

Nevada Department of Transportation
Research Division

PRODUCT OR MATERIAL EVALUATION CRITERIA
QPL Section 642.02.02
MSE Wall – Concrete Panel

Product Description: Mechanically stabilized earth (MSE) earth retention systems composed of modular precast concrete facing panels (50 sq.ft. maximum) and metallic or geogrid soil reinforcements.

Primary Evaluating Division: Materials (Geotechnical Section)

Other Evaluating Division(s): Structures, Research

Evaluation Criteria (adopted 12/9/2014):

Requirement	Criteria
Wall System Evaluation: Highway Innovative Technology Center (HITEC)	Completed evaluation under the HITEC Earth Retaining Systems Evaluation for MSE Wall Systems program.
Geosynthetic Reinforcement Evaluation (as applicable): AASHTO National Transportation Product Evaluation Program (NTPEP)	Completed evaluation under the NTPEP Geosynthetic Reinforcement (REGEO) program. Provide quality assurance and full qualification reevaluations per the NTPEP REGEO program schedule.
Previous System Usage	Minimum of 5 previous projects meeting the following: <ul style="list-style-type: none"> - Designed in accordance with the AASHTO Bridge Design Specifications - In service a minimum of 3 years Provide a project description, project plan sheets and current owner contact information for each project.
Sample Contract Submittal	Reference attached sample contract plan sheet - Provide a sample construction submittal demonstrating conformance with Department design requirements and construction specifications. Include the following: <ul style="list-style-type: none"> - Calculations for internal and external stability - Corrosion analysis (metallic soil reinforcement) - Calculations and test results for bearing pads - Design calculations for concrete panels - Material designations for soil reinforcement and connection devices/hardware - Typical details for wall panels, soil reinforcement and connection devices/hardware