

JEFFREY A. TEDDER, P.E.
Construction Civil Engineer

ENGINEERING AND CONSTRUCTION EXPERIENCE PROFILE

Heavy/Civil Construction

- Selective Demolition: pre-demolition surveys, differing site conditions, utility LOTO
- Concrete structures: self-perform, sub-contracted, water retaining, shoring, re-shoring, defects
- Underground Utilities: trench safety, shoring, pipe laying, excavation
- Cranes: hydraulic, friction, crawler, rough terrain, tower crane, critical pick, rigging
- Earthwork: mass excavation, backfill, grading, cuts and fills, dewatering, erosion, and sedimentation control
- Support of Excavation: sheet pile, pile and lagging, rock anchors, tiebacks
- Deep Foundations: steel pipe pile, steel H-pile, auger-cast pile, micro-pile, helical anchors
- Paving: asphalt, concrete, curb, and gutter
- Process Mechanical: pumps, blowers, piping, chemical processing, and conveyance
- Conveyance Equipment: belt conveyors, screw conveyors, solids handling
- Integrated Automation: plant instrumentation and controls systems
- Electrical: power distribution, grounding, lightning protection, emergency generation
- Treatment Plant: pre-construction through start-up and commissioning

General Construction

- Selective demolition and renovation, asbestos abatement, lead paint abatement
- Concrete: shallow foundations, flatwork, architectural and structural precast
- Masonry: single wythe, double wythe, brick veneer, load bearing CMU walls, split face
- Metals: structural steel, steel joist systems, stair systems, hand railing, access platforms, architectural metals
- Wood: wood framing, roof and floor truss systems, finish carpentry, millwork
- Roofing: low-sloped roofs, steep sloped roofs, asphalt shingle, standing seam, membrane
- Openings: doors & windows, storefront, translucent panels, louvers
- Finishes: drywall, paint, flooring (carpet, tile, VCT), ceramic tile, suspended ceiling systems, chemical resistant coatings, fire caulking, caulking
- Special Construction: Pre-Engineered Metal Buildings, Laboratories
- Building Mechanical: plumbing, HVAC (heating, ventilating, and air conditioning)
- Fire Suppression: wet pipe, dry pipe, pre-action, deluge, water, foam
- Electrical: power distribution, lighting
- Construction Equipment/Systems/Procedures: scaffold systems (suspended, supported, movable "Baker" scaffolds), fall protection systems, personal protective equipment (PPE), ladders and temporary stairways (including job-built ladders), trench excavation and support systems, lock-out tag-out (LOTO), materials storage and handling, hand and power tools, welding and cutting, material and personnel hoists, steel erection, blasting, hazardous substances, excavation equipment, forklifts, boom and scissor lifts, cranes & rigging

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Project Management

- Construction site safety and health program management
- CPM Scheduling: Primavera P6, Microsoft Project, development, updates, evaluation
- Cost Estimating: hard bid, alternative delivery Guaranteed Maximum Price
- Value Engineering
- Delay Claims
- Contract Negotiation
- Change Order Management
- Cost and Productivity Control
- Quality Control Management: construction defect and failure analysis, remediation planning
- Permitting: NPDES storm water permitting, local jurisdictional, building occupancy, Fire Marshall

Special Projects

- Wastewater Treatment: full plant replacement, process upgrades, preliminary through tertiary treatment
- Water Treatment: in-river intake, membrane filtration
- Large Utility Piping: ductile iron, spiral weld steel, pre-cast concrete, up to 108" diameter
- Complex plant bypass pumping operations
- Complex work sequencing to maintain facility operations
- Remediation of chromium contaminated soils
- Storm water capture of PCB contaminated soils

PROFESSIONAL EXPERIENCE

- 2021 to present **Robson Forensic, Inc.**
Associate
Provide technical investigations, analysis, reports, and testimony toward the resolution of commercial claims and personal injury litigation involving construction practices and construction project management, estimating and scheduling, delay claims, construction site safety practices, quality control and quality assurance, and other civil engineering issues in the heavy, industrial, commercial, and residential construction industries.
- 2021 **IHC Construction Companies, LLC**
Project Manager
Project manager in charge of multiple concurrent public works construction projects in various stages of completion in the greater Atlanta area. Responsible for the safety, CPM schedule, quality, and budget for each project. As general contractor, IHC self-performed sitework, utilities, and process mechanical work as well as subcontracted and managed the efforts of deep foundation, concrete, electrical, building architectural (framing, roofing, finish carpentry, doors, windows, drywall, paint, flooring, finishes, etc.), and building mechanical work. Responsibilities included the completion of punch-list and warranty repairs of defective work from previously completed projects.

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2018 to
2021 **The Lane Construction Corporation**
Project Manager

Project manager in charge of two concurrent public works construction projects valued at \$57 MM in Columbus, GA and Knoxville, TN. Responsible for all aspects of the projects including the safety, CPM schedule, quality, and budget for both projects. As general contractor, Lane self-performed sitework, utilities, and process mechanical work as well as subcontracted and managed the efforts of demolition, deep foundation, concrete, electrical, building architectural (framing, roofing, finish carpentry, doors, windows, drywall, paint, flooring, finishes, etc.), and building mechanical work. Construction operations included the planning, implementation, and management of complex large scale facility bypass operations to maintain plant operation during construction.

2016 to
2017 **Slayden Constructors (an Affiliate of MWH Constructors)**
Senior Project Manager/Construction Manager *2016-2017*

In charge of the construction of a new water treatment plant for the City of Lebanon, OR (\$27MM). Responsible for all aspects of the project including the safety, CPM schedule, quality, and budget. As Construction Manager/General Contractor (CM/GC) collaborated with the Engineer of Record and Owner to Value Engineer the project within the Owner's scope and budget and negotiated the Guaranteed Maximum Price (GMP). Self-performed work included sitework, concrete, utilities, and process mechanical. Subcontracted work included concrete reinforcing, electrical, pre-manufactured metal building, building architectural (framing, roofing, finish carpentry, doors, windows, drywall, paint, flooring, finishes, etc.), and building mechanical. Construction operations included the planning, permitting, implementation, and management of complex installation of an in-river water intake structure. Value Engineered the project from \$34MM to \$27MM.

Pre-Construction Manager *2016*

Managed the Builder's efforts for the Design Build team on a wastewater plant project to assist the City of Klamath Falls, Oregon in developing the project scope. Helped develop the proposal to advance the approx. \$35MM project to Phase 1B project design.

2013 to
2016 **Archer Western Contractors**
Project Manager *2014-2016*

Directed and managed the construction activities of the \$263 Million Back River WWTP Denitrification Filtration Upgrades project (SC877). Supervised and mentored a staff of (12) including (8) project engineers. Responsible for all aspects of the project including safety, CPM schedule, quality, and budget. Negotiated owner change orders in excess of \$12MM and time extension requests of 33 calendar days. As general contractor, Archer Western self-performed sitework, concrete, utilities, and process mechanical work as well as subcontracted and managed the efforts of demolition, deep foundation, concrete reinforcement, electrical, building architectural (framing, roofing, finish carpentry, doors, windows, drywall, paint, flooring, finishes, etc.), and building mechanical work. Construction operations included the excavation of 50,000 CY of earth, the placement of 70,000 CY of concrete, and the installation of large bore buried piping as large as 108 inches in diameter.

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Assistant Project Manager

2013-2014

As assistant project manager on the Back River WWTP SC877 project, supervised the efforts of the 8-member project engineering team. Responsible for safety, CPM scheduling, quality, project engineering, and change order management.

2012 to
2013

American Contracting & Environmental Services

Project Manager

Project Manager in charge of three concurrent public works projects with a combined value of \$22 Million within the Baltimore metropolitan area. Responsible for all aspects of the projects including the safety, CPM schedule, quality, project engineering, and budget for the projects. As general contractor, ACE self-performed sitework, utilities, and process mechanical work as well as subcontracted and managed the efforts of deep foundation, concrete, electrical, building architectural (framing, roofing, finish carpentry, doors, windows, drywall, paint, flooring, finishes, etc.), and building mechanical work. ACE also served as the process mechanical subcontractor for The Christman Company on a wastewater upgrade project in Alexandria, VA.

2005 to
2012

Fru-Con Construction, LLC. (A Balfour Beatty Company)

Engineering Manager

2009-2012

Directed and managed the engineering activities for two (2) simultaneous projects (SC 852R & SC 855) on the Patapsco Wastewater Treatment Plant contracted at \$138 million. Supervised the efforts of the 5-member project engineering team. Responsible for safety, CPM scheduling, quality, project engineering, and change order management. As general contractor, Fru-Con self-performed sitework, concrete, utilities, and process mechanical work as well as subcontracted and managed the efforts of deep foundation, electrical, building architectural (framing, roofing, finish carpentry, doors, windows, drywall, paint, flooring, finishes, etc.), and building mechanical work.

Mechanical Project Engineer

2007-2009

Project Engineer primarily responsible for management of the process mechanical portion of the \$136MM Arlington Wastewater Treatment Plant phase 7A project. Responsible for safety, CPM scheduling, quality, project engineering, change order management, and subcontractor management for the mechanical scope of the project. As general contractor, Fru-Con self-performed sitework, concrete, utilities, and process mechanical work as well as subcontracted and managed the efforts of deep foundation, electrical, building architectural (framing, roofing, finish carpentry, doors, windows, drywall, paint, flooring, finishes, etc.), and building mechanical work.

Project Engineer

2005-2007

Project Engineer responsible for management of the project engineering portion of the \$30MM + Kent Narrows wastewater treatment plant project in Stevensville, MD. Responsible for safety, CPM scheduling, quality, project engineering, change order management, and subcontractor management for the project. As general contractor, Fru-Con self-performed sitework, concrete, utilities, and process mechanical work as well as subcontracted and managed the efforts of concrete reinforcement, electrical, building architectural (framing, roofing, finish carpentry, doors, windows, drywall, paint, flooring, finishes, etc.), and building mechanical work.

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2004 **Arrington Engineering and Land Surveying**
Land Development Civil Design Engineer
Engineer responsible for completing design drawings and other related documentation for various commercial and residential land development projects, and preparation and submission of client documentation for state stormwater permits under the EPA National Pollutant Discharge Elimination Systems (NPDES).

PROFESSIONAL CREDENTIALS

Professional Engineer: Alabama, Arkansas, Colorado, Florida, Georgia, Illinois, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Texas
OSHA-30 Hour Construction Safety and Health

EDUCATION

B.S., Civil Engineering, The University of Alabama, Tuscaloosa, AL

CONTINUING EDUCATION

Confined Space Competent Person, 2022
Scaffolding Safety for Competent Person, 2022
Excavations for Construction Competent Person, 2022
Fall Protection for Construction Competent Person, 2022
Target Zero Injuries – Developing a Comprehensive Safety Program for Engineers and Constructors, 2022
FMI Leadership Institute, 2017
C4 Hazwoper Supervisor, 2017
Adult CPR, AED, and First Aid, 2016
Adult CPR and AED, 2014
NSC First Aid Course – Standard, 2014
Confined Space Competent Person, 2012
Scaffold and Ladder Competent Person, 2012

PROFESSIONAL MEMBERSHIPS

ASCE (American Society of Civil Engineers)
• Construction Institute