
- Reinforces vegetation and promotes sustainable aquatic habitats
- Available in green or tan to complement the natural surroundings



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