

## SUMMIT GEOENGINEERING SERVICES

### Retaining Wall Design Experience

At SGS, our combined geotechnical and structural background allows us to effectively evaluate and design both gravity and reinforced retaining wall systems. Our geotechnical expertise is critical for assessing subsurface conditions (i.e. foundation soil properties, groundwater effects, etc.) and performing global stability analyses in soft soil conditions. We utilize our structural expertise for evaluating the soil-structure interaction and for designing structural components of unique walls. We can also provide clients with educated suggestions on wall types, site grading alterations/improvements, and the need for further explorations to collect additional geotechnical data for the wall design of global slope stability.

#### Small Retaining Wall Products

- Keystone
- Anchor
- Versa-Lok
- Rockwood

#### Large Precast Block Products

- CastleWall MSE
- CastleWall Gravity
- Redi-Rock
- Stone Strong
- London Boulder
- VertiBlock
- U-Wall
- S-Wall
- ReCon

#### Temporary Walls

- Tensar SierraScape
- Soldier pile and lagging
- Steel sheet piles

#### Geogrid Products

- Tensar
- Miragrid
- Stratagrid
- Huesker Fortrac
- Carthage Mills Raugrid
- Maccaferri

#### Other

- Rockery Walls
- Cast-in-place Concrete

Our services include full contractor shop drawing submittals and responses to engineer reviews. We have inspected the construction of many of the walls that we have designed. We also have been retained to investigate wall failures as an independent consultant. Our designs include NCMA and AASHTO LRFD methodologies. We have developed product specific design programs using Mathcad and Excel spreadsheets. In addition, SGS can perform global stability analyses for all types of walls.

