

Jefferson Parish | Resolution No. 137055

# Advanced Metering Infrastructure (AMI) for Water Service

March 16, 2021





Jefferson Parish Council  
C/O Ms. Eula A. Lopez  
Council Clerk  
200 Derbigny Street  
Suite 6700  
Gretna, LA 70053

Mott MacDonald  
650 Poydras Street  
Suite 2550  
New Orleans, LA 70130

T +1 (504) 529 7687  
F +1 (504) 529 7688  
[mottmac.com/americas](http://mottmac.com/americas)

March 16, 2021

**Statement of Qualifications to Provide Advanced Metering Infrastructure for Water Service - Resolution No. 137055**

Dear Ms. Lopez,

Growing demand and aging water systems coupled with customer-focused service drives the need for better data management, smart water solutions, and advanced metering infrastructure. Mott MacDonald understands that the AMI program will fundamentally transform the Parish's relationship with its water customers. This is an exciting undertaking and as a trusted partner to you, we want to be here for you every step of the way.

For this important project, we offer Jefferson Parish the following key advantages:

**A local, responsive, and experienced principal-in-charge and project manager who are well known to the Parish.** Our proposed Project Principal, Many Heymann, PE, along with Project Manager, Elizabeth Guiza, PE, will lead our experienced team. Both Many and Elizabeth have managed project teams on significantly large and varied projects and know the level of communication and coordination needed to keep a project of this magnitude moving forward.

**Proven track record of success.** We understand the challenges of this project because we have successfully worked with several utility companies to implement advanced metering infrastructure. For example, Mott MacDonald developed and oversaw an ambitious AMI program for DC Water that replaced 88,000 water meters and/or meter transmitting units. The valuable insight learned from this experience and others like it will help us develop a strategic approach that will maximize benefits and expedite project delivery.

**A team of technical experts in smart infrastructure, communication networks, and AMI implementation.** Key leaders that will support our local project management team include John Wujeck who managed the work for DC Water as well as Sebastien Mellot who has over 10 years of experience in AMI projects including the first large proactive smart water program undertaken in the UK. We have also included Mike Mulcare who leads Mott MacDonald's Smart Infrastructure Practice. Mike has recently been involved in DC Water's AMI Sensor program comprising evaluation and pilot testing of sensors within the AMI network, developing the communication and data network, data analytics and publishing applications. Adam Crotts, who will serve as our AMI communications lead, has extensive communications experience along the Gulf Coast and brings a keen focus on resiliency and reliability to smart infrastructure projects that rely on all forms of communication and system connectivity.

**Adequate resources to deliver a large smart meter project.** Mott MacDonald understands the critical importance of having the right people fully committed to each project assigned to the firm. To best serve the Parish with additional local staff, we have partnered with N-Y Associates to provide engineering and field service support. Based in Metairie, N-Y Associates has been providing engineering services in Jefferson Parish continuously for over forty-five years and has successfully completed all types of water facilities including water supply, treatment, and distribution.

In conclusion, our local presence, combined with our AMI experience and innovation in smart infrastructure, establishes us as a highly qualified firm that can guide you through the intricacies of this process offering you sound technical expertise, dependable service, and peace of mind.

On behalf of Mott MacDonald and our teaming partner, N-Y Associates, thank you for the opportunity to submit our qualifications and we look forward to working with Jefferson Parish on this important project.

Respectfully submitted,

Many Heymann, PE | Principal-in-Charge  
P. 504.799.0437 | E. [many.heyman@mottmac.com](mailto:many.heyman@mottmac.com)

The background features a large, solid blue shape that occupies the lower two-thirds of the frame. The upper third is a light gray area, which is partially defined by the blue shape's upper boundary. This boundary consists of a diagonal line from the top-left corner, a horizontal line, another diagonal line, and a final horizontal line segment on the right. The text "Mott MacDonald" is centered in the blue area.

**Mott MacDonald**

## TEC Professional Services Questionnaire

<b>A. Project Name and Advertisement Resolution Number:</b>			
Professional Engineering and Supplemental Services for the Procurement Document Development and Comprehensive Management related to the Implementation of Advanced Metering Infrastructure (AMI) for Water Service in Jefferson Parish - Resolution No. 137055			
<b>B. Firm Name &amp; Address where Project work will be performed:</b>			
<b>M</b>  <b>M</b> <small>MOTT MACDONALD</small>	Mott MacDonald 650 Poydras Street, Suite 2550 New Orleans, Louisiana 70130		
<b>C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:</b>			
<div style="color: #0070c0;">Many Heymann, PE</div> Vice President, Principal-in-Charge  many.heyman@mottmac.com, 504.799.0437 650 Poydras Street, Suite 2550, New Orleans, Louisiana 70130			
<b>D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.</b>			
<div style="color: #0070c0;">Elizabeth Guiza, PE</div> Project Manager  elizabeth.guiza@mottmac.com, 504.799.0438 650 Poydras Street, Suite 2550, New Orleans, Louisiana 70130			
<b>E. Please provide the number of employees whose primary function corresponds with each category:</b>			
309 Administrative 23 Architects (Licensed) 11 Chemical Engineers 358 Civil Engineers 98 Construction Inspectors 6 Ecologists 137 Electrical Engineers 130 Engineer Intern 22 Professional Land Surveyors	11 Estimators 13 Geologist 47 Geotechnical Engineers 1 Interior Designers 6 Landscape Architects 247 Land Surveyor 113 Mechanical Engineers 49 Environmental Engineers 0 Specification Writers 99 Structural Engineers	144 Transportation Engineers 0 Graduate Engineers 346 Project Managers 0 Clerical 15 CAD Operators 2 Grant Funding Specialist 33 Sanitary Engineers 0 Other 2220 Total	
<b>F. Is this submittal by a JOINT-VENTURE? Please check: YES    NO    <input checked="" type="checkbox"/></b>			
If marked "No" skip to Section I. If marked "Yes" complete Sections G-H.			



## TEC Professional Services Questionnaire

**G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.**

N/A

**H. Has the JOINT-VENTURE previously worked together? Please check:**

Yes \_\_\_\_ No \_\_\_\_

**I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928 (a)(3). Please attach additional pages if necessary.**

<b>Name &amp; Address:</b>	<b>Specialty:</b>	<b>Worked with firm before (Yes or No)</b>
N-Y Associates, Inc. 2750 Lake Villa Drive Metairie, LA 70002	Water resource engineering	Yes

**J. Please specify the total number of support personnel that may assist in the completion of this Project:**

20

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
Many Heymann, PE Principal Project Engineer
<b>Project Assignment:</b>
Principal-in-Charge
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With this firm: 17 With other firms:0
<b>Education: Degree(s)/Year/Specialization:</b>
BS, 2002, Chemical Engineering, University of South Alabama
<b>Active registration: Year first registered/discipline:</b>
LA, Civil, #35554, 2010
<p><b>Other experience and qualifications relevant to the proposed Project:</b>            Mr. Heymann possesses nearly 20 years of experience and currently oversees Louisiana operations out of our New Orleans office. Throughout his career he has managed, supervised, designed, and supported a variety of water and roadway infrastructure projects for state and local municipalities. His experience includes all phases of project development from feasibility and engineering studies through final design and construction. Notably, he has led a number of similar projects with complex challenges requiring extensive coordination of in-house staff, subconsultants, and stakeholders to support the seamless coordination between team members and the Parish. Mr. Heymann will ensure the appropriate staffing resources are made available to support the effective execution of this project.</p> <p><b>Jefferson Parish Water System Assessment:</b> Principal-in-Charge for the assessment of over 1,700 miles of waterlines. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Bourbon Street Rehabilitation, City of New Orleans, New Orleans, LA:</b> Principal-in-Charge. The project required extensive coordination with multi-faceted stakeholders throughout the planning, design, and construction phases of the project. These stakeholders included many governmental agencies, private utility companies, and the public at large. The scope of the project required removal and replacement of the existing concrete pavement, assessing drainage capacities and designing solutions to manage stormwater, replacing street lighting, and upsizing the existing sewer, water, electrical, and gas lines for eight blocks from Canal Street to Dumaine Street. Mott MacDonald was responsible for the engineering, construction administration, and resident inspection services.</p> <p><b>Tunnel Inspection and Repair/Rehabilitation, LADOTD, New Orleans, LA:</b> Principal-in-Charge. This project involved repair/rehabilitation plan preparation for the Houma, Harvey, and Belle Chasse Tunnels. These tunnels were originally constructed in the late 1950's. This project needed extensive coordination across several Mott MacDonald offices across North America in addition to various LADOTD stakeholders. Mott MacDonald performed a visual inspection of the structural, geotechnical, mechanical, and electrical components of the tunnels. Additionally, we were responsible for non-destructive testing of the structural and geotechnical components, evaluating the defects during testing, as well as preparing plans and specifications for each tunnel repairs and rehabilitation.</p> <p><b>Emergency Tunnel Assessment, City of New Orleans, New Orleans, LA: Principal-in-Charge.</b> The City of New Orleans called on Mott MacDonald to assist with the emergency assessment of a water leak and assessment of a tunnel located in downtown New Orleans. In April 2016, a portion of Canal Street collapsed into a void that had developed behind the failed end wall of the old Rivergate Expressway Tunnel underneath the roadway. Oversaw the emergency design, engineering, and construction management.</p> <p><b>Barataria Waterline Extension from McMurty Street to Trahan Street, Crown Point, Jefferson Parish, LA:</b> Project Manager for design of \$5.5 million construction project to extend the Barataria Waterline. Responsibilities included design and construction administration services.</p> <p><b>Iris Avenue Waterline Replacement from River Road to Jefferson Highway, Jefferson Parish, LA:</b> Principal-in-Charge for design services for the replacement of 3,500 feet of 12" PVC-C-900 waterline and associated street repairs. The project also includes resident inspection services.</p>

## TEC Professional Services Questionnaire

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b> 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>
<b>Mr. Many Marshall Heymann</b>	
License/Certificate Type - Number	Expiration Date
<b>PE.0035554</b>	<b>09/30/2022</b>
<b>Status: Active</b>	



## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
John Wujek Civil Engineer
<b>Project Assignment:</b>
Technical Advisor
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With this firm: 24 With other firms: 5
<b>Education: Degree(s)/Year/Specialization:</b>
BS, Civil Engineering, Rutgers University, 1993
<b>Active registration: Year first registered/discipline:</b>
1997, NJ #24GE04058300 2002, DC #PE900585 (Civil) OSHA Confined Space Entry
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Wujek's experience includes assessing system needs, prioritizing water main replacements, and preparing and evaluating design recommendations and studies as part of the capital improvements program, as well as developing facilities plans and conceptual designs, reviewing detailed designs and contract documents. He manages all computer hydraulic modeling activities, including the development of specific GIS databases indicating the locations of water main breaks and locations recommended for water main replacement, as well as the development of water quality, pipe condition assessment, and pavement cut plan databases.</p> <p><b>Automated Meter Reading (AMR) Program Manager, District of Columbia Water and Sewer Authority (DC Water), Washington, DC:</b> Program manager for a \$31 million AMR replacement program for DC Water that involves the replacement of 85,000 water meters and/or meter transmitting units (MTUs) at a rate of 5,000 per month. Provided management support including program chartering, planning, process development, resource and cost loaded scheduling, contractor oversight, project controls, and coordination with several supply vendors and a separate installation vendor. These efforts helped to promote a program that minimized service interruptions and maintained close coordination with billing, risk management, and DC Water's executive staff with monthly status reports to the General Manager. As a result of this program, overall DC Water MTU transmissions increased from 70% to 90%.</p> <p><b>Small Diameter Water Main Rehabilitation (SDWMR) Program, District of Columbia Water and Sewer Authority (DC Water), Washington, DC:</b> Responsible for the development and ongoing management of DC Water's Small Diameter Water Main Rehabilitation (SDWMR) Program, which rehabilitates or replaces close to 1% (11 miles) of distribution mains per year to extend their useful life, reduces system main breaks, improves domestic and fire flow capacity, and improves water quality. Responsibilities include the identification, investigation, and prioritization of candidate water mains to assist DC Water in the selection of locations for inclusion in future SDWMR projects.</p> <p><b>Small Diameter Water Main Replacements, District of Columbia Water and Sewer Authority (DC Water), Washington, DC:</b> Managed the preparation of detailed designs and contract documents (under several contracts) for the replacement of approximately 27,500 lf of small diameter (12-inches and smaller) water mains. The survey and design were completed in six weeks to meet American Recovery and Reinvestment Act of 2009 (ARRA) funding requirements.</p> <p><b>Water Main Replacements, D and E Streets, District of Columbia Water and Sewer Authority (DC Water), Washington, DC:</b> Engineer-of-Record for the design of the first PVC water main projects in the DC Water system, the replacement of 3,500 lf of small water mains along D and E Streets, SE, in the Capitol Hill Area of the City, and the replacement of the 5,100 lf 16-inch diameter tie-in to the McMillan Water Filtration Plant. Detailed design drawings, standard details, and specifications were developed within six weeks, meeting DC Water's revised bidding schedule. Both projects were successfully constructed on schedule and within budget.</p> <p><b>Water System Improvements, Bloomfield Township, Essex County, NJ:</b> Project Engineer for the design, bidding, and construction services for the cleaning and lining of approximately 37,000 lf of 6-inch and 8-inch diameter water mains, the installation of approximately 500 lf of 6-inch diameter water main, and the installation of approximately 150 lf of 6-inch diameter water main attached to a bridge over the Garden State Parkway.</p>

## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

**Sebastien Mellot**

Principal Project Engineer

**Project Assignment:**

Technical Advisor

**Name of Firm with which associated:**

Mott MacDonald

**Years' experience with this Firm:**

With this firm: 15 With other firms: 0

**Education: Degree(s)/Year/Specialization:**

Master's in International Industrial Project Management, University of Technologies of Belfort Montbéliard, 2005

Master's in Environment Engineering, Professional Institute of the University of Franche Comté, 2004

**Active registration: Year first registered/discipline:**

Chartered Water and Environmental Manager

Chartered Environmentalist

**Other experience and qualifications relevant to the proposed Project:**

Mr. Mellot has over 15 years of experience in water and sanitation infrastructure development, audit and asset management. He has provided advisory services for new water and sewer networks all over the world. Additionally he specializes in digital innovation, digital transition management and data management.

**Anglian Water Special Projects: Metering Program, UK:** Project manager for a 240,000 water meter exchange programme including a six month pilot project during which some 28,000 meter exchanges were completed. Responsible for supporting the Anglian Water Programme Manager, including project management and reporting, supervision of the contractors' work, site works supervision, managing updates to the client's work management system and databases, coordinating the meter replacement policy study, and supporting project risk management processes and procedures. Coordinator of research studies on the impact of water meter accuracy changes over time on water supply activities and metering assets management.

**Thames Water AMP 5 and 6 Metering Managed Services, UK:** Technical advisor for the Multipart consortium for the development of a competitive metering strategy for managing Thames Water's meter installation, replacement and reading for 10 years. Included the management of the transition of meter reading operations from manual to fixed network automatic meter reading (AMR) and development of an advanced metering infrastructure (AMI) system. In charge of selecting a meter supplier partner for the consortium and coordinating the intelligent metering in improving water supply network efficiency and meter replacement components including the preparation of site visits for the nine-month tender process for this \$120M contract.

**Water Metering Strategy and Technology Senior Advisor:** Senior advisor reviewing and advising on the strategy and technology of the water metering components of various water supply programs in Oman, India, Africa and UK.

**Project SOHO Vendor Technical Due Diligence, France and Spain:** Technical lead expert for a vendor technical due diligence related to the sale of an international water utility. Undertaking data review and site visits for assessment of compliance, performance and added value of five strategic operation contracts. Preparation of vendor technical due diligence report and support during potential buyers' questions and answers for an estimated €1.5 billion shares deal.

**Lilongwe Bulk Water PPP Phase 1, IFC, Team Leader, Malawi:** Team leader for this technical advisory project supporting the International Finance Corporation (IFC) with the technical due diligence and the tender preparation and management for a bulk water PPP for development of a new 50MLD water treatment plant and rehabilitation of the two existing water treatment plants for the water production for Lilongwe. Leading a multidisciplinary team in charge of asset evaluation, asset condition assessment, review of technical feasibility and operation efficiency evaluation during the first phase leading to PPP project formulation including preparation of external official communication plan for the project.

**Nairobi City Water Network Distribution Modification, Project Coordinator / Network Specialist, Nairobi, Kenya:** Project coordinator and water supply network specialist in charge of the coordination of the project team for water supply network model improvement for Nairobi City. In charge of the coordination of the preparation of the project deliverable for the identification of required network infrastructures and operation modification for the management of the water supply network activities under normal drought conditions of supply for Nairobi city.



## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
Elizabeth Guiza, PE Project Manager
<b>Project Assignment:</b>
Project Manager
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With this firm:10 With other firms:0
<b>Education: Degree(s)/Year/Specialization:</b>
BS, 2010, Civil Engineering, University of Mississippi
<b>Active registration: Year first registered/discipline:</b>
2015, Civil, LA, #39531
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Ms. Guiza's experience includes managing large, multi-disciplined team projects with detail to communication and organization. Throughout her career, she has managed, designed and provided construction support for multiple water and roadway infrastructure projects for states and local municipalities. Her experience includes the development of cost estimates, quantity calculations, drainage design, geometric design, erosion control, maintenance-of-traffic, preparation of construction documents, construction management and project management on various Civil/Site projects throughout Jefferson Parish. Ms. Guiza will lead this team to ensure a seamless project delivery.</p> <p><b>Jefferson Parish Water System Assessment:</b> Project Engineer for assessment of over 1,700 miles of waterlines. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Bourbon Street Rehabilitation (Phases 1 and 2), New Orleans, LA:</b> Project Manager, providing plan design and review services for the repair of Bourbon Street surface and underground infrastructure from Canal Street to Dumaine Street as part of the City-wide Public Safety Program. Mott MacDonald coordinated and sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors.</p> <p><b>Iris Avenue Waterline Replacement from River Road to Jefferson Highway, Jefferson Parish, LA:</b> Project Engineer for design services for the replacement of 3,500 feet of 12" PVC-C-900 waterline and associated street repairs. The project also included resident inspection services.</p> <p><b>Conti Street Reconstruction (Chartres St. to Bourbon St.), New Orleans, LA:</b> Project Engineer providing project management and plan development services for the full reconstruction of Conti Street surface and subsurface infrastructure from Bourbon Street to Chartres Street. Mott MacDonald developed plans and specifications to fully reconstruct two blocks of utilities beneath Conti Street to improve the stormwater drainage system, water systems, sanitary sewer systems and provide ADA compliance for the historic Conti Street.</p> <p><b>Tunnel Inspection and Repair/Rehabilitation, LADOTD, New Orleans, LA:</b> Project Manager. This project involved repair/rehabilitation plan preparation for the Houma, Harvey, and Belle Chasse Tunnels. These tunnels were originally constructed in the late 1950's. This project needed extensive coordination across several Mott MacDonald offices across North America in addition to various LADOTD stakeholders. Managed a visual inspection of the structural, geotechnical, mechanical, and electrical components of the tunnels. Additionally, we were responsible for non-destructive testing of the structural and geotechnical components, evaluating the defects during testing, as well as preparing plans and specifications for each tunnel repairs and rehabilitation</p> <p><b>FEMA Water Line Replacement Program at St. Anthony and Dillard Neighborhoods, New Orleans, LA:</b> Project Manager for design services for FEMA-eligible waterline repairs. The project scope of work includes developing preliminary design plans, final plans and specifications, and bid documents for the reconstruction of approximately 30,000 linear feet of damaged water lines. Mott MacDonald is also responsible for providing construction administration services.</p>

## TEC Professional Services Questionnaire

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b> 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>
<b>Ms. Elizabeth Burck Guiza</b>	
License/Certificate Type - Number	Expiration Date
<b>PE.0039531</b>	<b>09/30/2021</b>
<b>Status: Active</b>	



## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
Billy Perry, PE, SI Principal Project Engineer
<b>Project Assignment:</b>
QA/QC
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With this firm: 20 With other firms: 17
<b>Education: Degree(s)/Year/Specialization:</b>
BS, Civil Engineering, Auburn University AA, Civil Engineering, Gulf Coast Community College
<b>Active registration: Year first registered/discipline:</b>
2003, Civil, FL, #40552
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Perry is a deputy practice leader for our water/wastewater engineering services in the Southeast and a seasoned project director for many water and wastewater projects. In this role, Mr. Perry has effectively managed multi-disciplined teams on various engineering and environmental projects for local, state, and federal clients, where he serves as the liaison between our company and our client. His experience includes overseeing the design, permitting, and construction administration for a variety of civil/ site, stormwater, water and wastewater treatment, collection, and transmission, port and marine facilities, fuel storage systems, and environmental assessment projects.</p> <p><b>Panama City Water Model, City of Panama City, Panama City, FL:</b> Project Principal and QA/QC supporting water modeling services and the preparation of a hydraulic model of the Panama City water system using WaterGEMS software. Mr. Perry assisted in gathering data vital to the construction and calibration of the model using flow testing, pressure testing and geographic information systems (GIS). Mr. Perry assisted in the creation of a capital improvements plan which utilized the model and field tests in its creation.</p> <p><b>St. Andrews WWTF Sewer Model, City of Panama City, Panama City, FL:</b> Project Principal and QA/QC supporting sewer modeling services and the preparation of a hydraulic model of the St. Andrews sewage collection and transmission system using SewerCAD software. This included inspection of 81 pumping stations throughout the city to determine condition and deficiency of the stations. Mr. Perry assisted in the creation of a Capital Improvement Plan which utilized the model and field tests in its creation.</p> <p><b>Millville WWTF Sewer Model, City of Panama City, Panama City, FL:</b> Project Principal and QA/QC supporting sewer modeling services and the preparation of a hydraulic model of the Millville sewage collection and transmission system using SewerCAD software. This included inspection of 41 pumping stations throughout the city to determine condition and deficiency of the stations. Mr. Perry assisted in the creation of a Capital Improvement Plan which utilized the model and field tests in its creation.</p> <p><b>Redstone Arsenal Utility Master Plan, US Army, Huntsville, AL:</b> Project Principal and QA/QC for sewer modeling services and the preparation of a hydraulic model of the sewage collection and transmission system using SewerGEMS software. Mr. Perry also performs water modeling services and the preparation of a hydraulic model of the water transmission and distribution system using SewerGEMS software.</p> <p><b>Bay County Alternate Water Supply, Bay County, FL:</b> Project Manager and Design Engineer for a new surface water intake facility. A hydraulic and transient analysis was conducted using Bentley's WaterGEMS and Hammer programs. The project included a passive intake facility and 30 mgd triplex pump station near Econfina Creek as well as 10 miles of 36-in piping for transmission of raw water to an existing water treatment plant. Various options for the water main route were considered with the selected route based on access, ease of maintenance, constructability and impacts to the environment.</p> <p><b>Bonifay Sewer System Improvements, Bonifay, FL:</b> Project Principal responsible for the evaluation and design of the City's sewer system upgrades. Project deliverables included hydraulic model, and constructions plans to upgrade and expand the City's current sewer system. The project replaced several major lift stations with grinder type lift stations ranged in capacity from 5 hp to 60 hp, over 300 manholes, and over 25,000 LF of sewer mains.</p>

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
Daniel Keck, PE Civil Engineer
<b>Project Assignment:</b>
Technical Advisor
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With this firm: 27 With other firms: 0
<b>Education: Degree(s)/Year/Specialization:</b>
MS, Environmental Engineering; Georgia Tech; 1994; BCE, Civil Engineering; Georgia Tech; 1991
<b>Active registration: Year first registered/discipline:</b>
2014, Civil, LA, #39169
<b>Other experience and qualifications relevant to the proposed Project:</b> <p>Mr. Keck is a Principal Project Manager and Team Leader with diverse experience leading complex multi-discipline design, construction, and commissioning teams. He is also a seasoned client relationship manager who has provided exceptional service to a wide variety of utilities, local governments, and industries. His areas of technical expertise include master planning for large utilities, communications and controls for large pumping facilities/conveyance systems, hydraulic evaluations and computer modeling and creative financing plans for large capital projects. He has led many evaluations and design teams to improve facility resiliency and reliability. Mr. Keck is often the senior design and/or approval engineer for complex projects.</p> <p><b>Jefferson Parish Water System Assessment:</b> Technical Advisor for assessment of over 1,700 miles of waterlines. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>SCADA System Master Plan Review and Evaluation, DC Water, Washington DC:</b> Senior Engineer to evaluate DC Water's SCADA system and recommend updates to the SCADA Master Plan and identify system improvements. DC Water's SCADA system interconnects its four pumping stations and nine storage reservoirs and is used not only for remote operation and monitoring, but also: 1. Site and Cyber Security, 2 Interfacing with Enterprise/asset management systems (MAXIMO, Live Link and Financial Accounting). 3. Automated preventative and predictive maintenance work orders and reporting. 4. Storing lab data for automatic regulatory reporting. The resultant was a \$16M CIP for improvements to DC Water's SCADA system.</p> <p><b>Water Pumping Stations Facility Master Plan, DC Water, Washington, DC:</b> Senior Engineer responsible for writing &amp; developing recommendations &amp; CIP for DC Water's four Pumping Stations. Evaluations included mechanical, electrical, structural, and architectural elements to determine needs within planning horizon. Capacity of all four stations is greater than 300-MGD.</p> <p><b>Standard Operating Procedure Visioning &amp; Development, DC Water, Washington, DC:</b> Senior Engineer on a leadership team to facilitate a visioning process for SOP development. The objective was to develop a concept for SOPs acceptable to all DC Water stakeholders, which consolidated formats, information delivery, technology platforms, asset management programs and maintenance systems.</p> <p><b>Water Master Plan, Pace Water System, Pace, FL:</b> Client Manager and Engineer of Record for a 20-yr comprehensive utility master plan for all three utility systems (water, wastewater, and raw water). Developed Hydraulic models and Conducted an evaluation &amp; development of CIP for each of the systems in five-year intervals, including alternatives evaluation &amp; overall</p> <p><b>Resiliency Evaluation for 65-MGD WTP, 200-MGD Raw Water PS and Transmission Main, Mobile AL:</b> Project Manager for evaluation of facilities to improve resiliency during natural adverse events. Improvements were identified and categorized by process-unit. Improvements were prioritized by criticality and likelihood of threat to create immediate, intermediate, and long-term capital improvement plans.</p> <p><b>SCADA System Upgrades, Sarasota County Commission, Sarasota County, FL:</b> Senior Engineer and Manager for the design, telemetry configuration and construction management for installation of a new SCADA system for 275-RTUs throughout the County. Responsible for bidding, negotiating, and managing engineering and design, programming, and construction management. Phases were managed concurrently.</p>

## TEC Professional Services Questionnaire



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Mr. Daniel Wade Keck**

License/Certificate Type - Number

**PE.0039169**

Expiration Date

**03/31/2021**

Status: **Active**





## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Michael Mulcare</b> Smart Infrastructure and Asset Management Practice Leader
<b>Project Assignment:</b>
Smart Infrastructure & Business Applications Lead
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With this firm: 4 With other firms:23
<b>Education: Degree(s)/Year/Specialization:</b>
MBA, Business Administration, Massachusetts Institute of Technology, 2014 MA, Management (Finance Track), Harvard University Extension School, 2013 BE, Electrical Engineering, Georgia Institute of Technology, 1994
<b>Active registration: Year first registered/discipline:</b>
N/A
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>As Smart Infrastructure Team Leader, Mr. Mulcare focuses on improving the performance, reliability, and efficiency of water/wastewater systems through implementation of new IoT sensors, communication infrastructure, and system modeling and analytics to facilitate increased system understanding and effective decision making. His responsibilities include integration of SCADA, cloud analytics, EAM, and business systems to enhance the management of critical infrastructure and promote sustainable social and economic development. Mr. Mulcare has provided project management, from project planning to closure, for the setup and organization of maintenance, calibration, and inventory systems, including schedule development, contract support, requirements development, deployment of hosted environments, software configuration and testing, procedure creation, data migration planning and acceptance specification, staff training, and computer system validation.</p> <p><b>Project Manager for Water and Sewer Sensor Program (WaSSP) at DC Water:</b> Project Manager driving the smart water system roadmap to transform DC Water's water infrastructure to a 'smart water system' through remote sensing, information systems integration, data analytics, and modeling. Responsibilities include project planning and coordination, technology research and assessment, sensor and communication network design and deployment, installation and commissioning of multi-parameter water quality monitoring systems, mapping of information flow, evaluation of enterprise systems for systems integration, overseeing development of data analytics and visualization tools, and coordination of cross-functional teams to deliver phased project objectives.</p> <p><b>Project Manager for Asset Management Program Transformation at Mount Pleasant Waterworks in Mount Pleasant, SC:</b> Managed planning and execution of a cross-organization gap assessment and development of associated closure plan/roadmap. Chartered multiple, parallel working time to deliver organizational changes including leadership and change, work management, materials management, capital planning &amp; delivery, reliability engineering, and technology enablement through IT. Focus areas include business and information process mapping, integrated risk and criticality, asset information management, performance measures, and data reporting and visualization.</p> <p><b>Project Manager for Maximo Upgrade Project at Patheon Pharmaceuticals in Cincinnati, OH:</b> Managed planning and implementation activities for deployment of IBM Maximo platform including schedule development, authoring of data migration plan and acceptance specifications, extraction of data for legacy systems, data cleansing, and preparation of data migration templates.</p> <p><b>Program Manager for Asset Management Program Development at Seres Therapeutics in Cambridge, MA:</b> Provided consulting services for setup and organization of asset management programs including maintenance, calibration, and inventory systems; perform asset criticality analysis and associated maintenance and parts inventory planning; and provide advisory services for implementation of integrated business and information processes. Managed deployment of Blue Mountain Regulatory Asset Manager including schedule development, contract support, requirements development, deployment of hosted environments, software configuration and testing, procedure creation, data migration, staff training, and computer system validation.</p>

## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

**Adam Crofts, PE**

Radio and Systems Communications Expert

**Project Assignment:**

AMI Communications Lead

**Name of Firm with which associated:**

Mott MacDonald

**Years' experience with this Firm:**

With this firm: 5 With other firms: 16

**Education: Degree(s)/Year/Specialization:**

BS, Electrical Engineering, Power and Control Systems, University of South Alabama, 2000

**Active registration: Year first registered/discipline:** Professional Engineer

2018, LA, #PE.0042564

2012, GA, #036950

2017, OR, #91794PE

2014, AL, #32500

2014, KY, #30300

2017, PA, #PE085444

2007, FL, #65523

2016, NM, #23646

2016, TX, #122639

**Other experience and qualifications relevant to the proposed Project:**

Mr. Crofts has over 21 years of experience as a project manager and electrical engineer in the oil, gas, water and wastewater industries. Mr. Crofts has extensive experience in overseeing, managing and executing electrical, instrumentation and automation projects. His project background includes SCADA systems and implementation, remote telemetry and wireless solutions. Mr. Crofts has significant capabilities in developing communication specifications, providing vendor coordination and supporting procurement services for a wide range of facilities and system-wide communication projects.

**Waha Express, TX - Energy Transfer:** Electrical Engineer responsible for the design functions for the following: 388 miles of 60-strand fiber optic cable interconnecting a large compressor facility, ten meter stations, and eighteen main line valves located in two different countries. The design also includes the complete network architecture, all cyber security, and all control equipment for the communicating network.

**South Walton Wastewater Treatment Facility Expansion, South Walton, FL:** Electrical Engineer: Complete upgrade to the control system, designed around a plant-wide wireless radio network that allowed the central control system to communicate with the remote terminal units (RTUs) installed to monitor and control remote equipment and processes.

**Nokuse Booster Pump Station (Florida Regional Utilities), Freeport, FL:** Electrical Engineer: scope included the complete system integration of the system, wireless (licensed radio) communication link, and connection of the system to the client's SCADA system.

**Community Way Booster Station (Florida Regional Utilities), Santa Rosa Beach, FL:** Electrical Engineer: scope included the complete system integration of the system, wireless (licensed radio) communication link, and connection to the client's SCADA system.

**Decatur Utilities SCADA System Improvements, Decatur, AL:** The project included a complete system-wide upgrade to the client's SCADA system components installed at the remote gas meter stations, and integration of the remote control panels in to the clients existing SCADA application through the use of cellular modem connections.

**Mid County SCADA System Replacement, Fort Walton Beach, FL:** The project centered around the SCADA system RTU replacement of all the remote RTUs mounted in the mid-county region of the Okaloosa County SCADA system. The scope included the design and integration of new, wireless communications (mixture between cellular and 900MHz spread spectrum) and fiber communication equipment.

**Okaloosa County SCADA System Standardization and Migration, For Walton Beach, FL:** The scope included standard RTU control panel designs, standard PLC application development (for each type i.e. water, wastewater, etc.), wireless (mixture between cellular and 900MHz spread spectrum) and fiber communication equipment.

**Fairpoint Regional Water Utilities Well #6, Milton, FL:** The scope included integrating the station with PLC, integration of the field instrumentation, configuration of the wireless (UHF Radio) system components, and modifications to the central HMI system to allow monitoring and control of the well.

## TEC Professional Services Questionnaire



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
[www.lapels.com](http://www.lapels.com)

**Mr. Adam Christopher Crotts**

License/Certificate Type - Number

**PE.0042564**

Expiration Date

**09/30/2022**

Status: **Active**



## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

**Bruce Neu, PE**

Senior Project Engineer

**Project Assignment:**

Procurement / Installation & Construction QC

**Name of Firm with which associated:**

Mott MacDonald

**Years' experience with this Firm:**

With this firm: 28 With other firms: 17

**Education: Degree(s)/Year/Specialization:**

MS, Environmental Engineering, New Jersey Institute of Technology, 1980

BS, Civil Engineering, New Jersey Institute of Technology, 1975

**Active registration: Year first registered/discipline:**

2014, DC, #PE907780

1983, NJ, #24GE02861300

2013, PA, #PE080786

2013, OH, #PE.77485

1998, AL, #22385

1997, FL, #51672

2011, GA, #PE036001

2012, LA, #PE.0037099

2007, MS, #17745

2003, NCEES, #23696

1988, NJ, Municipal, #CME045

OSHA Confined Space Entry, 1993

**Other experience and qualifications relevant to the proposed Project:**

Mr. Neu has over 40 years of professional experience performing work in complex engineering phases of field studies, designs, investigations, and construction of water and wastewater pump stations, treatment facilities, storm drainage, and water, sewer, and reclaimed water pipeline systems. Mr. Neu serves on some of Mott MacDonald's technical advisory committees and has been an active member of new technology roll outs. Mr. Neu offers over 45 years of experience in the municipal water sector. He has been a trusted technical advisor for several key clients along the Gulf Coast.

**Owens Road 16-inch Water Main, Jacksonville, FL:** Mr. Neu served as EOR for the design, permitting and public bidding of a new 16-inch water main to be installed along the Owens Road ROW from Ranch Road to Max Leggett Parkway. The design included 3,800 lf of 16-inch PVC and 1,890 lf of 18-inch HDPE for HDD crossing of FDOT I-95. The project was bid in March 2020 for \$1.25M which was well under Mott MacDonald's 100 percent construction estimate.

**Chilled Water 16 and 20-inch Water Main, Jacksonville, FL:** Mr. Neu is serving as QA/ QC engineer for the design and permitting of approximately 1,800 lf of 16-and 20- inch chilled water main to serve the new JEA Headquarters. The project is complex due to design of the tie-in locations with extremely deep excavation (~20 feet) to the existing pipe being installed by HDD. Complex MOT is required since the construction route is along downtown Jacksonville adjacent to the Ed Ball Building and Duval County Courthouse. The route is heavily congested with many utilities including water main, chilled water main, gas main, underground electric, and gravity sewer. Design efforts will be completed by October 2020. Mr. Neu is also overseeing all permitting activities and coordination of subconsultants to gather survey, SUE, and geotechnical investigations in a timely manner to expedite the design.

**5th Street 20-inch Force Main, Jacksonville, FL:** Mr. Neu serves as EOR for the design, permitting, and bidding for approximately 16,900 lf of 20-inch PVC DR25 force main via open cut, HDD, and jack-and-bore. Permitting coordination was required with FDOT and COJ. The project involves a complex tie-in arrangement in a heavily congested street involving combining (2) 12-inch force mains with the new 20-inch force and a 27-inch gravity sewer to a new 8-foot diameter manhole and new gravity sewer and 8-foot diameter manhole to replace an existing junction box in the middle of Melson Avenue. The replacement of the junction box requires bypass pumping to be implemented to construct the new manhole and tie-in all piping. The project is moving from 90 percent to 100 percent. Mr. Neu held multiple meetings with JEA's management and O&M group to discuss and evaluate many different options for the complex tie-in arrangement that is described above.

## TEC Professional Services Questionnaire



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
[www.lapels.com](http://www.lapels.com)

**Mr. Bruce Allen Neu**

License/Certificate Type - Number

**PE.0037099**

Expiration Date

**09/30/2022**

Status: **Active**





## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

**Lila Lasecki, PE**

Civil Engineer

**Project Assignment:**

Assistant Project Manager

**Name of Firm with which associated:**

Mott MacDonald

**Years' experience with this Firm:**

With this firm: 6 With other firms: 2

**Education: Degree(s)/Year/Specialization:**

BS, 2015, Civil Engineering, The University of Alabama (Minor in Construction Engineering)

**Active registration: Year first registered/discipline:**

Professional Engineer: 2019, LA, #0044145; 2019, AL, #38458

**Other experience and qualifications relevant to the proposed Project:**

Ms. Lasecki is a professional engineer skilled in various civil engineering projects such as water/wastewater, roadway design, stormwater management, and construction administration. Ms. Lasecki is dedicated to supporting some of the Louisiana offices most significant programs.

**Jefferson Parish Water System Assessment:** Project Engineer for assessment of over 1,700 miles of waterlines. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.

**Bourbon Street Rehabilitation (Canal Street to Dumaine Street), City of New Orleans, Department of Public Works, New Orleans, Louisiana:** Provided civil design support. Mott MacDonald provided engineering, construction administration, and resident inspection services for the repair of Bourbon Street surface and underground infrastructure from Canal Street to Dumaine Street as part of the Citywide Public Safety Improvement Program. The project commenced in April 2017 and will take approximately nine months to complete. Mott MacDonald coordinated and sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board, residents, business owners, utilities, and contractors.

**S. Palmer Gaillard Pump Station Emergency Generators, MAWSS Resiliency Upgrades, Mobile, AL:**

Provided engineering support. After performing a facility resiliency study for the Mobile Area Water and Sewer System, the Gaillard and Stickney pump station and water treatment facility were exposed as sub-par. Due to the approaching North Atlantic Hurricane Season, expedited delivery was crucial. This project entailed the preparation of conceptual design for sufficient for generator sizing and tie-in determination, preparation of bidding specifications, advertisement, and review.

**Mobile County Parks Campground Improvements, Mobile, AL:** Project Engineer for roadway and water/wastewater design. The project consists of design for buildings, roadways, drainage, water distribution and sanitary facilities for the park and campground.

**Airbus Final Assembly Line (FAL)-USA Program Management, Brookley Aeroplex, Mobile, AL:** The overall project consists of the provision of Professional Program Management Services for the construction of Airbus's first Final Assembly Line (FAL) in the United States. The project infrastructure includes enabling works, aircraft hangars and related support facilities, airfield pavements, management offices and ancillary buildings, parking lots, and landscaping. The project encompasses an area of approximately 90 acres. Ms. Lasecki assisted in the Civil the design of the Enabling Works Phase of the project which included mass grading, site erosion control and installation of permanent drainage structures as bypass systems and the permanent outfall system into Mobile Bay. Ms. Lasecki was responsible for the design of the Civil Bridging Documents for three design build packages. She assisted with peer reviews of design submittals, procurement of design consultants, and permitting assistance and oversight.

**Flight Works Alabama Aviation Education Center, Mobile, AL:** Civil design support. The scope of this project included a new building of approximately 18,000 square feet including an exhibit/display hall, restaurant to accommodate one hundred people, office space for six people, conference room, gift shop, and two classrooms for up to forth people each. As well, the building contained a raised access flooring system throughout the facility.

## TEC Professional Services Questionnaire



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

Ms. Lila Jean Lasecki

License/Certificate Type - Number

PE.0044145

Expiration Date

03/31/2022

Status: **Active**



## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
Eric Bess, GISP Geospatial Professional
<b>Project Assignment:</b>
Field Implementation Specialist
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With this firm: 8 With other firms: 17
<b>Education: Degree(s)/Year/Specialization:</b>
BS, Engineering Technology, West Virginia University, Institute of Technology, 1996 AS, Civil Engineering Technology, West Virginia University, Institute of Technology, 1995
<b>Active registration: Year first registered/discipline:</b>
Certified Geographic Information Systems Professional (GISP) NICET Certified Civil Engineering Technician, #89568
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Bess has over 25 years of experience covering a multitude of tasks including database development, workflow and dataflow process management, data management, training, reporting and analysis, asset management, QA/QC of various datasets and field personnel management. Project Manager on a variety of projects including water, stormwater and transportation asset management.</p> <p><b>AMI West Virginia American Water Company, WV:</b> Served as Project Manager and Senior GIS Specialist on this project that involved field data collection with sub-foot GPS for a client program to replace probe and manual read meters with AMR/AMI read systems. Created the data collection workflow and data processing and QAQC procedures for this 5-year effort of collection of approximately 186,000 points. Responsible for field crew coordination, deliverables for 3rd party contractors who performed the meter change-outs, and progress reporting. Also, the data was provided to the client as coordinates linked to each premise number for updating their master service address database.</p> <p><b>Water System Acquisitions Due Diligence, West Virginia American Water Company, WV:</b> Served as Project Manager and Senior GIS Specialist on this project. Client requested due diligence to be done on a smaller water system to be acquired. Work consisted of creating a geodatabase to contain system information, coordination of field data collection activities and QAQC of data. Assets were digitized from scans that were georeferenced allowing for creation of a field system map for field reconnaissance. Assets were then GPS'd and the database updated accordingly. Photos and other available information were captured for client's management team to access the viability and areas of need for immediate improvement to allow for proper acquisition and transition to not negatively impact the customer.</p> <p><b>Distribution System Improvement Charge (DSIC) Inspection, West Virginia American Water Company, WV:</b> Served as Project Manager and Senior GIS Specialist on this project. The DSIC is a surcharge to customer bills that allows an additional funding influx to the client for infrastructure improvement. The client required multiple Resident Project Representatives for inspecting these jobs. Workflows and standardization of reporting and electronic submittals of inspection daily reports etc. were developed and supported for this effort. Project management and coordination efforts were done to manage client needs and requirements as they evolved during this program. Final project packets from inspection services include a project summary, permits, materials ordered, materials received, materials places, material return to stock reconciliation, pressure testing records, water sample information, GPS collection of facilities, right of way and temporary construction easement acquisition, daily inspection reports, photos, stone and paving ticket information and as-built mapping geodatabases for import into client GIS system.</p> <p><b>Asset Data Management, West Virginia American Water Company, WV:</b> Served as Senior GIS Specialist on this project consisting of data discovery, collection, process development, and integration to WVAW GIS System. Served as liaison with field operations to ensure field mark-ups of data were delivered and assimilated into the WVAW GIS System. Developed a field data collection process with GPS technology for more efficient collection and integration.</p>

## TEC Professional Services Questionnaire

**L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.**

### PROJECT NO. 1

**Project Name, Location and Owner's contact information:**

**DC Water Meter Replacement Project**

DC Water | Washington, DC

Biju George | 202.787.2000 | biju.george@dcwater.com

**Nature of Firm's Responsibility**

See below

**Project description:**

DC Water provides service to the District of Columbia with 127,000 customers. DC Water's meters and meter transmitting units (MTUs) were nearing the end of their useful life and there was a drop in overall transmission rates. In 2016, DC Water commenced an ambitious program to replace approximately 85,000 water meters and/or meter transmitting units (MTUs) in 18 months. DC Water recognized that this program was critical to both the financial viability and customer confidence.

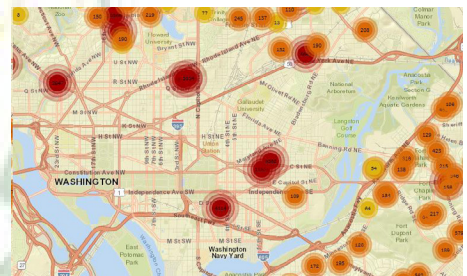
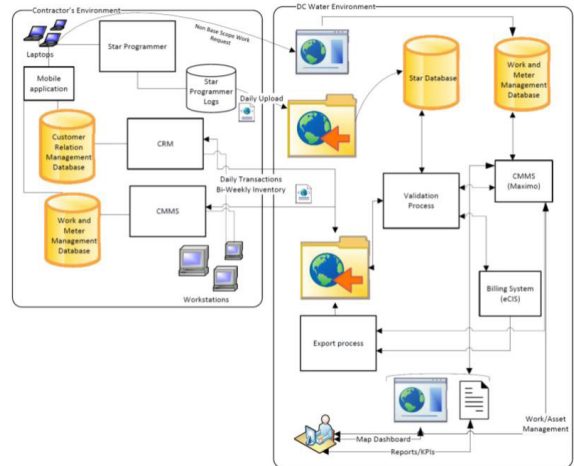
DC Water project team assembly included CIS/Billing, Customer Service Support, Inventory Management, IT, Public Outreach, Procurement, and other key business units to ensure program success.

**Firm responsibility:**

Mott MacDonald served as the Program Manager and was charged to develop and oversee the program to ensure schedule and budget compliance within the program goals. Mott MacDonald provided planning, procurement support, resource and cost loaded scheduling, contractor oversight, project controls, coordination with several supply vendors and a separate installation vendor. These efforts help to promote a program that minimized service interruptions and maintained close coordination with billing, risk management, and DC Water's executive staff with monthly status reports to the General Manager.

**Lessons learned:**

- Conduct scheduled frequent progress meetings with the Installation Vendor and Project Team.
- Report to an Oversight Committee comprising of DC Water's executive staff. Provide monthly status report to the GM.
- Review project financial status and spending projections monthly.
- Develop and manage program risk by maintaining an active project risk registry.
- Make Meter Program recommendations. Prepare justification, scope, preliminary estimated cost, projected expenditure plan and other necessary information in accordance with DC Water requirements.
- Provide assistance and counsel as requested related to financing of the Program. Conduct additional analysis, if requested, to support required presentations.
- Inventory management support – developing tracking database to maintain adequate stock for installation vendor. Update database weekly and provide monthly reports.
- Provide additional services (such as CM field oversight, billing reconciliation, GIS/Programming).



Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible
2019	\$31M	\$1.8M



# TEC Professional Services Questionnaire

## PROJECT NO. 2

### Project Name, Location and Owner's contact information:

#### AMR Meter Replacement Program

The Southeast Morris County Municipal Utilities Authority (SMCMUA)

Washington, DC | Kenneth A. Crawford | 251.472.5340

### Nature of Firm's

#### Responsibility

See below.

### Project Description:

The Southeast Morris County Municipal Utilities Authority (SMCMUA) operates a public water system in New Jersey, serving a population of approximately 67,000. Average day demand for the system is approximately 8 MGD with a peak day demand of 16 MGD.

SMCMUA has elected to convert their meter and billing system to Advanced Meter Infrastructure (AMI) and engaged Mott MacDonald to provide professional services for the design of installation of smart water meters w/meter transmitter units (MTU's) and production of bid contract documents. SMCMUA employs an AMI Fixed Network system with KP Electronics' MegaNet Automated Meter Reading (AMR) equipment.

The AMR equipment is comprised of MTU's, receivers, repeaters, software and handheld field terminal units. The purpose of the project was to prepare bid documents that SMCMUA could advertise to Contractors on an annual basis.

### WATER METER AND MTU STANDARD CONSTRUCTION AND INSTALLATION DETAILS

SHEET NO.	DETAIL	DESCRIPTION
G001		TITLE SHEET AND DRAWING LIST
G002		GENERAL NOTES - 1 OF 2
G003		GENERAL NOTES - 2 OF 2
C501	A	WATER METER INSIDE PROPERTY
C502	B	WATER METER 5/8"X3/4", 3/4" AND 1" IN EXISTING METER PIT
C503	C	WATER METER 1 1/2" AND 2" IN EXISTING METER PIT
C504	D1, D2	WATER METER 5/8"X3/4", 3/4" AND 1" IN NEW METER PIT
C505	E	WATER METER 1 1/2" AND 2" IN NEW METER PIT
C506	F1, F2	NEW MTU IN CONFINED SPACE
C507	G	METER YOKE INSTALLATION
C508	H	WATER METER INSTALLATION 1 1/2" AND 2"
C509	I, J	BRICK PENETRATION DETAIL
C510	K, L	VINYL PENETRATION DETAIL
C511	M, N	HARDIPLANK PENETRATION DETAIL

Title		M M		MOTT MACDONALD	
METER REPLACEMENT PROGRAM GENERAL COVER SHEET					
Date	Drawn	Checked	Approved	Scale at ANS/A	Drawing Number
01-11-2019	CB	AJT	AJT	As Shown	G001
					Status
					PRE

### AMR METER REPLACEMENT PROGRAM

Description	Page No.
Special Conditions	SCON-1 – SCON-4
Detailed Specifications	
Division 1 - General Requirements	
1000 General Requirements	1000-1 – 1000-2
1010 Additional Information	1010-1
1020 Special Project Procedures	1020-1 – 1020-2
1030 Coordination	1030-1
1040 Field Engineering	1040-1
1050 Regulations	1050-1 – 1050-3
1060 Alternates	1060-1
1070 Measurement and Payment	1070-1 – 1070-6
1080 Project Meetings	1080-1
1090 Submittals	1090-1 – 1090-3
1100 Quality Control	1100-1 – 1100-2
1110 Construction Facilities and Temporary Utilities	1110-1 – 1110-2
1120 Material and Equipment	1120-1 – 1120-3
Division 2 - Site Work	
2100 Environmental Protection	2100-1 – 2100-3
2230 Clearing and Grubbing	2230-1 – 2230-3
2300 Earthwork	2300-1 – 2300-10
2830 Cleanup and Restoration	2830-1
2900 Planting	2900-1 – 2900-4
Division 15 - Piping	
15200 Water Services, Meters and Meter Transmitter Units	15200-1 – 15200-9
Appendix A – Water Meter and MTU Standard Construction and Installation Details	
Appendix B – Typical Field Inspection Reports	
B1 – For Work Associated with Service Lines Smaller than 1 1/2"	
B2 – For Work Associated with Service Lines Equal to or Larger than 1 1/2"	

### Firm's Responsibility:

Leading a collaborative effort with utility staff, Mott MacDonald developed the project goals, scope, roles and responsibilities, deliverables, and communication plan for the Utility. After equipment selection, Mott MacDonald prepared bid documents including specifications and details for procurement of contractors to install SMCUMA service and smart meter installations. The design effort included the development of new standards and details to account for several types of residential installations of various sizes, and locations (interior and exterior). Mott MacDonald also developed standards for commercial and industrial applications with various applications and locations. In addition to the standard details, Mott MacDonald developed Standard Operation Procedures (SOPs) defining how for the Contractor is to conduct work with SMCMUA customers. The SOPs included procedures for customer interaction, detailed documentation of existing conditions, a brief questionnaire for each customer, and approved only limited interruption of service.

Highlights of the implementation phase included:

- Technical Specifications for the AMR equipment
- SOPs for customer interaction, evaluation, duration of service interruption, customer satisfaction.
- An inspection protocol to standardize documentation of existing connection at each replacement location.
- Contractor's Testing and Geocoding procedures, with criteria for final acceptance and payment.
- A hazard analysis to address defective battery issues with existing MTU'

**Completion Date  
(Actual or estimated):**

Ongoing

### Estimated Cost:

**Entire Project:**

Est. 150K annually

**Work for which Firm was Responsible**

Est. 30K annually



## TEC Professional Services Questionnaire

PROJECT NO. 3		
<b>Project Name, Location and Owner's contact information:</b> <b>AMR/AMI Meter Replacement (Statewide - West Virginia)</b> West Virginia American Water   1600 Pennsylvania Ave, Charleston WV 25302 Jeff Ferrell, Operations Manager   Jeffrey.Ferrell@amwater.com   304-340-2976	<b>Nature of Firm's Responsibility</b>  See below.	
<p><b>Project description:</b></p> <p>West Virginia American Water (WVAW) provides service to 186,000 customers in 17 counties throughout West Virginia. WVAW was using a combination AMR and manual read meters. In 2013, Mott MacDonald assisted WVAW in a pilot project to install AMI water meters in one county. Based upon successful completion of that project, management decided to replace all of their water meters and transmitting units (MTUs) over a 5-year period.</p> <p><b>Firm responsibility:</b></p> <p>Mott MacDonald was responsible for locating 186,000+ meters state-wide to subfoot accuracy and tagging those meters with the current premise numbers. The data was imported into a master file geodatabase (FGDB) in ArcGIS and compared to a dataset from the client SAP to assign the corresponding premise number to each coordinate. Map books and spreadsheets were generated for each route when the meters were collected. Those deliverables were provided to the changeout contractors to locate each meter and record final readings and replacement meter numbers to be returned to the client for updating their SAP system.</p> <p><b>Lessons learned:</b></p> <ul style="list-style-type: none"> <li>Provided route maps and spreadsheets for changeout contractors and workflow to update master SAP database.</li> <li>Meter changeouts were scheduled to coordinate with meter read schedules to allow full route replacement outside of read sequence to minimize customer billing impacts.</li> <li>Quality Assurance review of data identified meter database discrepancies.</li> <li>Changeouts identified tampered, damaged, or leaking meter sets that were reported.</li> <li>Prior to entering areas, met with local law enforcement regarding scheduled activities.</li> <li>Customer Service Representative to mark meter locations to assist changeout contractor.</li> <li>Frequent progress meetings with the changeout contractor and project team.</li> <li>Inventory management support.</li> <li>Consultant provided field documentation and GIS quality control.</li> </ul>		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible</b>
2019	\$15M	\$2.5M

## TEC Professional Services Questionnaire

### PROJECT NO. 4

#### Project Name, Location and Owner's contact information:

**Smart Water Technology Evaluation & Piloting**

DC Water | Washington DC

Getachew Melsew | 202.787.2132gmelsew@dcwater.com

#### Nature of Firm's Responsibility

See below.

#### Project description:

To achieve strategic goals of optimally managing infrastructure and enhancing operating excellence, in 2017 DC Water kicked-off the Water System Sensor Program (WaSSP) to evaluate, pilot, and deploy remote sensors in the water distribution network. The program focused on remote pressure sensing, water quality monitoring, and hydraulic modeling. Multiple sensor designs were evaluated along with different wireless communications technologies to determine the optimum balance of reliability, capital costs, operating costs, data latency, and site selection.

#### Firm responsibility:

As a component of the Smart Water Program, the Water System Sensor Program (WaSSP) was established to help DC Water achieve the following objectives:

- Enhance water quality through water age, taste and odor, and disinfectant residual management leading to fewer customer complaints
- Achieve greater efficiency in system performance by reducing main breaks, non-revenue water, and power consumption
- Achieve a better understanding of water distribution and collection system performance with real time monitoring by operations staff
- Provide valuable insight into required CIP investments
- Increase use of water hydraulic models by operation staff



**Transient Pressure Monitoring:** This study focused on use of high frequency pressure data collection to detect and analyze pressure transients that could result in water main breaks. Detection and localization of transients was also evaluated as a means to identify water main breaks. All devices tested used cellular communications due to the higher amount of data required to record transient profiles. Different manufacturers were selected to compare how the signal is processed at the remote device (edge processing), sample frequency, sample frequency, transmission periodicity, power source, sensor/remote terminal unit (RTU) configuration, data delivery and web application.

**Distribution System Pressure Monitoring:** This study focused on use of less expensive devices that would regularly (i.e. every 15-30 minutes) transmit pressure data. Intended to be deployed in higher density, these sensors would provide frequent pressure updates across pressure zones to support real-time hydraulic modeling as part of a digital twin. These devices needed to have long battery life so Low Power Wide Area Network (LPWAN) technologies were included in the pilot. Technologies evaluated were Sigfox and LoRaWAN. As an alternative to LPWAN based equipment, solar power was also piloted as a solution to increase battery life.

**Water Leak Detection:** Continuous leak detection monitoring technologies were tested to assess way water main leaks are identified, prioritized, and repaired. New analytical models and tools enabled DC Water to reduce the risks of catastrophic pipe failures, monitor leak progression, and prioritize field crew schedules. Moreover, the technologies make it possible to identify non-revenue water from non-surfacing leaks, improve customer service through proactive planning and notification, and reduce pipe repair costs by reducing emergency repairs.

**Remote Water Quality Monitoring:** Water quality monitoring stations were designed, constructed and installed to provide real-time data on total chlorine residual concentration, ORP, pH, and temperature. The stations were designed to provide flexible communications options including WiFi, cellular, Sigfox, or direction connection to SCADA based on available signals at the installation site. The pilot evaluated maintenance, accuracy, operating costs, and reliability of different sensors. Design included fault detection to support remote troubleshooting as well as equipment protection. The equipment provided a test bed for subsequent design of portable contamination event detection systems.

**Completion Date  
(Actual or  
estimated):**

2019

**Estimated Cost:**


**Entire Project:**

\$600K

**Work for which Firm was  
Responsible**

\$600K

## TEC Professional Services Questionnaire

PROJECT NO. 5		
<b>Project Name, Location and Owner's contact information:</b> <b>Thames Water Smart Metering</b> Thames Water   London	<b>Nature of Firm's Responsibility</b>  See below.	
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;">  <div style="margin-top: 20px;"> <h1 style="color: #00a65a; font-size: 48px; margin: 0;">12%</h1> <p style="color: #00a65a; font-size: 14px; margin: 0;">reduction in water usage across the Thames Water region.</p> </div> </div> <div style="flex: 2; padding-left: 20px;"> <p><b>Project description:</b></p> <p>Thames Water is the UK's largest water provider (serving over 13.5 million customers). Up to 3 million new smart meters are being installed, allowing customers an almost real-time view of water consumption. This pioneering project will set a precedent for other regional water authorities. A \$120M program delivering the UK water industry's first move towards smart metering.</p> <p><b>Firm responsibility:</b></p> <p>Mott MacDonald acted as contract delivery manager of the new Smart Metering Fixed Network telecommunications system. The \$120M Fixed Network is a complex program involving state of the art communications infrastructure, implementation of a brand new IT system and installation of telecommunications masts across London. Mott MacDonald also supported the contract mobilization and roll out of the new technology across London. We worked with the technology suppliers and key stakeholders to deliver the optimum coverage for smart metering. This helped to reduce costs, maximize benefits and improve customer service.</p> <p>The program will deliver a 12 percent reduction in water usage across the Thames Water region. Water supplies in the area are seriously stretched, so this helps to manage the available water resources.</p> <p>Smart metering will also help pinpoint leaks, as data will show where unexpectedly high volumes of water are being used. The enhanced data will also provide better information about the operation of the water network.</p> </div> </div>		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible</b>
2015	\$120M	15%



# TEC Professional Services Questionnaire

## PROJECT NO. 6

### Project Name, Location and Owner's contact information:

**Metering Program**

Anglian Water | United Kingdom

### Nature of Firm's Responsibility

See below.

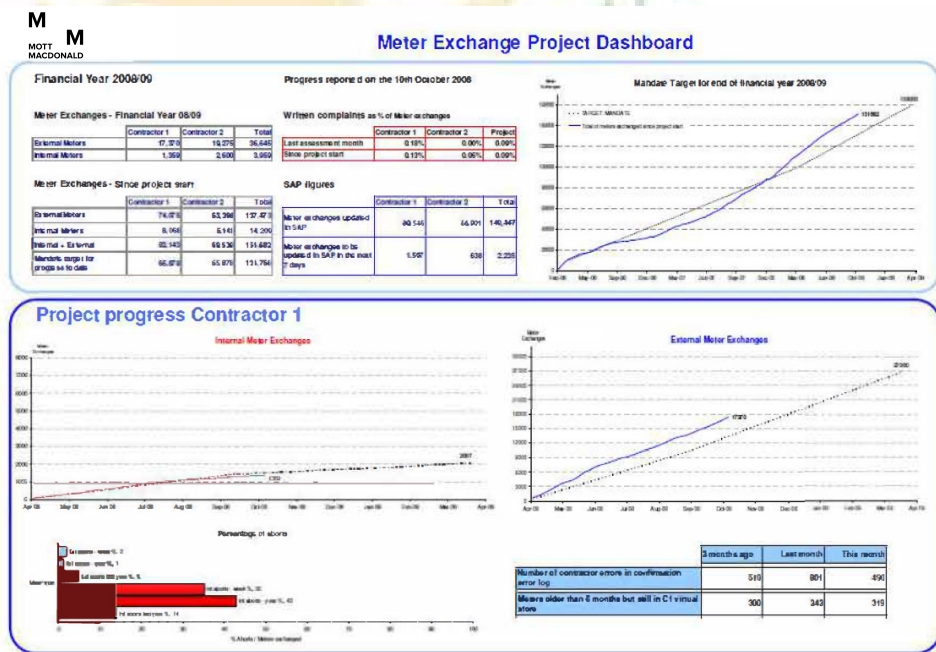
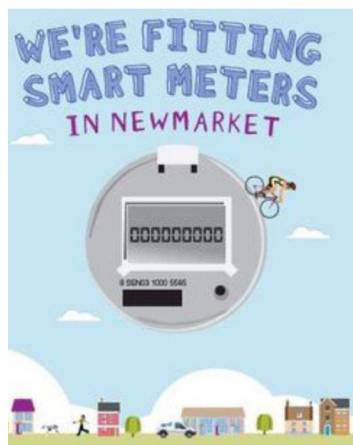
### Project description:

Under the "Wave Program" Anglian Water planned to install 86,000 new smart meters, upgrade another 412,000 meters and visit 120,000 customers to offer efficiency tips and install water-saving devices in 5 years.

### Firm responsibility:

Mott MacDonald managed the UK's first large proactive water meter exchange program for replacing 240,000 meters over 4 years, including a 6-month pilot project during which some 28,000 meter exchanges were completed. We provided project management and reporting, supervision of the contractors' work, site work oversight, managed updates to Anglian Water's ERP and databases, coordinated the meter replacement policy study, and supported project risk management processes and procedures.

We also provided field operation improvement studies and training. We completed research on economic replacement point based on laboratory testing of 1,400 meters. In terms of program management, we designed, established, and maintained a live program implementation dashboard covering field operation and successful customer account records updates as well as the volume of ERP corrupt entries to be solved. This process prevented and minimized billing issues due to fault meter serial number updates in the ERP.



**Completion Date  
(Actual or estimated):**

2010

**Estimated Cost:**

**Entire Project:**

\$10M

**Work for which Firm was Responsible**

\$5%

## TEC Professional Services Questionnaire

### PROJECT NO. 7

#### Project Name, Location and Owner's contact information:

**Jefferson Parish Pavement Management System**

Jefferson Parish, LA

Brook Burnmaster | 504.349.5800 | bburnmaster@jeffparish.net

#### Nature of Firm's Responsibility

See below.

Jefferson Parish sought a tool to better help them manage nearly 3,000 lane miles of roadway that the Parish Streets Department is responsible for maintaining. Their goal was to have an objective way to prioritize budgets and projects to repair the roads most in need. Mott MacDonald assisted the Parish in assessing pavement management software to find the best fit for their needs, and initializing the software based on pavement condition index (PCI) information.

Mott MacDonald was tasked with supporting Jefferson Parish in determining a pavement management software (PMS) that met their needs of evaluating and prioritizing maintenance projects within the Parish. The Parish needed an objective way to plan rehabilitation projects to best utilize the limited funding allocated for maintaining the roadway system.

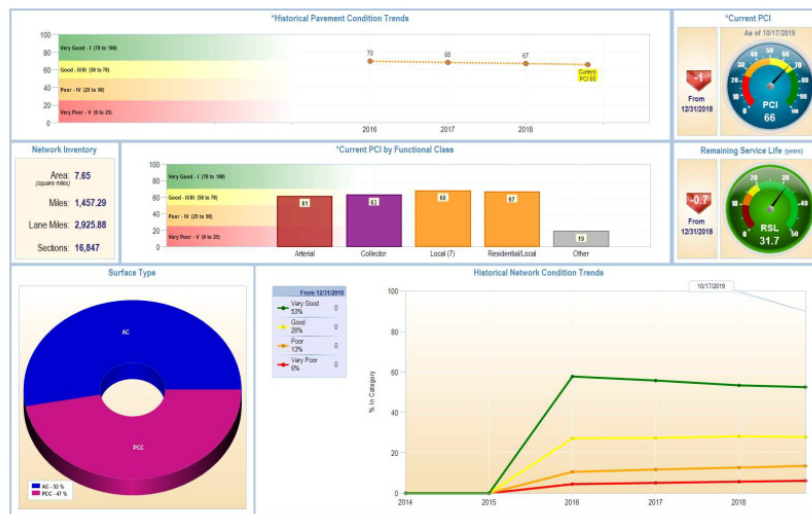
Utilizing data available through pavement scans of the roadways throughout the Jefferson Parish area, Mott MacDonald was able to help the Parish select a PMS system that met their needs and budget. After selecting the best fit software, Mott MacDonald assisted in compiling the data into the Streetsaver software program and performed an evaluation of the data for consistency and accuracy. A list of roadways that had received maintenance and rehabilitation (M&R) since the data was collected was used by Mott MacDonald to update the software. Our team met with the Parish to understand typical M&R strategies used by the Parish in order to input future repairs into the system to model future budgets and allow the Parish to use the software for capital programming.

The software allows the Parish to judge the need for rehabilitation of a specific roadway against another roadway based on the pavement condition index (PCI) calculated by the visible distresses seen in the pavement. Since the information is collected and evaluated by computer software, the ability to objectively assign values of pavement quality (0-100) to each road allows the Parish to appropriately order their future repairs. It also allows the Parish to better understand and respond to roadway complaints within the area.

Jefferson Parish

#### Executive Performance Summary

Run Date: 10/18/2019



#### Completion Date (Actual or estimated):

2019

#### Estimated Cost:

##### Entire Project:

MM was a subconsultant to Fugro

##### Work for which Firm was Responsible

\$180K



## TEC Professional Services Questionnaire

### PROJECT NO. 8

#### Project Name, Location and Owner's contact information:

**Barataria Waterline Extension (McMurtry Street to Trahan Street, Crown Point),  
JPW 2001-009-WR**

Jefferson Parish | Barataria, LA

Mitch Theriot, PE | 504.736.6751 | mtheriot@jeffparish.net

#### Nature of Firm's Responsibility

See below.

#### Firm responsibility:

Mott MacDonald personnel provided design services for the replacement of the existing 8" and 12" waterline.

#### Project description:

The following design elements were included in this \$360,000 construction project performed by Mott MacDonald personnel:

- Repair Water Service under tree
- Offset 12" Waterline
- Hydrant AWWA 502 (Mueller, Kennedy, or Darling)
- 12" Gate Valve (Pratt, Mueller, M&H, Clow, Dzurich)
- Close and Open water valve
- Valve Box
- 12" PVC C900 (Jack or Bore)
- Renew Existing Long Water Service (.75"-1")
- Renew Existing Short Water Service (.75"-1")
- Transfer Short Services from Ex. Waterline to New
- Transfer Long Services from Ex. Waterline to New
- Top Soil
- 8" PVC C900 (Open Cut)
- 12" PVC c900 (Open Cut)
- River Sand
- Crushed Limestone
- Remove and Replace Asphalt Pavement
- Water Manhole



**Completion Date  
(Actual or  
estimated):**

2006

#### Estimated Cost:

**Entire Project:**

\$360k

**Work for which Firm was  
Responsible**

\$145k

## TEC Professional Services Questionnaire

### PROJECT NO. 9

#### Project Name, Location and Owner's contact information:

**Bourbon Street Major Repairs (Canal-Dumaine)**

City of New Orleans, LA

Josh Hartley, PE | 504.658.8042 | jwhartley@nola.gov

#### Nature of Firm's Responsibility

See below.

#### Project description:

The City of New Orleans needed to fully reconstruct eight blocks of utilities underneath Bourbon Street without retracting from the historical aspects of the French Quarter. Mott MacDonald was selected to creatively address the sensitive design needs.

Understanding that Bourbon Street had not undergone any reconstruction in over 90 years, the City of New Orleans saw a need for a major infrastructure improvement. This included upsizing the existing stormwater infrastructure, replacing the existing water lines, repairing the existing sewer lines, replacing and improving the existing low-pressure gas lines, replacing the existing underground electrical conduits and duct banks, and replacing the existing pavement, sidewalks and ADA ramps.

Mott MacDonald developed an approach to address the time constraints and unknown variables relating to underground utility and infrastructure. Awarded as a fast track construction project, our design team agreed to be at least one block ahead of the contractor while simultaneously updating designs within hours of gaining new field information. With the expectation of facing many drainage and other utility conflicts our team provided real time design solutions.

Although the project goals were to replace the existing utilities, our team identified and recommended an opportunity to provide flood prevention. The main causes of flooding on Bourbon Street were undersized drainage systems and especially, the clogging or collapsing of existing drain lines due to directional boring utilities and large amounts of littering and debris. By maintaining a sustainability and environmentally conscious mindset, Mott MacDonald pro-actively designed adequate drain line sizes and new curb-guards on the stormwater inlets to vastly reduce the ability of litter to enter the new stormwater drainage system.

There were numerous positive outcomes as a result of the completion of this project, including: fast-track comprehensive design approach, value-added and insightful utility upgrades, the use of innovative curb guards to protect new infrastructure, maintaining one travel lane open during a 10 year storm event, and bringing the City of New Orleans a final project design that will survive the challenging conditions on Bourbon Street.

#### Firm responsibility:

The City of New Orleans selected Mott MacDonald to provide Engineering, Construction Administration, and Resident Inspection services for the repair of Bourbon Street surface and underground infrastructure from Canal Street to Dumaine Street as part of the Citywide Public Safety Improvement Program. The project commenced in April 2017 and will take approximately nine months to complete. Mott MacDonald coordinated and sequenced construction after engaging the City of New Orleans, Department of Public Works, The Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors.



Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible
Ph. 1: 2018 & Ph. 2 2020	\$20.5M	\$2.4M

## TEC Professional Services Questionnaire

**M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.**

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A	N/A	Mott MacDonald does not have or has ever had any adversarial legal proceedings involving Jefferson Parish.
2.		
3.		
4.		

**N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.**

### About Mott MacDonald

A core aim is to make a sustainable difference to the world we live in. That translates into a focus on understanding you and your customers, and to deliver outcomes that add value. We work best in partnership, helping you to establish the steps needed to meet your strategic ambitions, using analytical front-end advice that helps plan, design, deliver and sustain your goals.

Mott MacDonald is an employee-owned, full-service consulting firm offering quality planning, engineering, and construction management services for both public and private clients through our local office in New Orleans and across the globe.

We are focused on guiding our clients through many of the planet's most intricate challenges. Mott MacDonald offers a unique blend of technical, financial, and social/environmental expertise, practical experience, and a time commitment to successfully complete each project assigned to our firm. Our engineers and our program and project managers have taken lead roles in the world's highest-profile water utility projects for long-term clients such as American Water, Aqua Water, DC Water, and the City of Atlanta, and will bring this experience to the table to benefit Jefferson Parish.





# Evaluation criteria

## 1.

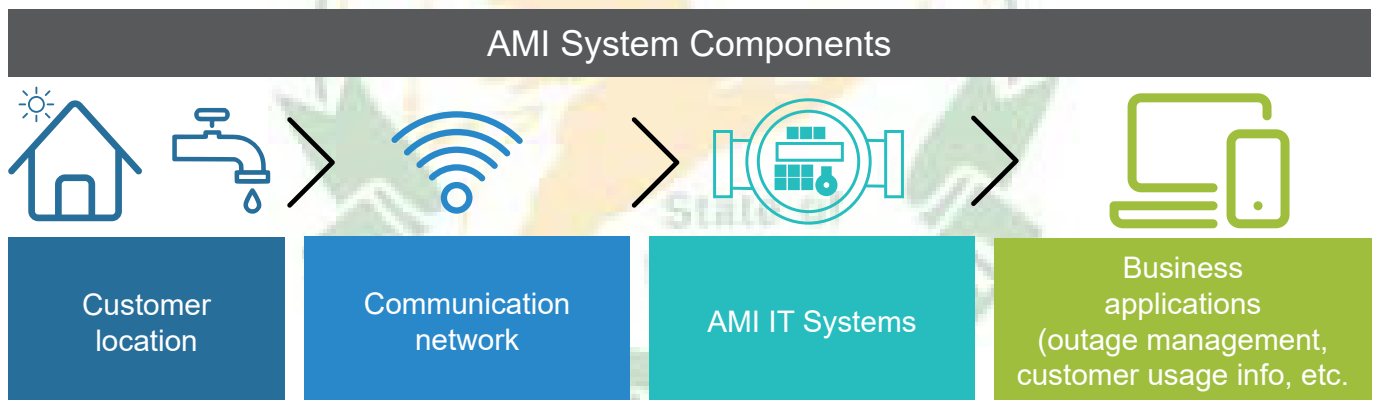
### Professional training and experience in relation to water meter infrastructure

#### A. Familiarity with Jefferson Parish

The Mott MacDonald team, in association with N-Y Associates, is well qualified to execute this important program for Jefferson Parish. The AMI metering program will build upon our new assignment and familiarity with the Parish as we perform a water assessment of aging pipelines and develop the phased and prioritized replacement of the most critical water mains throughout the Parish. Both projects are complementary and each assignment will benefit the other, helping the Mott MacDonald - N-Y Associates Team ramp up execution of both projects quickly and efficiently.

The Jefferson Parish AMI initiative will fundamentally transform the Parish's relationship with its water customers by helping them become active water consumers. The initiative will provide customers with the information necessary to help manage their water usage, control cost and help the environment. Jefferson Parish will in turn receive better accuracy in billing, lower costs and increased customer satisfaction.

An AMI system has 3 major components: 1) smart meters with communication modules, 2) a common network and 3) office information technology systems to manage two way communications enabled by AMI and incorporate that into Parish business applications such as work order processing billing and customer relations.



Mott MacDonald and N-Y Associates are your experienced and trusted team to execute this important project and our firms have a long history working in and around Jefferson Parish. In addition to our strong local performance, Mott MacDonald has been a leader at the forefront of AMI technology implementation, beginning in 2010 with the procurement and implementation of 3-Million smart meters for Thames Water, (England's largest water utility serving over 13.5 million customers). Since that time, we have continued to expand our AMI expertise for clients in the United States.

Leveraging our international expertise, Mott MacDonald recently completed the implementation of 88,000 Advanced Meter installations in under three years at DC Water, (Washington DC utility with 140,000 customers). Mott MacDonald has assembled a trusted and experienced team to serve Jefferson Parish, built upon a foundation of technical experts who truly understand AMI implementation and have learned valuable lessons from other successful projects that may be applied to Jefferson Parish.

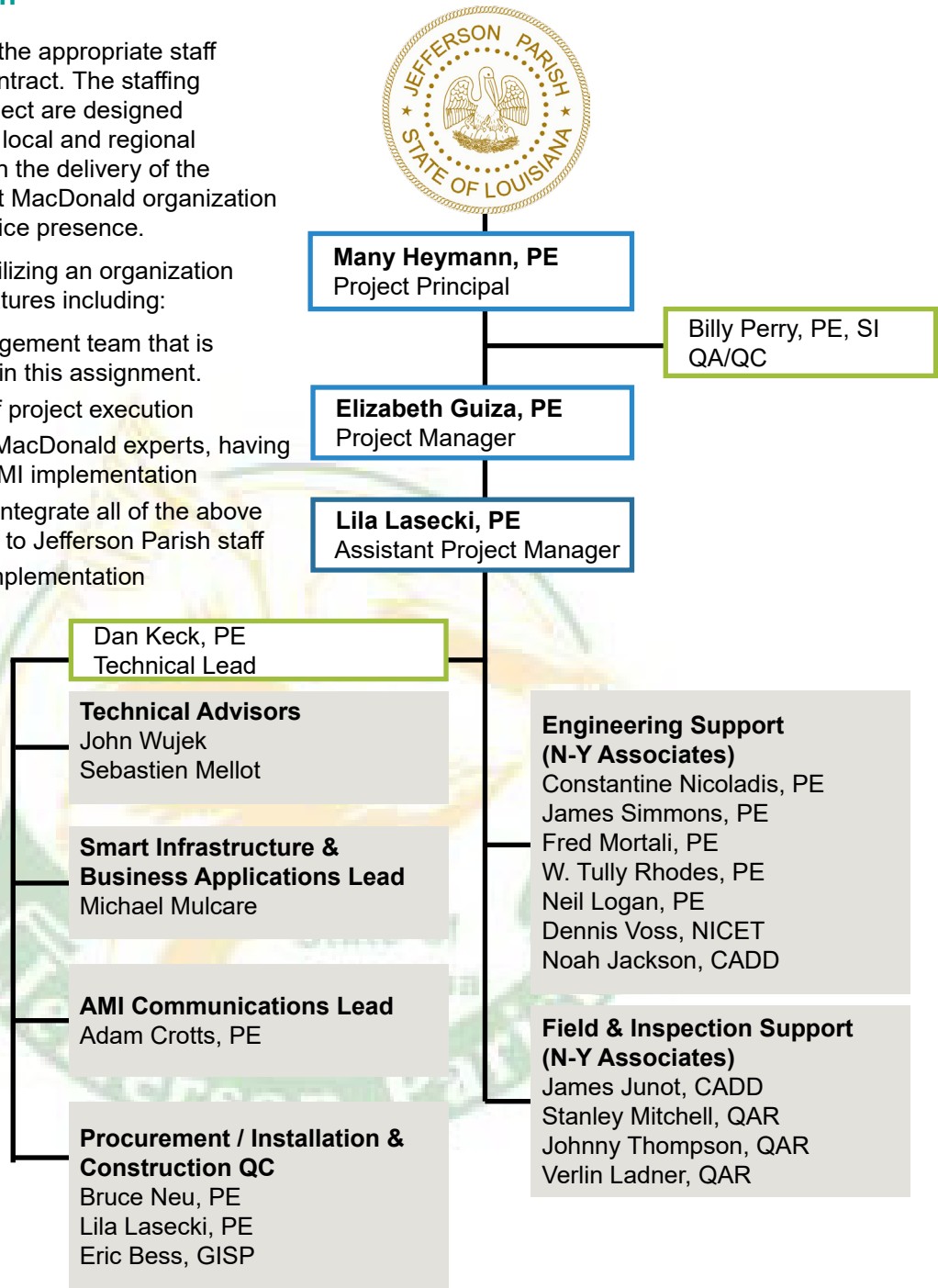
**Mott MacDonald has been a leader at the forefront of AMI technology implementation, beginning in 2010 with the procurement and implementation of 3-Million smart meters.**

## B. Project organization

Mott MacDonald will deliver the appropriate staff to effectively execute this contract. The staffing and organization for this project are designed to provide value through our local and regional staff as well as be effective in the delivery of the capabilities of the entire Mott MacDonald organization through the New Orleans office presence.

This will be accomplished utilizing an organization that provides several key features including:

- Experienced project management team that is available and ready to begin this assignment.
- Local presence for ease of project execution
- Direct connection to Mott MacDonald experts, having significant credentials in AMI implementation
- Information technology to integrate all of the above elements and deliver them to Jefferson Parish staff
- Significant local staff for implementation





### C. Our key management and AMI staff

Together with these experts, the local and regional Mott MacDonald project management and engineering team are well supported to execute AMI implementation efficiently and effectively.



#### **Many Heymann - Principal-in-Charge**

Mr. Heymann will be responsible for leading the project team and serving as the primary point of contact between the Jefferson Parish Water Department and the Mott MacDonald team.

Mr. Heymann is responsible for coordinating work plans, and meeting required project objectives, budgets, and schedules. As described in the synopsis of his qualifications and experience, Mr. Heymann has played key management and technical roles in previous water projects in the Jefferson Parish, as well as some of the most complex multi-disciplined projects in Louisiana.



#### **Elizabeth Guiza, PE - Project Manager**

Ms. Guiza is located in our New Orleans office and will serve as our project manager responsible providing strong leadership and guidance while coordinating the tasks for our team members and working closely with Many and the Parish.

As a project manager, she has successfully managed all phases of project development from planning to design and implementation. She is also familiar with Jefferson Parish's preferences, policies, and procedures having managed numerous civil engineering projects for the Parish.



#### **Daniel Keck, PE - Technical Lead**

Mr. Keck will lead our technical team and coordinate with a strong support team of technical advisors to provide guidance to our local team for planning and execution of the AMI project.

He will facilitate effective working groups of all stakeholders within Jefferson Parish to drive positive results of the teams efforts and secure cost effective and proficient AMI meeting the technical standards of Jefferson Parish.



#### **John Wujek - Technical Advisor**

John brings extensive knowledge of program management and requirements for AMI implementation.

John was the program manager for DC Water in charge of the Advanced meter installation involving over 88,000 smart meters.

John has deep knowledge of fast track AMI implementation in urban settings, managing multiple project teams, and coordinating stakeholder engagements. His recent work has focused on building and managing AMI project teams, customer communication, issue resolution, and management reporting.

## TEC Professional Services Questionnaire



### **Sebastien Mellot - Technical Advisor**

*Sebastien is the world class leader in large utility AMI implementation.*

Mr. Mellot has been involved with AMR/AMI programs since 2010. His earlier AMI projects include the first large proactive smart meter program in the UK (Anglian Water), Southern Water's Intelligent Meter Program (2010-2015) and Thames Water's Smart Water program. He has managed feasibility studies, economic analyses, technical survey of smart metering systems, vendor evaluations, pilot testing, and meter installations.

Sebastien provided technical advice on demand management, Non-Revenue Water reduction, and AMI system implementation. Recently, he has been involved in assessing alternative project delivery (Public-Private Partnerships) options for Non Revenue Water reduction and AMI projects.

AMI implementations are massive transformation programs which typically require 3-5 years for a full-scale rollout. One particular challenge is technology transformation: The imminent rollout of smart metering in the short to mid-term will require vital investments in information technology for setting up turnkey projects for smart metering network and application infrastructure. It will be necessary to build upon components like:

- Mass deployment of smart meters
- Meter reading databases and applications
- Data warehouses and analytic tools & data migration programs
- Customer interfacing applications and portals
- Integration with existing business and work-order systems



### **Michael Mulcare - Smart Infrastructure & Business Applications Lead**

*Michael Mulcare is assigned to the team to provide expertise in integrating these systems.*

Mr. Mulcare is Mott MacDonald's Smart Infrastructure Leader with focus on smart networks, big data, data analytics, and enterprise asset management systems. He has extensive experience in the deployment of Enterprise Asset Management systems including requirements development, deployment of hosted environments, software configuration and testing, procedure creation, extraction of data from legacy systems, data cleansing, and data migration, user training, system validation; deployment of IBM Maximo CMMS; SCADA and Oracle integration coordination; management of multifaceted engineering and IT projects including evaluation and deployment of new instrumentation platforms; and integration of new process, control, and information technology.

He has recently been involved in DC Water's AMI Sensor program comprising evaluation and pilot testing of sensors within the AMI network, developing the communication and data network, data analytics and publishing applications.

Reliable two way communications between the smart meters and the data center are critical for the success of the AMI system. In Jefferson Parish, distance and potentially congested frequency bands are likely obstacles that must be overcome. Strategic repeater locations and communication strategies are required for reliable communications. Knowledgeable oversight and direction to vendors who will evaluate radio path communications and protocols is critical.



### **Adam Crotts - AMI Communications Lead**

*Adam Crotts is assigned to the team to provide his extensive Gulf Coast communications experience.*

Mr. Crotts has a strong history of system communications experience along the Gulf Coast. He has implemented radio and microwave based communication systems for oil, gas, water and transportation smart systems in areas all prone to hurricane impacts. Adam brings a strong emphasis of resiliency and reliability to smart infrastructure projects that rely upon all forms of communication and system connectivity.

### **D. Lessons learned from the DC Water AMI Meter Conversion Project**

Collaboration must serve as a foundation of our project approach for this is a truly integrated and complex venture. The implementation of advanced metering infrastructure requires a collaborative effort among all utility departments including Billing, Procurement, Public Relations, IT support, Customer Services, and Field staff. Your trusted team will work side-by-side with all departments within Jefferson Parish water throughout all phases a project implementation. We have used this approach before successfully at other large utilities such as DC water and have learned many lessons to improve the process.

Relying on our strong AMI experience at other utilities, the Mott MacDonald team has formulated a specific approach to evaluate vendors and procure the AMI metering system best-suited to Jefferson Parish and will implement the new system within the capital spending budget allotted by the Board. Lessons learned during the DC Water implementation that are recommended for Jefferson Parish include:

#### **Program Governance/ Framework**

The creation of the Executive Oversight Committee highlighted the criticality of the program and DC Water staff were held to task. The implementation of a Program Management Office (PMO) with the eight teams helped streamline communications, tracking and oversight. The blended team (mix of consultant and DC Water staff) provided cost effective resourcing to manage the program.

#### **Importance of Field Operations**

The initial direction was to manage this effort without field support - desktop review of data/photos and desktop follow-up or new work orders. Engaging field operations was critical to mitigating issues in the field and limited DC Water risks. (Field operations was present for most inside appointments).

#### **Proper Planning/ Feedback**

Prior to commencing field installation work, there was an investment to kick-off the program internal to DC Water, obtain the institutional knowledge from key field staff and coordinate start - up conferences with contractor. This effective approach helped define workflows, data exchange requirements, customer notifications, water quality flushing requirements and data to be collected. On a regular basis, DC Water attended the contractor morning scheduling meetings to provide the needed feedback, as required.

### E. Guiding you from procurement through completion

AMI Implementation generally involves 3 components:

1. Implementation planning
2. Communications, IT and business application integration
- 3 Implementation of equipment and systems



#### **Implementation planning**

Implementation planning will focus on RFPs, technology/vendor selection and procurement. It is critical to understand that the bulk of the work remains after a vendor has been selected and bids are received. Based upon Mott MacDonald's experience with implementing AMI at other utilities, we expect the overall workflow to follow a general outline similar to:

#### **Communications and IT Network Design - Identify IT Platform, Business Applications Implementation and Communications**

Implementation of AMI technology will require selection and deployment of a system tailored to Jefferson Parish business needs providing capability to remotely gather and analyze meter data from individual customers to provide timely information on consumption, understand usage patterns, improve modeling, and detect potential leaks. Based on over a decade of planning and implementing AMI systems, we recognize that multiple systems must work seamlessly to realize the benefits of an AMI system.

Mott MacDonald brings unparalleled experience to the Jefferson Parish AMI Project. Our team has worked on numerous AMI projects, and this experience means we are able to understand the technical details of the component aspects of an AMI system and assess how best to make them work together to deliver a high-performance system that achieves current objectives and a platform for future capabilities. Moreover, through insightful design and integration of meter technology, communications infrastructure, databases, and software interfaces, Mott MacDonald will assist Jefferson Parish develop and deploy a system to enhance water conservation, customer service, operational efficiency.



## TEC Professional Services Questionnaire

The Mott MacDonald Team will investigate Jefferson Parish's existing systems to determine how AMI will interface with them or perhaps if certain systems may require upgrading to fully realize all the goals Jefferson Parish has identified. The primary systems that will require integration include:

**Communications System:** System-wide communications may require consideration of fixed station placement of both licensed and non-licensed transmitters. However, coordination with Jefferson Parish and permitting by the FCC will be required for fixed licensed transmitters.

**Customer Information System:** Many Customer information systems are built on a SQL or Oracle database. The deployment of AMI accompanied with changes to the Meter Data Management System (MDMS) will require changes in how the data is exchanged with Jefferson Parish's billing system to ensure that problems are avoided and there will be a seamless transition to the new system.

**Meter Data Management System:** AMI vendors frequently bundle MDMS with their solution. However, selection of the Meter Data Management System is not fixed to the meter vendor. Additionally, determination of what data to manage in the MDMS versus the planned Computerized Maintenance Management System (CMMS) is to be considered. The optimal solution will be assessed based on multiple criteria including ease of integration with existing applications and a future CMMS, cost, functionality, security, usability, vendor credentials and stability, and data integrity controls.

Mott MacDonald has specific experience in fully integrating one of the most comprehensive GIS systems with AMI for American Water in West Virginia. The high level of detail allowed planning for phased replacement of Meter Transmitting Units (MTUs) through GIS queries guiding contractor work at a pace matching budgeted inventory procurement.

**GIS and CMMS Integration:** Exchange of data between the MDMS and GIS and the planned CMMS dramatically enhance operating efficiency and provide more effective management of the AMI.

**IT Infrastructure:** Based on the proposed AMI solutions, MDMS, and integration with other enterprise applications, IT infrastructure updates will be required. Jefferson Parish's data storage, backup, redundancy, failover, capacity, security, access control, and other considerations must be integrated with the new AMI solution.

**Customer Interface:** With the availability of near real-time data on water usage, consumption trends, and the ability to perform analytics and generate alerts for customers, evaluation of potential customer interface deployments will be evaluated. What information from MDMS can be used, how to visualize it, and what web-based portal is used for customer interface are important decisions for Jefferson Parish to select.

Once we understand Jefferson Parish's existing IT and networked systems, Mott MacDonald will assist Jefferson Parish develop and establish goals, constraints, criteria, and timeline for specific deliverables.

Mott MacDonald proposed to meet with stakeholders in joint meetings with the Jefferson Parish AMI Project team. Stakeholders may include representatives from Engineering, Maintenance, Finance, and Information Technology. There are three main objectives for these meetings:

- Meet project team members to begin building working norms and relationships with key stakeholders
- Gather detailed information on the current process/system including:
  - Mapping current process to record flow of people, materials, and data
  - Documenting all software used including vendor, version, and Jefferson Parish specific configuration
  - Identify any Jefferson Parish policies, procedures, and/or standards applicable to IT systems and metering infrastructure
  - Determine any special requirements, issues, concerns specific to Jefferson Parish operations



## TEC Professional Services Questionnaire

Together, the Jefferson Parish AMI Team and stakeholders will develop an implementation plan considering how the following factors and Jefferson Parish preferences may impact the implementation of AMI.



### Schedule for Implementation

- Lead time for delivery and duration of installation, commissioning, and verification



### Difficulty of installation

- Required utilities, equipment, and materials
- Number of crews, time to install, and complexity of configuration
- Special programming or testing



### Compatibility with existing systems

- Network connectivity and integration with other applications
- Required retrofit of water meters hardware



### Frequency Compatibility

- Required permitting
- Frequency, power, elevation, geography



### Expected system and component service life

- Battery life and component failure rate
- Base station reliability, firmware/software upgradeability, technology platform



### Proven technology

- Number & age of existing installations in US
- Historical warranty issues



### Quality of data

- Data resolution, call-in frequency, and internal data backup
- Meter long-term accuracy



### CAPEX costs

- Equipment purchase, installation, and support
- Software licenses configuration, and testing
- Legal fees, contracts, and permitting



### OPEX Costs

- Software licensing and data hosting fees
- Cellular network fee (if applicable)
- O&M of meters, transmitters, and network hardware



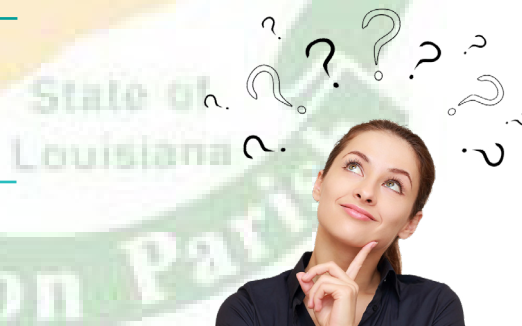
### Other benefits

- High usage alerts, leak detection, or other water usage monitoring
- Capacity to leverage communication network for other types for data collection



### Future capability - smart infrastructure

- Platform standardization and/or planned obsolescence
- Upgradeability, expandability, flexibility



### Public Outreach Prior to Installation Services is Critical

Similar to Jefferson Parish, Mott MacDonald actively worked with DC Water to manage the public impacts of their new AMI installations. The outreach program should emphasize the goals of the AMI program including, improved customer service, leak detection, abnormal usage patterns, and real-time consumption. Mott MacDonald has also helped DC Water to manage pressure increases in the distribution system providing public meetings, door hangers, certified letters and coordinating website information to help customers transition to the newer systems as smoothly as possible. While a perfect transition is rare, preparing for potential issues and initiating a public awareness campaign is the most effective approach to getting there.

### Common Goals of Public Outreach Campaign

#### To explain benefits

- Faster and more accurate bills.
- Early leak detection to save money.
- Cost control with real-time data.
- Green solution to help reduce water waste.

#### To address common questions

- What if I don't want a smart meter?
- What if I don't want utility workers on my property?
- How do I know who are authorized contractors?
- Will I be fined if I do not allow worker on my property?

## TEC Professional Services Questionnaire

**Expertise in action:** Similar to Jefferson Parish's solicitation, Mott MacDonald recently assisted Southeast Morris County Municipal Utilities Authority assist with technology selection, developing procurement methods and documents to implement AMI metering technology throughout the county, for all residential, commercial and industrial customers.

### **AMI Implementation, Including Installation Services for Smart Meters**

There are several critical factors that must be clearly established prior to performing any work. Detailed installation instructions are necessary to ensure the contractors performing this work are consistent in their approach. A meter installed and coded to an incorrect radio signal can erode public confidence and result in numerous questions from customers.

**Installation Details:** New details may need to be developed to illustrate installation requirements for the meter vaults enhancing Jefferson Parish current standards to streamline future maintenance requirements.

**Installation Manual:** Mott MacDonald will develop a Jefferson Parish specific manual for this work. The contractor will be provided with detailed information on the meters that they are to install/replace. Field technicians could be provided with this information on tablets which coincides with the "installation manual". This forces installers to follow the installation process in a very linear manner thus preventing skipping required steps or disabling actions. If something does not appear to be as planned, the contractor must contact Jefferson Parish or the Mott MacDonald team for resolution to properly install the AMI equipment. The installation manual will include five key areas that a contractor must follow as follows:

- Locate meter and initiate customer engagement
- Assessment and confirmation of meter number
- Shutoff of system
- Installation of AMI equipment (meter and/or Radio Transponder)
- Restoration of Service

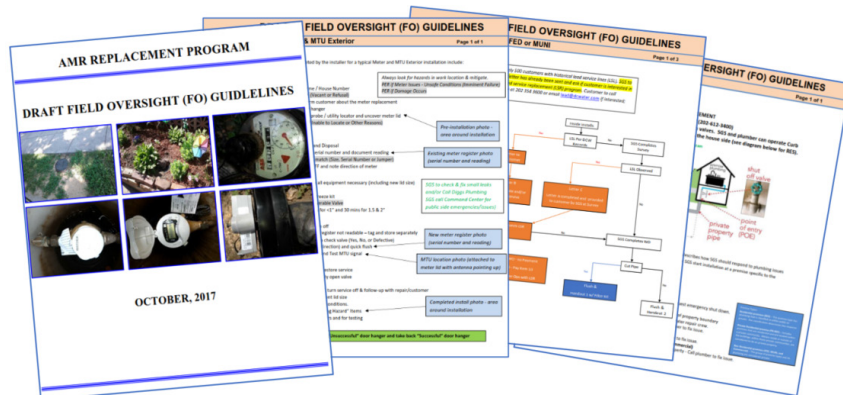
**Jefferson Parish Maintenance and Operations Support:** Meters and MTUs can last for 10 years without maintenance. However, Standard Operating Procedures (SOPs) for meter and reporting equipment diagnostics will need to be in place and training provided to Jefferson Parish metering staff. This should include videos, written documents, and numerous photographs to assist with training and maintaining current staff understanding and for training new staff on how to maintain the equipment.

Example pages from a recent project for DC Water are shown below. Ultimately, the work we have performed for our clients will ensure that the Jefferson Parish AMI Program is a success.

### **Learning from past experiences: Single Contractor Responsibility.**

One of the most critical lessons learned from the DC Water project and recommended for this project is: Single Contractor Responsibility.

The program had multiple equipment suppliers and a separate installation vendor. In lieu of this arrangement, it was recommended that a single contract (purchase and install) be used for future projects. This will transfer the risks of coordinating multiple vendors to a single contractor.



## TEC Professional Services Questionnaire

### **Jefferson Parish Maintenance and Warranty Support**

Mott MacDonald has a responsibility to our clients to deliver a sustainable program. Part of that sustainability is the long-term operation of the AMI system selected. Mott MacDonald is ready to assist Jefferson Parish on the long-term maintenance and support of the new AMI equipment as required. This may include annual training refresher courses on maintenance and assistance with billing management services.

### **Management of the Project and Coordination with Jefferson Parish**

Mott MacDonald understands that it is our responsibility to assist you in areas where the synergy of our expertise and your needs intersect. Many Heymann, Mott MacDonald's Project Director, Elizabeth Guiza, the Project Manager and Daniel Keck, the Technical Team Leader, will meet with Jefferson Parish to review the scope of services and establish a schedule for deliverables included in the request for proposal. Following this discussion, members of the Mott MacDonald team will interview those involved and begin the process of developing a detailed Project Work Plan that will include the following:

**Scope:** A detailed task scope, capturing the objectives of the program, based upon our understanding of the required professional services. Potential items to be included in the scope of work include:

- Recommended makeup of the Jefferson Parish project team for AMI Implementation
- Capacity of Jefferson Parish's staff to support the project
- Determine the probability of the goals and objectives being realized
- Define the risks and detail the strategies to avoid the risks
- Identify the key performance indicators providing successful indicators to monitor
- Develop comparative costs/benefit analysis of AMI systems considered
- Provide detailed recommendations
- Implementation Schedule to include
  - Procurement schedule
  - Field Implementation schedule

**Schedule:** A CPM schedule with Work Breakdown Structure (WBS) showing key task (project) milestones and major deliverables. The schedule, typically developed with MS Project software, will be resource loaded allowing development of a task budget and enable the Team to manage the project. Critical items on the schedule should include: key deliverables, review cycles, and activities requiring coordination of resources between Jefferson Parish, Mott MacDonald, or other parties.

**Budget:** A Not-to-Exceed budget will be developed based on the inputs of staff identified in the resource loaded schedule and their base salary rates.

**Communication:** We understand that project success is ultimately the result of effective and frequent communications between our project team and Jefferson Parish project team and stakeholders. To accomplish this, Many Haymann and Elizabeth Guiza will communicate the task status and progress by using four reporting methods as follows:



**Weekly Reporting:** An email update will be provided to Jefferson Parish Project Manager indicating progress for the week and key sub-tasks undertaken. These emails are typically short and include bulleted summary points of the week's progress.



**Weekly Phone Meeting:** A weekly phone conference is recommended with key team members working on specific tasks and the Jefferson Parish project team. Task progress will be briefly outlined, discussed and confirmed. These brief meetings would be expanded if necessary but the intent is to check project status, identify concerns, and address scheduled progress. If in-depth conversations are necessary, team members associated with those subject matters are called upon after the group meeting for follow-up directly with the Jefferson Parish project team.



**Monthly Progress Report and Meetings:** A task status report would be provided monthly to the Jefferson Parish Project Manager. These monthly reports will be reviewed at the monthly task progress review meetings. The monthly report will typically include the following:

Task schedule updates and review

- Scope review
- Budget review
- Status of required permits or other jurisdictional requirements
- Listing of planned and actual accomplishment for the month (milestones)
- Discussion of technical issues/impacts
- Potential project roadblocks and recommended alternatives to correct
- Stakeholder feedback
- Issue escalation and resolution

## TEC Professional Services Questionnaire



**Phase-Gate Review Meetings:** It is typical for detailed meetings to occur upon the submission of major milestone reports and/or contract documents to Jefferson Parish. Typically, these meetings are 60 to 90 minutes in duration and include the Mott MacDonald Project Director, Project Manager, Task Leaders, and Jefferson Parish project team and subject matter experts/task sponsors. Known as “Phase-Gate” meetings, they require decisions for task activities to transition from one phase to the next. Need and timing of these meeting will be determined during the project kick-off meeting. With the Phase-Gate meetings in place, the conclusions and recommendations developed by the “team” end up being the result of combined efforts by Jefferson Parish and Mott MacDonald.



### Develop the Project Quality Plan (PQP) Guidance

#### xx. Mott MacDonald's Commitment to Quality

Mott MacDonald is committed to providing quality services to our clients through our mandatory, proprietary Business Management System (BMS) that complies with ISO 9001: 2015 Quality Management Systems requirements. Our Project Principal for this project (Many Heymann) is responsible for making sure that these initiatives are completed according to the mandated requirements.

STEP, our fully-integrated Business Management System (BMS) ensures we deliver services that satisfy our clients and instills a culture of continual improvement. STEP is an online system to which all staff have access. It comprises:

**Group policies:** Describes our commitment, responsibility and approach to quality, environment, health and safety, risk and opportunity management, information security and ethics.

**Group directives:** Sets the management framework

**Requirements:** Outlines compliance with the mandatory elements of standards applicable to our services

**Guidance:** Provides advice in support of instructions

**Process models:** Depicts processes and activities through flow carts

**Storyboards:** Illustrates role-based user guides

STEP makes us more efficient, allowing us to focus on providing you with a consistently high quality service and adding value to your projects. Having a common way of working generates opportunities for innovative thinking and sharing of best practice, to reduce risk and maximize opportunities at every stage of a project.

We know that with every deliverable, our reputation is at stake. Therefore, every deliverable is reviewed by a party within Mott MacDonald not directly involved with the project to provide Quality Control and Quality Assurances. Ultimately, it is our responsibility to our clients to deliver quality work product. We take this seriously.

#### ISO 9001 Accreditation

As a part of our commitment to quality, Mott MacDonald submits our procedures to external assessments carried out by independent nationally accredited assessors. This assures an independent evaluation of our policies and procedures and substantiates The ISO 9001 accreditation is an independently verified certification that Mott MacDonald has established a formal Quality-Assurance program and verifies that we actually follow those procedures. We have invested in this certification as a commitment to our clients that quality will be upheld throughout our work products.



The Mott MacDonald team will at all times maintain sufficient resources to achieve the project in a timely and efficient manner.

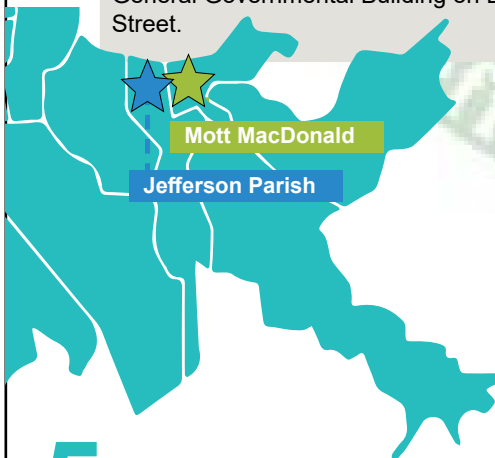
## 2.

### Capacity for timely completion

The Mott MacDonald is presently prepared and available to begin working with the Parish immediately if awarded the contract. Based on our understanding of this project's scope and schedule, our currently contracted work and estimates of anticipated future work for the same period, Mott MacDonald believes that the proposed service levels of staffing are more than adequate to handle this project for Jefferson Parish.

We commit to maintain sufficient resources to achieve each project task in a timely and efficient manner. Although we are only highlighting our most experienced and relevant staff, we also have many junior and support staff in the same offices who will efficiently perform the work under the direct supervision of our project manager and task leads. Furthermore, if additional resources or technical expertise are desired or required, those resources will be made available to the Parish.

Our New Orleans office is located in Orleans Parish - just **six miles** from Jefferson Parish's General Governmental Building on Derbigny Street.



## 3.

### Location of principal office

The location of the principal office where work will be performed is Mott MacDonald's New Orleans office located at 650 Poydras Street, Suite 2025 in New Orleans, Orleans Parish. This office includes 13 professional staff and is a 13-minute drive (6.1 miles) from Jefferson Parish's General Governmental Building on Derbigny Street. This close proximity will allow our experienced staff to be on-site when you need us. Additionally, our subconsultant, N-Y Associates, will provide services from their Jefferson Parish office located at 2750 Lake Villa Drive, Metairie, Jefferson Parish.

By having our local Principal-in-Charge, Many Heymann, PE, Project Manager, Elizabeth Guiza, PE and other team members nearby, we are confident that we will be able to provide timely, efficient, and cost-effective service to your team during all phases of the project.

# 5

total engineers  
in New Orleans

# 20+

staff proposed for  
this project



## 4.

### **Adversarial legal proceedings**

Mott MacDonald does not have or has ever had any adversarial legal proceedings involving Jefferson Parish.

## 5.

### **Prior successful completion**

Our experience in successfully completing similar projects have assisted utility companies overcome mounting challenges from population growth, greater consumer expectations, tighter budgets, and finite natural resources. Below are just a few highlights for our successful projects shown in Section L.

#### **DC Water**

Since 2001, Mott MacDonald has successfully managed DC Water's complex water system resulting in improved water quality, fewer main breaks, more accurate modeling and planning, clearer communication, and more satisfied shareholders.

#### **The Southeast Morris County Municipal Utilities Authority (SMCMUA)**

Mott MacDonald provided professional services to convert SMCMUA's meter and billing system to Advanced Meter Infrastructure (AMI). We designed the installation of smart water meters w/meter transmitter units (MTU's) and produced bid contract documents.

#### **West Virginia American Water**

Mott MacDonald was responsible for locating 186,000+ meters state-wide to subfoot accuracy and tagging those meters with the current premise numbers. Map books and spreadsheets were generated for each route when the meters were collected. Those deliverables were provided to the changeout contractors to locate each meter and record final readings and replacement meter numbers to be returned to the client for updating their SAP system."

#### **Thames Water**

Mott MacDonald acted as contract delivery manager of the new Smart Metering Fixed Network telecommunications system. The \$120M Fixed Network is a complex program involving state of the art communications infrastructure, implementation of a brand new IT system and installation of telecommunications masts across London.

#### **Anglian Water**

Mott MacDonald managed the UK's first large proactive water meter exchange program for replacing 240,000 meters over 4 years, including a 6-month pilot project during which some 28,000 meter exchanges were completed.



## **6. Size of firm**

Working with us you get the advantages of size and stability that come from a \$2 billion international engineering consultant. We have 14,000 staff worldwide, with 2,300 staff located in 62 offices across North America. Our three offices in Louisiana include over 120 employees. This broad base of talent offers you the convenience of a readily available and technically local team who is ready to deliver your project with technical excellence and local efficiency.

## **7.**

### **Past performance on Parish contracts**

Mott MacDonald has been successfully working with Jefferson Parish since 2000 and is very familiar with Jefferson Parish's personnel, standards, and workflow requirements. Our team has spent considerable energy and effort in assisting various Parish departments to implement important projects and in building long-term relationships with staff across all levels.

From our experiences on our Jefferson Parish water infrastructure projects, we have learned your preferences as well as what is important to your stakeholders, constituents, and community members. We will use that knowledge to quickly and efficiently provide engineering solutions and recommendations for this project. This experience with design of other water infrastructure includes over 50 projects. What is common to all of these projects is our staff, which have been with us since the inception of Mott MacDonald's New Orleans office and prior.

Some of our past projects with Jefferson Parish include:

- Pavement Management System
- Iris Avenue Waterline Replacement (River Road to Jefferson Highway)
- Trudeau Drive Drainage Improvements
- Barataria Waterline Extension (McMurtry St. to Trahan St. Crown Point)
- Harvey Boulevard Extension (Wall Blvd to Peters Rd)
- Design and Construction of Drainage Improvements to the Bonabel Canal
- Little Farms Avenue Rehabilitation



### **In conclusion**

Mott MacDonald understands that it is essential for the success of this project that Jefferson Parish staff select a team with a complete understanding of the project needs, standards, and preferences as well as recent and relevant project expertise.

As shown throughout this submittal, we offer the Parish a team that meets all of these requirements.

Mott MacDonald is excited and appreciates the opportunity to continue to work in partnership with the Parish and ask that you select the Mott MacDonald team to deliver this most important project.

**O. To the best of my knowledge, the foregoing is an accurate statement of facts.**

**Signature:** Many Heymann **Print Name:** Many Heymann, PE

**Title:** Principal-in-Charge **Date:** March 16, 2021



**N-Y Associates**

# TEC PROFESSIONAL SERVICES QUESTIONNAIRE



<b>A.</b>	<b>Project Name and Advertisement Resolution Number:</b>																																																																						
	Professional Engineering and Supplemental Services for the Procurement Document Development and Comprehensive Management related to the Implementation of Advanced Metering Infrastructure (AMI) for Water Service in Jefferson Parish Resolution No. 137055																																																																						
<b>B.</b>	<b>Firm Name &amp; Address where Project work will be performed:</b>																																																																						
	N-Y Associates, Inc. 2750 Lake Villa Drive Metairie, LA 70002																																																																						
<b>C.</b>	<b>Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana</b>																																																																						
	Frank Nicoladis, PE, President TEL No.: (504) 885-0500 FAX No.: (504) 885-0595 <a href="mailto:fnicoladis@n-yassociates.com">fnicoladis@n-yassociates.com</a>																																																																						
<b>D.</b>	<b>Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.</b>																																																																						
	Constantine F. Nicoladis, PE, Vice President TEL No.: (504) 885-0500 FAX No.: (504) 885-0595 <a href="mailto:cnicoladis@n-yassociates.com">cnicoladis@n-yassociates.com</a>																																																																						
<b>E.</b>	<b>Please provide the number of employees whose primary function corresponds with each category:</b>																																																																						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;"><b>4</b></td> <td style="width: 30%;">Administrative</td> <td style="width: 5%; text-align: center;"><b>*</b></td> <td style="width: 30%;">Estimators</td> <td style="width: 5%; text-align: center;"><b>**</b></td> <td style="width: 20%;">Specification Writers</td> </tr> <tr> <td style="text-align: center;"><b>3</b></td> <td>Architects (Licensed)</td> <td style="text-align: center;"><b>--</b></td> <td>Geologists</td> <td style="text-align: center;"><b>4</b></td> <td>Structural Engineers</td> </tr> <tr> <td style="text-align: center;"><b>--</b></td> <td>Chemical Engineers</td> <td style="text-align: center;"><b>--</b></td> <td>Geotechnical Engineers</td> <td></td> <td>Graduate Engineers</td> </tr> <tr> <td style="text-align: center;"><b>5</b></td> <td>Civil Engineers</td> <td style="text-align: center;"><b>--</b></td> <td>Interior Designers</td> <td></td> <td>Project Managers</td> </tr> <tr> <td style="text-align: center;"><b>3</b></td> <td>Construction Inspectors</td> <td style="text-align: center;"><b>--</b></td> <td>Landscape Architects</td> <td></td> <td>Clerical</td> </tr> <tr> <td style="text-align: center;"><b>--</b></td> <td>Ecologists</td> <td style="text-align: center;"><b>--</b></td> <td>Land Surveyor</td> <td></td> <td>Grant/Funding Specialist</td> </tr> <tr> <td style="text-align: center;"><b>--</b></td> <td>Electrical Engineers</td> <td style="text-align: center;"><b>--</b></td> <td>Mechanical Engineers</td> <td style="text-align: center;"><b>***</b></td> <td>Sanitary Engineers</td> </tr> <tr> <td style="text-align: center;"><b>1</b></td> <td>Engineer Intern (Civil)</td> <td style="text-align: center;"><b>--</b></td> <td>Environmental Engineers</td> <td style="text-align: center;"><b>****</b></td> <td>Transportation Engineers</td> </tr> <tr> <td></td> <td>Professional Land Surveyors</td> <td style="text-align: center;"><b>1</b></td> <td>Planners Urban/Regional</td> <td style="text-align: center;"><b>3</b></td> <td>CAD Operators</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;"><b>1</b></td> <td>Eng. Technicians (Civil)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;"><b>25</b></td> <td><b>TOTAL</b></td> </tr> </table>					<b>4</b>	Administrative	<b>*</b>	Estimators	<b>**</b>	Specification Writers	<b>3</b>	Architects (Licensed)	<b>--</b>	Geologists	<b>4</b>	Structural Engineers	<b>--</b>	Chemical Engineers	<b>--</b>	Geotechnical Engineers		Graduate Engineers	<b>5</b>	Civil Engineers	<b>--</b>	Interior Designers		Project Managers	<b>3</b>	Construction Inspectors	<b>--</b>	Landscape Architects		Clerical	<b>--</b>	Ecologists	<b>--</b>	Land Surveyor		Grant/Funding Specialist	<b>--</b>	Electrical Engineers	<b>--</b>	Mechanical Engineers	<b>***</b>	Sanitary Engineers	<b>1</b>	Engineer Intern (Civil)	<b>--</b>	Environmental Engineers	<b>****</b>	Transportation Engineers		Professional Land Surveyors	<b>1</b>	Planners Urban/Regional	<b>3</b>	CAD Operators					<b>1</b>	Eng. Technicians (Civil)					<b>25</b>	<b>TOTAL</b>
<b>4</b>	Administrative	<b>*</b>	Estimators	<b>**</b>	Specification Writers																																																																		
<b>3</b>	Architects (Licensed)	<b>--</b>	Geologists	<b>4</b>	Structural Engineers																																																																		
<b>--</b>	Chemical Engineers	<b>--</b>	Geotechnical Engineers		Graduate Engineers																																																																		
<b>5</b>	Civil Engineers	<b>--</b>	Interior Designers		Project Managers																																																																		
<b>3</b>	Construction Inspectors	<b>--</b>	Landscape Architects		Clerical																																																																		
<b>--</b>	Ecologists	<b>--</b>	Land Surveyor		Grant/Funding Specialist																																																																		
<b>--</b>	Electrical Engineers	<b>--</b>	Mechanical Engineers	<b>***</b>	Sanitary Engineers																																																																		
<b>1</b>	Engineer Intern (Civil)	<b>--</b>	Environmental Engineers	<b>****</b>	Transportation Engineers																																																																		
	Professional Land Surveyors	<b>1</b>	Planners Urban/Regional	<b>3</b>	CAD Operators																																																																		
				<b>1</b>	Eng. Technicians (Civil)																																																																		
				<b>25</b>	<b>TOTAL</b>																																																																		
	<p><b>*        N-Y senior technical personnel prepare cost estimates.</b></p> <p><b>**       N-Y senior technical personnel write specifications.</b></p> <p><b>***     N-Y Sanitary Engineers are included in Civil Engineers.</b></p> <p><b>****    N-Y Transportation Engineers are included in Civil and Structural Engineers</b></p>																																																																						
<b>F.</b>	<b>Is this submittal by a JOINT-VENTURE?</b>																																																																						
	Please check: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>																																																																						
	If marked "No" skip to Section I. If marked "yes" complete Sections G-H.																																																																						



G.	If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.		
	N/A		
H.	Has this JOINT-VENTURE previously worked together? Please check:		
	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
I.	List all subcontractors anticipated for this Project. Please note that <u>all subcontractors must submit a fully completed copy of this questionnaire</u> , applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.		
	Name and Address:	Specialty:	Worked with Firm Before (Yes or No):
1.	N/A		
2.			
3.			
J.	Please specify the total number of support personnel that may assist in the completion of this Project:		
	<u>10</u>		

<b>K. List the professional in charge, key persons, specialists, &amp; individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.</b>		
<b>PROFESSIONAL IN CHARGE OF PROJECT:</b>		
Name & Title:		
Constantine F. Nicoladis, PE - Vice President		
Project Assignment:		
N-Y Project Manager / Senior Civil and Hydraulic Engineer		
Name of Firm with which associated:		
N-Y Associates, Inc.		
Years' experience with this Firm:		
34 Years		
Education: Degree(s)/Year/Specialization:		
Bachelor of Science/1985/Vanderbilt University/Civil and Environmental Engineering		
Master of Business Administration/1987/Loyola University		
Active registration: Year first registered/discipline:		
LA (27095)/1997/Civil	MS (13351)/1997/Civil	FL (052242)/1997/Civil
AL (22315)/1998/Civil	TX (92359)/2003/Civil	NY (094123)/2014/Civil
Other experience and qualifications relevant to the proposed Project:		
<p>Mr. Nicoladis has 34 years of civil and hydraulic experience with N-Y. He has extensive experience in various types of civil engineering projects including water, wastewater, storm drainage, flood control and street projects. His work includes the planning, design and construction of drainage and wastewater pump stations, force mains, and gravity lines along with water supply &amp; treatment facilities and wastewater collection &amp; treatment facilities.</p>		
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Water Supply, Treatment and Distribution Experience</b> </div> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Jefferson Parish Waterline Relocation at West Esplanade Avenue and Duncan Canal; Kenner, LA:</b> The replacement and relocation of existing Jefferson Parish waterlines from in the Duncan Canal (pile supported) to resting on top of the new double barrel, reinforced concrete box culvert.</p> <p><b>East Bank Water Treatment Plant, P2 Plant Chlorination System Evaluation; Jefferson Parish, LA:</b> Evaluation of the Chlorination System at the P2 Plant of the 52 MGD Eastbank Water Treatment Plant, to determine the best solution to eliminate safety concerns due to insufficient space within the chlorine cylinder room.</p>		
<p><b>East Bank Water Treatment Plant, New P2 Plant Chlorination Building; Jefferson Parish, LA:</b> A new 61' x 21' chlorination building housing six (6) on-line chlorinators (2 relocated and 4 new) and a storage area to house ten (10) additional chlorine cylinders, and an overhead crane.</p> <p><b>East Bank Water System, Bridge Repairs &amp; Raw Water Intake Protection at East Bank Intake; Jefferson Parish, LA:</b> Inspection of the East Bank Intake Bridge and design of associated repairs; Installation of lighted buoys, concrete sinkers &amp; warning signs for river traffic.</p> <p><b>P1 Plant Hydraulic Analysis; Jefferson Parish, LA:</b> A hydraulic analysis which determined the feasibility of raising the filter backwash troughs for the P1 Plant and to determine the head loss from the precipitators to the filter effluent clearwell. The capacity of the filter backwash pump was also analyzed in an effort to increase the plant capacity.</p> <p><b>West Bank Water Treatment Plant Intake Building; Jefferson Parish, LA:</b> Enlarging the existing concrete platform and adding a new corrugated metal building to house the existing water intake structure; Enclosing the raw water pumps, adding two new spray water pumps to the 4 existing pumps, and a new baffle/weir system to keep debris from entering the water intake.</p> <p><b>Shell Potable Water Line; St. John the Baptist Parish, LA:</b> Extension of the dead end 12" water line on Airline Highway (US 61) west of Terre Haute Road 3430 LF to the Shell facility for emergency purposes (Concha Lane).</p>		

**Waterline Replacement Program for portions of the CBD, French Quarter and Iberville Neighborhoods; New Orleans, LA:** *i.* Utility replacement and roadway reconstruction for 3 blocks of Decatur Street and 1 block of St. Peter Street including: replacement of 1471 LF of existing 24" waterline; replacement of 2919 LF of 18" drain line; CIPP Lining of 1433 LF of sewer line and 1719 LF of house connections; and removal and reconstruction of the existing roadway. *ii.* Waterline replacement and roadway reconstruction for portions of 28 different streets. The work included: 2500 LF of 8" waterline; 5000 LF of 12" waterline; 480 LF of 20" waterline; 1450 LF of 24" waterline; 1450 LF of 30" waterline.

**Waterline Replacement Project 2.4; St. Bernard Parish, LA:** Replacement of existing water lines with 9,950 LF of new 8" water lines along portions of Esteban Street, Mehle Avenue, Aycock Street and Center Street in Arabi, LA. This project is funded by the Department of Health Drinking Water Revolving Loan Fund (DWRLF).

**Installation of a New 24" Waterline along East Judge Perez Drive (Torres Drive to Bayou Road; St. Bernard Parish, LA:** Installation of 5,000 LF of new 24" PVC waterline and tying a new waterline to existing lines at Torres Drive and Bayou Road, along with several off-sets to avoid conflict with existing utilities and drainage channels.

**Water Supply and Distribution System for the New Carville Job Corps Center; Iberville Parish, LA:** Design of the water distribution system for the entire 26.5 acre Job Corps Center campus including a water booster pump station, capable of pumping a maximum of 1,140 GPM from the existing ground storage tank at the adjacent National Guard site, to supply water to the Job Corps Center campus. The 6 building campus is served by a 6" diameter waterline loop to provide water for domestic purposes, the sprinklers in the dormitory and the outdoor fire hydrants. The distribution system is fed by a 12" water transmission line from the National Guard site.

**Water System Master Plan; St. Bernard Parish, LA:** N-Y determined the population and boundaries for service areas, peaking factor, unaccounted for water and maximum day demand for the Parishwide Water Master Plan. With the assistance of the Parish, N-Y completed C-factor tests on larger waterlines. (subconsultant)

**Water System Modeling; St. Bernard Parish, LA:** N-Y created the base map showing all waterlines 6" and larger for the Parishwide Water System Hydraulic Model. N-Y also completed the construction cost estimate for recommended improvements. (subconsultant)

**Elevated Water Tank; Reggio, LA:** A 500,000 gallon elevated hydropillar water tank with fluted steel columns.

**Elevated Water Tank for the Percy Griffin Community Center, Fire Water Supply; Plaquemines Parish, LA:** A FEMA funded 50,000 gallon elevated water tank.

**Elevated Water Storage Tanks; Biloxi, MS:** Four, one million gallon elevated water storage tanks in the Biloxi, MS area.

**Spartan Drive Waterline Extension; Slidell, LA:** Extension of the dead end 8" waterline on Spartan Drive east of Annette Drive approx. 3550 LF down Spartan Drive and then along Howze Beach Road to tie into an existing waterline.

**Parishwide Water System Improvements, Phases I and II; St. John the Baptist Parish, LA:** Comprehensive engineering and feasibility reports, as well as a hydraulics model of the Parish's water distribution system to identify and evaluate required improvements. The project included over 60 miles of water line; Two 2.5 MGD water wells; 500,000 gallon elevated water storage tank; Four ground storage facilities; and 4 booster pumping stations.

#### **Memberships & Associations:**

- The American Society of Civil Engineers
- The Society of American Military Engineers
- American Council of Engineering Companies
- Water Environment Federation
- American Concrete Institute

**LICENSURE/CERTIFICATIONS: CONSTANTINE NICOLADIS, PE**

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b> 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>
<b>Mr. Constantine Frank Nicoladis</b>	
License/Certificate Type - Number	Expiration Date
<b>PE.0027095</b>	<b>09/30/2021</b>
Status:	<b>Active</b>





KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:		
Name & Title:		
<b>Frank Nicoladis, PE - President</b>		
Project Assignment:		
<b>Principal and Project Oversight / Civil and Hydraulic Engineer</b>		
Name of Firm with which associated:		
<b>N-Y Associates, Inc.</b>		
Years' experience with this Firm:		
<b>52 Years</b>		
Education: Degree(s)/Year/Specialization:		
<b>Bachelor of Science/1957/Mississippi State University/Civil Engineering</b>		
Active registration: Year first registered/discipline:		
<b>LA (5924)/1957/Civil Engineering</b>	<b>TX (32329)/1971/Civil Engineering</b>	<b>FL (36371)/1985/Civil Engineering</b>
<b>MS (2468)/1961/Civil Engineering</b>	<b>AR (3373)/1972/Civil Engineering</b>	<b>LA (2862)/1957/Surveying (retired)</b>
Other experience and qualifications relevant to the proposed Project:		
<p>Mr. Nicoladis has 64 years of experience as a consulting engineer, with 52 years as President of N-Y. Mr. Nicoladis serves as a Principal for the firm's wastewater projects; ensuring that N-Y's projects are properly staffed, that N-Y's quality control systems are implemented, that the client's budget and schedule are met and that all of the firm's resources are efficiently utilized to provide the client with a level of services that exceeds their expectations.</p>		
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Water Supply, Treatment and Distribution Experience</b> </div> <div style="display: flex;"> <div style="flex: 1; padding-right: 10px;"> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Jefferson Parish Waterline Relocation at West Esplanade Avenue and Duncan Canal; Kenner, LA:</b> The replacement and relocation of existing Jefferson Parish waterlines from in the Duncan Canal (pile supported) to resting on top of the new double barrel, reinforced concrete box culvert.</p> <p><b>East Bank Water Treatment Plant, P2 Plant Chlorination System Evaluation; Jefferson Parish, LA:</b> Evaluation of the Chlorination System at the P2 Plant of the 52 MGD Eastbank Water Treatment Plant, to determine the best solution to eliminate safety concerns due to insufficient space within the chlorine cylinder room.</p> <p><b>East Bank Water Treatment Plant, P2 Plant Chlorination Building; Jefferson Parish, LA:</b> A new 61' x 21' chlorination building housing 6 on-line chlorinators (2 relocated and 4 new) and a storage area to house 10 additional chlorine cylinders, and an overhead crane.</p> </div> <div style="flex: 1;"> <p><b>East Bank Water System, Bridge Repairs &amp; Raw Water Intake Protection at East Bank Intake; Jefferson Parish, LA:</b> Inspection of the East Bank Intake Bridge and design of associated repairs; Installation of lighted buoys, concrete sinkers and warning signs for river traffic.</p> <p><b>P1 Plant Hydraulic Analysis; Jefferson Parish, LA:</b> A hydraulic analysis to determine the feasibility of raising the filter backwash troughs for the P1 Plant and to determine the head loss from the precipitators to the filter effluent clearwell. The capacity of the filter backwash pump was also analyzed in an effort to increase the plant capacity.</p> <p><b>West Bank Water Treatment Plant Intake Building; Jefferson Parish, LA:</b> Enlarging the existing concrete platform and adding a new corrugated metal building to house the existing water intake structure; Enclosing the raw water pumps, adding two new spray water pumps to the 4 existing pumps, and a new baffle/weir system to keep debris from entering the water intake.</p> <p><b>Waterline Replacement Program for portions of the CBD, French Quarter and Iberville Neighborhoods; New Orleans, LA:</b> <i>i.</i> Utility replacement and roadway reconstruction for 3 blocks of Decatur Street and 1 block of St. Peter Street including: replacement of 1471 LF of existing 24" waterline; replacement of 2919 LF of 18" drain line; CIPP Lining of 1433 LF of sewer line and 1719 LF of house connections; and removal and reconstruction of the existing roadway. <i>ii.</i> Waterline replacement and roadway reconstruction for portions of 28 different streets. The work included: 2500 LF of 8" waterline; 5000 LF of 12" waterline; 480 LF of 20" waterline; 1450 LF of 24" waterline; 1450 LF of 30" waterline.</p> </div> </div>		

Other experience and qualifications relevant to the proposed Project:	FRANK NICOLADIS, PE - PAGE
<p><b>Shell Potable Water Line; St. John the Baptist Parish, LA:</b> Extension of the dead end 12" water line on Airline Highway (US 61) west of Terre Haute Road 3430 LF to the Shell facility for emergency purposes (Concha Lane).</p> <p><b>Waterline Replacement Project 2.4; St. Bernard Parish, LA:</b> Replacement of existing water lines with 9,950 LF of new 8" water lines along portions of Esteban Street, Mehle Avenue, Aycock Street and Center Street in Arabi, LA. This project is funded by the Department of Health Drinking Water Revolving Loan Fund (DWRLF).</p> <p><b>Installation of a New 24" Waterline along East Judge Perez Drive (Torres Drive to Bayou Road; St. Bernard Parish, LA:</b> Installation of 5,000 LF of new 24" PVC waterline and tying a new waterline to existing lines at Torres Drive and Bayou Road, along with several off-sets to avoid conflict with existing utilities and drainage channels.</p> <p><b>Installation of a New 24" Waterline; Violet, LA:</b> A new 24" waterline extending approx. 3 miles to increase water pressure and provide fire protection. A hydraulic analysis was conducted in order to determine the size and residual water pressures in the line.</p> <p><b>Water System Master Plan; St. Bernard Parish, LA:</b> N-Y determined the population and boundaries for service areas, peaking factor, unaccounted for water and maximum day demand for the Parishwide Water Master Plan. With the assistance of the Parish, N-Y completed C-factor tests on larger waterlines. (subconsultant)</p> <p><b>Water System Modeling; St. Bernard Parish, LA:</b> N-Y created the base map showing all waterlines 6" and larger for the Parishwide Water System Hydraulic Model. N-Y also completed the construction cost estimate for recommended improvements. (subconsultant)</p> <p><b>Elevated Water Tank; Reggio, LA:</b> A 500,000 gallon elevated hydropillar water tank with fluted steel columns.</p> <p><b>Elevated Water Tank for the Percy Griffin Community Center, Fire Water Supply; Plaquemines Parish, LA:</b> A FEMA funded 50,000 gallon elevated water tank.</p> <p><b>Parishwide Water System Improvements, Phases I and II; St. John the Baptist Parish, LA:</b> Comprehensive engineering and feasibility reports, as well as a hydraulics model of the Parish's water distribution system to identify and evaluate required improvements. The project included over 60 miles of water line; Two 2.5 MGD water wells; 500,000 gallon elevated water storage tank; Four ground storage facilities; and 4 booster pumping stations.</p>	<p><b>Lions Water Treatment Plant in Reserve; St. John the Baptist Parish, LA:</b> This project increased the capacity of the existing water treatment plant from 1.25 to 2.5 MGD. A hydraulic analysis was also conducted in order to determine the capacity and head requirements of the high service pumps.</p> <p><b>Edgard Water Treatment Plant; St. John the Baptist Parish, LA:</b> Upgrade of the existing 0.45 MGD plant to 1 MGD. A hydraulic analysis was performed to determine the capacity and head requirements of the high service pumps.</p> <p><b>Parishwide Water System Improvements, Phases I and II; St. James Parish, LA:</b> A hydraulic analysis of the Parish's water distribution system to identify and evaluate required improvements. Design and construction administration for the installation of new water distribution lines.</p> <p><b>Vacherie Water Treatment Plant; St. James Parish, LA:</b> Upgrade of the existing 1 MGD water treatment plant to 3 MGD, including new water intake structures. A hydraulic analysis was performed to determine the capacity and head requirements of the high service pumps.</p> <p><b>Convent Water Treatment Plant; Convent, LA:</b> Upgrade of the existing 1 MGD plant to 1.7 MGD, and repairs to water intake pipe.</p>
<div>Other Experience in Jefferson Parish</div> <p><b>Program Management of the Eastbank FEMA Submerged Roads Program; Jefferson Parish, LA:</b> Design Management and Construction Management of \$83 million of FEMA funded concrete and asphalt street improvements, due to damage sustained during Hurricane Katrina. N-Y was responsible for overall program implementation including the oversight of five (5) design engineers and approximately twenty (20) construction contractors.</p>	
<div>Memberships &amp; Associations:</div> <ul style="list-style-type: none"><li>▪ Fellow, Society of American Military Engineers</li><li>▪ Fellow/Life Member, American Society of Civil Engineers</li><li>▪ Fellow, American Council of Engineering Companies</li><li>▪ Life Member, American Waterworks Association</li><li>▪ Life Member, American Public Works Association</li><li>▪ Water Environment Federation</li><li>▪ National Society of Professional Engineers</li><li>▪ American Planning Association</li><li>▪ Who's Who in Engineering (AAES)</li><li>▪ Who's Who in the South and Southwest (Marquis)</li></ul>	

**LICENSURE: FRANK NICOLADIS, PE**



**LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)**

**9643 Brookline Avenue, Suite 121**

**Baton Rouge, LA 70809**

**Phone (225) 925-6291**

**[www.lapels.com](http://www.lapels.com)**

**Mr. Frank Nicoladis**

License/Certificate Type - Number

**PE.0005924**

Expiration Date

**03/31/2021**

**Status: Active**



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<b>Michael F. Nicoladis, EI, MBA - Senior Vice President</b>	
Project Assignment:	
<b>Principal / Project and Program Management</b>	
Name of Firm with which associated:	
<b>N-Y Associates, Inc.</b>	
Years' experience with this Firm:	
<b>37 Years</b>	
Education: Degree(s)/Year/Specialization:	
<b>Bachelor of Science/1982/Vanderbilt University/Civil Engineering (Magna Cum Laude)</b>	
<b>Master of Business Administration/1984/Duke University (Fuqua Scholar)</b>	
Active registration: Year first registered/discipline:	
<b>LA (8705)/1982/Engineering Intern</b>	
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Nicoladis has had a variety of design, construction administration and project management experience since joining the firm in 1984. As Senior Vice President, he is responsible for overseeing the daily operations and administration of N-Y. He is instrumental in new business development, contract negotiations, and scheduling of work. Mr. Nicoladis also serves as a Principal on many projects and plays a major role in overseeing the firm's client management program.</p>	<p><b>Site and Utility Improvements for St. Bernard Public Housing Development; New Orleans, LA:</b> Replacement of 14,600 LF of 1" to 12" water line, 13,400 LF of 60 year-old 4" to 7" sewer line, and 7,850 LF of 4" to 18" drainage line, as well as appurtenances throughout the sixteen square block site. Work also included plumbing underneath the 130 residential buildings and other sitework.</p> <p><b>Site and Utility Improvements for Lafitte Public Housing Development; New Orleans, LA:</b> Replacement of 6,500 LF of 1" to 12" water line, 20,500 LF of 60 year-old 4" to 8" sewer line, and 4,250 LF of 6" to 10" drainage line, as well as all appurtenances.</p>
<p><b>Water Supply, Treatment and Distribution Experience</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Shell Potable Water Line; St. John the Baptist Parish, LA:</b> Extension of the dead end 12" water line on Airline Highway (US 61) west of Terre Haute Road 3430 LF to the Shell facility for emergency purposes (Concha Lane).</p> <p><b>Water Supply and Distribution System for the New Carville Job Corps Center; Iberville Parish, LA:</b> Design of the water distribution system for the entire 26.5 acre Job Corps Center campus including a water booster pump station, capable of pumping a maximum of 1,140 GPM from the existing ground storage tank at the adjacent National Guard site, to supply water to the Job Corps Center campus. The 6 building campus is served by a 6" diameter waterline loop to provide water for domestic purposes, the sprinklers in the dormitory and the outdoor fire hydrants. The distribution system is fed by a 12" water transmission line from the National Guard site.</p>	<p><b>Other Experience in Jefferson Parish</b></p> <p><b>Program Management of the Eastbank FEMA Submerged Roads Program; Jefferson Parish, LA:</b> Design Management and Construction Management of \$83 million of FEMA funded concrete and asphalt street improvements, due to damage sustained during Hurricane Katrina. N-Y was responsible for overall program implementation including the oversight of five (5) design engineers and approximately twenty (20) construction contractors.</p>
<p><b>Memberships &amp; Associations:</b></p> <ul style="list-style-type: none"> <li>American Society of Civil Engineers</li> <li>Society of American Military Engineers</li> <li>American Council of Engineering Companies</li> <li>American Public Works Association</li> <li>American Association of Airport Executives</li> <li>Tau Beta Pi</li> <li>Chi Epsilon</li> <li>Who's Who in America (Marquis)</li> <li>Who's Who in Science and Engineering (Marquis)</li> <li>Who's Who in Finance and Industry (Marquis)</li> </ul>	



**LICENSURE: MICHAEL NICOLADIS, EI, MBA**



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
[www.lapels.com](http://www.lapels.com)

**Mr. Michael F. Nicoladis**

License/Certificate Type - Number

**EI.0008705**

Expiration Date

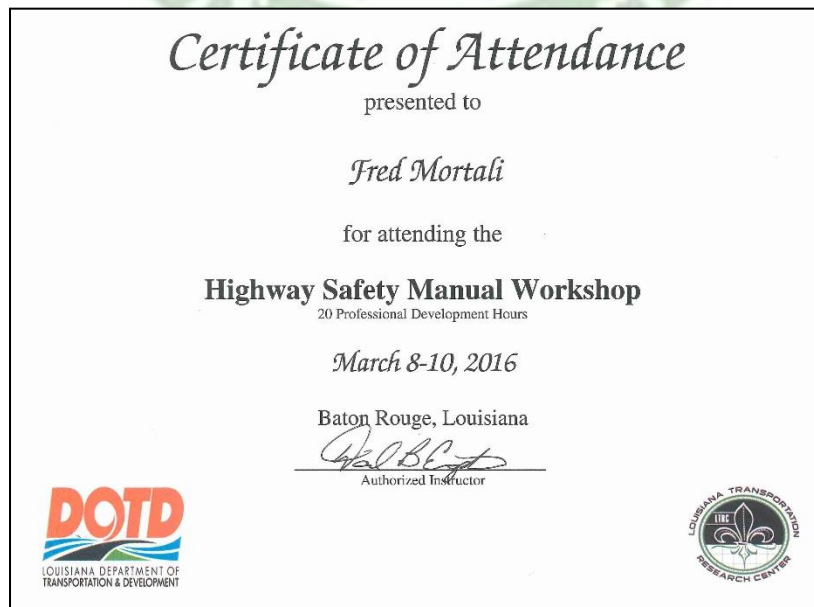
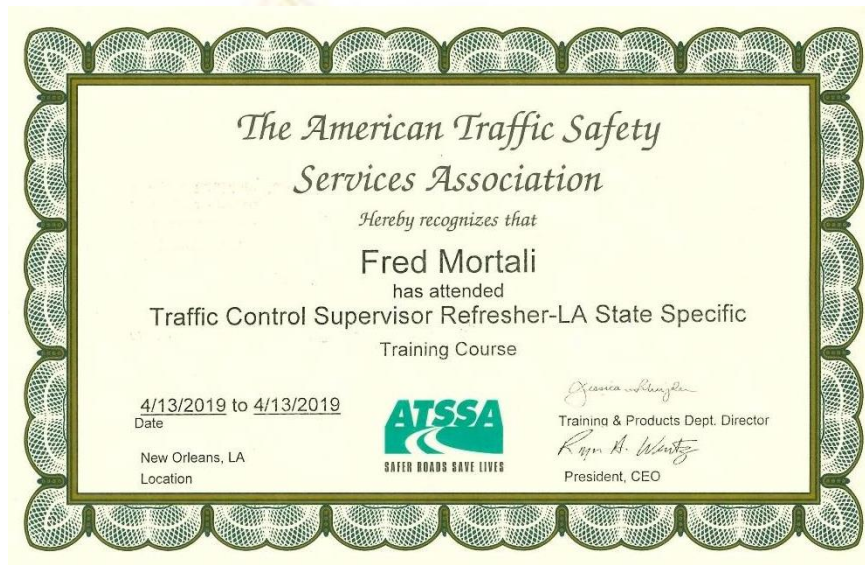
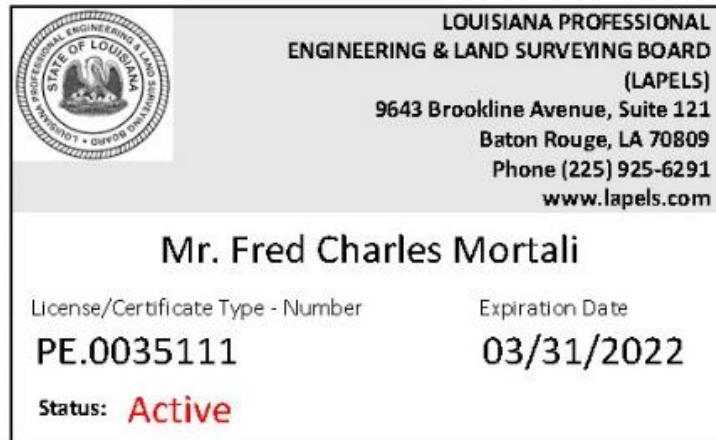
**09/30/2021**

Status: **Active**



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<b>Fred C. Mortali, PE – Civil Engineer</b>	
Project Assignment:	
<b>Civil and Hydraulic Engineer</b>	
Name of Firm with which associated:	
<b>N-Y Associates, Inc.</b>	
Years' experience with this Firm:	
<b>12 Years</b>	
Education: Degree(s)/Year/Specialization:	
<b>Bachelor of Civil Engineering/1989/University of Toledo/Civil Engineering</b>	
Active registration: Year first registered/discipline:	
<b>LA (35111)/2010/Civil Engineering      MS (20103)/2011/Civil Engineering</b>	
Other experience and qualifications relevant to the proposed Project:	
<div><b>Water Supply, Treatment and Distribution Experience</b></div> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Jefferson Parish Waterline Relocation at West Esplanade Avenue and Duncan Canal; Kenner, LA:</b> The replacement and relocation of existing Jefferson Parish waterlines from in the Duncan Canal (pile supported) to resting on top of the new double barrel, reinforced concrete box culvert.</p> <p><b>Waterline Replacement Program for portions of the CBD, French Quarter and Iberville Neighborhoods; New Orleans, LA:</b> <i>i.</i> Utility replacement and roadway reconstruction for 3 blocks of Decatur Street and 1 block of St. Peter Street including: replacement of 1471 LF of existing 24" waterline; replacement of 2919 LF of 18" drain line; CIPP Lining of 1433 LF of sewer line and 1719 LF of house connections; and removal and reconstruction of the existing roadway. <i>ii.</i> Waterline replacement and roadway reconstruction for portions of 28 different streets. The work included: 2500 LF of 8" waterline; 5000 LF of 12" waterline; 480 LF of 20" waterline; 1450 LF of 24" waterline; 1450 LF of 30" waterline.</p> <p><b>Waterline Replacement Project 2.4; St. Bernard Parish, LA:</b> Replacement of existing water lines with 9,950 LF of new 8" water lines along portions of Esteban Street, Mehle Avenue, Aycock Street and Center Street in Arabi, LA. This project is funded by the Department of Health Drinking Water Revolving Loan Fund (DWRLF).</p>	<p><b>Shell Potable Water Line; St. John the Baptist Parish, LA:</b> Extension of the dead end 12" water line on Airline Highway (US 61) west of Terre Haute Road 3430 LF to the Shell facility for emergency purposes (Concha Lane).</p> <p><b>Spartan Drive Waterline Extension; Slidell, LA:</b> Extension of the dead end 8" waterline on Spartan Drive east of Annette Drive approx. 3550 LF down Spartan Drive and then along Howze Beach Road to tie into an existing waterline.</p> <div><b>Other Experience in Jefferson Parish</b></div> <p><b>Program Management of the Eastbank FEMA Submerged Roads Program; Jefferson Parish, LA:</b> Design Management and Construction Management of \$83 million of FEMA funded concrete and asphalt street improvements, due to damage sustained during Hurricane Katrina. N-Y was responsible for overall program implementation including the oversight of five (5) design engineers and approximately twenty (20) construction contractors.</p> <p><b>New Sewage Pump Station &amp; Rerouting of Force Mains at Transcontinental &amp; Vineland Streets; Metairie, LA:</b> A new 23,000 GPM wastewater pumping station, which included tapping two existing 24" diameter force mains and installing pipeline to the splitter box of the new pump station. Also included is an overflow bypass system designed to bypass the pumps and prevent overflow of the pump station wet well in the case of a power failure.</p> <div><b>Memberships &amp; Associations:</b></div> <ul style="list-style-type: none"> <li>American Society of Civil Engineers</li> <li>Society of American Military Engineers</li> </ul>

**LICENSURE/CERTIFICATIONS: FRED MORTALI, PE**



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:				
Name & Title:				
James E. Simmons, PE - Vice President				
Project Assignment:				
Senior Civil and Structural Engineer				
Name of Firm with which associated:				
N-Y Associates, Inc.				
Years' experience with this Firm:				
27 Years				
Education: Degree(s)/Year/Specialization:				
Bachelor of Science/1977/Louisiana State University/Civil Engineering				
Active registration: Year first registered/discipline:				
LA (19891)/1981/Civil Engineering	MS (10842)/1990/Civil Engineering			
FL (39890)/1988/Civil Engineering	NY (094047)/2014/Civil Engineering	TX (92359)/2003/Civil		
Other experience and qualifications relevant to the proposed Project:				
<p>Mr. Simmons has over 40 years of progressively responsible civil engineering experience. His extensive experience includes drainage systems such as canals and pumping stations, and flood and surge control projects. He is responsible for managing these types of projects for the firm and is also responsible for the firm's transportation and structural engineering practice. Mr. Simmons experience includes:</p>				
<table border="1"> <thead> <tr> <th>Other Experience in Jefferson Parish</th> </tr> </thead> <tbody> <tr> <td> <p>➤ <b>Roadways and Drainage</b></p> <p><b>Metairie Road Smart Growth; Jefferson Parish, LA:</b> Smart Growth items of work including lane reduction to permit more room for pedestrians and vehicle parking, wider sidewalks, demarcation of sidewalk with colored pavers, adding high-visibility crosswalks, new ADA compliant curb ramps, and the use of pervious concrete for non-travel lanes to reduce stormwater runoff.</p> <p><b>New On and Off Ramps at Lead Street to the Earhart Expressway (LA 3139) with Bridge Replacement; Jefferson Parish, LA:</b> A new at grade eastbound on-ramp from Lead Street to LA 3139; a new at grade westbound off-ramp from LA 3139 to Lead Street; and a new 100 LF reinforced concrete box culvert replacement for the existing Lead Street bridge over the Cross Canal, consisting of 2, 12'x14' barrels.</p> <p><b>Improvement to Veterans Memorial Boulevard from David Drive to Roosevelt Blvd.; Jefferson Parish, LA:</b> Widening 4,000 LF of urban roadway from four to six lanes, including traffic signalization, topographic survey, asphaltic concrete, curb &amp; gutter, and subsurface drainage, along with adjacent concrete sidewalks.</p> <p><b>Improvements to West Napoleon Avenue from Cleary Avenue to Houma Blvd.; Jefferson Parish, LA:</b> A new 2250 LF 4-lane, urban roadway; which included a 13.5'h x 40'w, double barrel, 195' long box culvert at the Suburban Drainage Canal, tie-ins to existing streets, curb &amp; gutter and subsurface drainage. A 2200 LF concrete flume canal section with a bottom width of 30' and a capacity of 3,000 CFS was also constructed in Canal No. 4.</p> </td> </tr> </tbody> </table>			Other Experience in Jefferson Parish	<p>➤ <b>Roadways and Drainage</b></p> <p><b>Metairie Road Smart Growth; Jefferson Parish, LA:</b> Smart Growth items of work including lane reduction to permit more room for pedestrians and vehicle parking, wider sidewalks, demarcation of sidewalk with colored pavers, adding high-visibility crosswalks, new ADA compliant curb ramps, and the use of pervious concrete for non-travel lanes to reduce stormwater runoff.</p> <p><b>New On and Off Ramps at Lead Street to the Earhart Expressway (LA 3139) with Bridge Replacement; Jefferson Parish, LA:</b> A new at grade eastbound on-ramp from Lead Street to LA 3139; a new at grade westbound off-ramp from LA 3139 to Lead Street; and a new 100 LF reinforced concrete box culvert replacement for the existing Lead Street bridge over the Cross Canal, consisting of 2, 12'x14' barrels.</p> <p><b>Improvement to Veterans Memorial Boulevard from David Drive to Roosevelt Blvd.; Jefferson Parish, LA:</b> Widening 4,000 LF of urban roadway from four to six lanes, including traffic signalization, topographic survey, asphaltic concrete, curb &amp; gutter, and subsurface drainage, along with adjacent concrete sidewalks.</p> <p><b>Improvements to West Napoleon Avenue from Cleary Avenue to Houma Blvd.; Jefferson Parish, LA:</b> A new 2250 LF 4-lane, urban roadway; which included a 13.5'h x 40'w, double barrel, 195' long box culvert at the Suburban Drainage Canal, tie-ins to existing streets, curb &amp; gutter and subsurface drainage. A 2200 LF concrete flume canal section with a bottom width of 30' and a capacity of 3,000 CFS was also constructed in Canal No. 4.</p>
Other Experience in Jefferson Parish				
<p>➤ <b>Roadways and Drainage</b></p> <p><b>Metairie Road Smart Growth; Jefferson Parish, LA:</b> Smart Growth items of work including lane reduction to permit more room for pedestrians and vehicle parking, wider sidewalks, demarcation of sidewalk with colored pavers, adding high-visibility crosswalks, new ADA compliant curb ramps, and the use of pervious concrete for non-travel lanes to reduce stormwater runoff.</p> <p><b>New On and Off Ramps at Lead Street to the Earhart Expressway (LA 3139) with Bridge Replacement; Jefferson Parish, LA:</b> A new at grade eastbound on-ramp from Lead Street to LA 3139; a new at grade westbound off-ramp from LA 3139 to Lead Street; and a new 100 LF reinforced concrete box culvert replacement for the existing Lead Street bridge over the Cross Canal, consisting of 2, 12'x14' barrels.</p> <p><b>Improvement to Veterans Memorial Boulevard from David Drive to Roosevelt Blvd.; Jefferson Parish, LA:</b> Widening 4,000 LF of urban roadway from four to six lanes, including traffic signalization, topographic survey, asphaltic concrete, curb &amp; gutter, and subsurface drainage, along with adjacent concrete sidewalks.</p> <p><b>Improvements to West Napoleon Avenue from Cleary Avenue to Houma Blvd.; Jefferson Parish, LA:</b> A new 2250 LF 4-lane, urban roadway; which included a 13.5'h x 40'w, double barrel, 195' long box culvert at the Suburban Drainage Canal, tie-ins to existing streets, curb &amp; gutter and subsurface drainage. A 2200 LF concrete flume canal section with a bottom width of 30' and a capacity of 3,000 CFS was also constructed in Canal No. 4.</p>				
<table border="1"> <thead> <tr> <th>Water Supply, Treatment and Distribution Experience</th> </tr> </thead> <tbody> <tr> <td> <p><b>Water Supply and Distribution System for the New Carville Job Corps Center; Iberville Parish, LA:</b> Design of the water distribution system for the entire 26.5 acre Job Corps Center campus including a water booster pump station, capable of pumping a maximum of 1,140 GPM from the existing ground storage tank at the adjacent National Guard site, to supply water to the Job Corps Center campus. The 6 building campus is served by a 6" diameter waterline loop to provide water for domestic purposes, the sprinklers in the dormitory and the outdoor fire hydrants. The distribution system is fed by a 12" water transmission line from the National Guard site.</p> <p><b>Desire Hope VI Revitalization; New Orleans, LA:</b> Master Planning and Engineering for the resubdivision and redevelopment of an existing 98 acre public housing complex into a new residential neighborhood. N-Y was responsible for engineering all street infrastructure in the subdivision as well as the engineering of all public utilities (water, fire protection, sewerage, and stormwater drainage including modeling of the drainage basin per LADOTD criteria). N-Y also assisted in the coordination of engineering tasks for private utilities (electricity, gas, phone and cable) and landscaping. N-Y provided these services as subconsultant to another firm.</p> </td> </tr> </tbody> </table>			Water Supply, Treatment and Distribution Experience	<p><b>Water Supply and Distribution System for the New Carville Job Corps Center; Iberville Parish, LA:</b> Design of the water distribution system for the entire 26.5 acre Job Corps Center campus including a water booster pump station, capable of pumping a maximum of 1,140 GPM from the existing ground storage tank at the adjacent National Guard site, to supply water to the Job Corps Center campus. The 6 building campus is served by a 6" diameter waterline loop to provide water for domestic purposes, the sprinklers in the dormitory and the outdoor fire hydrants. The distribution system is fed by a 12" water transmission line from the National Guard site.</p> <p><b>Desire Hope VI Revitalization; New Orleans, LA:</b> Master Planning and Engineering for the resubdivision and redevelopment of an existing 98 acre public housing complex into a new residential neighborhood. N-Y was responsible for engineering all street infrastructure in the subdivision as well as the engineering of all public utilities (water, fire protection, sewerage, and stormwater drainage including modeling of the drainage basin per LADOTD criteria). N-Y also assisted in the coordination of engineering tasks for private utilities (electricity, gas, phone and cable) and landscaping. N-Y provided these services as subconsultant to another firm.</p>
Water Supply, Treatment and Distribution Experience				
<p><b>Water Supply and Distribution System for the New Carville Job Corps Center; Iberville Parish, LA:</b> Design of the water distribution system for the entire 26.5 acre Job Corps Center campus including a water booster pump station, capable of pumping a maximum of 1,140 GPM from the existing ground storage tank at the adjacent National Guard site, to supply water to the Job Corps Center campus. The 6 building campus is served by a 6" diameter waterline loop to provide water for domestic purposes, the sprinklers in the dormitory and the outdoor fire hydrants. The distribution system is fed by a 12" water transmission line from the National Guard site.</p> <p><b>Desire Hope VI Revitalization; New Orleans, LA:</b> Master Planning and Engineering for the resubdivision and redevelopment of an existing 98 acre public housing complex into a new residential neighborhood. N-Y was responsible for engineering all street infrastructure in the subdivision as well as the engineering of all public utilities (water, fire protection, sewerage, and stormwater drainage including modeling of the drainage basin per LADOTD criteria). N-Y also assisted in the coordination of engineering tasks for private utilities (electricity, gas, phone and cable) and landscaping. N-Y provided these services as subconsultant to another firm.</p>				



**Improvements to West Esplanade Avenue from Bonabel Blvd. to Lake Avenue; Jefferson Parish, LA:** Widening this 1 mile, 1-lane roadway to a 2-lane urban roadway with curb & gutter, subsurface drainage and asphaltic concrete.

**Improvements to Destrehan Avenue, Phases I & II (Lapalco Blvd. to the West Bank Expy); Jefferson Parish, LA:** *Phase I* consisted of widening a 1.24 mile, 2-lane urban roadway with open ditches to a 4-lane asphaltic concrete urban roadway with curb & gutters, swale ditches and subsurface drainage. *Phase II* consisted of widening a 1.1 mile, 2-lane urban roadway to a 4-lane roadway with curb & gutter, swale ditches, subsurface drainage and asphaltic concrete. This phase was realigned to improve access to the Harvey Tunnel.

**Improvements to Suburban Drainage Canal; Sections 1, 2, 3, 4 and 5; Jefferson Parish, LA:** N-Y provided preliminary design from West Napoleon Ave. to Veterans Blvd., which included a hydraulic analysis to determine water surface elevations and geotechnical studies to determine slope stability. N-Y prepared preliminary plans for 3 box culverts at Interstate 10, measuring 11' x 20' feet each; 4 box culverts at Veterans Boulevard, measuring 11' x 21' each; a concrete flume section with a bottom width of 40' and a design flow of 3,000 CFS and a concrete flume section with a bottom width of 74' and a design flow of 3,600 CFS.

**Improvements to Drainage Canal No. 3; Jefferson Parish, LA:** Improvements to Drainage Canal No. 3 from I-10 to the Elmwood Canal consisting of an 1800 LF, 90' wide concrete flume section with side slope paving & a capacity of 4000 CFS.

**Duncan Canal Improvements at West Esplanade Avenue; Kenner, LA:** A Hydraulics Study and Preliminary & Final Design of a double barrel, 3000 CFS, 340 LF box culvert which will replace the existing bridges crossing the Duncan Canal.

**ARFF Perimeter Road, Stages 2 & 3, at Louis Armstrong New Orleans International Airport; Kenner, LA: Stage 2:** A 4660 LF roadway with a 4300 LF segment composed of P.C.C. with a 6" crushed limestone base course on a sand embankment with a geotextile fabric; and a 346 LF segment composed of 4" flexible asphalt pavement on a stone base course. **Stage 3:** A 9000 LF roadway with a 7700 LF segment composed of 4" flexible asphalt pavement over an 8" stone base course.

#### ➤ Flood Protection

**New Bayou Segnette Drainage Pumping Station for Jefferson Parish, LA:** A new 1200 CFS pumping station with two, 600 CFS horizontal pumps driven by diesel engines through gear reducers.

**Hoey's Basin Pump to the River Project; Jefferson Parish, LA:** Engineering Feasibility, Hydraulic Modeling and Conceptual Cost Estimates evaluating a new drainage pump station in the 2,400 acre Jefferson Parish portion of the 10,000 acre Hoey's Drainage Basin. Alternatives included a 1600 CFS station (with a 13' diameter, 5400 LF discharge force main) expandable to 2400 CFS and a 1000 CFS station with a detention pond for interim stormwater storage.

**Bayou Segnette Complex Flood Protection: 56' Wide Navigable Sector Gate, Floodwalls, Levee & Pump Station; Jefferson Parish, LA:** The replacement of the existing flood protection system from Bayou Segnette Pumping Station to Westwego Pumping Station No. 2 with new protection designed to the USACE Case 1 - 100 year level of protection.

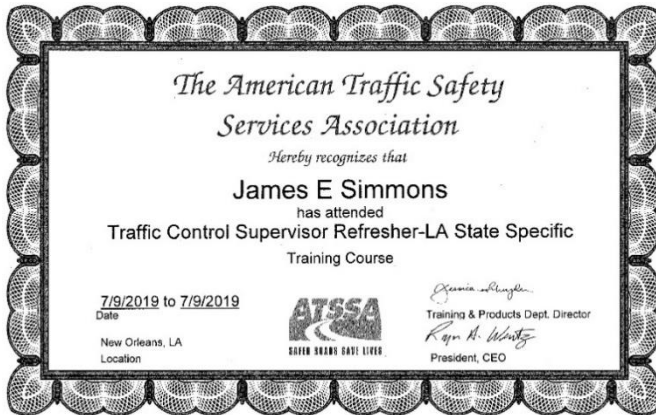
**750 CFS Interim Pump Facility at the East of Harvey Sector Gate Structure; Jefferson Parish, LA for the USACE:** Design and Engineering during Construction of a 750 CFS interim pump station facility with pumps and engines provided by the Government.

**Hurricane Protection Alignments, Westbank & Vicinity: A. Reconnaissance-Level Study, B1. WBV-72 Lake Cataouatche Levee, B2. WBV-74 Western Tie-In Closure Structure at Bayou Verret (Sellers Canal); Jefferson and St. Charles Parishes, LA: A.** Reconnaissance-level study for hurricane protection alignments, raised to FEMA 100 year future case (2057) level of protection. **B1.** 12,450 LF of earthen levee, 2 concrete access bridges, a drainage feature in the Davis Pond Guide Levee, & a new drainage path for Jefferson Parish's pump station. **B2.** A 56' wide navigable sector gate; by-pass channel; 450 LF of T-wall; 1700 LF of earthen levee; 5 gate sluice structure & permanent access road.

#### Memberships & Associations:

- American Society of Civil Engineers
- Society of American Military Engineers
- American Concrete Institute

## LICENSURE/CERTIFICATIONS - JAMES SIMMONS, PE



LOUISIANA PROFESSIONAL  
 ENGINEERING & LAND SURVEYING BOARD  
 (LAPELS)  
 9643 Brookline Avenue, Suite 121  
 Baton Rouge, LA 70809  
 Phone (225) 925-6291  
 www.lapels.com

**Mr. James E. Simmons**

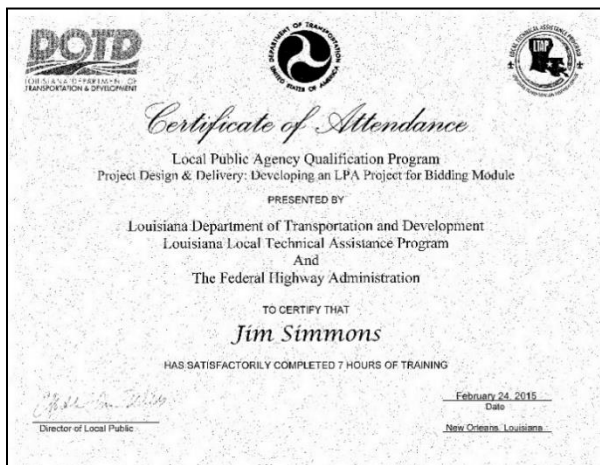
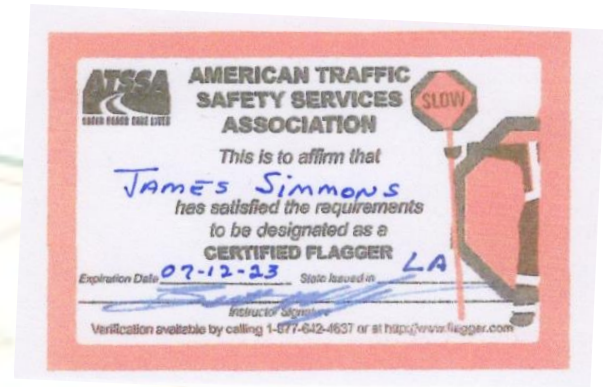
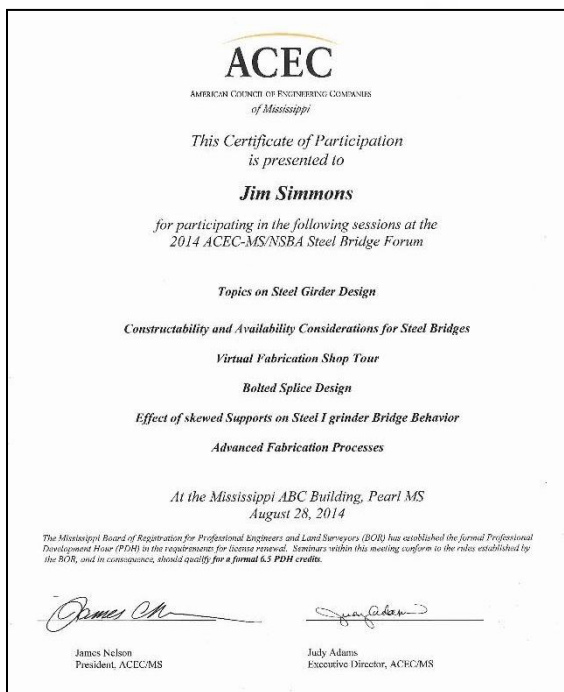
License/Certificate Type - Number

**PE.0019891**

Expiration Date

**09/30/2021**

Status: **Active**





KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<b>W. Tully Rhodes, PE – Civil Engineer</b>	
Project Assignment:	
<b>Senior Civil and Hydraulic Engineer</b>	
Name of Firm with which associated:	
<b>N-Y Associates, Inc.</b>	
Years' experience with this Firm:	
<b>18 Years</b>	
Education: Degree(s)/Year/Specialization:	
<b>Bachelor of Science/1976/ Civil Engineering; Master of Science/1977/Environmental Engineering</b>	
Active registration: Year first registered/discipline:	
<b>LA (19885)/1984/Civil Engineering                      MS (8055)/1980/Civil Engineering</b>	
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Rhodes has over 40 years of experience and has been in responsible charge of water, wastewater, street and drainage projects on the Mississippi Gulf Coast for over 30 years. He has worked almost exclusively as a project manager on Mississippi Gulf Coast county and municipal infrastructure projects since 1986.</p>	<p><b>Reconstruction of Lee Street; Biloxi, MS:</b> Street reconstruction including new water, sewage and drainage utilities.</p> <p><b>Reconstruction of Lily Lane (including Copp, Payton, Jefferson, and Estes Boulevards); Biloxi, MS:</b> Street reconstruction including new water, sewage and drainage utilities.</p>
<p><b>Water Supply, Treatment and Distribution Experience</b></p> <p>➤ <b>With N-Y</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Harrison County Utility Authority (W-19): Biloxi Broadwater Water System Improvements:</b> A 750,000 gallon elevated water storage tank and approximately 5000 LF of 16" water transmission line.</p> <p><b>Elevated Water Storage Tank No. 1, Popp's Ferry Road; Biloxi, MS:</b> A one million gallon elevated water tank, including surface preparation and painting of interior and exterior.</p> <p><b>North Biloxi Infrastructure Repair Program, Area 2, Phase 5; Biloxi, MS:</b> FEMA funded Hurricane Katrina damage repairs to approximately 6700 LF of city streets including pavement replacement and the replacement of sewerlines, waterlines, and storm drainage lines.</p> <p><b>Reconstruction of Pine Grove Street &amp; Briarfield Avenue, Phases I and II; Biloxi, MS:</b> Removal and replacement of 4,000 LF of pavement including waterlines, drainage pipe, manholes, sidewalks, sewerlines, hydrants and driveways.</p>	<p>➤ <b>With Other Firms</b></p> <ul style="list-style-type: none"> <li>▪ Water System Facilities Plan; West Harrison County, MS</li> <li>▪ Janice Water Association Wells and Distribution System</li> <li>▪ Water System Hydraulic Analysis; City of Wiggins, MS</li> <li>▪ Water System Facility Plan; City of Wiggins, MS</li> <li>▪ Pine / Myrtle Municipal Water Distribution Project; City of Biloxi</li> <li>▪ Utility Association Water System Hydraulic Analysis; Stone County, MS</li> <li>▪ Master Water Plan; City of Wiggins, MS</li> <li>▪ MDOT Canal Road Water Main Relocation</li> <li>▪ MDOT Dolan Mobile Home Park Utility Relocation</li> <li>▪ Industrial Water Transmission Project, Phase I &amp; II; Jackson County, MS</li> <li>▪ Master Utility Plan for the Helena Community; Jackson County, MS</li> <li>▪ Robert Road Municipal Water Well (2,500 gpm capacity)</li> <li>▪ Water Treatment Plant Expansion; City of Ruston, LA</li> </ul>

### Other Experience

#### ➤ Drainage

**Turkey Creek Drainage Analysis; Gulfport, MS:** HEC-RAS modeling a reach of Turkey Creek for the purpose of assessing the impact of flood stage water level on the efficiency of the existing municipal drainage system.

**Bayou Bernard Subdivision Design; Gulfport, MS:** HEC-RAS modeling a reach of Bayou Bernard for the purpose of generating a “No Rise” certification related to filling and grading for subdivision design and construction.

**Riverwalk Subdivision Design; D'Iberville, MS:** HEC-RAS modeling a reach of the Tchoutacabouffa River for the purpose of generating a “No Rise” certification related to filling and grading for subdivision design and construction.

**Washington Avenue Relocation; Harrison County, MS:** Watershed analysis for the Washington Avenue area using SWMM. This work was associated with the design of the municipal drainage system associated with the relocation of Washington Avenue.

**Easterbrook/St. John Drainage Project; Bay St. Louis, MS:** This project included approx. 1500' of storm drains on Easterbrook Street from St. Francis Street to St. John Street & approx. 1500' of storm drains on St. John Street.

#### ➤ Wastewater

**Parishwide Wastewater System Improvements: Major Pump Stations, Force Mains, and 7 Wastewater Treatment Plants, Phases I and II; St. John the Baptist Parish, LA – N-Y** was responsible for formulating a strategy for completing this parish-wide sewerage improvement program. This \$40 million program included the construction of four (4) new wastewater treatment plants; expansion and renovation of two (2) wastewater treatment plants; 60 new wastewater pump stations, 20 miles of wastewater force mains and 50 miles of new sewer lines, including repair of existing lines utilizing chemical grouting and CIPP Lining.

**Infiltration/Inflow Analysis, Sewer System Evaluation; Ocean Springs, MS:** Video inspection, point repairs, CIPP Slip Lining and internal grouting of sewer lines.

**The Biloxi Broadwater Wastewater Transmission System Improvements (S-21); Biloxi, MS:** A 3000 GPM sewage pump station and 9000 LF of 16" force main.

**Sewage Force Main from St. Michael Pump Station to Central Business District Pump Station; Biloxi, MS:** The installation of 5800 LF of 10" sewer force main.

**Central Business District Sewerage System Improvements; Biloxi, MS:** A new 2200 GPM sewage pumping station to replace an existing station. The project included 1270 LF of 10" sewer force main; 5584 LF of 14" sewer force main; and the installation of 1402 LF of 10" gravity sewer lines; 293 LF of 12" gravity sewer lines; and 227 LF of 15" gravity sewer lines.

**Gulfport to Biloxi Force Main; MS:** 13,000 LF of 20" diameter force main connecting the Debuys Pumping Station in Gulfport with the West Biloxi Sewage Treatment Plant.

**West Biloxi Interceptor System, including Seaway Island and Sunkist; Biloxi, MS:** A sewerage system consisting of 13,320 LF of gravity interceptor lines; 18,760 LF of force main; 4 new wastewater pumping stations; and modifications to an existing wastewater pumping station.

**EPA 208 Planning Study; Hancock, Harrison & Jackson Counties, MS:** Preparation of an EPA funded 208 plan which involved a coordinated effort to prevent pollution of all water bodies along the Mississippi Gulf Coast.

#### ➤ Program Management

**Program Management for the Port of Gulfport Restoration; Gulfport, MS:** Program Management for the Port of Gulfport's \$600 million restoration program following Hurricane Katrina (major subconsultant). N-Y was the lead Design Manager, responsible for reviewing the construction plans & specifications prepared by design firms. There were 18 engineering design contracts in this CDBG funded program.

### Memberships & Associations:

- American Society of Civil Engineers



**LICENSURE: W. TULLY RHODES, PE**



**LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)**

**9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
[www.lapels.com](http://www.lapels.com)**

**Mr. William Tully Rhodes**

License/Certificate Type - Number

**PE.0019885**

Expiration Date

**09/30/2021**

Status: **Active**



**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name &amp; Title:

**Neil D. Logan, PE – Civil & Structural Engineer**

Project Assignment:

**Civil and Structural Engineer**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**42 Years (contract consultant since 2003)**

Education: Degree(s)/Year/Specialization:

**Bachelor of Science/1961/Purdue University/Civil Engineering**

Active registration: Year first registered/discipline:

**LA (14607)/1974/Civil Engineering MS (07040)/1977/Civil Engineering**

Other experience and qualifications relevant to the proposed Project:

**Water Supply, Treatment and Distribution Experience**

**East Bank Water Treatment Plant, P2 Plant Chlorination System Evaluation; Jefferson Parish, LA:** Evaluation of the Chlorination System at the P2 Plant of the 52 MGD Eastbank Water Treatment Plant, to determine the best solution to eliminate safety concerns due to insufficient space within the chlorine cylinder room.

**East Bank Water Treatment Plant, P2 Plant Chlorination Building; Jefferson Parish, LA:** A new 61' x 21' chlorination building housing 6 on-line chlorinators (2 relocated and 4 new) and a storage area to house 10 additional chlorine cylinders, and an overhead crane.

**East Bank Water System, Bridge Repairs & Raw Water Intake Protection at East Bank Intake; Jefferson Parish, LA:** Inspection of the East Bank Intake Bridge and design of associated repairs; Installation of lighted buoys, concrete sinkers and warning signs for river traffic.

**West Bank Water Treatment Plant Intake Building & Other Improvements; Jefferson Parish, LA:** Enlarging the existing concrete platform and adding a new corrugated metal building to house the existing water intake structure; Enclosing the raw water pumps, adding two new spray water pumps to the 4 existing pumps, and a new baffle/weir system to keep debris from entering the water intake.

**Parishwide Water System Improvements, Phases I and II; St. John the Baptist Parish, LA:** Comprehensive engineering and feasibility reports, as well as a hydraulics model of the Parish's water distribution system to identify and evaluate required improvements. The project included over 60 miles of water line; Two 2.5 MGD water wells; 500,000 gallon elevated water storage tank; Four ground storage facilities; and 4 booster pumping stations.

**Lions Water Treatment Plant in Reserve; St. John the Baptist Parish, LA:** This project included increasing the capacity of the existing water treatment plant from 1.25 to 2.5 MGD. A hydraulic analysis was also conducted in order to determine the capacity and head requirements of the high service pumps.

**Edgard Water Treatment Plant; St. John the Baptist Parish, LA:** Upgrade of the existing 0.45 MGD plant to 1 MGD. A hydraulic analysis was performed to determine the capacity and head requirements of the high service pumps.

**Vacherie Water Treatment Plant; St. James Parish, LA:** Upgrade of the existing 1 MGD water treatment plant to 3 MGD, including new water intake structures. A hydraulic analysis was performed to determine the capacity and head requirements of the high service pumps.

**Convent Water Treatment Plant; Convent, LA:** Upgrade of the existing 1 MGD plant to 1.7 MGD, and repairs to water intake pipe.

**Memberships & Associations:**

- American Society of Civil Engineers

**LICENSURE/CERTIFICATIONS: NEIL LOGAN, PE**



**LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LPELS)**  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
[www.lapels.com](http://www.lapels.com)

**Mr. Neil D. Logan**

License/Certificate Type - Number

Expiration Date

**PE.0014607**

**03/31/2023**

Status: **Active**



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<b>Dennis G. Voss, NICET, Level IV</b>	
Project Assignment:	
<b>Senior Engineering Technician (Civil)</b>	
Name of Firm with which associated:	
<b>N-Y Associates, Inc.</b>	
Years' experience with this Firm:	
<b>46 Years</b>	
Education: Degree(s)/Year/Specialization:	
<b>Associate Degree/1968/Delgado Junior College/Engineering Technology</b>	
<b>2 years, Engineering Studies/1962-1965/University of New Orleans</b>	
Active registration: Year first registered/discipline:	
<b>National Institute for Certification in Engineering Technology (54584)/1976/Engineering Technician, Level IV</b>	
Other experience and qualifications relevant to the proposed Project:	
<p><b>Water Supply, Treatment and Distribution Experience</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Jefferson Parish Waterline Relocation at West Esplanade Avenue and Duncan Canal; Kenner, LA:</b> The replacement and relocation of existing Jefferson Parish waterlines from in the Duncan Canal (pile supported) to resting on top of the new double barrel, reinforced concrete box culvert.</p> <p><b>East Bank Water Treatment Plant, P2 Plant Chlorination System Evaluation; Jefferson Parish, LA:</b> Evaluation of the Chlorination System at the P2 Plant of the 52 MGD Eastbank Water Treatment Plant, to determine the best solution to eliminate safety concerns due to insufficient space within the chlorine cylinder room.</p> <p><b>East Bank Water Treatment Plant, P2 Plant Chlorination Building; Jefferson Parish, LA:</b> A new 61' x 21' chlorination building housing 6 on-line chlorinators (2 relocated and 4 new) and a storage area to house 10 additional chlorine cylinders, and an overhead crane.</p> <p><b>East Bank Water System, Bridge Repairs &amp; Raw Water Intake Protection at East Bank Intake; Jefferson Parish, LA:</b> Inspection of the East Bank Intake Bridge and design of associated repairs; Installation of lighted buoys, concrete sinkers and warning signs for river traffic.</p>	<p><b>P1 Plant Hydraulic Analysis; Jefferson Parish, LA:</b> A hydraulic analysis to determine the feasibility of raising the filter backwash troughs for the P1 Plant and to determine the head loss from the precipitators to the filter effluent clearwell. The capacity of the filter backwash pump was also analyzed in an effort to increase the plant capacity.</p> <p><b>West Bank Water Treatment Plant Intake Building; Jefferson Parish, LA:</b> Enlarging the existing concrete platform and adding a new corrugated metal building to house the existing water intake structure; Enclosing the raw water pumps, adding two new spray water pumps to the 4 existing pumps, and a new baffle/weir system to keep debris from entering the water intake.</p> <p><b>Shell Potable Water Line; St. John the Baptist Parish, LA:</b> Extension of the dead end 12" water line on Airline Highway (US 61) west of Terre Haute Road 3430 LF to the Shell facility for emergency purposes (Concha Lane).</p> <p><b>Waterline Replacement Program for portions of the CBD, French Quarter and Iberville Neighborhoods; New Orleans, LA:</b> <i>i.</i> Utility replacement and roadway reconstruction for 3 blocks of Decatur Street and 1 block of St. Peter Street including: replacement of 1471 LF of existing 24" waterline; replacement of 2919 LF of 18" drain line; CIPP Lining of 1433 LF of sewer line and 1719 LF of house connections; and removal and reconstruction of the existing roadway. <i>ii.</i> Waterline replacement and roadway reconstruction for portions of 28 different streets. The work included: 2500 LF of 8" waterline; 5000 LF of 12" waterline; 480 LF of 20" waterline; 1450 LF of 24" waterline; 1450 LF of 30" waterline.</p>



**Waterline Replacement Project 2.4; St. Bernard Parish, LA:** Replacement of existing water lines with 9,950 LF of new 8" water lines along portions of Esteban Street, Mehle Avenue, Aycock Street and Center Street in Arabi, LA. This project is funded by the Department of Health Drinking Water Revolving Loan Fund (DWRLF).

**Installation of a New 24" Waterline along East Judge Perez Drive (Torres Drive to Bayou Road; St. Bernard Parish, LA:** Installation of 5,000 LF of new 24" PVC waterline and tying a new waterline to existing lines at Torres Drive and Bayou Road, along with several off-sets to avoid conflict with existing utilities and drainage channels.

**Installation of a New 24" Waterline; Violet, LA:** A new 24" waterline extending approx. 3 miles to increase water pressure and provide fire protection. A hydraulic analysis was conducted in order to determine the size and residual water pressures in the line.

**Water Supply and Distribution System for the New Carville Job Corps Center; Iberville Parish, LA:** Design of the water distribution system for the entire 26.5 acre Job Corps Center campus including a water booster pump station, capable of pumping a maximum of 1,140 GPM from the existing ground storage tank at the adjacent National Guard site, to supply water to the Job Corps Center campus. The 6 building campus is served by a 6" diameter waterline loop to provide water for domestic purposes, the sprinklers in the dormitory and the outdoor fire hydrants. The distribution system is fed by a 12" water transmission line from the National Guard site.

**Water System Master Plan; St. Bernard Parish, LA:** N-Y determined the population and boundaries for service areas, peaking factor, unaccounted for water and maximum day demand for the Parishwide Water Master Plan. With the assistance of the Parish, N-Y completed C-factor tests on larger waterlines. (subconsultant)

**Water System Modeling; St. Bernard Parish, LA:** N-Y created the base map showing all waterlines 6" and larger for the Parishwide Water System Hydraulic Model. N-Y also completed the construction cost estimate for recommended improvements. (subconsultant)

**Elevated Water Tank; Reggio, LA:** A \$1 million, 500,000 gallon elevated hydropillar water tank with fluted steel columns.

**Elevated Water Tank for the Percy Griffin Community Center, Fire Water Supply; Plaquemines Parish, LA:** A FEMA funded 50,000 gallon elevated water tank.

**Parishwide Water System Improvements, Phases I and II; St. John the Baptist Parish, LA:** Comprehensive engineering and feasibility reports, as well as a hydraulics model of the Parish's water distribution system to identify and evaluate required improvements. The project included over 60 miles of water line; Two 2.5 MGD water wells; 500,000 gallon elevated water storage tank; Four ground storage facilities; and 4 booster pumping stations.

**Edgard Water Treatment Plant; St. John the Baptist Parish, LA:** Upgrade of the existing 0.45 MGD plant to 1 MGD. A hydraulic analysis was performed to determine the capacity and head requirements of the high service pumps.

**Lions Water Treatment Plant in Reserve; St. John the Baptist Parish, LA:** This project increased the capacity of the existing water treatment plant from 1.25 to 2.5 MGD. A hydraulic analysis was also conducted in order to determine the capacity and head requirements of the high service pumps.

**Parishwide Water System Improvements, Phases I and II; St. James Parish, LA:** A hydraulic analysis of the Parish's water distribution system to identify and evaluate required improvements. Design and construction administration for the installation of new water distribution lines.

**Vacherie Water Treatment Plant; St. James Parish, LA:** Upgrade of the existing 1 MGD water treatment plant to 3 MGD, including new water intake structures. A hydraulic analysis was performed to determine the capacity and head requirements of the high service pumps.

**Convent Water Treatment Plant; Convent, LA:** Upgrade of the existing 1 MGD plant to 1.7 MGD, and repairs to water intake pipe.

#### Memberships & Associations:

- American Society of Certified Engineering Technicians

**CERTIFICATIONS: DENNIS VOSS, NICET LEVEL IV**



**NATIONAL INSTITUTE FOR CERTIFICATION  
IN ENGINEERING TECHNOLOGIES®**

*Providing Certification Programs Since 1961*

BE IT KNOWN THAT

**Dennis G. Voss Sr.**

IS HEREBY AWARDED CERTIFICATION AT

Senior Engineering Technician

IN CIVIL ENGINEERING TECHNOLOGY

**BASED UPON SUCCESSFUL DEMONSTRATION OF REQUISITE KNOWLEDGE,  
EXPERIENCE AND WORK PERFORMANCE AS SET FORTH BY THIS INSTITUTE.**

Certification Valid Through 12/01/2023

CERTIFICATION NUMBER 54584

CHAIRMAN OF THE NICET BOARD OF GOVERNORS

A DIVISION OF THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

*Certificate of Attendance*

presented to

**Dennis Voss**

for attending the

**Roundabout Design Workshop  
Level 1**

and for having been awarded 12 Professional Developmental Hours

October 14-15, 2008

Baton Rouge, Louisiana

Authorized By

**LTRC**  
Louisiana Transportation Research Center

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:			
Name & Title:			
<b>Noah Jackson, CADD/GIS Technician</b>			
Project Assignment:			
<b>CADD/GIS Technician</b>			
Name of Firm with which associated:			
<b>N-Y Associates, Inc.</b>			
Years' experience with this Firm:			
<b>3 Years</b>			
Education: Degree(s)/Year/Specialization:			
<b>Associates Degree/Engineering Technology</b>			
Active registration: Year first registered/discipline:			
<b>N/A</b>			
Other experience and qualifications relevant to the proposed Project:			
<table border="1"> <thead> <tr> <th>Project Experience</th> </tr> </thead> <tbody> <tr> <td> <p>➤ <b>With N-Y</b></p> <p><b>Sewerage and Water Board of New Orleans Resiliency Complex; New Orleans, LA:</b> Renovation of the existing Head House Building for use as a Safe House with structural modifications to meet the FEMA P-361 criteria for wind speeds up to 190 mph; A new "Infill Building" designed to meet FEMA P-361 criteria for wind speeds up to 190 mph; and Hardening of the adjacent Engineering Complex (windows, doors and roof) to meet current IBC wind speeds up to 150 mph.</p> <p><b>West Shore Lake Pontchartrain, WSLP-109 Levees and Floodwalls; St. John the Baptist Parish, LA:</b> 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.</p> <p><b>West Shore Lake Pontchartrain, WSLP-114, Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:</b> 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRRS criteria associated with the following four West Shore project Drainage Pumping Stations: Hope Canal Pump Station, Reserve Relief Pump Station, I-55 Floodwall and Pump Station, and Prescott Canal Pump Station. (subconsultant)</p> <p><b>New Wastewater Treatment Plant for the St. Bernard Port, Harbor &amp; Terminal District:</b> A new 20,000 GPD Package Wastewater Treatment Plant which includes: A pre-fabricated steel treatment plant on a pile supported foundation; Electrical service and controls; Re-routing the pump station force main to the new plant; Effluent gravity line to a small pond; Chlorine gas feed to the treatment plant; Site work including grading, drainage, lighting and parking.</p> </td> </tr> </tbody> </table>	Project Experience	<p>➤ <b>With N-Y</b></p> <p><b>Sewerage and Water Board of New Orleans Resiliency Complex; New Orleans, LA:</b> Renovation of the existing Head House Building for use as a Safe House with structural modifications to meet the FEMA P-361 criteria for wind speeds up to 190 mph; A new "Infill Building" designed to meet FEMA P-361 criteria for wind speeds up to 190 mph; and Hardening of the adjacent Engineering Complex (windows, doors and roof) to meet current IBC wind speeds up to 150 mph.</p> <p><b>West Shore Lake Pontchartrain, WSLP-109 Levees and Floodwalls; St. John the Baptist Parish, LA:</b> 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.</p> <p><b>West Shore Lake Pontchartrain, WSLP-114, Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:</b> 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRRS criteria associated with the following four West Shore project Drainage Pumping Stations: Hope Canal Pump Station, Reserve Relief Pump Station, I-55 Floodwall and Pump Station, and Prescott Canal Pump Station. (subconsultant)</p> <p><b>New Wastewater Treatment Plant for the St. Bernard Port, Harbor &amp; Terminal District:</b> A new 20,000 GPD Package Wastewater Treatment Plant which includes: A pre-fabricated steel treatment plant on a pile supported foundation; Electrical service and controls; Re-routing the pump station force main to the new plant; Effluent gravity line to a small pond; Chlorine gas feed to the treatment plant; Site work including grading, drainage, lighting and parking.</p>	<p><b>New US 61 Highway Bridges and Bypass Road; East Baton Rouge Parish, LA:</b> New northbound and southbound highway bridges, each having two, 12' travel lanes, a 6' inside shoulder, a 10' outside shoulder and a design speed of 65 mph and an accompanying Bypass Road.</p> <p><b>Carney Road New Alignment and Bridge; East Baton Rouge Parish, LA:</b> A new alignment of approx. 1 mile of Carney Road and a new 3-span bridge crossing Bayou Baton Rouge including two, 11' travel lanes and 8' shoulders/bicycle lanes meeting East Baton Rouge's Complete Streets requirement.</p> <p><b>Barnett Road Relocation; East Baton Rouge, LA:</b> A new alignment of ½ mile of Barnett Road which includes two, 10' travel lanes and 2' shoulders and connects to US 61 north of the Comite River Diversion Channel.</p> <p>➤ <b>With Other Firms</b></p> <p><b>Johnson, Mirmiran &amp; Thompson (JMT); Mt. Pleasant, South Carolina (2017-2018) – Senior CADD Technician</b> Structures team member as a Senior CADD Technician.</p> <p><b>Fluor; Sugarland, TX (2014-2015) – Senior Designer</b> Responsibilities included design modulus for pipe and electric cable support for the SASOL project using SP3D Smart Sketch and Auto Cad.</p> <p><b>DOW Chemical Company (2011-2014) – Civil/Structural Designer</b> Engineering Solutions Civil\Structural SP3D designer for capital improvements and plant support.</p> <p><b>Bechtel Infrastructure (2006-2010) – Civil/Structural Designer</b> Responsible for support of design projects, including Gowanus Rehabilitation projects in New York City, producing 2D CADD drawings in MicroStation XM, Project Wise XM, and maintaining NYSDOT CADD Standards.</p>
Project Experience			
<p>➤ <b>With N-Y</b></p> <p><b>Sewerage and Water Board of New Orleans Resiliency Complex; New Orleans, LA:</b> Renovation of the existing Head House Building for use as a Safe House with structural modifications to meet the FEMA P-361 criteria for wind speeds up to 190 mph; A new "Infill Building" designed to meet FEMA P-361 criteria for wind speeds up to 190 mph; and Hardening of the adjacent Engineering Complex (windows, doors and roof) to meet current IBC wind speeds up to 150 mph.</p> <p><b>West Shore Lake Pontchartrain, WSLP-109 Levees and Floodwalls; St. John the Baptist Parish, LA:</b> 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.</p> <p><b>West Shore Lake Pontchartrain, WSLP-114, Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:</b> 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRRS criteria associated with the following four West Shore project Drainage Pumping Stations: Hope Canal Pump Station, Reserve Relief Pump Station, I-55 Floodwall and Pump Station, and Prescott Canal Pump Station. (subconsultant)</p> <p><b>New Wastewater Treatment Plant for the St. Bernard Port, Harbor &amp; Terminal District:</b> A new 20,000 GPD Package Wastewater Treatment Plant which includes: A pre-fabricated steel treatment plant on a pile supported foundation; Electrical service and controls; Re-routing the pump station force main to the new plant; Effluent gravity line to a small pond; Chlorine gas feed to the treatment plant; Site work including grading, drainage, lighting and parking.</p>			



Certificate of Completion for successfully completing

**Autodesk**

## Revit 2020 Fundamentals

24 contact hours  
November 19, 20, 23 & 24

**Noah Jackson**

Seminar Participant

**November 24, 2020**

Date of Completion



Ken Colgan, Trainer

**CADtech Seminars**

cadtechseminars.com

PO Box 2266, Mandeville, LA 70470 • 985.674.0234





KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:			
Name & Title:			
<b>Chris LeMay, CADD/GIS Technician</b>			
Project Assignment:			
<b>CADD/GIS Technician</b>			
Name of Firm with which associated:			
<b>N-Y Associates, Inc.</b>			
Years' experience with this Firm:			
<b>1 Year (20 with other firms)</b>			
Education: Degree(s)/Year/Specialization:			
<b>Associates of Science/Computer-Aided Drafting</b>			
Active registration: Year first registered/discipline:			
<b>N/A</b>			
Other experience and qualifications relevant to the proposed Project:			
<table border="1"> <thead> <tr> <th>Project Experience</th> </tr> </thead> <tbody> <tr> <td> <p>➤ <b>With N-Y</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Waterline Replacement Program for portions of the CBD, French Quarter and Iberville Neighborhoods; New Orleans, LA:</b> Utility replacement and roadway reconstruction for 3 blocks of Decatur Street and 1 block of St. Peter Street including: replacement of 1471 LF of existing 24" waterline; replacement of 2919 LF of 18" drain line; CIPP Lining of 1433 LF of sewer line and 1719 LF of house connections; and removal and reconstruction of the existing roadway.</p> <p><b>West Shore Lake Pontchartrain, WSLP-109 Levees and Floodwalls; St. John the Baptist Parish, LA:</b> 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.</p> <p><b>West Shore Lake Pontchartrain, WSLP-114, Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:</b> 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRRS criteria associated with the following four West Shore project Drainage Pumping Stations: Hope Canal Pump Station, Reserve Relief Pump Station, I-55 Floodwall and Pump Station, and Prescott Canal Pump Station. (subconsultant)</p> </td> </tr> </tbody> </table>	Project Experience	<p>➤ <b>With N-Y</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Waterline Replacement Program for portions of the CBD, French Quarter and Iberville Neighborhoods; New Orleans, LA:</b> Utility replacement and roadway reconstruction for 3 blocks of Decatur Street and 1 block of St. Peter Street including: replacement of 1471 LF of existing 24" waterline; replacement of 2919 LF of 18" drain line; CIPP Lining of 1433 LF of sewer line and 1719 LF of house connections; and removal and reconstruction of the existing roadway.</p> <p><b>West Shore Lake Pontchartrain, WSLP-109 Levees and Floodwalls; St. John the Baptist Parish, LA:</b> 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.</p> <p><b>West Shore Lake Pontchartrain, WSLP-114, Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:</b> 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRRS criteria associated with the following four West Shore project Drainage Pumping Stations: Hope Canal Pump Station, Reserve Relief Pump Station, I-55 Floodwall and Pump Station, and Prescott Canal Pump Station. (subconsultant)</p>	<p><b>Carney Road New Alignment and Bridge; East Baton Rouge Parish, LA:</b> A new alignment of approx. 1 mile of Carney Road and a new 3-span bridge crossing Bayou Baton Rouge including two, 11' travel lanes and 8' shoulders/bicycle lanes meeting East Baton Rouge's Complete Streets requirement.</p> <p><b>Improvements to France Road, from Hayne Blvd. to US 90/Chef Menteur Hwy for the Port of New Orleans:</b> The full reconstruction of 1.5 miles of roadway from two, 10' lanes to two, 11' lanes with 4' shoulders. A portion of the roadway was also raised to minimize potential periodic flooding.</p> <p>➤ <b>With Other Firms</b></p> <p><b>HMGP Elevation of Parish Roads, Coast Guard Road; Plaquemines Parish, LA:</b> CAD drawings for the proposed 2 foot elevation and stabilization for Coast Guard Road using AutoCAD Civil 3D and Storm &amp; Sanitary Analysis software from surveys, shapefiles, parcels and Hydrologic &amp; Hydraulic (H&amp;H Studies). Mr. LeMay also worked on creating a proposed gravity pipe network for stormwater improvements.</p> <p><b>Viola Street Widening; St. Tammany Parish, LA:</b> CAD drawings for the street milling, overlay and widening of lanes throughout Viola Street in St. Tammany Parish.</p> <p><b>Concrete Pavement Repair and Replacement; St. Bernard Parish, LA:</b> CAD drawings from hand sketches, field notes and manufacturer specs. Mr. LeMay assisted in the design and construction of Portland cement concrete pavement repairs in the Chalmette Vista and Buccaneer Villa neighborhoods of St. Bernard Parish.</p> <p><b>Asphalt Roadway Restoration; St. Bernard Parish, LA:</b> CAD drawings for the mill and overlay of existing asphalt roadways, base repairs and replacements, and repair or replacement of adjacent curb and gutter, driveways, and sidewalks at various locations.</p>
Project Experience			
<p>➤ <b>With N-Y</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Waterline Replacement Program for portions of the CBD, French Quarter and Iberville Neighborhoods; New Orleans, LA:</b> Utility replacement and roadway reconstruction for 3 blocks of Decatur Street and 1 block of St. Peter Street including: replacement of 1471 LF of existing 24" waterline; replacement of 2919 LF of 18" drain line; CIPP Lining of 1433 LF of sewer line and 1719 LF of house connections; and removal and reconstruction of the existing roadway.</p> <p><b>West Shore Lake Pontchartrain, WSLP-109 Levees and Floodwalls; St. John the Baptist Parish, LA:</b> 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.</p> <p><b>West Shore Lake Pontchartrain, WSLP-114, Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:</b> 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRRS criteria associated with the following four West Shore project Drainage Pumping Stations: Hope Canal Pump Station, Reserve Relief Pump Station, I-55 Floodwall and Pump Station, and Prescott Canal Pump Station. (subconsultant)</p>			

Certificate of Completion for successfully completing

Autodesk

# Revit 2020 Fundamentals

24 contact hours  
November 19, 20, 23 & 24

Chris LeMay

Seminar Participant

November 24, 2020

Date of Completion



Ken Colgan, Trainer

 **CADDtech Seminars**

[cadtechseminars.com](http://cadtechseminars.com)

PO Box 2266, Mandeville, LA 70470 • 985.674.0234

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:			
Name & Title:			
<b>James Junot, Engineering Designer</b>			
Project Assignment:			
<b>Field and Inspection Support</b>			
Name of Firm with which associated:			
<b>N-Y Associates, Inc.</b>			
Years' experience with this Firm:			
<b>1 Year (38 with other firms)</b>			
Education: Degree(s)/Year/Specialization:			
<b>Associates of Science/Civil Engineering</b>			
Active registration: Year first registered/discipline:			
<b>N/A</b>			
Other experience and qualifications relevant to the proposed Project:			
<table border="1"> <thead> <tr> <th>Project Experience</th> </tr> </thead> <tbody> <tr> <td> <p>➤ <b>With N-Y</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>West Shore Lake Pontchartrain, WSLP-109 Levees and Floodwalls; St. John the Baptist Parish, LA:</b> 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.</p> <p><b>West Shore Lake Pontchartrain, WSLP-114, Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:</b> 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRRS criteria associated with the following four West Shore project Drainage Pumping Stations: Hope Canal Pump Station, Reserve Relief Pump Station, I-55 Floodwall and Pump Station, and Prescott Canal Pump Station. (subconsultant)</p> <p><b>Replacement of 34 Rural Bridges, LADOTD Districts 08, 58 and 05; Winn, Grant, Natchitoches, Rapides, Vernon, Catahoula, Caldwell, Franklin and Jackson Parishes, LA:</b> The replacement of 34 rural bridges crossing creeks and bayous on the State Highway System in LADOTD District 08, 58 and 05. As subconsultant, N-Y is responsible for Hydraulic Analysis and Design, Categorical Exclusion Document (NEPA), Preliminary and Final Bridge Plans and Bridge Load Rating Report for each of the 34 structures.</p> </td> </tr> </tbody> </table>	Project Experience	<p>➤ <b>With N-Y</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>West Shore Lake Pontchartrain, WSLP-109 Levees and Floodwalls; St. John the Baptist Parish, LA:</b> 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.</p> <p><b>West Shore Lake Pontchartrain, WSLP-114, Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:</b> 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRRS criteria associated with the following four West Shore project Drainage Pumping Stations: Hope Canal Pump Station, Reserve Relief Pump Station, I-55 Floodwall and Pump Station, and Prescott Canal Pump Station. (subconsultant)</p> <p><b>Replacement of 34 Rural Bridges, LADOTD Districts 08, 58 and 05; Winn, Grant, Natchitoches, Rapides, Vernon, Catahoula, Caldwell, Franklin and Jackson Parishes, LA:</b> The replacement of 34 rural bridges crossing creeks and bayous on the State Highway System in LADOTD District 08, 58 and 05. As subconsultant, N-Y is responsible for Hydraulic Analysis and Design, Categorical Exclusion Document (NEPA), Preliminary and Final Bridge Plans and Bridge Load Rating Report for each of the 34 structures.</p>	<p><b>Five (5) New "Waskey-type" Bridges associated with the West Shore Lake Pontchartrain Flood Protection System, WSLP-114; St. Charles and St. John the Baptist Parishes, LA:</b> Design of five (5) new "Waskey-type" access bridges ranging in length from 60 feet to 160 feet using precast deck panels, precast pile bent caps, and precast barrier rails supported on precast concrete piles. The bridges vary in width: 24 foot, 16 foot and 12 foot clear width, gutter to gutter. The bridges are being designed for an AASHTO HS20 truck load (HL-93 loading).</p> <p>➤ <b>With Other Firms</b></p> <p><b>New Orleans Iron Works; New Orleans, LA (2017 – 06/2020) – Structural Detailer</b></p> <p><b>AECOM; New Orleans, LA (1982 - 2017) – Civil/Structural Designer:</b></p> <p>Prior to joining N-Y, Mr. Junot had 35 years of experience as a civil/structural designer including the production of plan and profile drawings and details for numerous street projects including:</p> <ul style="list-style-type: none"> <li>▪ Danny Drive/Croyden Avenue/Huntlee Drive; Algiers, LA</li> <li>▪ Aurora Drive; Algiers, LA</li> <li>▪ Crescent Street in Lakeview; New Orleans, LA</li> <li>▪ Emmet W. Bashful Boulevard near SUNO; New Orleans, LA</li> <li>▪ Tchoupitoulas Street Corridor; New Orleans, LA</li> <li>▪ Phillips 66 Refinery; Belle Chasse, LA: Raising the process block access roadway to prevent flooding.</li> <li>▪ Department of Energy's Strategic Petroleum Reserve Project at the Big Hill Site near Beaumont, TX: Layout and Details of the internal and access roadways at the site.</li> </ul>
Project Experience			
<p>➤ <b>With N-Y</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>West Shore Lake Pontchartrain, WSLP-109 Levees and Floodwalls; St. John the Baptist Parish, LA:</b> 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.</p> <p><b>West Shore Lake Pontchartrain, WSLP-114, Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:</b> 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRRS criteria associated with the following four West Shore project Drainage Pumping Stations: Hope Canal Pump Station, Reserve Relief Pump Station, I-55 Floodwall and Pump Station, and Prescott Canal Pump Station. (subconsultant)</p> <p><b>Replacement of 34 Rural Bridges, LADOTD Districts 08, 58 and 05; Winn, Grant, Natchitoches, Rapides, Vernon, Catahoula, Caldwell, Franklin and Jackson Parishes, LA:</b> The replacement of 34 rural bridges crossing creeks and bayous on the State Highway System in LADOTD District 08, 58 and 05. As subconsultant, N-Y is responsible for Hydraulic Analysis and Design, Categorical Exclusion Document (NEPA), Preliminary and Final Bridge Plans and Bridge Load Rating Report for each of the 34 structures.</p>			

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<b>Verlin Ladner, QAR</b>	
Project Assignment:	
<b>Field and Inspection Support</b>	
Name of Firm with which associated:	
<b>N-Y Associates, Inc.</b>	
Years' experience with this Firm:	
<b>7 Years</b>	
Education: Degree(s)/Year/Specialization:	
<b>High School Diploma</b>	
Active registration: Year first registered/discipline:	
<b>USACE Certified in Quality Assurance Management; LADOTD Certified in Asphalt Paving Inspection; LADOTD Level III Construction Inspector</b>	
Other experience and qualifications relevant to the proposed Project:	
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Quality Assurance Experience:</b> </div> <p>➤ <b>With N-Y</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Transcontinental/Vineland Booster Station Gravity Overflow Line; Jefferson Parish, LA:</b> Resident Inspection for an overflow bypass system which includes two, 24 inch sewer mains installed at the top of the above ground wet well which manifolds into a 36 inch sewer force main.</p> <p><b>Main Street Drainage Improvements; Plaquemines Parish, LA:</b> Resident Inspection for new subsurface drainage improvements on Main Street and Avenue "D" including a new 50 CFS drainage pump station discharging to the Mississippi River.</p> <p><b>Shell Potable Waterline; St. John the Baptist Parish, LA:</b> Resident Inspection for the extension of the dead end 12" waterline on Airline Highway (US 61) west of Terre Haute Road 3430 LF to the Shell facility for emergency purposes.</p> <p><b>Rehabilitation of the East-West Runway at Louis Armstrong New Orleans International Airport; Kenner, LA:</b> Full-time resident inspection for the segment of the East-West Runway Rehabilitation with lies over the "tunnel".</p> <p><b>Improvements to West Napoleon Avenue, from Cleary Avenue to Houma Boulevard; Jefferson Parish, LA:</b> Resident Inspection for a new four-lane, urban roadway. The 2250 LF project includes a 13.5'h x 40'w, double barrel, 195 foot long box culvert at the Suburban Drainage Canal, tie-ins to all existing streets, and curb and gutter and subsurface drainage.</p>	<p><b>Improvements to Veterans Memorial Boulevard, from David Drive to Roosevelt Boulevard; Metairie, LA:</b> Resident Inspection for widening 4,000 LF of urban roadway from four lanes to six lanes, including traffic signalization, topographic survey, asphaltic concrete, curb and gutter, and subsurface drainage, along with adjacent concrete sidewalks.</p> <p><b>Improvements to West Esplanade Avenue, from Bonnabel Boulevard to Lake Avenue; Jefferson Parish, LA:</b> Resident Inspection for improvements to West Esplanade Avenue from Bonnabel Boulevard to Lake Avenue, consisting of widening a 1 mile, 1-lane roadway to a 2-lane urban roadway with curb and gutter, subsurface drainage, and asphaltic concrete.</p> <p>➤ <b>With Other Firms</b></p> <p><b>Quality Assurance Representative and Resident Inspector for Various USACE Flood Control Projects (2007-2013):</b> Resident Inspection of various flood control projects including:</p> <ul style="list-style-type: none"> <li>▪ IHNC Hurricane Protection in New Orleans, LA</li> <li>▪ Lake Cataouatche Levee Enlargement and Pump Station Fronting Protection in Jefferson and St. Charles Parishes, LA;</li> <li>▪ WBV-76 Western Tie-in Hwy 90 Pump Station in Jefferson Parish, LA</li> <li>▪ WBV-74 Western Tie-In Closure Structure (Sector Gate) in St. Charles Parish, LA</li> <li>▪ Buras Levee Emergency Repairs</li> <li>▪ Empire Floodgate</li> <li>▪ Sunrise and Grand Laird Pump Stations</li> </ul>



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<b>Johnny Thompson, QAR</b>	
Project Assignment:	
<b>Field and Inspection Support</b>	
Name of Firm with which associated:	
<b>N-Y Associates, Inc.</b>	
Years' experience with this Firm:	
<b>4 Years (45 years with other firms)</b>	
Education: Degree(s)/Year/Specialization:	
<b>Associates Degree/Mechanical &amp; Electrical Engineering and HVAC Controls</b>	
Active registration: Year first registered/discipline:	
<b>N/A</b>	
Other experience and qualifications relevant to the proposed Project:	
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"><b>Quality Assurance Experience:</b></div> <p>➤ <b>With N-Y</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Mitigation of Outfall Canal Erosion Orleans Avenue Canal; New Orleans, LA:</b> Resident Inspection Services during the installation of canal bank erosion mitigation measures for approx. 1.65 miles of the Orleans Avenue Canal from I-610 to Robert E. Lee Boulevard. The mitigation measures include a 37,000 SY stone-filled cellular confinement system with geotextile fabric and 6" thick compacted crushed stone, and 441 CY of riprap.</p> <p><b>Port of South Louisiana – DOW Chemical Railyard Expansion; St. Charles Parish, LA:</b> Resident Inspection Services during the construction of a five-track railyard for DOW Chemical that will accommodate 200 rail cars.</p> <p><b>New 1<sup>st</sup> District Station for the Jefferson Parish Sheriff's Office; Jefferson Parish, LA:</b> Quality Assurance services for this 18,500 SF facility which includes a new 9,250 SF 1st District Office elevated one story above grade; and a 9,250 SF first floor including retail space &amp; storage for the Sheriff's Office. The 1st District Office will include offices, a meeting room, and typical support spaces (reception area, break room, toilet rooms, mechanical and electrical rooms, elevator &amp; stairs).</p>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"><b>Additional Project Experience:</b></div> <p>➤ <b>With Other Firms</b></p> <p><b>St. Charles Parish Public Works (2013-2016):</b> Mr. Thompson served as a Project Manager for the St. Charles Parish Department of Public Works. In this role, he was responsible for managing street, drainage, water and sewer projects of various sizes and costs.</p> <p><b>Resident Inspector/Site Representative, Civil &amp; Environmental Consulting Engineers (2000-2013):</b> Mr. Thompson served as a resident inspection and site representative for street, drainage, water and sewer projects of various sizes and costs.</p> <p><b>Hydrochem Industrial Services, Inc. (1999-2000):</b> Mr. Thompson served as a Project Manager for Hydrochem Industrial Services, Inc. In this role, he was responsible for managing projects of various sizes and costs.</p> <p><b>Brown &amp; Root Energy Services for CONOCO, Inc.; Lafayette, LA (1997 – 1999):</b> Mr. Thompson served as maintenance advisor for mechanical integrity, systems electrical and instrumentation for Brown &amp; Root Energy Services for CONOCO, Inc.</p> <p><b>Brown &amp; Root, Inc., Mobil Oil Co; Chalmette, LA (1996-1997):</b> Mr. Thompson served as a Project Superintendent for Brown &amp; Root, Inc. for Mobil Oil Co for various Capital Projects up to \$10 million. His responsibilities included turnaround planning and execution and supplementary maintenance.</p> <p><b>Brown &amp; Root, Inc., Petro-Chem Star Enterprise (TEXACO) (1995-1996):</b> Mr. Thompson served as a Project Superintendent for Brown &amp; Root, Inc. for Petro-Chem Star Enterprise (TEXACO). He was responsible for the planning and scheduling of various projects.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<b>Stanley J. Mitchell, QAR</b>	
Project Assignment:	
<b>Field and Inspection Support</b>	
Name of Firm with which associated:	
<b>N-Y Associates, Inc.</b>	
Years' experience with this Firm:	
<b>8 Years</b>	
Education: Degree(s)/Year/Specialization:	
<b>Various Technical and Managerial Courses provided by Civil Service</b>	
Active registration: Year first registered/discipline:	
<b>N/A</b>	
Other experience and qualifications relevant to the proposed Project:	
<p><b>Quality Assurance Experience:</b></p> <p>➤ <b>With N-Y</b></p> <p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA:</b> An assessment of the Jefferson Parish water system to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p><b>Cattle Farm Lift Station and Force Main; City of Kenner, LA:</b> 4300 LF of directionally drilled 14" sewer force main and the relocation of the new cattle farm lift station. The lift station included two 6" submersible pumps and associated controls.</p> <p><b>New Veterans Administration Medical Center Infrastructure Improvements; New Orleans, LA:</b> The complete reconstruction of the street pavement including concrete pavement and curb; crushed stone base course, sidewalks, driveways, handicapped ramps and replacement of subsurface utilities. This \$15 million project included the installation of 200 LF of 8" sewerline and 4500 LF of 24" sewerline, and CIPP lining of 1000 LF of 8" sewer pipe.</p> <p><b>Tchoupitoulas Corridor Signage and Striping; New Orleans, LA:</b> The reinstallation/replacement of deteriorated pavement markings and intersection signage and the replacement of all damaged/missing traffic control signs on Tchoupitoulas Street from Henry Clay Avenue to Melpomene Street.</p> <p><b>Street and Utility Reconstruction Projects for the City of New Orleans:</b> Reconstruction of concrete &amp; asphalt urban streets in the City of New Orleans. Projects also included intersection improvements, and the rehabilitation or replacement of water, sewer, and drainage utilities.</p>	<p>➤ <b>With Other Firms</b></p> <p><b>Thirty years of experience in utilities maintenance and technical support services with the Sewerage and Water Board of New Orleans (1982-2012)</b></p> <p><b>In this role, Mr. Mitchell's responsibilities included the following:</b></p> <ul style="list-style-type: none"> <li>▪ Managed and developed three (3) service departments with a staff of 123.</li> <li>▪ Responsible for contract work order repairs.</li> <li>▪ Managed projects from \$20,000 to millions of dollars in construction value.</li> <li>▪ Reported directly to the Chief of Networks.</li> <li>▪ Managed inspectors' routes and overtime. Regularly monitored contracts to keep costs down.</li> <li>▪ Conducted special analyses and cost comparisons and research reports.</li> <li>▪ Developed innovative solutions that reduced repair costs.</li> <li>▪ Set up check points within a work order to manage bottlenecks and deadlines.</li> <li>▪ Managed the testing of local water and sewer lines.</li> <li>▪ Managed construction of line and point repairs and replacement of water and sewer lines.</li> <li>▪ Closed work orders and conducted final inspections.</li> <li>▪ Managed staff to monitor and inspect job sites.</li> <li>▪ Monitored production, distribution, data processing, and final reports.</li> </ul>

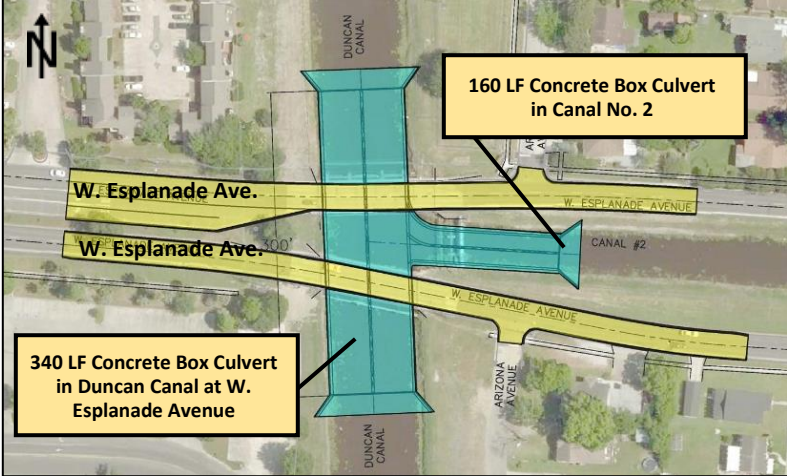

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

**PROJECT NO. 1**

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Jefferson Parish Water System Assessment; Jefferson Parish, LA</b></p> <p><b>Owner:</b> Jefferson Parish 1221 Elmwood Park Blvd. Jefferson, LA 70123</p> <p><b>Contact:</b> Mark Drewes, PE Director of Public Works (504) 736-6783</p> <div data-bbox="152 989 477 1297" style="border: 1px solid black; padding: 5px;"> <p><b><u>N-Y Personnel:</u></b> F. Nicoladis, PE C. Nicoladis, PE M. Nicoladis, EI, MBA F. Mortali, PE W. Tully Rhodes, PE Dennis Voss, NICET C. LeMay, CADD/GIS J. Junot, CADD</p> </div>	<p>An assessment of the Jefferson Parish water system (over 1,700 miles of waterlines) to prioritize projects for replacement of critical water pipeline infrastructure. The assessment will provide actionable recommendations for pipe renewal and will serve as the foundation for an improved waterline evaluation, renewal and management system.</p> <p>Tasks involved in this assessment include:</p> <ul style="list-style-type: none"> <li>Developing a basic water main evaluation and management framework to cost effectively evaluate critical and likely water main failures and plan for their timely replacement.</li> <li>Identifying known failing or problematic water mains and developing an approach with costs to correct those known immediate threats.</li> <li>Identifying critical transmission and distribution mains for further evaluation and developing an approach with costs to perform conditions assessment and refine criticality rankings.</li> <li>Identifying and developing guidance and tools to refine and evolve the system to continuously identify water mains to renew at the end of their service life, thereby minimizing future water main failures and minimizing repair and renewal costs.</li> </ul> <div data-bbox="734 1245 1393 1339" style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>N-Y (prime) and Mott MacDonald (subconsultant) are working together on this project.</b></p> </div>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$300,000 (fee)	100%






## PROJECT NO. 2





Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Jefferson Parish Waterline Relocation at West Esplanade Avenue and Duncan Canal; Kenner, LA</b></p> <p><b>Owner:</b> City of Kenner 1801 Williams Boulevard Kenner, LA 70062</p> <p><b>Contact:</b> Tom Schreiner, PE Deputy CAO Public Works and Capital Projects (504) 468-4090</p> <div data-bbox="203 919 469 1104" style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p><b>N-Y Personnel:</b> F. Nicoladis, PE C. Nicoladis, PE F. Mortali, PE D. Voss, NICET</p> </div>	<p>The replacement and relocation of existing Jefferson Parish Waterlines from in the Duncan Canal (pile supported) to resting on top of the new double barrel, concrete box culvert. The work performed included:</p> <ul style="list-style-type: none"> <li>▪ Approximately 220 LF of 36" diameter ductile iron potable water line pipe was installed, replacing existing pre-stressed concrete pipe.</li> <li>▪ Approximately 220 LF of 16" diameter ductile iron potable water line pipe was installed, replacing existing 16" pre-stressed concrete pipe. The new 16" water line pipe was connected to the existing pipe on one end with an adapter and connected to the new 36" ductile iron on the other end.</li> <li>▪ Additional plug, gate and butterfly valves were installed on both the new 16" and 36" ductile iron pipes to improve operation and maintenance.</li> </ul> <p>N-Y also performed a Hydraulics Study using HEC-RAS and LADOTD Standards, and Preliminary and Final Design of a 38'w x 13'h <i>double barrel, 3000 CFS, 340 LF reinforced concrete box culvert</i> which will replace the existing bridges and improve stormwater flow in the Duncan Canal at its intersection with Canal No. 2 at West Esplanade Avenue.</p> <p>N-Y also designed a 160 LF, 14'w x 8'h <i>double barrel reinforced concrete box culvert</i> in Canal No. 2, which intersects with the Duncan Canal. The project also includes the reconstruction of approximately 700 LF of eastbound and westbound W. Esplanade Avenue and included a topographic &amp; title survey, geotechnical investigation, traffic engineering, environmental assessment and landscape architecture and beautification/enhancements.</p>	
		
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	\$12 million	100%



### PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Experience at the East Bank and West Bank Water Treatment Plants; Jefferson Parish, LA</b></p> <p><b>Owner:</b> Jefferson Parish 1221 Elmwood Park Blvd. Jefferson, LA 70123</p> <p><b>Contact:</b> Mark Drewes, PE Director of Public Works (504) 736-6783</p> <div data-bbox="196 926 448 1110" style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p><b><u>N-Y Personnel:</u></b> F. Nicoladis, PE C. Nicoladis, PE N. Logan, PE D. Voss, NICET</p> </div>	<p><b>A. P2 PLANT CHLORINATION SYSTEM EVALUATION</b> This study included the <b>evaluation of the Chlorination System at the P2 Plant of the 52 MGD Eastbank Water Treatment Plant in Jefferson Parish, Louisiana</b>, to determine the best solution to eliminate safety concerns due to insufficient space within the chlorine cylinder room. Also included was an interim solution for a new roll-up door to the existing chlorine cylinder room to address safety concerns by allowing easier access for cylinder swap-outs and hook-ups.</p> <p><b>B. P2 PLANT CHLORINATION BUILDING</b> Design and construction administration for a <b>new 61' x 21' chlorination building</b> housing six (6) on-line chlorinators (2 relocated and 4 new) and a storage area to house ten (10) additional chlorine cylinders, and an overhead crane.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p><b>C. P1 PLANT HYDRAULIC ANALYSIS</b> A hydraulic analysis which determined the feasibility of raising the filter backwash troughs for the P1 Plant and to determine the head loss from the precipitators to the filter effluent clearwell. The capacity of the filter backwash pump was also analyzed in an effort to increase the plant capacity.</p> <div style="text-align: center;">  </div>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>A. 2001 (Study) B. 2005 C. 1997</p>	<p>A. \$40,000 (Fee) B. \$400,000 C. \$186,000</p>	<p style="text-align: center;">100%</p>

## PROJECT NO. 3 (Continued)

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Experience at the East Bank and West Bank Water Treatment Plants Jefferson Parish, LA</b></p> <p><b>Owner:</b> Jefferson Parish 1221 Elmwood Park Blvd. Jefferson, LA 70123</p> <p><b>Contact:</b> Mark Drewes, PE Director of Public Works (504) 736-6783</p> <div data-bbox="245 856 500 1045" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>N-Y Personnel:</b> F. Nicoladis, PE C. Nicoladis, PE N. Logan, PE D. Voss, NICET</p> </div> 	<p><b>D. NEW WEST BANK INTAKE BUILDING</b> Design, bidding, construction administration, and resident inspection for enlarging the existing concrete platform and adding a new, 64' x 32', corrugated metal building to house the existing water intake structure. The project included enclosing the raw water pumps, adding two (2) new spray water pumps to the four (4) existing pumps, and a new baffle/weir system to keep debris from entering the water intake. Also included was the addition of three (3), 24" diameter pipe pile dolphins in front of the baffle system to protect the intake from shipping traffic.</p> <div style="display: flex; justify-content: space-around;">   </div>  <p><b>E. BRIDGE REPAIRS AND RAW WATER INTAKE PROTECTION AT EAST BANK INTAKE:</b></p> <ol style="list-style-type: none"> <li>i. Inspection of the East Bank Intake Bridge and design of associated repairs utilizing new I-beams beneath the deck to strengthen the bridge and repairs to the concrete utilizing high-strength grout.</li> <li>ii. Installation of lighted buoys moored to piles and concrete sinkers and warning signs to provide warnings to river traffic. The projects required permits from the US Coast Guard, US Army Corps of Engineers and the LA Department of Natural Resources.</li> </ol>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>D. 2003 E. 2007</p>	<p>D. \$600,000 E. \$350,000</p>	<p>100%</p>

## PROJECT NO. 4

Project Name, Location and Owner's contact Information:	Nature of Firm's Responsibility:	
<p><b>Program Management of the FEMA Submerged Roads Program for the East Bank of Jefferson Parish, LA</b></p> <p><b>FEMA Funded</b></p> <p><b>Owner:</b> Jefferson Parish 1221 Elmwood Park Blvd. Jefferson, LA 70123</p> <p><b>Contact:</b> Mark Drewes, PE Director of Public Works (504) 736-6783</p>  <p><b>N-Y Personnel:</b> F. Nicoladis, PE M. Nicoladis, EI, MBA F. Mortali, PE</p>	<p>Design and Construction Management of \$83 million of FEMA funded concrete and asphalt street improvements throughout the East Bank of Jefferson Parish, due to damage sustained during Hurricane Katrina.</p> <p><i>N-Y was responsible for overall program implementation including the oversight of five (5) design engineers and approximately twenty (20) construction contractors. N-Y's scope of work included providing the Parish with the necessary documentation for FEMA's Project Worksheets (PWs) – including periodic updates and re-versioning to ensure proper cost reimbursements.</i></p> <p><b>Project Schedule:</b> Monitoring the project Schedule was a critical Program Management task. Each project included approx. 90 city blocks which required coordination with other Owner utility work in progress to avoid conflicts. Projects were also scheduled and bid to prevent local construction resources from being strained. The 20 construction projects were substantially completed by June 2016, which is 4 years and 6 months from project commencement. This time period included the negotiation of each of the engineering design contracts and the design itself. Because the Program Manager prepared the schedules and processed all invoices, construction progress was readily determined, and contractors were promptly notified if progress was not acceptable. <b>The Program was completed on schedule.</b></p> <p><b>Project Budget:</b> Monitoring and tracking the project budget was the other most critical Program Management task. N-Y was the sole Program Manager for the East Bank Concrete and Asphalt Program – but was responsible to track and monitor the entire \$100 million East Bank (\$83 million) and West Bank (\$17 million) project budget. This included tracking the following costs for each of the twenty (20) construction projects: Design, Construction, Materials Testing, Resident Inspection, and Program Management. Because the Owner was also paying for additional “ineligible” work that it wanted done on certain projects, FEMA “eligible” vs. “ineligible” costs were also tracked. <b>The Program was completed within the \$100 million budget.</b></p> <p><b>Project Reporting:</b> The following reports are examples of the project management tools and reports which N-Y used to manage this \$100 million project:</p> <ul style="list-style-type: none"> <li>▪ <b>Report 1: Submerged Road Program Management: East Bank Projects – Construction Schedule Report.</b></li> <li>▪ <b>Report 2: Submerged Road Program Management: Project Budget Tracking Reports – Concrete and Asphalt.</b> Please note that the Owner elected to perform approximately \$5 million of additional work that was not eligible for FEMA reimbursement.</li> <li>▪ <b>Report 3: Submerged Road Program Management: Cost Projection Report.</b> Please note that the Owner has elected to perform approximately \$5 million of additional work that is not eligible for FEMA reimbursement.</li> <li>▪ <b>Report 4: Submerged Road Program Management: FEMA Report.</b> This is a concise summary report of the status of the individual East Bank construction projects.</li> </ul>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$83 million	100%





# PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Waterline Replacement Program for the Sewerage and Water Board of New Orleans</b> New Orleans, LA</p> <p><b>Owner:</b> Sewerage and Water Board of New Orleans 625 St. Joseph St. New Orleans, LA 70165</p> <p><b>Contact:</b> Ron Spooner, PE Interim General Superintendent (504) 529-2837</p> <div data-bbox="207 919 508 1136"> <p><b>N-Y Personnel:</b> F. Nicoladis, PE C. Nicoladis, PE M. Nicoladis, EI, MBA F. Mortali, PE D. Voss, NICET</p> </div> <div data-bbox="142 1360 438 1661">  </div> <div data-bbox="488 1455 807 1755">  </div> <div data-bbox="849 1375 1144 1682">  </div> <div data-bbox="1190 1449 1485 1751">  </div>	<p><b>A. Utility Replacement and Roadway Reconstruction on Decatur and St. Peter Streets</b> Preliminary and Final Plans, Construction Administration and Resident Inspection for utility replacement and roadway reconstruction for 3 blocks of Decatur Street and 1 block of St. Peter Street including:</p> <ul style="list-style-type: none"> <li>▪ <b>Replacement of 1471 LF of existing 24" waterline including gate valves and valve boxes, new service connections and new fire hydrants.</b></li> <li>▪ CIPP Lining of 1433 LF of sewer line and 1719 LF of house connections</li> <li>▪ Removal of existing drainage lines and replacement with 2919 LF of 18" drain line</li> <li>▪ Removal and reconstruction of the existing roadway</li> <li>▪ Sidewalk and ADA ramp replacement, as required</li> </ul> <p><b>B. Waterline Replacement and Roadway Reconstruction for portions of the Central Business District, French Quarter and Iberville Neighborhoods</b> Preliminary and Final Plans, Construction Administration and Resident Inspection for waterline replacement and roadway reconstruction for portions of 28 different streets.</p> <p><b>The work included replacement of:</b></p> <ul style="list-style-type: none"> <li>▪ <b>2500 LF of 8" waterline</b></li> <li>▪ <b>5000 LF of 12" waterline</b></li> <li>▪ <b>480 LF of 20" waterline</b></li> <li>▪ <b>1450 LF of 24" waterline</b></li> <li>▪ <b>1450 LF of 30" waterline</b></li> </ul> <div data-bbox="1149 919 1485 1268">  </div>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>A. 2022 B. 2018</p>	<p>A. \$4.4 million B. \$11 million</p>	<p>100%</p>




## PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Water Distribution Projects</b> <b>St. Bernard Parish, LA</b></p> <p><b>Owner:</b> St. Bernard Parish Department of Public Works 1125 East St. Bernard Hwy Chalmette, LA 70043</p> <p><b>Contact:</b> Guy McInnis, Parish President (504) 278-4280</p> <div data-bbox="253 879 488 1068" style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p><b>N-Y Personnel:</b> F. Nicoladis, PE C. Nicoladis, PE F. Mortali, PE D. Voss, NICET</p> </div> <div data-bbox="219 1287 846 1686" style="margin-top: 20px;">  </div>	<p><b>A. Waterline Replacement Project 2.4 in Arabi, LA</b> Design and Bidding for the <b>replacement of existing water lines with 9,950 LF of new 8" water lines</b> along portions of Esteban Street, Mehle Avenue, Aycock Street and Center Street. This project was funded by the Department of Health Drinking Water Revolving Loan Fund (DWRLF).</p> <p><b>B. Installation of a New 24" Waterline Along East Judge Perez Drive (Torres Drive To Bayou Road)</b> Design, bidding, construction administration, and resident inspection services for the installation of <b>5,000 LF of new 24" PVC waterline</b> along East Judge Perez Drive. The project included tying a new waterline to existing lines at Torres Drive and Bayou Road, along with several off-sets to avoid conflict with existing utilities and drainage channels.</p> <p><b>C. Installation of A New 24" Waterline In Violet, LA</b> Design, bidding, construction administration and resident inspection of <b>approximately 3 miles of new 24" water line</b> to increase water pressure and provide fire protection. A hydraulic analysis was conducted in order to determine the size and residual water pressures in the line.</p> <div data-bbox="776 972 1414 1375" style="margin-top: 20px;">  </div>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>A. 2018 B. 2001 C. 1993</p>	<p>A. \$1.7 million B. \$500,000 C. \$1.4 million</p>	<p style="text-align: center;">100%</p>

# PROJECT NO. 7

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Shell Potable Water Line</b>  <b>St. John the Baptist Parish, LA</b></p> <p><b>Owner:</b>  St. John the Baptist Parish  1811 West Airline Highway  LaPlace, LA 70068</p> <p><b>Contact:</b>  Jaclyn Hotard, Parish President  (985) 652-9569</p> <div data-bbox="162 840 446 1060"> <p><b>N-Y Members:</b>  F. Nicoladis, PE  C. Nicoladis, PE  M. Nicoladis, EI, MBA  F. Mortali, PE  D. Voss, NICET</p> </div> <div data-bbox="113 1312 544 1717">  </div>	<p>Design, Bidding, Construction Administration and Resident Inspection for extending the dead end 12" water line on Airline Highway (U.S. 61) west of Terre Haute Road 3430 LF to the Shell facility for emergency purposes (Concha Lane).</p> <div data-bbox="617 594 1485 1005">  </div> <div data-bbox="576 1312 1015 1717">  </div> <div data-bbox="1047 1312 1497 1726">  </div>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$224,000	100%

## PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Water Supply and Distribution System for the Carville Job Corps Center; Iberville Parish, LA</b></p> <p><b>Owner:</b> U.S Dept. of Labor, Division of Contracting 200 Constitution Avenue NW Washington, D.C. 20210</p> <p><b>Contact:</b> Michael O'Malley (202) 693-3108</p> <div data-bbox="168 930 477 1150" style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p><b>N-Y Personnel:</b> F. Nicoladis, PE C. Nicoladis, PE J. Simmons, PE M. Nicoladis, EI, MBA D. Voss, NICET</p> </div>	<p><b>Design of the water distribution system for the entire 26.5 acre Job Corps Center Campus including a water booster pump station, capable of pumping a maximum of 1,140 GPM from the existing ground storage tank at the adjacent National Guard site, to supply water to the Job Corps Center Campus.</b></p> <p>This booster station was designed with multiple sized pumps and pumping combinations to accommodate low and high demands along with the maximum required fire flow. The booster station pumps approximately 1,000 feet to the site of the six Job Corps Center buildings.</p> <p>The six building campus is served by a 6" diameter PVC C-900 water line loop with ductile iron fittings and gate valves to isolate portions of the system. The loop provides water for domestic purposes, the sprinklers in the dormitory and the outdoor fire hydrants. The distribution system is fed by a 12" PVC water transmission line from the National Guard site.</p> <div data-bbox="636 993 1393 1539" style="text-align: center;">  </div>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2005	\$15 million (entire 6 building campus designed by N-Y)	100%





## PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Water Modeling and Master Planning in St. Bernard Parish, LA</b></p> <p><b>Owner:</b> St. Bernard Parish Department of Public Works 1125 East St. Bernard Highway Chalmette, LA 70043</p> <p><b>Contact:</b> Guy McInnis, Parish President (504) 278-4280</p> <div data-bbox="264 917 521 1077" style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p><b>N-Y Members:</b> F. Nicoladis, PE C. Nicoladis, PE D. Voss, NICET</p> </div>	<p><b>A. Water System Master Plan:</b> N-Y determined the population and boundaries for service areas, peaking factor, unaccounted for water and the maximum day demand for the Parishwide Water Master Plan. With the assistance of the Parish, N-Y completed C-factor tests on larger waterlines.</p> <p><b>B. Water System Modeling:</b> N-Y created the base map showing all waterlines 6 inches and larger for the Parishwide Water System Hydraulic Model. N-Y also completed the construction cost estimate for recommended improvements along with downloading pressure readings from pressure recorders installed at various locations throughout St. Bernard Parish.</p> <div data-bbox="695 802 1474 1260" style="text-align: center;"> </div>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>A. 2004 B. 2000</p>	N/A	100%



## PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Parishwide Water System Improvements; St. John the Baptist Parish, LA</b></p> <p><b>Owner:</b> St. John the Baptist Parish 1811 West Airline Highway LaPlace, LA 70068</p> <p><b>Contact:</b> Jaclyn Hotard, Parish President (985) 652-9569</p> <div data-bbox="215 867 459 1050" style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p><b><u>N-Y Personnel:</u></b> F. Nicoladis, PE C. Nicoladis, PE N. Logan, PE D. Voss, NICET</p> </div> 	<p>N-Y provided comprehensive engineering and feasibility reports, as well as a hydraulics model of the Parish's water distribution system to identify and evaluate required improvements.</p> <p>This improvement program included design, bidding and construction administration for:</p> <ul style="list-style-type: none"> <li>▪ 500,000 gallon elevated water storage tank at LA 3188 (Belle Terre Blvd.) in Laplace;</li> <li>▪ Approximately 50 miles of 6" to 18" distribution lines, including 12 miles of 18" water line along U.S. Highway 51;</li> <li>▪ Two (2), 2.5 MGD water wells at Ruddock;</li> <li>▪ Four (4) ground storage facilities totaling over 1 million gallons in capacity along US 51 from Ruddock to LaPlace; and</li> <li>▪ Four booster pumping stations from Ruddock to LaPlace</li> </ul>  <div data-bbox="951 1617 1446 1675" style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>Belle Terre Elevated Water Tank</b></p> </div>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
1990	\$20 million	100%

<b>M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.</b>		
<b>Parties:</b>		<b>Status/Result of Case:</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
<i>N-Y has no on-going litigation with Jefferson Parish.</i>		
<b>N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.</b>		
<div style="background-color: #e6f2ff; padding: 5px; text-align: center; font-weight: bold;">SECTION N. TABLE OF CONTENTS</div> <div style="background-color: #e6f2ff; padding: 5px;"> <b>I. EXECUTIVE SUMMARY</b> </div> <div style="background-color: #e6f2ff; padding: 5px;"> <b>II. EVALUATION CRITERIA</b> <ol style="list-style-type: none"> <li>1. Professional Training and Experience</li> <li>2. Capacity for Timely Completion</li> <li>3. Location of the Principal Office</li> <li>4. Adversarial Legal Proceedings</li> <li>5. Prior Successful Completion of Projects</li> <li>6. Size of Firm</li> <li>7. Past Performance</li> </ol> </div> <div style="background-color: #e6f2ff; padding: 5px;"> <b>III. QUALITY ASSURANCE PROGRAM</b> </div> <div style="background-color: #e6f2ff; padding: 5px;"> <b>IV. THE N-Y ADVANTAGE</b> </div>		<div style="background-color: #e6f2ff; padding: 5px; text-align: center; font-weight: bold;">II. EVALUATION CRITERIA</div> <div style="background-color: #e6f2ff; padding: 5px; text-align: center; font-weight: bold;">1. Professional Training and Experience</div> <div style="padding: 5px;"> <p>➤ <b>Personnel</b></p> <p>N-Y's personnel are highly qualified and have the necessary experience to provide the required professional services to support this project. The professional qualifications, integrity, reliability and commitment of our personnel has earned N-Y an excellent reputation among our clients.</p> <p>Constantine F. Nicoladis, PE, a Vice President and Civil Engineer, will serve as N-Y's Project Manager. He has 34 years of experience and is in responsible charge of the design and construction engineering of the firm's municipal and Parish water work. Mr. Nicoladis has extensive experience with water supply, treatment and distribution projects – with decades of experience in Jefferson Parish.</p> <p>Mr. Nicoladis will be supported by a team of senior engineers and support personnel with over thirty (30) years average experience, including Fred Mortali, PE; James E. Simmons, PE; Neil Logan, PE; W. Tully Rhodes, PE; and Dennis Voss, NICET. Most of these professionals have been with N-Y over twenty (20) years and have successfully completed many water supply, treatment and distribution projects throughout Southeast Louisiana.</p> <p><b>Provided in Section K of this TEC Questionnaire are detailed resumes outlining the extensive professional training and experience of N-Y's key personnel.</b></p> <p>N-Y is considered a leader in the engineering field. Our professional staff members keep abreast of the latest technological advances and are active members in a variety of professional organizations including:</p> </div>
<div style="background-color: #e6f2ff; padding: 5px; text-align: center; font-weight: bold;">I. EXECUTIVE SUMMARY</div> <div style="padding: 5px;"> <p>Although N-Y Associates, Inc. is sometimes mistaken for "New York", N-Y is actually a fifty-two (52) year-old family owned, multi-discipline firm founded and headquartered in Jefferson Parish. Offering extensive local experience, N-Y has been providing engineering, architecture, planning and project management services to federal, state, regional, parish and city agencies throughout southern Louisiana since 1969.</p> <p>N-Y's staff includes civil, hydraulic and structural engineers; project managers; architects; urban planners; construction inspectors and technical support personnel, each of whom offers experience providing professional services on water projects throughout Jefferson Parish and the metro area.</p> <p>N-Y has worked extensively throughout Jefferson Parish since its inception. Our public agency clients include the Parish, the City of Kenner, the New Orleans Aviation Board, the Jefferson Parish Sheriff's Office, the Jefferson Parish School Board, LADOTD, and the Regional Planning Commission. This longevity has provided N-Y with extensive knowledge of the design criteria, system of approvals, and construction methods unique to infrastructure in this area.</p> </div>		

- American Society of Civil Engineers
- Society of American Military Engineers
- Council of Engineering Companies of Louisiana
- Louisiana Engineering Society
- American Council of Engineering Companies
- American Public Works Association
- National Society of Professional Engineers
- American Concrete Institute
- Water Environment Federation
- American Waterworks Association
- American Planning Association
- American Institute of Architects
- Louisiana Architects Association

## 2. Capacity for Timely Completion

N-Y has ample capacity of personnel, computer software and equipment to provide any anticipated tasks related to this contract in a timely, efficient and cost effective manner. Taking into consideration the firm's present and projected workload, the depth of our staff will ensure that your project will progress even with normal loss of staff time due to vacations, sick leave and other absences.

## 3. Location of the Principal Office

All of N-Y's work will be performed from our local office in Jefferson Parish at 2750 Lake Villa Drive, Metairie, LA 70002.

## 4. Adversarial Legal Proceedings

N-Y has no on-going legal proceedings with Jefferson Parish.

## 5. Prior Successful Completion of Projects

N-Y has been providing engineering services in Jefferson Parish continuously for over forty-five (45) years and has successfully completed many projects for the Parish. N-Y's personnel are experienced in the design and construction of all types of water facilities including water supply, treatment and distribution.

Detailed project experience is highlighted in Section L of this TEC Questionnaire. In addition to this experience, N-Y also has the following experience providing professional services on water projects:

### ➤ Water Distribution

- Chilled 30" diameter water distribution expansion to the Roosevelt Hotel in New Orleans, LA which included 1,600 LF of 30" chilled water supply and return lines
- Desire Hope VI Revitalization in New Orleans, LA which included all street infrastructure and public utilities (water, fire protection, sewerage and drainage) for a 98 acre public housing complex
- Utility System improvements at the St. Bernard Public Housing Development which included the replacement of 14,600 LF of 1" to 12" waterline.
- Spartan Drive Waterline Extension in Slidell, LA which included the 3,550 LF extension of a dead end 8" waterline to tie into an existing waterline.
- Alton Water Supply in St. Tammany Parish, LA which included approximately 5 miles of water distribution line to serve the Alton area.

### ➤ Water Storage

- A 500,000 gallon elevated hydropillar water tank with fluted steel columns in Reggio, LA
- A 50,000 gallon elevated water tank with steel leg columns for Fire Water Supply for the Percy Griffin Community Center in Plaquemines Parish, LA
- An Elevated water storage tank which serves the town of Reserve and an industrial park in St. John the Baptist Parish, LA
- A 200,000 gallon elevated water tank at Ellisville State School in Ellisville, LA

### ➤ Water Treatment

- Lions Water Treatment Plant in St. John the Baptist Parish, LA to increase the capacity of the existing water treatment plant from 1.25 to 2.5 MGD
- Edgard Water Treatment Plant in St. John the Baptist Parish, LA to upgrade the existing 0.45 MGD plant to 1 MGD.
- Vacherie Water Treatment Plant in St. James Parish, LA to upgrade the existing 1 MGD water treatment plant to 3 MGD, including new water intake structures
- Convent Water Treatment Plant in St. James Parish, LA to upgrade the existing 1 MGD plant to 1.7 MGD, and repairs to the water intake pipe.



## 6. Size of Firm

N-Y's current staff of professional and support personnel are capable of performing the type of engineering tasks anticipated from this contract. N-Y has the capacity to effectively perform this work with its existing staff and meet schedules set by the Parish.

## 7. Past Performance

### ➤ Cost

N-Y has earned a reputation for consistently designing projects whose construction costs are within budget requirements. This record of successful construction cost control is maintained by an aggressive in-house program of monitoring each project during the concept, preliminary, & final design phase as well as during the construction phase.

The N-Y staff has considerable experience in the analysis and review of cost projections so that cost control is coordinated, and effective as evidenced by most of our recent projects where the actual bid by the general contractor has been within a few percentage points of N-Y's estimate and the owner's programmed budget.

**Our goal is to be pro-active to avoid and mitigate unforeseen conflicts and to address potential problems before they occur. As a result, disputes and change orders can be minimized and projects can be completed on time and within budget.**

### ➤ Quality of Work

The quality of our services in the area of planning, design, and construction administration services has been consistently commended by our clients, including projects for the federal government and Jefferson Parish. Most of the firm's clients are repeat clients. N-Y has been working with many clients since it was established 52 years ago.

### ➤ Compliance with Performance Schedules

N-Y has an established performance record of successfully completing design and/or construction phase services, including the coordination of the services of outside consultants, in accordance with schedules which have been approved by our clients. As a testament to its professionalism and successful project execution, N-Y has been repeatedly selected to provide professional services for many of its clients, including:

- **Jefferson Parish:** N-Y has been providing engineering services in Jefferson Parish continuously for forty-five (45) years. *Provided after this section are Letters of Recommendation from Mark Drewes, Director of Public Works and Reda Youssef, former Director of Capital Projects attesting to the exceptional services provided by N-Y.*
- **Louisiana Department of Transportation and Development:** *N-Y has been providing professional services continuously for LADOTD since 1975* for the following types of projects: *Stage 0: Feasibility Studies, Line & Grade Studies, Environmental Inventories and Corridor Studies; Stage 1: Environmental Assessments; Environmental Impact Statements; and Construction Plans and Specifications for Roadway, Highway and Bridge Projects.*
- **City of New Orleans, Department of Public Works:** *N-Y has been providing professional engineering services continuously for roadway enhancement and reconstruction projects for NODPW since 1980.* Over the past thirty-five (35) years, N-Y has prepared plans and specifications and provided construction engineering and resident inspection for the reconstruction of over twenty (20) miles of concrete and asphalt urban streets in the City of New Orleans.
- **U.S. Army Corps of Engineers, New Orleans District:** N-Y met all its interim and final deadlines on over twenty (20), post-Katrina Task Orders for the U.S. Army Corps of Engineers, New Orleans District. *As a testament to the USACE's confidence in N-Y, N-Y was recently one of only four firms in the New Orleans District that was awarded a new five-year, General Engineering Services Indefinite Delivery contract. Provided after this section is a Past Performance Questionnaire and federal ACASS Ratings received by the USACE, New Orleans District.*

N-Y has not had any significant problems with time delays or cost overruns, except in the case of owner-requested and/or owner-approved changes to the original scope of work. **Ninety-five percent (95%) of our work is for government agencies.**



### ➤ Public Contracts

N-Y has an excellent professional reputation with all of its clients in the south Louisiana area. The firm has provided services to virtually every public agency in the metropolitan area as well as various State and Federal agencies.

#### Regional Clients:

- Jefferson Parish, Department of Public Works
- Jefferson Parish, Department of Capital Projects
- Jefferson Parish School Board
- City of Kenner
- New Orleans Aviation Board
- St. Bernard Parish Government
- St. Bernard Port, Harbor and Terminal District
- St. Bernard Parish School Board
- St. Tammany Parish Government
- St. Tammany Parish School Board
- City of Slidell
- Plaquemines Parish Government
- City of New Orleans, Capital Projects Administration
- City of New Orleans, Department of Public Works
- Sewerage and Water Board of New Orleans
- Housing Authority of New Orleans
- Orleans Levee District
- Orleans Parish School Board
- Port of New Orleans
- Port of South Louisiana
- St. Mary Parish Library Board
- St. Charles Parish Library Board
- St. Charles Parish, Department of Public Works
- St. John the Baptist Parish Dept. of Public Works

#### State Clients:

- LA Department of Transportation and Development
- Division of Administration, Facility Planning & Control
- LA Department of Education, Recovery School District

#### Federal Clients:

- United States Army Corps of Engineers
- United States Department of Labor
- United States Coast Guard
- Naval Support Activity, New Orleans Division
- Southern Division, Naval Facilities Engineering Command
- United States Postal Service
- United States Fish and Wildlife Service
- United States Department of Veterans Affairs
- Federal Emergency Management Agency

### III. DESIGN QUALITY CONTROL/ASSURANCE PROGRAM

N-Y considers quality control/assurance and technical review a critical component of our client service philosophy. N-Y's repeated selection by government agencies and private sector clients attests to the quality and consistency of our work. **N-Y has established a Quality Control/Assurance Plan which is customized to meet the individual client's needs and is overseen on each project by the Principal and Project Manager.**

We recognize that a Quality Control/Assurance Plan is only effective if a project is staffed by experienced, responsible and motivated professionals. N-Y's Quality Control/Assurance Plan includes carefully organizing the project team with the Project Manager as team leader and communicating effectively with all persons involved in the design and review processes.

- During the initial phase of the Quality Control/Assurance process, each team member is provided with a copy of the Scope of Work to become familiar with the job and formulate any questions or concerns that they may have. Next, the team gathers for a thorough review of the supplied Scope of Work. During this review process, the team collaborates to achieve a clear understanding of the Scope of Work in its entirety. This process takes place as an open forum in which members ask questions that they may have for clarification, with each member being able to contribute their own expertise. Questions that are unable to be answered collectively as a team are documented and compiled into a list for discussion with the Client. This meeting clarifies and/or resolves any outstanding issues upfront.
- Next, we address the assurance of compliance with any government technical manuals or documents that govern or control design activities that will be performed. A review of each of these documents is carried out, ensuring that each is the most current version. Each element of work to be performed is reviewed for compliance with these documents.

- Project timelines are created to adequately assess each phase of the project. Each phase contains key milestones, as well as completion schedules to confirm that due dates are adhered to. By utilizing these project timelines, Quality Control/Assurance issues are resolved in an efficient and timely manner and not allowed to continue into subsequent phases of the project.
- At the start of the design process, the applicable disciplines and quality assurance reviews are planned. Manhours specifically dedicated to quality assurance reviews are allocated to the project budget. Adequate time is budgeted in the project schedule for the review process and any modifications that may be required. The Quality Control/Assurance Plan is reviewed and approved by the Project Manager. The work product and submittal items of all disciplines are then reviewed prior to each submittal by **Independent Technical Reviewers (ITR)** in each discipline who are not directly involved with the project. The Project Manager also checks and reviews final work products prior to submittals to the client.
- The Principal and the Project Manager receive management information system reports of project progress. Regularly scheduled staff meetings are held, in which projects are reviewed for conformance with predetermined completion schedules. If required, schedules and staffing are promptly adjusted to ensure deadlines are met without any sacrifice in quality.

***This multi-level system of quality assurance checks and balances, including detailed reviews by Independent Technical Reviewers, submittal review by the Project Manager, and program monitoring and implementation by the Principal, is the core of N-Y's Quality Control/Assurance Plan.***

N-Y maintains, as always, its goal of adherence to client's schedules and budgets. We are constantly striving to improve our Quality Control/Assurance Plan to deliver the highest quality plans and specifications possible and to minimize changes to construction contracts.

#### IV. THE N-Y ADVANTAGE

N-Y Associates, Inc. is dedicated to providing high-quality, timely, and cost-effective professional services, strongly believing in a management system that recognizes its client's needs. N-Y strives to ensure an excellent working relationship is established with each of its clients by:

- Personally assisting the client from the very early planning stages of the project to the completion of construction;
- Having principals become personally involved in keeping the lines of communication open with the client;
- Assigning experienced project managers who offer innovative and proven solutions to meet the client's needs;
- Making every effort to ensure our resources are efficiently utilized to meet a project's schedule and adhere to a project's budget;
- Designing and constructing projects that meet or exceed the client's expectations in functionality, low-maintenance, quality, and longevity.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature:  \_\_\_\_\_

Print Name: Michael F. Nicoladis

Title: Senior Vice President

Date: 03/16/2021



# JEFFERSON PARISH

## Department of Engineering Public Works

January 25, 2016

**Michael S. Yenni**  
Parish President

**Mark R. Drewes, P.E.**  
Director

Ladies and Gentlemen:

The Jefferson Parish, Department of Engineering extends its appreciation to N-Y Associates, Inc. for providing superior engineering and program management services to the Parish.

N-Y has provided quality professional services in Jefferson Parish for over 40 years. During my ten years as Director of Engineering, I have had the opportunity to work with N-Y on multiple occasions and have found N-Y's professionalism, competence and initiative to be instrumental to successful project execution and completion. Provided below are some examples of N-Y street and roadway projects completed for Jefferson Parish.

- Improvements to Destrehan Avenue, Phases I and II
- Improvements to Veterans Memorial Boulevard (David Drive to Roosevelt Boulevard)
- Improvements to West Esplanade Avenue (Bonnabel Boulevard to Lake Avenue)
- Improvements to West Napoleon Avenue (Cleary Avenue to Houma Boulevard)
- Program Management for Eastbank FEMA Submerged Roads Program

I have also worked with N-Y on LADOTD and RPC projects in Jefferson Parish that provide regional benefits for the Greater New Orleans Metropolitan Area, for which N-Y was the consultant. These projects include:

- Environmental Assessment for the Causeway/Earhart Interchange, Route LA 3139
- East-West Corridor Multi-Modal Environmental Impact Statement
- Environmental Assessment for New Bridge Crossings over the Lower Harvey Canal

It has been a pleasure working with N-Y and its expert design team. Through my experience with N-Y, it is with confidence that I would recommend them for projects of similar requirements in the future.

Sincerely,

A handwritten signature in blue ink that reads "Mark R. Drewes".

Mark R. Drewes, P.E.

Director

Department of Engineering



# JEFFERSON PARISH

Department of Capital Projects  
Public Works

Michael S. Yenni  
Parish President

Reda M. Youssef, P.E.  
Director

January 20, 2016

Ladies and Gentlemen:

The Jefferson Parish Department of Capital Projects would like to commend N-Y Associates, Inc. on an exceptional job providing Program Management Services for the Parish.

For the past 5 years, N-Y has provided Program Management for the design and construction of the FEMA Submerged Roads Program for the Eastbank of Jefferson Parish. N-Y has been responsible for overall program implementation including the oversight of four (4) design engineers and approximately twenty (20) construction packages. I have been very pleased with the quality of service and professionalism of N-Y and its staff. The program will be completed on time and within the \$100 plus million budget. The commitment of N-Y's leadership and Program Management team has been integral to the success of this program.

N-Y Associates, Inc. is knowledgeable and capable, and I would highly recommend them to anyone needing expert design, engineering or program management services.

Sincerely,



Reda Youssef, P.E.  
Director, Capital Projects



## PAST PERFORMANCE QUESTIONNAIRE

Contractor: **N-Y Associates, Inc.**

The contractor or subcontractor named above, who is doing business (or has done business with your organization in the past, provided your name as a reference for past performance to the USDA Forest Service. The contractor was informed, via a solicitation provision, that by listing you as a reference and requesting your submission of this questionnaire, they are authorizing you to release information to our agency relative to their past performance, whether positive or negative. Responses will be treated as source selection sensitive information.

Please answer the questionnaire, using adjectival ratings provided. Handwritten or electronic responses are acceptable. If you need more space than provided, please attach additional pages. Email, scan or fax the completed questionnaire directly from you to the attention of the Gemaa Pelch: \*Fax: (601)965-1788, \*Email: [gpelch02@fs.fed.us](mailto:gpelch02@fs.fed.us)

Name of Respondent: **Reda Youssef, PE**  
Title: **Director of Capital Projects**  
Agency/Company Name: **Jefferson Parish**  
Telephone Number: **(504) 736-6833**  
Email Address: **ryoussef@jeffparish.net**  
Contract Number/ Project Reference Number: **Various;  
N-Y has worked continuously for Jefferson Parish since 1976.**  
Description of Project: **Design of Roadway, Bridge, Water, Sewerage and Drainage Improvements**  
Project Location: **Jefferson Parish, LA**  
Total Contract Value: **Numerous Contracts: +/- \$100,000 to \$2,500,000 each**  
Period of Performance: **2006-2018**

### Explanation of Adjectival Ratings:

<b>E</b>	EXCEPTIONAL: Performance met contractual requirements and substantially exceeded most (requirements). Any problems encountered resulted in corrective actions taken by the contractor which exceeded expectations and were highly effective. Contractor consistently performed at the highest level.
<b>V</b>	VERY GOOD: Performance met contractual requirements and exceeded some (requirements). Any problems encountered resulted in corrective actions taken by the contractor which were effective.
<b>S</b>	SATISFACTORY: Performance met all minimum requirements. Any problems encountered resulted in corrective actions taken by the contractor which appear or were satisfactory.
<b>M</b>	MARGINAL: Contractor met contract requirements with minor government agency resource oversight or assistance. Performance appeared weak in meeting all minimum contractual requirements.
<b>P</b>	POOR: Performance may not have met minimum contractual requirements or nonconformance jeopardized the achievement of contract requirements. Performance necessitated major government agency oversight or assistance.
<b>N</b>	NEUTRAL: Relevant past performance does not exist or information is not available. Offeror is not evaluated favorably or unfavorably.

## PAST PERFORMANCE QUESTIONNAIRE

Contractor: N-Y Associates, Inc.

Using the codes above, circle the appropriate letter for each item on the questionnaire and record any comments.

### QUALITY OF WORKMANSHIP

- Rate the contractor's compliance with contract terms and conditions and statement of work.

*Comments:*

<input checked="" type="radio"/> E	<input type="radio"/> V	<input type="radio"/> S	<input type="radio"/> M	<input type="radio"/> P	<input type="radio"/> N
------------------------------------	-------------------------	-------------------------	-------------------------	-------------------------	-------------------------

- Did the contractor provide adequate, competent and qualified management, key personnel and technical personnel capable of meeting contract requirements throughout the performance period of the contract?

*Comments:*

<input checked="" type="radio"/> E	<input type="radio"/> V	<input type="radio"/> S	<input type="radio"/> M	<input type="radio"/> P	<input type="radio"/> N
------------------------------------	-------------------------	-------------------------	-------------------------	-------------------------	-------------------------

- How well did the contractor work independent of agency guidance, oversight and assistance?

*Comments:*

<input type="radio"/> E	<input checked="" type="radio"/> V	<input type="radio"/> S	<input type="radio"/> M	<input type="radio"/> P	<input type="radio"/> N
-------------------------	------------------------------------	-------------------------	-------------------------	-------------------------	-------------------------

- How effective was the contractor in meeting Cost/Price performance targets and controlling costs (i.e. changes, etc.)? Did they demonstrate reasonableness in modifications scope and costs?

*Comments:*

- Were subcontractors/tradesmen adequately managed and coordinated? Explain any subcontracting issues (positive or negative) that impacted the performance of your contract(s).

*Comments:*

<input checked="" type="radio"/> E	<input type="radio"/> V	<input type="radio"/> S	<input type="radio"/> M	<input type="radio"/> P	<input type="radio"/> N
------------------------------------	-------------------------	-------------------------	-------------------------	-------------------------	-------------------------

### CUSTOMER SATISFACTION

- How reasonable and cooperative was the contractor during performance?

*Comments:*

<input checked="" type="radio"/> E	<input type="radio"/> V	<input type="radio"/> S	<input type="radio"/> M	<input type="radio"/> P	<input type="radio"/> N
------------------------------------	-------------------------	-------------------------	-------------------------	-------------------------	-------------------------

- How committed was the contractor to customer satisfaction?

*Comments:*

<input checked="" type="radio"/> E	<input type="radio"/> V	<input type="radio"/> S	<input type="radio"/> M	<input type="radio"/> P	<input type="radio"/> N
------------------------------------	-------------------------	-------------------------	-------------------------	-------------------------	-------------------------

### TIMELINESS OF PERFORMANCE

- How well did the contractor adhere to the agreed-to schedule?

*Comments:*

<input type="radio"/> E	<input checked="" type="radio"/> V	<input type="radio"/> S	<input type="radio"/> M	<input type="radio"/> P	<input type="radio"/> N
-------------------------	------------------------------------	-------------------------	-------------------------	-------------------------	-------------------------



## PAST PERFORMANCE QUESTIONNAIRE

Contractor: N-Y Associates, Inc.

- Did the contractor provide timely notice of delays/schedule revisions?  
What were the causes of any schedule variances?

E	<b>V</b>	S	M	P	N
---	----------	---	---	---	---

Comments:

- Were data, deliverables, and reports submitted on time?

<b>E</b>	V	S	M	P	N
----------	---	---	---	---	---

Comments:

### SAFETY RECORD

- How effective was the contractor's safety program to ensure compliance with federal, state and local regulations?

E	V	S	M	P	N
---	---	---	---	---	---

Comments: **NOT APPLICABLE**

- Did the contractor implement and follow their safety plan?

E	V	S	M	P	N
---	---	---	---	---	---

Comments: **NOT APPLICABLE**

- Did they run a "safe jobsite"?

E	V	S	M	P	N
---	---	---	---	---	---

Comments: **NOT APPLICABLE**

### OVERALL PAST PERFORMANCE

- What is your overall rating of the contractor's performance?

<b>E</b>	V	S	M	P	N
----------	---	---	---	---	---

Comments:

- What are the contractor's strengths? **Knowledgeable & Follows up to complete assignments**

- Did you recognize any weaknesses of the contractor during performance? **NO**

- Given the choice, would you work with this contractor again? Why or why not?

<b>YES</b>	NO
------------	----

**Because of pleasant experience with his past performance in many projects.**

*Thank you for your assistance.*

## PAST PERFORMANCE QUESTIONNAIRE

Contractor: **N-Y Associates, Inc.**

The contractor or subcontractor named above, who is doing business (or has done business with your organization in the past, provided your name as a reference for past performance to the USDA Forest Service. The contractor was informed, via a solicitation provision, that by listing you as a reference and requesting your submission of this questionnaire, they are authorizing you to release information to our agency relative to their past performance, whether positive or negative. Responses will be treated as source selection sensitive information.

Please answer the questionnaire, using adjectival ratings provided. Handwritten or electronic responses are acceptable. If you need more space than provided, please attach additional pages. Email, scan or fax the completed questionnaire directly from you to the attention of the Gemaa Pelch: \*Fax: (601)965-1788, \*Email: [gpelch02@fs.fed.us](mailto:gpelch02@fs.fed.us)

Name of Respondent: **Nick Sims**  
Title: **Project Manager, Planning and Project Management**  
Agency/Company Name: **U.S. Army Corps of Engineers, New Orleans District**  
Telephone Number: **(225) 603-3753**  
Email Address: **christopher.n.sims@usace.army.mil**  
Contract Number/  
Project Reference Number: **W912P8-16-D-0006**  
Description of Project: **IDIQ for General Engineering Services**  
Project Location: **New Orleans District and Vicinity**  
Total Contract Value: **\$15 million maximum (+/- \$2.9 million to date)**  
Period of Performance: **June 2016 to June 2021**

### Explanation of Adjectival Ratings:

<b>E</b>	<b>EXCEPTIONAL:</b> Performance met contractual requirements and substantially exceeded most (requirements). Any problems encountered resulted in corrective actions taken by the contractor which exceeded expectations and were highly effective. Contractor consistently performed at the highest level.
<b>V</b>	<b>VERY GOOD:</b> Performance met contractual requirements and exceeded some (requirements). Any problems encountered resulted in corrective actions taken by the contractor which were effective.
<b>S</b>	<b>SATISFACTORY:</b> Performance met all minimum requirements. Any problems encountered resulted in corrective actions taken by the contractor which appear or were satisfactory.
<b>M</b>	<b>MARGINAL:</b> Contractor met contract requirements with minor government agency resource oversight or assistance. Performance appeared weak in meeting all minimum contractual requirements.
<b>P</b>	<b>POOR:</b> Performance may not have met minimum contractual requirements or nonconformance jeopardized the achievement of contract requirements. Performance necessitated major government agency oversight or assistance.
<b>N</b>	<b>NEUTRAL:</b> Relevant past performance does not exist or information is not available. Offeror is not evaluated favorably or unfavorably.



## PAST PERFORMANCE QUESTIONNAIRE

Contractor: N-Y Associates, Inc.

Using the codes above, circle the appropriate letter for each item on the questionnaire and record any comments.

### QUALITY OF WORKMANSHIP

- Rate the contractor's compliance with contract terms and conditions and statement of work.

E	V	S	M	P	N
---	---	---	---	---	---

*Comments:*

- Did the contractor provide adequate, competent and qualified management, key personnel and technical personnel capable of meeting contract requirements throughout the performance period of the contract?

E	V	S	M	P	N
---	---	---	---	---	---

*Comments:* Personnel were very curious and professional

- How well did the contractor work independent of agency guidance, oversight and assistance?

E	V	S	M	P	N
---	---	---	---	---	---

*Comments:* No issues as the contractor completed exactly what was expected

- How effective was the contractor in meeting Cost/Price performance targets and controlling costs (i.e. changes, etc.)? Did they demonstrate reasonableness in modifications scope and costs?

*Comments:* All products were delivered within budget

- Were subcontractors/tradesmen adequately managed and coordinated? Explain any subcontracting issues (positive or negative) that impacted the performance of your contract(s).

E	V	S	M	P	N
---	---	---	---	---	---

*Comments:*

### CUSTOMER SATISFACTION

- How reasonable and cooperative was the contractor during performance?

E	V	S	M	P	N
---	---	---	---	---	---

*Comments:* Very reasonable and professional

- How committed was the contractor to customer satisfaction?

E	V	S	M	P	N
---	---	---	---	---	---

*Comments:*

### TIMELINESS OF PERFORMANCE

- How well did the contractor adhere to the agreed-to schedule?

E	V	S	M	P	N
---	---	---	---	---	---

*Comments:* All products were delivered on schedule

## PAST PERFORMANCE QUESTIONNAIRE

Contractor: N-Y Associates, Inc.

- Did the contractor provide timely notice of delays/schedule revisions?  
What were the causes of any schedule variances?

E	V	S	M
P	N		

Comments:

- Were data, deliverables, and reports submitted on time?

E	V	S	M	P	N
---	---	---	---	---	---

Comments:

### SAFETY RECORD

- How effective was the contractor's safety program to ensure compliance with federal, state and local regulations?

E	V	S	M	P	N
---	---	---	---	---	---

Comments:

- Did the contractor implement and follow their safety plan?

E	V	S	M	P	N
---	---	---	---	---	---

Comments:

- Did they run a "safe jobsite"?

E	V	S	M	P	N
---	---	---	---	---	---

Comments:

### OVERALL PAST PERFORMANCE

- What is your overall rating of the contractor's performance?

E	V	S	M	P	N
---	---	---	---	---	---

Comments:

Quality products were delivered on time and within budget

- What are the contractor's strengths?

Communication and delivery of requested products

- Did you recognize any weaknesses of the contractor during performance?

No weaknesses were recognized

- Given the choice, would you work with this contractor again? Why or why not?

YES	NO
-----	----

**Thank you for your assistance.**

## USACE, NEW ORLEANS DISTRICT RECENT ACASS RATINGS

**Levee Periodic Inspection for Mississippi River West Bank – Below Morganza Levee System in Pointe Coupee, West Baton Rouge, Iberville, New Iberia, Ascension and St. Martin Parishes, LA (2020)**

**Official Comments:** *"The contractor provided an excellent work product. The contractor conducted a thorough inspection of the levee system and delivered high quality report in accordance with levee safety guidelines. The contractor completed all tasks ahead of schedule or within the time allotted. The contractor was able to manage their own work and required very little guidance."*

**RATING: EXCEPTIONAL**

**Levee Periodic Inspection for Non-Federal Levee Systems in Terrebonne Parish, LA (2019)**

**Official Comments:** *"All work has been completed on schedule, at no additional cost and without any issues or problems." "Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future."*

**RATING: EXCEPTIONAL**

**Levee Periodic Inspection for Caernarvon to Phoenix Polder Levee System in Plaquemines Parish, LA (2018)**

**Official Comments:** *"The contractor delivered excellent work product that is a valuable asset to the MVN Levee Safety Program." "Completed all tasks ahead of schedule or within the time allotted; Completed all tasks within awarded budget without the need to renegotiate." "Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future."*

**RATING: EXCEPTIONAL**

**Levee Periodic Inspection for Angola Ring Levee and Simmesport Ring Levee in West Feliciana Parish, LA (2018)**

**Official Comments:** *"The contractor delivered excellent work product that is a valuable asset to the MVN Levee Safety Program." "Completed all tasks ahead of schedule or within the time allotted; Completed all tasks within awarded budget without the need to renegotiate." "Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future."*

**RATING: VERY GOOD**

**Project Management Support for Flood Risk Management Risk Consequence Data in the MVN Area of Responsibility (2018)**

**Official Comments:** *"The contractor maintained and managed the project very well, no issues." "The contractor met the standards of the contract, performed tasks according to their schedule and did not run over the budget." "Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future."*

**RATING: VERY GOOD**

**100% Final Design for Manchac Levee Enlargement in East Baton Rouge and Iberville Parishes, LA (2013)**

**Official Comments:** *"The A/E was easy to work with and the products were delivered on time." "N-Y Associates did an excellent job in preparing the P&S."*

**RATING: EXCEPTIONAL**

**Engineering during Construction for Manchac Levee Enlargement in East Baton Rouge and Iberville Parishes, LA (2015)**

**Official Comments:** *"Excellent quality of work." "Excellent and timely management." "Excellent work product and cost control." "Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future."*

**RATING: EXCEPTIONAL**

For more information,  
[www.mottmac.com](http://www.mottmac.com)

Opening opportunities with  
connected thinking.