



Aggregate & Geofoam
Solution



Maple Grove Bass Lake Road project

Project description

The City of Maple Grove chose a unique solution when faced with a swamp while converting County Road 10 (Bass Lake Road) from two lanes to four lanes: it floated the roadway over the swamp. The city chose to excavate below the water table, use 15,000 cubic yards of lightweight aggregate for 12' fill, and layer 29,000 cubic yards of geofoam followed by a class 5 gravel and then pavement.

Project dates

05/11 - spring, 2012.

Special project challenges

Engineers could have designed four different solutions for this project: a long bridge extending over the swamp, excavating out the bad soils and replacing with stable material, driving piling to support the road, or floating the road over the swamp. They chose the latter as the best and least costly solution.

Team

Owner: City of Maple Grove

Design Engineers: SRF & AECOM

Engineer: Ryan Menter, PE, AECOM

General contractor: Ames Construction Co.

Aggregate supplier: Lightweight Distributing Co.

For more information about this project, contact John Hrkal at Jwhrkal@aol.com.