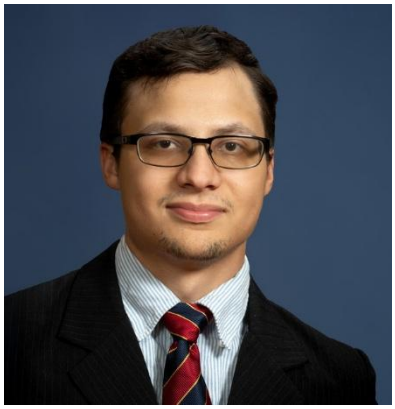
PERSONNEL QUALIFICATIONS

Jacob G. Starks | Associate II



EDUCATION

- University of Oklahoma
  - Bachelor of Science, Civil Engineering, 2022
  - Master of Science, Civil Engineering, Structural Emphasis, 2023

PRACTICE AREAS

- Precast/Prestressed/Post-Tensioned Concrete
- Bridges and Civil Infrastructure
- Failure/Damage Investigations
- Concrete Structures
- Repair and Rehabilitation
- Foundations and Retaining Walls

REGISTRATIONS

- Engineer in Training in TX

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- Structural Engineering Institute of Texas (SEAoT)

TECHNICAL COMMITTEES

- ACI 423 - Prestressed Concrete
- ACI 423E - Prestress Losses

CONTACT

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EXPERIENCE

Jacob Starks joined WJE in 2023 and has worked on a variety of projects on parking garages, bridges, and foundations. His projects have concentrated on assessment and repair of concrete structural and foundation systems, involving structural analysis, load testing, nondestructive testing, and laboratory sampling and testing.

Prior to joining WJE, Mr. Starks completed his graduate degree with an emphasis on specialty cement concrete mix design, prestressed concrete, and slab-on-ground foundation systems.

REPRESENTATIVE PROJECTS

Precast/Prestressed/ Post-Tensioned Concrete

- Corporate Office Parking Garage - Westlake, TX: Structural condition assessment, nondestructive testing, load testing, and monitoring of prestressed members
- Office Building Parking Garage - Dallas, TX: Structural condition assessment, repair design, and construction period services

Bridges and Civil Infrastructure

- Margaret Hunt Hill Bridge - Dallas, TX: Assessment of fatigue-related distress and remediation observations
- City of Dallas Bridges - TX: Annual assessment, repair design, and construction period services

Failure/Damage Investigations

- First Baptist Dallas - Dallas, TX: Assessment of historic masonry after structural collapse due to a fire
- USPS Post Office - Sulphur, OK: Assessment of partially collapsed early-1900s post office after a tornado
- Corporate Office Building - McKinney, TX: Investigation of adhered veneer masonry distress

Concrete Structures

- Ventana by Buckner Parking Garage - Dallas, TX: Litigation support services and investigation of concrete framing cracks and water infiltration
- Cistercian Preparatory School - Irving, TX: Structural condition assessment and repair cost estimate for redevelopment project

Repair and Rehabilitation

- Maypearl Elementary School - Maypearl, TX: Evaluation of structural wood flooring and crawlspace distress
- Ben E. Keith Distribution Warehouse - Dallas, TX: Evaluation and repair design for steel framing load capacity
- City Community Center - Temple, TX: Evaluation of existing mixed wood roof framing systems

Foundations and Retaining Walls

- Commercial Parking Garage - Frisco, TX: Assessment of settlement at partially constructed parking garage
- Airport Aircraft Fire Station - OK: Assessment and litigation support services for foundation movement
- Laboratory Facility - Bryan, TX: Assessment and litigation support services for foundation movement
- DFW Logistics Hub - Irving, TX: Nondestructive evaluation of foundation pier reinforcement
- Residential Apartment Retaining Walls - San Antonio, TX: Review and investigation of retaining wall distress and backfill settlement