

Surface Pavement Solution for Poor Subgrade Conditions

Web Interim Report

County:
Palm Beach

Section/Subsection:
93140-000

FIN:
413804-1-52-01

State Road:
15

Last Updated:
August 2014



Project Description

County: Palm Beach

Section/Subsection No. 93140

State Road: 15

FIN: 413804-1-52-01

OBJECTIVE:

The objective of this study is to evaluate the relative performance of four different materials to reinforce pavements built over organic soils and peat. The treatment materials include Petrogrid, Glasgrid, Pavetrac and Asphalt Rubber Membrane Interlayer (ARMI).

The study includes two test sites, location 1 and location 2, constructed during 2008 in the Northbound and Southbound traffic lanes on SR 15 in Northwest Palm Beach County. Location 1 and 2 are separated by less than one mile.

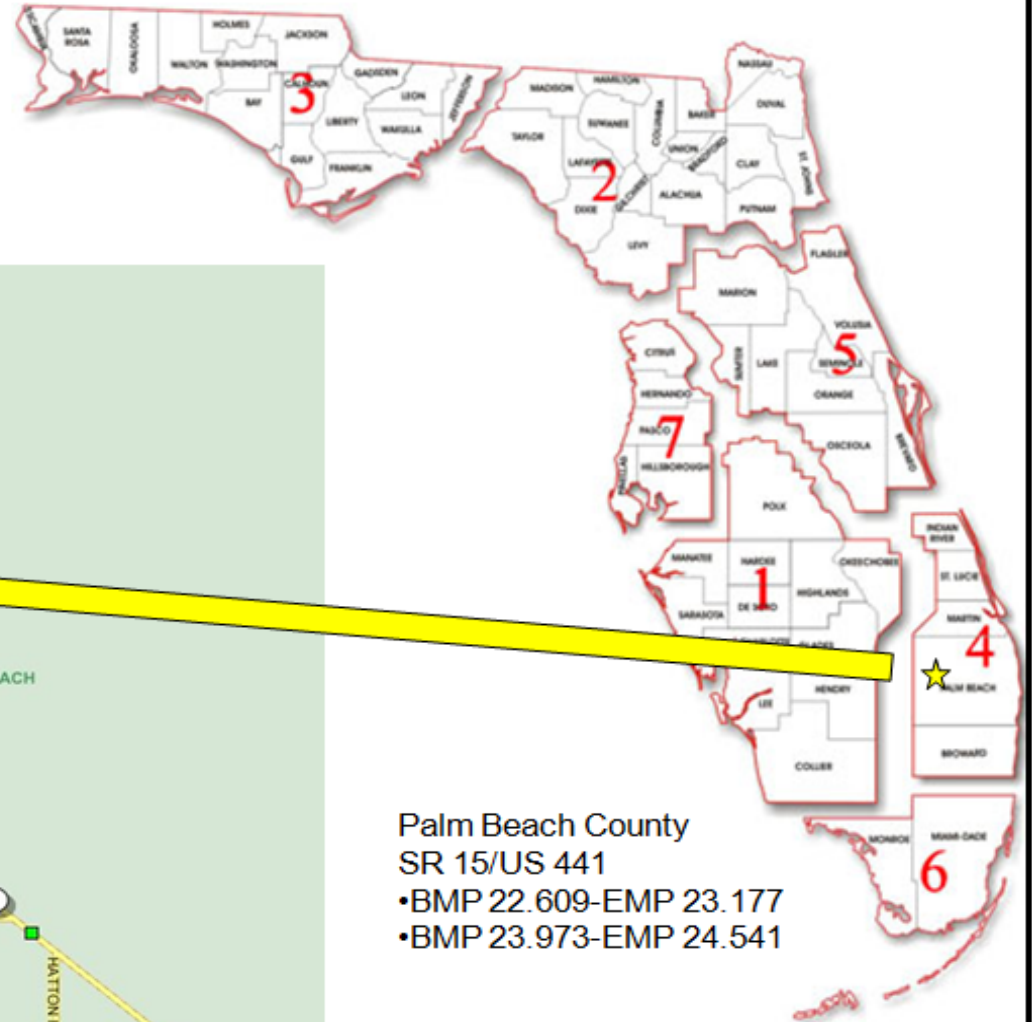
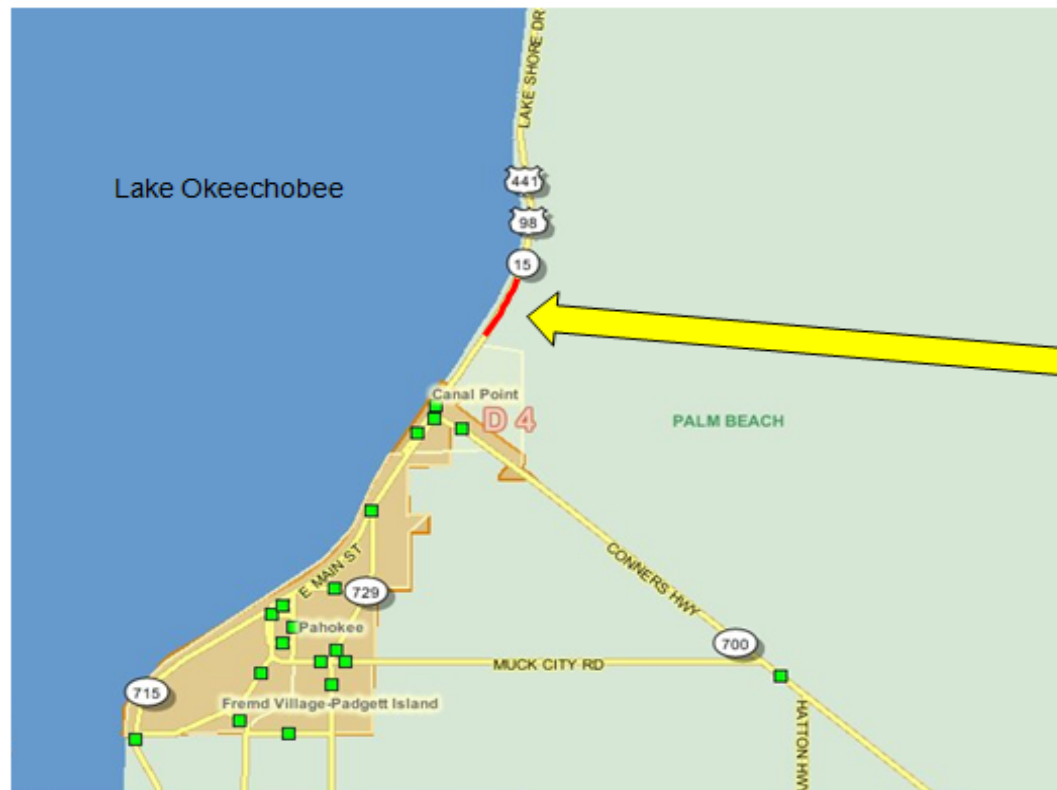
Each test site consists of six test sections, one for each reinforcement material and control sections, one at the beginning and end of each site.

Performance is evaluated in term of deflection, ride, rutting and cracking.

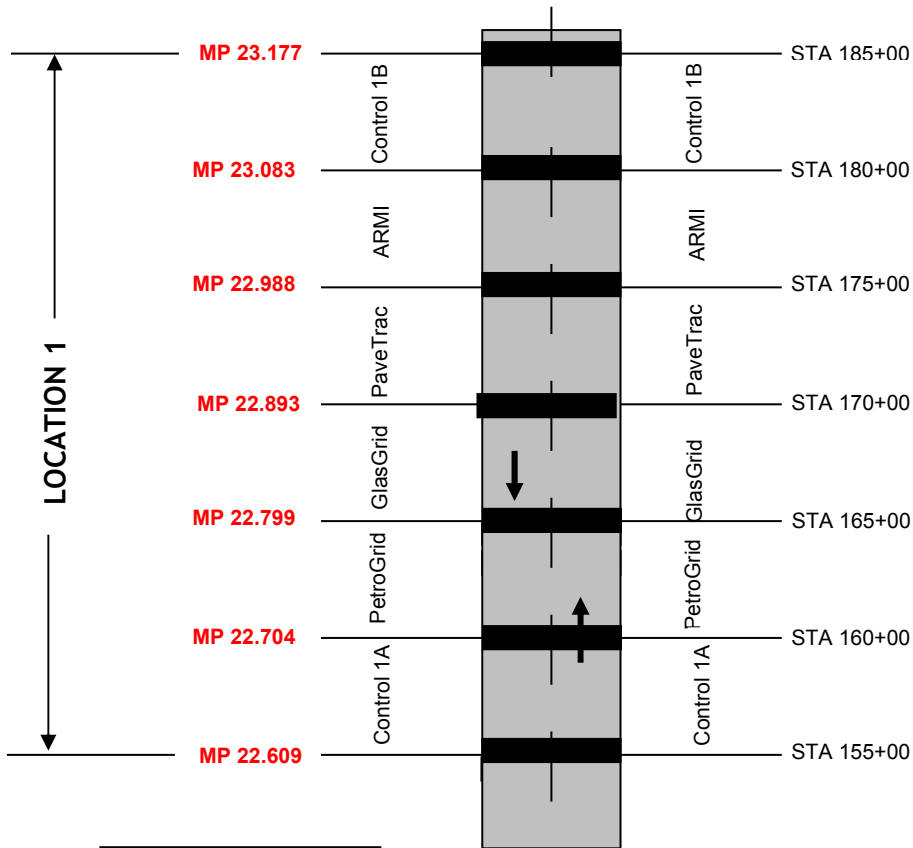
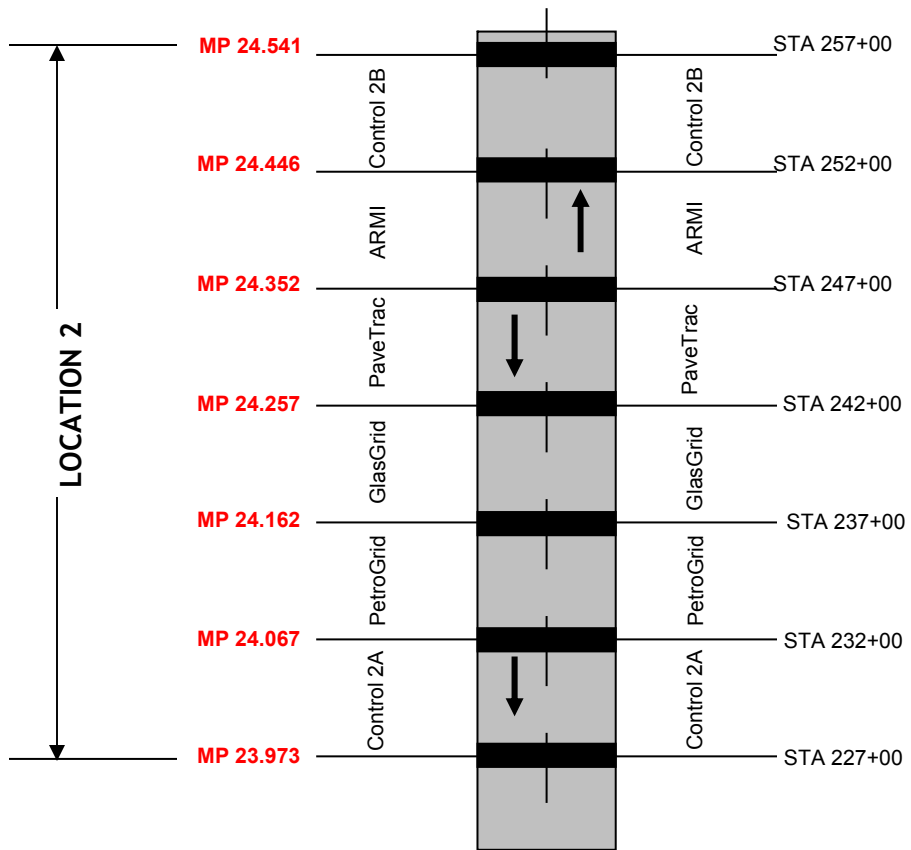
Note: This performance study is a continuation to a research project conducted by Florida Atlantic University. A report for this research project can be accessed from the following weblink:

http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_SMO/FDOT_BD546-07_rpt.pdf

Project Location



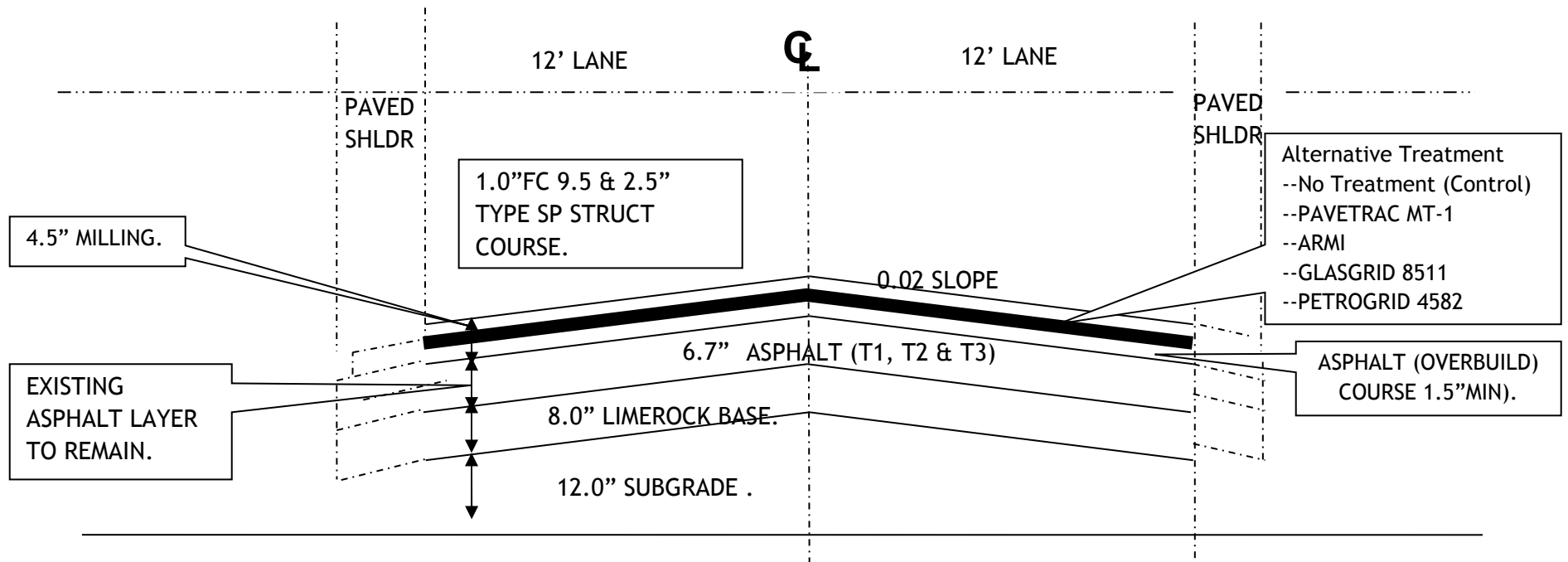
Palm Beach County
SR 15/US 441
•BMP 22.609-EMP 23.177
•BMP 23.973-EMP 24.541



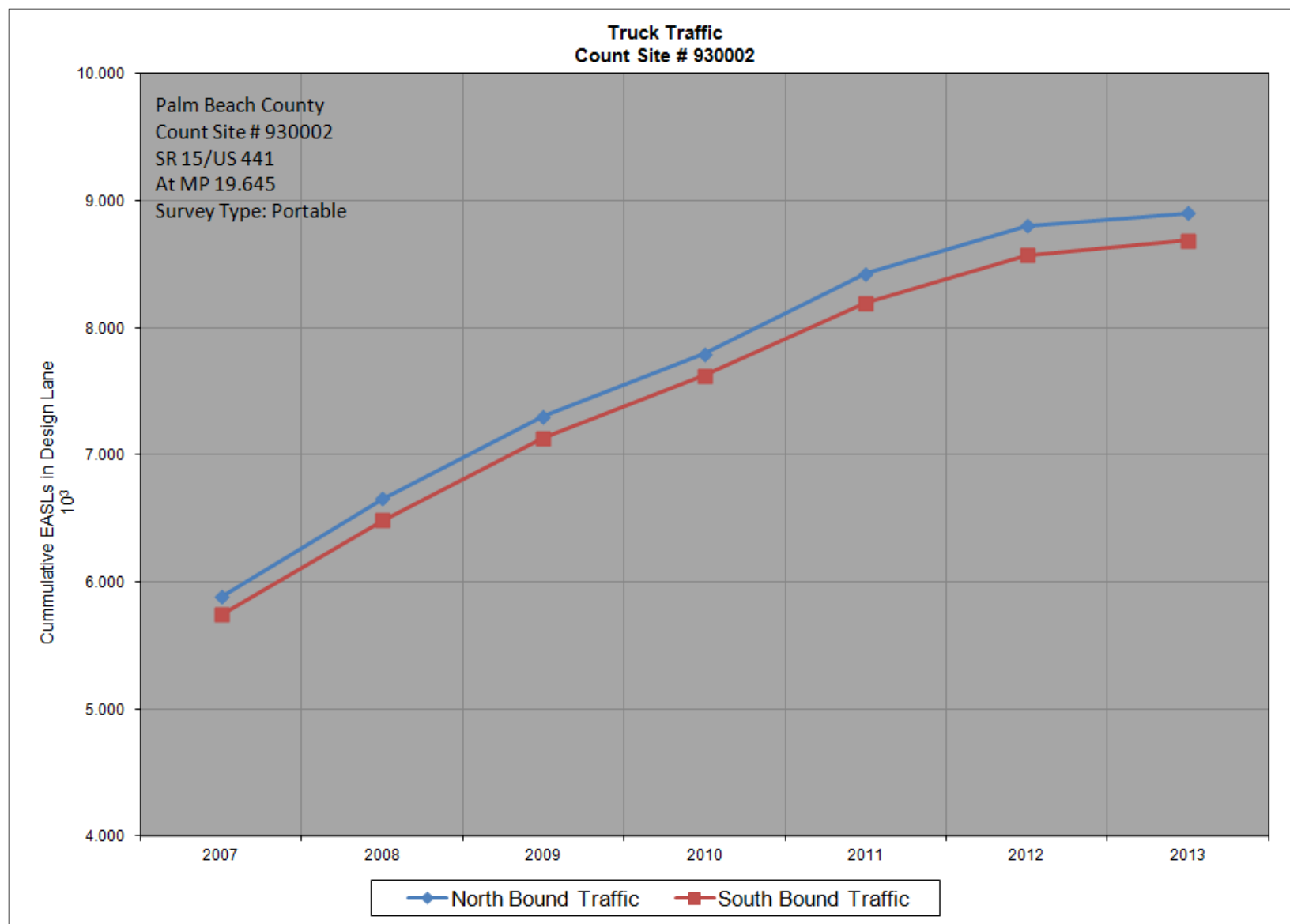
 Transition Area



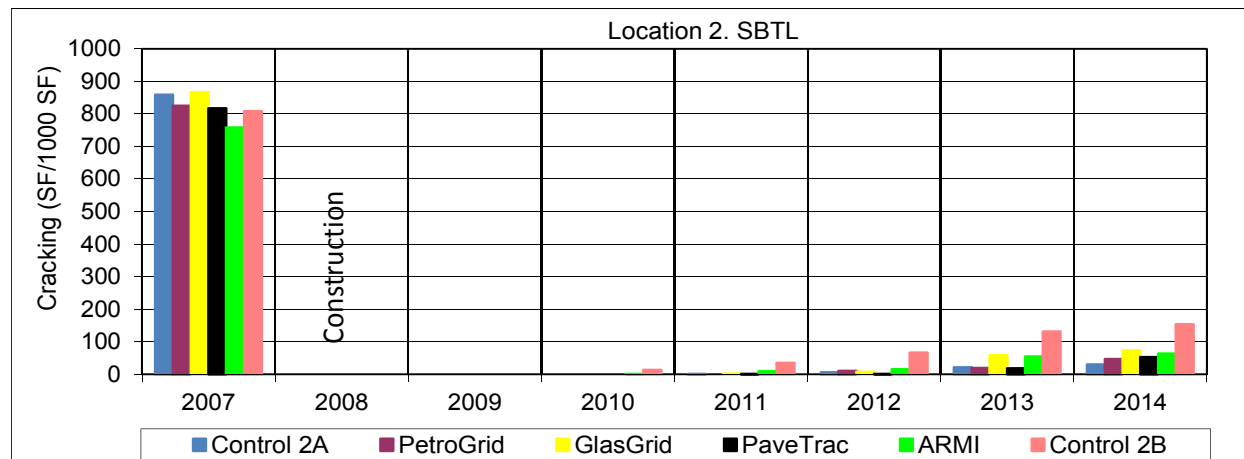
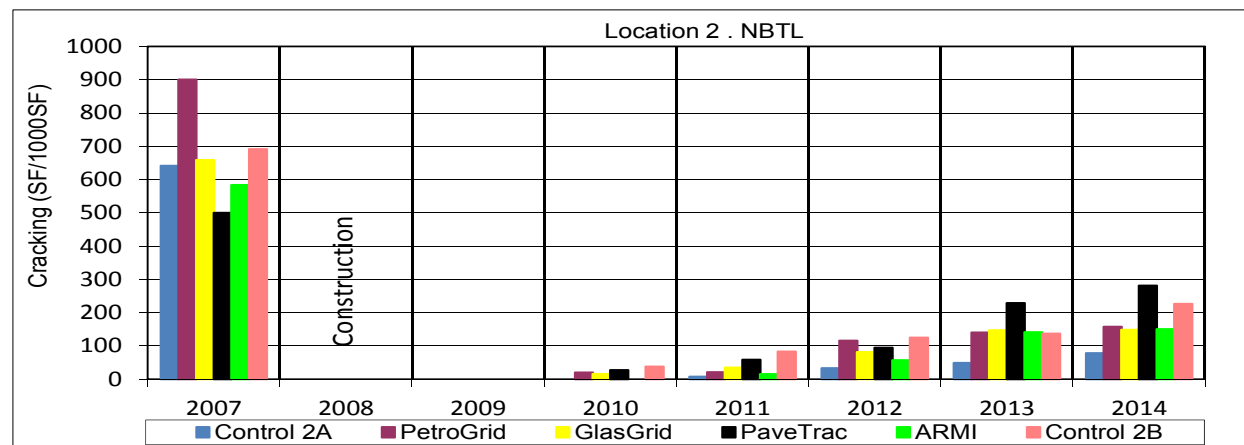
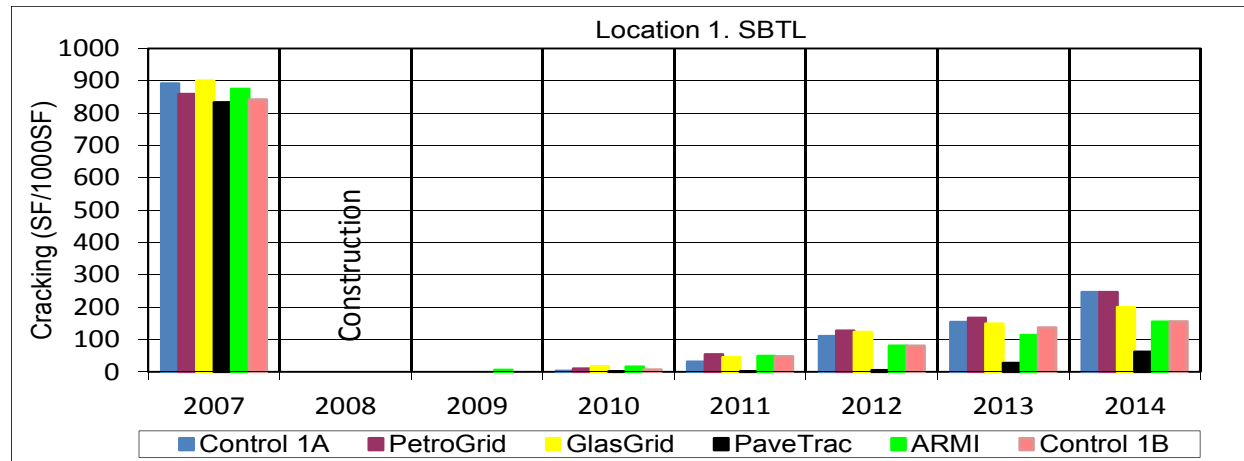
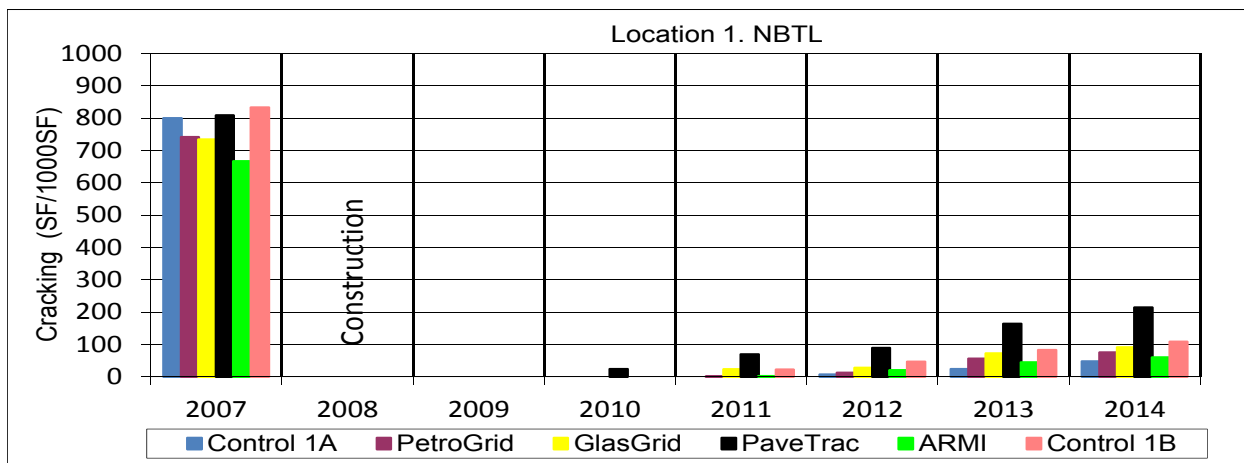
TYPICAL SECTION



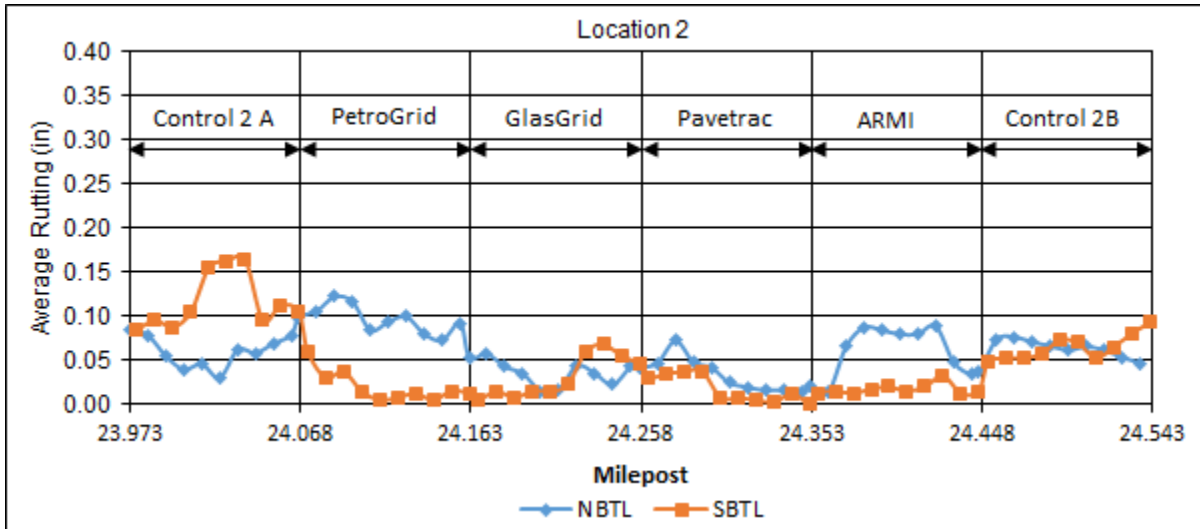
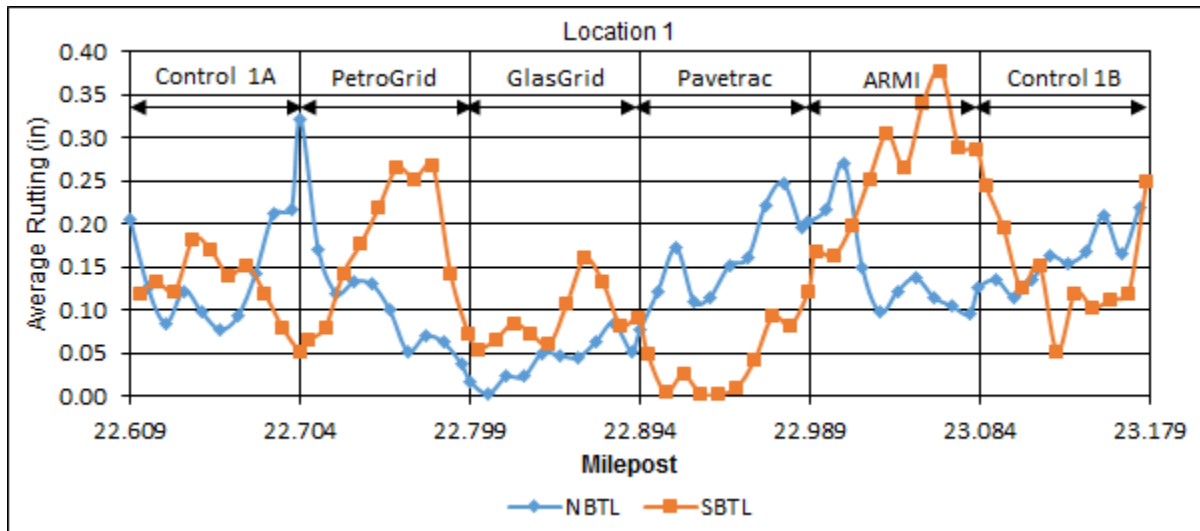
NOT TO SCALE



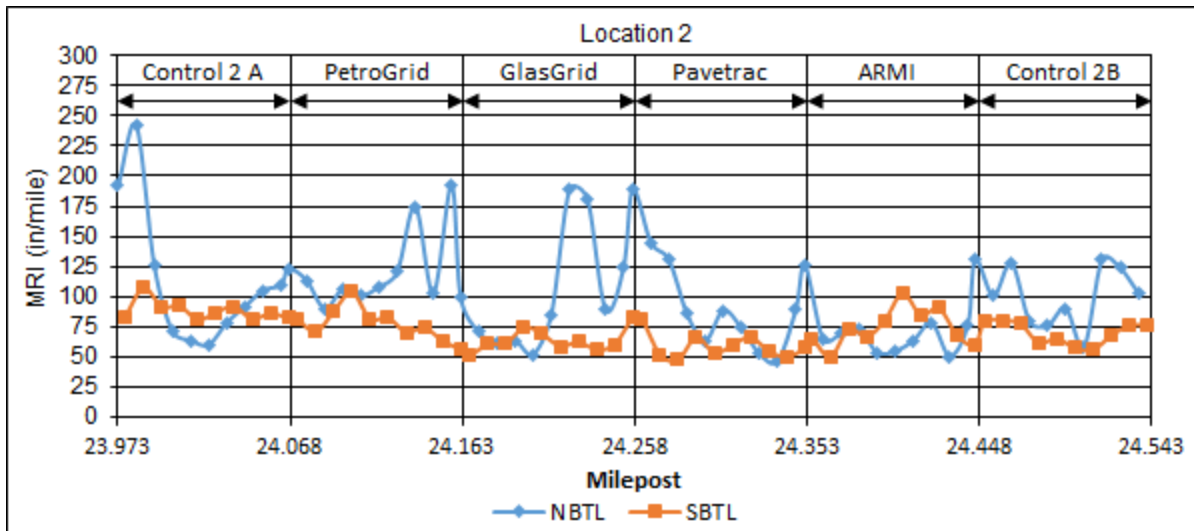
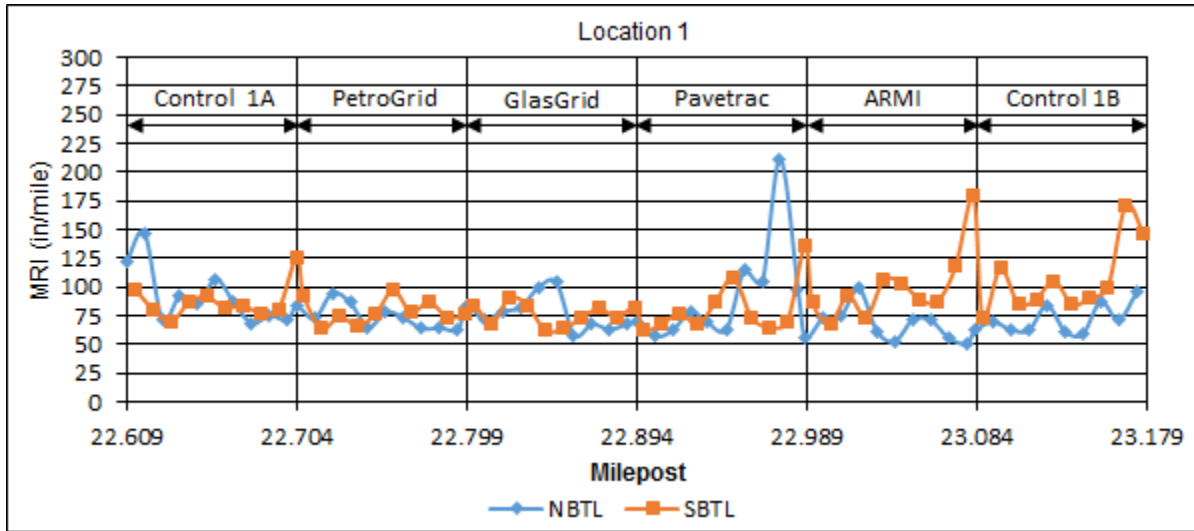
Cracking



Rutting



Mean Roughness Index



Deflection

