

### Jennifer Volz | Senior Associate



#### EDUCATION

- Colorado State University
  - Bachelor of Science, Civil Engineering, 2000
- The Pennsylvania State University
  - Master of Science, Architectural Engineering, 2003

#### PRACTICE AREAS

- Failure Investigation
- Foundations and Retaining Walls
- Peer Review
- Concrete Structures
- Field Monitoring
- Structural Evaluation

#### REGISTRATIONS

- Professional Engineer in CO, KS, NE, ND, NM, and WY
- Professional (Structural) Engineer in AZ and UT

#### PROFESSIONAL AFFILIATIONS

- Colorado Association of Geotechnical Engineers (CAGE)
- Structural Engineers Association of Colorado (SEAC)

#### CONTACT

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#### EXPERIENCE

Since joining the Denver office of WJE in 2004, Jennifer Volz has been involved in a wide array of structural design, investigation, and repair projects. As part of these projects, she performs assessment of existing structures, designs repairs, and develops construction documents for existing and new structures. Ms. Volz also has evaluated structural distress due to unstable soils. In particular, she has been involved in the investigation and repair of numerous structures impacted by expansive and collapsing soils.

Ms. Volz began her career as a design engineer for Leslie E. Robertson Associates, Inc. She was involved in the analysis and design of concrete, masonry, steel, aluminum and wood structures ranging from museums and high-rise buildings to single-family homes throughout the United States and abroad.

#### REPRESENTATIVE PROJECTS

##### Foundations and Retaining Walls

- Call Center - Loveland, CO; Long-term monitoring
- Safeway Store - Aurora, CO: Monitoring and stabilization
- Retail Store - Thornton, CO: Long-term monitoring, assessment, and repair of foundations affected by expansive soil
- Weston County Events Center - Newcastle, WY: Assessment and stabilization of foundations and slabs affected by hydrocollapsible soils
- Armory - Fort Collins, CO: Assessment of foundation and slab movement due to expansive soils
- Colorado State University Shortgrass Steppe Research and Interpretation Center - Nunn, CO: Assessment of foundation movement

##### Peer Review

- Grand Lodge at Peak 7 - Breckenridge, CO: Review of the structural systems
- Grand Vacations - Peak 8 - Breckenridge, CO: Provided structural peer review services
- United States Embassy - Santo Domingo, Dominican Republic: Peer review of roof paver design for wind loads
- Charles Schwab Denver Service Center - Denver, CO: Peer review services specifically related to the precast concrete elements for seven structures

##### Concrete Structures

- Carrara Place - Greenwood Village, CO: Post-tensioned parking garage assessment
- Park Central - Denver, CO: Post-tensioned parking garage assessment and repairs
- Colorado State Bank and Trust - Denver, CO: Monitoring, assessment, and repair of concrete waffle slabs
- Lory Student Center - Fort Collins, CO: Design of carbon fiber reinforced polymer (CFRP) for strengthening of gravity and lateral systems
- Luxury Condominiums - Greenwood Village, CO: Design of CFRP strengthening of damaged post-tensioned concrete slab
- Colorado State Bank and Trust - Greenwood Village, CO: Analysis of an existing post-tensioned concrete slab to support a proposed vault and design of CFRP strengthening
- One Cherry Center - Denver, CO: Evaluation of precast concrete plaza for new planter/landscape loads

##### Field Monitoring

- East Meadow Drive - Vail, CO: Survey of the existing condition of several buildings within the influence area of a utility improvement project
- Residences at Little Nell - Aspen, CO: Survey of the existing condition of several private residences, condominiums, and a multiuse structure prior to commencement of new construction in adjacent lot
- Village Center - Jackson, WY: Survey of a lodge and tram terminal prior to the demolition of an adjacent structure
- 100 St. Paul - Denver, CO: Survey of two commercial buildings adjacent to new construction
- Country Club Tower II - Denver, CO: Visual survey and vibration monitoring of a National Historic Landmark during nearby construction

##### Structural Evaluation

- Nationwide Retail Store - Design of repairs for deficient or damaged steel framing components
- School District - CO: Assessment of foundations and first floor framing of thirty-two schools