PERSONNEL QUALIFICATIONS

Terrence (Terry) McGovern | Associate Principal

EDUCATION

- University of Michigan
  - Bachelor of Science, Civil Engineering, 2008
  - Master of Science, Civil Engineering, 2009

PRACTICE AREAS

- Coatings
- Concrete Structures
- Construction Troubleshooting
- Structural Analysis
- Failure/Damage Investigations
- Litigation Consulting
- Nondestructive Evaluation
- Parking Structures
- Repair and Rehabilitation

REGISTRATIONS

- Professional Engineer in CO

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- International Concrete Repair Institute (ICRI)
- Structural Engineers Association of Colorado (SEAC)

TECHNICAL COMMITTEES

- ACI 546 - Repair of Concrete
- ACI 563 - Specifications for Repair of Structural Concrete
- SEAC - Precast Concrete

CONTACT

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EXPERIENCE

Terry McGovern has participated in the investigation and rehabilitation of multiple concrete, steel, and wood structures. Many of these projects have included in-depth analysis, repair and rehabilitation design, production of construction documents, and observation services during construction.

Mr. McGovern's focus is in existing structures, with an emphasis on concrete structures. He has participated and led the evaluation of many cast-in-place, precast, prestressed, and post-tensioned concrete structures. These evaluations have included assessments of structures to evaluate current levels of distress and develop short- and long-term maintenance and repair plans.

In addition, Mr. McGovern has evaluated numerous concrete and coating material failures to identify the causes of the failures and provide recommendations for repair.

REPRESENTATIVE PROJECTS

Coatings

- Aircraft Hangar - Loveland, CO: Evaluation of coating failure at slab-on-ground
- Thule Building - Boulder, CO: Assessment of floor coating and repair recommendations
- Millennium Bridge - Denver, CO: Review of traffic coating on pedestrian bridge
- Empower Field at Mile High - Denver, CO: Design of new and repair coating systems for existing steel elements
- Private Horse Arena - Parker, CO: Evaluation and development of repair options for coating on structural steel framing

Concrete Structures

- Drinking Water Storage Tanks - Englewood, CO: Condition assessment of two three-million-gallon concrete water tanks
- 1801 California - Denver, CO: Evaluation and repair design of precast concrete parking structure
- 1125 17th Street - Denver, CO: Assessment and repair design of cast-in-place concrete parking structure
- 700 Broadway - Denver, CO: Condition Assessment, repair design, and construction observation for post-tensioned concrete parking structure
- Tremont Parking Structure - Denver, CO: Long-term maintenance and repair planning for precast concrete
- Park Central Parking Structure - Denver, CO: Assessment and repair design for post-tensioned concrete
- Willow Creek Dam - Harrison, MT: Condition assessment, material evaluation, and repair recommendations for concrete spillway
- The Arboretum - Denver, CO: Assessment and repair design for cast-in-place concrete exterior columns and spandrel beams

Structural Analysis

- 1660 Lincoln Street - Denver, CO: Evaluation of precast concrete floor for file storage loads
- 5613 DTC Parkway- Englewood, CO: Evaluation and repair design for deteriorated foundation wall elements and analysis of composite steel framing for isolated concentrated loads
- Hampden East Condominium Association - Denver, CO: Investigation and evaluation of precast concrete double-tee elements to support additional roof loading
- Fort Leavenworth - Leavenworth, KS: Evaluation, review, and design of shoring for remodel of historic structure
- Commons Park West - Denver, CO: Evaluation and analysis of post-tensioned concrete parking structure due to beam and column cracking

Failure/Damage Investigations

- Erie Middle School - Erie, CO: Structural evaluation of school after a natural gas explosion
- Southlands Shopping Center - Aurora, CO: Tornado damage investigation of roof deck and supporting steel joists
- Denver, CO: Evaluation and retrofit design for deficient precast concrete wall and column joints
- Denver, CO: Slab-on-ground distress review and recommendations for revised practices and specifications
- Denver, CO: Investigation of precast concrete stair collapse; assistance in load testing revised stair design