

# Shear<sup>®</sup> Engineering

## Consulting / Training / Support

[www.shearengineering.com](http://www.shearengineering.com)

- Training for identifying house damage and causes
- Training for FHA / HUD grading and structural standards
- City and County Building and Development process support
- Construction process (bidding / reviewing bids / contractor selections)
- Retaining wall design and construction issues
- Value Engineering
- Expert witness

## Structural Engineering Services

- Foundation design (residential / commercial / agricultural / pre-manufactured structures)
- Alternative foundation foam form systems
- Structural design (residential / commercial / agricultural / pre-manufactured structures)
- Custom Homes / Sunrooms
- Post-Frame Buildings (Pole Barns) / Metal Buildings
- Residential additions and remodels
- Retaining wall design
- Deck foundation and structure design
- Pergola foundation and structure design
- Structural warranty inspection record
- Building permit submittal application support
- HUD / FHA (Housing and Urban Development) observations / certifications
- Residence structure damage observations / opinion & recommendation report
- Pre-purchase structure observations / opinion report
- Insurance claim damage observations / opinion & recommendation report (fire, water, snow load, wind load and impact load damage)
- Truss loading and structure modification recommendations
- Building permits for existing structures
- Residential wind turbine support analysis

## Construction

- Excavation observations
- Footing formwork / footing reinforcing placement observations
- Foundation wall steel placement observations
- Alternative foundation foam form system observations
- Perimeter drain installation / dampproofing observations
- Framing observations
- Caisson construction observations
- Basement structural subfloor observations (steel or wood)
- Structural steel bolt and weld observations / certifications



Lot 54, Eagle Ranch Estates P.U.D.; 3950 Aerie Lane, Ft. Collins



Lot 12, Block 1, Terry Cove P.U.D.; 3404 Harbor Way, Ft. Collins

## Civil (sitework) Engineering Services

### Site-specific (residential and commercial)

- Site Plan
- Grading design
- Site Grading certification
- Mountain roads and driveways
- Percolation test / report
- Individual Sewage Disposal System (ISDS)
- Elevation certificate
- Building setback certification
- Site investigation prior to purchase of property



Lot 81, Block 2 Harmony Subd, Second Filing; 6813 Clovis Court, Timnath



Lot 14, Harmony Subd., First Filing; 3912 Bidens Gate Drive, Timnath



Lot 136, Block 5 Harmony Subd, Second Filing; 6926 Ridgeline Drive, Timnath