Project Title	*Agmt./Task No.*	*Item No.*	*Agency Bgt. No.*
SPR-3(072) Strength and Deformation of Mechanically Stabilized Earth (MSE) Walls at Working Loads and Failure	**SPR-3(072)**		
Research Agency	*Start Date*	*Estimated Completion*	*Revised Completion*
Royal Military College of Canada	**12/1/99**	**04/30/04**	**12/31/08**

Principal Investigator(s)	*Technical Contact*
Richard Bathurst	**Tony Allen (360) 709-5450**
WSDOT Program Manager	*FHWA or Other Technical Contact*
Kim Willoughby (360) 705-7978	**Sidney Stecker (360) 753-9555**
Funding Source	*Schedule Status*
WA, NY, ID, CA, WY, ND, MN, OR, AZ, AK	☐ On schedule ☐ Ahead of schedule ☒ On revised schedule ☐ Behind schedule

Research Area

Original Estimated Cost	*Revised Cost*	*% Funds Expended*	*% Work Completed*
$360,104	**$550,000**	**67%**	**75%**

Objective

Develop a design procedure for the internal stability of MSE walls, especially those reinforced with fabrics.

Project Progress:

Phases 1, 2, and 3 have been completed. A large database of full-scale geosynthetic walls (16 fully instrumented, full-scale geosynthetic walls and 14 walls with limited measurements) and 24 fully instrumented, full-scale steel reinforced wall sections were utilized to develop a new design methodology based on working stress principles, termed the K-Stiffness Method. This simplified design method has been described in three published papers and numerous journals, the most recent report can be found at: http://www.wsdot.wa.gov/biz/mats/Geotech/.

Phase 5 has begun and Dr. Bathurst is searching for proper fill material. Construction of the new walls will most likely start early next year.

New Period Proposed Activity:

Locate and purchase proper non-select fill material and begin construction if the weather cooperates.