

IDAHO TRANSPORTATION DEPARTMENT SUPPLEMENTAL REQUIREMENTSⁱ

Introduction

The Idaho Transportation Department (ITD) maintains seven lists, split over three MSE wall categories, of pre-approved proprietary retaining wall systems. The current lists are included in a respective project special provision for a MSE retaining wall with concrete panel facing, MSE segmental block retaining wall, or welded wire MSE retaining wall. Each list provides name, supplier, and limitations in use of pre-approved systems. Limitations may include maximum height, height restriction adjacent to bridge abutments, soil reinforcement type, and visual use restrictions. The ITD State Geotechnical Engineer may be contacted to obtain a list of approved proprietary wall systems.

Retaining wall vendor submittal requirements for requesting pre-approval are stated in Section 675.00 – Review and Acceptance Procedures for Earth-Retaining Systems, of the ITD Materials Manual. The bulk of the Section 675.00 items listed under 675.03 Initial System Approval are contained in an IDEA report. However, there are a few additional items requested, which are not listed on the IDEA protocols (available at <https://www.geoinstitute.org/special-projects/idea>). A retaining wall supplier with an IDEA report should supplement their report with the additional, specific items that ITD requires listed below; in a submittal to ITD.

ITD should contact the IDEA webmaster and update their report when their policies, etc. change. This supplemental requirements report is readily updateable, and a revision number and date should be noted.

Items that are identical to, and therefore redundant to, IDEA protocol listed items are not listed in this supplemental requirements report. However, items under a topic that the agency requests which are more specific or detailed than the IDEA protocol are listed. The wall system supplier submittal should address these items in their supplemental information or, if fully addressed in their particular IDEA submittal/report, refer to their IDEA report.

Supplement Items

- Documentation that the wall manufacturer has a large enough operation to supply the necessary wall components on time.
- System theory and its derivation.
- Where and how the theory was developed.
- Example design calculations for dynamic (earthquake) loading.
- Typical unit costs, supported by data from actual projects.

ⁱ Report Ver 1, August 2021.