

# BRIDGE, HIGHWAY + RAIL

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**McLaren**  
ENGINEERING GROUP





McLaren Engineering Group  
Ph. 1-800-420-6401



## About Us

McLaren Engineering Group 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**

Vice President – 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





Route 42 Bridge Replacement



## 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

[www.mgmclaren.com](http://www.mgmclaren.com)

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.

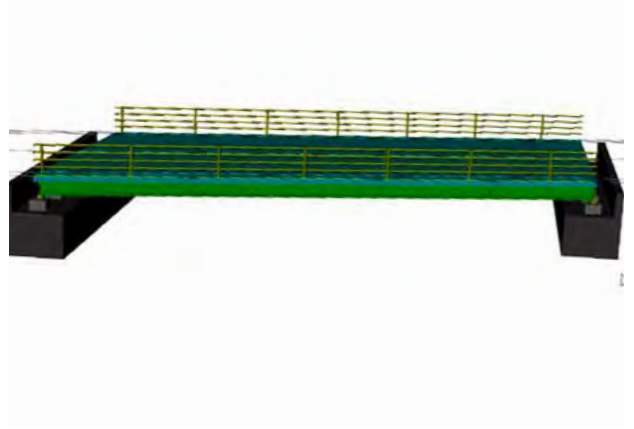




# APPLIED INGENUITY



MAYBROOK RAIL TRAIL



GRASSY POINT DESIGN 3D MODELING



CTDOT MONROE STREET BRIDGE



MONTGOMERY COUNTY PARKS  
PEDESTRIAN BRIDGES



URBAN AERIAL GONDOLA DESIGNS



I-390/I-490/ROUTE 31 INTERCHANGE



INFRASTRUCTURE INSPECTIONS +  
STUDIES

TRANSPORTATION SYSTEM  
IMPACT STUDIES

SAFETY INSPECTION

LOAD RATING ANALYSIS

SURVEY INSPECTIONS

P.E. DIVE INSPECTIONS

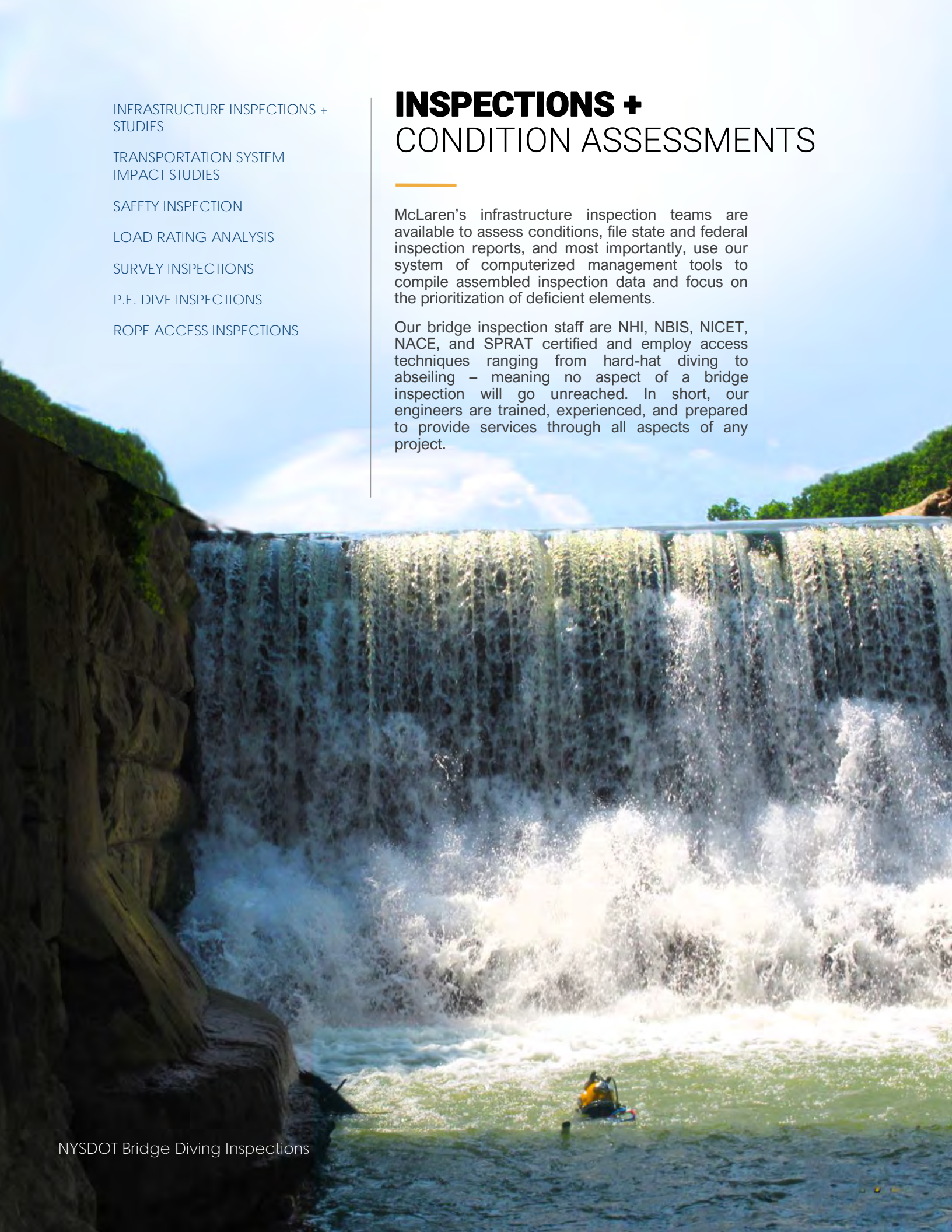
ROPE ACCESS INSPECTIONS

# INSPECTIONS + CONDITION ASSESSMENTS

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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.





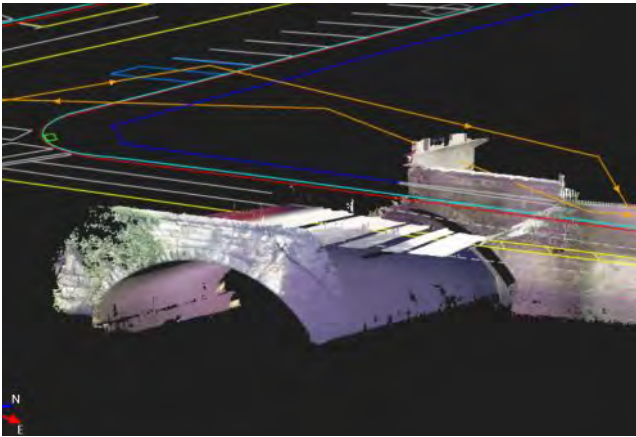
# APPLIED INGENUITY



NIAGARA FALLS BRIDGE INSPECTION



ROPE ACCESS INSPECTIONS



REALITY CAPTURE SCANNING



COMPILED SONAR IMAGING



PE DIVE INSPECTIONS



NATIONAL AQUARIUM BRIDGE INSPECTION



STRUCTURAL EVALUATION

REPAIR + REHABILITATION DESIGN

SEISMIC, FATIGUE EVALUATION +  
RETROFIT DESIGN

MITIGATION REPORTS

BRIDGE REPLACEMENTS

# REHABILITATION + MAINTENANCE

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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.

Hungry Hollow Road Bridge



# APPLIED INGENUITY



CAPITAL CRESCENT TRAIL BRIDGE



REGION 8 BUNDLED BRIDGES



MACOMBS DAM BRIDGE REHAB



MAYBROOK TRAIL RAIL BRIDGE



SEDE & MACE ROAD CONSTRUCTION



CITY OF LAUREL PAVEMENT EVALUATION



STRUCTURAL DESIGN +  
ENGINEERING

STORMWATER  
MANAGEMENT

# CULVERTS + DAM STRUCTURES

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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



# APPLIED INGENUITY



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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[www.mgmclaren.com](http://www.mgmclaren.com)