PERSONNEL QUALIFICATIONS



James Gordon | Associate III



EDUCATION

- Oklahoma State University
 - Bachelor of Science, Civil Engineering, 2020
- Oregon State University
 - Master of Science, Civil Engineering, 2022

PRACTICE AREAS

- Structural Analysis
- Steel Structures
- Bridges and Civil Infrastructure
- Fire Damage Assessment
- Litigation Support

REGISTRATIONS

- Engineer-in-Training in TX
- Society of Professional Rope Access Technicians, Level 1 Technician

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction
- American Welding Society
- Structural Engineers Association of Texas
- Structural Stability Research Council

CONTACT

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EXPERIENCE

James Gordon is engaged in the evaluation and rehabilitation of new and existing structures. His experience includes advanced structural analysis for a range of structure types, the assessment, design and repair of steel structures and civil infrastructure, assessment of fire-damaged structures, and litigation support.

Before joining WJE, Mr. Gordon was a graduate research assistant at Oregon State University where he developed modeling techniques to simulate the behavior of steel structures exposed to fire. This work mostly consisted of developing temperature-dependent connection models and testing the strength of fire-exposed steels under different exposure characteristics. Mr. Gordon's previous experience gives him a unique skill set that is applicable to analyzing all types of complex structural systems.

REPRESENTATIVE PROJECTS

Structural Analysis

- Skillman Arch Bridge Dallas, TX: Erection engineering services focused on the development of cable tensioning sequence for network arch system
- Barbours Cut Terminal Wharfs 5 and 6 La Porte, TX: Strengthening of container wharf to support new, larger STS cranes in hurricane region
- Mass Timber Truss Lakeway, TX; Analysis of newly constructed mass timber trusses to evaluate distress and serviceability concerns

Bridges and Civil Infrastructure

- Light Rail Concrete Plinth Assessment -Seattle, WA: Physical testing and statistical analysis of nylon inserts in concrete dual blocks
- City of Beaumont Bridges TX: Assessment, repair design, and construction period services for thirteen concrete bridges
- US 190 Steel Bridge Temple, TX: Inspection, repair design, and repair installation of fatigue cracks in steel bridge
- IWGO Steel Bridge New Orleans, LA: Design of jacking hardware for various bridge repairs; analysis and installation of weld retrofits

Fire Damage Assessment

- San Antonio Y TX: Evaluation and development of repair recommendations for fire-damaged precast, post-tensioned concrete box girder bridge segments
- Sand Processing Plant San Antonio, TX:
 Structural assessment of fire damage to steel structure at sand processing plant and development of associated repair recommendations

Steel Structures

- Nitrogen Fertilizer Plant Coffeyville, KS:
 Assessment, repair design, and construction period services for deteriorated conveyor support structure at fertilizer plant
- Clarifier Support Structure Mesa, AZ:
 Assessment, coatings testing, and repair design of steel support framing at two clarifier units within water reclamation plant
- Westlake Epoxy Plant Deer Park, TX:
 Assessment and repair recommendations for rehabilitation of steel structure

Litigation Support

- Factory Catwalk Central Texas: Litigation support for structural construction and design defects
- Cofferdam Failure investigation and litigation support - Cougar, WA: Failure investigation of temporary cofferdam

