

MATTHEW L. WAGNER, S.E.

Senior Project Engineer



+CONTACT

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Matt Wagner is a licensed structural engineer with 17 years of structural engineering experience in structural design, evaluation, analysis, condition assessment, and constructability peer review for a wide range of building types. With a decade of structural facility design experience, he has managed and led the design of numerous large-scale aviation, healthcare, hospitality, civic, entertainment complexes, and stadium projects.

His structural engineering knowledge includes expertise in the design of steel, concrete, precast concrete, masonry, and heavy timber structures. In addition to his structural design and analysis capabilities, he is skilled in project development, cost estimating, scheduling, staff planning, building information modeling, and document production.

Prior to RRJ, he was Manager of Structural Engineering at Ghafari Associates' Chicago office, a global architecture and consulting engineering firm specializing in technically intensive market sectors.

Previously, he was a Principal at Walter P Moore, an international engineering consulting practice. In this role, he led the structural design of numerous projects ranging in size from \$10 million to \$70 million. He served as chair and a member of task force committees responsible for enhancing the firm's operational standards and construction administration process across multiple offices.

■ EDUCATION

Master of Science in Civil Engineering, 2001
 Georgia Institute of Technology

Bachelor of Science in Civil Engineering, 1999
 University of Cincinnati

■ REGISTRATIONS

Licensed Structural Engineer in Illinois

Licensed Professional Engineer in California, Colorado, Georgia, and Texas

Certified Project Manager
 State of Illinois, Capital Development Board

■ PROFESSIONAL AFFILIATIONS

Structural Engineers Association of Illinois (SEAOI)
 Trade Show | Symposium Committee, Chair

American Institute of Steel Construction (AISC)

American Concrete Institute (ACI)
 Committee 360 - Design of Slabs on Ground
 Committee 544 - Fiber-Reinforced Concrete

Chicago Building Congress (CBC)
 Future Leaders Committee

University of Cincinnati, Chicago Alumni Network
 Co-Chair

■ AWARDS | HONORS

Chi Epsilon—National Civil Engineering Honor Society

University of Cincinnati, Chicago Alumni Network
 Distinguished Service Award, 2018

■ PRESENTATIONS | PUBLICATIONS

"Design Considerations for Rail Post Anchorage Into Concrete," *The Construction Specifier*, R.C. Haukohl, B. Lipinski, M.L. Wagner, June 2019

"Concrete Shoring: Understand and Plan for Stiffness Compatibility Issues," Structural Engineers Association of Illinois (SEAOI) Chicago Trade Show and Symposium, March 1, 2019

"Optimizing Integrated Design / Construction Project Delivery," *Area Development*, 2016

"Saudi Aerospace Engineering Industries Major Repair & Overhaul Facility in Jeddah," Structural Engineers Association of Illinois (SEAOI) Structures Symposium, November 6, 2013

"Buildings Move: Expansion Joints and Such," American Institute of Architects, Dallas Chapter, April 10, 2012



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■ PROJECT EXPERIENCE

Structural Evaluation | Condition Assessment

Argonne National Laboratory, Lemont, Illinois:
Water Storage Tanks Structural Condition Assessment

Constructability | Peer Review Consulting

Tocumen International Airport, Panama City, Republic of Panama: Constructability consulting for new South Terminal Building Roof

600 North Lakeshore Drive Condominiums, Chicago, Illinois: Peer review of remediation construction of the concrete and floor membrane distress

TAO Chicago, Chicago, Illinois: Constructability consulting for adaptive reuse of 1890s Chicago Historical Society building into a restaurant

Chicago Department of Aviation, Capital Improvement Program (CIP) for Midway and O'Hare International * Airports, Chicago, Illinois: Structural engineering design and peer review services for airport capitol improvements and facility maintenance projects

Rehabilitation | Renovation | Repair Design

600 North Lakeshore Drive Condominiums, Chicago, Illinois: Concrete and membrane repair design of existing high-rise tower balconies

Abu Dhabi International Airport, Terminal A380 * Expansion, United Arab Emirates: \$23 million; Structural design of terminal addition

American Airlines, LGA Hangar 3-5 Door * Replacement, Flushing, New York: Structural evaluation and design to modify original hangars to accommodate 757 aircrafts

Global Life Ballpark in Arlington, Arlington, Texas: ** Structural modifications and additions to Texas Rangers baseball park

Lockheed Martin, Hangar B78, Dobbins Airforce Base, * Georgia: \$3 million; Structural repair of 60,000 square foot military airport hangar

Olsen Field at Blue Bell Park, Texas A&M University, ** College Station, Texas: \$24 million; Baseball stadium expansion of 5,400 seats

Structural Design

Tocumen International Airport, South Terminal Building, Panama City, Republic of Panama

Canopy: Structural design of 200 meter (650 foot) long canopy along the upper vehicular drive drop off zone

One Stop Security Building: Structural design of One Stop Security Structures providing direct access from fixed bridges to the security screening area below the main concourse

Abu Dhabi International Airport, Technology Center, * United Arab Emirates: Structural Design for a 6,200 square meter Tier III data center that monitors and controls the airport's airside, landside and terminal operations. Project never built.

Circuit of the Americas, Main Grandstand, Austin, Texas: \$30 million; Gravity analysis and structural design detailing of elevated steel grandstand structure for this grade 1 FIA specification racing facility **

Collin County Courthouse Addition, McKinney, Texas: ** \$47 million; Structural design of 170,000 square foot courthouse addition

Paris Regional Medical Center, Paris, Texas: ** \$15 million; Structural design of 30,000 square foot expansion to an existing hospital

Palazzo Resort Hotel & Casino, Las Vegas, Nevada; ** \$1.9 million; 7.5 million square feet resort development, 50-story, 3,000-room hotel and casino

Tiger Stadium, South End Zone Expansion, Louisiana ** State University, Baton Rouge, Louisiana: \$70 million; End zone expansion with 6,000 seats and 60 suites

University of Texas at Arlington, College Park Center, ** Arlington, Texas: \$78 million: 225,000 square foot multi-purpose arena, totaling 7,000 seats

Woodward, Inc., Lincoln, Fort Collins, Colorado * \$120 million; Manufacturing facility at corporate campus

Woodward, Inc. Rock Cut Campus, Loves Park, Illinois: * \$100 million; 450,000 square foot aerospace manufacturing facility

* Experience while associated with Ghafari Associates

** Experience while associated with Walter P. Moore