



Structural Engineering

GMU is a multi-disciplined engineering firm with over 50 years of experience.

Structural Engineering Advantage

- · Combined Structural Engineering and Geotechnical Engineering enables GMU to:
 - Develop more efficient designs
 - Eliminate communication errors between SE's and GE's
 - Provide value engineering on the fly
 - Deliver the most cost-efficient design
- · Numerical Modeling (FLAC, PYWall, LPILE) for complicated or deflection sensitive structures
- GMU Field Inspection Staff Combined Registered Special Inspectors and Soils Technicians enables GMU to inspect all aspects of wall structures

Structural Services

GMU has provided the following services:

Master Planned Communities

- Retaining Walls (All Types: Masonry & Concrete, MSE Walls, Permanent Shoring, Tie-Backs, Soil Nail, Gravity Block)
- Screen Walls, Monument Walls, Pilasters
- Landscape Structures (All Types: Shade Structures, Light Poles, Gates, Decks)
- · Floating Master Retaining Wall Plans

Retail Centers

- · Retaining Walls (All Types)
- · Screen Walls, Monument Walls, Pilasters
- Landscape Structures (All Types)
- · Trellises, Light Poles
- Shoring

Sports and Community Parks

- Retaining Walls (All Types)
- · Screen Walls, Monument Walls, Pilasters
- Landscape Structures (All Types)

Water Districts

- Retaining Walls (All Types)
- Shoring
- Slope Stabilization

Private Residences

- Retaining Walls (All Types)
- Screen Walls, Monument Walls, Pilasters
- Landscape Structures (All Types)
- Shoring
- · Slope Stabilization

Schools

- Retaining Walls (All Types)
- · Screen Walls, Monument Walls, Pilasters
- Landscape Structures (All Types)

Home-Owner Associations

- Existing Screen and Retaining Wall Repair
- Underpinning
- · Landscape Structure Upgrades
- Slope Stabilization

Slope Stabilization

- Solider Piles/Caissons
- · Tie-Backs
- Soil Nails

Shoring

- Cantilever
- Braced
- Tie-Backs

CORE SERVICES

Geotechnical Engineering and Engineering Geology

Pavement Engineering

Structural Engineering

Civil Engineering

Forensic Engineering/Expert Witness

Construction Management/ Monitoring

Soils Materials Testing

SPECIALTY SERVICES

Comprehensive Field Inspection Services – Soils and Registered Special Inspection

Stormwater QSP

Geotechnical Instrumentation

Geotechnical and Seismic Numerical Modeling

Construction Vibration/Blast Consulting

STRUCTURAL ENGINEERING SERVICES

Calculations

Design Plans and Specifications

Bid Packages and Evaluation

Engineers Estimates

Construction Structural Observations and Special Inspection

