Wall Design Checklist

To ensure that the basics are covered in your wall design we have prepared the following wall design checklist. It may also be used by someone checking your work to provide an outline for a consistent review process.

Review Wall Design Plans For Special Conditions:

- Site Drainage Layout
- Global Stability
- Government Regulations
- High Water Table
- Seismic Design Requirements

Review Wall Design Plans For:

- Overall Length of Wall
- Station Points
- Plan Layout
- Elevations
- Grades or Slopes Above or Below Walls
- Soil Conditions

Retained Soil Friction Angle Infill Soil Friction Angle Foundation Soil Friction Angle Cohesion for Foundation Soil Soil Settlement Potential

• Water Management

Above Grade Below Grade Excess Irrigation

- Locations of Catch Basins and Utilities
- Compliance to Specifications
- Surcharges (live, dead, and location)
- •Temporary Construction Loads
- Snow or Storage Loads
- Special Provisions

Design Review:

- Grid Length
- Grid Spacing
- Grid Placed on Consistent Courses
- Design Factors of Safety

Sliding

Overturning

Bearing

Grid Overstress

Pullout from Soil

Pullout from Block

Internal Compound

Global

Seismic

• Water Management Details

Surface Water Sources

Subsurface Water Sources

Details for Low Permeability Soils

Location and Venting of Toe and Heel Drains

• Overall Quantity Estimates

Block

Grid

Wall Rock

- Construction Details
- General Notes and Specifications





