

BRIDGE HIGHWAY + RAIL





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ABOUT US

McLaren, a Division of KCI, is a leading full-service engineering firm renowned for its trusted, high quality, and innovative approach to solving complex challenges. With industry experts in multiple technical disciplines, our team has provided customized solutions for over 20,000 projects through consultation, design, inspection, and construction management. With over four decades of experience, a staff of 200+, and 11 offices worldwide, McLaren addresses every project's specific needs with technical excellence and creative innovation.



GERARD BARTUCCI, PE
Practice Leader - Bridge
Highway + Rail
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CORE TECHNICAL DIVISIONS

STRUCTURAL | CIVIL + SITE | MARINE + COASTAL | BRIDGE, HIGHWAY + RAIL

ENTERTAINMENT | GEOTECHNICAL | FACADE + BUILDING ENVELOPE

CONSTRUCTION ENGINEERING | FORENSICS | SURVEY + MAPPING



BRIDGE, HIGHWAY + RAIL ENGINEERING

McLaren's infrastructure engineering division offers full-service solutions for a variety of bridge, highway, and rail projects. Supporting both public and private clients, we provide design, analysis, and inspection services for infrastructure projects of all sizes shapes, and scopes.

From long span river crossings to highway overpasses, railway bridges to secondary road structures, bridge inspection programs to retaining walls, appurtenant works and everything in between, McLaren can provide technical excellence and management expertise on any infrastructure project.

Although our firm is best known for iconic infrastructure engineering around the nation, we are also the experts behind the engineering of local streets, pedestrian bridges, appurtenant structures and culverts.

DESIGN + DESIGN-BUILD
(ALTERNATIVE PROJECT DELIVERY)

INSPECTIONS + CONDITION
ASSESSMENTS

REHABILITATION + MAINTENANCE

CULVERTS + DAM STRUCTURES

DESIGN-BUILD PROJECTS—
HIGHWAY, RAIL, RAIL-TRAILS

BRIDGE DESIGN –
ROADWAY, RAIL, PEDESTRIAN,
UTILITY

OVERHEAD SIGN STRUCTURE
DESIGN

ROADWAY DESIGN

RAILWAY DESIGN

GRADING + DRAINAGE DESIGN

UTILITY DESIGN

WZTC/MPT DESIGN

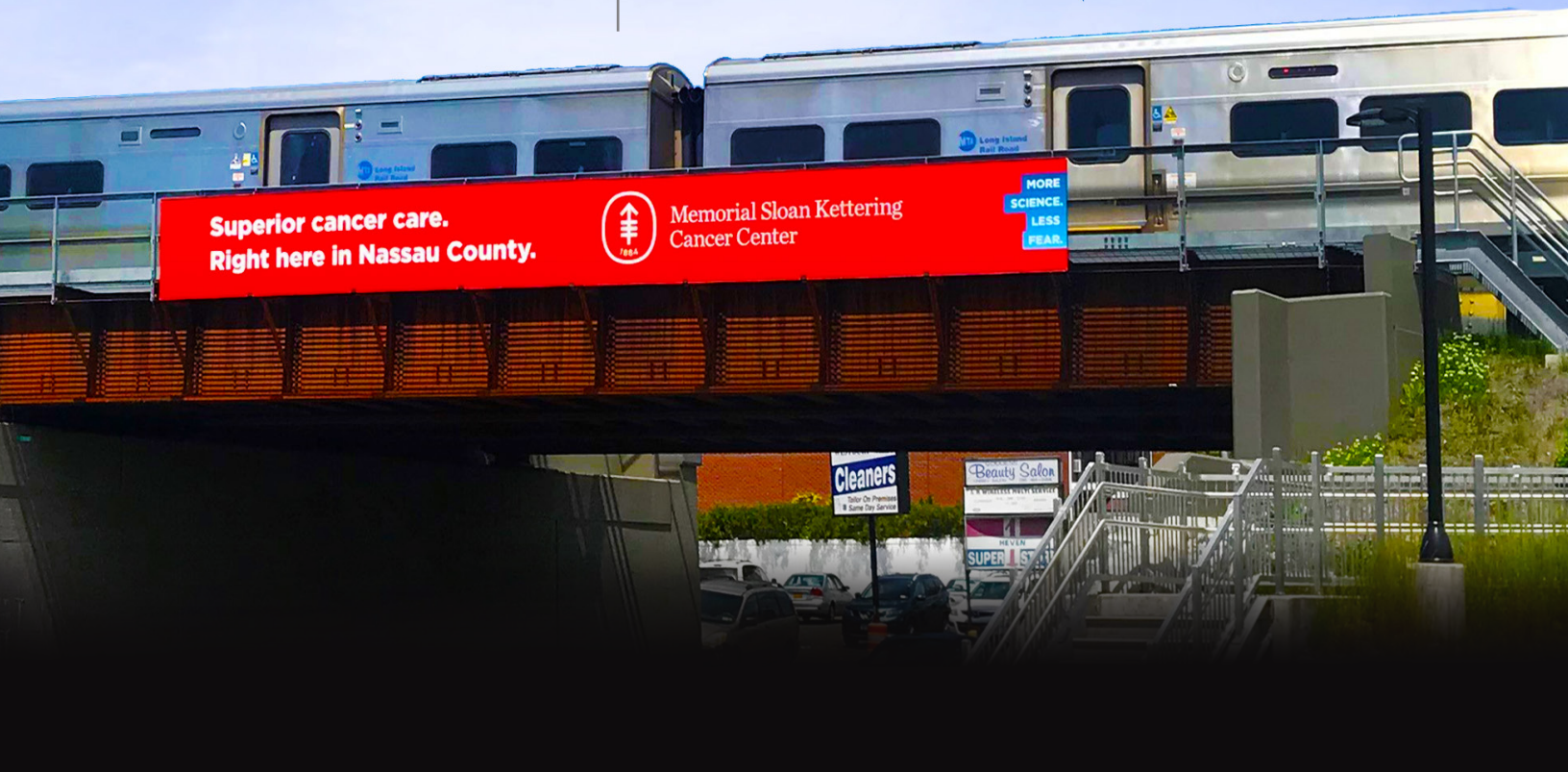
UTILITY STRUCTURE DESIGN
-- UNDERGROUND VAULTS,
MANHOLES, TIDE GATE
STRUCTURES, PIPELINES

SHEETING + SHORING DESIGN

PARK STRUCTURE DESIGN – RAIL-
TRAILS, WALLS, GATES, FENCES

DESIGN + DESIGN BUILD ALTERNATIVE DELIVERY

Our team is routinely called upon to complete design builds and comprehensive services for all phases including project scoping, preliminary design, final design, construction support services, and construction inspection services. We are known throughout the industry for our innovative public infrastructure design and development of bridges, roadways, and railroads using state--of-the-art 3D modeling.



LIRR Post Avenue Bridge Replacement

PROJECT HIGHLIGHTS



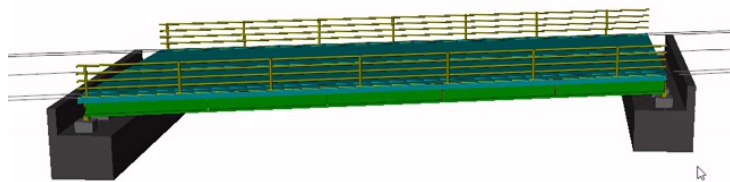
Maybrook Rail Trail



Montgomery County Parks Pedestrian Bridges



CTDOT Monroe Street Bridge



Grassy Point Design 3D Modeling



I-390/I-490/Route 31 Interchange



Urban Aerial Gondola Designs

INSPECTIONS + CONDITION ASSESSMENTS

McLaren's infrastructure inspection teams are available to assess conditions, file state and federal inspection reports, and most importantly, use our system of computerized management tools to compile assembled inspection data and focus on the prioritization of deficient elements.

Our bridge inspection staff are NHI, NBIS, NICET, NACE, and SPRAT certified and employ access techniques ranging from hard-hat diving to abseiling – meaning no aspect of a bridge inspection will go unreached. In short, our engineers are trained, experienced, and prepared to provide services through all aspects of any project.

INFRASTRUCTURE
INSPECTIONS + STUDIES

TRANSPORTATION SYSTEM
IMPACT STUDIES

SAFETY INSPECTION

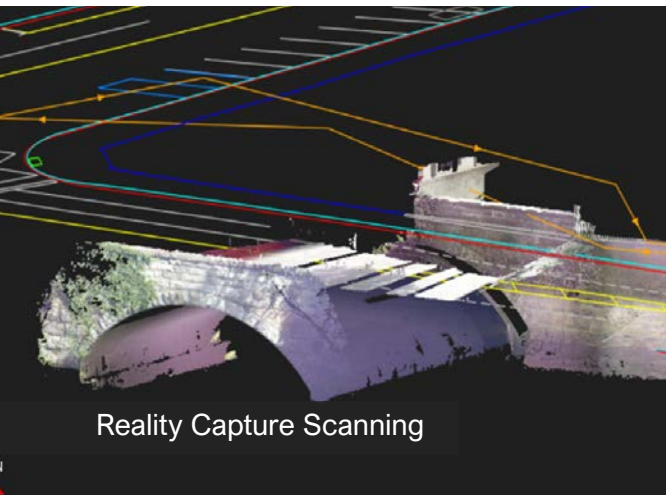
LOAD RATING ANALYSIS

SURVEY INSPECTIONS

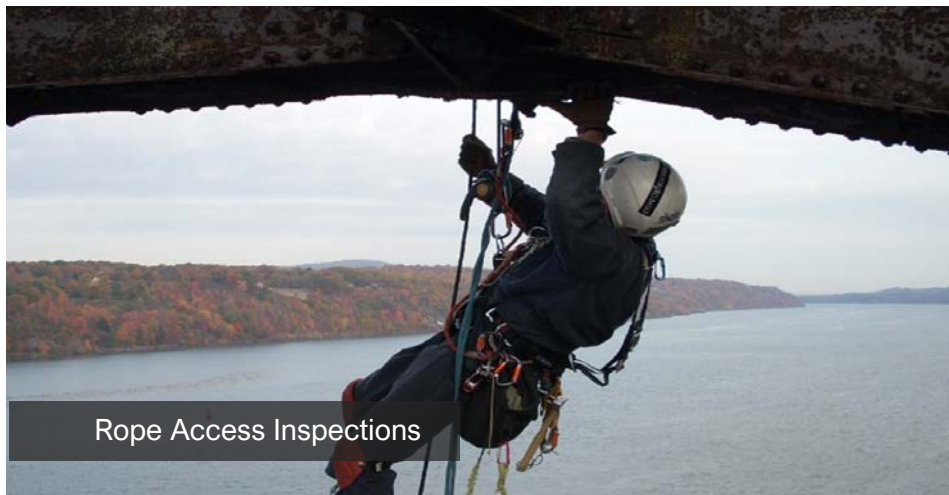
P.E. DIVE INSPECTIONS

ROPE ACCESS INSPECTIONS

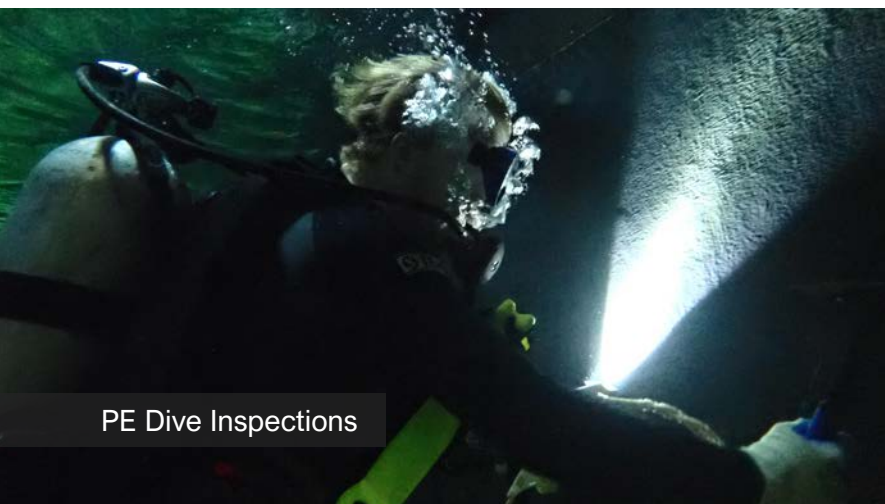
PROJECT HIGHLIGHTS



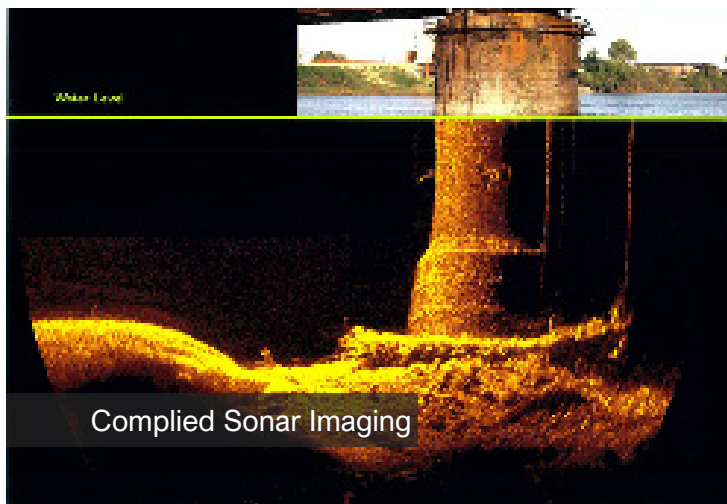
Reality Capture Scanning



Rope Access Inspections



PE Dive Inspections



Complied Sonar Imaging



Niagara Falls Bridge Inspection



National Aquarium Bridge Inspection

STRUCTURAL EVALUATION

REPAIR + REHABILITATION
DESIGN

SEISMIC, FATIGUE EVALUATION
+ RETROFIT DESIGN

MITIGATION REPORTS

BRIDGE REPLACEMENTS

REHABILITATION + MAINTENANCE

Having worked with private and public agencies around the country, McLaren has supported the rehabilitation and maintenance of hundreds of bridges, railway and roadway projects. Our infrastructure engineers provide detailed examination to determine conditions, safety, and future needs. We efficiently identify those elements in greatest need of rehabilitation. In this way, a group of bridges can be repaired or upgraded in a fashion that optimizes the use of available funds.

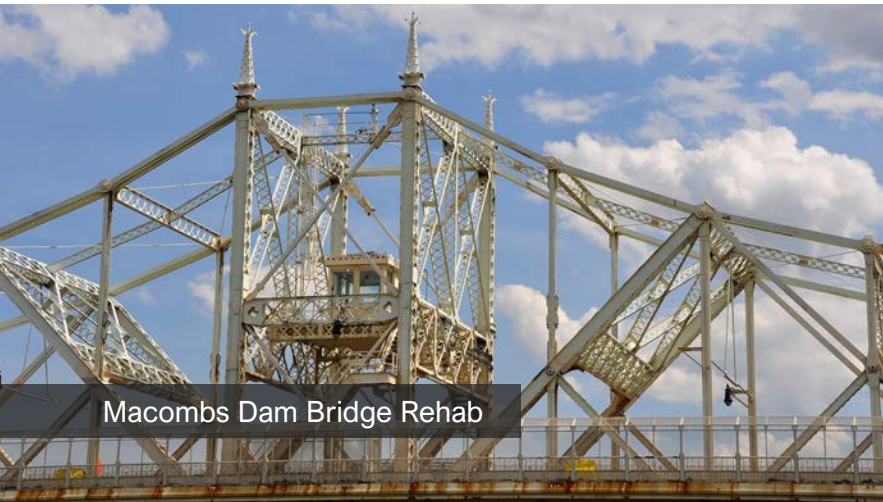
PROJECT HIGHLIGHTS



Capital Crescent Trail Bridge



Region 8 Bundled Bridges



Macombs Dam Bridge Rehab



Maybrook Trail Rail Bridge



Sedge & Mace Road Construction




City of Laurel Pavement Evaluation

STRUCTURAL DESIGN +
ENGINEERING

STORMWATER MANAGEMENT

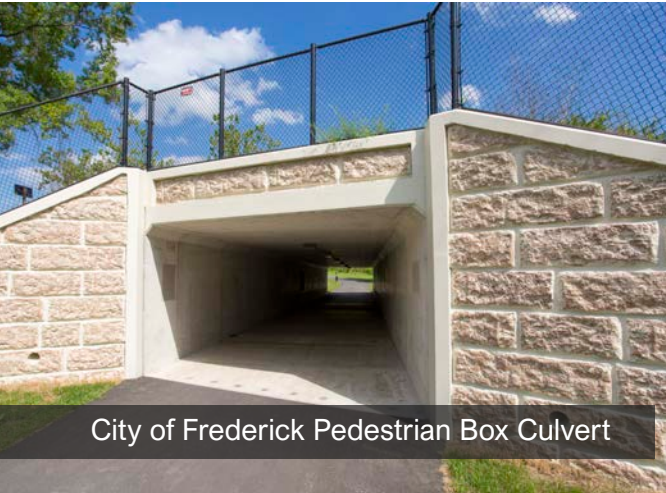
CULVERTS + DAM STRUCTURES

Our team of engineers, project managers and water specialists are experienced in culvert and dam engineering. By planning and researching the construction and by using materials that are less likely to erode, our team can increase the likelihood of appurtenant work success and minimize environmental damage. If engineered properly, blockages or altered waterflow can be mitigated and stream habitats can become resilient to changes in climate and land use.



Central Nyack Dam

PROJECT HIGHLIGHTS



City of Frederick Pedestrian Box Culvert



NYPA Dam Inspections



Trail Culvert Construction



NYS Canal System Structure Inspections



NYSDOT Culvert Inspections



LIRR Amott Drainage Culvert Rehab



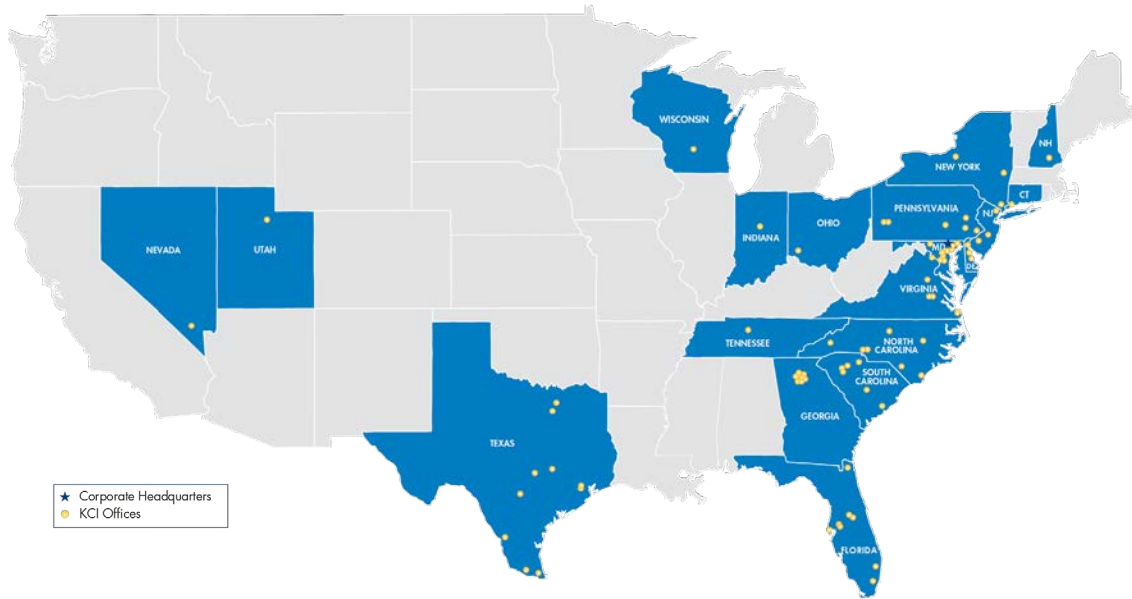
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