



Martin O'Malley, *Governor*
Anthony G. Brown, *Lt. Governor*

State Highway
Administration

Beverley K. Swaim-Staley, *Secretary*
Darrell B. Mobley, *Acting Administrator*

MARYLAND DEPARTMENT OF TRANSPORTATION

October 5, 2011

Subject: Submittal of MagnumStone MSE System
for Maryland SHA Approval

Race Engineering & Associates
Attn: Robert Race, PE
4851 Four Seasons Court
Eagan, MN 55122

Dear Mr. Race:

We have received and reviewed your submittal package requesting approval as an approved proprietary retaining wall system for Maryland State Highway Administration (MSHA) Projects. Your full submittal included the independent consultant review performed by Mr. James Collin, PhD. P.E. and design calculations meeting AASHTO LRFD design specifications. Based on our review of this information, the MagnumStone MSE System is approved for use on MSHA Projects for walls up to 30' in height. Please note the following:

- On some occasions we limit the use of certain walls based on aesthetic or other reasons. Therefore, the use of this wall at every location is not assured, but will depend on your ability to meet any site specific requirements that will be spelled out in the contract documents.
- Only #57 stone is acceptable as backfill behind the wall.
- The wall system must be founded on a concrete leveling pad.
- When you prepare project specific contract documents, they must match the details and information in your approved submittal package. The wall design must use the positive connection of the Strata Geogrid and use the design parameters for the geogrid outlined in Dr. Collins review of the system. If you wish to revise any of the approved details or information, you must submit the revisions to us for our review and approval prior to its incorporation in any MSHA project. This review may require evaluation from an approved independent Professional Engineer if we deem it necessary.

My telephone number/toll-free number is 410-545-8060

Maryland Relay Service for Impaired Hearing or Speech 1.800.735.2258 Statewide Toll Free

Street Address: 707 North Calvert Street • Baltimore, Maryland 21202 • Phone 410.545.0300 • www.marylandroads.com

- The approval is valid for 10 years from the above captioned date after which a new review will be required.

If you have any questions concerning this project, please contact our Project Manager - Jeff Robert (telephone [410] 545-8327) for further discussion.

Very truly yours,

A handwritten signature in black ink, appearing to read "ES Freedman". The signature is written in a cursive style with a long horizontal stroke extending from the end.

Earle S. Freedman, Director
Office of Structures