

State of Wisconsin/Department of Transportation
 RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: December 30, 2007

Program: SPR-0010(36) FFY99		Part: II Research and Development	
Project Title: Development of Full Scale Testing of an Alternative Foundation System for Post and Panel Retaining Walls		Project ID: 0092-07-06	
Administrative Contact: Nikki Hatch		Sponsor: Wisconsin Department of Transportation	
WisDOT Technical Contact: Mr. Robert Arndorfer		Approved Starting Date: 10/01/06	
Approved by COR/Steering Committee: \$79,998		Original End Date: 10/01/08	
Project Investigator (agency & contact): Sam Helwany, UW Milwaukee		Current End Date:	
		Number of Extensions:	

Percent Complete: 25%

Request a No Cost Time Extension (Please Select One): YES NO

Reason for No Cost Time Extension:

Project Description: Development and full-scale testing of an alternative foundation system for post and panel retaining walls

Progress This Quarter:

Design charts for the alternative “steel plate” system are being developed for various types of cohesive and cohesionless soils. Soil parameters are derived from SPT and used in a numerical code to calculate displacements caused by lateral loads.

A tentative location for the field tests has been selected with the help of Edward E. Gillen Company. The locations will be discussed with the project oversight committee before the beginning of summer 2008 when the field tests will be carried out.

Work Next Quarter:

Continue finite element parametric analysis to establish design charts for the alternative steel plate system.

Provide detailed schematics for the field tests to be carried out in the beginning of summer 2008. A testing plan and procedure will be discussed with the advisory panel and Edward E. Gillen Company. This includes exploratory borings, borings for the concrete shaft, installation of inclinometer casings, installing strain gages and other instruments before pouring the concrete, loading mechanism, and loading schedule.

Circumstances Affecting Progress/Budget:

None

Gantt Chart: