



EDUCATION

- Colorado School of Mines
 - Bachelor of Science, Engineering - Civil, 2010

PRACTICE AREAS

- Repair and Rehabilitation
- Concrete
- Failure Analysis
- Concrete Structures
- Construction Materials
- Instrumentation/Monitoring/Load Testing

REGISTRATIONS

- Professional Engineer in CO and KS

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- American Society of Civil Engineers (ASCE)

CONTACT

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EXPERIENCE

Andrew Jenkins has participated in the in-depth investigation and rehabilitation of multiple precast concrete structures. This has included various types of condition assessments utilizing both destructive and non-destructive testing, and observation services during construction.

Prior to joining WJE, Mr. Jenkins worked for the Kansas Department of Transportation, where he was involved with concrete materials research and provided technical field services. His projects there included evaluation of new concrete materials and test methods, condition assessments and failure investigations of pavements, bridges and other transportation facilities, and concrete material and/or mix design services during construction, including guidance related to concrete material properties and proportions, specifications and/or materials testing. Mr. Jenkins also developed and administered specification and concrete mix design courses as part of continuing education efforts.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation

- Folsom Field - Boulder, CO: Evaluation, design, and repair observations of expansion joints in structural steel stadium seating
- Sports Authority Field at Mile High - Denver, CO: Evaluation and creation of repair documents for distressed concrete slab-on-ground stairs
- 1801 California - Denver, CO: Evaluation of and repair design for severely settled slab-on-ground sidewalk

Concrete

- Internal Curing with Lightweight Aggregate - Topeka, KS: Evaluated effects of using presaturated lightweight aggregate on concrete properties*
- Effects of Set Retarding and Set Accelerating Admixtures on Concrete - Topeka, KS: Evaluation of set retarding and accelerating admixtures on concrete properties*
- Using Aggregate Voids to Optimize Concrete Mixtures - Topeka, KS: Evaluation of aggregate void and paste content on plastic and hardened concrete properties*

- Kansas DOT Specifications - Topeka, KS: Evaluating and maintaining, and updating concrete material specifications*
- Kansas DOT Special Provisions - Topeka, KS: Project special provision for the use of internal curing via lightweight aggregate*
- Kansas DOT Training and Continuing Education- Statewide, KS: Development and administration of specification training and concrete materials education courses*

Concrete Structures

- Pedestrian Bridge - Evaluation of and repair recommendations for early-age cracking in concrete bridge deck
- Crowne Plaza - Denver, CO: Condition assessment of parking structure and post-tensioned element distress
- Welton Street Garage - Denver, CO: Condition assessment of parking structure and distress
- Milestone DTC - Denver, CO: Presale assessment of parking structure and creation of repair documents.
- T. Rowe Price - Colorado Springs, CO: Assessment and investigation of distressed concrete slab-on-ground plaza

Construction Materials

- Denver Health - Denver, CO: Investigation of grouted joints in a precast concrete structure and repair observations
- One Belleview Station - Denver, CO: Investigation of grouted joints in a precast concrete structure and repair observations
- South Lawrence Trafficway - Lawrence, KS: Evaluation and assessment of concrete drilled shaft material placement issues and postconstruction condition*

Instrumentation/Monitoring/Load Testing

- Curling and Warping in Concrete Pavements - Iola, KS: Instrumentation and strain analysis of cyclic and permanent deformations of concrete pavements; evaluation of internal curing and the ability to mitigate curling and warping*

**Indicates with previous firms*