



EDUCATION

- University of Kentucky
 - Bachelor of Science, Civil Engineering, 2003
- University of Illinois at Urbana-Champaign
 - Master of Science, Structural Engineering, 2004

PRACTICE AREAS

- Repair and Rehabilitation Design
- Concrete Structures
- Steel Structures
- Parking Structures
- Waterproofing
- Failure/Damage Investigations
- Construction Troubleshooting

REGISTRATIONS

- Professional Engineer in ND and WI
- Structural Engineer in HI, IL, and NE

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- American Society of Civil Engineers (ASCE)
- Post-Tensioning Institute (PTI)
- Structural Engineers Association (SEA)

TECHNICAL COMMITTEES

- PTI CRT-60: Repair, Rehabilitation, and Strengthening Field Personnel Certification
- PTI DC-80: Repair, Rehabilitation, and Strengthening Committee, chair

EXPERIENCE

Tracy Naso specializes in the investigation and repair of structures. Her emphasis is on reinforced concrete systems, including conventional, post-tensioned, prestressed, and antiquated systems. She has extensive experience with a wide variety of structures, including high-rise towers, parking structures, plazas, pools, tunnels, and stadiums. Ms. Naso also investigates failures and collapse due to storms, fire, extreme events, and structural deficiency. She is experienced with available methods of nondestructive testing and sampling to establish properties of existing structures and has developed expertise in the selection of strengthening, repair, and waterproofing methods and materials. Ms. Naso designs repairs for the remediation, strengthening, and protection of new and existing structures, develops construction documents, and provides construction period observation and administration services for the implementation of those designs.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation Design

- Northwestern University Utility Tunnels - Evanston, IL: Condition assessment and restoration program for one-hundred year old tunnel system
- Olympia Centre - Chicago, IL: Development of nonlinear inelastic analysis computer model to determine structural behavior and structural repair design to address shear failure of multiple transfer girders in a sixty-four-story reinforced concrete structure
- 400 East Randolph - Chicago, IL: Repair and renovation of reinforced concrete pool and geodesic glass and metal dome structures
- Warehouse Conversion - Chicago, IL: Evaluation of existing historic masonry and concrete structure for reuse for offices and the addition of new floor

Concrete Structures

- International Airport - FL: Condition assessment and repair of elevated concrete guideway for Automated People Mover system
- University of Nebraska, Memorial Stadium - Lincoln: Condition assessment and repair for ongoing stadium rehabilitation work

- North Dakota State University - Fargo: Condition assessment; structural and waterproofing repair design for utility tunnel system

Parking Structures

- Hospital Parking Garage - Hoffman Estates, IL: Assessment of structural cracking, investigation of failure of structural connectors and sealants, and evaluation of deficient materials in ten-year-old precast/prestressed concrete parking structure
- Baxter Healthcare - Deerfield, IL: Annual assessment and repair of steel-framed parking structures
- Corporate Headquarters - Milwaukee, WI: Condition assessment and repair of post-tensioned concrete parking structure, modification of structure for new exit, and comprehensive review of wayfinding system

Waterproofing

- Commercial Building - Chicago, IL: Investigation and repair of roof waterproofing failure in one-year old building
- Trustmark Insurance Headquarters - Lake Forest, IL: Plaza restoration and improvements
- Residential High-Rise - Milwaukee, WI: Investigation of structural deterioration and extensive leakage in recently repaired plaza, repair design, and litigation support

Failure/Damage Investigations

- Optima Horizons - Evanston, IL: Assessment and strengthening of reinforced concrete floors exhibiting excessive deflection, cracking, and punching shear distress
- Commercial Building - Chicago, IL: Determination of cause of failure of structural connections between precast structural members in three-year-old building
- Grocery Store Roof Collapse - Brookfield, WI: Investigation of collapse and repair of steel truss roof

CONTACT

tnaso@wje.com
312.372.0555
www.wje.com