Our Nondestructive Evaluation (NDE) tools let us look beneath a structure’s visible exterior to develop solutions that work. NDE reveals as-built conditions, deterioration and defects, such as cracks, voids and corrosion, without significantly damaging the tested object. By leaving the structure generally intact, we can vastly reduce costs for potential disruptions to the owner. When you need to determine the as-built construction or evaluate the current integrity of an existing structure, Walter P Moore uses the right mix of NDE methods to complement our comprehensive evaluations.
SHORT PULSE OR GROUND PENETRATING RADAR (GPR)
› Locates reinforcing steel, discontinuities and other items embedded in concrete, and flaws such as voids, honeycombing and debonding
› Determines the presence of grout in concrete masonry units (CMU)

HALF-CELL POTENTIAL
› Determines the probability of corrosion of reinforcing steel in concrete

GALVANOSTATIC PULSE
› Determines the rate of corrosion of reinforcing steel in concrete

ULTRASONIC PULSE VELOCITY (UPV)
› Determines the relative condition of concrete based on the travel time of an ultrasonic pulse through a specified length of concrete

IMPULSE RESPONSE
› Determines the relative condition of concrete and support conditions and the probability of internal delaminations and/or voids in the concrete
› Determines the length and presence of discontinuities in concrete piles

INFRARED THERMOGRAPHY
› Locates air or water leakage in the building envelope, locates termite infestation, determines presence of grout in CMU walls, and determines bonding issues in fiber reinforced polymer (FRP) laminates

IN-LINE CABLE TENSION
› Determines the tension in wire rope, cable and prestressing strands by using a proximity sensor to sense the natural frequency of a cable that spans a known distance between two connection points

ULTRASONIC THICKNESS
› Determines the remaining thickness of corroded steel members

BORESCOPE
› Locates the presence of cavities behind objects to be preserved and allows for visualization of hard-to-see details
WHAT WE DO

Walter P Moore is an international company of engineers, innovators, and creative people who solve some of the world’s most complex structural and infrastructure challenges. Providing structural, diagnostics, civil, traffic, parking, transportation, enclosure, and construction engineering services, we design solutions that are cost- and resource-efficient, forward-thinking, and help support and shape communities worldwide. Founded in 1931 and headquartered in Houston, Texas, our 600+ professionals work across 18 U.S. offices and five international locations.