

NONDESTRUCTIVE TESTING

CAPABILITIES STATEMENT



Fickett Structural Solutions, Inc., is a Small Business Enterprise (SBE) offering a dependable team of Nondestructive Testing (NDT) Technicians and Quality Assurance (QA) Specialists ready to support our clients' NDT needs. With decades of experience, our team has American Welding Society (AWS)-certified weld inspectors (CWIs) and ASNT Level II and Level III NDT Technicians in Magnetic Particle (MT) and Ultrasonic (UT) methods to provide the required inspection services for your structures.

Nondestructive Testing

Ultrasonic Testing

UT is routinely used for the inspection and assessment of structural welds, bridge pins, hanger assemblies, and anchor bolts to determine structural soundness, defects, or deterioration. UT uses high-frequency sound waves to detect internal flaws in steel without causing damage.

Magnetic Particle

MT is a method used to detect surface flaws in ferromagnetic materials. Our specialists routinely use MT in steel fabrication shops as well as at project sites to further analyze welded connections for compliance with applicable codes or to verify suspected cracking.

Fickett's Holistic Approach to Structural Integrity

Coatings Inspections

A coatings inspector understands the fundamentals of surface preparation and application of protective coatings on steel structures, as well as containment and field safety hazards. Our inspectors use these skills to inspect new steel painted in the fabrication shop, in the field, or maintenance systems applied in the field.

Rope Access

One of the things that sets Fickett apart is our ability to deploy NDT Technicians who also hold Society of Professional Rope Access Technicians (SPRAT) certifications, enabling safe and efficient access to hard-to-reach areas without the need for costly or intrusive access methods such as under-bridge inspection units, lifts, or scaffolding. This dual qualification dramatically reduces inspection setup times and improves worker safety.

Fickett's NDT team supports Routine and Special Inspections under National Bridge Inspection Standards (NBIS) guidelines, as well as complex rehabilitation and emergency response assessments. Our experience with ultrasonic testing is particularly valuable for:

- Crack sizing and flaw detection in fatigue-sensitive details
- Pin and hanger assembly assessments
- Weld inspection and verification
- Condition assessments of Nonredundant Steel Tension Member (NSTM) components in accordance with Federal Highway Administration (FHWA) and American Association of State Highway Transportation Officials (AASHTO) requirements

Whether integrated into a broader inspection program or deployed as a stand-alone service, our NDT capabilities are a key asset in ensuring the safety, durability, and longevity of all steel structure types.

Current Engineering Firm Clients: AECOM, Consor, GPI, HDR, Jacobs, Michael Baker, Tetra Tech, WJE Associates, Inc.

Current USACE Districts: Rock Island (IDIQ), St. Paul, Buffalo, Seattle, Portland

Contact

Corporate Headquarters

8383 Greenway Blvd
STE 220
Middleton, WI 53562
608.831.3238

Milwaukee, WI

4811 South 76th Street
STE 414
Greenfield, WI 53220
608.831.3238

Nashville, TN

220 Great Circle Rd
Unit 120
Nashville, TN 37228
608.831.3238

Olympia, WA

2840 Crites St. SW
STE 108
Tumwater, WA 98512
360.214.5759

Portland, OR

225 SW Broadway
STE 301
Portland, OR 97205
608.831.3238