

BKI



PREPARED BY

BKI

IN ASSOCIATION WITH

Rostan Solutions, LLC

MSMM Engineering, Inc

Hartman Engineering, Inc

Creative Engineering Group, Inc

Scairono Martinez Architects

Riverlands Surveying Company

ST. JOHN THE BAPTIST PARISH SHERIFF'S OFFICE

Hurricane Ida Disaster Recovery Damage Assessment and A/E Services RFQ 2021.1

September 27, 2021 9:45am

ADDRESSED TO



Emergency Operations Center
1801 W. Airline Highway
Laplace, La 70068

ST. JOHN THE BAPTIST PARISH SHERIFF'S OFFICE

Hurricane Ida Disaster Recovery Damage Assessments and A/E Services RFP 2021.1

CONTACT US

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New Orleans, LA

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September 27, 2021

Jeffrey Clement
Chief Civil Deputy - SJBP Sheriff's Office
1801 W. Airline Highway
Laplace, LA 70068

Re: Hurricane Ida Disaster Recovery Damage Assessment and A/E Services

Deputy Clement,

Burk-Kleinpeter, Inc. (BKI), along with our team members, are pleased to submit our Statement of Qualifications for the above-mentioned project. Hurricane Ida was a devastatingly catastrophic event that has impacted every aspect of the lives of the citizens of St. John the Baptist Parish. We understand that bringing the Parish back better than before the storm is critical to our local economy and have a personal investment in seeing it through.

As an operation centered in Southeast Louisiana, BKI is intimately familiar with the unique challenges posed to municipalities by natural disasters such as Hurricane Ida. We are one of the oldest and most trusted firms in the region, and over the past 20 years have developed the unique ability to quickly help parishes and other municipalities assess damage, secure assistance from FEMA, and execute the restoration process. Not only have we helped St. John the Baptist Parish in the past, but we have also helped many other municipalities build back after suffering similar circumstances, executing nearly \$2.5B worth of projects of this nature in our history. We have assembled a great local team that has been selected to uniquely address each aspect of the solicitation individually. This team includes a great deal of experience coordinating with FEMA and GOHSEP and have strived to maximize the extent of funding under the program, which will be essential to St. John the Baptist's recovery process.

Our team is made up of a multi-disciplinary group of professionals with local institutional knowledge who possess the required experience and qualifications necessary for this program. Each of our key staff members have a minimum of 16 years of experience in their roles identified for this program. In addition to the key staff members, a diverse group of support staff will be dedicated to this program.

Our team has successfully executed over 200 projects of different Categories of Work (Cat A-G) for all Disasters in FEMA Regions I, III, and IV. Extensive knowledge and experience in FEMA Public Assistance Program includes: All Emergency & Permanent Work Categories; PA Alternate Procedures 428 Program; Specialized, Expedited, Capped, Alternate Projects; Cost Estimating (CEF) and Cost Validation; Substantial Damage, 50% Rule Evaluations, Repair & Replacement Estimates; Environmental and Historic Preservation Compliance; Hazard Mitigation; Insurance; Eligibility determinations for the Applicant, Facility, Work, and Cost; the Stafford Act, 44 CFR, PAAP, PAPPG, and PA Policy interpretation to recommend solutions across the recovery area, PDA and IA Site Inspections. Developed FEMA PWs, preliminary design plans, final plans, cost estimates, specifications, and bid documents for use in the reconstruction of damaged roadways, curbs, utilities, driveways,

BKI has a long history of providing engineering services on water, wastewater, drainage, and roadway infrastructure projects in St. John the Baptist Parish and is currently working with the Parish on several projects. We look forward to continuing our relationship with the Parish.

It is our personal commitment to you to devote substantially all our resources to executing all the steps necessary to restore St. John the Baptist Parish in this difficult time. We are poised and ready to quickly assess the damages to the water, wastewater, drainage, and roadway infrastructure and to provide recommendations for reconstruction and repairs to these facilities. Our team is committed to providing specialized, professional services as required under this program. We have chosen our team based on proven technical and managerial track records.

In summary, BKI has a strong history of program management, assessment, and implementation of similar projects based on our experience with 8 different parishes and municipalities in similar circumstances, including St. John the Baptist. Our team members are local, understand the challenges you have encountered and have been selected based on their experience dealing with these situations. BKI is a local, well-established firm that is invested in the success of the people of your parish. We submit this statement of our qualifications to St. John the Baptist Parish Sheriff's Office and are confident we have the ability, training, and expertise necessary to aid in your full recovery from infrastructure damages associated with Hurricane Ida.



Henry M. Picard III, PE, PLS
Senior Vice President

EXECUTIVE SUMMARY

PRIME CONSULTANT

NEW ORLEANS

METAIRIE

MANDEVILLE

SHREVEPORT

TUSCALOOSA



FIRM HISTORY AND CAPACITY

BKI History

Burk-Kleinpeter, Inc., (BKI), founded in 1910 as a small architectural practice (William R. Burk, Architect), has become one of the leading engineering and planning firms operating in the southeast region. The firm's engineering practice has consistently ranked among the top 20 firms in the southern states, and has been included regularly in the Top 500 Design Firms in the United States by the Engineering News Record. This is a major accomplishment for a privately owned, New Orleans based firm.

In addition, BKI has been ranked 10th in South Central Construction's South Central Top 80 Designers. BKI has also received award recognitions from AEGIS, City of Kenner, State of Louisiana, Ports Association of Louisiana, and the American Planning Association of Louisiana for projects that we have prepared for our clients.

BKI's stability and depth of experience has provided numerous state and local entities with consulting services for the successful completion of a wide range of projects. Our completed and ongoing projects total of over \$500 million. BKI's expertise includes all elements of project implementation from pre-design through final acceptance of constructed projects. Our experience will ensure safe and sustainable repairs, restoration and new construction that will help improve the quality of life for residents and businesses who depend on the services and leadership provided by the St. John the Baptist Parish Sheriff's Office and its departments.

Comprehensive Services

For over a century, BKI has remained dedicated to providing the highest standard of consulting service through creative planning, administration, design, and state-of-the-art technology. With a multi-disciplinary platform of experience and abilities, BKI integrates proven best practices from all of our disciplines with a keen eye to meeting clients' long-range needs and current financial constraints. BKI's team of engineers, planners, and design technicians provides a complete package of services to municipalities, public and private development entities, other consultants, and state and federal agencies. With a broad and comprehensive team under one roof, BKI is able to streamline communication, expedite schedules, and reduce costs, while still providing unparalleled end-to-end service and support.

Responsiveness

Our firm's location in the heart of Mid-City allows BKI to respond quickly and provide time sensitive support, including items that arise on short notice, for any disaster recovery needs. In our work on a vast range of projects, we developed an understanding of the need for a prompt response in order to address any needs or emergencies that may occur. Our comprehensive approach to project development provides our clients with solutions sensitive to the needs of St. John the Baptist Parish Sheriff's Office and the communities they serve. With BKI's staff located in and around the Greater New Orleans area, we have a deep knowledge of and are sensitive to local needs which translates to an efficient workflow throughout any project. BKI's staff consists of 63 employees; more than half of those employees work out of our New Orleans office. Any of these employees, or those in our branch offices in Louisiana and Alabama, will be made available to assist if necessary.

Based on BKI's well-established record of providing high quality services within set timeframes, we are confident that we possess the necessary manpower to complete project tasks without compromising standards. Because BKI has an experienced team, engineers, we can accommodate any field decisions or plan changes quickly and efficiently.

Capacity

The BKI Team's current workload and future project schedules are such that we can firmly commit our technical and support staff to meeting the requirements of this contract and fulfilling its assignments. BKI is committed to providing specialized, professional services as required under this contract. Throughout our history we have worked in close coordination with municipal, state, and federal project staff. We have chosen our team based on proven technical and managerial track records. We are committed to providing timely performance of work to our clients and can afford to give individualized attention to keep you abreast of each phase of the project. Since BKI is centrally located in the City of New Orleans, we are highly accessible and can provide support for infrastructure assessments, design, and construction projects on short notice (24 hours) or within an agreed upon time frame with the St. John the Baptist Parish Sheriff's Office staff in emergency situations. BKI's past performance attests to its capacity to handle a reasonably large number of projects concurrently without any reduction in design quality.

ABOUT US

BKI has grown into one of the region's most vibrant multi-disciplinary corporations. Over the past 110 years, this growth and diversification has proven BKI's commitment to sustained service in our communities, the stability of its long-serving staff, and the strength of its core principles of quality and dependability. Those accomplishments have allowed us to achieve frequent recognition as one of the top firms in the nation.

WHAT ARE OUR GOALS?

- To exceed the expectations of clients
- To uphold our reputation for quality and dependability
- To support St. John the Baptist Parish Sheriff's Office in their speedy recovery from Hurricane Ida
- To provide sound, financially feasible recommendations from a multi-disciplinary team of engineering experts

DISASTER RECOVERY SERVICES AND SITE ASSESSMENTS



1.0 Introduction

BKI, along with our team members, are pleased to submit our Statement of Qualifications for the above-mentioned project. As an operation centered in Southeast Louisiana, BKI is intimately familiar with the unique challenges posed to municipalities by natural disasters such as Hurricane Ida. Our team is poised and ready to quickly assess the damages to the water, wastewater, drainage, and roadway infrastructure and to provide recommendations for reconstruction and repairs to these facilities. A summary of previous services provided by our team shows a wide range of disaster recovery and damage assessment services including industrial facilities, port facilities, shipyards, office buildings, warehouses, production shops, specialty use buildings, primary and secondary electrical distribution systems, water systems, wastewater systems, stormwater systems, roads and bridges, public buildings and contents, parks, recreational and other public and private facilities. The recovery services were provided to public and private clients along the Gulf Coast following Hurricanes Katrina and Rita in 2005, Hurricane Gustav in 2009, and current damage assessments for a number of clients as a result of Hurricane Ida.

In addition to the public infrastructure damage assessments, our staff provided all the necessary FEMA coordination including, but not limited to, preparation of project worksheets, review of project worksheets, grant coordination and preparation, development of construction documents, advertising and

bidding, construction administration, resident inspection, and project closeout. In addition to BKI, our team members include local firms to help support the massive undertaking that is required to work through the FEMA Public Assistance Program and other potential grant programs. The team members include:

- MSMM Engineering – Civil, Structural, Wastewater Systems, Water Systems, Drainage and Roadway Infrastructure (**Certified as a Disadvantage Business Enterprise**)
- Hartman Engineering – Civil, Structural, Wastewater Systems, Water Systems, Drainage and Roadway Infrastructure
- Creative Engineering Group – Electrical Engineering Support
- Scairono Martinez Architects – Architectural Support
- Riverlands Surveying – Surveying Support
- Rostan Solutions – FEMA Compliance, Documentation, Records Keeping, Grant Management Support

All these firms have a previous history of working with BKI. Additional information pertaining to each of the firms are provided as part of this request for qualifications submittal.

Hurricane Ida Disaster Recovery Damage Assessment and A/E Services

2.0 Qualifications and Experience

2.1 Qualifications of Key Staff to Perform work

Our team is made up of a multi-disciplinary group of professionals with the required experience and qualifications necessary for this program. Details of our personnel qualifications are provided in the detailed resumes provided in this response. The roles of these individuals are illustrated on the organization chart provided. The Minimum Personnel Requirements are met by the following staff:

1. At least one professional civil engineer registered in the State of LA shall have a minimum of 10 years experience in Hurricane Disaster Recovery A/E Services and Damage Assessment:

- *Michael D. Chopin, PE: Burk-Kleinpeter, Inc.*
- *Henry M. Picard, III, PE, PLS: Burk-Kleinpeter, Inc.*
- *Rene A. Chopin, III, PE, SECB: Burk-Kleinpeter, Inc.*
- *Manish Mardia, PE: MSMM Engineering, LLC*

2. At least one professional electrical engineer registered in the State of LA shall have a minimum of 10 years of experience in working on public infrastructure:

- *Ray Nolan, PE: Creative Engineering Group, LLC*

3. At least one professional land surveyor registered in the State of LA shall have a minimum of 10 years in surveying public infrastructure and subsurfaces utility engineering:

- *Stephen P. Flynn, PLS: Riverlands Surveying Company, LLC*

4. At least one licensed professional architect shall have a minimum of 10 years experience in public building and facilities infrastructure:

- *Barry Scairono: Scairono Martinez Architects*

5. Proposed personnel shall have the ability to prepare damage assessments and FEMA project worksheets related to public infrastructure.

- *Timothy J. Koenig, PE: Burk-Kleinpeter, Inc.*
- *Manish Mardia, PE: MSMM Engineering, LLC*
- *Kyle Jones, CEM: Rostan Solutions, LLC*

6. Proposed personnel shall have the ability to perform detailed cost estimating related to damage assessment, mitigation, resilience, and flood proofing for public infrastructure.

- *Michael D. Chopin, PE: Burk-Kleinpeter, Inc.*
- *Henry M. Picard, III, PE, PLS: Burk-Kleinpeter, Inc.*
- *Rene A. Chopin, III, PE, SECB: Burk-Kleinpeter, Inc.*
- *David E. Boyd, PE: Burk-Kleinpeter, Inc.*
- *Timothy J. Koenig, PE: Burk-Kleinpeter, Inc.*
- *Farhad H. "Fred" Mogharrebi: Burk-Kleinpeter, Inc.*
- *Daniel D. Marsalone, PE: Burk-Kleinpeter, Inc.*
- *Timothy J. Koenig, PE: Burk-Kleinpeter, Inc.*
- *J. Bart Mullis, PE, LEED AP: Burk-Kleinpeter, Inc.*
- *Kyle Jones, CEM: Rostan Solutions, LLC*
- *Manish Mardia, PE: MSMM Engineering, LLC*
- *Jim Wilson, PE: MSMM Engineering, LLC*
- *Scott Chehardy, PE: MSMM Engineering, LLC*
- *Jared B. Monceaux, PE: Hartman Engineering, Inc.*
- *Sushil K. Jain, PE: Hartman Engineering, Inc.*
- *Ray Nolan, PE: Creative Engineering Group, LLC*
- *Barry Scairono: Scairono Martinez Architects*

Further information regarding the key personnel to be assigned to this program is presented below:

Program Manager, Mr. Tim Koenig, PE (BKI) will be the main point of contact for St. John the Baptist Parish Sheriff's Office on this project and will manage the team and all aspects of the project. Mr. Koenig has more than sixteen (16) years of experience in both FEMA funded recovery projects and other grant projects because of the various recovery efforts undertaken in the greater New Orleans metropolitan area. His knowledge and experience with FEMA's public assistance program including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, FEMA 322 Public Assistance Guide, and Code of Federal Regulations 44.13.36 is extensive. He has personally performed damage assessments immediately following both Hurricanes Katrina and Gustav. In addition, he has managed other consultant teams regarding damage assessments. His experience includes preparing reimbursement requests to GOHSEP and preparing multiple cost and procurement analysis as requested by GOHSEP in order to maintain funding. Part of his role as a Program Manager for the Port of New Orleans' FEMA recovery was to prepare and submit quarterly reports and project worksheet extension requests for both Hurricanes Katrina and Gustav (including daily use of the Louisiana Public Assistance website. Relevant project experience includes FEMA Program Management for the Port of New Orleans and damage assessments and recovery plans for Plaquemines Parish, the Orleans Levee District, and the St. Bernard Port, Harbor and Terminal District.

Engineering Manager, Mr. Manish Mardia, PE (MSMM) will lead the multidiscipline engineering staff assigned to this project. Mr. Mardia has more than 25 years of engineering

Hurricane Ida Disaster Recovery Damage Assessment and A/E Services

experience. His expertise includes design, construction and management of municipal wastewater treatment facilities, stormwater infrastructure, and roadway infrastructure. In addition to his engineering capabilities, Mr. Mardia has post-emergency damage restoration work (FEMA, GOHSEP/LRA, HUD/CDBG). Under Mr. Mardia's direction, the multidiscipline staff will perform damage assessments, detailed cost estimating, mitigation, resilience, and flood proofing recommendations to prevent / reduce future damages to the Parish's infrastructure.

FEMA Compliance and Documentation Manager, Mr. Kyle Jones (Rostan) will lead the complex documentation and record requirements for FEMA reimbursement for all relevant public assistance categories. In addition, he will oversee any potential grant applications that the Parish may be eligible for as part of their recovery efforts. Mr. Jones has nearly two decades of hands-on experience in managing Public Assistance Programs, HMGP/HMA, and major federal disaster declarations, and incorporating National Incident Management System components on behalf of clients. He is a certified Emergency Manager with a tenured background in emergency management, public assistance, and federal cost recovery programs who specializes in maximizing funding sources for clients and applying the federal regulations and/or policies correctly to projects. This experience includes extensive programmatic knowledge of the 404 and 406 mitigation programs. He has personally been involved in over \$2 billion in Public Assistance Programs on behalf of his clients since 2014.

2.1 Experience in Performing Like or Comparable Work

In order to provide St. John the Baptist Parish Sheriff's Office insight to the team's capabilities, we have gathered several relevant project experiences. The details of these projects can be found under each of the individual firm project experience sheets provided in this response. This experience covers from the initial scoping meetings with FEMA through the closeout and subsequent appeals for each of the project worksheets. It should be noted that our team has provided FEMA Public Assistance Program services to numerous clients over the last 20 years totaling over \$2.5 billion in funding.

BKI has a long history of providing engineering services on water, wastewater, drainage and roadway infrastructure in St. John the Baptist Parish. Recent examples of this experience include the Raw Water Intake at the Lions Water Plant, Electrical Room Modifications at the Lions Water Treatment Plant, River Forest Drainage Improvements, the West Shore Hurricane Protection Project, Telemetry, wastewater lift stations, Peavache Boat Launch repairs, River Road WWTP SCADA and controls, and the Marathon Access Roads.

3.0 Past Performance

3.1 Quality of Work and Special Capabilities to Accomplish Work

Our team has a well-established record of providing high quality services within set timeframes. As shown in this response, our team has delivered FEMA Public Assistance Program for a multitude of clients which have met or exceeded the complex requirements of the program and maximized the extent of funding available under the program.

What separates our team experience from others is the depth of the services that we have provided under FEMA's Public Assistance Program. Beyond our experience in delivering Hurricane Disaster Recovery and Damage Assessments for infrastructure projects, our team has strived to maximize funding sources through both the appeals process and other programs such as FEMA's 404 and 406 Mitigation Programs, FEMA's Hazard Mitigation Grant Program, FEMA's Hazard Mitigation Assistance, HUD's Community Block Grants for Disaster Recovery, and other similar grant programs for recovery efforts.

3.3 References

References for each of the example projects are provided on the attached project sheets for each of the team members. Please feel free to reach out to any of them.

4.0 Understanding of Project

BKI has reviewed the Scope of Work that was attached to the Request for Qualifications as is comfortable with all the requirements. BKI has assembled a team of subconsultants that can meet all the needs the St John the Baptist Parish Sherriff's Office requires.

BKI and our team have performed detailed hurricane damage assessment inspections for many agencies and municipalities. Some of those entities have included City of Gretna, Port of New Orleans, Northrop-Grumman Shipbuilding Services, Orleans Levee District, East Jefferson Levee District, and Lake Borgne Basin Levee District. We have coordinated with FEMA and GOHSEP in the preparation of Project Worksheets.

The Project Team has worked with our clients to harden their facilities to wind and driven rain. The services provided included the preparation of plans and specifications for the bidding of construction documents. The Project Team has assisted our

Hurricane Ida Disaster Recovery Damage Assessment and A/E Services

clients in the bidding of the approved projects, construction administration, resident inspections, and coordination of Project Worksheets with FEMA and GOHSEP through project closeout.

The Project Team has performed Program Management for the Hurricane Katrina Damages for the Sewerage and Water Board of New Orleans with close coordination of FEMA and GOHSEP. Services included the scheduling of projects, pre-construction meetings, requests for information review, change order requests, assist in resolving field questions, provide resident inspectors, preparation of daily inspection reports, review Critical Path Method schedules, review shop drawings, review work and materials for acceptance or rejection, review and process contractor pay applications, perform punch list inspections, recommend final acceptance, transfer construction documentation including Operations and Maintenance Manuals to the client, and attend board, council, and public meetings as required.

5.0 Agency Experience

5.1 Coordination and Cooperation with Parish and Others

Coordination and Cooperation with the Parish, FEMA, and other agencies that require input in the Public Assistance Program is crucial in the success of the program. Coordination begins at the initial scoping meeting and continues throughout the various steps of the program until the close out of the various project worksheets is complete. This coordination includes meeting with the various departments/stakeholders for each of the facilities, other Parish officials, FEMA, GOSHEP, and any other potential agency (US Corps of Engineers, DEQ, etc.) that may have input on the various projects. Our team and its successes on the example projects provide in this response are a testament to our capability to provide this necessary coordination.

5.2 Experience in Sensitive Environments

Our team is well versed in the types of environments encountered after major storm events such as Hurricane Ida. Furthermore, our familiarity with St. John the Baptist's infrastructure provide us a well-rounded understanding of the practical challenges that will be encountered. We understand all the hazardous conditions that may be present in these situations, drawn from our vast experience working in various wastewater sites. The safety of our staff and the parish representatives is paramount. All team members are well versed in all necessary safety requirements which will be strictly adhered to. In addition, all staff members will undergo safety training conducted by our safety manager at the project onset.

6.0 Current Work Load

6.1 Capacity to Successfully Manage Parish Requests

Our team's current workload and future project schedules are such that we can firmly commit our technical and support staff to meeting the requirements of this contract and fulfilling its assignments. Our team is committed to providing specialized, professional services as required under this contract. Throughout our history we have worked in close coordination with municipal, state, and federal project staff. We have chosen our team based on proven technical and managerial track records. We are committed to providing timely performance of work to our clients and can afford to give individualized attention to keeping you abreast of each phase of the project. Our team's past performance attests to its capacity to handle a reasonably large number of projects concurrently without any reduction in quality or the management of any specific Parish requests that are a part of this contract.

6.2 Equipment Availability and Dedication

Our team has all the necessary equipment available and is able to dedicate it to this project.

6.3 Number and size of Projects Currently Under Contract with St. John the Baptist Parish

Project	Contract	Remaining
Lion's Water Plant Intake	\$160,377.74	\$4,437.43
Lion's WTP Electrical Building	\$158,857.00	\$142,552

PROJECT TEAM

EXPERIENCE AND EXPERTISE

PRIME CONSULTANT

NEW ORLEANS

METAIRIE

MANDEVILLE

SHREVEPORT

TUSCALOOSA

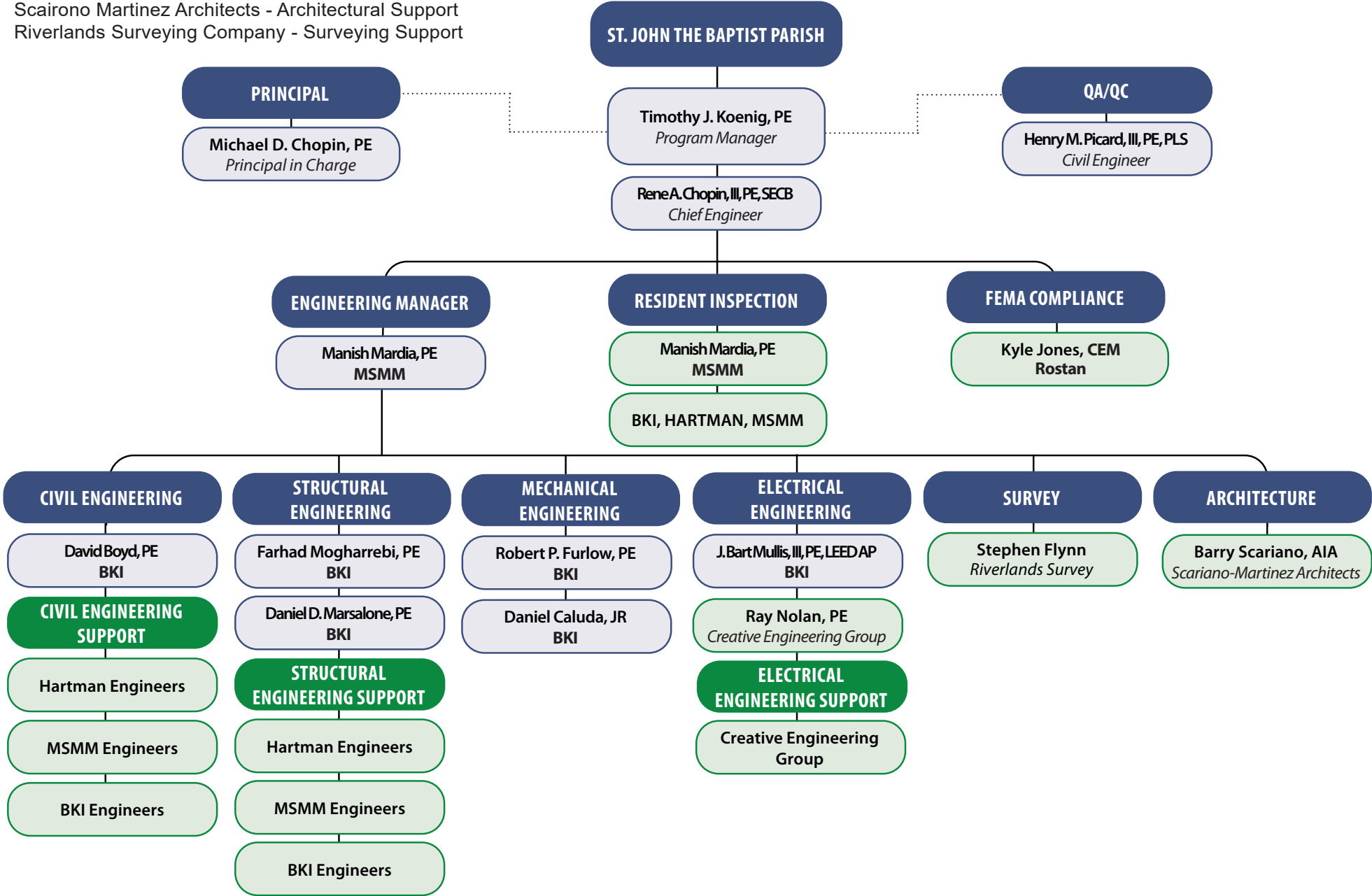


TEAM MEMBERS



Subconsultants

- Rostan Solutions, LLC - FEMA Compliance & Document Control
- MSMM Engineering, Inc. - Engineering Management & Engineering Support
- Hartman Engineering, Inc. - Engineering Support
- Creative Engineering Group, Inc. - Electrical Engineering Support
- Scairono Martinez Architects - Architectural Support
- Riverlands Surveying Company - Surveying Support



RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

NAME Michael D. Chopin, PE	ROLE IN THIS CONTRACT Principal / QA/QC	YEARS EXPERIENCE a. TOTAL 30	b. WITH CURRENT FIRM 30
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FIRM NAME AND LOCATION (city & state):**BK| BURK-KLEINPETER, INC.****EDUCATION (Degree & Specialization):**

Bachelor of Science / Civil Engineering

CURRENT PROFESSIONAL REGISTRATION (State & Discipline):

Professional Engineer, State of LA No. 26797

OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.):

Mr. Chopin is Principal/President at BK| and is domiciled in Metairie, LA. He is in charge of personnel, including schedules, staff, budgets, technical review, and account management. He has 30 years of professional engineering experience, and has provided professional consulting focused on a wide range of damage assessment, repair/rehabilitation engineering services for natural disaster damaged structures, flood protection and public works projects. He has served as Project Manager or Project Engineer on numerous damage assessment, repair/rehabilitation engineering services projects, drainage studies, hydraulic models and designs, drainage improvements, levees, floodwalls, flood control projects, roadways, and site development. Mr. Chopin is a member of the American Society of Civil Engineers and the Society of American Military Engineers.

RELEVANT PROJECTS

A.	(1) TITLE & LOCATION (City & State): New Orleans Sewerage and Water Board Sewer Repairs Program Management - New Orleans, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable) 2019
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Provided program management and construction management services, including project closeout, to oversee major repairs and replacements at 85 sewer pumping stations in the City of New Orleans damaged by Hurricane Katrina. This project utilized FEMA and HMGP funding.		
B.	(1) TITLE & LOCATION (City & State): Hurricane Damage Assessments & Recovery Plan - Orleans Levee Board - Orleans Parish, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (if applicable) 2008
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Project Manager for preliminary engineering assessments of damage to Levee Board facilities following Hurricane Katrina and Hurricane Rita. Services also included preliminary cost estimates and made recommendations as to repairs to restore their facilities to normal operations. Assessment areas included Lakefront Airport, Southshore and Orleans Marinas, Lakeshore Drive Seawall, and the Franklin Avenue Maintenance Facility.		
C.	(1) TITLE & LOCATION (City & State): Gretna Hurricane Katrina/Rita Assessments Gretna, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2005	CONSTRUCTION (if applicable) 2005
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Provided oversight on preliminary engineering assessments for the significant damage to the City of Gretna and surrounding areas following the back to back storms Hurricanes Katrina and Rita. Services included preliminary damage survey/assessments of the structural, mechanical, and electrical structure for all structures, as well preliminary cost estimates and repair recommendations to restore City facilities and structures to normal conditions.		
D.	(1) TITLE & LOCATION (City & State): West Shore Levees and Floodwalls St. Charles, St. John the Baptist, and St. James Parishes, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Provided QA/QC oversight for new multi-parish hurricane protection levee project extending from St. Charles Parish to Ascension Parish that included a feasibility study and a draft environmental impact statement to evaluate several alternate alignments and pump station locations for the proposed levee system.		
E.	(1) TITLE & LOCATION (City & State): Westbank Street Repairs Jefferson Parish, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) 2016
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Provided project oversight for a streets improvement program on the Westbank of Jefferson Parish. BK was a member of the project management team working closely with Jefferson Parish in administering the program in accordance with FEMA Guidelines. BK role included developing scopes, budgets, schedules as well as design oversight, periodic site visits during construction, preparing pay estimates, document changes orders, and coordination with FEMA.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

NAME Henry M. Picard, III, PE, PLS	ROLE IN THIS CONTRACT Regional Manager/ QA/QC	YEARS EXPERIENCE a. TOTAL 40 b. WITH CURRENT FIRM 31
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FIRM NAME AND LOCATION (city & state):

BKI BURK-KLEINPETER, INC.

NEW ORLEANS, LA

EDUCATION (Degree & Specialization):

Bachelor of Science / Civil Engineering

CURRENT PROFESSIONAL REGISTRATION (State & Discipline):

Professional Engineer, State of LA No. 22289

Professional Land Surveyor, State of LA No. 4736

OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.):

Mr. Picard is a Senior Vice President at BKI and is domiciled in Mandeville, LA with 40 years of professional engineering experience. He is in charge of project management, hydraulics, and traffic engineering, with responsibilities including schedules, staff, budgets, technical review and account management. He has provided professional consulting services as Project Manager or Project Engineer on numerous damage assessment, repair/rehabilitation engineering services for natural disaster damaged structures, flood protection and public works projects. Mr. Picard has worked with all levels of government and their respective agencies. Projects have included utilization of FEMA, CDBG, HMGP funding. He holds a Bachelor of Science in Civil Engineering; is a Registered Professional Engineer in Louisiana, Alabama, and Florida; and is a Registered Professional Land Surveyor in Louisiana. He is an active member of the American Society of Civil Engineers and the Society of American Military Engineers. Mr. Picard holds a TWIC card and has escort privileges.

RELEVANT PROJECTS

A.	(1) TITLE & LOCATION (City & State): Port of New Orleans Hurricane Damage Assessments & Recovery Plan <i>Orleans Parish, LA</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. As supervisor ensured accuracy in the preliminary engineering assessments of damage to the Port of New Orleans facilities as a result of Hurricanes Katrina and Rita. Services included survey of structural, mechanical and electrical systems for over 39 structures, cargo marshalling yards and service areas covering 9 linear miles of wharves and ports for damage, fender pile inspection, preliminary cost estimates and recommendations for repairs to restore the Port to normal operations and compliance to newly adopted International Building Codes 2006. Following Hurricane Gustav, BKI was tasked with surveying another 24 existing structures.		
B.	(1) TITLE & LOCATION (City & State): Hurricane Katrina Damage Assessments & Recovery Plan for Northrop Grumman Shipbuilding, Inc - Louisiana and Mississippi Locations	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. As project manager, responsible for ensuring accuracy during the preliminary engineering damage assessments, cost estimates and repair recommendations to repair over 470 structures at Northrop Grumman Ship Systems, Inc. facilities in Pascagoula, MS; Gulfport, MS; and New Orleans, LA following Hurricanes Katrina and Rita. These back-to-back storms resulted in significant damage to their facilities including their electrical distribution systems and equipment. The BKI team met with Northrop Grumman's insurance adjuster and assessor during the damage assessment phase to provide technical knowledge of certain damage components.		
C.	(1) TITLE & LOCATION (City & State): St. Bernard Parish Site Assessment and Disaster Recovery <i>St. Bernard Parish, LA</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2006	CONSTRUCTION (if applicable) 2006
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. As supervisor ensured accuracy for recovery efforts throughout the parish which included restoration of interim housing and temporary facility sites, rehabilitation/modifications to existing pumping and sewer lift stations, restoration of damaged concrete and asphalt roadways. In addition, BKI performed preliminary engineering assessments of Port facility damages as a result of Hurricanes Katrina and Rita. Duties included surveys of structural, mechanical, and electrical systems of all existing structures, prepared preliminary cost estimates, and made repair recommendations to restore the Port to normal operations.		
D.	(1) TITLE & LOCATION (City & State): West Shore Levees and Floodwalls <i>St. Charles, St. John the Baptist, and St. James Parishes, LA</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Project Manager overseeing the new multi-parish hurricane protection levee project extending from St. Charles Parish to Ascension Parish that included a feasibility study and a draft environmental impact statement to evaluate several alternate alignments and pump station locations for the proposed levee system.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

NAME Timothy J. Koenig, PE, Associate		ROLE IN THIS CONTRACT Civil Engineer		YEARS EXPERIENCE a. TOTAL b. WITH CURRENT FIRM 19 17	
FIRM NAME AND LOCATION (city & state): BKI BURK-KLEINPETER, INC. NEW ORLEANS, LA					
EDUCATION (Degree & Specialization): Bachelor of Science / Civil Engineering Bachelor of Science / Microbiology			CURRENT PROFESSIONAL REGISTRATION (State & Discipline): Professional Engineer, State of LA No. 35079		
OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.): Mr. Koenig is an Associate - Civil Engineer at BKI and domiciled in Metairie, LA. Since joining BKI in 2004, Mr. Koenig has provided professional consulting services to public and private clients throughout the Gulf South while upholding BKI's values of integrity, service, and quality. He has provided these services for a wide range of public works projects, serving as Project Manager or Project Engineer. His areas of expertise include rail, structural, and industrial design. As an engineer in Louisiana, many projects have included FEMA, CDBG, HMGP funding and requirements as well as site plan development and project management. Most notably, Mr. Koenig has been an integral part of Hurricane Katrina recovery at the Port of New Orleans.					
RELEVANT PROJECTS					
A.	(1) TITLE & LOCATION (City & State): Port of New Orleans Hurricane Damage Assessments & Recovery Plan Orleans Parish, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2014	CONSTRUCTION (if applicable) 2014	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Provided more than 13,000 hours of service performing preliminary engineering assessments of damage to Port facilities following Hurricane Katrina and Hurricane Rita. Services included survey of structural, mechanical and electrical systems for over 39 structures, cargo marshalling yards, and service areas covering 9 linear miles of wharves and ports for damage, fender pile inspection as well as provided preliminary cost estimates and made recommendations as to repairs to restore these facilities to normal operations.				
B.	(1) TITLE & LOCATION (City & State): West Shore Levees and Floodwalls St. Charles, St. John the Baptist, and St. James Parishes, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) 2016	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Civil Engineer provided preliminary design services for a new multi-parish hurricane protection levee project extending from St. Charles to Ascension Parish. A feasibility study evaluated several alternate alignments and pump station locations for the proposed levee system.				
C.	(1) TITLE & LOCATION (City & State): Plaquemines Parish Katrina Restoration-Venice Harbor Dredging (FEMA) - Venice, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) 2020	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Prepared construction documents consisting of plans and specifications for the dredging of Venice Harbor. The dredging of the harbor was necessitated from the storm surge of Hurricane Katrina washing sediment into the basin causing navigational difficulties. Per government regulations, the project had to meet newer, more stringent code requirements implemented after major disasters. This is one of several projects where BKI has aided Plaquemines Parish in their restoration and rehabilitation efforts following major disasters.				
D.	(1) TITLE & LOCATION (City & State): Master Drainage Plan / Flood Protection Project St. James and Ascension Parishes, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2017	CONSTRUCTION (if applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Provided civil engineering services for St. James and Ascension Parishes flood protection projects which included developing levee alignments, conceptual pump station, floodgate, and pipeline crossing designs, and cost estimates.				
E.	(1) TITLE & LOCATION (City & State): Orleans Levee Board Floodgate Repairs - Orleans Levee Board New Orleans, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2018	CONSTRUCTION (if applicable) 2018	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Prepared construction documents and performed construction administration for a floodgate sandblast, repair and paint project.				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

NAME David E. Boyd, PE		ROLE IN THIS CONTRACT Project Manager/Hydraulic Engineer		YEARS EXPERIENCE a. TOTAL 17 b. WITH CURRENT FIRM 15	
FIRM NAME AND LOCATION (city & state): BKI BURK-KLEINPETER, INC. NEW ORLEANS, LA					
EDUCATION (Degree & Specialization): Bachelor of Science / Civil Engineering			CURRENT PROFESSIONAL REGISTRATION (State & Discipline): Professional Engineer, State of LA No. 35510		
OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.): Mr. Boyd is a Vice President in BKI's Civil Engineering Division. Since 2006, Mr. Boyd has provided BKI's public and private clients with professional consulting engineering services for damage assessment, repair/rehabilitation engineering services for natural disaster damaged structures, flood control and public works projects. Mr. Boyd is proficient in Hydrologic and Hydraulic modeling using HEC-HMS and HEC-RAS as well as SWMM software. He has worked with all levels of government and their respective agencies. Projects have included utilization of FEMA, CDBG, HMGP funding as well as grant/permit writing requirements. Projects of note include several master drainage plans for various parishes; these projects involved analyzing existing conditions and future conditions as well as drainage improvements to alleviate flooding. Mr. Boyd holds a TWIC card and has escort privileges. Mr. Boyd has managed several pump station design projects as well as Building Design-Construction projects for Port of New Orleans (PONO) transit sheds.					
RELEVANT PROJECTS					
A.	(1) TITLE & LOCATION (City & State): Port of New Orleans Hurricane Damage Assessments & Recovery Plan Orleans Parish, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2014	CONSTRUCTION (if applicable) 2014	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Preliminary structural engineering assessments of damage to the Port of New Orleans as a result of Hurricane Katrina and Hurricane Rita. BKI's services included survey of structural, mechanical and electrical systems for over 39 structures, cargo marshalling yards and service areas covering 9 linear miles of wharves and ports for damage, fender pile inspection, preliminary cost estimates and recommendations for repairs to restore the Port to normal operations and compliance to newly adopted International Building Codes 2006. Following Hurricane Gustav, BKI was tasked with surveying another 24 existing structures.				
B.	(1) TITLE & LOCATION (City & State): St. John the Baptist Master Drainage Plan St. John the Baptist Parish, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2012	CONSTRUCTION (if applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Civil Engineer performed hydrologic and hydraulic analyses of an open channel drainage network for the east bank of St. John the Baptist Parish using HEC-HMS and HEC-RAS unsteady flow model, ArcGIS, HEC-GeoHMS, and HEC-GeoRAS to evaluate the existing and proposed drainage network. This project was awarded by the Pontchartrain Levee District.				
C.	(1) TITLE & LOCATION (City & State): Plaquemines Parish Katrina Restoration-Venice Harbor Dredging (FEMA) - Venice, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) 2020	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Prepared construction documents consisting of plans and specifications for the dredging of Venice Harbor. The dredging of the harbor was necessitated from the storm surge of Hurricane Katrina washing sediment into the basin causing navigational difficulties. Per government regulations, the project had to meet newer, more stringent code requirements implemented after major disasters. This is one of several projects where BKI has aided Plaquemines Parish in their restoration and rehabilitation efforts following major disasters.				
D.	(1) TITLE & LOCATION (City & State): West Shore Levees and Floodwalls St. Charles, St. John the Baptist, and St. James Parishes, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. As Cost/Hydraulic Engineer, leveraged MCACES cost estimating software to present to USACE review board. Performed hydrologic and hydraulic analysis using HEC-HMS and HEC-RAS unsteady state model of stormwater runoff. Provided GIS support to USACE personnel. Assembled levee plan/profile/cross-section plans for TSP.				
E.	(1) TITLE & LOCATION (City & State): Gretna Hurricane Katrina/Rita Assessments Gretna, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2005	CONSTRUCTION (if applicable) 2005	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Civil engineer on the BKI team providing expertise for the preliminary engineering assessments of damage to the City following Hurricanes Katrina and Rita which caused significant damage to the infrastructure. Services also included preliminary cost estimates and made recommendations as to repairs to restore City facilities and structures to normal conditions.				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

NAME René A. Chopin, III, PE, SECB		ROLE IN THIS CONTRACT Senior Vice President/Chief Engineer/ Structural Engineer		YEARS EXPERIENCE a. TOTAL b. WITH CURRENT FIRM 33 33	
FIRM NAME AND LOCATION (city & state): BKI BURK-KLEINPETER, INC. NEW ORLEANS, LA					
EDUCATION (Degree & Specialization): Bachelor of Science / Civil Engineering			CURRENT PROFESSIONAL REGISTRATION (State & Discipline): Professional Engineer, State of LA No. 25174		
OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.): Mr. Chopin is a Senior Vice President / Chief Engineer at BKI, in charge of project production, project management, and staff supervision. He has provided professional consulting focused on a wide range of flood protection and transportation designs, serving as Project Manager or Project Engineer on numerous bridge, roadway, dock, wharf, structural, and flood protection projects. He holds a Bachelor of Science in Civil Engineering, and is a Registered Professional Engineer in the States of Louisiana (#25174), Mississippi (#15600), Florida (#56402), Alabama (#37326), and Texas (#87547). Mr. Chopin's projects have garnered awards and commendations from the American Concrete Institute Louisiana Chapter and the National Partnership for Highway Quality.					
RELEVANT PROJECTS					
A.	(1) TITLE & LOCATION (City & State): Port of New Orleans Hurricane Damage Assessments & Recovery Plan Orleans Parish, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2014 2014		
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Supervised preliminary engineering assessments of damage to the Port of New Orleans facilities as a result of Hurricanes Katrina and Rita. Services included survey of structural, mechanical and electrical systems for over 39 structures, cargo marshalling yards and service areas covering 9 linear miles of wharves and ports for damage, fender pile inspection, preliminary cost estimates and recommendations for repairs to restore the Port to normal operations.				
B.	(1) TITLE & LOCATION (City & State): Jefferson Parish Westbank Street Repair Program Management Jefferson Parish, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2016 2016		
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Project Manager for the development of scopes, budgets, schedules, design oversight, periodic site visits during construction, preparing pay estimates, document change orders, and coordination with FEMA. Worked closely with Jefferson Parish in administering the program in accordance with FEMA Guidelines. BKI assisted in direct administrative roles including coordination with FEMA, design consultants, and Jefferson Parish.				
C.	(1) TITLE & LOCATION (City & State): West Shore Enhancements Project St. James Parish, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2020 N/A		
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Principal providing QA/QC for structural design of a floodgate and a 320 CFS pump station at the 310' Blind River Crossing as well as two additional floodgates in separate locations. Included at the Blind River pump station is the design of a 2050 square foot pile support electrical platform that supports auxiliary equipment such as the 1250 KW generator, transformer, generator dock, HVAC systems and scada tower. The platform also supports a 470 Square foot, single story, CMU block electrical and controls room with concrete roof.				
D.	(1) TITLE & LOCATION (City & State): West Shore Levees and Floodwalls St. Charles, St. John the Baptist, and St. James Parishes, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2016 N/A		
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. As Structural Engineer, assessed the feasibility of floodgates and an elevated roadway for a new multi-parish hurricane protection levee project extending from St. Charles to Ascension Parish. A feasibility study evaluated several alternate alignments and pump station locations for the proposed levee system.				
E.	(1) TITLE & LOCATION (City & State): Southeast Louisiana Submerged Roads Program (Paths to Progress) Southeast Louisiana		(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2014 2014		
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. As Project Manager provided oversight in developing the scope of work for the design consultants and negotiated design fees. Reviewed plans prepared by the design consultants, and conducted Plan-in-Hand meetings. Worked closely with the prime consultant in developing schedules for the design deliverables for roadways damaged by Hurricane Katrina.				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

NAME J. Bart Mullis, III, PE, LEED AP - Associate		ROLE IN THIS CONTRACT Electrical Engineer		YEARS EXPERIENCE a. TOTAL b. WITH CURRENT FIRM 43 44	
FIRM NAME AND LOCATION (city & state): BKI BURK-KLEINPETER, INC. NEW ORLEANS, LA					
EDUCATION (Degree & Specialization): Associate Degree / Electrical Engineering			CURRENT PROFESSIONAL REGISTRATION (State & Discipline): Professional Engineer, State of MS No. 10933		
OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.): Mr. Mullis, an Associate - Electrical Engineer, joined BKI in 2008 and has over 40 years of experience in engineering management, project management, engineering, design, servicing, and construction projects including commercial, institutional, industrial, and power generation with six years in nuclear power generation. He has worked as a technician, field and design engineer, and construction supervisor, and has prepared specifications and procedures. Mr. Mullis also has experience with computer-aided design and engineering tasks such as load calculation, systems analysis, spreadsheets, word processors, and CAD systems. He has worked on a broad range of project types and sizes including primary distribution, secondary distribution, medium voltage systems, communications, security systems, data, and fire detection and alarm systems. Mr. Mullis also coordinates and supervises electrical, mechanical, plumbing, civil, fire protection design, and contractors.					
RELEVANT PROJECTS					
A.	(1) TITLE & LOCATION (City & State): St. John River Road WWTP Effluent Pump Station Controls St. John the Baptist Parish, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) 2021	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Lead project design engineer provided electrical design for upgrades to the St. John the Baptist Parish River Road Wastewater Treatment Plant's effluent pump station. Several sections of the motor control center were replaced with freestanding variable frequency starters. New level controls were installed to operate the three existing 75 HP effluent pumps.				
B.	(1) TITLE & LOCATION (City & State): New Orleans Sewerage and Water Board Sewer Repairs Program Management - New Orleans, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable) 2019	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Electrical Engineer provided program management services, including design review, to oversee repairs to and replacements of 85 sewer lift stations in the City of New Orleans damaged by Hurricane Katrina. This project utilized FEMA and HMGP funding.				
C.	(1) TITLE & LOCATION (City & State): St. Charles Westbank Levee St. Charles Parish, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) Ongoing	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Provided electrical design for three new drainage pump stations (a total of 1300 CFS) in the Willowridge Subdivision, the Ellington watershed, and off Magnolia Ridge Road. Pump station design for all three stations included vertical pumps, backup generators, and mechanical bar screen cleaners.				
D.	(1) TITLE & LOCATION (City & State): Drainage Pump Station Certification for USACE and FEMA Orleans and St. Charles Parishes, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2009	CONSTRUCTION (if applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. As Electrical Engineer on this project performed pump station inspections. BKI performed condition assessments for 22 pump stations and one power plant in Orleans Parish, and pump station building assessments and analysis only for 19 pump stations in Orleans and St. Charles Parishes for the US Army Corps of Engineers. BKI also implemented the design quality control plan with an independent technical review team.				
E.	(1) TITLE & LOCATION (City & State): Gretna Emergency Generator at Sewer Lift Station No. 7 Gretna, LA		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2012	CONSTRUCTION (if applicable) 2012	
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Lead electrical engineer and project coordinator for the permanent installation of a 250 kW generator and 600 amp automatic transfer switch to operate the existing pumping station. Due to the close proximity to residential homes and a community park, the generator was specified with a sound attenuated enclosure to reduce noise pollution. The project was funded through the State of Louisiana's Office of Community Development Disaster Recovery Unit.				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

NAME Farhad H. Mogharrebi, PE	ROLE IN THIS CONTRACT Senior Structural Engineer	YEARS EXPERIENCE a. TOTAL 24	b. WITH CURRENT FIRM >1
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FIRM NAME AND LOCATION (city & state):

BK| BURK-KLEINPETER, INC. NEW ORLEANS, LA

EDUCATION (Degree & Specialization): Bachelor of Science / Civil Engineering	CURRENT PROFESSIONAL REGISTRATION (State & Discipline): Professional Engineer, State of LA No. 27984
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OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.):

Sr. Structural Engineer with over 24 years of engineering experience with a focus on USACE flood control projects, water works, pumping stations, port and airport projects as well as other civil/structural projects. Previously worked in a similar capacity with CB&I (formerly Shaw Group) and URS Corporation.

RELEVANT PROJECTS

A.	(1) TITLE & LOCATION (City & State): 25th Street Canal Drainage Improvements Gretna, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022 (Est.)	CONSTRUCTION (if applicable) 2024 (Est.)
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Provided structural design services for over 2000 feet of sheet pile wall which was installed to secure the bank and allow for flap gate installation. In order to manifold the drainage system and force the runoff to the pump station over 5400 feet of new drainage pipe was installed. Green Infrastructure techniques such as Gabion retaining walls, bioswales and riparian plantings were used along the upstream portions of the 25th Street Canal to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.		
B.	(1) TITLE & LOCATION (City & State): Cheniere Water Storage Tank Grand Isle, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022 (Est.)	CONSTRUCTION (if applicable) 2024 (Est.)
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Structural Engineer for a 750,000 gallon ground storage tank and duplex pump station at the water department's Cheniere facility in Grand Isle. Design included installation of a new 750,000 gallon ground water tank with two 4", 40 horsepower variable frequency drive (VFD) pumps, as well as associated piping, connections, and electrical components. Design also included precast/prestressed concrete pilings for foundational support, a masonry station building with a cast-in-place roof, and a generator and related components for emergency power. Plans also included demolition and removal of the existing elevated water tank at the project site.		
C.	(1) TITLE & LOCATION (City & State): Beamow Rd - Rural Bridge Replacement Various Parishes, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021 (Est.)	CONSTRUCTION (if applicable) 2023 (Est.)
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Responsible for structural design and rating of this bridge Sub-&-Superstructure by HL-93 (INV & OPR), and LADV-11. BKI is responsible for design services, including preliminary and final design, and plan sets for the replacement of sub-standard bridges and associated roadway approaches in the identified locations.		
D.	(1) TITLE & LOCATION (City & State): Inner Harbor Navigation Canal (IHNC) Surge Barrier / New Orleans & St. Bernard Parishes, LA / part of Greater New Orleans Hurricane & Storm Damage Risk Reduction System (GNO HSDRRS); EPC Design / Build Project New Orleans, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [] Check if performed with current firm. Work included responsibility for structural and technical on-site design engineering and support during construction for 2 miles of braced floodwall and bridge way with north and South access bridge and ramps, designed for HS-15 and HS-20 loadings, a steel sector gate with concrete monolith, bypass concrete barge gate with concrete monolith and access bridge road top deck, a steel lift gate with access bridge roadway on top deck, a concrete monolith walls and foundation with bridge access maintenance-way for maintenance mid-size truck. including all such ancillary and land-side structures as associated T-Walls, Access Ramps and bridges, Safe-House and Parking Platforms and Bulkheads Storage Platforms.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

NAME Daniel D. Marsalone, PE	ROLE IN THIS CONTRACT Senior Structural Engineer	YEARS EXPERIENCE a. TOTAL 26 b. WITH CURRENT FIRM 1
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FIRM NAME AND LOCATION (city & state):

BKI BURK-KLEINPETER, INC. NEW ORLEANS, LA

EDUCATION (Degree & Specialization): Bachelor of Science, Civil Engineering	CURRENT PROFESSIONAL REGISTRATION (State & Discipline): Professional Engineer, State of LA No. 28554
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OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.):

Mr. Marsalone is a Senior Structural Engineer with BKI and a Registered Professional Engineer in Louisiana, Mississippi, Texas, Arizona, and New Mexico. He has 25 years of experience in project management on structural concrete design projects, with project types including bridges (design and rating), water and wastewater, flood protection, street and highway, site drainage design, and traffic engineering. His software capabilities include AASHTOWare Bridge Rating (Virtis), ConSpan, ConBox, RC-Pier, L-Pile, STAAD.Pro, PCA Column, MicroStation/InRoads, AutoCad, Merlin-Dash, HEC-RAS, WSPRO, and EPANET.

RELEVANT PROJECTS

A.	(1) TITLE & LOCATION (City & State): Rural Bridge Replacement Initiative, Phase I - Contract No. 4400017597 Various Parishes, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input checked="" type="checkbox"/> Check if performed with current firm. Responsible for the design of replacement bridges for 33 on-system and off-system bridges in in Districts 03, 07, 61, and 62. Design responsibilities included structural design of the bridges, as well as hydraulic and scour analysis for the bridge sites and supervision of roadway design.		
B.	(1) TITLE & LOCATION (City & State): St. Charles Westbank Levee St. Charles Parish, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input checked="" type="checkbox"/> Check if performed with current firm. Responsible for the design of floodwalls and flood gates as well as the preparation of plans and specifications and construction administration of flood control structures, pump stations, and earthen levees for St. Charles Parish. This portion of the Parish is subject to heavy rainfall, tidal surges from the Gulf of Mexico, and hurricane flooding, often resulting in damages to industrial, commercial, residential, agricultural, and environmental facilities.		
C.	(1) TITLE & LOCATION (City & State): Jack Warner Parkway Extension to Martin Luther King, Jr. Blvd. Tuscaloosa, AL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input checked="" type="checkbox"/> Check if performed with current firm. Responsible for the substructure design of two railroad bridges, KCS's Warrior Mainline and Goodrich Spur in Tuscaloosa, AL. The substructure consisted of reinforced concrete piers and abutments founded on drilled shaft foundations. Unique to the project was the requirement that the design allow for both lines to remain in service during the project with only miniscule windows where the rail could be out of service.		
D.	(1) TITLE & LOCATION (City & State): WBV6.2 Belle Chasse Rail Road Flood Gate Modifications Belle Chasse, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Responsible for structural analysis of existing swing gate, hinge column and hinge anchorage and the design of modifications to the gate and anchorage to meet the requirements of ACI 318-11 Appendix D and USACE HSDRRS Structural Design Criteria. Design included both traditional analysis as well as solid model finite element analysis of the hinge column.		
E.	(1) TITLE & LOCATION (City & State): Shelter Number 3 New Orleans, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (if applicable) 2016
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Responsible for the design of and construction administration for Shelter Number 3 located on Lakeshore Dr. adjacent to Franklin Ave. The shelter consisted of reinforced concrete canopies covering the picnic area, two masonry restroom structures and a sewer lift station for the shelter.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

NAME Robert P. Furlow, PE	ROLE IN THIS CONTRACT Mechanical Engineer	YEARS EXPERIENCE a. TOTAL 15	b. WITH CURRENT FIRM <1
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FIRM NAME AND LOCATION (city & state):

BKI BURK-KLEINPETER, INC. NEW ORLEANS, LA

EDUCATION (Degree & Specialization):

Bachelor of Science / Mechanical Engineering

CURRENT PROFESSIONAL REGISTRATION (State & Discipline):

Professional Engineer, State of LA No. 35966

OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.):

Mr. Furlow joined BKI in 2021 as a mechanical engineer and is domiciled in Madisonville, LA. He has 15 years experience in the design of industrial facilities including storage, firewater, pump stations, pipelines, loading, and utility systems. He specializes in piping and facility design which includes pipe stress analysis and hydraulics; pipeline engineering; project management; developing piping, equipment & construction specifications; P&ID development; pump and compressor sizing; equipment selection and procurement; pressure vessel analysis; process balancing; fire protection; drafting & design. Mr. Furlow's is proficient in industry standard software platforms including ASME B31.3, B31.4 & B31.8.

RELEVANT PROJECTS

A.	(1) TITLE & LOCATION (City & State): PPG DPS Hurricane Isaac Damage Assessment & Repairs Plaquemines Parish, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) 2021
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input checked="" type="checkbox"/> Check if performed with current firm. Assisted in performing construction administration duties for the hazard mitigation services provided to Plaquemines Parish for the Scarsdale Drainage Pumping Station. The majority of pump station items were repaired or replaced in kind with BKI designing modern equivalents for damaged equipment whenever possible. The project included usage of FEMA Hazard Mitigation Grant funds and the new concrete and steel building was built on the existing foundation and designed to withstand a Category 5 hurricane and accompanying storm surge.		
B.	(1) TITLE & LOCATION (City & State): 25th Street Canal Drainage Improvements Project (Resiliency District) Gretna, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022 (Est.)	CONSTRUCTION (if applicable) 2024 (Est.)
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Mechanical engineer team member for the design of a new pump station with the capacity of 350 CFS to provide drainage for a residential subdivision in Jefferson Parish. In working with our Hydraulic and Hydrologic engineers, we developed a closed, pump-controlled system for the 25th Street subdivision that will alleviate flooding during high-intensity rainfalls.		
C.	(1) TITLE & LOCATION (City & State): Petroleum Storage Terminal Bayman, PR	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Mechanical design for 3.2 million bbl storage terminal with jetty and truck station loading, fire protection, storage tanks, and recovery system. Responsibilities included complete design of the fire protection system, pumps and manifold for complete flexibility, storage tanks and vessels, piping, truck loading/unloading station with additive blending, transmix and product recovery system, jetty refurbishment and utility and instrument air system.		
D.	(1) TITLE & LOCATION (City & State): Kings Quay Production Facility Covington, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable) 2019
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. Lead design engineer for multiple systems on large offshore oil and gas platform including Flowline, Heat Media, Seawater Cooling Media, and Gas Sales. Involvement including P&ID development, hydraulic analysis and equipment RFQ management.		
E.	(1) TITLE & LOCATION (City & State): Plant Hammond - SO2 Scrubber Rome, GA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (if applicable) 2008
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: <input type="checkbox"/> Check if performed with current firm. A single SO2 scrubber was installed to clean four coal units. Responsibilities included all aspects of project development such as writing technical specifications, stress analysis, hydraulic calculations, pressure vessel sizing, review drawings, review vendor quotes, and perform bid tabs among other tasks.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

NAME Daniel S. Caluda, Jr. - Associate	ROLE IN THIS CONTRACT Mechanical Designer	YEARS EXPERIENCE a. TOTAL 39 b. WITH CURRENT FIRM 34
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FIRM NAME AND LOCATION (city & state):

BKI BURK-KLEINPETER, INC.

NEW ORLEANS, LA

EDUCATION (Degree & Specialization): Bachelor of Science / Petroleum Engineering	CURRENT PROFESSIONAL REGISTRATION (State & Discipline): N/A
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OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.):

Mr. Caluda, domiciled in Gretna LA and is an Associate at BKI, holds major technical responsibility in the Mechanical Engineering Division. He holds a BS in Petroleum Engineering from Louisiana State University and has 39 years professional experience on projects that have included drainage, water/sewer utilities, HVAC, plumbing, sprinklers, and mechanical/industrial systems. Mr. Caluda has a proven reputation for maintaining the highest standards of professionalism, innovation, competence, and ingenuity by providing mechanical design services for dozens of pump stations in the Greater New Orleans region and has overseen design and construction of two of the largest pump stations in the world. His design and construction experience has made him an industry leader who has provided supervision for pump station operations as well as training of pump station operators.

RELEVANT PROJECTS

A.	(1) TITLE & LOCATION (City & State): PPG DPS Hurricane Isaac Damage Assessment & Repairs/Replacement <i>Plaquemines Parish, LA</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) 2021
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Mechanical Designer performed initial damage assessment required for hazard mitigation grant, and assisted in the mechanical design and construction administration required for equipment repairs and modifications to existing equipment so they could operate at a new elevation. In addition to the assessments, was the designer responsible for the design of the replacement of four new diesel pump drive engines, right angle gears and cooling equipment.		
B.	(1) TITLE & LOCATION (City & State): Hurricane Katrina Damage Assessments & Recovery Plan for the St. Bernard Port, Harbor & Terminal District - St. Bernard Parish, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2006	CONSTRUCTION (if applicable) 2006
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Preliminary engineering assessments of damage to St. Bernard Port facilities as a result of Hurricane Katrina and Hurricane Rita. BKI surveyed structural, mechanical and electrical systems at all existing structures, prepared preliminary cost estimates and made recommendations as to repairs to restore the Port to normal operations.		
C.	(1) TITLE & LOCATION (City & State): West Shore Levees and Floodwalls <i>St. Charles, St. John the Baptist, and St. James Parishes, LA</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. As, Mechanical Designer assisted in preliminary plans for a new 1,800 CFS drainage pump station located in the Reach I levee limits of the West Shore Levee Project adjacent to the I-10/I-55 interchange in St. John the Baptist Parish, Louisiana. The interchange roadways were designated hurricane evacuation routes for this area as well as the New Orleans Metropolitan area.		
D.	(1) TITLE & LOCATION (City & State): New Orleans Sewerage and Water Board Sewer Repairs Program Management - New Orleans, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable) 2019
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Mechanical Designer provided expertise for the preliminary assessments of damage to the New Orleans Drainage facilities as part of the consultant team. BKI had been selected by FEMA to be part of this team to provide assessments following Hurricanes Katrina and Rita. These assessments provided BKI the information needed to then prepare preliminary cost estimates and made repair recommendations to restore normal operations.		
E.	(1) TITLE & LOCATION (City & State): PCCP Extension of Staff Services <i>New Orleans, LA</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (if applicable) 2018
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) & SPECIFIC ROLE: [x] Check if performed with current firm. Operations Manager/Mechanical Designer providing the technical oversight on behalf of the CPRA during all project phases ensuring contract adherence for 70 features of design and construction associated with each of the pump stations: the 17th Street Canal (12,500 CFS), the Orleans Avenue Canal (2,700 CFS) and the London Avenue Canal (9,000 CFS). Also completed the design for the installation of backflow valves for the frontal protection system at the Hero Pumping Station.		

PORT OF NEW ORLEANS HURRICANES KATRINA AND GUSTAV DAMAGE ASSESSMENTS AND RECOVERY PROJECTS



BURK-KLEINPETER, INC. was contracted by the Port of New Orleans for the provision of engineering assessments of damages sustained by the Port as a result of Hurricanes Katrina and Gustav. BKI's services included engineering assessments of structural, mechanical and electrical systems of wharves, marshalling yards and service areas along the Mississippi Riverfront. In addition to thoroughly documenting damages, BKI also provided recommendations and cost estimates for repairs to all facilities affected by the storms. BKI's engineering staff coordinated with the Port's Administrative staff and with FEMA during the preparation of numerous project worksheets. Following Hurricane Katrina in 2005, teams of BKI engineers surveyed structural, mechanical, and electrical system at 39 facilities for the Port, covering nine linear miles of riverfront from the Crescent City Connection Mississippi River Bridge to the Henry Clay Wharf. For Hurricane Gustav in 2008, BKI's assessment teams surveyed another 24 existing structures. The result of these assessments were the completion of 64 PWs for Hurricane Katrina, totaling \$49 million and 19 PWs for Hurricane Gustav, totaling approximately \$2 million in repairs and reconstructions at the Port.

Reference

Mr Anthony Evett

504-528-3309

anthony.evett@portnola.com

Highlighted Staff

- Rene Chopin, III, PE
- Henry Picard, PE, PLS
- Tim Koenig, PE
- David Boyd, PE



LOCATION

New Orleans, LA

CLIENT

Port of New Orleans

SERVICES

Damage Assessment
Cost Estimates
Recommendations for Repair & Replacement
Plans & Specifications
FEMA Coordination
Project Worksheets

BKI 10304

NEW ORLEANS SEWERAGE AND WATER BOARD SEWER REPAIR PROGRAM MANAGEMENT



BURK-KLEINPETER, INC. was selected to provide program management and construction management services to the Sewerage and Water Board of New Orleans (S&WB) for repairs to 85 sewer lift stations damaged during Hurricane Katrina.

Ten separate design teams were assigned to prepare design documents under the review of BKI. Services included project management of the design teams, construction administration, inspection, contract documents, document control, and FEMA funding.

Construction management included holding pre-construction conferences for each construction contract, reviewing responses to shop drawing submittals and RFIs by the design teams, providing full-time resident inspectors to observe construction, reviewing contractor's schedules, processing claims for change orders, and handling final project closeout of each construction contract under the program.

Document control included schedule management, cost tracking, and FEMA coordination. FEMA coordination included grant management as well as checks that all costs were eligible for FEMA reimbursement and that all designs and construction met the FEMA Project Worksheet requirements. BKI successfully reviewed all expenditures for reimbursement qualification. In addition, BKI provided similar services for the FEMA Hazard Mitigation Grant Program (HMGP - FEMA 404) funds the S&WB received. The HMGP is administered by the State and funded by FEMA.



The total project funding is approximately \$75 million, with \$55 million under the Public Assistance Program and \$20 million under the HMGP. Construction dollars expended per year reached as high as \$20 million.

Reference

Mr Ron Spooner
504-585-2190
rspooner@swbno.org

Highlighted Staff

- Mike Chopin, PE
- Daniel Caluda, PE

LOCATION
New Orleans, LA

CLIENT
Sewerage & Water Board of New Orleans
FEMA funded

SERVICES
Construction Management
Resident Inspection
Design Reviews
Documents Control
Project Schedules
Cost Controls
Claims Management
Project Close Out
FEMA Coordination
Project Worksheets

BKI 10441

NEW ORLEANS DRAINAGE SYSTEM HURRICANE DAMAGE ASSESSMENTS



BURK-KLEINPETER, INC.

was selected as part of the consultant team by FEMA to provide preliminary engineering assessments of damage to the City of New Orleans drainage system following Hurricanes Katrina and Rita.

Damage to the S&WB utilities from these back-to-back storms was significant. Teams of engineers surveyed structural, mechanical and electrical systems for drainage facilities within the City for damage.

Following the preliminary damage assessments, BKI prepared preliminary cost estimates and made recommendations as to repairs to restore the City to normal operations. In addition, under a separate contract with the US Army Corps of Engineers, BKI was tasked with assessing the drainage system and developing mitigation and building “hardening” projects to prevent/reduce damage to these facilities during future storm events.

Reference:

Not available

Highlighted Staff

- Mike Chopin, PE
- Rene Chopin, III, PE
- Danny Caluda



LOCATION
New Orleans, LA

CLIENT
Federal Emergency
Management Agency
US Army Corps of Engineers

SERVICES
Damage Assessments
Cost Estimates
FEMA Coordination
Project Worksheets
Mitigation

BKI 10418

LAKE BORGNE LEVEE DISTRICT HURRICANE DAMAGE ASSESSMENTS



BURK-KLEINPETER, INC.

was selected by the Lake Borgne Levee District to provide preliminary engineering assessments of damage to their facilities following Hurricanes Katrina and Rita.

Damage to their levee structures and facilities from these back-to-back storms was significant. Teams of engineers surveyed structural, mechanical, and electrical systems for all structures within the district for damage.

Following the preliminary damage assessments, BKI prepared preliminary cost estimates and made recommendations as to repairs to restore these facilities to normal operations.



Projects Included

- Drainage Infrastructure
- Drainage Pumping Stations
- Levee Erosion
- Mechanical Systems
- Electrical Systems

Reference

Mr Ryan Foster

504-286-3100

rfoster@floodauthority.org

Highlighted Staff

- Danny Caluda, PE

LOCATION

Violet, LA

CLIENT

Lake Borgne Basin Levee District

SERVICES

Damage Assessments

Cost Estimates

FEMA Coordination

BKI 10307

NORTHROP GRUMMAN SHIPBUILDING HURRICANE DAMAGE ASSESSMENTS



BURK-KLEINPETER, INC. was selected by Northrop Grumman Ship Building, Inc. to provide preliminary engineering assessments of damage to their facilities in Pascagoula, MS; Gulfport, MS; and New Orleans, LA as a result of Hurricanes Katrina and Rita. Damages to their facilities from these back-to-back storms was significant.

Teams of BKI engineers surveyed structural, mechanical and electrical systems for over 470 structures within these three facilities for damage.

Following the preliminary damage assessments, BKI prepared preliminary cost estimates and made recommendations as to repairs to restore these facilities to normal operations.

BKI also met with Northrop Grumman's insurance agency adjuster and assessor during the damage assessment to provide technical knowledge of certain damaged components.

Reference

Mr Anthony Moore

228-935-4806

anthony.moore@hii-ingalls.com

Highlighted Staff

- Rene Chopin, III, PE
- Danny Caluda, PE
- Henry Picard, III, PE



LOCATION

Gulfport & Pascagoula, MS &
New Orleans, LA

CLIENT

Northrop Grumman
Shipbuilding, Inc.

SERVICES

Permitting
Civil/Site Design
Structural Design
Plumbing Design
Electrical & Fire Protection
Design
Mechanical & HVAC Design
Cost Estimates
Code Review
Construction Administration
Resident Inspection

BKI 10301

CITY OF GRETNA HURRICANE DAMAGE ASSESSMENTS



BURK-KLEINPETER, INC. was selected by the City of Gretna to provide preliminary engineering assessments of damage to the City following Hurricanes Katrina and Rita.

Damage to the City of Gretna and its surrounding areas from these back-to-back storms was significant. Teams of engineers surveyed structural, mechanical and electrical systems for all structures within the City for damage. BKI Assisted the city in coordinating the necessary FEMA project worksheets as part of our tasks. In addition to the FEMA Public Assistance program, BKI prepared HMPG Grant applications for the police department headquarters which assist the department in obtaining funding for an emergency operations center. CDBG grants through Jefferson Parish provided funding for emergency generators for the city's sewer lift stations and sewerage treatment plant.

Following the preliminary damage assessments, BKI prepared preliminary cost estimates and made recommendations as to repairs to restore the City to normal operations.

Reference

Mayor Belinda Constant

504-363-1599

bconstant@gretnala.com

Highlighted Staff

- Mike Chopin, PE
- Bart Mulls
- David Boyd, PE
- Rene Chopin, III, PE



LOCATION

Gretna, LA

CLIENT

City of Gretna

SERVICES

Damage Assessments
Concrete and Asphalt Roadway Repair
New Sewer Lift Station Design
Existing Building Rehabilitation
Sewer Lift Station Generator Design
FEMA Coordination

BKI 10313

HURRICANE KATRINA DAMAGE ASSESSMENTS AND RECOVERY PLAN FOR THE ORLEANS LEVEE BOARD



BURK-KLEINPETER, INC. was selected by the Orleans Levee Board to provide preliminary engineering assessments of damage to the Lakefront Airport, Southshore Marina, Orleans Marina, Lakeshore Drive Seawall and the Franklin Avenue Maintenance Facility following Hurricane Katrina and Hurricane Rita. Damages to all of these levee board properties from these back-to-back storms was significant.

Teams of BKI engineers surveyed each of the sites effected for damage. The area surveyed extended from the New Basin Canal to east of the Southshore Harbor.

BKI also prepared preliminary cost estimates and made recommendations as to repairs to restore each of the affected sites to normal operations.

A total of 106 project worksheets were prepares in coordination with FEMA. The total value of the identified damage repairs was over \$75 Million.

Reference

Mr. Ryan Foster

504-286-3100

rfoster@floodauthority.org

Projects included:

- Roadway Infrastructure
- Buildings and Warehouses
- Electrical Distribution and Lighting
- Parks and Recreational Facilities
- Drainage Infrastructure
- Marinas and Docks



Highlighted Staff

- Mike Chopin, PE
- Tim Koenig, PE
- David Boyd, PE

LOCATION

New Orleans, LA

CLIENT

Orleans Levee District

SERVICES

Damage Assessments

Cost Estimating

Recommendations for Repairs

FEMA Coordination

BKI 10303

ST. BERNARD PARISH SITE ASSESSMENT AND DISASTER RECOVERY



BURK-KLEINPETER, INC. aided St. Bernard Parish in their restoration and rehabilitation following major disaster events including numerous hurricanes.

BKI's recovery efforts included restoration of interim housing and temporary facility sites, modifications of existing pumping stations, rehabilitation of damaged sewer lift stations, design of new water treatment facility and restoration of damaged concrete and asphalt roadways.

In all of the projects listed above, BKI provided inspections and assessments of the damage and designed the repairs to restore/rehabilitate each project to meet the more stringent code requirements following major disaster events.

- Roadway Restoration
- Pumping Station Modifications
- Sewer Lift Station Rehabilitation
- Water Treatment Facilities
- Interim Housing and Temporary
- Facility Site Restoration

Reference

Mr Matthew Falati
504-278-4300
mfalati@sbpg.net

Highlighted Staff

- Rene Chopin, III, PE
- Henry Picard, PE, PLS
- Tim Koenig, PE
- David Boyd, PE



LOCATION

St. Bernard Parish, LA

CLIENT

St. Bernard Parish Department of
Public Works / St. Bernard Parish
Sheriff's Office / St. Bernard Port,
Harbor & Terminal District

SERVICES

Damage Assessment
Interim Housing Restoration
Temporary Facility Sites
Existing Pump Station
Modification
Sewer Lift Station Rehabilitation
Water Treatment Facility Design
Concrete & Asphalt Roadway
Restoration

BKI

NEW ORLEANS SUBMERGED STREETS RESTORATION PROGRAM MANAGEMENT



BURK-KLEINPETER, INC. was a member of the Program Management team to manage a \$150 million street reconstruction Phase 1 program for storm damaged major streets in the City of New Orleans, Jefferson Parish and St. Bernard Parish following Hurricane Katrina.

This program was funded by the FHWA, and the Louisiana Department of Transportation and Development (LADOTD) was the local sponsor. BKI's role was to provide design oversight, quality control of all design plans, field investigations to identify limits of damages, and construction resident inspection services.

Design oversight included review of each design firm's preliminary and final plans for conformance with LADOTD design criteria.

Full time construction inspection services were provided by BKI's staff of LADOTD certified asphalt pavement inspectors and support staff.

Highlighted Staff

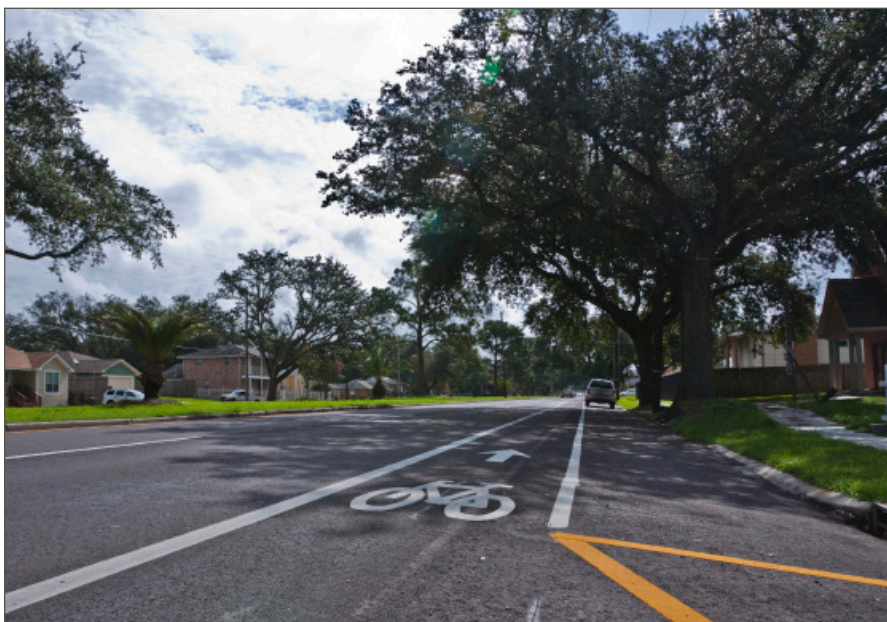
- Rene Chopin, III, PE

Reference

Mr Shawn Wilson

225-379-2555

shawn.wilson@la.gov



LOCATION

New Orleans, LA

CLIENT

Louisiana Department of
Transportation & Development

SERVICES

Design Oversight
Resident Inspection
Field Investigations
Program Management

BKI 10381

JEFFERSON PARISH WESTBANK STREET REPAIR PROGRAM MANAGEMENT

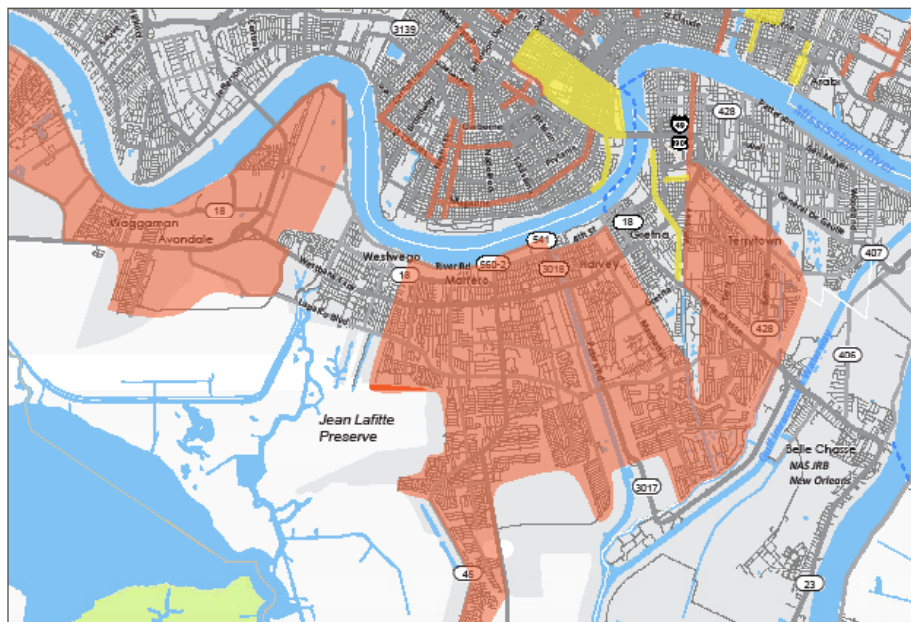


BURK-KLEINPETER, INC. was a member of the program management team for a streets improvement program for specific projects located throughout the Westbank of Jefferson Parish. BKI's role was to work closely with Jefferson Parish in administering the program in accordance with FEMA Guidelines.

The direct administrative roles BKI assisted in were: coordination with FEMA for processing request for reimbursements and meeting FEMA guidelines during design and construction; assist the design consultants in finalizing the scope of work in accordance with the street repair list approved by FEMA; assist Jefferson Parish in performing grant application activities and assisting Jefferson Parish with identifying damage; requesting FEMA assistance and working with Jefferson Parish and FEMA during project monitoring; and final inspections and audits.

The program management roles BKI assisted in were: document control; develop scope of work and budget for each project; monitor design schedules and review in-progress design documents; resolve constructability issues; review reports and final plans, specifications and final cost estimates; monitor general compliance of the plans and specifications with design standards; applicable codes and permitting restrictions; assist with developing bid packages and any required addendums; provide support at the pre-bid conference, bid opening and preconstruction conference; and assist with award of construction contract.

During construction BKI assisted in reviewing the contractor's construction schedules and schedule of values. BKI also helped set up and monitor a construction check list for early recognition of time delays, contractual disagreements and cost overruns;



conducted periodic on-site construction observation of the construction progress regarding schedule and compliance with contract documents; prepared reports documenting the site visits; verified and approved contractor's pay request; advised Jefferson Parish of any deficiencies or deviations from the contract document; as well as assisted with managing the change order process and preparing documentation required for construction change orders along with a written opinion for all required change orders.

LOCATION

Jefferson Parish, LA

CLIENT

Jefferson Parish Department of Public Works

SERVICES

Design Review
Project Management
FEMA Coordination
Resident Inspection
FEMA Coordination

BKI NO.10.063

Highlighted Staff

- Michael Chopin, PE
- Rene Chopin, III, PE

Reference

Mark Drewes

504-736-6783

mdrewes@jeffparish.net

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Public Address:
P. O. Box 19087
Burk-Kleinpeter, Inc.
New Orleans, Louisiana 70179

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000124	Active	09/12/1984	09/30/2021	Mr. Rene Adrian Chopin III # PE.0025174 - Active

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Public Address:

Burk-Kleinpeter, Inc. P.O. Box 19087
New Orleans, LA 70179

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000024	ACTIVE	09/12/1984	09/30/2021	Mr. Henry Maurice Picard III # PLS.0004736 - Active

SUBCONSULTANTS



COMPANY PROFILE

ROSTAN SOLUTIONS, LLC



Rostan Solutions, LLC (Rostan) is a consulting firm that specializes in emergency preparedness, response, and recovery services and is a nationally recognized disaster recovery company with a thorough knowledge of both State and Federal regulations pertaining to disaster recovery management, Federal Emergency Management Agency (FEMA) Public Assistance, Federal Highway Administration (FHWA) recovery funding, and mitigation funding programs. Rostan also has proven success in managing recovery programs and meeting complex documentation and records requirements on behalf of local governments for FEMA reimbursement for all relevant public assistance categories for more than a decade. Rostan's key disaster management personnel harness more than 150 years of combined experience with disaster recovery programs resulting from natural and man-made disasters.

In response to increasing client interest, in 2004 Malcolm Pirnie developed an emergency planning and disaster recovery management practice to assist its clients in addressing their disaster management needs. In 2006, Malcolm Pirnie created Rostan as a wholly owned subsidiary. In 2009, Malcolm Pirnie merged with Arcadis-US, Inc. (Arcadis) and Malcolm Pirnie became a wholly owned subsidiary of Arcadis. In 2013, Arcadis divested Rostan, and Rostan became an independent, privately-owned small business whose principal partners led the original development of the company while with Malcolm Pirnie in 2004.

Rostan has extensive experience with short-term and long-term recovery and mitigation projects. Our team members have worked closely with numerous municipalities, and higher education facilities with an instrumental vision for successful obligation of FEMA and HUD funding, while representing the clients' interests in meetings with the State and FEMA, leading to millions in awarded projects. Our Team provides a cradle to grave approach to ensure that every eligible cost is captured and reimbursed by the federal programs. We have developed systematic processes for implementing program support for Federally funded programs. Rostan includes experts in long-term recovery and mitigation planning, infrastructure, federal assistance programs, environmental and historic preservation, and hazard analysis, in addition to unique and cutting-edge technical resources. Our team encompasses expertise and direct experience with clients and can help navigate the complexities of the grant processes.

FULL LEGAL NAME:		KEYS OF SUCCESS:	
Rostan Solutions, LLC POC: Kyle Jones, Vice President Telephone: 225-202-3637 Fax: 813-333-7330 Email: kjones@rostan.com		<ol style="list-style-type: none">1. A specialized disaster recovery consulting firm with former GOHSEP personnel that harnesses well over 150 years of collective team experience directly with FEMA and CDBG-DR federal funding programs.2. Louisiana-based recovery team with FEMA technical eligibility and policy experts.3. Rostan has tenured experience with the FEMA Public Assistance Program that enables our firm to lead the recovery effort on behalf of communities and help our clients navigate the complexities of the FEMA Public Assistance program.	
CORPORATE STRUCTURE:			
Limited Liability Company			
YEARS IN BUSINESS:			
Established in 2006			
FEDERAL TAX IDENTIFICATION:			
20-5425053			
NUMBER OF EMPLOYEES:			
35			
OFFICE:			
8282 Goodwood Boulevard, Suite W6, Baton Rouge, LA 70806			



CARLOS ARREDONDO

TECHNICAL SPECIALIST

9 YEARS OF EXPERIENCE

9 Years—construction estimating, management, and building

8 Years—military and maritime law enforcement as member of U.S. Coast Guard

EDUCATION

Art Institute, Media and Animation, Fort Lauderdale, FL.

Art Institute of California, Industrial Design, Orange County, CA

CERTIFICATIONS & SKILLS

- RSMears
- FEMA CEF Training
- Master Carpentry
- Bilingual (Spanish/ English)
- OSHA Basic Safety
- Building project management
- Project Scheduling
- Cost Analyses
- Projection Plan Development
- Budgeting

Mr. Arredondo is an experienced disaster recovery specialist in private and public sector, with expertise in construction building, construction management, protocol development, cost analysis and team building.

PROFESSIONAL EXPERIENCE

ROSTAN SOLUTIONS || LOUISIANA || 2019–PRESENT

Technical Specialist

B&G CONSTRUCTION || NEW ORLEANS, LA || 2016–2019

Project Manager

JD RESTORATIONS || NEW ORLEANS, LA || 2014–2016

General Manager

CARBINE RESTORATIONS || NEW ORLEANS, LA || 2012–2014

Carpenter

U.S. COAST GUARD || LONG BEACH, CA || 2004– 2012

Boatswainsmate

PROJECT AND PROGRAMS EXPERIENCE

CORPUS CHRISTI INDEPENDENT SCHOOL DISTRICT, TEXAS || 2019–PRESENT

Technical Specialist

Responsibilities include building analysis and damage assessments; repair and mitigation scoping assessments; DDD Development; repair cost estimates.

GADSDEN COUNTY SCHOOL DISTRICT, FLORIDA || 2019–PRESENT

Technical Specialist

Responsibilities include building analysis and damage assessments; repair and mitigation scoping assessments; DDD Development; repair cost estimates.

QUINCY COUNTY SCHOOL DISTRICT, FLORIDA || 2019–PRESENT

Technical Specialist

Responsibilities include building analysis and damage assessments; repair and mitigation scoping assessments; DDD Development; repair cost estimates.

POLK COUNTY SCHOOL DISTRICT, FLORIDA || 2019–PRESENT

Technical Specialist

Responsibilities include building analysis and damage assessments; repair and mitigation scoping assessments; DDD Development; repair cost estimates; site inspection.

WEST FELICIANA PARISH, LOUISIANA || 2019–PRESENT

Technical Specialist

Responsibilities include building analysis and damage assessments; repair and mitigation scoping assessments; DDD Development; repair cost estimates; site inspection; debris and roads data collection and analysis; debris removal cost estimates.

EARLY EDUCATION & CARE, INC., FLORIDA || 2019–PRESENT

Technical Specialist

Responsibilities include building analysis and damage assessments; repair and mitigation scoping assessments; DDD Development; repair cost estimates.



CARLOS ARREDONDO

TECHNICAL SPECIALIST

THE DIOCESE OF ST. THOMAS IN THE VIRGIN ISLANDS, USVI || 2019–PRESENT

Technical Specialist

Responsibilities include building analysis and damage assessments; repair and mitigation scoping assessments; DDD Development; repair cost estimates; cost analysis.

LOUISIANA DEPARTMENT OF CORRECTIONS || 2019–PRESENT

Technical Specialist

Responsibilities include building analysis and damage assessments; repair and mitigation scoping assessments; DDD Development; repair cost estimates; site inspection; debris and roads data collection and analysis.

FLORIDA STATE HOSPITAL, DEPARTMENT OF CHILDREN AND FAMILIES || 2019–PRESENT

Technical Specialist

Responsibilities include building analysis and damage assessments; repair and mitigation scoping assessments; DDD Development; repair cost estimates.

PLAQUEMINE PARISH, LOUISIANA || 2019–PRESENT

Technical Specialist

Responsibilities include building analysis and damage assessments; repair and mitigation scoping assessments; DDD Development; repair cost estimates; site inspection; debris and roads data collection and analysis; debris removal cost estimates; cost analysis.

B&G CONSTRUCTION || NEW ORLEANS, LA || 2016–2019

Project Manager

Project scoping, project budgeting, sub-contracting, coordination, and management multiple trades, bid review and selection, cost analysis, hiring of new trades and field workers, project plan development, safety meetings, communication with clients and insurance agents, scheduling, inspections and permitting, material ordering, change orders, and any other task necessary for the completion of each project in a safely and cost-effective manner.

JD RESTORATIONS || NEW ORLEANS, LA || 2014–2016

General Manager

Responsible for business development and growth, payroll, scheduling, budgeting, project management, determine scope of work, coordinate with multiple construction trades, billing and collection, equipment purchase, communication with insurance providers and client.

CARBINE RESTORATION || NEW ORLEANS, LA || 2012–2014

Carpenter

Master Carpenter, structural and cosmetic construction, material purchase, equipment/tools purchasing, drawing/plans reading, crew handling and management, trouble shooting.

U.S. COAST GUARD || PSU 311 LONG BEACH, CA || 2004–2012

Boatswainsmate

Petty Officer 3rd class/E-4, Boarding Team Member, Tactical Boat Crew Member, Search and Rescue, Maritime Law Enforcement and Safety, Contingency Operation Iraqi Freedom Veteran.



JOSHUA BENNETT

TECHNICAL SPECIALIST

YEARS OF EXPERIENCE

13

EDUCATION

Louisiana Technical College,
Alexandria, LA, 2011

CERTIFICATIONS & SKILLS

- Microsoft Word
- Microsoft Excel
- RSMears
- FEMA CEF Training
- OSHA 10
- 8-hr. HAZWOPER
- HAZCOM
- Confined Space & Trench Certification

HIGHLIGHTS

- Corpus Christi Independent School District, TX
- Gadsden County School District, FL
- Quincy County School District, FL
- Polk County School District, FL
- West Feliciana Parish Damages
- Early Education & Care, Inc., FL
- Diocese of St. Thomas in the Virgin Islands, USVI
- Louisiana Department of Corrections
- Department of Children and Families—Florida State Hospital
- McNeese State University, LA
- City of Sulphur, LA
- Oakdale Housing Authority, LA
- Louisiana Christian College—Pineville, LA

Mr. Bennett has 13 years of experience in the construction industry. Throughout this time Mr. Bennett has amassed skills in construction management, project management, inspection, labor relations, quality control, scheduling, supervising, building site supervision, blueprints, reporting, time management, punch lists, contracting, estimating, material costing, invoicing, renovations, OSHA, hazardous materials, HAZMAT, building codes, electrical codes, and environmental codes.

PROFESSIONAL EXPERIENCE

ROSTAN SOLUTIONS, LLC || LOUISIANA || 2019–PRESENT
Technical Specialist

RAYFORD ENTERPRISES || ALEXANDRIA, LA || 2017–2019
Project Manager

LAWN CARE SPECIALIST || ALEXANDRIA, LA || 2015–2017
Owner

ALLEN REFRACTORIES CO. || NEW ORLEANS, LA || 2013–2015
Bricklayer

LA TASKFORCE || NEW ORLEANS, LA || 2009–2013
Blight Operations Manager

SHAW CONTRACTORS, INC. || BATON ROUGE, LA || 2008–2009
Quality Control Technician

SHAW ENVIRONMENTAL AND INFRASTRUCTURE || BATON ROUGE, LA || 2007–2008
Debris Tower Technician

PROJECT AND PROGRAMS EXPERIENCE

ROSTAN SOLUTIONS, LLC || LOUISIANA || 2019–PRESENT
Technical Specialist

Responsible for building analysis and damage assessments; repair and mitigation scoping assessments; bidding and cost estimating; DDD Development. Currently working on projects associated with the 2016 and 2019 Floods as well as Hurricanes Gustav, Ike, Irma, Maria, Harvey, Michael, Barry, Laura, and Delta.

RAYFORD ENTERPRISES || ALEXANDRIA, LA || 2017–2019
Project Manager

Responsible for evaluating problematic systems or facilities and determining what installation or repair services need to be performed and preparing relevant reports. Oversaw and coordinated workers who maintained and repaired electrical, plumbing, ventilation, and other building systems for multiple companies owned by Rayford Enterprises, including Cabana Mobile Estates, West Lakes Estates, LLC, and the Rayford Building.

LA TASKFORCE || NEW ORLEANS, LA || 2009–2013
Blight Operations Manager

Performed debris removal, rough-cut, and finish-cut blighted property in coordination with FEMA post-Katrina operations. Responsible for maintenance and upkeep of equipment, manpower, and coordination/execution of lawn care to potential blighted properties throughout Chalmette, LA. Responsible for maintaining and handing in documentation of completed work to management for submittal to FEMA.

SHAW ENVIRONMENTAL AND INFRASTRUCTURE || BATON ROUGE, LA || 2007–2008
Debris Tower Technician



EVAN DYER, CFM

GRANTS MANAGEMENT SPECIALIST

YEARS OF EXPERIENCE

16

EDUCATION

BS, General Studies: Disaster Science Management/ Geography/ Business Administration, Louisiana State University, 2005

CERTIFICATIONS & TRAINING

- Certified Floodplain Manager (CFM)

SKILLS

- FEMA Funded Projects
- Disaster Recovery
- Hazard Mitigation
- CDBG Resiliency Planning
- Disaster Recovery Housing
- Construction Management
- Grants Management
- Benefit Cost Analyses

For the past 16 years, Evan Dyer has been instrumental in the implementation and project management of large-scale disaster recovery programs in south Louisiana. In his previous stops at both the subgrantee and grantor levels, he has developed an extensive knowledge of grant administration, construction management, policies and procedure development — specific to Louisiana's Recovery and Resilience Programs. Mr. Dyer also has extensive programmatic knowledge of the 404 and 406 mitigation programs and has over a decade of hands-on experience in managing FEMA HMA Programs and major federal disaster.

PROJECT AND PROGRAMS EXPERIENCE

SLIDELL, LA & GALVESTON COUNTY, TX || 2018–PRESENT **FEMA Flood Mitigation Assistance Program || Hazard Mitigation**

Executive manager for grants management services through under the FEMA Flood Mitigation Assistance Program for Slidell, LA and Galveston, TX. Our team is providing consultation services in solicitation and bid coordination of elevation contractors, document preparation, coordination of grant and local match funds, creation and submittal of grant payment requests, coordination and liaison services, and assistance with project modifications and amendments. Funding from these programs help reduce or eliminate long term risks of flood damage to severe repetitive loss structures insured under the National Flood Insurance Program through residential elevation and mitigation reconstruction efforts.

WEST FELICIANA PARISH, LA || ST. JAMES PARISH, LA || IBERVILLE PARISH, LA **SHREVEPORT, LA || LOUISIANA COLLEGE, LA || WEST FELICIANA HOSPITAL, LA** **PINELLAS PARK, FL || 2016–PRESENT** **Hazard Mitigation and Public Assistance Grant Programs**

Serves as executive manager for a wide array of subgrantees (houses of worship, municipalities, counties, parishes, universities, and hospitals) and provides disaster recovery, mitigation, application development for federal funding sources. Additional responsibilities, at the request of the clients, include staff augmentation, 406 and 404 Mitigation funding, basic engineering services, contract management, and policy development.

WEST FELICIANA PARISH, LA **HMGP Streambanks Stabilization Project**

Integral team member for the Bayou Sara streambank mitigation project, which is being funded under the Hazard Mitigation Grant Program (HMGP). Responsible for coordinating the project activities and serving as liaison among the client and subcontracting companies involved in primary basic engineering tasks including the hydraulic and hydrologic study. Additional responsibilities include data collection and dissemination for all tasks involved in the project as well as reporting to the state of Louisiana for record keeping, including state-required requests for reimbursement and quarterly reporting.

BATON ROUGE, LA **Louisiana Statewide Comprehensive Watershed-Based Floodplain Management Program** **Development – Coastal Restoration and Protection Authority (CPRA)**

Integral planning element of the Phase 1 Investigative Statewide Floodplain Development Team. The goal of the Phase I initiative was to develop a path forward for a Statewide Comprehensive Watershed Based Floodplain Management Program, to be confirmed and implemented through future phases of program development. Developed and moderated meetings to investigate the challenges and opportunities of statewide floodplain management, and to leverage existing floodplain management efforts of these and other agencies, as well as local jurisdictions, non-profits, subject matter experts, and others. These findings were made to help build a path forward to a clear and sustainable framework for floodplain management in the state of Louisiana.



EVAN DYER, CFM

GRANTS MANAGEMENT SPECIALIST

IBERVILLE PARISH, LA; ST. JAMES PARISH, LA; JEFFERSON PARISH, LA; HARDIN CO, TX

Hazard Mitigation Grant Application Development

Assisted in the development and submittal of funding assistance applications for Iberville, St. James, City of Gretna, and Hardin County, TX under the Hazard Mitigation Assistance Grant Program (HMA). Each application was submitted to the Louisiana Governor's Office of Homeland Security and Emergency Preparedness and TDEM for scoring and ranking before submission to Federal Emergency Management Agency (FEMA).

HOUSING AUTHORITIES || NEW IBERIA, LA; DUSON, LA; EUNICE, LA

Public Assistance Grant Program Management Services

Project Manager for the implementation of grant management services to assist housing authorities with the PA process. The project scope includes Project Worksheet (PW) development, review, approval, and implementation as well as representation of the Duson Housing Authority for all FEMA and State related tasks. Identified flood damage and costs to include in PWs and analyzed mitigation opportunities for subsequent proposal development for additional funding.

PLANNING/PROJECT MANAGER EXPERIENCE, AECOM TECHNICAL SERVICES 2015-2017

NORTH CAROLINA DEPARTMENT OF EMERGENCY MANAGEMENT || FEMA DR-4285 || 2016

Community Development Block Grant, Disaster Recovery (CDBG-DR) Resiliency Planning

Led the development and authored CDBG-DR Resiliency Plans for Duplin and Sampson Counties in North Carolina as a result of Hurricane Matthew. The overarching goals of these planning efforts were to reflect Hurricane Matthew's impact for resilient housing, infrastructure, ecosystem, and economic development. Effort objectives were to develop strategic, resilient redevelopment projects and subsequent plans to define any unmet funding requirements needed to implement critical actions after taking into account other local, state, and federal funding sources.

GOVERNOR'S OFFICE OF HOMELAND SECURITY AND EMERGENCY PREPAREDNESS (GOHSEP) || BATON ROUGE, LOUISIANA || 2016-2017

Louisiana Shelter At Home Program

Coordinated extensive Louisiana Shelter at Home Outreach campaign for Great Flood of August 2016, tasked with conducting more than 8,000 door-to-door applicant outreach attempts in only two weeks' time. Responsible for managing tasks including call center and contractor liaison field training, scheduling and coordinating logistics for field staff; developing task specific guidance for outreach teams, managing data entry and QC support staff; utilizing live, interactive web-based mapping tools to generate geographically-grouped field assignments.

NEW YORK DEPARTMENT OF DESIGN AND CONSTRUCTION || NEW YORK, NY || 2017

Disaster Readiness and Mobilization Plan

Scope, design and planning development for how New York will prepare for, respond to, and mitigate the consequences of an emergency. This plan prescribes how the city will respond to disasters that may occur within the five Boroughs of New York City or that have a direct effect on operations under Task 9-Supervision, Management and Administrative Services under New York's Department of Design and Construction (DDC). This plan establishes the basis for emergency response regardless of the type of emergency, additional planning documentation may be added to detail specific response for certain events.

LOUISIANA-OFFICE OF COMMUNITY DEVELOPMENT-DISASTER RECOVERY UNIT, 2015-2017

OFFICE OF COMMUNITY DEVELOPMENT || GRANTS MANAGER || BATON ROUGE, LA || 2011-2015

State of Louisiana Hazard Mitigation Grant Program

Beginning in 2011, transitioned into the program grants manager role and was tasked with developing and managing the OCD HMGP applicant universe which provided the structure and financial parameters of the \$750 million elevation/reconstruction/IMM program. During this time, he administered, organized, and directed the management of all policy development, QA/QC, grants management, finance, audit, information technology, and closeout sections for HMGP. Within these capacities, he also served as the HMGP budgetary and audit advisor to the Division of Administration Commissioner for all committees, hearings, and supplementary state agencies coordination.



EVAN DYER, CFM

GRANTS MANAGEMENT SPECIALIST

REGIONAL SUPERVISOR || GRANTS MANAGER || BATON ROUGE, LA || 2018–2011

State of Louisiana Hazard Mitigation Grant Program

As regional supervisor responsible in planning, organizing, and directing the management and administration of (4) regional area teams for the Hurricane Katrina/Rita OCD Hazard Mitigation Grant Program as priorities established by the Louisiana Recovery Authority; Supervised Assistant Regional Supervisor, QA/QC of requests for project reimbursements, and 35 regional staff personnel while monitoring workloads, administrative support systems, and internal reporting relationships. Mr. Dyer developed and implemented procedures and performance objectives through routine training and exercises with staff while also being responsible for oversight of Supplemental Staff Contractor personnel. Through program startup, was a key architect in designing the framework for pre-grant construction activities, construction oversight, milestone inspections and other program management activities necessary for the elevation, reconstruction, and the Individual Mitigation Measures of homes. Coordinated all pre-application activities include project kickoff meetings with applicants and contractors, contract/cost estimate examination, and engineering/milestone/payment scheduling review. Supervised and monitored all construction and closeout activities including documentation of pre-determined construction milestones with photographs and reports, troubleshooting construction items with homeowner, contractor, code enforcement, and client representatives.

**INNOVATIVE EMERGENCY MANAGEMENT || OFFICE OF COMMUNITY DEVELOPMENT PROPOSAL DEVELOPMENT
BATON ROUGE, LA || 2008**

Mitigation Specialist

Highly knowledgeable of both the grant application process and the administration of funding for the Community Development Block Grants (CDBG) and the Hazard Mitigation Grant Program (HMGP). He developed and reviewed Technical Approach documentation which detailed in sequential order, how IEM intended on running its share of the Road Home Elevation Incentive program. Also, he developed processes and procedures which identified roles and responsibilities of key players within IEM's Request for Proposal to the Office of Community Development.

GROUP LEAD || FEDERAL EMERGENCY MANAGEMENT AGENCY || NEW ORLEANS, LA || 2005–2008

Public Assistance / Hazard Mitigation

As part of the FEMA review team, provided program guidance to state officials, grantees, and subgrantees regarding complex grant and project worksheet determinations for hazard mitigation, floodplain, and environmental processes. Responsible for reviewing and approving more than \$1.5B dollars in Hazard Mitigation Grants and Public Assistance Project Worksheets through FEMA Region 6. Consulted with the Environmental Liaison Officer to provide Categorical Exclusion level II and III determination reviews for DR-1603/1607 Project Worksheets (PW). Implemented streamline measures and technical assistance for Environmental/ Historic Preservation (EHP) compliance activities, in coordination with JFO, Federal, Tribal and State EHP resource agencies. Assisted with the development of project scopes of work and review them for accuracy and eligibility while providing technical assistance and ensure regulatory compliance; tracked deadlines and process extension requests; identified Improved and Alternate Projects; reviewed special considerations and performing insurance reviews on permanent repair projects; and reviews of committed disaster funds, including authorizations, tracking, and management of funds.



KYLE A. JONES, CEM

PRINCIPAL | VICE PRESIDENT

YEARS OF EXPERIENCE

17

EDUCATION

BA, Business Administration,
Louisiana State University, 2007

PROFESSIONAL REGISTRATIONS

- Certified Emergency Manager (CEM)

QUALIFICATIONS

- FEMA Professional Development Series
- IS-139: Exercise Design
- IS-230 b: Fundamentals of Emergency Management
- IS-235 b: Emergency Planning
- IS-240 a: Leadership & Influence
- IS-241 a: Decision Making & Problem Solving
- IS-242 a: Effective Communication
- IS-244 a: Developing & Managing Volunteers
- FEMA Multi-Hazard Emergency Planning for Schools – Train the Trainer
- HS/TEEX Threat & Risk Assessment Course
- IS-00001: Emergency Program Manager
- IS-07: A Citizen's Guide to Disaster Assistance
- IS-26: Guide to Points of Distribution
- IS-100: Intro to ICS
- IS-100.SCa: Intro to ICS for Schools
- IS-200: ICS for Single Resources & Initial Action Incidents
- IS-212: Intro to Unified Hazard Mitigation Assistance

Mr. Jones is a Certified Emergency Manager with a tenured background in emergency management, public assistance and federal cost recovery programs. Mr. Jones specializes in maximizing funding sources for clients and applying the federal regulations and/or policies correctly to projects. Mr. Jones also specializes in FEMA Appeals, Code of Federal Regulation analysis, and interfaces with FEMA and State level governments on behalf of clients to ensure program success. Mr. Jones also has extensive programmatic knowledge of the 404 and 406 mitigation programs and has nearly two decades of hands-on experience in managing HMGP/HMA, Public Assistance Programs, and major federal disaster declarations, and incorporating National Incident Management System components on behalf of clients.

PROFESSIONAL EXPERIENCE

ROSTAN SOLUTIONS || BATON ROUGE, LA || 2018 – PRESENT
Vice President

ARCADIS NORTH AMERICA || BATON ROUGE, LA || 2014–2018
Director, Disaster Programs

EAST BATON ROUGE PARISH || BATON ROUGE, LA || 2007–2014
Deputy Director

STATE OF LOUISIANA OFFICE OF EMERGENCY PREPAREDNESS – MILITARY DEPARTMENT || BATON ROUGE, LA || 2003–2007
Operations Support & Management

PROJECT AND PROGRAMS EXPERIENCE

LOCAL GOVERNMENTS, SCHOOLS, STATE AGENCY, PRIVATE-NON-PROFITS (PNP), HOUSES OF WORSHIP (HOW), AND HOUSING AUTHORITIES || 2014–PRESENT
Public Assistance Program Management

Serves as the Program Executive and Principal for Public Assistance Programs on behalf of clients that are impacted by a disaster totaling over \$2B in program management since 2014. Responsible for managing projects and representing client interests from the initial scoping meeting through closeout and subsequent appeals across numerous sectors of Applicants. Local Government recovery experience includes assistance provided to West Feliciana, St. James Parish, Plaquemines Parish, West Feliciana Sheriff's Office, West Feliciana Parish Hospital, City of Sulphur, City of Lake Charles, and the City of Pinellas Park. School recovery experience includes assistance provided to West Feliciana Parish Schools, Fort Worth ISD-TX, Texas City ISD-TX, Little Cypress ISD-TX, Huffman ISD-TX, Corpus Christi ISD-TX, Gadsden County Schools, and Polk County Schools-FL. State Agency recovery experience includes assistance provided to Louisiana Department of Corrections and Florida State Hospitals. Private-Non-Profits (PNP) recovery experience includes assistance provided to Group Health Cooperative-South Central Wisconsin and Early Education and Care, Inc-FL, United Christian Academy-TX, Community Christian School-TX, and Hamilton Christian Academy, LA. House of Worship recovery experience includes assistance provided to Apostolic Christian Church-LA and First Baptist Church of Denham Springs-LA. Housing Authority Recovery experience includes assistance provided to Duson Housing Authority, New Iberia Housing Authority, Oakdale Housing Authority, and Eunice Housing Authority.

MULTIPLE LOUISIANA CLIENTS || 2014–PRESENT
Hazard Mitigation Assistance (HMA) Project Management

Serves as the Program Executive and Principal for Hazard Mitigation Assistance Programs on behalf of clients that are impacted by a disaster totaling over \$500MM in program management since 2014. Represents agencies interests for various hazard mitigation projects, including Louisiana State Penitentiary, West Feliciana, St. James and Iberville Parish. Responsible for coordinating



KYLE A. JONES, CEM

PRINCIPAL | VICE PRESIDENT

the project activities and serving as the executive liaison amongst the client, subcontracting companies involved in primary basic engineering tasks including the hydraulic and hydrologic study. Additional responsibilities include data collection and dissemination for all tasks involved in the project as well as reporting to the state of Louisiana for record keeping, including state-required requests for reimbursement and quarterly reporting.

MULTIPLE LOUISIANA CLIENTS || 2007–2014

Emergency Planning

Developed East Baton Rouge Parish, Pointe Coupee Parish, Vermilion Parish and Evangeline Parish Emergency Operations Plan (EOP). Developed East Baton Rouge Parish, Pointe Coupee Parish, Vermilion Parish and Evangeline Parish Continuity of Operations Plan (COOP). Developed the first Point of Distribution (POD) Plan for the City of Baton Rouge, Parish of East Baton Rouge and managed and maintained database of all Critical Infrastructure / Key Resource facilities parish wide. Responsible for managing the EOC during activations and streamlining resource requests during activations, facilitated briefings during EOC activation for the Mayor-President.

MULTIPLE CLIENTS || 2007–2014

Public Assistance, Hazard Mitigation and Program Administration

Managed the Public Assistance and Hazard Mitigation Programs for East Baton Rouge Parish totaling more than \$300 million in federal funding. Managed preliminary damage assessments (PDA) and streamlined reporting processes for the Parish. Served as the City-Parish Authorized Representative for FEMA Public Assistance & Hazard Mitigation Programs and Appeals, Department of Homeland Security Office of Inspector General (OIG) Audits, and Louisiana Legislative Auditor (LLA) Site Visits. City-Parish Homeland Security & Emergency Preparedness Liaison to the East Baton Rouge Parish School System & Voluntary Organizations Active in Disasters (VOAD) for all engagements. Directly managed and oversaw the entire East Baton Rouge Parish Hazard Mitigation Assistance (HMA) program with \$26MM of funding being granted to East Baton Rouge Parish during tenure. Projects included: FMA Acquisition of 8 Structures, HMGP-DR 1786 Acquisition of 24 Structures, HMGP-DR 4080 Wind Hardening Project, HMGP-DR 1786 Wind Retrofit & Floodproofing, SRL Acquisition of 8 Structures, HMGP-DR 1603 Acquisition of 8 Structures, HMGP-DR 1603 Critical Infrastructure Generator Installation.

EOC ACTIVATION, SPACE SHUTTLE COLUMBIA DISASTER, FLOODING, HURRICANE RESPONSE || 2003–2006

Disaster Recovery and Response Coordination

Assisted Disaster Recovery Division with FEMA Public Assistance Windshield Surveys and Funding Implementation on behalf of Parishes for DR-1521 and DR-1668 (Flooding) and Hurricane Ivan Response Efforts (DR-1548). Coordinated State response efforts with the Operations Division and managed state and local resource requests during Space Shuttle Columbia Crash for DR-3172 and coordinated crash site coordinates with the Louisiana Air National Guard inside State Emergency Operations Center (EOC).



CLIFF THOMPSON

SENIOR DISASTER RECOVERY SPECIALIST

YEARS OF EXPERIENCE

39

EDUCATION

Louisiana State University, 2 years
Associated Builders & Contractors, 2 years

REGISTRATIONS & CERTIFICATIONS

- Construction Coordinator, Louisiana
- RS Means Costworks and RS Means Online

TRAINING

- EMA IS-00100 Introduction to the Incident Command System
- FEMA IS-00200 ICS for Single Resources and Initial Action Incidents
- FEMA CEF Training
- OSHA 10, 30 & 40
- 8 Hr. HAZWOPER
- HAZCOM
- Confined Space & Trench Certification
- Emergency Response

HIGHLIGHTS

- More than 35 years of construction experience
- 16 Years of experience in Emergency Response and Recovery for Katrina, Rita, Gustav, Ike, Isaac, Sandy, Louisiana Great Floods 2016, Irma, Maria, Harvey, Michael, Barry, 2019 Floods, Laura and Delta.
- 428 PAAP Expert
- SD/SI Expert

Mr. Thompson has more than 39 years of experience in the construction industry. During his tenure, he gained extensive managerial experience in the residential, commercial, and industrial construction industries. His working knowledge of isometric, orthographic, architectural, topographic and construction drawings make him suitable for multi-craft projects, as well as subcontract coordination. Mr. Thompson has experience in managing projects of up to a 300-manpower load and can coordinate well with other contractors. Mr. Thompson also has experience in municipal projects. He has done work with the U.S. Army Corps of Engineers, including working as the Field Project Manager during the unwatering of New Orleans following Hurricane Katrina. In addition, Mr. Thompson has more than 14 years training and experience with FEMA Public Assistance (PA) and Individual Assistance (IA) Technical Assistance Contract (TAC) Community Development Block Grant-Disaster Recovery (CDBG-DR) programs conducting site assessments and developing detailed estimates based on the findings in the field.

PROJECT AND PROGRAMS EXPERIENCE

ROSTAN SOLUTIONS || 2019-PRESENT

Senior Technical Specialist || Subject Matter Expert

Conduct disaster Recovery Management for Texas, Louisiana, Florida, USVI and Wisconsin. Provide Technical Support over several Independent School Districts, Municipalities and Critical/Non-Critical PNPs.

GOVERNOR'S OFFICE OF HOMELAND SECURITY AND EMERGENCY

PREPAREDNESS (GOHSEP) || LOUISIANA || 2017-2019

Disaster Recovery Specialist

GOHSEP Technical Team Lead, Problem Resolution Officer and Subject Matter Expert for Public Assistance and CEF. Developed cost analysis, white Papers, scope alignments and QA/QC the Technical Teams documentation associated with FEMA PA Project worksheets for Hurricanes Katrina, Rita, Gustav, Ike, Isaac and the Flood of 2016. As a Lead on the Technical Team, we are responsible for assisting the State Applicant Liaisons (SALs) and GOHSEP Management in developing detailed damage assessments and estimates and FEMA Cost Estimating Factsheets (CEFs) based on damages incurred by the Sub-recipients on any declared disasters. In the last year, our Technical Team has increased the grant total for the 2016 Flood by \$83,000,000.00.

CITY OF WHARTON, TX || 2016-2017

FEMA Project Specialist and Estimator

Develop detailed damage Assessments and Cost Estimating Factsheets (CEFs) for the damages associated with their spring flooding to the Parks and infrastructure.

NEW JERSEY DEPARTMENT OF COMMUNITY AFFAIRS || RECONSTRUCTION, REHABILITATION, ELEVATION AND MITIGATION (RREM) PROJECT || 2015-2017

Construction Manager

Oversee the execution of Community Development Block Grant (CDBG-DR) funds for properties damaged by Hurricane Sandy in New Jersey.

CITY OF NEW YORK || BUILD IT BACK PROJECT || 2015

Construction Manager

Oversee the execution of Community Development Block Grant (CDBG-DR) funds for properties damaged by Hurricane Sandy in New York City.

NEW YORK CITY HOUSING AUTHORITY (NYCHA) || 2014-2015

FEMA Technical Support

FEMA Technical Support Specialist to develop and validate the 428 PAAP budget estimate for all Hurricane Sandy damaged developments. Working with the NYCHA-PMO on the Funding and



CLIFF THOMPSON

SENIOR DISASTER RECOVERY SPECIALIST

Estimating Team, Mr. Thompson helped to write a \$3.1 billion grant — the largest in FEMA history. Assisted in the Tier 1 and Tier 2 reviews for all the housing developments in New York.

GOHSEP || LOUISIANA || 2012–2014

Disaster Recovery Specialist

Developed cost analysis and scope alignments associated with FEMA PA Project worksheets for Hurricanes Katrina, Rita, Gustav, and Ike as well as conducting field damage assessments and Project Worksheet (PW) development following Hurricane Isaac.

LOUISIANA OFFICE OF COMMUNITY DEVELOPMENT, DISASTER RECOVERY UNIT (OCD-DRU) || SMALL RENTAL PROPERTY PROGRAM || NEW ORLEANS, LA || 2009–2012

Field Construction Coordinator

Acted as Field Construction Coordinator for the Small Rental Property Program. He assisted applicants in the design and construction efforts associated with the SRPP Grants Management Program including several properties listed on the Department of Interiors Historic Landmark Structures in and around New Orleans, La.

TERREBONNE PARISH UNWATERING || TERREBONNE PARISH, LA || 2008

Field Project Manager

Mr. Thompson acted as the Field Project Manager over unwatering of Terrebonne Parish following Hurricane Ike. He was responsible for coordinating the staging, placing, assembling and monitoring of 75 pumps, which pumped 12 billion gallons in 24 days.

JACKSON BARRACKS RECONSTRUCTION PROJECT || LOUISIANA MILITARY DEPARTMENT (LAMD) NEW ORLEANS, LA || 2006–2009

Project Manager

Mr. Thompson reviewed and conducted scope alignments for FEMA Project Worksheets and developed version requests, based on eligibility to the Project Worksheets associated with LAMD at Jackson Barracks in New Orleans. He oversaw design from the architect/engineer, reviewed and made recommendations on design efforts based on FEMA eligible scope items. He attended and participated in regular meetings with FEMA and GOHSEP personnel and oversaw construction efforts. Mr. Thompson gained a working knowledge of R.S. Means and National Estimator from working on this project. Participated in (2) 106 (MOA) Memorandum of agreements with FEMA EHP and oversaw the design and rehabilitation of the Jackson Barracks Historic Garrison and Historic Armory/ Powder Magazine as well as working with the State Historic Preservation Office (SHPO) on character defining features that were implemented in reconstruction of the single family dwellings on Beauregard Dr.

DEBRIS MONITORING SERVICES FEMA DR-1786 || BATON ROUGE AND GRAND ISLE, LA || 2008

Field Lead, Debris Monitors and Dump Sites

Oversee field operations for debris collection and disposal following Hurricane Gustav.

TARGA/DYNEGY || VENICE, LA || 2006

Field Project Manager

Rebuild the plant and remove 5 ½ feet of rozcane (swamp grass) from the plant and get the plant up and running following Hurricane Katrina. This plant supplies natural gas to approximately 40% of the East Coast.

U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS UNWATERING || 2005

Field Project Manager

Field Project Manager during the unwatering of New Orleans following Hurricane Katrina.

UNION TANK CAR FACILITY || ALEXANDRIA, LA || 2004

Field Project Manager

Oversee construction of the Union Tank Car Facility. 1 Million Sq. Ft. under roof.

CONCRETE INNOVATIONS INC. || 1998–2003

Owner

A decorative concrete, wet stamp, stain, overlay and industrial coatings company.



JAMIE WELSH

PROJECT MANAGER

YEARS OF EXPERIENCE

8

EDUCATION

BA, Political Science, Minor in English, Loyola University New Orleans, 2009

RECOVERY EVENTS

2020

Hurricane Zeta
Hurricane Delta
Hurricane Sally
Hurricane Laura
COVID-19 (FEMA DR-4484)

2019

Flooding, LA
Hurricane Barry

2017

Hurricane Irma
Hurricane Harvey
Tropical Storm Nate

2016

Flooding, LA

Ms. Welsh offers extensive experience in Disaster Planning and Recovery. Her work with disaster-related projects began in 2008 during recovery assistance efforts in the wake of Hurricane Gustav and have since earned the designation as subject matter expert in the area of Public Assistance, with specific expertise in reimbursements, identifying and recovering project overpayments, procurement, financial reconciliation, and closeout. She is well-versed in FEMA codes and regulations, which allows her to carefully monitor and oversee all recovery program tasks to ensure maximum funding recovery and minimal funding de-obligation.

RELEVANT PROFESSIONAL EXPERIENCE

ROSTAN SOLUTIONS || BATON ROUGE, LA || 2019–PRESENT Program Manager

Serves as Program Manager to Concordia Parish Police Jury in Louisiana under DR-4462 Louisiana Flooding; Plaquemines Parish Government in Louisiana under DR-4458 Hurricane Barry, DR-4345 Tropical Storm Harvey, DR-3392 Tropical Storm Nate, DR-4484 COVID-19 Pandemic, DR-4559 Hurricane Laura, EM 3549 Hurricane Sally, DR-4570 Hurricane Delta, and DR-4577 Hurricane Zeta; Plaquemines Parish Medical Center under DR-4484 COVID-19 Pandemic, DR-4559 Hurricane Laura, EM 3549 Hurricane Sally, DR-4570 Hurricane Delta, and DR-4577 Hurricane Zeta; and West Feliciana Parish Sheriff's Office under DR-4570 Hurricane Delta offering disaster consulting services. Responsibilities include providing policy guidance and recommendations to clients; developing project scopes of work for FEMA PA Project Worksheets (PWs); delivering technical expertise in FEMA meetings; requesting and receiving reimbursement of expenditures timely; and efficiently processing closeout.

CSRS, INC. || BATON ROUGE, LA || 2016–2019 Public Assistance Consultant

Served as the grants management consultant to the East Baton Rouge Parish School System managing 40 projects consisting of remediation, permanent repair, and contents claimed under federally funded grant for DR-4277 Louisiana Severe Storms and Flooding (August 2016 Flood) awarded from FEMA's Public Assistance Grants Program. Provided expertise in Federal policy, federal code and law which governs disaster recovery assistance. Worked closely and collaborated with various funding agencies and internal School Board departments to ensure the proper use and application of the Public Assistance funding. Focused on maximizing eligible, allocable federal dollars, and capturing all storm damaged elements. Used substantial experience gained through work performed on numerous disaster recovery projects for the benefit of the school system. Worked efficiently to reduce the timeline for eligibility determinations that support project cash flow sources, kept all stakeholders informed of progress and issues for resolution, and fostered a strong team atmosphere. Achieved \$43,455,222.49 in reimbursements.

DMS DISASTER CONSULTANTS || BATON ROUGE, LA || 2016 Project Specialist

Served as a Project Specialist to Division of Administration Office of Risk Management as Katrina Overpayments Team Lead to include acting as subject matter expert in Public Assistance project overpayments; performed detailed analyses of overpaid FEMA projects presented by GOHSEP; conducted research to determine ORM's role in the projects' federal obligations and further coordinated between the two agencies and respective applicants in finalizing ORM's financial responsibility. Performed daily DOA Facility Planning and Control (FP&C) project reconciliation reviews to determine all payments made by ORM across all claims associated to the respective project inquiries; conducted formal analyses of all payments by assembling and developing final actual costs for grant closure. Co-Lead under FEMA DR-4277 to include researching and performing daily ORM total property and auto claims to-date report for management and FEMA Kickoff Meeting purposes. Compiled extensive claim data currently submitted to Third-Party



JAMIE WELSH

PROJECT MANAGER

Administrator Sedgwick. Details include incurred estimated damages and respective costs. Provided reports to management as well as summary of Category 1644 losses with preliminary comprehensive and individual reserve totals.

GOVERNOR'S OFFICE OF HOMELAND SECURITY AND EMERGENCY PREPAREDNESS || BATON ROUGE, LA || 2016
Problem Resolution Officer I

Served as a subject matter expert in Public Assistance programs; provided technical assistance to Public Assistance applicants, the internal Grants Management section, and Closeout; worked with established processes, policies, and procedures pertaining to the FEMA and state recovery programs; conducted research in finding legal and policy decisions for determining the proper application of the Public Assistance grants; analyzed and recommended alternatives for a wide range of program issues; coordinated and/or worked with applicants to gather/compile information and/or documentation to request eligible reimbursements and closeouts; composed internal and external correspondence and reports; advised higher level management on all situations as needed; provided management with accurate and timely status reports; and attended agency coordination, planning, and operational meetings as well as trainings and exercises. Reconciled approximately \$2,252,901.81 in overpayments.

GOVERNOR'S OFFICE OF HOMELAND SECURITY AND EMERGENCY PREPAREDNESS || BATON ROUGE, LA
2013-2016

Disaster Recovery Specialist II

Provided administration and management to the Port of New Orleans and City of New Orleans in preparing documentation, invoices, and information to request reimbursement for federally funded grants awarded from FEMA's Public Assistance Grants Program; reviewed approved grants and processes payments in conjunction with the State of Louisiana and FEMA; and provided guidance and assistance to the sub-grantee to ensure compliance with applicable federal and state laws and regulations; Section: Public Assistance; Group: New Orleans; Specific Applicants: Port of New Orleans (primary applicant; \$17,401,787.34 in approved expenses) and City of New Orleans and St. John the Baptist Parish School Board (secondary applicants).

ROSTAN RELEVANT PAST PROJECTS



CITY OF SULPHUR, LA | PUBLIC ASSISTANCE RECOVERY PROJECT MANAGEMENT SERVICES | 2020 – PRESENT



Rostan is currently assisting the City of Sulphur to provide exigent grants management and technical assistance in the development of a comprehensive recovery strategy in the aftermath of Hurricanes Laura and Delta. Our team is helping the City conduct emergency damage assessments for all city buildings and also helping with Expedited Funding from FEMA and GOHSEP.

GRANT NAME	AWARD AMOUNT	SCOPE OF WORK	DATE
DR-4559	\$70M (Projected)	Public Assistance	2020–Present

Client Contact: Stacy Dowden, Public Works Director, 337-527-4500, sdowden@sulphur.org, 101 N Huntington St., Sulphur, LA 70663

WEST FELICIANA PARISH, LA | PUBLIC ASSISTANCE RECOVERY AND MITIGATION PROJECT MANAGEMENT SERVICES | 2018 – PRESENT



Rostan serves as the Project / Client Manager for program management services to West Feliciana Parish for all parish mitigation and public assistance recovery projects. Responsible for coordinating the project activities and serving as liaison among the client and subcontracting companies involved in primary basic engineering tasks including the hydraulic and hydrologic study. Additional responsibilities include data collection and dissemination for all tasks involved in the project as well as reporting to the state of Louisiana for record keeping, including state-required requests for reimbursement and quarterly reporting.

GRANT NAME	AWARD AMOUNT	SCOPE OF WORK	DATE
DR-1603 HMGP	\$4M	Streambank Stabilization	2015–Present
DR-4277 Public Assistance	\$5M	Bridge Replacements	2016–Present
DR-4277 HMGP	\$2M	Drainage and Lift Station Projects	2016–Present
DR-4462 Public Assistance	\$20M	Debris, Road Repairs Force Account Labor	2019–Present
DR-4484 COVID	TBD	Cat B Costs	2020–Present
DR-4559 Public Assistance	TBD	Force Account, Repairs, Debris	2020–Present

Client Contact: Kenny Havard, Parish President, 225-784-3647, khavard@wfparish.org, 5934 Commerce Street, St. Francisville, LA 70775

LA DEPARTMENT OF CORRECTIONS | LOUISIANA STATE PENITENTIARY | BATON ROUGE, LA
FEDERAL FUNDING AND FLOOD RECOVERY MITIGATION PROJECT SUPPORT | 2015–PRESENT



Since 2015, Rostan has been the Program Manager for the Louisiana State Penitentiary (Angola) to support all federal funding for Flood Recovery and Mitigation projects. Rostan was successful in its efforts to obtain funding for a \$10M pump station and generator facility for the prison, which replaced its existing and noncompliant facility. In addition, Rostan developed an engineered damage assessment to capture eligible damages that resulted in West Feliciana Parish being included in DR-4228 flood event, in which significant flooding occurred. As a result of the declaration, our team prepared detailed Project Worksheets (PWs) to mitigate damages incurred to Angola's main road corridors and chase roads inside the prison facility. The team ensured Angola was eligible to apply for and receive 406 Mitigation funding totaling over \$4M in mitigation road solutions.

GRANT NAME	AWARD AMOUNT	SCOPE OF WORK	DATE
DR-1603 HMGP	\$12.2M	Pump Station Retrofit; Bulkhead Stabilization and Weir Gate Replacement	2015–Present
DR-4228 Public Assistance	\$1M	Road Repairs to Chase Roads	2016–2018
DR-4462 Public Assistance	\$3M	Pump Repairs and Ferry Landing Road Repairs; Force Account Labor	2019–Present

Client Contact: Tammy Grant, CPPB, Finance Administrator, Louisiana Department of Corrections, State Penitentiary at Angola, 225-342-6578, TammyGrant@corrections.state.la.us, 504 Mayflower Street, Baton Rouge, LA 70802

MCNEESE STATE UNIVERSITY | PUBLIC ASSISTANCE RECOVERY
MANAGEMENT SERVICES | 2020–PRESENT



Rostan served as the Technical Team Lead for all damage assessments and Scope of Work Formulation services to interface with FP&C and McNeese throughout all phases of the initial recovery project. In summary, the Rostan team assessed over 137 University buildings in 8 days, and completed a re-assessment of all 137 buildings in 3 days due to Hurricane Delta additional damages. The Rostan team is leveraging FEMA reimbursement, insurance proceeds, CDBG, and other sources of funding for the recovery project as a partner to G.E.C. and McNeese. The Rostan team conducted and tracked field assessments of each building project designated by FP&C; developed a Project Report for each building project designated by ORM/FP&C and submitted the Project Report to FP&C and McNeese after field assessment were completed. Additionally, the Rostan team continues to provide FEMA programmatic expertise to the University

GRANT NAME	AWARD AMOUNT	SCOPE OF WORK	DATE
DR-4559	\$250M	Public Assistance	2020–Present

Client Contact: Richard Rhoden, Director of Facilities, McNeese State University, 337-475-5887, rrhoden@mcneese.edu, 4406 Common Street, Lake Charles, LA 70607

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Manish Mardia, P.E. Principal	
Project Assignment:	
Sr Construction Manager	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
10 (2011)	
Education: Degree(s)/Year/Specialization:	
M.S. in Civil Engineering, Louisiana State University B.S. in Civil Engineering, 1990, University of Jodhpur	
Active registration: Year first registered/discipline:	
Year First Registered: 1999 Discipline: <u>Environmental</u> State: <u>Louisiana</u> License No.: <u>28482</u> <i>Also registered in Mississippi (18522)</i>	
Other experiences and qualifications relevant to the proposed Project:	
<p>Manish Mardia is a registered professional civil and environmental engineer; and is the President of MSMM Engineering, LLC. He is an experienced engineering manager and principal with twenty-six (26) years of experience in managing and designing public works projects for Jefferson Parish, municipalities in the greater New Orleans area, and the United States Army Corps of Engineers (USACE). His experience includes drainage pump station evaluation and design, drainage evaluation, hydraulic modeling, levee design, T-wall design, roadway, and utility design.</p> <p>Mr. Mardia has worked <i>on more than 200 projects for various departments of Jefferson Parish</i>. These projects were successfully completed on time and schedule. Projects Mr. Mardia has designed and provided quality control on range from Master Plan Development, Drainage Pump Station Evaluation and Design, Drainage Evaluation and Modeling, Infiltration and Inflow Evaluation and Project Alternative Development; Water Treatment and Collection; Wastewater Collection, Distribution and Treatment; Street and Roadways Design; and Landfill Design and Permitting.</p> <p><u>Jefferson Parish Watershed Master Planning, Jefferson Parish, LA</u></p> <p>Through the Federal Silver Jackets Program at the USACE New Orleans District, MSMM is completing a detailed hydraulic analysis and watershed master planning document for Jefferson Parish. Utilizing the parish's existing SWMM models, MSMM adjusted input parameters for rising sea levels, changing storm patterns as projected in the NOAA Atlas 14 rain models, and changing development plans as projected in</p>	

the Jefferson Parish future land use plan. The output from this modeling effort was then quantified in terms of water surface elevation changes.

Utilizing modeling results, FEMA CRS guidance criteria, Jefferson Parish planning studies, input from the parish, and MSMM broad experience from previous drainage and flood studies; a series of recommended watershed management strategies were developed. These recommendations ranged from proposed implementation of standard low impact development principles, such as use of permeable pavements and bio-swales, to specific unique recommendations for Jefferson Parish watershed management regarding pump maintenance considerations, generation capacity and levee resiliency planning.

Mr. Mardia was the Quality Control Manager for this effort. He reviewed modeling outputs, the draft master plan document and compared the project deliverables with the scope of the task order and the needs of Jefferson Parish.

Coventry Court Drainage Evaluation Feasibility Report, Jefferson Parish, LA

In early 2017, following repetitive street flooding in the Coventry Court area of River Ridge, MSMM Engineering worked with the Jefferson Parish District 2 office to propose a solution to the flooding issues in the area. The MSMM engineering team identified several potential options that could be evaluated. In 2018, the Jefferson Parish Council tasked our staff with developing a multi-phase feasibility report to evaluate several drainage solutions in the area.

As part of the Coventry Court evaluation, the Jefferson Parish drainage department requested that MSMM investigate and determine the feasibility of providing improved drainage. The investigation consisted of the following:

- Evaluation Phase/Data Review – collection and analysis of existing information
- Field Reconnaissance and Preliminary Survey – collection of relevant field information
- Model Runs and Calibration – updated the HEC-RAS model with the area's data for 10-year, 50-year and 100-year storm events.
- Cost Estimating of Multiple Alternatives – provided detailed cost breakouts consisting of vendor furnished pricing data for materials
- Development of a Prioritized List of Recommendations – the alternatives developed were prioritized based on our engineering recommendations.

MSMM is the only entity to envision and develop the Coventry Court drainage pump station concept. The final report was completed in less than 6 months, and the final recommendation is to design a new drainage pump station on a vacant parcel owned by the parish between Coventry Court and Lee Court, westerly of Jefferson Highway. This 90 cfs (120 cfs ultimate) pump station with a 48' open cut discharge forcemain placed down Colonial Heights Road and over the Mississippi River levee. Other project features consist of a discharge dolphin in the Mississippi River and upsizing of the Jefferson Highway drainage crossings and downstream conveyance. This recommended alternative provides the greatest pumping capacity while requiring the least amount of permanent drainage servitudes.

Mr. Mardia was responsible for the overall QA/QC on this project. He worked with the administration and Councilman's office to identify a tangible project that would not only reduce drainage impacts in this River

Ridge neighborhood by completing a master drainage plan document and identifying an alternative that could fit within the available Parish funding.

Woodlake Estates/Seton Park Subdivision Drainage Pump Station, Jefferson Parish, LA

MSMM was tasked by the Jefferson Parish council to evaluate drainage pump station alternatives to solve the issue of long-term flooding in within the Woodlake and Seton Park neighborhoods within the City of Kenner. In 2018, MSMM completed a feasibility study that developed multiple drainage pump station alternatives which bypass the capacity limitations of the canals and alleviate stormwater flooding in the area. At the completion of the feasibility report, the following alternatives were identified:

- A new drainage pump station at the corner of Canal 17 and Canal 7 (west end of Joe Yenni Blvd.), a discharge forcemain westwards, with a discharge basin in the West Return Canal.
- A new drainage pump station at the northeast corner of Vintage Drive and Platt Street on Canal 17, a discharge forcemain westwards, with a discharge basin in the West Return Canal.
- A new inline drainage pump station at or near the corner of Canal 17 and Canal 7 with discharge into the canals and also with a discharge forcemain westwards to a discharge basin in the West Return Canal

Mr. Mardia provided the program management for the feasibility study. He led the team through the evaluation process that was based on the following considerations: Constructability, Hydraulic Modeling, Property Availability, Permit Concerns and Cost. The team decided that the inline station was the best solution, as it directly benefits the Woodlake Estates and Seton Park subdivisions as the 120 cfs pump station will be the new outlet, therefore no longer relying on the canal system. Following selection of the preferred alternative and final compilation of the report; MSMM submitted the final report to the Jefferson Parish drainage department and council in 2018, and were approved to develop an application to the DOTD Statewide Flood Control program for disaster assistance. The statewide flood control application was submitted in 2018; MSMM is currently awaiting the construction funding to initiate design.

New Orleans International Airport Drainage Pump Station, Kenner, LA.

MSMM recently completed full engineering design services for a new 600 cfs drainage pump station and for all landside drainage, as part of constructing the new airport terminal at the New Orleans International airport. The \$45 million of drainage mitigation design involved successfully delivering a true multi-disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HEC-HMS and HEC-RAS), architectural services, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination (USACE, CPRA, EJLD, SLFPA-E, LDNR, Entergy, City of New Orleans, City of Kenner, and Jefferson Parish). The station was designed to contain four 150 cfs pumps with 900 HP motors.

As part of the pump station design, MSMM tasks required successfully negotiating the challenge of discharging stormwater over a hurricane protection flood wall. Project tasks included: Coordinating with USACE to obtain approval to run more than 4,000 ft. of steel discharge pipes over the floodwall (required Section 408 permitting), developing detailed structural design calculations, design and drafting for several structural elements including sheet pile cutoff walls, sheet pile TRS system, scour protection, a reinforced

box culvert; as well as, coordination and permitting with the levee board and CPRA to secure the crucial clearances.

The landside drainage design effort required continuous close coordination with the program management team and design team to coordinate roadway drainage, terminal and apron design. This required extreme flexibility and adaptability to incorporate numerous changes to other designs into the drainage design via multiple hydraulic modeling exercises, and multiple pipe networking and sizing. More than 5 miles of drainage piping (size range of 15" to 72" diameter), open channels and box culverts were designed to route stormwater flow from the terminal to the discharge points.

Mr. Mardia served as the Program Manager for the project. His duties included: handling the sensitive issue of operation and control of the pump station. This sensitivity of this subject became apparent due to the separate and unique demands of multiple entities – Jefferson Parish, City of Kenner, and the airport. Mr. Mardia's vast experience with local drainage work, decades of relationships with local administrations and public works directors, and intimate knowledge of the Jefferson Parish drainage system was utilized to establish a path forward that was agreed to by all agencies. Mr. Mardia was responsible for ensuring the design produced by the MSMM team were in compliance with the Design Quality Review Plan, and met regularly with the client to ensure the MSMM design was consistent with the overall airport effort.

Clearview Drainage Pump Station, St. Peter's Ditch Improvements – Phase 4, Jefferson Parish, LA.

MSMM engineering staff provided complete design services for a 220 cfs drainage pump station located within the DOTD Right-of-Way of the Clearview Parkway/Earhart Expressway interchange. The goal of this pump station was to pump stormwater runoff from the existing detention pond network, over Cross Canal, and discharge directly into the improved St. Peter's Ditch (box culvert). The project required multiple disciplines including civil, structural, electrical and mechanical engineering, as well as, cost estimating and drafting (CAD). The pump station structure contained three 75 cfs vertical lift pumps with 250 HP motors and several hundred feet of 36" discharge piping. Additional features of the project included a pile supported reinforced concrete structure, sheetpile intake area, trash rake with conveyor, conditioned control building, generator, traffic detour plan, discharge pipe aerial canal crossing, utility relocations, and other related improvements.


Mr. Mardia was the program manager, he led the overall design effort and worked with Parish officials to identify the initial problem, making the design and implementation of this project a reality.

Statewide Flood Control Program Grant Drainage Improvements, Kenner, LA

LDOTD's Statewide Flood Control Program grant funding was utilized to undertake stormwater drainage system improvements to two neighborhoods (University City and Audubon Place Subdivisions). The estimated project cost was \$4.57 million, with a grant amount of \$2.7 million. The project was conducted from beginning to conclusion, which included preparing the grant pre-application package, coordinating with the City and LDOTD staff, conducting hydraulic and hydrologic analyses (HYDRWIN and SWMM), communicating with LDOTD experts on the project's feasibility and technical merit, conducting multiple site visits with LDOTD experts and project staff to clarify project features, existing drainage infrastructure, and facilitating continuous communication with the City's elected representatives about the status of grant process. Through the course of this project, excellent working relationship was forged with LDOTD's

SWFCP staff and experts. Significant coordination was required with LDOTD staff due to the unique drainage conditions in the New Orleans area and due to the SWMM models of the city's previous drainage master plan work required to be re-analyzed with LDOTD's HYDRWIN software. The project involved (i) installation of new subsurface drainage pipes and inlets along three city streets; (ii) upgrading of existing drainage features with larger subsurface pipes, inlets, and outfall pipe along three other city streets. The subsurface pipes ranged in size from small 18" diameter circular pipes to large 54"x88" arch pipes. Adjustment of sanitary sewer house connections, and numerous pavement restoration tasks were included in this project, as well. During this project continuous coordination with the DPW staff was required. Most of the drainage improvements under this project were derived from previously completed Master Drainage Plan, the new improvements were compared with the Master Drainage Plan to ensure that no conflicts arise.

Mr. Mardia served as the quality control manager for this project. He coordinated the drainage evaluation and design with DOTD, and reviewed the final P&S.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
	Jim Wilson, P.E. Civil Engineer
Project Assignment:	
	Sr Construction Manager
Name of Firm with which associated:	
	
Years' experience with this Firm:	
	8 (2013)
Education: Degree(s)/Year/Specialization:	
	B.S. in Civil Engineering, 1988, Michigan Technological University
Active registration: Year first registered/discipline:	
	Year First Registered: 1992 Discipline: <u>Civil</u> State: <u>Louisiana</u> License No.: <u>35456</u> <i>Also registered in Michigan (38800)</i>
Other experiences and qualifications relevant to the proposed Project:	
<p>Mr. Wilson is a senior civil/drainage engineer with over 25 years of experience in the public sector, successfully designing and managing drainage, roadway, sewerage, waterline, and site development projects in multiple jurisdictions of south Louisiana. Recently (between 2014 and 2019), Mr. Wilson designed and performed construction management for seven (7) drainage/pump station projects (Sauvé Road, Coventry Court feasibility analysis, New Orleans International Airport Drainage Pump Station, Sena Drive, Harahan Pump to the River, Hoey's Basin Pump to the River, and University City & Audubon Place Subdivisions), seven (7) roadway projects (Manhattan Boulevard, Lapalco Boulevard, Aubry Street, West End Neighborhood, Little Woods Neighborhood, Plum Orchard Neighborhood, and City Park neighborhood), five (5) sewer lift stations projects (Kennedy Heights, Hillaryville, East Baton Rouge, Chetta Drive, and Cooper/Wilber), and two (2) site improvement projects (Government Complex, and NOLA Motorsports Park), all in south Louisiana.</p> <p>Mr. Wilson was the designer of record for the Sauvé Road drainage pump station. He was also the civil engineer tasked with developing the alternatives for the Coventry Court project. Mr. Wilson has extensive design experience developing drainage improvement projects in Jefferson Parish. He is intimately familiar with the characteristics, existing infrastructure, and design practices required by Jefferson Parish. As a result of designing multiple projects in this area within a short period of time, Mr. Wilson has developed excellent working relationship with many of the local authorities having jurisdiction (AHJ) over the features, utilities, properties, and regulatory requirements in Jefferson Parish.</p> <p><u>Kenner Drainage Master Plan Development, Kenner, LA</u></p> <p>MSMM was responsible for updating the Kenner Drainage Master Plan through a combination of hydraulic modeling and alternatives analysis. As part of developing the Kenner Master Drainage plan project, our</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p style="text-align: center;">Jim Wilson, P.E. Civil Engineer</p>	
<p>staff characterized the drainage system via field inspections and Hydraulic Modeling utilizing the EPA SWWM. MSMM personnel were previously involved in developing drainage planning documents, inclusive of the City of Kenner Drainage Master Plan completed in April of 2010. Several of the projects identified in that plan were subsequently constructed. However, several drainage projects remained so this report was developed to prioritize recommended subsurface drainage improvement projects on a Council District based by identifying ten (10) highest priority project in each Council District.</p> <p>At the completion of this analysis, the City of Kenner received a compiled report that identified the highest priority projects, along with cost estimates, maps, and recommended drainage piping information. The recommended pipe sizing was based on a ten (10) year storm design standard. The Hydraulic Modeling for this Master Plan update was completed in a similar format to recent Hydraulic Modeling changes performed by Jefferson Parish. The result is a list of drainage projects that can compete for available funding.</p> <p>Mr. Wilson was the lead civil engineer on the project. He developed the project alternatives based on the modeling outputs, completed cost estimates for the alternatives and met with Kenner officials to explain the expected benefits from each alternative.</p> <p><u>Coventry Court Drainage Evaluation Feasibility Report, Jefferson Parish, LA</u></p> <p>In early 2017 and following repetitive street flooding in the Coventry Court area of River Ridge, MSMM Engineering worked with the Jefferson Parish District 2 office to propose a solution to the flooding issues in the area. The MSMM engineering team identified several potential options that could be evaluated, and in 2018 the Jefferson Parish Council tasked our staff with developing a multi-phase feasibility report to evaluate several drainage solutions in the area.</p> <p>As part of the Coventry Court evaluation, the Jefferson Parish drainage department requested that MSMM investigate and determine the feasibility of providing improved drainage. The investigation consisted of the following:</p> <ul style="list-style-type: none"> - Evaluation Phase/Data Review – collection and analysis of existing information - Field Reconnaissance and Preliminary Survey – collection of relevant field information - Model Runs and Calibration – updated the HEC-RAS model with the area’s data for 10-year, 50-year and 100-year storm events. - Cost Estimating of Multiple Alternatives – provided detailed cost breakouts consisting of vendor furnished pricing data for materials - Development of a Prioritized List of Recommendations – the alternatives developed were prioritized based on our engineering recommendations. <p>MSMM is the only entity to envision and develop the Coventry Court drainage pump station concept. The final report was completed in less than 6 months, and the final recommendation is to design a new drainage pump station on a vacant parcel owned by the parish between Coventry Court and Lee Court, westerly of</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p style="text-align: center;">Jim Wilson, P.E. Civil Engineer</p>	
<p>Jefferson Highway. This 90 cfs (120 cfs ultimate) pump station with a 48' open cut discharge forcemain placed down Colonial Heights Road and over the Mississippi River levee. Other project features consist of a discharge dolphin in the Mississippi River and upsizing of the Jefferson Highway drainage crossings and downstream conveyance. This recommended alternative provides the greatest pumping capacity, while requiring the least amount of permanent drainage servitudes.</p> <p>Mr. Wilson was the lead civil engineer for the project, he was tasked with working with the hydraulic modeler to develop project alternatives. The alternative developed by Mr. Wilson, and recommended for implementation for this project, consists of a 90 CFS pump station placed in the vacant Parish owned parcel between Coventry Court and Lee Court on the river side of Jefferson Highway. The pump station wet well and valve vault are sized to house four (4) pumps and valves for the ultimate pumping capacity of 120 CFS, but only three (3) pumps and valves would be installed initially as Levee View Drive and Hennessey Court would be considered a future service area. The pump station intake will be two 54" gravity sewer lines running parallel to Jefferson Highway and a 72" gravity sewer coming into the wet well from Jefferson Highway. The pump station would utilize three pumps with a single 48" forcemain to discharge storm water over the Mississippi River levee and into the river. The forcemain will be approximately 2,600 linear feet and terminate into a discharge dolphin structure in the Mississippi River. Mr. Wilson has provided conceptual plans for the entire project, outlined the permitting requirements and made sure the design aligns with the requirements for the Sauvé Road pump station layout.</p> <p><u>Sauvé Road Drainage Improvements, Jefferson Parish, LA.</u></p> <p>Mr. Wilson performed 100% of the planning, engineering phase services and construction phase services for the construction of a drainage pump station in the Sauvé Road neighborhood of Jefferson Parish, LA. Through a collaboration between the USACE New Orleans District and Jefferson Parish, the project resulted in the design and construction of a 60 cfs (27,000 gpm) drainage pumping station, 2600 linear feet of 30" and 36" discharge forcemains and 60" gravity drainage. At the time of construction, the project was considered a major accomplishment for the neighborhood, as the area was heavily flooded following Hurricane Katrina and subsequent storm events. To this date, this project has been viewed as one of the most successful post Katrina storm risk reduction measures constructed in Jefferson Parish, as the flooding impact on the neighborhood has been greatly diminished.</p> <p>Design and construction administration for subsurface drainage improvements to the Sauve Road and Jefferson Highway area consisting of the construction of a 40 cfs drainage pump station and force main discharging into the Mississippi River. The project also consisted of gravity line installations, any street work, and utility adjustments necessitated by the work.</p> <p><u>Aubry St. CDBG 10-year Storm Drainage Improvement and Roadway Construction, New Orleans, LA</u></p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jim Wilson, P.E. Civil Engineer
<p>Mr. Wilson was the designer of record for the design of drainage and concrete road reconstruction of Aubry Street in the Gentilly neighborhood of New Orleans. The project length is approximately 1,400 linear feet, a four-block design that serves as major thoroughfare during the annual Jazz Festival. Project details are as follows: Concrete Roadway Reconstruction, drainage design to meet a 10-year storm event, relocation of existing utilities, development of bid documentation, cost estimates, construction management, and resident inspection services.</p> <p>Mr. Wilson started his design in April of 2016, and the City of New Orleans requested an expedited design to allow the street to be open for the 2017 Jazz Festival. This was successfully designed and bid documentation was completed in time, as the construction finished in April of 2017, and the street was opened for the 2017 Jazz Festival.</p> <p><u>Statewide Flood Control Program Grant Drainage Improvements, Kenner, LA</u></p> <p>LDOTD's Statewide Flood Control Program grant funding was utilized to undertake stormwater drainage system improvements to two neighborhoods (University City and Audubon Place Subdivisions) in the city. The estimated project cost was \$4.57 million, with a grant amount of \$2.7 million. The project included preparing the grant pre-application package, coordinating with the City and LDOTD staff, conducting hydraulic and hydrologic analyses (HYDRWIN and SWMM), communicating with LDOTD experts on the project's feasibility and technical merit, conducting multiple site visits with LDOTD experts and project staff to clarify project features and existing drainage infrastructure, and facilitating continuous communication with the City's elected representatives about the status of grant process. Significant coordination was required with LDOTD staff due to the unique drainage conditions in the New Orleans area and due to the SWMM models of the city's previous drainage master plan work required to be re-analyzed with LDOTD's HYDRWIN software. The project involved (i) installation of new subsurface drainage pipes and inlets along three city streets; (ii) upgrading of existing drainage features with larger subsurface pipes, inlets, and outfall pipe along three other city streets. The subsurface pipes ranged in size from small 18" diameter circular pipes to large 54"x88" arch pipes. Adjustment of sanitary sewer house connections, and numerous pavement restoration tasks were included in this project as well. During this project continuous coordination with the DPW staff was required. Most of the drainage improvements under this project were derived from previously completed Master Drainage Plan, the new improvements were compared with the Master Drainage Plan to ensure that no conflicts arise.</p> <p>Mr. Wilson was the designer of record for the project. He worked with officials from DOTD and the City of Kenner during the design and construction phase of this project.</p> <p><u>New Orleans International Airport Drainage Pump Station, Kenner, LA.</u></p> <p>MSMM recently completed full engineering design services for a new 600 cfs drainage pump station and for all landside drainage, as part of constructing the new airport terminal at the New Orleans International airport. The \$45 million of drainage mitigation design involved successfully delivering a true multi-</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jim Wilson, P.E. Civil Engineer
<p>disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HEC-HMS and HEC-RAS), architectural services, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination (USACE, CPRA, EJLD, SLFPA-E, LDNR, Entergy, City of New Orleans, City of Kenner, and Jefferson Parish). The station was designed to contain four 150 cfs pumps with 900 HP motors.</p> <p>As part of the pump station design, MSMM tasks required successfully negotiating the challenge of discharging stormwater over a hurricane protection flood wall. Project tasks included: Coordinating with USACE to obtain approval to run more than 4,000 ft. of steel discharge pipes over the floodwall (required Section 408 permitting), developing detailed structural design calculations, design and drafting for several structural elements including sheet pile cutoff walls, sheet pile TRS system, scour protection, a reinforced box culvert; as well as, coordination and permitting with the levee board and CPRA to secure the crucial clearances.</p> <p>The landside drainage design effort required continuous close coordination with the program management team and design team to coordinate roadway drainage, terminal and apron design. This required extreme flexibility and adaptability to incorporate numerous changes to other designs into the drainage design via multiple hydraulic modeling exercises, and multiple pipe networking and sizing. More than 5 miles of drainage piping (size range of 15" to 72" diameter), open channels and box culverts were designed to route stormwater flow from the terminal to the discharge points.</p> <p>Mr. Wilson is the designer of record and engineering manager for the design of this pump station. He successfully led a multi-disciplinary team of design engineers, provided shop drawing review, and engineering during construction.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Scott Chehardy, P.E. Civil Engineer
Project Assignment:	Sr Construction Manager
Name of Firm with which associated:	
Years' experience with this Firm:	6 (2015)
Education: Degree(s)/Year/Specialization:	B.S. in Civil Engineering, 1994, University of Southwestern LA
Active registration: Year first registered/discipline:	Year First Registered: 1998 Discipline: <u>Civil</u> State: <u>Louisiana</u> License No.: <u>28532</u>
Other experiences and qualifications relevant to the proposed Project:	
<p>Mr. Chehardy has over two decades of civil design and hydraulic evaluation experience working on projects in Jefferson Parish. He has successfully completed the development of plans and specifications for pump stations and forcemains, roadways and bridges, levees and floodwalls, canals, and box culverts. He has been an integral part of the design efforts for several recent drainage pump station projects completed in Jefferson Parish, inclusive of the new 600 cfs drainage pump station at the New Orleans International Airport, improvements to Pump #4 at the Parish Line Pump Station, development of the new 22 cfs Clearview drainage pump station, and has been instrumental in helping identify conflicting utilities, running hydraulic calculations, and resizing subsurface drainage infrastructure during the development of the Coventry Court drainage pump station evaluation report. Mr. Chehardy's responsibilities have included project management, design, construction management, quality control, and permitting.</p> <p><u>South Kenner Pump to the River Feasibility Report, Kenner, LA</u></p> <p>MSMM provided key modeling and coordination roles for developing the South Kenner Pump to the River Feasibility Study. Examining the feasibility of the project gave our engineering staff the opportunity to assist Parish leadership in advancing a concept which has been considered a "no-go" strategy in previous studies. Utilizing a knowledge base of the storm drain system and the canal-pump station system that has been developed through years of working with Kenner and the Parish on drainage problems in the area, MSMM was able to leverage their knowledge base and analytical skills to develop a plan that resurrected the Pump to the River (PTR) concept as a viable strategy for decreasing flood stages over a broad area of Kenner and unincorporated Jefferson Parish.</p> <p>The modeling effort for this study involved analysis of the South Kenner EPA SWMM model and performing hydrology and hydraulic analyses utilizing the HEC-HMS and HEC-RAS models approved by FEMA and the Army Corps of Engineers. These models were used to identify runoff volume and storm flood stages expected</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:**

**Scott Chehardy, P.E.
Civil Engineer**

in the watershed of the Duncan Canal and Soniat Canal. The Harahan Pump-to-the-River system was added to the HEC-RAS “Jefferson East Bank HSDRRS Project Model” so the model would reflect the projected pump conditions that would exist when the Kenner PTR system would be brought online. Rigorous modeling efforts culminated in the finding that a significant area of flooding could be reduced by extending the conveyance system to the larger reach of the Duncan Canal. In terms of value as measured by the cost of canal and pump station per of volume of water removed from the system, the PTR system was found to provide significant economies because of the short distance of conveyance to the river when compared to the long distance and multiple constrictions involved in conveyance to Lake Ponchartrain.

Mr. Chehardy worked with the hydraulic modeling team to develop meaningful alternatives that would address the issues identified in the model. He also helped to develop the final modeling report, and developed cost estimates for each of the identified alternatives.

Woodlake Estates/Seton Park Subdivision Drainage Pump Station, Jefferson Parish, LA

MSMM was tasked by the Jefferson Parish council to evaluate drainage pump station alternatives to solve the issue of long-term flooding in within the Woodlake and Seton Park neighborhoods within the City of Kenner. In 2018, MSMM completed a feasibility study that developed multiple drainage pump station alternatives which bypass the capacity limitations of the canals and alleviate stormwater flooding in the area. At the completion of the feasibility report, the following alternatives were identified:

- A new drainage pump station at the corner of Canal 17 and Canal 7 (west end of Joe Yenni Blvd.), a discharge forcemain westwards, with a discharge basin in the West Return Canal.
- A new drainage pump station at the northeast corner of Vintage Drive and Platt Street on Canal 17, a discharge forcemain westwards, with a discharge basin in the West Return Canal.
- A new inline drainage pump station at or near the corner of Canal 17 and Canal 7 with discharge into the canals and with a discharge forcemain westwards to a discharge basin in the West Return Canal

Mr. Chehardy was the lead civil engineer for the project. His responsibilities included working with the hydraulic modeler to develop the pump station alternatives, working with pump manufacturers to properly size pumps for the conceptual design, developing cost estimates, and working on properly siting the alternatives. He was instrumental in deciding that the inline station was the best solution for the Parish, as it directly benefits the Woodlake Estates and Seton Park subdivisions. The 120 cfs pump station will be the new outlet, therefore no longer relying on the canal system. Following selection of the preferred alternative and final compilation of the report, MSMM submitted the final report to the Jefferson Parish drainage department and council in 2018; this was approved to develop an application to the DOTD Statewide Flood Control program for disaster assistance. Mr. Chehardy created and submitted the application in 2018, and MSMM is currently awaiting the construction funding to initiate design.

Clearview Drainage Pump Station, St. Peter’s Ditch Improvements – Phase 4, Jefferson Parish, LA.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Scott Chehardy, P.E. Civil Engineer
<p>MSMM engineering staff provided complete design services for a 220 cfs drainage pump station located within the DOTD Right-of-Way of the Clearview Parkway/Earhart Expressway interchange. The goal of this pump station was to pump stormwater runoff from the existing detention pond network, over Cross Canal, and discharge directly into the improved St. Peter's Ditch (box culvert). The project required multiple disciplines including civil, structural, electrical and mechanical engineering, as well as, cost estimating and drafting (CAD). The pump station structure contained three 75 cfs vertical lift pumps with 250 HP motors and several hundred feet of 36" discharge piping. Additional features of the project included a pile supported reinforced concrete structure, sheetpile intake area, trash rake with conveyor, conditioned control building, generator, traffic detour plan, discharge pipe aerial canal crossing, utility relocations, and other related improvements.</p> <p>Mr. Chehardy was the designer of record for the project; he prepared hydraulic pump calculations, designed the pumps, discharge piping, pump station structure, intake and site layouts, coordinated the design effort between all disciplines, developed quantity and cost estimates.</p> <p><u>Harahan Drainage Pump to the River, Jefferson Parish, LA.</u></p> <p>The project elements included a 700 ft. long suction canal, a 1,200 cfs pumping station, three 9,000 ft. long 84 inch diameter discharge pipes to the Mississippi River levee, Mississippi River levee crossing of discharge pipes, reinforced concrete discharge basin in Mississippi River, physical modeling, and surge analysis for the system. Mr. Chehardy was the lead Civil Engineer who prepared the Detailed Design Report (DDR) for the 625-foot long buried box culvert intake canal, 27,000-feet of 84" diameter discharge piping, levee structure crossing and discharge basin in the Mississippi River. The DDR was a comprehensive document that reviewed options and made final decisions for all aspects of the project, including 30% design drawings for the entire \$100+ million pump to the river project except the drainage pump station. The final project was divided into 6 phases.</p> <p>Mr. Chehardy prepared the final design and provided construction services for three of those phases which covered the discharge basin, levee crossing and 22,000-feet of 84" pipe. The projects required coordination with the Corps of Engineers, Entergy, East Jefferson Levee District, Jefferson Parish, City of Harahan, South Louisiana Flood Protection Authority LADOTD and the Coast Guard. In addition to the main features discussed, the project also included relocation of several Entergy transmission towers, numerous utility relocations, roadway design, traffic control plan for phased construction across Jefferson Highway, design of two small pump stations to drain the large pipes when not in use and cathodic protection.</p> <p><u>Jefferson Parish, Soniat Canal Drainage Improvements</u></p> <p>This was a federally funded project under the Southeast Louisiana Urban Flood Control (SELA) program that was co-funded by Jefferson Parish and the Corps of Engineers. The project involved improving drainage along the major north-south running drainage canal in Jefferson Parish via hydraulic studies, DDRs, design, geotechnical investigations, preparation of plans and specifications, construction management, and resident inspection. In the northern reaches, the canal capacity was increased from 3,000 to 5,200 cfs from Canal No.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Scott Chehardy, P.E. Civil Engineer
<p>3 to West Napoleon Avenue. This involved designs for u-shaped concrete flumes, utility relocations, bridges, and sheet piling transitions. The estimated final construction cost was approximately \$155 million.</p> <p>Due to the size and complexity of the project, as well as, its location within heavy traffic areas and dense urban residential areas, this project was divided into seven separate bid packages as identified below:</p> <ol style="list-style-type: none">1. <i>Canal No. 3 to Veterans Memorial Boulevard</i> – approx. 750 ft in length, lined with concrete flume2. <i>Veterans Memorial Boulevard vehicular bridge replacement</i> – approx. 300 ft in length with three box culverts (each 18'H x 36'W)3. <i>Veterans Memorial Boulevard to West Napoleon Boulevard</i> – approx. 3,500 ft total length, lined with concrete flume4. <i>West Napoleon Avenue vehicular bridge replacement</i> – approx. 400 ft in length5. <i>West Napoleon Avenue to Lynette Drive</i> – approx. 1,100 ft long, lined with concrete flume.6. <i>Lynette Drive to Lester Street</i> – approx. 2,900 ft long, lined with concrete flume.7. <i>West Metairie Avenue to Lester Ave and Crossing</i> – approx. 400 ft long lined with concrete flume, rip rap transition and new vehicular bridge. <p>Mr. Chehardy was the designer or record for multiple phases of this project. He was responsible for designing all civil elements of the project, for coordination with Parish officials, permitting, and engineering during construction.</p> <p><u>New Orleans International Airport Drainage Pump Station, Kenner, LA</u></p> <p>Complete design services for a new 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal in the New Orleans International airport. The pump station will add 600 cfs of capacity to Jefferson Parish east bank's current capacity of 19,935 cfs. Project accomplishments included envisioning, assessing and designing this important addition to the region's flood protection abilities, delivering on a true multi-disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HECHMS and HEC-RAS), architectural services, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination (COE, CPRA, EJLD, SLFPA-E, LDNR, Entergy, City of New Orleans, City of Kenner, and Jefferson Parish). The station was designed to contain four 150 cfs pumps with 900 HP motors and 60" discharge pipes of more than 4,000 ft. combined run.</p> <p>The structural design involved slab and piles for station, generator, fuel tanks and control building, sheet pile cutoff walls, temporary steel sheet pile TRS system, removal and replacement of floodwall monolith and scour protection, buttress, pipe bents, cofferdam, walers, intake channel, reinforced concrete box culvert, discharge pipe supports, pipe sleeves in floodwall, and discharge basin in West Return Canal.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
	<p style="text-align: center;">Scott Chehardy, P.E. Civil Engineer</p>
<p>Mr. Chehardy conducted hydraulic calculations, designed pumps and forcemain, developed quantity and cost estimates, reviewed shop drawings, observed manufacture, testing of pump station automated bar screens, and responded to multiple requests for information (RFI).</p>	

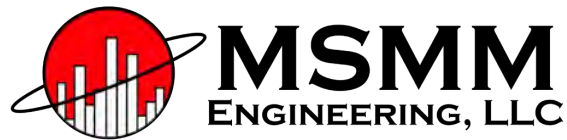
KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	David S. Shulman, CCM
Project Assignment:	Sr Construction Manager
Name of Firm with which associated:	
Years' experience with this Firm:	1
Education: Degree(s)/Year/Specialization:	BS, Construction Management MINOR Business Administration, Louisiana State University 2009
Active registration: Year first registered/discipline:	
Other experiences and qualifications relevant to the proposed Project:	
<p>Mr. Shulman as part of the \$2.4 billion FEMA Joint Infrastructure Program with the City of New Orleans and the S&WB, Mr. Shulman has been responsible for: Hiring and managing a growing team of construction project managers, project managers, program analysts, administrative assistants, and project manager supervisors; providing administrative and constructability technical oversight of project development to ensure project quality, schedule, and budget are met; developing and leading new construction administration communication and documentation tools and protocols for organization-wide implementation; conceptualizing and developing solutions for project issue resolution; providing documentation for design and construction quality assurance; preparation and presentation of program and project status reports; managing contracts, budgets and claims in support of program management activities; performing cost reasonableness analyses for contractor change order requests; conducting progress meetings; preparing field work directives; reviewing daily reports prepared by inspectors; reviewing record drawing provided by contractors; processing submittals, RFIs and other project documentation; reviewing and approving consultant and construction pay applications; updating program schedules and budgets; ensuring maintenance of and providing federal grant program documentation; responsible for close communication and coordination with CNO Department of Public Works and CNO Public Outreach teams, including the New Orleans City Council; managing consultant design engineers and project inspectors during design, construction, and closeout phases; and ensuring all internal and external stakeholders are kept informed of all project progress, problems, and resolutions.</p> <p>Relevant projects Mr. Shulman has worked on over the years include:</p> <p><u>Florida Avenue Canal Phases II/III</u> Construction of over 2500LF of reinforced concrete flume and box culvert, including timber, concrete, and H-Pile installation foundation jet grouting, sheet pile installation, and temporary retaining structure construction;</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	David S. Shulman, CCM
<p>large-diameter water transmission and sewer force main relocations; water distribution, sewer collection, drainage, gas, electrical, and communication utility relocations; maintenance and diversion of storm water; and roadway reconstruction.</p> <p><u>Orleans Parish Stormproofing of Drainage Pump Station No. 7 & N.O. S&WB Power Complex</u> Extensive masonry building modifications and enhancements with a complex, 12-megawatt backup power generation system installation for added hurricane protection. Included historic masonry reinforcement and injection grouting, full roof system replacement, window and door replacements, and flood proofing.</p> <p><u>Joint Infrastructure Recovery Request (JIRR)</u> Massive capital improvement program for the City of New Orleans and the S&WB to replace damaged water, sewer, drainage, and roadway infrastructure across all of Orleans Parish as part of the 2012 settlement reached between FEMA, the City of New Orleans, and the S&WB of New Orleans. Includes more than 200 individual projects ranging in construction value from \$1 million to over \$30 million on an accelerated timeline for completion.</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Joshua Carson Project Manager
Project Assignment:	Sr Construction Manager
Name of Firm with which associated:	
Years' experience with this Firm:	6 (2014)
Education: Degree(s)/Year/Specialization:	B.S. in Biology, 2007, Baldwin-Wallace University M.S. in Environmental Policy, 2011, Johns Hopkins University
Active registration: Year first registered/discipline:	
Other experiences and qualifications relevant to the proposed Project:	
<p>Mr. Carson worked as an in-house consultant and Project Manager for the Corps of Engineers (New Orleans District) on multiple Federal projects including storm risk reduction, navigation, coastal restoration and recreation. Mr. Carson's role at the New Orleans District was to manage projects from project initiation through the planning and construction phases. Mr. Carson's position responsibilities included tasks typical of a project manager, such as, briefing senior level personnel, managing project delivery team members to execute project milestones, and relaying critical project information to sponsors, interested parties and the public. He was tasked for meeting legislative and organizational deadlines and to deliver projects on-time and under budget. Mr. Carson executed multiple environmental projects while at the Corps, including projects that required extensive environmental permitting and NEPA clearances.</p> <p>At MSMM, Mr. Carson has served as a project manager and environmental permitting coordinator. He is responsible for being a liaison between the clients, engineering teams, and is often tasked with briefing the public or client about the project design. Mr. Carson serves as the lead project manager for all MSMM tasks completed in Jefferson Parish.</p> <p><u>Coventry Court Drainage Evaluation Feasibility Report, Jefferson Parish, LA</u></p> <p>In early 2017, following repetitive street flooding in the Coventry Court area of River Ridge, MSMM Engineering worked with the Jefferson Parish District 2 office to propose a solution to the flooding issues in the area. The MSMM engineering team identified several potential options that could be evaluated. In 2018, the Jefferson Parish Council tasked our staff with developing a multi-phase feasibility report to evaluate several drainage solutions in the area.</p> <p>As part of the Coventry Court evaluation, the Jefferson Parish drainage department requested that MSMM investigate and determine the feasibility of providing improved drainage. The investigation consisted of the following:</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p style="text-align: center;">Joshua Carson Project Manager</p>	
<ul style="list-style-type: none"> - Evaluation Phase/Data Review – collection and analysis of existing information - Field Reconnaissance and Preliminary Survey – collection of relevant field information - Model Runs and Calibration – updated the HEC-RAS model with the area’s data for 10-year, 50-year and 100-year storm events. - Cost Estimating of Multiple Alternatives – provided detailed cost breakouts consisting of vendor furnished pricing data for materials - Development of a Prioritized List of Recommendations – the alternatives developed were prioritized based on our engineering recommendations. 	
<p>MSMM is the only entity to envision and develop the Coventry Court drainage pump station concept. The final report was completed in less than 6 months, and the final recommendation is to design a new drainage pump station on a vacant parcel owned by the parish between Coventry Court and Lee Court, westerly of Jefferson Highway. This 90 cfs (120 cfs ultimate) pump station with a 48’ open cut discharge forcemain placed down Colonial Heights Road and over the Mississippi River levee. Other project features consist of a discharge dolphin in the Mississippi River and upsizing of the Jefferson Highway drainage crossings and downstream conveyance. This recommended alternative provides the greatest pumping capacity while requiring the least amount of permanent drainage servitudes.</p>	
<p>Mr. Carson was instrumental in working with the councilman’s office to understand the flooding issues plaguing the Coventry Court area. He worked with the councilman’s office to gain an understanding of the project focus and goals. He worked with the MSMM engineering team to relay the intended results of the feasibility study. He was involved in reviewing and briefing the results of the feasibility study; working with the councilman’s office to finalize siting of the intended pump station on Parish owned land.</p>	
<p><u>Woodlake Estates/Seton Park Subdivision Drainage Pump Station, Jefferson Parish, LA</u></p>	
<p>MSMM was tasked by the Jefferson Parish council to evaluate drainage pump station alternatives to solve the issue of long-term flooding in within the Woodlake and Seton Park neighborhoods within the City of Kenner. In 2018, MSMM completed a feasibility study that developed multiple drainage pump station alternatives which bypass the capacity limitations of the canals and alleviate stormwater flooding in the area. At the completion of the feasibility report, the following alternatives were identified:</p>	
<ul style="list-style-type: none"> - A new drainage pump station at the corner of Canal 17 and Canal 7 (west end of Joe Yenni Blvd.), a discharge forcemain westwards, with a discharge basin in the West Return Canal. - A new drainage pump station at the northeast corner of Vintage Drive and Platt Street on Canal 17, a discharge forcemain westwards, with a discharge basin in the West Return Canal. - A new inline drainage pump station at or near the corner of Canal 17 and Canal 7 with discharge into the canals and also with a discharge forcemain westwards to a discharge basin in the West Return Canal 	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p style="text-align: center;">Joshua Carson Project Manager</p>	
<p>Mr. Carson was involved in working with the Councilman's office to develop the concept of providing a drainage pump station in the Woodlake/Seton Park area. Mr. Carson was tasked with leading the feasibility study, for briefing the project alternatives and preferred plan. Mr. Carson also oversaw the development of the application for the Statewide Flood control program.</p> <p><u>Cow Bayou Drainage Pump Station Complex, Orange, TX</u></p> <p>MSMM is currently designing an 8,190 cfs drainage pump station in Orange County Texas as part of the Sabine Pass to Galveston Bay Texas Coastal Storm Risk Management and Ecosystem Restoration project. MSMM is responsible for all design activities for the features of work associated with the Sabine to Galveston, Cow Bayou Complex. The Cow Bayou Complex includes the design efforts for tie-in levee's, transition floodwall tying the floodwall into the levee section, multiple T-wall monoliths (both straight and P.I. monoliths), Drainage Structures (sluice gate structures & culverts through the floodwall) that are used to maintain flows of existing bayous, horizontal and vertical lift gates, a sector gate monolith for navigational traffic, and the 8190 cfs pumping station. This project is being designed for the USACE New Orleans and Galveston Districts. MSMM was hand selected by USACE to design this project, based on recent drainage pump station design experience in the greater New Orleans area.</p> <p>Mr. Carson is the lead project manager for the MSMM tasks associated with this project. He is responsible for working with the USACE PDT to determine scope and schedule, for managing the MSMM engineering team, and for the development of briefing materials to senior leaders at USACE and the non-Federal partners.</p>	



PROJECT EXPERIENCE

Jefferson Parish Emergency Engineering Analysis of Sewer Pump Stations Damaged by Hurricane Katrina In the wake of Hurricane Katrina's devastation on August 29, 2005, Jefferson Parish suffered significant loss to its infrastructure. Continued operability of the sewer pump stations was one of the most lingering issues to hinder the recovery effort. Multiple MSMM employees were part of the team sought by the Parish to analyze its sewer lift stations for emergency power generation capabilities and requirements. The overall team assessed 490+ sewer lift stations to collect field data and determine (1) current emergency power generation and station operation capability in disaster events and (2) methods to equip the critical sewer lift stations with emergency power generation and full functionality in future disaster events. The final database was utilized by the team's electrical engineers and civil engineers to size emergency generators for critical stations, determine backup power outlet requirements for applicable stations, prepare rough sketches of site layouts, prepare hierarchy of service area stations for prioritized generator placement in cases of shared generators among multiple stations, and develop opinions of probable costs for the above actions.



Hurricane Damage Assessment and Mitigation Measures for Council District 4, Jefferson Parish, LA

\$1.2 Million project to raise essential drainage pump station equipment above anticipated surge elevation, extend engine exhaust stacks and increase fuel capacity at existing drainage pump stations.

Firm responsibility included design, construction management and resident inspection.



Design of FEMA Trailers, Multiple Locations, LA

MSMM personnel contracted with Shaw Environmental & Infrastructure to design trailer parks for residents who had lost their homes to Hurricane Katrina. The initial trailer parks had a rigorous design schedule of 5 days to complete construction documents. This included a sit-down review at 50% and 95% submittals with the program managers and USACE to perform plan review and generate comments in an expedited face to face manner. This design team did the Winn Dixie/Cultural Arts Center Site in New Orleans and Grand Isle State Park Site in Grand Isle

Emergency Damage Assessment of Infrastructure, City of Picayune, MS

Immediately following the devastation of Hurricane Katrina in August 2005, team members provided engineering expertise to conduct a comprehensive assessment of impacts of the storm to the City's wastewater infrastructure (93 lift stations and WWTP), City Hall and other public facilities. The infrastructure was assessed in detail with written and photographic records in the field followed by formal report preparation in the office. HEI conducted the emergency assessment per FEMA requirements to facilitate Federal cost reimbursement of approximately \$7 million.

City of Kenner Emergency Preliminary Engineering of Sewer Infrastructure Damaged Due to Hurricane Katrina

Following Hurricane Katrina, the City of Kenner suffered significant loss to its sewer infrastructure. The City was faced with the daunting task of returning the entire sewer system (two WWTP facilities and seventy-four lift stations) to an operating condition so that residents could be allowed to return to the area. Team members were involved with assisting the City to assess damage, develop repair costs and organize information in preparation and anticipation of reimbursement from the Federal Emergency Management Agency (FEMA) for many of the costs.



St Bernard Parish, FEMA Emergency Lift Station Repair

In the wake of Hurricane Katrina's devastation on August 29, 2005, St. Bernard Parish suffered significant loss to its infrastructure. The residents were without the services of basic utilities such as water, sewer and power for many months or more following the landfall of the hurricane. Continued operability of the sewer pump stations was one of the most lingering issues to hinder this recovery effort.

Firm responsibility: MSMM personnel designed the repairs for eleven sewer lift stations. The team visited each site, documented pump station conditions, electrical service ratings, control panel conditions, stations that had flooded, control panels that had flooded and dry pits that had flooded. The repair costs specified in the FEMA project worksheets were analyzed and the cost estimates were updated to reflect more accurate costs that are being found in current repair projects. Once the updated cost estimates were approved, the stations were designed and MSMM personnel provided CM and RI services.



New Orleans International Airport Drainage Pump Station, Kenner, LA

MSMM recently completed full engineering design services for a new 600 cfs stormwater drainage pump station (four 150 cfs pumps, each 44" w/ 800 HP Driver) and for all landside drainage as part of constructing a new terminal at the New Orleans Airport.

Firm responsibility: Performed full engineering design services spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HEC-HMS and HEC-RAS), architectural services, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination.

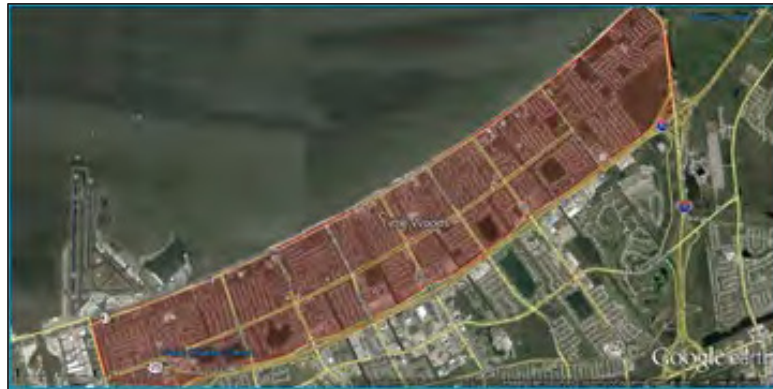


TITLE AND LOCATION <i>(City and State)</i>		YEAR COMPLETED	
Little Woods Neighborhood FEMA Recovery Roads Repair, New Orleans, LA		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2019 (Expected)	2020 (Anticipated)
PROJECT OWNER	POINT OF CONTACT		TELEPHONE NUMBER
City of New Orleans Department of Public Works	Gabriel Morejon, Project Manager		(504) 658-8009
BRIEF DESCRIPTION OF PROJECT			

MSMM Engineering is currently performing 100% of the design and construction administration for the FEMA funded roadway repairs within the Little Woods neighborhood of New Orleans. The Little Woods neighborhood is the largest neighborhood within the City and the current estimated cost of the roadway, sewerage, water and drainage repairs is \$18M.

MSMM services for the project consist of engineering and design for multiple project features that fall within the boundaries of the Capital Improvement program. Features currently under design include roadway pavement mill and overlay, isolated patching, complete roadway replacement, ADA compliance ramps at intersections, traffic engineering for intersections, crosswalks, curb and gutter, adjustment and re-framing of manholes, and the design of brand new sub-surface utilities inclusive of sewerage lines, water lines and drainage infrastructure. MSMM is also tasked with keeping a robust cost estimating spreadsheet for FEMA approval. The spreadsheet is used to attach each design element to an approved damage in the FEMA Project Worksheet. Construction is estimated to start in April 2019 and MSMM will perform construction management and resident inspection services.

Professional Service Highlights
<ul style="list-style-type: none"> - 100% performed by MSMM - Roadway Design For a Neighborhood - \$18M - FEMA Cost Estimating Worksheet - Sewer, Water and Drainage Design In Addition to Multiple Roadway Types Fee: \$1.3M



FIRM NAME	FIRM LOCATION (<i>City and State</i>)	ROLE
MSMM Engineering, LLC (Prime)	New Orleans, LA	Civil Design for Roadway Repairs/Replacement

TITLE AND LOCATION <i>(City and State)</i>		YEAR COMPLETED	
Lower 9 th Ward NW Group D (RR111) Neighborhood Design Project, New Orleans, LA		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2020	2022 (anticipated)
PROJECT OWNER City of New Orleans – Department of Public Works	POINT OF CONTACT Brian Fontaine, Senior Project Manager, bfontaine@nola.gov		TELEPHONE NUMBER (504) 316-7697
BRIEF DESCRIPTION OF PROJECT			

MSMM is currently performing 100% of the design engineering services for this roadway reconstruction project in the Lower 9th Ward. The project consists of a 16-block grid of full roadway reconstruction with the addition of curbs. Design services completed by MSMM consist of roadway pavement with curbs, subsurface and surface drainage, water and sanitary sewer installation adjustments, adjustments to driveways, installation of ramps for the handicapped, final grades compatible with adjacent properties to ensure the positive flow of water toward catch basins, and compliance with the City's General Specifications for Street Paving.

Professional Service Highlights

- 100% performed by MSMM
- Design to the City's General Specs for Roadway Paving
- Full Depth Reconstruction
- Sewer, Water and Drainage Design in Addition to Multiple Roadway Types
- Fee: \$531,000

To date, MSMM has prepared and provided final construction plans, specifications, drawings, bid documents and construction cost estimates conforming with the City's plan-in hand comments. These plans were stamped by Mr. Jim Wilson, a Louisiana registered Civil Engineer. The next MSMM responsibilities will be attending and participating in a pre-bid and pre-construction conference and performing the required Construction Management services. Construction of this project could start in the Spring of 2021 and be finalized in the Spring of 2022.



FIRM NAME	FIRM LOCATION (<i>City and State</i>)	ROLE
MSMM Engineering, LLC	New Orleans, LA	Prime - Civil Design for Roadway Repairs/Replacement



TITLE AND LOCATION (<i>City and State</i>)		YEAR COMPLETED	
Lower 9th Ward South Group E (RR115) Full Reconstruction Design Project, New Orleans, LA		PROFESSIONAL SERVICES 2020	CONSTRUCTION (<i>If applicable</i>) 2022 (anticipated)
PROJECT OWNER City of New Orleans – Department of Public Works	POINT OF CONTACT Mohanad Abdelfattah, Project Manager, mohanad.abdelfattah@nola.gov	TELEPHONE NUMBER (504) 316-7697	

BRIEF DESCRIPTION OF PROJECT

MSMM Engineering is currently performing 100% of the design services for this roadway reconstruction project in the Lower 9th Ward. The project consists of a 20 blocks of full roadway reconstruction and patch mill overlay with the addition of curbs.

Design engineering services completed by MSMM consist of roadway pavement with curbs, subsurface and surface drainage, water and sanitary sewer installation adjustments, adjustments to driveways, installation of ramps for the handicapped, final grades compatible with adjacent properties to ensure the positive flow of water toward catch basins, and compliance with the City's General Specifications for Street Paving.



To date, MSMM has prepared and provided final construction plans, specifications, drawings, bid documents and construction cost estimates conforming with the City's plan-in hand comments. These plans were stamped by Mr. Jim Wilson, a Louisiana registered Civil Engineer. MSMM is currently in the process of finalizing the submission of a USACE permit due to 3 blocks of the project falling within the required permitting distance from a Federal levee. Following the permitting process, MSMM will participate in the bidding phase, and we will provide Construction phase services. Construction of the project could start in the Spring of 2021 and be finalized in the Spring of 2022.

Project Highlights
<ul style="list-style-type: none"> - 100% performed by MSMM - Design to the City's General Specs for Roadway Paving - Full Depth Reconstruction - Sewer, Water and Drainage Design in Addition to Multiple Roadway Types - Fee: \$683,000

FIRM NAME	FIRM LOCATION (<i>City and State</i>)	ROLE
MSMM Engineering, LLC	New Orleans, LA	Prime - Civil Design for Roadway Repairs/Replacement



TITLE AND LOCATION (<i>City and State</i>)		YEAR COMPLETED	
New Orleans Drainage System Analysis New Orleans, LA		PROFESSIONAL SERVICES 2014	CONSTRUCTION (<i>If applicable</i>) NA
PROJECT OWNER City of New Orleans Public Works Department	POINT OF CONTACT James R. Kapesis Project Manager		TELEPHONE NUMBER (504) 329-9265

BRIEF DESCRIPTION OF PROJECT

MSMM is intimately familiar with a majority of the existing subsurface drain lines in New Orleans by virtue of performing field QA/QC (inspection, measurement, assessment, record keeping and reporting) of more than 1,700 segments and close to 250,000 linear feet (47 miles). This is a part of the city's drainage system engineering assessment project.

MSMM provided field monitoring, QA/QC, verification, recording and reporting of drainage system cleaning and televising activities throughout the City of New Orleans. MSMM crew engaged the CCTV operators on work performed, covered the work of multiple CCTV crews on a daily basis, measured selected line segments by wheel, and completed Field QA/QC reports for each line segment. The reports and image recording were completed on a daily basis and were submitted to the client on a weekly basis, while a monthly summary was provided as well. This work required close communication with the CCTV operators since multiple crews were operating on the same day and at different locations. As well, any Critical Damage item discovered during the work was recorded and reported to the client on an urgent basis. The purpose of this project is to determine if any Hurricane Katrina-related damage to the City's minor drainage system exists.



FIRM NAME	FIRM LOCATION (<i>City and State</i>)	ROLE
MSMM Engineering, LLC (Sub)	New Orleans, LA	Field QA/QC (Inspection, Measurement, Assessment, Record Keeping and Reporting)

TITLE AND LOCATION (<i>City and State</i>)		YEAR COMPLETED	
Periodic Inspections & Safety Analyses of Flood Control Structures – Levees, Dikes, Locks, and Dams, New Orleans, Louisiana		PROFESSIONAL SERVICES 2008-2014	CONSTRUCTION (<i>If applicable</i>) N/A
PROJECT OWNER	POINT OF CONTACT	TELEPHONE NUMBER	
USACE - New Orleans District	Richard Varuso, PhD, PE	(504) 862-2984	

BRIEF DESCRIPTION OF PROJECT

The USACE, New Orleans District, maintains and operates Flood Risk Management Structures that include Flood Control structures and miles of Flood Protection Levee & Dike systems in Southeastern Louisiana along the Mississippi River and the Gulf Coast. These systems comprise of Flood Water Diversion Structures, Locks, Sector Gates, Earthen Levees, Dikes and Dams. In existence for over 50 years, these structures are instrumented to observe and monitor various distresses that they are subjected to.



The objective of this scope was to review the as constructed design criteria of the systems, compare them with current Risk Based Design Criteria and report the deficiencies, perform Periodic Inspections of the systems including the Geotechnical, Hydrologic, Structural, Civil, Electrical & Mechanical aspects. The inspection reports list the findings by Priority of Risk of Failure.



Evaluation of the systems are based on (1) Surveyed Instrumentation Data (Settlement & Alignment Reference Markers, Piezometers, Scour, etc.), (2) Identifying long term and short term distresses, (3) Performing field inspections to document any observed distresses, and (4) Generate reports that include a Risk Based Analysis of Current versus As-built Design Criteria. The inspections help ensure operational integrity of the structures and also to identify the required maintenance and repairs to avoid partial or total failure. The necessary tasks to achieve the objective of this contract are described below.



MSMM engineering personnel, as part of an inspection team, were involved in the comprehensive periodic inspections on the following systems:

- 1) Locks: Berwick, Dupre, Bienvenue, Calcasieu, Calumet E&W, Port Allen, IHNC, Algiers, Harvey.*
- 2) Diversion Structures: Davis Pond Fresh Water & Pumping Station.*
- 3) Dams: Old River Complex (Low Sill, Auxiliary, Overbank).*
- 4) Levees, Dikes, Floodwalls (400 miles in all): Above Old River, Atchafalaya Basin, Metro New Orleans.*



Project Challenges


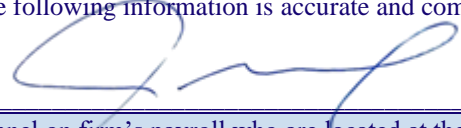
- " Accessibility of structures (by Foot, Boat, Specialized Vehicles).*
- " Gathering Survey Data of the Instrumentation.*
- " Evaluating Design Criteria with minimal available as-built information.*

FIRM NAME	FIRM LOCATION (<i>City and State</i>)	ROLE
MSMM Engineering, LLC	New Orleans, LA	Geotechnical; Structural; Cost Estimating

STANDARD FORM: SJB-1000

(6/2020)

Professional Engineering and Related Services

1. Project title EMERGENCY REQUEST FOR QUALIFICATIONS (RFQ) Hurricane Ida Disaster Recovery Damage Assessment and A/E Services		2. Project number RFQ.2021.1	
3a. Firm (as registered with the Louisiana Secretary of State) and mailing address of the office to perform work  Hartman Engineering, Inc. <i>Consulting Engineers</i> 527 W. Esplanade Ave. Suite 300 Kenner, LA 70065 (504) 466-5667 (504) 466-6166 (fax)		3b. Name, title, telephone number, and e-mail address of the official with signing authority for this contract Jared B. Monceaux, P.E. President tel: (504) 466-5667 • fax: (504) 466-6166 jmonceaux@harteng.com 3c. Name, Title, telephone number, e-mail address and registration number of full-time LA licensed engineer in responsible charge of the project (not required for non-engineering projects) Jared B. Monceaux, P.E., President Louisiana License No. 32202 tel: (504) 466-5667 • fax: (504) 466-6166 <u>jmonceaux@harteng.com</u>	
3d. I certify that the following information is accurate and complete to the best of my knowledge (must be same person as 3b): <div style="display: flex; justify-content: space-between;"> <div>Signature: </div> <div>Date: <u>9/24/2021</u></div> </div>			
4. Full-time personnel on firm's payroll who are located at the primary work location identified in 3a above:			
a. Civil Engineers, with current Louisiana P.E. registration b. Environmental Engineers, with current Louisiana P.E. registration (not included in 4a) c. Land Surveyors, with current Louisiana P.L.S. registration d. Engineers In Training, with current Louisiana E.I. registration e. Designers/Draftsmen f. Survey Party Chiefs g. Real Estate Professionals (Agents and Certified Appraisers) h. Other personnel not included in above categories* <i>*Admin. (2); Inspectors (2); WW Spec. (1)</i> Total personnel at primary work location (sum of a – h)		<div style="text-align: right;"> <u>6</u> <u>2</u> <u>2</u> <u>2</u> <u>5</u> <u>17</u> </div>	
5. Full-time personnel on firm's payroll, not located at the primary work locations, to be used on this project:			
a. Civil Engineers b. Environmental Engineers (not included in 5a) c. Land Surveyors, with current Louisiana P.L.S. registration d. Engineers In Training, with current Louisiana E.I. registration e. Designers/Draftsmen f. Survey Party Chiefs g. Real Estate Professionals (Agents and Certified Appraisers) h. Other personnel not included in above categories Total personnel not located at the primary work location (sum of a – h)		<div style="text-align: right;"> </div>	

6. Do you presently have sufficient staff to perform these services in the designated time frame? **(Yes/No)**

7. Identify the element of work (as defined in the advertisement), and the % of the element to be performed by the firm.

RFQ SCOPE

As a result of Hurricane Ida on August 29, 2021, St. John the Baptist Parish Sheriff's Office suffered extensive damage to several of its public buildings, contents and other facilities infrastructure which are covered by Category E of FEMA's Public Assistance grant program. The purpose of this Emergency Request for Qualifications (RFQ) is to procure one Architectural/Engineering firm registered in the State of Louisiana to provide A/E services, including disaster recovery assessment as well as planning, designing and preparing plans and specifications and providing subsequent contract administration services as required for the rehabilitation of those damaged public structures covered by Category E of FEMA's Public Assistance grant program. The Sheriff Office wishes to hereby solicit the submittal of Requests for Qualifications (RFQs) from those firms interested in and qualified to fulfill those professional services.

SEE PRIME FOR % OF THE ELEMENT TO BE PERFORMED BY THE FIRMS.

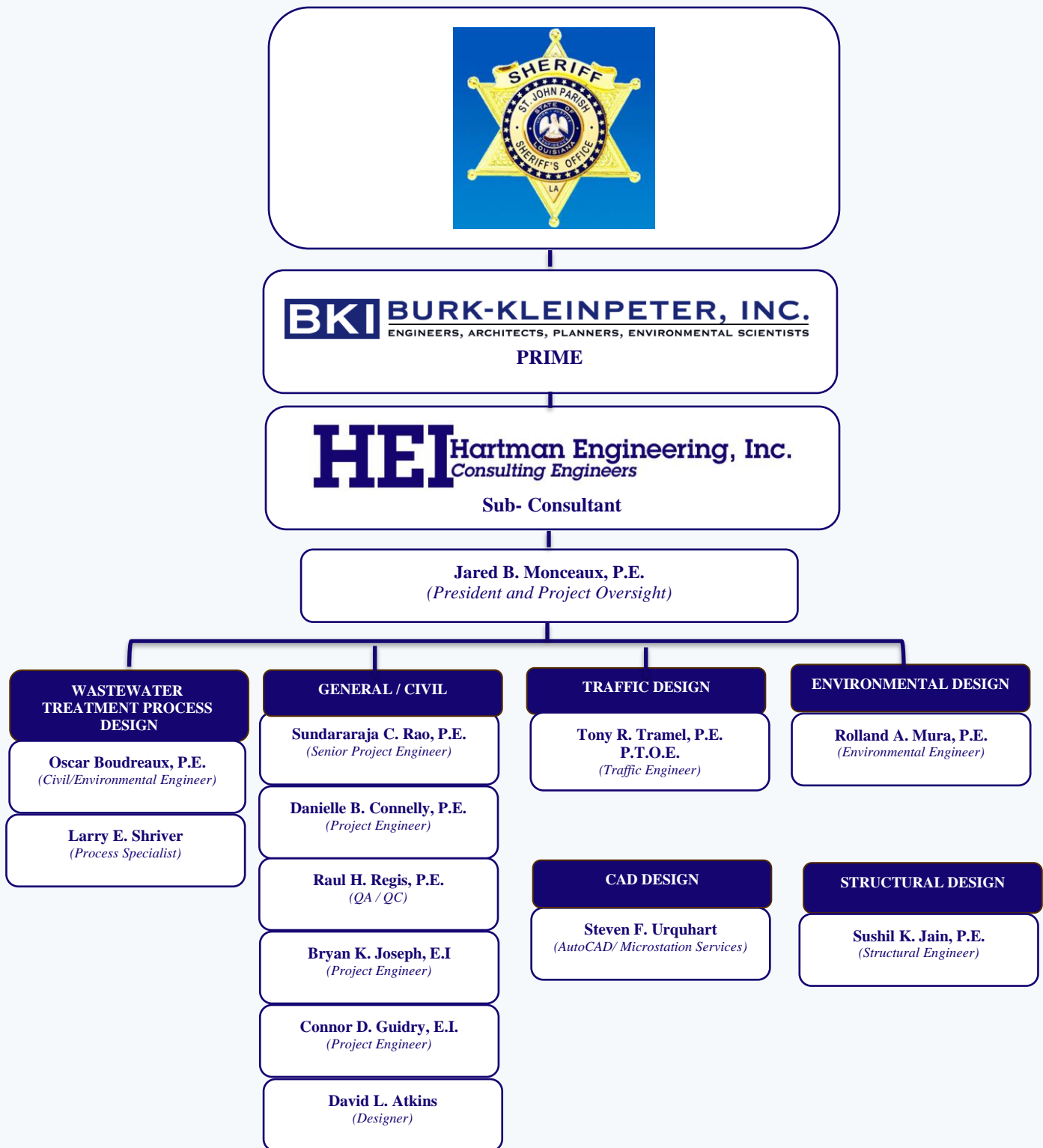
8. Do you intend to use a sub-consultant(s)? ____yes ____X__ no

(For use by the Prime Consultant only)

All sub-consultants/associates listed for this project must attach a signed Form SJB-1000

Name and address	Identify the element of work (as defined in the advertisement), and the % of the element to be performed by the sub-consultant	Worked with prime before? (Yes/No)
1. See Prime Firm		
2.		
3.		
4.		
5.		

9. Staffing Plan – A Diagram showing all personnel specifically assigned to each work element of the project, their duties, and immediate supervisors. The Staffing Plan should also include the same information for Sub-consultants (if applicable).



10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Jared B. Monceaux, P.E. • President • Prairieville, LA	b. Position or Assignment for this project Project Oversight
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: <u>14 (2007)</u> With other firms: <u>11</u>
e. Education: Degree(s) / Years / Specialization B.S., 2001, Civil Engineering, University of Louisiana at Lafayette	f. Active registration: Year registered: <u>2006</u> Branch: <u>Civil</u> State: <u>LA</u> License No.: <u>32202</u> <i>Also Registered in MS (18867) and FL (88044)</i>
g. Specific experience and qualifications relevant to the proposed project: <p>Mr. Monceaux has over twenty years of engineering design and project management experience with a variety of engineering projects including sewer pump stations, collection systems, transportation, structural, drainage, permitting, and wetland delineation. Mr. Monceaux has successfully managed projects from Natchez, MS to Grand Isle, LA, and many locations in between. Tasks performed include scope, layout, design, permitting, bidding, and construction administration.</p> <p>Completed “FHWA-NHI-142005 NEPA and the Transportation Decision-making Process” certification, hosted by LA DOTD/LTRC (2016)</p> <p><u>RELEVANT PROJECTS</u></p> <p><u>Reserve Wastewater Treatment Plant (St. John the Baptist Parish Wastewater Retention Pond Conversion to Wastewater Oxidation Treatment Pond”), St. John the Baptist Parish, LA-</u> HEI was Sub-Consultant to EES (Oscar Boudreaux, Jr., P.E.) for the conversion of the Reserve Wastewater retention pond to a 3.0 MGD Aerated Lagoon. HEI designed the following portions of the Lagoon: Effluent Pump Station and Force Main, Pipeline Levee Crossing, and all Structural components including Lagoon foundation, Headworks, Pipe Support, Chlorine Building foundation and Effluent Pump Station piping. Coordinated all Geotechnical aspects of the project. HEI also provided all permitting services for DEQ and LDHH approvals. Civil, Mechanical, and Structural engineering design for the expansion of the 3.0 MGD wastewater treatment plant and oxidation pond conversion to an Aerated Lagoon. HEI Project No. 11-023-06</p> <p><u>West Bank and Vicinity Hurricane Protection Project – Lake Cataouatche Pumping Station to Segnette State Park, Phase 2. First Lift, Jefferson Parish, LA (WBV 15a.2) -</u> Under the implementation of work recommended in the “Westwego to Harvey Canal, Louisiana Hurricane Protection Project, Lake Cataouatche Area”, the levees in the Lake Cataouatche Hurricane Protection System were raised to provide additional hurricane protection to meet the 2057 (1%) level of protection also known as the 100-year level of protection. This project included design and construction services for the second lift of a 20,250 linear foot segment of the hurricane protection system from Lake Cataouatche Pumping Station to the Segnette State Park. HEI Project No. 11-108-04</p> <p><u>SPN H.012884, FAP H.012884: Woodmere Blvd. Panel Replacement, Jefferson Parish, LA-</u> Mr. Monceaux was the Project Manager and QC/QA Engineer for the preparation of Plans and Specifications under HEI’s previous Retainer Contract for Pavement Preservation for the replacement of concrete panels in an Urban residential neighborhood. Construction value of approximately \$3 million. HEI Project No. 12-092-13-10</p> <p><u>H.004747 F.A.P. No. STP-3609(518): LADOTD - Lake Forest Blvd. Widening (Eastover to I-510), New Orleans, LA</u> - Project Manager for the extension (approx. 650’) a new westbound section of this urban collector road, approximately 450 feet west of its interchange with I-510. Responsible for the design and coordination efforts between LADOTD, City of New Orleans, and the Regional Planning Commission. A Categorical Exclusion (CE) was required for this project. HEI Project No. 12-092-08</p> <p><u>DPW FEMA No. 21032, Contract No. 1268, MK19-787, Project No. 2019-RR142, RR142 Pontchartrain Park Group C (FRC), New Orleans, LA</u> - Design services for FEMA-eligible street repairs and utility installations on four assigned streets within the Village De L'est Group C Project boundary. Improvements include the following design features: roadway pavement and base construction complete with curbs, sidewalks, drives, and ADA handicapped ramps; subsurface drainage, water, and sanitary sewer installation. Final grades designed to be compatible with adjacent</p>	

properties and existing pavements and provide for a positive flow of water towards catch basins. Project technical design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15” to 54”, circular and arch), and design of water and sanitary sewer installations. (HEI Project No. 11-076-09)

DPW FEMA No. 21032, Contract No. 1271, MK19-788, Project No. 2019-RR143, RR143 Pontchartrain Park Group D (FRC), New Orleans, LA -Provided professional engineering design services for FEMA-eligible street repairs and utility installations on assigned streets within the Pontchartrain Park neighborhood. Improvements include the following design features: roadway pavement and base construction complete with curbs, sidewalks, drives, and ADA handicapped ramps; subsurface drainage, water, and sanitary sewer installation. Final grades designed to be compatible with adjacent properties and existing pavements and provide for a positive flow of water towards catch basins. Project technical design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15” to 54”, circular and arch), and design of water and sanitary sewer installations. Full roadway reconstruction and installation of 12” – 36” (EQ.) storm drains, 8” water mains, and 8” sanitary sewer gravity mains. Project work located along Mithra St., Providence Pl., Pressburg St., Prentiss Ave., and Press Dr. (Final Design On-Going) (HEI Project No. 11-076-09)

LADOTD SP 700-26-0234, 826-44-0027; Hickory / Hickory Avenue Extension (LA 48 - Mounes), Route LA 3154, Jefferson Parish, LA. Design included performing checks on vertical and horizontal alignment, hydraulic design, quantity computations, coordination between U.S. Army Corps of Engineers Pump to the River project and Entergy’s Transmission Towers, and corrections to reflect current 2006 specifications and current bid items. (HEI Project No. 12-092-06)

Hanson City Area Sewer Lift Station Improvements for LS 4102 (Airline Drive/Minden St.) and LS 4103 (Firehouse/Hanson City), TASK 1, Kenner, LA. Project Manager & QA/QC for: Lift Station 4103 (Firehouse Rd.) proposed improvements include installing new pumping equipment and associated controls, piping, electrical work, repairing the roof of the existing building on site, and converting the station to an underground type station. The capacity of LS4103 will be increased from 1,280 GPM maximum (2 pumps running) to 2,000 GPM maximum (2 pumps running, 1 pump stand by). Lift Station 4102 (Airline and Minden) improvements include installing new pumping equipment and associated controls, piping, electrical work, and demolishing the existing building on site. The capacity of LS4102 will be increased from 745 GPM maximum (2 pumps running) to 800 GPM maximum (1 pump running, 1 pump stand by). This project is partially funded by U.S. Department of Housing and Urban Development Community Development Block Grant’s Hurricanes Gustav/Ike Disaster Recovery Grant. (HEI Project No. 11-011-77)

Hanson City Area Sewer Lift Station Improvements for LS 4103 (Firehouse/Hanson City), TASK 2, Kenner, LA. Project Manager & QA/QC for: The work consisted of the replacement of the existing Firehouse Road (4103) lift station asbestos concrete force main with a new 12” I.D. HDPE sewer force main via directional drilling method. The work included the installation of air release valves and two tie-in locations (one at Lift Station 4103 and one at the existing discharge manhole location), all located on Louis Armstrong International Airport (MSY) property. This project is partially funded by U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant’s Hurricanes Gustav/Ike (CDBG) Disaster Recovery Grant and Louisiana Department of Environmental Quality Loan. (HEI Project No. 11-011-77A)

Kenner Drainage Master Plan, City Of Kenner, LA. Project involved field verification of existing survey data on drainage network followed by appropriate modifications to maps, drawings and databases. 50,000+ drain inlets and corresponding number of drainage conduits were included in the modeled network. UNET, SWMM and PCSWMM software packages were utilized to create and run hydraulic models of drainage patterns within the City of Kenner. The results were compared with known occurrences of flooding to verify model accuracy and for calibration purposes. The identified problems were prioritized by flooding severity (flooding duration and depth), and underwent alternatives evaluation modeling. The Master Plan involved preparing comprehensive reports with all findings of the modeling exercises along with recommended drainage improvement solutions and opinions of construction costs. The Master Plan drainage improvement recommendations were presented as phased improvement approach to enable long term planning by the City based on funding availability. (HEI Project No. 11-011-73)

SCIP Project D5714, Sewer Lift Station D6-5 Force Main Improvements, Jefferson Parish, LA. Project Manager & QA/QC for: Sewer pump upgrade, force main rerouting, associated electrical work and roadway replacement; Design of the West Napoleon Force Main between David Drive and Transcontinental Drive, generally consisting of the following: approximately 9000 linear feet of 30" sewer force main, with tie-ins to the existing D6-5 sewer lift station and the existing 18" force main at West Napoleon Avenue and Transcontinental Drive. HEI Project No. 11-014-74

Design of SCIP Project 03561 - Rehabilitate Existing Cooper & Wilbur Lift Station, Jefferson Parish, LA. Project Manager & QA/QC for: The contract work consists of construction of new sewer pumping station (including wet well, valve vault, control panel, associated electrical work, and all miscellaneous site work); gravity sewer; demolition of existing lift station and conversion of wet well to sewer manhole; connection to existing 6" force main and restoration of roadway and other disturbed areas. HEI Project No. 11-014-86

SCIP Project D3123, Rehabilitate Existing Trickling Filters at Harvey Wastewater Treatment Plant, Jefferson Parish, LA. Project Manager & QA/QC for: Rehabilitate existing Trickling Filters at the Harvey Wastewater Treatment Plant - remove, clean and repair/replace existing trickling filter media (stacked 'crate' type), remove existing rotary distribution systems and replace with new stainless steel rotary distribution systems, inspect, repair and replace existing water supply (hydrant, water line), change existing vents with new SS or Aluminum vents, piping and media support inside filters, remove and exist hand rails, and installation of new LED lighting. HEI Project No. 11-014-93

UTL-18-0802, Hwy 42 Gravity Sewer Improvements (Cully Broussard Road to Harbor Lane), Ascension Parish, LA. Project Manager & QA/QC for: Designed approximately 1,400 linear feet of gravity sewer (this included design of subsurface installation of approximately 100 linear feet of gravity sewer) along LA Hwy 42 from Cully Broussard Road to Lake Harbor Lane including two Hwy 42 crossings via Jack or Bore. This design work included all plan sheets and specifications necessary to bid out for construction. This work was required to connect existing and future services to the parish owned sanitary sewer line on the south side of LA Hwy 42. Additional Task Order was assigned (UTL-17-002 - Task Order No. HEI-19-002) Developed plans and specifications for an additional sewer tail line North of Hwy 42 (Galvez Seafood location) into the gravity main south of Hwy 42. Prepared DOTD permit applications for two (2) LA HWY 42 road crossings via Jack or Bore. HEI Project No. 12-031-14

North Natchez Surface Water Project, Project 021-02 (US Corps of Engineers Section 592 Program), City of Natchez, MS. Prepared plans and specifications as per Mississippi's 2004 State Aid Green Book. Design included Storm Sewer Design for 200-acre drainage basin which included structural design of three cast-in-place, 14' x 14' manholes. Pipe sizes ranged from 15-inch RCP to 84-inch RCP and 8' x 6' pre-cast RCBs. Design also included vertical and horizontal alignment of roadways. HEI Project No. 21-017-03

Design Services for Chateau Transfer Station Force Main, City of Kenner, LA. Project Manager & QA/QC for: This conceptual study involved evaluating alternative alignment routes of a replacement sewer force main from the Chateau Sewer Transfer Station to WWTP No. 3. Alternatives were evaluated based upon hydraulic capacity, construction cost, constructability, and street conditions. The approximate length of the replacement force main is 7,000 feet of 30" diameter pipe. HEI Project No. 11-011-75

Design Services for 35th & Ole Miss Lift Station, Kenner, LA. Project Manager & QA/QC for: This project involved design of 4 submersible pumps in an 8,000 GPM capacity sewer pump station with 2 wet wells, 2 junction boxes, odor control for 2 wet wells and 2 junction boxes, relocation of 7 force mains (6" - 18") and gravity sewer, tie-in to existing 20" sewer force main, and demolition of existing pump station (with property transfer between City and Church). Project activities included Design, Preparation of Plans and Specifications, Construction Services and Resident Inspection. HEI Project No. 11-011-74

Chetta Drive Sewer Improvements Project, Jefferson Parish, LA. Project Engineer for: Provide design and construction engineering services for 2700 LF of new 8" sanitary sewer in Chetta Drive, Lisa Drive, Magnolia Drive and Power Boulevard from Veterans Boulevard to I-10. HEI Project No. 11-014-50

NOLA Motorsports Park, Laney Chouest (Owner), Jefferson Parish, LA. Project engineer for design of a 450-acre auto racetrack complex, including a go-kart track, miscellaneous service buildings, condominiums and other racetrack related facilities. Project included an overall site drainage study; design of access roads and parking areas (115,000 SY), 8" water mains (22,315 LFT), 8" sanitary sewer (12,345 LFT), multiple pump stations with force mains (11,400 LFT), various sized storm drainage facilities (15,150 LFT); and an overall site grading plan. HEI Project No. 13-115-01

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Rolland A. Mura, P.E. • Senior Engineer • Kenner, LA	b. Position or Assignment for this project Environmental Engineer
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: <u>19 (2002)</u> With other firms: <u>30</u>
e. Education: Degree(s) / Years / Specialization M.S., 1971, Environmental Engineering, Tulane University B.S., 1970, Civil Engineering, Tulane University	f. Active Registration: Year registered: <u>1974</u> Branch: <u>Civil & Env</u> State: <u>LA</u> License No.: <u>14997</u> <i>Also registered in MS (08409) and AL (14594)</i>
g. Specific experience and qualifications relevant to the proposed project: <p>Mr. Mura's 45+ years of experience includes a variety of civil and environmental engineering projects, ranging from basic gravity sewers to complex environmental impact statements, Brownfields site investigations, asbestos and NORM inspections, environmental assessments, ASTM Phase I and Phase II assessments, and regulatory compliance for commercial, industrial, and oilfield properties and facilities. He has been in charge of most of HEI's internal quality control matters on planning projects.</p> <p><u>RELEVANT PROJECTS</u></p> <p><u>Reserve Wastewater Treatment Plant (St. John the Baptist Parish Wastewater Retention Pond Conversion to Wastewater Oxidation Treatment Pond”), St. John the Baptist Parish, LA-</u> HEI was Sub-Consultant to EES (Oscar Boudreaux, Jr., P.E.) for the conversion of the Reserve Wastewater retention pond to a 3.0 MGD Aerated Lagoon. HEI designed the following portions of the Lagoon: Effluent Pump Station and Force Main, Pipeline Levee Crossing, and all Structural components including Lagoon foundation, Headworks, Pipe Support, Chlorine Building foundation and Effluent Pump Station piping. Coordinated all Geotechnical aspects of the project. HEI also provided all permitting services for DEQ and LDHH approvals. Civil, Mechanical, and Structural engineering design for the expansion of the 3.0 MGD wastewater treatment plant and oxidation pond conversion to an Aerated Lagoon. HEI Project No. 11-023-06</p> <p><u>Environmental Justice Support for Environmental Compliance for New Orleans Area Hurricane Protection System St. Charles, Jefferson, Orleans, St. Bernard and Plaquemines Parishes, LA. -</u> Provide data collection and analyses, development and implementation of public outreach efforts regarding environmental justice issues for on-going COE hurricane protection projects for the New Orleans area. Project involved close coordination with other Contractors who have primary responsibility for individual IERs as well as separate contractors responsible for overall public involvement and outreach. Provided close coordination with IER contractors assigned to the project, to ensure that environmental justice concerns inform the environmental review and alternative selection process. Also closely coordinated with the public involvement/outreach contractor regarding scoping meetings, monthly meetings and other outreach efforts. HEI Project No. 11-095-01-50</p> <p><u>SPN / H.004747 F.A.P. No. STP-3609(518): LADOTD - Lake Forest Blvd. Widening (Eastover to I-510), New Orleans, LA: (2012 – 2016)</u> Mr. Mura provided the Environmental Study (Categorical Exclusion) for the extension (approx. 650') a new westbound section of this urban collector road, approximately 450' west of its interchange with I-510. Responsible for the design and coordination efforts between LADOTD, City of New Orleans, and the Regional Planning Commission. A Categorical Exclusion (CE) was required for this project. HEI Project No. 12-092-08</p> <p><u>Subsurface Improvements to Sena Drive (Phase I & II), Project No. 2009-040-DR, Jefferson Parish, LA.-</u> Design and construction administration for subsurface drainage improvements between Nero Street and West Esplanade Avenue consisting of gravity line installations watermain replacement, sanitary sewer replacement and the replacement of street, drive approaches and miscellaneous sidewalks. Extreme care had to be given to the existing live oak trees that lined both sides of the street. A professional arborist provided design assistance to the engineer. HEI Project No. 13-014-78</p> <p><u>Soniat Canal Improvements, DPW Project No. 97-046A-DR(SELA), Jefferson Parish, LA.-</u> Federally funded project under the Southeast Louisiana Urban Flood Control (SELA) program that involves improving drainage along a major north-south running drainage canal via hydraulic studies, DDRs, design, geotechnical investigations, preparation of plans and specifications, construction management and resident inspection. HEI Project No. 11-014-55</p>	

Implementation of Odor Control Measures at Wastewater Treatment Plants 2 and 3, City of Kenner, LA. Provide professional engineering services for the feasibility evaluation, preliminary design phase, final design phase, bidding phase, and construction phase for the implementation of odor control measures at WWTP Nos. 2 and 3. HEI Project No. 11-011-70

East Bank & West Bank Regional Wastewater Treatment Plants; Engineering Services associated with EPA Grant, St. Charles Parish, LA. Provided professional services for all aspects of SSES program, including I/I management, sewer system modeling, flow monitoring, analysis of data, report preparation, and design of immediate improvements. HEI Project No. 11-012-06

DPW Project No. 2001-046F-DR(SELA), Harahan Pump to the River, Jefferson Parish, LA. - This is a unique project in terms of complexity, administration, design, and rights of way to relieve chronic flooding in southeastern portion of east bank of Jefferson Parish via Southeast Louisiana Urban Flood Control Project (SELA), of the COE: A 700' long Suction canal; a 1,200 cfs pumping station; Three 9,000' long 84" diameter discharge piping to the Mississippi River levee, Reinforced concrete levee crossing of discharge pipes; Reinforced concrete discharge basin in Mississippi River; coordination with local community, regulatory agencies and DOTD regarding a very old oak tree (the Old Dickory); and relocation of several high tension electrical transmission towers. Project involved Detailed Design, construction documents (Plans and Specifications), cost estimate, engineering during construction, and construction management/QA, for construction cost of \$106.8 Million. HEI Project No. 11-012-09

JP SCIP C1506: Jefferson Parish – Sewerage Improvements To The Fairfield Plantation, Jefferson Parish, LA): Mr. Mura provided evaluation, design and permitting for the lift stations, force main and gravity sewer to serve new golf course. Partial incl. COE 404, DEQ Water Quality, DOTD Jack & Bore, DHH and State Fire Marshall. Survey, geotechnical, design/permitting completed in less than 6 months. HEI Project No. 11-014-50-60

Environmental Infrastructure for Water & Wastewater Program Management, USACE No. W912P8-04-D-0005, Ascension Parish, LA. HEI provided Program Management of water and wastewater projects, and assisted in the development of priority capital improvement projects. HEI also provided research and guidance on available funding, planning, design, and construction. Develop Project Management Plan for Ascension Parish Priority Sewer Projects, including schedule, budget, funding recommendations & planning, design & construction processes. Assist in preparation of RFPs and Proposal Review. Provide Program Management Services for Sewerage Projects. HEI Project No. 12-096-03

Oakwood Canal (Bannerwood) Sediment Sampling & Analysis, Jefferson Parish, LA. HEI was responsible for testing existing canal bottom material. Three grab samples were collected and mixed to create two (2) composite samples. The three (3) grab samples were collected from the center, near side and far side of the canal below the waterline to a depth of three (3) feet below the canal bottom.

SCIP Project D5714, Sewer Lift Station D6-5 Force Main Improvements, Jefferson Parish, LA. Sewer pump upgrade, force main rerouting, associated electrical work and roadway replacement; Design of the West Napoleon Force Main between David Drive and Transcontinental Drive, generally consisting of the following: approximately 9000 linear feet of 30" sewer force main, with tie-ins to the existing D6-5 sewer lift station and the existing 18" force main at West Napoleon Avenue and Transcontinental Drive. HEI Project #11-014-74

Jefferson Parish Landfill - Leachate Pond Piping Modifications, (October 2016). Prepared technical plans to route existing, small diameter leachate and sewage force mains from the existing valve box at the Leachate Pond to a tie-in point on the Pond Outlet Structure effluent pipe, outside the Pond Lift Station wet well. The Leachate Pond serves the Jefferson Parish Sanitary Landfill located on the West Bank of Jefferson Parish in Waggaman, Louisiana. The plans consisted of installing by-pass force main piping and related tie-ins, valves, and fittings at the Leachate Aeration Pond. The new by-pass piping was located adjacent to the aeration pond with the existing piping remaining in place and functional. Construction consisted of four separate small diameter force mains needed to by-pass the aeration pond and to tie-in to the pond gravity effluent line between the pond Outlet Structure and the Effluent Pump Station. The project plans were based on and were prepared using available existing as-built plans. The project was completed under budget and time constraints utilizing Jefferson Parish Standard Public Works details and specifications where applicable. HEI Project No. 11-014-82-12

Risk Reduction & Disaster/Crisis Response - Vulnerability Assessment/Gap Analysis for Water, Wastewater, & Drainage Facilities, City of Kenner, LA. Perform Vulnerability Assessment for the City of Kenner assets (water, wastewater, drainage) that might cause crisis or be affected in a disaster. Also identify gaps between existing physical conditions and practices and those recommended by engineering practices and standards developed by Federal agencies. HEI Project No. 11-010-45

Sewerage Improvements to the Fairfield Plantation, Jefferson Parish, LA. Evaluation, design, & permitting for lift station, force main, & gravity sewer to serve new golf course. Partial wetlands construction Permits include COE 404, DEQ Water Quality, DOTD Jack & Bore, DHH, and State Fire Marshall. Survey, geotechnical evaluation, design/permitting completed in less than 6 months. HEI Project No. 11-014-50-60

Gravity Sewer Design, Jefferson Parish, LA. Design of relief gravity sewers in mini-systems in East Bank of Jefferson Parish as part of a U.S. EPA 201 Facility Plan, Step II Project. Made preliminary and final designs; managed drafting and developed plan layout. Field verified survey data; reviewed and recommended changes to specifications. Coordinated designs with other firms. Provided engineering services during bid and construction phases of projects. Work done with previous firm.

WWL AM & FM Radio, Coastal Use & Wetland Permitting for Transmission Towers Anchor Replacement, Jefferson Parish, LA. Prepared Louisiana coastal use and Corps of Engineers Section 404 wetland permit applications and review documentation for the replacement of the cable anchor structures for radio transmission towers adjacent to the Jean Lafitte National Park in Jefferson Parish, LA. The towers are located on private property surrounded by fresh water marsh in the National Park. The original tower anchors were weakened during Hurricane Katrina, and could not keep tension in the guy wires and could not be repaired. Replacement anchors were required. Coordinated with the Owner, the Jefferson Parish Coastal Zone Management Office and Department of Environmental Affairs, the Corps of Engineers Regulatory Permits Section, the National Parks Service, the U.S. Fish and Wildlife Agency, and with the Owner's design engineers and contractor. HEI Project No. 11-010-61

Ascension Parish Facility Plan & EID Update, Ascension Parish, LA. Whereas, MSMM Engineering, LLC has made an agreement with ATKINS North America to provide project management support to USCOE New Orleans District for Ascension Parish Wastewater Program Support. The Contractor shall assist MSMM in modifying existing Draft Ascension Parish Facility Plan and EID to include Hwy.73/Hwy.42 service area. Development and preparation of a draft Facility Plan for the Ascension Parish Wastewater Treatment System will be in accordance with the Louisiana Department of Environmental Quality Guidance for preparing a FACILITY PLAN for State Revolving Fund Projects (current edition). The Contractor shall review the document prior to submitting it to LDEQ for approval. The Contractor will assist Ascension Parish to collect supporting documents required for the SRF Loan application process. The data in the draft Plan shall reflect the planning elements and instructions of the Parish and allowable funding and budget components. The Contractor will coordinate with CEMVN, Ascension Parish, and other contractors on the PDT to incorporate up to date information into the draft Plan. HEI Project No. 11-121-01

Knight-Celotex: Jefferson Parish-Celotex, Phase I Environmental Site Assessment (ESA), Jefferson Parish, LA (2009 – 2009): Mr. Mura performed A Phase 1 ESA on the Celotex Drainage Pumping Station in Marrero, Louisiana and feasibility study evaluation of the storm water collection system in the storm water drainage pumping station service area was performed by doing a drainage study according to the parish's criteria and identified required improvements, along with cost estimates, within the storm water collection system. HEI Project No. 11-014-73

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Sushil K. Jain, P.E. • Structural Engineer • Prairieville, LA	b. Position or Assignment for this project Structural Engineer
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: <u>11 (2010)</u> With other firms: <u>42</u>
e. Education: Degree(s) / Years / Specialization M.S.C.E., 1966, Michigan State University, Michigan USA B.S.C.E., 1960, Punjab University, India B.A., 1956, Punjab University, India	f. Active registration: Year registered: <u>1976</u> Branch: <u>Civil</u> State: <u>LA</u> License No.: <u>15712</u>
g. Specific experience and qualifications relevant to the proposed project: Mr. Jain is a Registered Professional Engineer with a Master's Degree in Civil Engineering. He has 50+ years of experience in Structural Analysis and Design in both government and private industry. His background includes: Structural analysis and design of bridges, drainage structures, multi storied buildings and structures using current IBC codes, foundation for major industrial project, power plants, wastewater treatment plants, waterfront structures, refinery, and petrochemical plants etc. Engineering design of highways, roads, streets, and general civil projects. Inspection and analysis of structural stability of buildings and structures.	
<u>RELEVANT PROJECTS</u>	
<u>Reserve Wastewater Treatment Plant (St. John the Baptist Parish Wastewater Retention Pond Conversion to Wastewater Oxidation Treatment Pond)</u>, St. John the Baptist Parish, LA- HEI was Sub-Consultant to EES (Oscar Boudreaux, Jr., P.E.) for the conversion of the Reserve Wastewater retention pond to a 3.0 MGD Aerated Lagoon. HEI designed the following portions of the Lagoon: Effluent Pump Station and Force Main, Pipeline Levee Crossing, and all Structural components including Lagoon foundation, Headworks, Pipe Support, Chlorine Building foundation and Effluent Pump Station piping. Coordinated all Geotechnical aspects of the project. HEI also provided all permitting services for DEQ and LDHH approvals. Civil, Mechanical, and Structural engineering design for the expansion of the 3.0 MGD wastewater treatment plant and oxidation pond conversion to an Aerated Lagoon. HEI Project No. 11-023-06	
<u>11-PS-MS-0026, City of Baton Rouge Sewer Program, (Multiple Pump Stations, Burbank Drive – Siegen Lane) SFL-C-003, Baton Rouge, LA.</u> 6 Pump Station replacements combined capacity increase of 0.5 to 12.5 million gallons per day (MGD) (150 – 9,000 GPM). Project includes replacement of one in-line booster pump station with a submersible pump station. HEI Project No. 12-093-11	
<u>576-26-0028 (Phase V) JP Project No. 2010-003-DR, LADOTD – Ave D Drainage Improvements (Westbank Expressway to 6th St.), Jefferson Parish, LA (2010-2012).</u> Design Engineer for the preparation of preliminary and final plans and specifications for drainage and roadway improvements (LADOTD Statewide Flood Control Program). Design includes upgrade of existing drainage structures (which range from 15" to 96" RCP), structural design and detail of large conflict boxes, roadway reconstruction and utility relocation. HEI Project No. 12-014-76	
<u>576-26-0028 H.003559 (Phase VI) JP Project No. 2012-006-DR, LADOTD – Ave D Drainage Improvements (Ave C, Ave A, Gaudet; Between 6th St. and 8th St.), Jefferson Parish, LA.</u> Design Engineer for the preparation of preliminary and final plans and specifications for drainage and roadway improvements (LADOTD Statewide Flood Control Program). Design includes upgrade of existing drainage structures (which range from 15" to 72" RCP) structural design and detail of large conflict boxes, roadway reconstruction, utility relocations, and temporary traffic control. HEI Project No. 12-014-76	
<u>Harahan Drainage Pump to the River, Jefferson Parish, LA.</u> This is a unique project in terms of complexity, administration, design, and rights of way to relieve chronic flooding in southeastern portion of east bank of Jefferson Parish via Southeast Louisiana Urban Flood Control Project (SELA), of the COE: A 700 ft long Suction canal; a 1,200 cfs pumping station; Three 9,000 ft long 84 inch diameter discharge piping to the Mississippi River levee, Reinforced concrete levee crossing of discharge pipes; Reinforced concrete discharge basin in Mississippi River; coordination with local community, regulatory agencies and DOTD regarding a very old oak tree (the Old Dickory); and relocation of several high tension electrical transmission towers. Project involved Detailed Design, construction documents (Plans	

and Specifications), cost estimate, engineering during construction, and construction management/QA, for construction cost of \$106.8 Million. HEI Project No. 11-012-09

Sauve Road Drainage Improvements, Jefferson Parish, LA. Design and construction administration for subsurface drainage improvements to the Sauve Road area consisting of the construction of a drainage pump station and associated force main and gravity line installations and any street work and utility adjustments necessitated by the work. HEI incorporated previous studies and modeling efforts provided by Jefferson Parish to our own investigations in order to determine the best solution to drainage problems in the area and coordinated the design with drainage improvements being designed by others in the adjacent Hillings Ditch area. The Sauve Road improvements shall be complete and in place to receive Hillings Ditch improvements. HEI PROJECT No. 13-014-77

PW 2011-040-DR, 17th St. Crossing at Airline Highway, (Monticello Canal at Airline Highway Drainage Improvements Council District 2), Jefferson Parish, LA Preparation of an Engineering Alternative Report (EAR) for the construction of drainage improvements to a portion of the Monticello Canal extending from approximately the north-side of Airline Highway (US 61) to the south-side of the New Orleans Public Belt Railroad (Amtrak). This work is located on the boundary of Jefferson Parish and Orleans Parish, Louisiana. The project consists of drainage improvements to the Monticello Canal to include a single box culvert at Airline Highway and KCS Railroad to accommodate Hoey's By-pass only; and modified transition structure that combines flows from Hoey's By-pass and Monticello Canal; (3) and constructing a 1,400 cfs pump station at the existing Hoey's Cut location. The professional services required of the ENGINEER include conceptual engineering and design, preliminary drawing preparation, surveying and mapping the project site, incorporating relocation data into the design documentation, determining ROW requirements, performing the geotechnical investigations required to obtain necessary design parameters, preparing preliminary quantity and cost estimates all combined into the EAR. Finally, the ENGINEER shall prepare a cost sharing agreement with all affected entities. HEI Project No. 11-014-84

One Bridge Crossing Replacement (Roundtree Road), Ascension Parish, LA. Demo existing timber bridge and replace with new concrete slab span bridge. HEI Project No. 12-031-03

Donaldsonville Park Pavilion, Ascension Parish, LA. Prepared Preliminary and Final Construction drawings for the installation of a new 16,000 sf Pavilion including restroom facilities, vehicular access and parking lot. HEI Project No. 12-031-01

Other projects which Mr. Jain worked on and has experience with in previous positions:

- Gonzales Motor Vehicle Building, Gonzales, LA.
- Donaldsonville DPW Maintenance Building, Donaldsonville, LA
- Social Service Building Renovation, Gonzales, LA
- Banks Elementary School Piping/Insulation Replacement, Baton Rouge, LA.
- Glen Oaks Middle School, Piping/Insulation Replacement, Baton Rouge, LA.
- Shenandoah Elementary School Piping/Insulation Replacement, Baton Rouge, LA
- Park Improvements, Lake Providence, LA
- Solid Waste Building Renovation Plaquemine Parish, LA
- Library building renovation, Grand Isle, LA
- Baker Junior High School Roof Replacement, Baker, LA
- Oxidation Pond Renovation, Rayville, LA
- African American Museum, Monroe, LA
- Structural design LA OCS building in Amite, LA
- Renovation of housing units, Alexandria, LA
- Master Plan Update at Baton Rouge Airport, Baton Rouge, LA
- Sidewalk along Hwy 75, City of St. Gabriel, LA
- Recreation Center, Reserve, LA
- Annunciation Street Condo, New Orleans, LA
- B.R. Airport- Security Area Modifications, Baton Rouge, LA
- Public Safety Complex Renderings, City of Baker, LA

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Larry E. Shriver • Senior Process Specialist • Prairieville	b. Position or Assignment for this project Wastewater Process Specialist
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: <u>6 (2015)</u> With other firms: <u>47</u>
e. Education: Degree(s) / Years / Specialization M.S. Civil/Sanitary Engineering; University of Nebraska B.S. Biology, Minor Chemistry; Drake University	f. Active registration: Year registered: Branch: State: License No.:
<p>g. Specific experience and qualifications relevant to the proposed project:</p> <p>Mr. Shriver has over fifty years of experience in wastewater projects. During the last thirty-two years, Mr. Shriver has been involved with several projects. His experience is as follows:</p> <p><u>RELEVANT PROJECTS:</u></p> <p><u>Reserve Wastewater Treatment Plant (St. John the Baptist Parish Wastewater Retention Pond Conversion to Wastewater Oxidation Treatment Pond’), St. John the Baptist Parish, LA-</u> HEI was Sub-Consultant to EES (Oscar Boudreaux, Jr., P.E.) for the conversion of the Reserve Wastewater retention pond to a 3.0 MGD Aerated Lagoon. HEI designed the following portions of the Lagoon: Effluent Pump Station and Force Main, Pipeline Levee Crossing, and all Structural components including Lagoon foundation, Headworks, Pipe Support, Chlorine Building foundation and Effluent Pump Station piping. Coordinated all Geotechnical aspects of the project. HEI also provided all permitting services for DEQ and LDHH approvals. Civil, Mechanical, and Structural engineering design for the expansion of the 3.0 MGD wastewater treatment plant and oxidation pond conversion to an Aerated Lagoon. HEI Project No. 11-023-06</p> <p><u>Specific experience for Aerated Lagoons</u></p> <p><i>Alexandria, LA - Wrote my Master's Thesis on this plant.</i></p> <p><i>Oakdale, LA - With effluent filtration</i></p> <p><u>Mechanical Plants -</u></p> <p><i>Ruston</i></p> <p><i>Shepherd Oil - Ethanol plant</i></p> <p><i>Baton Rouge -</i></p> <p><i>Myriant Corporation, Lake Providence</i></p> <p><u>Natchitoches Louisiana – Membrane pilot study on the drinking water supply (surface water – Lake Sibley) for the City.</u> The study included the evaluation of seven different membranes and their capability of removing disinfection byproduct precursors. The pilot study was a 10 – 20 GPM membrane pilot project on this water supply. The study included hollow fiber ultrafiltration by two different manufactures followed by spiral wound nanofiltration membranes by various manufacturers.</p> <p><u>Marlin, Texas – Membrane pilot study on the drinking water supply (surface water – Marlin Lake) for the City.</u> The study included pre-clarification by alum coagulation. The clarified water was then filtered by hollow fiber ultrafiltration. Two units were evaluated, one from Koch Membrane Systems and one from Hydranautics/Indeck. Bench scale spiral wound membranes were evaluated for possible future additional soluble organics removal.</p> <p><u>Blanchard, Louisiana – Membrane pilot study on the drinking water supply (surface water – Caddo Lake) for the Town.</u> The study included pre-clarification by alum coagulation. The clarified water was then filtered by hollow fiber ultrafiltration. Two units were evaluated, one from Koch Membrane Systems and one from Siemens. Bench scale spiral wound membranes were evaluated for possible future additional soluble organics removal.</p> <p><u>DeSoto Parish Water Works #1 - Membrane pilot study on the drinking water supply (surface water – Toledo Bend Lake) for the Parish.</u> The study included pre-clarification by alum coagulation. The clarified water was then filtered by hollow fiber ultrafiltration. Two units are being evaluated, one from Koch Membrane Systems and one from Siemens.</p>	

City of Baton Rouge DPW – Extended Services Contract; wastewater treatment plant operations consultant, acted as a technical advisor for process control at the three major wastewater treatment facilities for the City.

New Orleans Sewage and Water Board (SWB) - Managed Competition Project; collected technical information for the Financial Advisory Team on the water and wastewater treatment plants as well as the lift stations and pump stations for bid document preparation; acted as a tour guide and coordinator for the prospective proposers on this project.

New Orleans SWB – Lift Station 16 Project; assisted in determining final design flow for this lift station, conducted hydraulic analysis for this project including line sizing and routing, developed system head curves at various operating conditions, pump selection alternatives and wet well requirements for this 3000 GPM Lift Station.

New Orleans SWB - Vulnerability Assessment Project; provided technical information for the security personnel on the water collection, treatment and distribution facilities for the City.

New Orleans SWB – Gravity Interconnects Project; selected potential locations for the interconnects between sewage service areas, prepared drawings of the potential locations for further review and evaluation, prepared cost estimates for all the proposed locations, preparing design of the final selected interconnect locations.

New Orleans SWB – London Avenue Canal Project; calculated flow data from the pump stations that pump into the canal, participated in the conceptual process selection for treatment – disinfection and trash collection, prepared routing maps of storm water from the drainage areas of the City that are pumped into this canal, assisted in the installation of a temporary-pilot floating baffle for trash collection information for the final report on this project.

Bionol Louisiana, LLC - Lake Providence, Louisiana – Air permit application and air permit acquisition for this proposed 108 Million Gallons of Ethanol Per Year corn to ethanol plant.


Celunol, LLC – Jennings, Louisiana – Pilot study to determine the treatability of their wastewater. The wastewater is from a lignocellulosic sugars to ethanol pilot and demonstration plant. The project included the use of membranes for wastewater treatment and possible reuse.

Bioenergy International, LLC – Boston, MA – Research on toxin removal and sugar concentration of both C5 and C6 hydrolyzate. The research also includes process equipment selection to more cost effectively benefit the overall process.

Myriant Corporation – Boston, MA – Designed and proposed a wastewater treatment system for the high strength industrial wastewater from their demonstration plant in Lake Providence, LA that will produce Succinic Acid by a fermentation process. Also obtained the air, water, stormwater and sludge handling and disposal LDEQ permits for this facility. After plant completion, served in a advisory capacity for water supply, wastewater treatment, and membrane separations processes within this demonstration plant.

Ascension Parish Government – Two and one-half years coordinating the Ascension Parish Government Comprehensive Wastewater Program. This included the coordination of the Parish public/private RFP program that consisted of solicitation, review, evaluation, selection and the negotiation process. Developed a sewer use ordinance that covered many things. Worked with the Corps of Engineers and Hartman Engineering in the preparation of a Facility Plan. Worked with Parish staff in the development of a financial plan to pay the debt service on a LDEQ SRF loan.

Environmental Business Specialists – Contract consulting for this firm in Mandeville, LA. To-date, the work includes operations consulting for various industries and technical overview on toxicity and inhibitory studies for various clients. Also, significant work has been done on developing an updated activated sludge modeling program and assisting with a new training program for wastewater operations.

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Oscar J. Boudreaux, Jr., P.E. • Civil & Environmental Engineer • Prairieville, LA	b. Position or Assignment for this project Environmental Engineer
c. Name of firm by which employed full time 	d. Years experience: With this firm: <u>1 (2020)</u> With other firms:
e. Education: Degree(s) / Years / Specialization 1976 Bachelor of Science in Civil Engineering, Louisiana State University 1975 Bachelor of Science (Engineering Science) College of Life, Science and Technology, Nicholls State University	f. Active registration: Year registered: <u>1980</u> Branch: <u>Civil/Environmental</u> State: <u>LA</u> License No.: <u>18859</u> <i>Also Registered in MS (16235)</i>
g. Specific experience and qualifications relevant to the proposed project: <p>During the last thirteen years, Mr. Boudreaux has been responsible for the design and/or construction of eleven (11) activated sludge extended aeration wastewater treatment facilities and three (3) other types of treatment facilities. His primary responsibility was to coordinate all disciplines and provide the technical design for facilities, whose average flows range from 0.17 MGD to 5.0 MGD. Construction costs varied from a low of \$900,000 to a high of \$13,000,000. These projects have a combined drawing list of over 750 sheets of technical data. Mr. Boudreaux is considered the leading designer of extended aeration with the use of intra-channel and external clarifiers in the United States by virtue of the fact that he has successfully designed and placed into operation fourteen (14) facilities in the States of Texas, Louisiana, and Mississippi in the last several years. In addition to these facilities, Mr. Boudreaux offers consulting advice to other design professionals across the United States as needed. He has visited and offers recommendations on facilities having operational problems. During his employment, he has visited over 200 wastewater facilities across the US in expanding his knowledge of the wastewater industry.</p> <p>As a service to his clients Mr. Boudreaux has taught wastewater treatment operations and maintenance class to prepare the operators for their certification license. His expertise in this field offers the operators the basis of wastewater treatment in addition to his insights on design.</p> <p>Renovation of a three (3) MGD water treatment facility for the City of Opelousas and a 1.25 MGD water treatment facility for the Town of Church Point are credited to his design leadership on these projects.</p> <p>In the wastewater field, Mr. Boudreaux has participated in Inflow/Infiltration Analysis and Sewer System Evaluation Survey for the City of Westwego and the City of Baton Rouge. The fieldwork included the collection of dry and wet weather flow information, dye testing for monitoring inflow sources, and close circuit television of the system. Afterward, he performed the analysis of the system.</p> <p>He also made improvements to a 3.0 MGD Aerated Lagoon plant “inside” an existing facultative lagoon in Reserve, LA. at a cost of \$2.75 per gallon. Based on is design, we were able to increase the flow at this facility to 5.0 MGD at a later date due to the lower influent BOD levels. He is capable of putting together a team that can utilize existing infrastructure and lower the costs of a project with his understanding of wastewater treatment.</p>	
<u>RELEVANT PROJECTS</u> <u>Reserve Wastewater Treatment Plant (St. John the Baptist Parish Wastewater Retention Pond Conversion to Wastewater Oxidation Treatment Pond”), St. John the Baptist Parish, LA-</u> HEI was Sub-Consultant to EES (Oscar Boudreaux, Jr., P.E.) for the conversion of the Reserve Wastewater retention pond to a 3.0 MGD Aerated Lagoon. HEI designed the following portions of the Lagoon: Effluent Pump Station and Force Main, Pipeline Levee Crossing, and all Structural components including Lagoon foundation, Headworks, Pipe Support, Chlorine Building foundation and Effluent Pump Station piping. Coordinated all Geotechnical aspects of the project. HEI also provided all permitting services for DEQ and LDHH approvals. Civil, Mechanical, and Structural engineering design for the expansion of the 3.0 MGD wastewater treatment plant and oxidation pond conversion to an Aerated Lagoon. HEI Project No. 11-023-06	

LEAD DESIGNER OF THE FOLLOWING TREATMENT FACILITIES *

City of Ville Platte, Louisiana – Wastewater Treatment Plant
 City of Pineville, Louisiana – Wastewater Treatment Plant
 City of Winnfield, Louisiana – Wastewater Treatment Plant
 Town of Madisonville, Louisiana – Wastewater Treatment Plant
 Town of Homer, Louisiana – Wastewater Treatment Plant
 Town of Pearl River, Louisiana – Wastewater Treatment Plant
 Town of Simmsport, Louisiana – Wastewater Treatment Plant
 Village of Natchez, Louisiana – Wastewater Treatment Plant
 Town of Addis, Louisiana – Wastewater Treatment Plant
 Galliano, Louisiana – Wastewater Treatment Plant
 City of Elsa, Texas – Wastewater Treatment Plant
 Clinton, Louisiana – Sewer Treatment Plant
 City of San Juan, Texas – Wastewater Treatment Plant
 City of Winnfield, Louisiana – Wastewater Treatment Plant Improvements
 City of Jeanerette, Louisiana – Wastewater Treatment Plant
 Town of Addis, Louisiana – Wastewater Treatment Plant
 City of Natchitoches, Louisiana – Wastewater Treatment Plant
 Town of Lutcher, Louisiana – Wastewater Treatment Plant Upgrades
 St John the Baptist Parish, Reserve Wastewater Treatment Plant
 City of Morgan City, Louisiana – Wastewater Treatment Plant
 Diamondhead Water & Sewer Dist., Diamondhead, MS – Wastewater Treatment Plant
 Town of Lutcher, Louisiana – Wastewater Treatment Plant
 City of Donaldsonville, Louisiana – Wastewater Treatment Plant
 Town of Port Barre, Louisiana – Wastewater Treatment Plant
 Sewer District No. 4, St. Tammany, Louisiana – Wastewater Treatment Plant
 City of Opelousas, Louisiana – Water Treatment Plant
 City of Churchpoint, Louisiana – Water Treatment Plant
 Town of Amite City, Louisiana – Wastewater Treatment Plant
 Town of Gramercy, Louisiana – Wastewater Treatment Plant
 St.John the Baptist Parish, Louisiana – Wastewater Treatment Plant (Sludge)
 PepsiAmericas, Reserve, Louisiana – Wastewater Treatment Plant
 Sewer District No. 6, St. Tammany, Louisiana – Wastewater Treatment Plant
 Town of Many, Louisiana – Water Treatment Plant
 Cenex Harvest Grain Elevator, Belle Chasse, Louisiana – Wastewater Treatment Plant
 Peavey Grain Elevator, Gramercy, Louisiana – Stormwater Treatment Plant
 Keegan Bayou, Biloxi, MS – Wastewater Treatment Plant (Sludge)
 Violet, St. Bernard Parish, Louisiana – Wastewater Treatment Plant (Sludge)
 Greenleaves Utility Company, Mandeville, Louisiana – Wastewater Treatment Plant
 Colonial Sugars, Gramercy, Louisiana – Wastewater Treatment Plant
 Abita Beer, Mandeville, Louisiana – Wastewater Treatment Plant
 Alliance Compressor Mfr., Natchitoches, Louisiana – Pre-Treatment Wastewater Plan

CONSULTED WITH OR SERVED AS TECHNICAL ADVISOR *

City of Hammond, Louisiana – Wastewater Treatment Plant
 Town of Jena, Louisiana – Wastewater Treatment Plant
 Indian River Development, Florida – Wastewater Treatment Plant
 Town of Berthoud, Colorado – Wastewater Treatment Plant

Town of Eunice, Louisiana – Wastewater Treatment Plant
City of Jackson, MS – Wastewater Treatment Plant
City of Trenton, Georgia – Wastewater Treatment Plant
Waveland, Mississippi – Wastewater Treatment Plant
City of Sulphur, Louisiana – Wastewater Treatment Plant
Whisperwood Subdivision, Slidell, Louisiana – Wastewater Treatment Plant
City of Morgan City, Louisiana – Water Treatment Plant
City of Mandeville, Louisiana – Wastewater Treatment Plant
Port of South Louisiana, LaPlace, Louisiana – Wastewater Treatment Plant
Town of Abbeville, Louisiana – Wastewater Treatment Plant
Beau Chene Subdivision, Mandeville, Louisiana – Wastewater Treatment Plant
Monsanto, Luling, Louisiana – Wastewater Treatment Plant

SITE TOURS FOR EVALUATION *

Over 250 in approximately 20 states

*** Performed by Mr. Boudreaux with EES or previous employment.**

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Danielle B. Connelly, P.E. • Project Engineer • Prairieville, LA	b. Position or Assignment for this project Project Engineer
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: <u>16 (2005)</u> With other firms: <u>0</u>
e. Education: Degree(s) / Years / Specialization B.S., 2006, Civil Engineering, Louisiana State University (LSU), Baton Rouge, LA	f. Active Registration: Year registered: <u>2011</u> Branch: <u>Civil</u> State: <u>LA</u> License No.: <u>36284</u>
g. Specific experience and qualifications relevant to the proposed project: Ms. Connelly has over fifteen years of experience as a design engineer and project manager for a variety of projects throughout southern Louisiana for several local and state government agencies. Ms. Connelly's design experience includes:	
<ul style="list-style-type: none"> • Roadway and Bridge Design for local corridors and highways (geometric, traffic, and sequencing), • Utility Designs for Water Distribution and Sanitary Sewer Collection Systems (gravity and force main via traditional and trenchless installation methods), • Drainage Designs (canals, levees, gravity and force main sub-surface systems via traditional and trenchless installation methods), and Environmental and Civil Site Design for sanitary sewer and drainage pump stations in simple duplex, triplex, and dual-bay multi-pump facilities. • ATTSA Traffic Control Supervisor and Technician 4/2017 	
<u>RELEVANT PROJECTS</u>	
<p><u>Reserve Wastewater Treatment Plant (St. John the Baptist Parish Wastewater Retention Pond Conversion to Wastewater Oxidation Treatment Pond)</u>, St. John the Baptist Parish, LA- HEI was Sub-Consultant to EES (Oscar Boudreaux, Jr., P.E.) for the conversion of the Reserve Wastewater retention pond to a 3.0 MGD Aerated Lagoon. HEI designed the following portions of the Lagoon: Effluent Pump Station and Force Main, Pipeline Levee Crossing, and all Structural components including Lagoon foundation, Headworks, Pipe Support, Chlorine Building foundation and Effluent Pump Station piping. Coordinated all Geotechnical aspects of the project. HEI also provided all permitting services for DEQ and LDHH approvals. Civil, Mechanical, and Structural engineering design for the expansion of the 3.0 MGD wastewater treatment plant and oxidation pond conversion to an Aerated Lagoon. HEI Project No. 11-023-06</p>	
<p><u>West Bank and Vicinity Hurricane Protection Project – Lake Cataouatche Pumping Station to Segnette State Park, Phase 2. First Lift, Jefferson Parish, LA (WBV 15a.2); Corps of Engineers New Orleans District -</u> Ms. Connelly assisted with quantity computation for the Design Quality Control Plan (DQCP), Safety Plan, design, construction documents (Plans and Specifications), cost estimating, engineering during advertisement, engineering during construction and ROW drawings for the second lift of a 20,250 linear foot segment of the hurricane protection system from Lake Cataouatche Pumping Station to the Segnette State Park. MII Construction Cost \$63.6 million. HEI No. 11-108-04</p>	
<p><u>DPW Project No. 13-TP-MS-0047, North Wastewater Treatment Plant Master Plan Plant Improvements Project, Baton Rouge, LA.</u> Project engineer for the sub-consultant portion of this project which includes an interdisciplinary plan for capacity and performance improvements and rehabilitations at the plant. HEI responsibilities for this project include coordinating a proposed improvements master plant layout, design and layout of various types of yard piping, proposed potable water facilities, drainage analysis and design, grading, geometric roadway and pavement designs, striping and traffic control, and erosion control. Interdisciplinary coordination efforts and various permit requirements and application preparations (USACE wetlands, DHH, DEQ, Pontchartrain Levee District, CPRA, etc.), are also part of HEI responsibilities for this project. HEI is a Sub-consultant to CDM-Smith on this project, and design is 90% complete. HEI Project #12-093-12</p>	
<p><u>LADOTD SP 700-26-0234, 826-44-0027; Dickory / Hickory Avenue Extension (LA 48 - Mounes), Route LA 3154, Jefferson Parish, LA.</u> -Design included performing checks on vertical and horizontal alignment, hydraulic design, quantity computations, coordination between U.S. Army Corps of Engineers Pump to the River project and Entergy's</p>	

Transmission Towers, and corrections to reflect current 2006 specifications and current bid items. HEI Project No. 12-092-06

SPN No. H012884: LADOTD - Woodmere Boulevard Panel Replacement, Jefferson Parish, LA. - This project was designed under HEI's previous LADOTD's Pavement Preservation Retainer. The project required concrete panel replacements determined during design, along Woodmere Boulevard from Lapalco Boulevard to Eastview Drive (1.15 miles). Curb replacement was also considered due to adjacent panel replacements. Additionally, restoration of loop detectors, new pavement markings, and ADA compliance at curb ramps and cross walks were designed as well. Construction value is approximately \$3 million. HEI Project No. 12-092-13-10

H.004747 F.A.P. No. STP-3609(518): LADOTD - Lake Forest Blvd. Widening (Eastover to I-510), New Orleans, LA - Road Design Engineer for the extension (approx. 650') of a new westbound section of this urban collector road, approximately 450 ft west of its interchange with I-510. Responsible for geometric and hydraulic design. A Categorical Exclusion (CE) was required for this project. HEI Project No. 12-092-08

SCIP Project D5714, Sewer Lift Station D6-5 Force Main Improvements, Jefferson Parish, LA. Project Engineer for: Sewer pump upgrade, force main rerouting, associated electrical work and roadway replacement; Design of the West Napoleon Force Main between David Drive and Transcontinental Drive, generally consisting of the following: approximately 9000 linear feet of 30" sewer force main, with tie-ins to the existing D6-5 sewer lift station and the existing 18" force main at West Napoleon Avenue and Transcontinental Drive. HEI Project No. 11-014-74

Design of SCIP Project 03561 - Rehabilitate Existing Cooper & Wilbur Lift Station, Jefferson Parish, LA. Project Engineer for: The contract work consists of construction of new sewer pumping station (including wet well, valve vault, control panel, associated electrical work, and all miscellaneous site work); gravity sewer; demolition of existing lift station and conversion of wet well to sewer manhole; connection to existing 6" force main and restoration of roadway and other disturbed areas. HEI Project No. 11-014-86

SCIP Project D3123, Rehabilitate Existing Trickling Filters at Harvey Wastewater Treatment Plant, Jefferson Parish, LA. Project Engineer for: Rehabilitate existing Trickling Filters at the Harvey Wastewater Treatment Plant - remove, clean and repair/replace existing trickling filter media (stacked 'crate' type), remove existing rotary distribution systems and replace with new stainless steel rotary distribution systems, inspect, repair and replace existing water supply (hydrant, water line), change existing vents with new SS or Aluminum vents, piping and media support inside filters, remove and exist hand rails, and installation of new LED lighting. HEI Project No. 11-014-93

UTL-18-0802, Hwy 42 Gravity Sewer Improvements (Cully Broussard Road to Harbor Lane), Ascension Parish, LA. Project Engineer: Designed approximately 1,400 linear feet of gravity sewer (this included design of subsurface installation of approximately 100 linear feet of gravity sewer) along LA Hwy 42 from Cully Broussard Road to Lake Harbor Lane including two Hwy 42 crossings via Jack or Bore. This design work included all plan sheets and specifications necessary to bid out for construction. This work was required to connect existing and future services to the parish owned sanitary sewer line on the south side of LA Hwy 42. Additional Task Order was assigned (UTL-17-002 - Task Order No. HEI-19-002) Developed plans and specifications for an additional sewer tail line North of Hwy 42 (Galvez Seafood location) into the gravity main south of Hwy 42. Prepared DOTD permit applications for two (2) LA HWY 42 road crossings via Jack or Bore. HEI Project No. 12-031-14

City/Parish DPW Project No. 09-GS-UF-008, Sanitary Sewer Overflow (SSO) 25th - North Acadian, CGN-C-0002, Baton Rouge, LA. Project Engineer for: the project involved sanitary sewer overflow upgrades which included the design and installation of approximately 13,000 linear feet of gravity sewer with diameters of 15" through 24". Project included LADOTD and C.N. Railroad permitting. Of particular note, design was 100% complete (including Survey and Geotech) within 7 months of Notice to Proceed due to the request of City/Parish. HEI Project No. 12-093-09

US Corps of Engineers Section 592 Program/City of Natchez, MS - North Natchez Drainage Improvements Canal Street Culvert Repairs. Prepared plans and specifications as per Mississippi's 2004 State Aid Green Book. Researched all aspects of Environmental permitting (NPDES, USACE, MDEQ, etc.). Design included Storm Sewer Design for 200-acre drainage basin which included structural design of three cast-in place, 14 ft x 14 ft manholes. Pipe sizes ranged from 15" RCP to 84" RCP and 8 ft x 6 ft pre-cast RCBs. Design also included vertical and horizontal alignment of roadways. HEI Project No. 21-017-03

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Sundararaja C. Rao, P.E. • Project Engineer • Prairieville, LA	b. Position or Assignment for this project Project Engineer
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: <u>14 (2007)</u> With other firms: <u>40</u>
e. Education: Degree(s) / Years / Specialization MS, 1972, Sanitary & Water Resources Eng., Brigham Young University MT, 1967, Hydraulic Engineering, I.I.T., Bombay, India BS, 1965, Civil Engineering, University of Mysore, India	f. Active registration: Year registered: <u>1978</u> Branch: <u>Civil/Env</u> State: <u>LA</u> License No.: <u>17005</u>
g. Specific experience and qualifications relevant to the proposed project: <p>Mr. Rao has over five decades of civil/hydraulic/sewer experience related to transportation and municipal systems, with a strong emphasis on the design and administration of roadway related projects. He has served in many capacities including design engineer, chief engineer of local civil consulting firms and has also served as project manager of several roadway and LADOTD off-system bridge replacement projects. Mr. Rao is currently serving as HEI's Roadway Design Engineer and has performed QA/QC on HEI Projects.</p> <p><u>RELEVANT PROJECTS:</u></p> <p><u>576-26-0028 (Phase IV) JP Project No. 2008-043-DR, LADOTD – Ave D 8th St. (Ave C and Gaudet), Allo St. (between 6th and 7th St.), Jefferson Parish, LA.</u> Design Engineer for the preparation of preliminary and final plans and specifications for drainage and roadway improvements (LADOTD Statewide Flood Control Program). Design includes upgrade of existing drainage structures (which range from 15-inch to 96-inch RCP), structural design, detail of large conflict boxes, roadway reconstruction and utility relocations. HEI Project No. 12-014-76</p> <p><u>LADOTD SP 700-26-0234, 826-44-0027; Dickory / Hickory Avenue Extension (LA 48 - Mounes), Route LA 3154, Jefferson Parish, LA.</u> Design included performing checks on vertical and horizontal alignment, hydraulic design, quantity computations, coordination between U.S. Army Corps of Engineers <i>Pump to the River</i> project and Entergy's Transmission Towers, and corrections to reflect current 2006 specifications and current bid items. HEI Project No. 12-092-06</p> <p><u>SPN No. H012884: LADOTD - Woodmere Boulevard Panel Replacement, Jefferson Parish, LA.</u> This project was designed under HEI's previous LADOTD's Pavement Preservation Retainer. The project required concrete panel replacements determined during design, along Woodmere Boulevard from Lapalco Boulevard to Eastview Drive (1.15 miles). Curb replacement was also considered due to adjacent panel replacements. Additionally, restoration of loop detectors, new pavement markings, and ADA compliance at curb ramps and cross walks were designed as well. Construction value is approximately \$3 million. HEI Project No. 12-092-13-10</p> <p><u>H.004747 F.A.P. No. STP-3609(518): LADOTD - Lake Forest Blvd. Widening (Eastover to I-510), New Orleans, LA: (2012 – 2016).</u> Road Design Engineer for the extension (approx. 650') a new westbound section of this urban collector road, approximately 450' west of its interchange with I-510. Responsible for the geometric and hydraulic design. A Categorical Exclusion (CE) was required for this project. HEI Project No. 12-092-08</p> <p><u>Sanitary Sewer System Upgrades (Staring Lane - Overflow Pump Station 58A) Service Area SGC-C-PS58A (City/Parish DPW Project No.09-PS-UF-0001), Baton Rouge, LA.</u> Design Engineer for the civil site layout for the 88 MGD overflow pump station (58A) that flows directly to the South Waste Water Treatment Plant. HEI was a Sub-consultant to GEC on this project and design is 100% complete. HEI Project No. 12-093-08</p> <p><u>City/Parish DPW Project No. 09-PS-MS-0034, Sanitary Sewer System Upgrades Booster Pump Station 514 Improvements, Baton Rouge, LA.</u> Design Engineer for the civil site layout for the 77 MGD overflow pump station (514), HEI was a Sub-consultant to GEC on this project and design is 100% complete. HEI Project No. 12-093-10</p>	

U. S. Army Corps of Engineers, New Orleans District - W85 - A & B Levee Enlargement, Atchafalaya Basin Levees. **Civil Engineer** on this 4.5-mile levee enlargement project. Responsibilities on this project included vertical and horizontal alignment design, cross sections, earthwork computations and borrow study report.

LA DOTD, Federal-Aid-Off-System Bridge Replacement Projects.- Project manager and design of various bridge replacement projects for parish bridges in Ascension, East Feliciana, Allen, Livingston, Orleans, St. Helena, LaSalle, Washington, Claiborne parishes. Hydraulic Reports, WSPRO water surface calculations, HEC-18 bridge scour analysis, Preliminary and final plan construction plans. (Work performed under previous consulting firm)

Sanitary Sewer System, City of Baton Rouge, LA. **Project engineer** for this S-5 area sewerage improvements project involving new pump stations, rehabilitation of existing pump stations, 30-inch diameter Price Brothers concrete cylindrical pipe force main, force main layout schedule, pipe strength and load calculations, construction overseeing, process contractor's payment requests, change orders, coordination, etc.

Sanitary Sewer System, Town of Estherwood, LA. **Project manager** of this \$700,000 dollar EPA and Farmers Home Administration funded wastewater collection, pumping and treatment facilities project for the Town of Estherwood located in Acadia Parish. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepared necessary engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the Town.

Sanitary Sewer System, Town of Morse, LA. **Project manager** of this \$ 600,000 dollar EPA and Farmers Home Administration funded wastewater collection, pumping and treatment facilities project for the Town of Morse located in Acadia Parish. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepared necessary engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the Town.

Sanitary Sewer System, Town of Washington, LA. **Project manager** of this \$1.2 million dollar EPA and Farmers Home Administration funded wastewater collection, pumping and treatment facilities project for the Town of Washington located in St. Landry Parish. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepared necessary engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the Town.

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Raul H. Regis, P.E. • Project Engineer • Prairieville, LA	b. Position or Assignment for this project QA /QC Engineer
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: 4 (2017) _____ With other firms: 26 _____
e. Education: Degree(s) / Years / Specialization B.S., 1990, Civil Engineering, Florida State University	f. Active registration: Year registered: 2008 Branch: Civil State: LA License No.: 34006 Also registered in MS (18695); AR (15078); Florida (62112); GA (29635)
g. Specific experience and qualifications relevant to the proposed project: <p>Mr. Regis has over 26 years of experience in project management, design of complex highways, multi-level interchanges and urban streets for major clients such as MDOT, LDOTD, NASA, USACE, FDOT, the Florida's Turnpike Enterprise, the Miami-Dade Expressway Authority (MDX), and the Puerto Rico Highway Authority. Additional clients include The City of New Orleans, Ascension Parish, St. John the Baptist Parish, St. Tammany Parish, Louisiana and in Florida: Broward County, Palm Beach County, Miami-Dade County, the City of Miami, and the City of Pembroke Pines. Further design experience includes, roundabout design, signal design and advanced traffic control.</p> <ul style="list-style-type: none"> • Member of ASCE • Louisiana Engineering Society <p><u>RELEVANT PROJECTS</u></p> <p><u>Kenner Drainage Masterplan, Kenner, LA:</u> Project Manager responsible for the coordination of the NEPA process including the completion of the Record of Decision (ROD), and post ROD activities such as the traffic and revenue analysis, and possible P3 opportunities. The Project would consist of a 90- to 105-mile long circumferential, controlled access toll roadway around greater Baton Rouge, Louisiana in Ascension, East Baton Rouge, Iberville, Livingston, and West Baton Rouge Parishes. The proposed toll highway would connect Interstate 12 east of Baton Rouge and east of Walker to Interstate 10 west of Baton Rouge; I-10 west of Baton Rouge to I-10 south of Baton Rouge; and I-10 south of Baton Rouge to I-12 east of Walker. The Project is being developed by the Capital Area Expressway Authority (CAEA), the Louisiana Department of Transportation and Development (LA DOTD), and the FHWA as lead federal agency. Cooperating agencies include the US Army Corps of Engineers (USACE), New Orleans District, and the US Coast Guard (USCG), 8th Coast Guard District. Approximate contract value \$12M (Finalizing NEPA Process). <small>HEI Project No. 11-011-73</small></p> <p><u>SPN H.009320/F.A.P. H009320: Acadian Roundabout, Route LA 20 (Canal Boulevard) And Local Routes (Back St., Jackson St., Thompson Place), Lafourche Parish, LA:</u> Mr. Regis is the QC/QA Engineer for the traditional shaped dual lane 5 legged roundabout at the intersection of LA 20 and Jackson St. in Thibodaux, LA. The improvements include roadway widening, valve engineering, utility relocations, drainage design, geometric design, extensive phasing and temporary traffic control. Design will conform to EDSM V1.11.6., and current 2017 roadway design guidelines. <small>HEI Project No. 12-092-09</small></p> <p>RELEVANT PROJECT EXPERIENCE FROM PREVIOUS FIRM:</p> <p><u>Calcasieu River Bridge EIS, Lake Charles, LA</u> - Project Manager responsible for the coordination of the NEPA process and roadway related tasks such as alternatives development, geometric analysis, and the Interchange Justification Report. The primary purpose of this project is to increase capacity along I-10 from the east and west interchanges with I-210 in the Lake Charles region. The study corridor is approximately 9 miles long and includes the high-level Calcasieu River Bridge. It also includes improvements and widening to the interstate approach roadways on either side of the urban bridge, including several complex interchanges. Approximate contract value \$6M. (LADOTD, State Project No. H.006783).</p> <p><u>Baton Rouge Loop Tier 1 Draft Environmental Impact Statement (FEIS) Ascension, East Baton Rouge, Iberville, Livingston, and West Baton Rouge Parishes, LA</u> - Project Manager responsible for the coordination of the NEPA process including the completion of the Record of Decision (ROD), and post ROD activities such as the traffic and</p>	

revenue analysis, and possible P3 opportunities. The Project would consist of a 90- to 105-mile long circumferential, controlled access toll roadway around greater Baton Rouge, Louisiana in Ascension, East Baton Rouge, Iberville, Livingston, and West Baton Rouge Parishes. The proposed toll highway would connect Interstate 12 east of Baton Rouge and east of Walker to Interstate 10 west of Baton Rouge; I-10 west of Baton Rouge to I-10 south of Baton Rouge; and I-10 south of Baton Rouge to I-12 east of Walker. The Project is being developed by the Capital Area Expressway Authority (CAEA), the Louisiana Department of Transportation and Development (LA DOTD), and the FHWA as lead federal agency. Cooperating agencies include the US Army Corps of Engineers (USACE), New Orleans District, and the US Coast Guard (USCG), 8th Coast Guard District. Approximate contract value \$12M.

Belle Chasse Tunnel and Bridge Replacement Stage 1- Environmental Assessment, Plaquemines Parish, LA- Project Manager responsible for the coordination of the NEPA process in particular the Bridge and Tunnel Historic Preservation alternatives. The Belle Chasse Tunnel and the Judge Perez Bridge are critical transportation links for residents, businesses and industries in the Westbank, Plaquemines Parish. Concerns have been identified with the functionality and reliability of these existing structures that form the LA 23 crossing of the Algiers Canal/Algiers Alternate Route of the Gulf Intracoastal Waterway (GIWW) and their ability to meet the needs of both the vehicular and maritime transportation corridors and the surrounding community. Replacing the existing structures will make both daily commutes and hurricane evacuations easier, faster and more reliable. It will help encourage economic growth in the area by providing the area's businesses and industries with a more efficient transportation system. A new bridge is also expected to be far less expensive to operate and maintain than the existing Belle Chasse Tunnel and Judge Perez Bridge. Project was on an expedited schedule and in metric units, making this a challenging project. (LADOTD, State Project No. H.004791).

LSU Nicholson Gateway, East Baton St. Parish, LA - Project Manager responsible for the supervision of the design of the access road to the new student housing project, and the sewer line connecting the new pump station south of Skip Bertman to the proposed student housing. Also included in this project as a separate task, is the redesign of Nicholson Drive from Burbank to Chimes Street, approximately 1.0 mile. Approximate contract value \$350,000.

I-10 Widening from Highland Road to LA-73, Baton Rouge, LA – Project Manager for this project to widen I-10 from a 4-lane divided section to a six-lane divided section. The widening will require the construction of an additional lane of traffic in both eastbound and westbound directions. The proposed additional lane of traffic will require the bridge over Highland Road to be replaced and the existing bridges over Bayou Manchac, and LA-73 to be widened. The approximate length of the project is 6.7 miles and design fees are approximately \$1.4 m. (LADOTD, State Project No. H.009250).

I-12 to Bush, St. Tammany Parish, LA- Project Manager for this project providing approximately 5.5 miles of a 4-lane divided highway from the proposed LA 3241 to the LA 40/LA 41 intersection in Bush, LA. As a sub the corresponding scope for this project was the preliminary design of the bridge over Talisheek Creek, approximately 500' in length. Additional tasks included the development of the bridge scour report at Talisheek Creek, and the QA/QC of the roadway plans for the project. Design fees for this project are approximately \$135k. (LADOTD, State Project No. H.004113).

Improvements to US 190 from LA 22 to Lonesome Road, St. Tammany Parish, LA - Project Manager responsible for the re-design of approximately 1.5 miles of US 190. Activities included close coordination with LDOTD, revisions to drainage plans, redesign of traffic signals, revision to existing super-elevation, and traffic control plans. Project was on an expedited schedule and in metric units, making this a challenging project. Approximate contract value \$150,000. (LADOTD, State Project No. H.000498).

I-10 Widening from Siegen Lane to the I-10/I-12 Split, Post Design Services and Geotechnical Support, Baton Rouge, LA - Project Manager responsible for the coordination of the geotechnical activities for all bridge substructures, and post design services during construction. Other responsibilities included the re-design of the traffic control plans for the I-10 mainline and ramps, approximately 4.6 miles. Additionally, this project required the close coordination with the LDOTD Project Engineer and his staff, and the contractor's construction manager. Approximate contract value \$350,000. (LADOTD, State Project No. 450-10-0108).

Intersection Improvements US 190 at Northpark, St. Tammany Parish, LA - Project Manager responsible for final layout of intersection improvements on two streets within the Northpark Business Park which connect to US Highway 190. Improvements include widening existing streets to add capacity for turn movements and improving traffic signals as needed to accommodate new movements. The design of an additional left turn lane from US 190 to Northpark, and a right turn lane from Northpark to US 190 was also included. Approximate contract value \$120,000. (LADOTD, State Project No. 700-30-0270).


SR 475 Extension from US 80 to Existing SR 475 at Old Brandon Road, Pearl, Rankin County, MS - Project Manager responsible for the reconfiguration of the MS 475 intersection with Old Brandon Road near the Jackson International Airport. The improvements will provide a full diamond interchange which will relieve traffic congestion at the roundabout located at the entrance to the airport where MS 475 currently intersects. Improvements to MS 475 will also include the design of two 275' concrete bridges on-curve over Old Brandon Road. Approximate contract value \$705,000. (MDOT).

Final Construction Plans Mississippi Highway SR 607 Roadway Widening, Design and Engineering Services; Interstate 59 to Saturn Drive, Hancock and Pearl River Counties, MS - Project Manager responsible for the development of plans and specifications for the widening of SR 607 from 2 to 4-lanes within the Stennis Space Center. The project total length was approximately 4-miles. Project involved roadway and drainage design and the development of specifications. Approximate contract value \$1,355,000. (NASA/MDOT).

Infinity Access Road, Hancock County, MS - Project Manager responsible for roadway and drainage design of approximately 1-mile of a 2-lane road that will serve as the entrance to the NASA Infinity Site. This proposed roadway will be connected to the MDOT entrance to the existing rest area located adjacent to SR 607. Specifications and construction cost estimates were also prepared. Approximate contract value \$260,000. (MDOT/NASA).

I-110 Bridge Rehabilitation, Biloxi, MS - Project Manager responsible for the development of complex traffic control plans for a heavily traveled bridge requiring rehabilitation. Task included maintaining traffic on the bridge during rehabilitation work. Approximate contract value \$70,000. (MDOT).

Crystal Hill Road Bike Path, Pulaski County, AR - Project Manager for the design of approximately 1.5 miles of bike lanes along the Crystal Hill Road corridor from Counts Massie Road east to Maumelle Boulevard. This project will introduce bike lanes in both directions along Crystal Hill Road which will tie into the existing network of bike trails along Maumelle Boulevard. Currently, Crystal Hill Road is a two-lane road with mainly residential traffic, but with some commercial traffic as it connects to Maumelle Boulevard in the east. The proposed typical section will contain 2-11' automobile lanes and 2-5' bike lanes in both directions, this configuration will be fitted within the existing road right of way. (Pulaski County Road and Bridge Department).

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Tony R. Tramel, P.E., P.T.O.E. • Traffic Engineer • Harlingen, TX	b. Position or Assignment for this project Traffic Engineer
c. Name of firm by which employed full time 	d. Years experience: With this firm: <u>7 (2014)</u> With other firms: <u>35</u>
e. Education: Degree(s) / Years / Specialization B.S., 1972, Engineering, Interdisciplinary Engineering, Purdue University, West Lafayette, IN Master of City Planning, 1974, City Planning, Georgia Institute of Technology, Atlanta, GA Master of Engineering, 1974, Traffic Engineering/Transportation Planning, Georgia Institute of Technology, Atlanta, GA	f. Active registration: Year registered: <u>1981</u> Branch: <u>Civil</u> State: <u>LA</u> License No.: <u>19268</u> <i>Also registered in TX (60074); OK (17946)</i>
g. Specific experience and qualifications relevant to the proposed project: <p>Mr. Tramel is an experienced transportation engineer/transportation planner with a variety of transportation related experience, including the administration of traffic safety and operations, transportation planning, land development review, traffic signal design and signal systems implementation, design and operation of parking facilities, supervision of street maintenance and municipal aviation activities. Traffic safety and operation experience included preparation of several municipal traffic studies to increase roadway capacity and safety, and more than 40 years of municipal traffic engineering and transportation planning experience. Transportation planning included the development of short and long range transportation plans for municipalities ranging in population from 90,000 to 260,000 persons. This work encompassed the use and calibration of transportation models to forecast future traffic conditions and the design of alternative transportation systems to accommodate future transportation demand.</p> <ul style="list-style-type: none"> • USA, Professional Traffic Operations Engineer (PTOE), (121) • Fellow Member of Institute of Transportation Engineers, (07060) • Adjunct Instructor, University of Southwest Louisiana, 1999 <p>As City Transportation Engineer for the City of Lafayette, Mr. Tramel administered the design and implementation of the City's first centralized computer-controlled traffic signal system in 1985 using CATV for communication. This system has been upgraded several times, and today includes more than 200 traffic signals and uses fiber communications, and has more than 75 pan and tilt video cameras in use. This video stream is used by the Signal Systems Engineer to evaluate signal timing changes and monitor traffic conditions. Additionally, this video is streamed to 911 public safety agencies, and with the use of an iPhone app, (Lafayette Traffic), allows anyone to view the cameras and see the reported locations of current traffic crashes.</p> <p>Mr. Tramel has been directly involved in traffic operational analysis, geometric and traffic signal design of more than 50 intersections. These intersections include locations in Lafayette, Louisiana, Vero Beach, Florida, and within the Dallas / Ft. Worth (DFW) Metroplex area it includes the cities of Grand Prairie, Arlington, Plano, Rockwall, Dallas, and Ft. Worth.</p> <p>Comprehensive traffic safety and traffic signal studies have been completed by Mr. Tramel for several cities during his more than 40 years as a transportation engineer in the private and public sectors of employment.</p> <p>He was the principle geometric and traffic operations design engineer associated with Lafayette's first "displaced left turn intersection design", or referred locally as a "Reduce Phase Intersection (RPI) "design at the intersection of US 167 Johnston Street at Camelia Boulevard / Guilbeau Road. This design was accomplished within the existing available rights of way.</p> <p>Mr. Tramel has advocated the use of modern roundabouts in Lafayette. The first modern roundabout in Louisiana was implemented with assistance of the LaDOTD more than 10 plus years ago at the intersection of two LaDOTD routes using District Maintenance funds and designs promulgated by Mr. Tramel. More than 13 modern roundabouts are either built or are under design in Lafayette Parish. Modern roundabouts are the only</p>	

traffic control device that enhances / improves efficiency, convenience, and traffic safety.

For the past 15 years, Mr. Tramel, has been the Metropolitan Planning Organization's lead staff engineer working with the LaDOTD in completing the Environmental Impact Document for the I-49 Connector in Lafayette. This 6 mile 6-lane elevated new Interstate 49 section has a projected cost of \$0.75 to \$1.0 Billion. A comprehensive engagement of efforts was undertaken by Mr. Tramel and his staff during this period including numerous public meetings and hearings, design charettes, traffic operation analysis of surface street interchanges with ramp connections, etc.

More than 25 intersections and more than 15 miles of roadways have been improved by the use of better pavement management. This included "restriping the existing pavement sections, typically reducing the lane width in order to provide additional turning lanes at signalized intersections. Several arterial streets were converted from 4 lane undivided street to 5 lane cross sections where the center lane was designated a two-way left turn lane (TWLTL) in an effort to increase capacity and enhance traffic safety.

RELEVANT PROJECTS

Intersection Improvements (Veterans Blvd. – Bonnabel Blvd.) JP Parish Project 2017-028-RBP, Jefferson Parish, LA- Mr. Tramel is the signal design engineer for this capacity improvements project at the intersection of Vets/Bonnabel. Additional left turn lanes are included in both directions along Veterans, new U-turns along Bonnabel, new signal to include pedestrians and future bike path. HEI Project No. 11-014-95

Stage 0 Feasibility Study Proposed Left Turn Lane on LA 30 at South Purpera Avenue/South Hodgeson Avenue, Ascension Parish, LA. Study of feasibility and potential traffic, environmental, and economic impacts of implementing a proposed left turn lane on LA 30 in comparison with existing conditions. Report follows all guidelines from LADOTD's *Stage 0 Manual of Standard Practice*. HEI Project No. 12-031-06

LADOTD H.011490, LA 30: Turn Lanes at S. Purpera & S. Hodgeson, City of Gonzales, LA. - Mr. Tramel was the lead design engineer responsible for the preparation of plans and specifications for the subject project. The project improvements include preliminary and final designs for the widening of an urban arterial (UA-3) 2-lane corridor to accommodate proposed left turns at the intersection of LA 30 and S. Purpera Ave. The improvements feature and intersection design, signal design, and ancillary roadway and drainage designs. Mrs. Connelly provides sub-consultant and client coordination, project management, QA/QC coordination, value-engineering recommendations, utility conflict review and coordination, geometric roadway and intersection design, drainage design, specifications review and preparation, construction cost estimate and quantity take-offs preparation. Additional technical responsibilities include roadway modeling via Bentley InRoads and MicroStation and providing LADOTD Submittals and Coordination via the Bentley ProjectWise interface. HEI Project No. 12-031-07

SPN H.003920, FAP H009320: Acadian Roundabout, Route LA 20 (Canal Boulevard) and Local Routes (Back St., Jackson St., Thompson Place) Ascension Parish, LA (2015-On Going) Design of a traditional shaped dual lane 5-legged roundabout at the intersection of LA 20 and Jackson St. in Thibodeaux, LA. The proposed roundabout shall branch from LA 20 into Canal Boulevard and Jackson St., also connecting Back St. and Thompson Place at the east and west approaches. Design conforms to EDSM V1.11.6., and current 2017 roadway design guidelines. HEI Project No. 12-092-09

Other Experience and Qualifications for Mr. Tramel:

- Lafayette Consolidated Government (LCG), Lafayette, LA, Director of Traffic and Transportation (1998 – 2013)
- DeShazo, Tang and Associates Consulting Engineers, Dallas, TX, Vice President/Principal (1993 – 1998)
- City of Arlington, TX, Assistant Director of Transportation/Planning (1990 – 1993)
- Kimley-Horn and Associates, Vero Beach, FL, Senior Engineer/Project (1988 – 1990)
- Parsons Brinckerhoff/De Leuw, Cather & Company, Dallas, TX, Chief Traffic Engineer (1987 – 1988)
- City of Grand Prairie, TX, Director of Transportation (1985 – 1987)
- City of Lafayette, Lafayette, LA, City Transportation (1977 – 1985)
- Hensley-Schmidt, Inc. (now dba Neel-Schaffer), Jackson, MS, Project Engineer/Manager (1974 – 1977)

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile David L. Atkins • Designer • Natchez, MS	b. Position or Assignment for this project Designer
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: <u>6 (2015)</u> With other firms: <u>42</u>
e. Education: Degree(s) / Years / Specialization	f. Active registration: Year registered: Branch: State: License No.:
<p>g. Specific experience and qualifications relevant to the proposed project:</p> <p>Mr. Atkins has over 45 years of Design and Construction Administration experience for local, state and federal agencies in Mississippi and Louisiana. Mr. Atkins is a well-rounded designer with experience in roads, bridges, hydraulics, sewer treatment and collection, water treatment and distribution, permitting, large-scale erosion-control projects and miscellaneous Airport design. His experience is as follows:</p> <p><u>RELEVANT PROJECTS</u></p> <p><u>Ascension Parish East Bank North Regionalization Plan, Ascension Parish, LA.</u> Preliminary design and modeling using InfoWorks ICM of over 40,000 customers. Preliminary design included modeling gravity and sewer forcemains, small and large pump stations, existing pump station rehabilitation, and routing analysis. HEI Project No. 12-031-16</p> <p><u>UTL-18-0802, Hwy 42 Gravity Sewer Improvements (Cully Broussard Road to Harbor Lane), Ascension Parish, LA.</u> Designed approximately 1,400 linear feet of gravity sewer (this included design of subsurface installation of approximately 100 linear feet of gravity sewer) along LA Hwy 42 from Cully Broussard Road to Lake Harbor Lane including two Hwy 42 crossings via Jack or Bore. This design work included all plan sheets and specifications necessary to bid out for construction. This work was required to connect existing and future services to the parish owned sanitary sewer line on the south side of LA Hwy 42. Additional Task Order was assigned (UTL-17-002 - Task Order No. HEI-19-002) Developed plans and specifications for an additional sewer tail line North of Hwy 42 {Galvez Seafood location) into the gravity main south of Hwy 42. Prepared DOTD permit applications for two (2) LA HWY 42 road crossings via Jack or Bore. HEI Project No.12-031-14</p> <p><u>Germany Road Gravity Sewer Improvements, Ascension Parish, LA.</u> HEI developed a preliminary engineering design and construction cost estimate for installation of sanitary sewer along Germany Road from Airline highway to LA Highway 44. HEI Project No. 12-031-15</p> <p><u>UTL-17-002, Task Order No. HEI-19-003, LA HWY 42 – LA HWY 73 Roadway Corridor (Project Area P1-6), Ascension Parish, LA.</u> HEI performed a preliminary engineering study to determine two potential sewer collection alignments / conceptual design including construction costs based upon finding of current sewer flows. HEI Project No. 12-031-12C</p> <p><u>Sewer and Water Experience</u> Mr. Atkins has designed and constructed over 90 sewer collection and 75 water distribution projects. He was also responsible for upgrading the capacity of Natchez Water and Wastewater Treatment Plants and managed the O&M for both.</p> <p><u>Road and Bridge Experience</u> Mr. Atkins has designed and constructed over 100 Mississippi State Aid Road and Bridge Projects in Adams and Wilkinson Counties. Mr. Atkins was involved in the widening of U.S. 61 and U.S. 84 (50 miles) and the relocation of Hwy 33 and 28 for MDOT. (Work performed under previous consulting firm).</p> <p><u>Drainage and Erosion Control Experience</u> Mr. Atkins has designed and constructed over 150 NRCS EWP projects. The largest being the Natchez Bluff Stabilization project funded by the USACE and NRCS, (\$30 million construction cost). Mr. Atkins managed and designed over 25 projects funded by the USACE 592 program. (Work performed under previous consulting firm).</p>	

Natchez Bluff Stabilization - The project required the design and construction of: 2 permanent soil nail walls with over 100,000 square feet of permanent shotcrete. More than 2,900 permanent soil nails. Over 2,500 feet of permanent soil nail wall, up to 62 feet high. Over 500 lineal feet of a permanent tieback soldier beam wall up to 48 feet high. Excavation, hauling and placement of over 100,000 cubic yards of dirt. (Work performed under previous consulting firm).

Airport Experience

Mr. Atkins has designed all major aspects of the Natchez-Adams County Airport, including runways, T-hangers, drainage, etc. (Work performed under previous consulting firm).

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Bryan K. Joseph, E.I. • Project Engineer • Kenner, LA	b. Position or Assignment for this project Project Engineer
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: <u>19 (2002)</u> With other firms: <u>0</u>
e. Education: Degree(s) / Years / Specialization B.S., 2001, Mechanical Engineering, Southern University and A&M College, Baton Rouge, LA	f. Active Registration: Year registered: <u>2003</u> Branch: <u>Engineer Intern</u> State: <u>LA</u> License No.: <u>EI20836</u>
g. Specific experience and qualifications relevant to the proposed project:	
<p>Mr. Joseph's experience includes a variety of civil and environmental engineering projects, ranging from complex modeling of sanitary and storm-water system, design of collection system sanitary sewer lift-stations, various recovery/disaster efforts through federal (Corp of Engineers, FEMA, EPA, HUD) and state authorities (LDEQ, MDEQ). In addition, Mr. Joseph has performed environmental (Phase I, categorical exemption) for federal clearance. Highlights from his career include the projects noted below.</p> <ul style="list-style-type: none"> Completed "Introduction to ArcGIS I" ESRI certification (2008) <p><u>RELEVANT PROJECTS</u></p> <p><u>Damage Assessment and Planning for Wastewater Infrastructure, Jefferson Parish, LA.</u> Involved in the assessment of damages to wastewater facilities from the hurricane. The work involved field inspection of wastewater pump stations and their ancillary features (superstructure, control panel, emergency generator, etc.) on an emergency basis to be utilized for formulation of short term and long-term planning against impacts of natural disasters. The emergency assessment was conducted per FEMA requirements to facilitate Federal cost reimbursement. HEI Project No. 11-012-10</p> <p><u>CDBG Environmental Review of projects funded by Hurricanes Gustav and Ike Disaster Recovery Grants, Jefferson Parish, LA.</u> Worked closely with Jefferson Department of Community Development and the Louisiana State CDBG to obtain environmental clearance on multiple projects throughout unincorporated Jefferson Parish and its incorporated entities. The total amount of funding was \$27,143,935, which included projects in unincorporated east bank (east bank wastewater treatment plant, Helios and West Napoleon sewer pump stations), and in incorporated cities and towns (street repairs in Grand Isle, water infrastructure repairs in Westwego, stormwater detention pond improvements in Gretna, effluent pump station improvements in Harahan WWTP, effluent pump station improvements in Harvey WWTP, drainage improvements in Barataria and Lafitte, rehabilitation of Senior Art Gallery and rebuilding of auditorium in Lafitte). Tasks completed for each activity: met and coordinated with the State's CDBG staff (grant and environmental) to enable smooth progress of the projects; prepared NEPA documentation (environmental review records or ERRs); communicated with numerous agencies and stakeholders as part of the solicitation of views (SOV) procedure; conducted public review process; forged close working relationship with environmental reviewers; and successfully obtained the requisite environmental clearances. Levels of NEPA documentation prepared for different projects – Exemption, Categorical Exclusion, and Environmental Assessment. Of special note is the successful securing of environmental clearance for a project that was under LDEQ's Compliance Order deadlines. HEI Project No. 11-014-79</p> <p><u>Phase I Environmental Site Assessment (ESA) -6640 Riverside Drive, Metairie, LA, (May 2016).</u> Completed a Phase I Environmental Site Assessment (ESA) for the JP Dept. of Environmental Affairs on the Parish owned property site at 6640 Riverside Drive, Metairie, Louisiana. The property is part of Bissonet Plaza Subdivision, on the East Bank of Jefferson Parish, Louisiana. The scope of the Phase I ESA was to identify recognized environmental conditions in connection to the subject property. The ESA was conducted as part of an evaluation of the site for potential public ownership and improvements. The Phase I ESA was performed in accordance with standards presented in the ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-13). HEI Project No. 11-014-82-11</p> <p><u>Soniat Canal Improvements - Veterans Memorial Boulevard to Lester Street, Jefferson Parish, LA.</u> Initial involvement in Veteran Blvd. and Soniat Canal crossing 100%/Bid plans and specification. Throughout project history, Mr. Joseph has aided senior design engineer and project manager in design and construction periods in the various</p>	

phases of the federally funded project. This project under the Southeast Louisiana Urban Flood Control (SELA) program that involves improving drainage along a major north-south running drainage canal via hydraulic studies, DDRs, design, geotechnical investigations, preparation of plans and specifications, construction management and resident inspection. This project will increase the capacity of Soniat Canal from Canal No. 3 to West Metairie Avenue in Metairie, LA from 3,000 cfs to 5,200 cfs. This involved designs for U-shaped concrete flumes, utility relocations, and sheet piling transitions in seven separate bid packages: 1. Canal No. 3 to Veterans Memorial Boulevard –750 ft in length, lined with concrete flume; 2. Veterans Memorial Boulevard vehicular bridge replacement – 300 ft in length with three box culverts (each 18'H x 36'W); 3. Veterans Memorial Boulevard to West Napoleon Boulevard – 3,500 ft total length, lined with concrete flume; 4. West Napoleon Avenue vehicular bridge replacement – 400 ft in length; 5. West Napoleon Avenue to Lynette Drive – 1,100 ft long. ; 6. Lynette Drive to Lester Street – approx. 2,900 ft long; 7. Lester Street to West Metairie Avenue – approx. 450 ft long. The total construction cost is estimated to be \$155 M.

HEI Project No. 11-014-55

Subsurface Improvements to Sena Drive (Phase I & II), Project No. 2009-040-DR, Jefferson Parish, LA. Design and construction administration for subsurface drainage improvements between Nero Street and West Esplanade Avenue consisting of gravity line installations watermain replacement, sanitary sewer replacement and the replacement of street, drive approaches and miscellaneous sidewalks. Extreme care had to be given to the existing live oak trees that lined both sides of the street. A professional arborist provided design assistance to the engineer.

(HEI Project #13-014-78)

LADOTD – Lake Forest Blvd. Widening (Eastover to I-510), SPN H.004747 F.A.P. No. STP-3609(518): New Orleans, LA- Environmental Engineer for the extension (approx. 650') a new westbound section of this urban collector road, approximately 450 ft west of its interchange with I-510. Responsible for the geometric and hydraulic design. A Categorical Exclusion (CE) was required for this project.

HEI Project No. 12-092-08

Kenner Drainage Master Plan, City of Kenner, LA. Mr. Joseph was involved in the development of a hydraulic model consisting of 50,000+ drain inlets and over 100 miles of storm water drainage conduits. UNET, SWMM and PCSWMM software packages were utilized to create and run hydraulic models of drainage patterns within the City of Kenner. This project involved field verification of existing survey data on drainage network followed by appropriate modifications to maps, drawings and databases. The results were compared with known occurrences of flooding to verify model accuracy and for calibration purposes. The identified problems were prioritized by flooding severity (flooding duration and depth), and underwent alternatives evaluation modeling. The Master Plan involved preparing comprehensive reports with all findings of the modeling exercises along with recommended drainage improvement solutions and opinions of construction costs. The Master Plan drainage improvement recommendations were presented as phased improvement approach to enable long term planning by the City based on funding availability.

HEI Project No. 11-011-73

East Bank Subsurface Drainage Improvement Program, Jefferson Parish Project No. 2007-024-DR, Jefferson Parish, LA. Project engineer for review and summarization of select existing drainage reports, perform field investigations to verify current status of previously recommended projects, assistance with public outreach, identification of data gaps, development of Stormwater Management Program and Funding Program. In addition, subsequent modeling was performed to update the past models and or improvement recommendation to insure the validity of the recommendations.

HEI Project No. 11-041-16

Canal No. 17, Canal No. 7, and Parish Line Pump Station, Jefferson Parish, LA. Involved in development of a computerized hydraulic model (in HEC-RAS) of the Parish Line Pump Station service area. This model identified deficiencies in drainage infrastructure and recommended improvements to drainage facilities under different storm scenarios (10, 50, and 1001 year storm events).

HEI Project Nos. 11-014-65, 11-014-63, 11-041-17 respectively

Sewer Lift Station D6-5 Improvements, Jefferson Parish, LA. Project engineer for sewer pump stations D6-5 and D5-3 and associated force main upgrading and routing modifications to alleviate capacity and I/I problems. Project involves preparation of construction plans and specifications to upgrade pump station and related force main to reduce discharge of wastewater into Lake Pontchartrain.

HEI Project No. 11-015-09

Jefferson Parish Wastewater Collection System Hydraulic Modeling. Mr. Joseph conducted condition survey of several hundred sewer manholes and sewer pump station wet wells in Jefferson Parish as part of this project. He also

verified the connectivity of the network on course of such fieldwork. Subsequently would build upon InfoWorks model and prepare recommendation to Sanitary Sewerage Department for remedial solutions. HEI Project No. 11-015-08

St. Bernard Parish Government Sewer Project, Phase II, Area B Project No. PW 18971 & 19124, St. Bernard, LA. As a result of damages caused by Hurricane Katrina, St. Bernard Parish proposed to clean, televise, and repair their gravity sewer system east of Highway 47 through funding provided by FEMA. HEI conducted Design, Construction Administration, and Resident Inspection Services for this project. HEI was responsible for reviewing sewer evaluation survey results and FEMA recommendations to prepare work directives for the Contractor; and to inspect the work as it was completed. Rehabilitation work to the gravity sewer system consisted of open cut point repairs to damaged portions of gravity mainlines, full gravity line replacement by pipe bursting, house sewer service lateral replacement, and manhole lining and repair/replacement. Additionally, all roadway replacement incidentals required by the sewer repairs were performed as part of this project. As of December 2012, over 50,000 linear feet of gravity sewer and 25,000 square yards of roadway have been repaired. (HEI Project No.11-025-08)

Evaluation and Recommendation for the Replacement and/or Repair of Price Brothers Sewer Force Mains located throughout Council District 3, SCIP Project D6403, Jefferson Parish, LA. Task 1: Prepare GIS maps of PCCP sewer force mains including force main routes, laying schedules, and check existing pressure readings. Perform field reconnaissance and review current as-built/unit sheet drawings for creation of GIS shape file for X-Y coordinates of air relief valves. HEI Project No. 11-014-83A

Evaluation and Recommendation for the Replacement and/or Repair of Price Brothers Sewer Force Mains located throughout Council District 4, SCIP Project D5588, Jefferson Parish, LA. Task 1: Prepare route maps based on existing Parish G.I.S. system and computerized hydraulic sewer system model. Task 2: Investigate the availability of in-place non-destructive methods to evaluate the existing structural condition at the existing network of Price Brothers Precast Concrete Cylinder Pipe (PCCP) Force Mains. Task 3: Prepare bidding documents for the evaluation of Price Brothers Precast Concrete Cylinder Pipe (PCCP) Force Mains. Task 4: Provide bidding documents for the repair of Price Brothers Precast Concrete Cylinder Pipe (PCCP) Force Mains identified in Task 3. Supplemental: Identify/locate air relief valves throughout Council District. No. 4. HEI Project No. 11-014-83

10. Brief résumé of key persons anticipated to work on this project	
a. Name, title & domicile Connor D. Guidry, E.I. • Project Engineer • Prairieville, LA	b. Position or Assignment for this project Project Engineer
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: <u>4 (2017)</u> With other firms: <u>0</u>
e. Education: Degree(s) / Years / Specialization B.S., 2018, Civil Engineering, Louisiana Tech University, Ruston, LA	f. Active Registration: Year registered: <u>2018</u> Branch: <u>Engineer Intern</u> State: <u>LA</u> License No.: <u>EI33801</u>
g. Specific experience and qualifications relevant to the proposed project:	
<u>RELEVANT PROJECTS</u>	
<p><u>SPN H.012884 Woodmere Blvd. Panel Replacement, Jefferson Parish, LA. :</u> Mr. Guidry provided Engineering Support for the preparation of Plans and Specifications under HEI's previous Retainer Contract for Pavement Preservation for the replacement of concrete panels in an Urban residential neighborhood. Construction value of approximately \$3 million. HEI Project No.12-092-13-10</p> <p><u>SPN H.011007 Chateau Blvd Resurfacing, Jefferson Parish, LA. :</u> Mr. Guidry provided Engineering Support for the preparation of the design of a resurfacing project for 0.75 miles of a boulevard section, which included Plans and Specifications for Milling and Asphalt Concrete Overlay, Base Course Replacement and Curb and Gutter Replacement. Construction Value of \$1.2 million. HEI Project No. 12-092-12</p> <p><u>Ascension Parish East Bank North Regionalization Plan, Ascension Parish, LA.</u> Preliminary design and modeling using InfoWorks ICM of over 40,000 customers. Preliminary design included modeling gravity and sewer forcemains, small and large pump stations, existing pump station rehabilitation, and routing analysis. HEI Project No. 12-031-16</p> <p><u>Intersection Improvements (Veterans Blvd. – Bonabel Blvd.) JP Parish Project 2017-028-RBP, Jefferson Parish, LA-</u> Mr. Guidry provided Engineering support for this capacity improvements project at the intersection of Vets/Bonnabel. Additional left turn lanes are included in both directions along Veterans, new U-turns along Bonabel, new signal to include pedestrians and future bike path. HEI Project No. 11-014-95</p> <p><u>Acadian Road Roundabout Route LA 20 (Canal Blvd.) and Local Routes (Back St., Jackson St., Thompson Pl.), Contract No. 4400004485, SPN. H009320.5, FAP No. H009320, Lafourche Parish, LA.</u> Design of a traditional shaped dual lane 5-legged roundabout at the intersection of LA 20 and Jackson ST. in Thibodeaux, LA. The proposed roundabout shall branch from LA 20 into Canal Blvd. and Jackson St., also connecting Back St. and Thompson Pl. at the east and west approaches. Design will conform to EDSM V1.11.6. HEI Project No. 12-092-09</p> <p><u>RR189, Project No. 2016-RR189, Capital Improvement Program, RR3 Village De L'Est Group C (FRC), PW7120355; K17-420, DPW FEMA PW No. 21032, City of New Orleans, LA.</u> Engineering and construction management services for fall roadway reconstruction including drainage, water, and sewer replacements. Construction cost is approximately \$8,000,000. HEI Project No. 11-076-08</p> <p><u>Lapalco Boulevard Improvements (Victory Drive – Westwood Drive), JPPW No. 96-019D-RBI, SPN. 742-26-0033, FAP No. HP-STP-6130(010) (Phase II), Jefferson Parish/LaDOTD, LA.</u> Preliminary and final construction plans for 0.8 miles of road widening (from 4-6 lanes), drainage improvements, wetland delineation and jurisdictional determination, public hearings, regulatory agency coordination, permitting, (404 from COE, Coastal Use from LDNR, Water Quality Certification from LDEQ), and wetland mitigation. HEI Project No.11-014-53</p> <p><u>Professional Engineering Design and Related Services – MOVE ASCENSION INITIATIVE: MA-17-11, Task Order No. 1, C. Braud Road Safety Widening (LA 73 – Bluff Rd.), Ascension Parish, LA.</u> Approximately 1 mile of safety widening along C. Braud Rd. and adding turning lanes on LA 928 onto C. Braud Rd. Design includes Roadway, Drainage and Sequence of Construction. HEI Project No. 12-031-13</p> <p><u>SPN H.972104 US 190 Sidewalk Improvements (US 11 (Front St.) to 14th St.), Slidell, LA -</u> Mr. Guidry provided Engineering Support for the preparation of Plans (letter size) and Specifications for the removal of Existing Sidewalks and Pedestrian Signals and replace with updated ADA compliant sidewalks, Handicap Ramps and Pedestrian Signals</p>	

Construction Value of approximately \$500,000. HEI Project No. 12-090-11

SPN H.011007 Chateau Blvd Resurfacing, Jefferson Parish, LA. : Mr. Guidry provided Engineering Support for the preparation of the design of a resurfacing project for 0.75 miles of a boulevard section, which included Plans and Specifications for Milling and Asphalt Concrete Overlay, Base Course Replacement and Curb and Gutter Replacement. Construction Value of \$1.2 million. HEI Project No. 12-092-12

10. Brief résumé of key persons anticipated to work on this project

a. Name, title & domicile Stephen F. Urquhart • Drafting • Prairieville, LA	b. Position or Assignment for this project Drafting and AutoCAD / Microstation Services
c. Name of firm by which employed full time HEI Hartman Engineering, Inc. <i>Consulting Engineers</i>	d. Years experience: With this firm: <u>24 (1997)</u> With other firms: <u>0</u>
e. Education: Degree(s) / Years / Specialization Assoc. Degree, Drafting/Design (AutoCAD/GIS), Baton Rouge Tech Architecture Courses, University of Southwestern Louisiana	f. Active Registration: Year registered: Branch: State: License No.:
g. Specific experience and qualifications relevant to the proposed project:	

Mr. Urquhart has been a long-time member of HEI. Through his many years of service, he has amassed a wide range of drafting experience. In addition, through the years, he has become a competent design assistant on many diverse and complex projects.

RELEVANT PROJECTS

Reserve Wastewater Treatment Plant (St. John the Baptist Parish Wastewater Retention Pond Conversion to Wastewater Oxidation Treatment Pond), St. John the Baptist Parish, LA- HEI was Sub-Consultant to EES (Oscar Boudreaux, Jr., P.E.) for the conversion of the Reserve Wastewater retention pond to a 3.0 MGD Aerated Lagoon. HEI designed the following portions of the Lagoon: Effluent Pump Station and Force Main, Pipeline Levee Crossing, and all Structural components including Lagoon foundation, Headworks, Pipe Support, Chlorine Building foundation and Effluent Pump Station piping. Coordinated all Geotechnical aspects of the project. HEI also provided all permitting services for DEQ and LDHH approvals. Civil, Mechanical, and Structural engineering design for the expansion of the 3.0 MGD wastewater treatment plant and oxidation pond conversion to an Aerated Lagoon. HEI Project No. 11-023-06

West Bank and Vicinity Hurricane Protection Project – Lake Cataouatche pumping Station to Segnette State Park, Phase 2. First Lift, Jefferson Parish, LA (WBV 15a.2)- Design Quality Control Plan (DQCP), Safety Plan, design, construction documents (Plans and Specifications), cost estimating, engineering during advertisement, engineering during construction and ROW drawings for the second lift of a 20,250 linear foot segment of the hurricane protection system from Lake Cataouatche Pumping Station to the Segnette State Park (“Westwego to Harvey Canal, Louisiana Hurricane Protection Project, Lake Cataouatche Area”). HEI No. 11-108-04

LADOTD SP 700-26-0234, 826-44-0027; Hickory / Hickory Avenue Extension (LA 48 - Mounes), Route LA 3154, Jefferson Parish, LA.- Design included performing checks on vertical and horizontal alignment, hydraulic design, quantity computations, coordination between U.S. Army Corps of Engineers Pump to the River project and Entergy’s Transmission Towers, and corrections to reflect current 2006 specifications and current bid items. HEI Project No. 12-092-06

SPN No. H012884: LADOTD - Woodmere Boulevard Panel Replacement, Jefferson Parish, LA.- This project was designed under HEI’s previous LADOTD’s Pavement Preservation Retainer. The project required concrete panel replacements determined during design, along Woodmere Boulevard from Lapalco Boulevard to Eastview Drive (1.15 miles). Curb replacement was also considered due to adjacent panel replacements. Additionally, restoration of loop detectors, new pavement markings, and ADA compliance at curb ramps and cross walks were designed as well. Construction value is approximately \$3 million. HEI Project No. 12-092-13-10

Sauve Road Drainage Improvements, Jefferson Parish, LA. Design and construction administration for subsurface drainage improvements to the Sauve Road area consisting of the construction of a drainage pump station and associated force main and gravity line installations and any street work and utility adjustments necessitated by the work. HEI incorporated previous studies and modeling efforts provided by Jefferson Parish to our own investigations in order to determine the best solution to drainage problems in the area, and coordinated the design with drainage improvements being designed by others in the adjacent Hillings Ditch area. The Sauve Road improvements shall be complete and in place to receive Hillings Ditch improvements. HEI Project No. 13-014-77

(City/Parish DPW Project No. 09-GS-UF-008), Sanitary Sewer Overflow (SSO) 25th – North Acadian, CGN-C-0002, Baton Rouge, LA. Mr. Urquhart provided CAD services and support; the project involved sanitary sewer overflow upgrades which included the design and installation of approximately 13,000 linear feet of gravity sewer with diameters of 15” through 24”. Project included LADOTD and C.N. Railroad permitting. Of particular note, design was 100% Complete within 7 months (including Survey and Geotech) of Notice to Proceed due to the request of City/Parish. (HEI Project #12-093-09)

Soniat Canal Improvements, Jefferson Parish, LA. Federally funded project under the Southeast Louisiana Urban Flood Control (SELA) program that involves improving drainage along a major north-south running drainage canal via hydraulic studies, DDRs, design, geotechnical investigations, preparation of plans and specifications, construction management and resident inspection. This project will increase the capacity of Soniat Canal from Canal No. 3 to West Metairie Avenue in Metairie, LA from 3,000 cfs to 5,200 cfs. This involved designs for U-shaped concrete flumes, utility relocations, and sheet piling transitions in seven separate bid packages: 1. Canal No. 3 to Veterans Memorial Boulevard – 750 ft in length, lined with concrete flume; 2. Veterans Memorial Boulevard vehicular bridge replacement – 300 ft in length with three box culverts (each 18’H x 36’W); 3. Veterans Memorial Boulevard to West Napoleon Boulevard – 3,500 ft total length, lined with concrete flume; 4. West Napoleon Avenue vehicular bridge replacement – 400 ft in length; 5. West Napoleon Avenue to Lynette Drive – 1,100 ft long. ; 6. Lynette Drive to Lester Street – approx. 2,900 ft long; 7. Lester Street to West Metairie Avenue – approx. 450 ft long. The total construction cost is estimated to be \$155 M. HEI Project No. 11-014-55

North Natchez Drainage, Natchez, MS. Provided all drafting services for drainage hydraulic modeling, design and construction administration of North Natchez Surface Water Improvements in Natchez historic downtown. HEI Project No. 21-017-02

LADOTD SP 742-26-0030 (C), 742-26-003 (EA); Lapalco Blvd., US 90 to Segnette, Jefferson Parish, LA. Provided all drafting services for design of 11,000 feet of a 4-lane, divided median rural roadway. Project includes drainage, signals, widening of bridge, and addition of shoulders to existing lanes and design of two new lanes, with a new bridge. The estimated construction cost is \$8.0 million. HEI Project No. 11-014-53

LADOTD SP 742-26-0032 (C), 742-26-003 (EA); Lapalco Blvd., Segnette Boulevard to Tanglewood Drive, Jefferson Parish, LA. Provided all drafting services for design of 4,000 feet of rural roadway widening and construction of two new lanes. Project includes drainage, bridges, and signals, as well as design of new high-rise bridge over Bayou Segnette. HEI Project No. 11-014-53

LADOTD SP 700-26-0234, 826-44-0027, Hickory Avenue (LA 48 - Mounes), Rt LA 3154, Jefferson Parish, LA. Provided all drafting services to prepare preliminary and final construction plans for LA 3154; 4-lane urban divided highway with a subsurface drainage system; constructed within existing right-of-way. HEI Project No. 12-092-06

LADOTD SP 700-25-0109, 023-06-0060 (Construction); Hilltop - Quitman, Route US 167, Jackson Parish, LA. Provided all drafting services to develop preliminary design plans per DOTD standards for a 4-lane, urban-divided highway with slab-span bridge and an open ditch drainage system. HEI Project No. 12-092-07

LADOTD SP 744-26-0016, FAP STP ENH-2600(502), JP 97-025-RB; West Bank Levee Bike Path, West Mississippi River Guide Levee, Jefferson Parish, LA. Provided all drafting services for design of a seven-mile asphalt bike path with ramps on the west bank levee from the St. Charles Parish line to Avondale. Funded with enhancement funds. HEI Project No. 11-014-53-70

Erosion Control Grand Isle State Park, SP 06-264-02B-03; Jefferson Parish, LA. Provided all drafting services for project involving modeling of the existing breakwaters in front of the beach along the State Park at Grand Isle to determine the optimum layout to protect the beach and placement of sand to restore beach lost to erosion. HEI Project No. 12-030-02

Tournament Players Club Parking Lot, Jefferson, LA. Provided all drafting services for aggregate parking over 3.5 acres at TPC for the New Orleans Classic. HEI Project No. 11-014-50-30

LADOTD SP 700-36-0142, Almonaster Avenue Bridge over Inner Harbor Navigational Canal, Orleans Parish, LA. Provided all drafting services for environmental & civil engineering services involving floodwalls and floodgates, roadway and utility relocations. HEI Project No. 11-022-03

11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 projects)

Project #01

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address and telephone number	e. Completion date or Percent Complete & cost in thousands
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a. Long Term Sewer Hazard Mitigation Program, Jefferson Parish, LA HEI Project No. 11-012-11

- b. In the wake of Hurricane Katrina, the US Army Corps of Engineers hired Hartman Engineering, Inc., in association with Camp, Dresser & McKee to perform a study to determine the vulnerabilities of Jefferson Parish's sewer system and to recommend best methods to mitigate future flood damages to the system. Field data collection was conducted at all of the Parish's 500 plus sewer pump stations and four WWTPs. SLOSH model output of surge elevations along the Louisiana and Mississippi Gulf Coast and output from US COE surge models were analyzed along with Parish's terrain, land use, census and sewer pump station data to determine vulnerabilities and develop mitigation recommendations. The mitigation measures recommended included permanent generators at 44 sewer pump stations, temporary generator receptacles at 205 pump stations, 39 mobile generators, consolidation of sewer pump stations, and auxiliary power capacity at WWTPs for a total estimated cost of \$53.5 million.

- c. HEI conducted inventory of Parish's wastewater infrastructure immediately after Hurricane Katrina, developed long term hazard mitigation measures, developed GIS maps of damage areas and recommended improvement actions, all data to be subsequently utilized by the Parish to secure funding from FEMA Hazard Mitigation Grant Program (HMGP).

Firm's Role: Developed GIS maps of damage areas and recommended improvement actions

% of Work Performed in Louisiana: 100%

Members Involved: Jared Monceaux, P.E., Rolland Mura, P.E., Danielle Connelly, P.E.,
Stephen Urquhart



FEMA

- d. US Army Corps of Engineers, N.O. District/ CDM-Smith, Inc.
P. O. Box 60267
New Orleans, LA 70118

- e. **START:** 2008 **END:** 2008

CONSTRUCTION COST: \$283 (Fee)

11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 projects)

Project #02

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address and telephone number	e. Completion date or Percent Complete & cost in thousands
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a. Phase II Gravity Sewer SSES (FEMA PW 19124), and Point Repairs (FEMA PW 18971), Area B, St. Bernard, LA

HEI Project No. 11-025-08

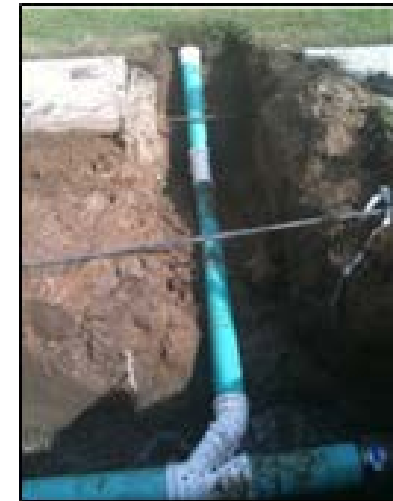
- b. As a result of damages caused by Hurricane Katrina, St. Bernard Parish proposed to clean, televise, and repair their gravity sewer system east of Highway 47 through funding provided by FEMA. Rehabilitation work to the gravity sewer system consisted of open cut point repairs to damaged portions of gravity mainlines, full gravity line replacement by pipe bursting, house sewer service lateral replacement, and manhole lining and repair/replacement. Additionally, all roadway replacement incidentals to required sewer repairs were performed through this project. Over 50,000 linear feet of gravity sewer and 25,000 square yards of roadway have been repaired.
- c. HEI was responsible for reviewing sewer evaluation survey results and FEMA recommendations to prepare work directives for the Contractor and to inspect the work as it was completed. Conducted Design, Const. Admin (CA), Resident Inspection (RI) Services for sanitary sewer rehab for an encompassing East southeast of Paris Rd to Bayou Rd at the Southern end.

**Firm's Role:** Design, Construction Administration, and Resident Inspection Services**% of Work Performed in Louisiana:** 100%**Members Involved:** Jared Monceaux, P.E., Rolland Mura, P.E., Bryan K. Joseph, E.I.

- d. St. Bernard Parish
8201 Judge Perez Drive
Chalmette, LA 70043

Project Manager: James N. Seal Jr.
504-400-1613s

- e. **START:** 2010 **END:** 2015

CONSTRUCTION COST: \$26,000,000

11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 projects)

Project #03

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address and telephone number	e. Completion date or Percent Complete & cost in thousands
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a. Hurricane Katrina Sewer System Damage Assessment, Jefferson Parish, LA HEI Project No. 11-041-15

- b.** Hartman Engineering, Inc. in association with Digital Engineering and Camp, Dresser & McKee assisted the Jefferson Parish Sewerage Department in assessing the sewer system damage resulting from Hurricane Katrina and returning the sewer collection system to pre Katrina levels of operation. The team also prepared FEMA project worksheets (PW).
- c.** HEI conducted the emergency assessment per FEMA requirements to facilitate Federal cost reimbursement to the Parish.

Firm's Role:**% of Work Performed in Louisiana:** 100%**Members Involved:** Jared Monceaux, P.E., Rolland Mura, P.E., Sushil K. Jain, P.E., Danielle Connelly, P.E., Stephen Urquhart

- d.** Jefferson Parish
Dept. of Sewerage
1221 Elmwood Park Blvd.
Jefferson, LA 70123



- e.** **START:** 2005 **END:** 2005
CONSTRUCTION COST: \$250 (Fee)



11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 projects)

Project #04

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address and telephone number	e. Completion date or Percent Complete & cost in thousands
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a. Reserve Wastewater Treatment Plant (St. John the Baptist Parish Wastewater Retention Pond Conversion to Wastewater Oxidation Treatment Pond), St. John the Baptist Parish, LA HEI Project No. 11-023-06

b. Project involved converting a wastewater detention pond into a 3.0 MGD wastewater aerated lagoon. HEI was responsible for all environmental permitting for USACE, Ponchartrain Levee District, CPRA and Coast Guard. Wetland Delineation was also provided.

c. HEI was sub-consultant to EES (Oscar Boudreaux, P.E.) for the conversion of the Reserve WW retention pond to a 3.0 MGD Aerated Lagoon. HEI designed the following portions of the Lagoon: Effluent Pump Station and Force Main, Pipeline Levee Crossing and all Structural Components including Lagoon foundation, Headworks, Pipe S, Chlorine Building foundation and Effluent Pump Station piping. Coordinated all Geotechnical aspects of the project. HEI also provided all permitting services for DEQ and LDHH approvals.

HEI responsibilities included:

- WWTP/Structural
- Pump Station/Structural
- Effluent Pump Station/Civil & Mechanical
- Effluent Force Main/Civil & Mechanical
- Permitting – WW Discharge, LDEQ
- Permitting – Levee Crossing & Coastal Zone, COE & LDNR
- Effluent Levee Crossing



Firm's Role: Permitting, Structural, Effluent Pump Station, and Forcemains Levee Crossings; Sub-Consultant to EES

% of Work Performed in Louisiana: 100%

Members Involved: Jared Monceaux, P.E., Oscar Boudreaux, Jr., P.E., Rolland Mura, P.E., Larry Shriver, Sushil K. Jain, P.E., Danielle Connelly, P.E., Stephen Urquhart

d. St. John the Baptist Parish 1801 W. Airline Hwy LaPlace, LA 70068 985-652-9569	Prime Consultant:	Environmental Engineering Services, Inc. (EES) 610 Belle Terre Boulevard LaPlace, LA 70068 Oscar J. Boudreaux, Jr., P.E. oboudreaux@eesinc.net 985-653-0185
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e. START: May 2015 **END:** October 2015
CONSTRUCTION COST: \$9,000,000

11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 projects)

Project #05

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address and telephone number	e. Completion date or Percent Complete & cost in thousands
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a. CDBG Environmental Review of projects funded by Hurricanes Gustav and Ike Disaster Recovery Grants, Jefferson Parish, LA

HEI Project No. 11-014-79

- b. HEI worked closely with Jefferson Department of Community Development and the Louisiana State CDBG to obtain environmental clearance on multiple projects throughout unincorporated Jefferson Parish and its incorporated entities. The total amount of funding was \$27,143,935, which included wastewater treatment plants, sewer pump stations, street repairs, water infrastructure repairs, stormwater detention pond, drainage improvements, Art Gallery and auditorium.
- c. HEI met and coordinated with the State's CDBG staff, prepared NEPA documentation (environmental review records or ERRs), conducted solicitation of views (SOV) procedure, conducted public review process, forged close working relationship with environmental reviewers, and successfully obtained the requisite environmental clearances. Levels of NEPA documentation - Exemption, CE, and EA. Of special note was the securing of environmental clearance for a project that was under LDEQ's Compliance Order deadlines.

Firm's Role: CDBG Environmental Assessments and SOV**% of Work Performed in Louisiana:** 100%**Members Involved:** Rolland Mura, P.E., Bryan K. Joseph, E.I.**d. Jefferson Parish***Project Manager:* Tamithia Shaw, Director

Dept. of Community Development
1221 Elmwood Park Blvd., Suite 605
Jefferson, LA 70123

504-736-6262
tshaw@jeffparish.net

e. START: 2013 **END:** 2014**CONSTRUCTION COST:** \$446 (Fee)

11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 projects)

Project #06

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address and telephone number	e. Completion date or Percent Complete & cost in thousands
<p>a. North Wastewater Treatment Plant Master Plan Plant Improvements Project (DPW Project No. 13-TP-MS-0047), Baton Rouge, LA. HEI Project No. 12-093-12</p> <p>b. Sub-consultant portion of this project which includes an interdisciplinary plan for capacity and performance improvements and rehabilitations at the plant. Interdisciplinary coordination efforts and various permit requirements and application preparations (USACE wetlands, DHH, DEQ, Ponchartrain Levee District, CPRA, etc.), are also part of HEI responsibilities for this project. HEI is a Sub-consultant to CDM-Smith on this project</p> <p>c. HEI responsibilities for this project include coordinating a proposed improvements master plant layout, design and layout of various types of yard piping, proposed potable water facilities, drainage analysis and design, grading, geometric roadway and pavement designs, striping and traffic control, and erosion control.</p> <p>Firm's Role: Sub-Consultant to CDM-Smith</p> <p>% of Work Performed in Louisiana: 100%</p> <p>Members Involved: Jared B.Monceaux, P.E., Danielle B. Connelly, P.E., Larry Shriver, Stephen F. Urquhart</p> <p>d. City of Baton Rouge Public Works Sewer Engineering 1100 Laurel Street, Room 130 Baton Rouge, LA 70801</p> <p>Prime Consultant: CDM-Smith 445 North Boulevard, Suite 850 Baton Rouge, LA 70802</p> <p>SUBS:</p> <ul style="list-style-type: none"> • Digital Engineering • Gulf South Engineering and Testing, Inc. • H. Davis Cole & Associates, LLC • Hartman Engineering, Inc. • Shread-Kuyrkendall & Associates, Inc. • Gibson Engineering, Inc. • BCG Engineering & Consulting, Inc. in association with King Engineering Associates, Inc. <p>e. START: 2014 END: 2017</p> <p>ENGINEERING FEES: TOTAL PROJECT: \$5,000,000.00 HEI'S RESPONSIBILITY: \$600,000.00</p>	 			

11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 projects)**Project #07**

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address and telephone number	e. Completion date or Percent Complete & cost in thousands
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a. West Bank and Vicinity Hurricane Protection Project – Lake Catouatche Pumping Station to Segnette State Park, Phase 2. First Lift, Jefferson Parish, LA (WBV 15a.2) HEI Project No. 11-108-04

- b.** Under the implementation of work recommended in the “Westwego to Harvey Canal, Louisiana Hurricane Protection Project, Lake Cataouatche Area”, the levees in the Lake Cataouatche Hurricane Protection System are being raised to provide additional hurricane protection to meet the 2057 (1%) level of protection also known as the 100-year level of protection.

This project includes design and construction services for the second lift of a 20,250 linear foot segment of the hurricane protection system from Lake Cataouatche Pumping Station to the Segnette State Park.

- c.** HEI's responsibilities were Design Quality Control Plan (DQCP), Safety Plan, design, construction documents (Plans and Specifications), cost estimating, engineering during advertisement, engineering during construction and ROW drawings, resident inspection.

Size: 20,250 linear feet of reinforced and un-reinforced earthen levee in Jefferson Parish, Louisiana

Firm's Role: J-V Prime

% of Work Performed in Louisiana: 100%

Members Involved: Jared Monceaux, P.E., Rolland Mura, P.E., Danielle Connelly, P.E., Bryan K. Joseph, E.I., Stephen Urquhart



- d.** COE (N.O. District)
West Jefferson Levee District

Project Manager: Ellsworth Pillie (COE)
504-862-2768

- e.** **START:** 2009 **END:** 2010

CONSTRUCTION COST: \$63,600,000

11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 projects)

Project #08

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address and telephone number	e. Completion date or Percent Complete & cost in thousands
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a. DPW FEMA No. 21032, Contract No. 1266, MK19-786, Project No. 2019-RR141, RR141 Pontchartrain Park Group B (FRCP), New Orleans, LA (HEI Project No. 11-076-09B)

- b.** Project technical design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15" to 54", circular and arch), and design of water and sanitary sewer installations.

Coordinated with subconsultant on surveying, preliminary design, final design, bidding, construction administration, and resident inspection. Provided design QA/QC at preliminary and final design milestones. Project work located along Mithra St., Piety Dr., Desire Dr., and Odin St. (*Final Design On-Going*)

- c.** HEI provided professional engineering design services for FEMA-eligible street repairs and utility installations on assigned streets within the Pontchartrain Park neighborhood. Improvements include the following design features: roadway pavement and base construction complete with curbs, sidewalks, drives, and ADA handicapped ramps; subsurface drainage, water, and sanitary sewer installation. Final grades designed to be compatible with adjacent properties and existing pavements and provide for a positive flow of water towards catch basins.

Firm's Role: Prime

% of Work Performed in Louisiana: 100%

Members Involved: Jared B. Monceaux, P.E., Rolland A. Mura, P.E., Danielle B. Connelly, P.E.
Sundararaja C. Rao, P.E., Connor D. Guidry, E.I., Stephen F. Urquhart
(CAD)

- d.** City of New Orleans
Sewerage and Water Board of New Orleans
625 Saint Joseph Street
New Orleans, LA 70165

Project Manager: Ahmed Hamed, E.I.
504-494-1412

- e. START:** 2017 **END:** 2021

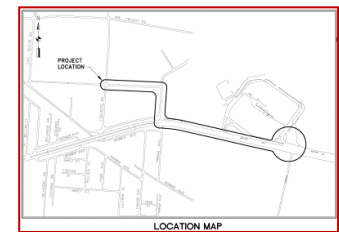
CONSTRUCTION COST: \$4,412,000



11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 projects)

Project #09

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address and telephone number	e. Completion date or Percent Complete & cost in thousands
a. Hanson City Area Sewer Lift Station Improvements for LS 4102 (Airline Drive/Minden St.) and LS 4103 (Firehouse/Hanson City), Kenner, LA HEI Project No. 11-011-77,A	b. PHASE I: Lift Station 4103 (Firehouse Rd.) proposed improvements include installing new pumping equipment and associated controls, piping, electrical work, repairing the roof of the existing building on site, and converting the station to an underground type station. The capacity of LS4103 will be increased from 1,280 GPM maximum (2 pumps running) to 2,000 GPM maximum (2 pumps running, 1 pump stand by). Lift Station 4102 (Airline and Minden) improvements include installing new pumping equipment and associated controls, piping, electrical work, and demolishing the existing building on site. The capacity of LS4102 will be increased from 745 GPM maximum (2 pumps running) to 800 GPM maximum (1 pump running, 1 pump stand by). This project is partially funded by U.S. Department of Housing and Urban Development Community Development Block Grant's Hurricanes Gustav/Ike Disaster Recovery Grant. PHASE II: The proposed work consists of the replacement of the existing Firehouse Road (4103) lift station asbestos concrete force main with a new 12" I.D. HDPE sewer force main via directional drilling method. The work shall include the installation of air release valves and two tie-in locations (one at Lift Station 4103 and one at the existing discharge manhole location), all located within close proximity to Louis Armstrong International Airport (MSY). This project is partially funded by U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant's Hurricanes Gustav/Ike (CDBG) Disaster Recovery Grant.	c. Firm's Role: Prime % of Work Performed in Louisiana: 100% Members Involved: Jared B.Monceaux, P.E., Rolland A. Mura, P.E., Bryan K. Joseph, E.I., Stephen F. Urquhart (CAD)	d. City of Kenner Dept. of Public Works 1905 24 th Street Kenner, LA 70062	e. START: Phase I: 2014 Phase II: 2014 END: Phase I: 2016 Phase II: 2020 FEES: TOTAL PROJECT: HEI'S RESPONSIBILITY: Phase I: \$865 (Construction) Phase I: \$187 (Fee) Phase II: \$863 (Estimated) Phase II: \$108 (Fee)



11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 projects)

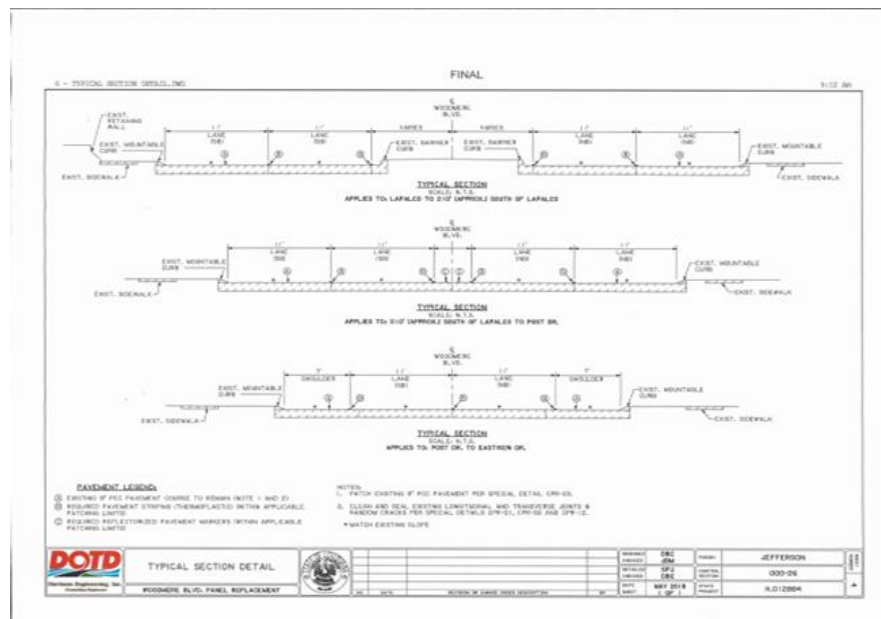
Project #10

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address and telephone number	e. Completion date or Percent Complete & cost in thousands
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a. **S.P.N. H.012884.5, F.A.P. No. H012884, Woodmere Boulevard Panel Replacement, Jefferson Parish, LA**

HEI Project No. 12-092-13-10

- b. The project required panel replacements determined during design. Curb replacement as required due to adjacent panel replacements or as determined during the design process due to existing damage was required. Additionally, restoration of loop detectors, new pavement markings, and ADA compliance at curb ramps and cross walks were installed as well. The project did not include improvements to subsurface drainage or roadway elevation adjustments, sidewalks, driveways, or signage. This project was designed under HEI's previous LADOTD's Pavement Preservation Retainer.
- c. HEI provided design services, including identifying areas of required panel and/or curb replacement, and prepared plans for panel replacements along existing Woodmere Blvd. from Lapalco Blvd. to Nathan Kornman Dr. in Jefferson Parish. The length of the project is approximately 1.50 miles. The existing roadway is concrete with mountable curbs for the full length of the project, with intermittent locations of barrier curb. Between Lapalco Blvd. and Post Dr., the existing roadway is a striped four lane road with two lanes each in opposing directions without a median, except at the Lapalco Blvd. Intersection. Between Post Dr. and Birchfield Dr., the existing roadway is a striped two-lane road with parking shoulders. Between Birchfield Dr. and Nathan Kornman Dr., the existing roadway is a two-lane road without shoulders or striping, except where striped with a double-yellow centerline between Birchfield Dr. and Chriswood Dr.

**Firm's Role:****% of Work Performed in Louisiana:** 100%**Members Involved:** Jared Monceaux, P.E., Sundarararja C. Rao , P.E., Danielle Connelly, P.E., Connor D. Guidry, E.I., Stephen Urquhart

- d. Louisiana DOTD
1201 Capitol Access Road
Baton Rouge, LA 70802
- Project Manager:* Melissa LeBas, P.E.
225-379-1039
Melissa.LeBas@la.gov

e. **START:** December 2017 **END:** June 2018**CONSTRUCTION COST:** \$73,300,000

12. All work by firm (all offices) currently being performed for or selected by St. John the Baptist Parish Government (as Prime or Sub-consultant)

a. Project name, and location*	b. Nature of your firm's responsibility (also identify if prime or sub-consultant)	c. Percent complete (by phase/type of work)	d. Contract fees (in thousands)** (by phase/type of work)	
			Total	Remaining
Garyville Sewer Lift Station and Sewer Forcemain to Reserve WWTP	Prime Firm: Decommission Garyville WWTP and install a new Lift Station and 30,000 linear feet of SFM to the Reserve WWTP	0%	TBD	
* For master contracts, list open task orders individually ** Do not include sub-consultant's fees			Total	
			\$0	\$0

13. Use this space to provide any additional information or description of resources supporting your firm's qualifications for the proposed project. This section may also be used to submit proposed prices, hourly rates, specific charges, if required. A maximum of two (2) additional sheets may be utilized to answer this question. All other sheets not specifically requested shall be excluded.

Following is our response to Exhibit B Selection/Scoring Criteria listed in order from the RFQ:

1. KEY PERSONNEL QUALIFICATIONS AND EXPERIENCE (0-30 points)

- Relevant experience of key personnel with similar projects
- Work quality, cost control, and completion of work on schedule.

HEI's Statement of Qualifications for Engineering Services to the St. John the Baptist Parish will demonstrate that our firm and key team members are experienced, qualified, and have the capabilities to provide the services advertised. We have previous experience working in Reserve on a Wastewater Treatment Plant project, along with many relevant projects in the surrounding parishes.

2. RELEVANT EXPERIENCE AND REFERENCES (0-30 points)

- Firm's experience providing the same services within the past ten years
- References submitted regarding specific experience, resources, and management.
- Compliance with policies, procedures and requirements as stated in the RFQ.

HEI was an integral part of disaster recoveries for Hurricanes Katrina and Gustav for Jefferson Parish, Orleans Parish, St. Bernard Parish and St. Tammany Parish. HEI has more than thirty-year tenure including all aspects of design, construction, and inspection. We offer the following references for your review and invite you to contact them directly for a discussion of HEI's capabilities.

Ignacio Harrouch, P.E., Chief of Construction Coastal Protection Restoration Authority P.O. Box 44027 Baton Rouge, LA 70804 225-342-4501	Mike Enlow, Project Engineer Ascension Parish DPW 42077 Churchpoint Road, Gonzales, LA 70737 225-450-1377	Mark Drewes, P.E., Dir. of Public Works Jefferson Parish 1221 Elmwood Park Blvd., Ste. 9004 Jefferson, LA 70123 504-736-6783
Jackie Baumann, P.E., City Engineer, City of Gonzales 120 S Irma Blvd. Gonzales, LA 70737 225-647-9589	Neil Schneider, P.E., Dir. of Capital Projects Jefferson Parish 1221 Elmwood Park Blvd., Ste. 906 Jefferson, LA 70123 504-736-6833	Mike Lockwood, MSPH, Dir. of Sewerage Jefferson Parish 1221 Elmwood Park Blvd., Ste. 803 Jefferson, LA 70123 504-736-6661
Ryan Foster, P.E., Project Engineer Orleans Levee District 6920 Franklin Ave. New Orleans, LA 70122 504-286-3100	Joan M. Exnicios, Chief of Planning US Army Corps of Engineers, N.O. District P.O. Box 60267 New Orleans, LA 70160 504-862-1760	Jason LaCombe, P.E., Assistant Road Design Engineer Administrator, LADOTD 1201 Capitol Access Rd. Baton Rouge, LA 70802 225-379-1046
Melissa LeBas, P.E., Urban Systems Project Manager LADOTD 1201 Capital Access Road, Room S-616 Baton Rouge, LA 70802 225-379-1046		

3. UNDERSTANDING OF PROJECT / FAMILIARITY (0-20 points)

- Firm's understanding of project scope
- Firm's methodology for accomplishing the scope of work (e.g., ability to meet client's objectives including scope, schedule, quality and related factors; collaborative coordination with parish; coordination with outside agencies and entities; other aspects of work requirements deemed important by the consultant, etc.)

HEI provides the engineering judgment and depth of experience, in addition to the latest computer technology to provide expertise during the project development stage. We realize that this initial phase of project development has a significant impact on the project delivery system. Successful completion of this phase can:

- ❖ Streamline initiation of design and completion of project construction.
- ❖ Allow better allocation of limited funding by providing project construction costs which are more accurate, and are less subject to change.
- ❖ Provide projects which, when completed, provide greater benefit to the public, both in safety, capacity, and economic development.

With this in mind, we have implemented a stringent Project Approach program, outlined below:

Project Scope. The first action taken by HEI's Project Manager upon award of project is to develop the scope of the project. This scope will include a detailed listing of project tasks to be accomplished, the logical order to accomplish these tasks, and a listing of project deliverables. This scope is typically submitted, or at a minimum discussed, with the project owner to verify that HEI management and the owner see the project, the required tasks, and the final products the same way.

Project Schedule. The second action taken by HEI's Project Manager is to develop a project schedule. Each task listed in the scope is given a start date, an estimated duration, and an estimated finish date. Once again this is forwarded to the owner's representative for approval. The initial schedule is set to the owner's requirements.

Project Budget. The Project Manager, based upon the project scope and project schedule, develops two budgets: one budget for the resources required to produce the finished project on schedule, and the second, in most cases, is a preliminary estimate of probable cost of construction. The first budget is submitted and usually used as the basis of a fee negotiation. Once completed, the project budget and schedule are the Project Manager's guide to bring a quality project in on time. The second estimate, the probable cost of construction, is also a guide agreed to by the owner of the project design. It is referred to, updated, and reviewed at major milestones as the project progresses to completion.

Quality Control/Quality Assurance. QC/QA comprises an integral part of our design and project management process. Our QC/QA process is summarized as follows:

General. Ensuring a quality product is a primary goal of the firm. QC/QA is required for public safety as well as client satisfaction. The Manager of the firm QC/QA program is the president of the firm; subcontractors are included in the QC/QA program. All QC/QA plans shall include an independent check, a peer review, supervisory executive review, and a review by either the Owner or the Firm President.

Check. All computations, calculations, and drawings shall be checked by a competent qualified member of the team other than the originator and so marked.

Peer Review. All products shall be reviewed at the working level by an uninvolved, qualified team member. The results of the review shall be resolved before going to the Executive Review. A record of the checks and peer review shall accompany the product to the executive review.

Executive Review. The Project Manager shall ensure that the checks and reviews are complete, and resolve any unresolved issues from the review process. Cost estimates will be checked to ensure proper order of magnitude, and the project will then advance to the Owner or Firm President.

Owner/President Review. The Owner/President shall ensure that the checks and reviews are complete, resolve any outstanding issues, review the product, and determine if any changes are required in the QC/QA procedures.

4. AGENCY PROJECT EXPERIENCE (0-10 points)

- Experience with User Agencies (Parish, State, Federal), local criteria, codes, policies, procedures, and standards to successfully facilitate project completion.

Hartman Engineering, Inc., (HEI) was established in July 1986 as a consulting engineering firm specializing in planning, design, and construction management services for civil and environmental engineering projects. HEI has (and is currently) provided planning, design and construction management services for area clients:

- Municipalities and Parishes throughout Louisiana, including **St. John the Baptist Parish**, Jefferson Parish, City-Parish of East Baton Rouge, St. Charles Parish, Terrebonne Parish, Orleans Parish, Ascension Parish, St. Tammany, and Plaquemines Parish.
- Cities including New Orleans, Kenner, and Slidell, LA, and Picayune, MS.
- Specific area agencies including the Regional Planning Commission of New Orleans, the New Orleans Sewerage & Water Board, the Orleans Levee Board, the East Jefferson Levee District, and Southeast LA Flood Protection Authority – West.
- LA State agencies including the Louisiana Dept. of Natural Resources, Louisiana Dept. of Transportation & Development (LADOTD), and the Louisiana Dept. of Environmental Quality (LDEQ). Federal agencies including the U.S. Army Corps of Engineers (New Orleans District) and Housing and Urban Development (HUD).
- Airports such as the Baton Rouge Metropolitan Airport, the Lakefront Airport (New Orleans) and the Louis Armstrong New Orleans International Airport.

The firm's offices are fully ensured and licensed to provide professional engineering services. We are equipped with the latest in computer aided design, communications technologies, and Geographic Information System (GIS) that enable us to provide responsive and economical design and construction services. This document includes a description of our staff's capabilities and a discussion of HEI's project experience. HEI currently employs engineers, scientists, designers, CAD technicians, construction inspectors and clerical staff with experience in:

- Wastewater, water, stormwater, and solid waste facilities, planning, & design.
- Bridge design, flood protection and construction management.
- Roadway, sidewalk & associated utility services.
- Flood protection and drainage – studies, numerical modeling, design, construction administration, permitting and funding.
- Computerized graphics, mapping, and GIS.
- Construction Management and Resident Inspection Services.
- Commercial land development permitting, planning, and design.

HEI is proud of our past performance and service to previous, present, and continuing clientele, and none of HEI's past project work have been deemed to be at fault from design inadequacies, time delays and/or cost overruns. Our reputation in the field is excellent, and we enjoy a high rate of repeat business.

HEI recognizes that quality, accuracy and timely work in both the design and construction phases, are the keys to a successful project. This is our commitment to the success of the projects you assign us.

5. CURRENT WORK LOAD (0-10 points)

- Number and size of projects currently under contract
- Available staff for duration/time frame to complete project.
- Size of firm and available key personnel relative to the size of the project.

The number and size of projects currently under contract for HEI is able to incorporate the additional capacity of St. John the Baptist Parish projects. The HEI staff is available to start work immediately upon receiving the award and Notice to Proceed.

HEI is proud of our past performance and service to previous, present, and continuing clientele, and none of HEI's past project work have been deemed to be at fault from design inadequacies, time delays and/or cost overruns. Our reputation in the field is excellent, and we enjoy a high rate of repeat business.

HEI recognizes that quality, accuracy and timely work in both the design and construction phases, are the keys to a successful project. This is our commitment to the success of the projects you assign us.

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
Hartman Engineering, Inc.	Mr. B.K. Sneed 527 West Esplanade Avenue, Suite 300 Kenner, LA 70065

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0001344	ACTIVE	09/25/1986	03/31/2022	Mr. Jared Blayne Monceaux # PE.0032202 - Active Mr. Rolland Anthony Mura # PE.0014997 - Active



City of Gonzales

120 SOUTH IRMA BOULEVARD • GONZALES, LOUISIANA 70737 • PHONE (225) 647-2841 • FAX (225) 647-9557

BARNEY D. ARCENEUX
MAYOR/ADMINISTRATOR

DAVID J. GUITREAU-Division A
COUNCILMAN
DRAINAGE COMMISSIONER

KIRK J. BOUDREAU-Division B
COUNCILMAN
MAYOR PRO-TEMPORE
TREASURER
STREETS COMMISSIONER
AEDC LIAISON

HAROLD L. STEWART-Division C
COUNCILMAN
FIRE-DEPARTMENT COMMISSIONER
SANITATION COMMISSIONER

TYLER J. TURNER-Division D
COUNCILMAN
ASSISTANT TREASURER
UTILITIES COMMISSIONER

NEAL M. BOURQUE-Division E
COUNCILMAN
RECREATION COMMISSIONER
TOURIST COMMISSIONER

SHERMAN D. JACKSON
CHIEF OF POLICE

TRACEY N. NORMAND
FIRE CHIEF

CLAY A. STAFFORD
CITY CLERK
FINANCE DIRECTOR

ERIN LANOUX
CITY ATTORNEY

May 31, 2017

Mr. Jared Monceaux P.E., President
Hartman Engineering, Inc.
16563 Airline Highway, Suite A
Prairieville, LA 70769

Subject: City of Gonzales, Ascension Parish
LA 30: Turn Lanes @ S. Purpera & S. Hodgeson
LADOTD S.P.N. H.011490

Dear Mr. Monceaux:

I am writing to acknowledge and commend you for the excellent performance of Hartman Engineering, Inc. on the subject project and the resultant improvements to the intersection of LA 30 and Purpera in the City of Gonzales. Your firm's planning, design, and engineering services will ultimately lead to improved traffic safety and increased efficiency thru the intersection. Hartman Engineering has been responsive and adaptive to the needs of the City and its citizens in addressing the growing and high profile traffic conditions in Gonzales.

HEI and its key staff have provided excellent services for this transportation project and have fulfilled all task responsibilities in a quality, timely, and professional manner. The commitment of your design team and staff was integral to the success of the project and keeping the improvements on schedule and within budget.

The City of Gonzales is honored to have your firm as a valued member of our team. I would whole-heartedly recommend Hartman Engineering for consideration for future transportation projects.

Sincerely,

Jackie Baumann, P.E.
City Engineer
City of Gonzales, Louisiana

CC: Mayor Barney Arceneaux



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

February 10, 2012

Engineering Division
Control Branch

Mr. B. K. Sneed, CEO
Hartman Engineering, Inc.
527 West Esplanade Avenue, Suite 300
Kenner, LA 70065-2568

Dear Mr. Sneed:

The US Army Corps of Engineers would like to take this time to extend both our gratitude and appreciation to your firm for its contribution towards design and construction of the Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS).

On August 29, 2005, Hurricane Katrina struck South Louisiana resulting in unprecedented devastation. Since that tragic day, the US Army Corps of Engineers and our A-E partners have worked expeditiously to design and construct the HSDRRS.

Your firm's responsibility for one or more actions affiliated with design, planning, modeling, engineering during construction, environmental studies or construction management was instrumental in completing expedited design and construction of the HSDRRS.

The commitment of your firm's leadership and design team was integral to our success in delivering a world class system with functional capability for the 2011 Hurricane Season. Your dedication to quality and delivery has been evident resulting in improved public safety and risk reduction for the greater New Orleans area.

The New Orleans District is truly honored to have your firm as a valued member of our team. Please accept my sincere thanks and the enclosed certificate expressing our appreciation.

ESSAYONS!

Sincerely,

A handwritten signature in black ink, reading "Walter Baummy Jr.", is positioned above the typed name.

WALTER O. BAUMMY JR., P.E.
Chief, Engineering Division

Enclosure



USACE - New Orleans District

Certificate of Appreciation

is presented to

Hartman Engineering, Inc.

For exceptional achievement in support of the Mississippi Valley Division's New Orleans District and the execution of the Hurricane and Storm Damage Risk Reduction System (HSDRRS) mission. The Hartman Engineering, Inc. contractors' professionalism, competence, and initiative were instrumental to the successful execution in surveying of multiple sites critical to the completion of both design and the construction of the HSDRRS project.

Hartman Engineering's outstanding achievement is in keeping with the finest traditions of public service and reflects great credit upon the Hartman Engineering, Inc. team, the U.S. Army Corps of Engineers, and the United States Army.

06 February 2012



**US Army Corps
of Engineers®**
New Orleans District

Edward R. Fleming
Colonel, US Army
Commander, New Orleans District
US Army Corps of Engineers



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

August 4, 2008

Hartman Engineering, Inc.
527 West Esplanade Avenue, Suite 300
Kenner, LA 70065

Subject: Environmental Justice Support for Environmental Compliance for New Orleans Area Hurricane Protection System; St. Charles, Jefferson, Orleans, St. Bernard and Plaquemines Parishes (COE No. W912P8-07-D-0014, Task Order 5)

Gentlemen:

I would like to acknowledge Hartman Engineering, Inc.'s excellent performance on all facets of their ongoing environmental justice support to the Corps' New Orleans area hurricane protection system projects. They have been responsive and adaptive to the various changing conditions and demands of the project and public sensitivity in post-Hurricane Katrina New Orleans. HEI's products and professionalism have had a positive impact on the Corps' efforts to engage the public during this time of rebuilding.

The high profile and complex nature of this project cannot be overemphasized. HEI has done an excellent job in fulfilling the task responsibilities with care towards quality, timeliness, professionalism and public attitudes. Negotiating the myriad interactions between a multitude of public, private and community organizations was handled quite professionally by HEI. Their level of commitment to the project is commendable and I would whole-heartedly recommend HEI be considered for planning projects in the future.

Sincerely,

A handwritten signature in cursive script, reading "Joan M. Exnicios", is positioned above the printed name.

Joan M. Exnicios
Chief, Natural and Cultural
Resources Analysis Section



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Hartman Engineering, Inc.

is Certified-Active as a Small Entrepreneurship with
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 6/22/2021 to 6/22/2022 .

Certification No. 13205

A handwritten signature in black ink, reading "Stephanie Hartman", is written over a horizontal line.

Stephanie Hartman,
Director, Entrepreneurial Services



Division of Small and Emerging Business Development
SEBD CERTIFICATION

Hartman Engineering, Inc.

is hereby certified as a Small and Emerging Business Enterprise.

This certification is valid beginning 6/20/2016 and supersedes any registration or listing previously issued. At any time there is a change in ownership or control of the firm, notification must be made immediately to the Division of Small and Emerging Business Development.

Issued at Baton Rouge, Louisiana 6/20/2016

This certification expires on: 6/20/2026

Certification No. 13205

A handwritten signature in black ink, reading "John W. Matthews, Jr.", written over a horizontal line.

John W. Matthews, Jr.,
Executive Director, Entrepreneurial Services

Creative Engineering Group, LLC

RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT		
(Complete one Section E for each key person.)		
NAME Ray Nolan <i>Owner and Senior Engineer</i>	ROLE IN THIS CONTRACT Electrical Engineering Support	YEARS EXPERIENCE a. TOTAL b. WITH CURRENT FIRM >25 15
FIRM NAME AND LOCATION (city & state): Creative Engineering Group, LLC (New Orleans, LA)		
EDUCATION (Degree & Specialization): BSEE/1991/Electrical Engineering MSEE/1994/Electrical Engineering	CURRENT PROFESSIONAL REGISTRATION (State & Discipline): 1997/Electrical Engineering Louisiana	
OTHER PROFESSIONAL QUALIFICATIONS (publications, organizations, training, awards, etc.): Over 25 years experience in electrical engineering, including power distribution, emergency generators, lighting and controls, fire alarm systems, telephone and data infrasructure, intercom and security systems.		

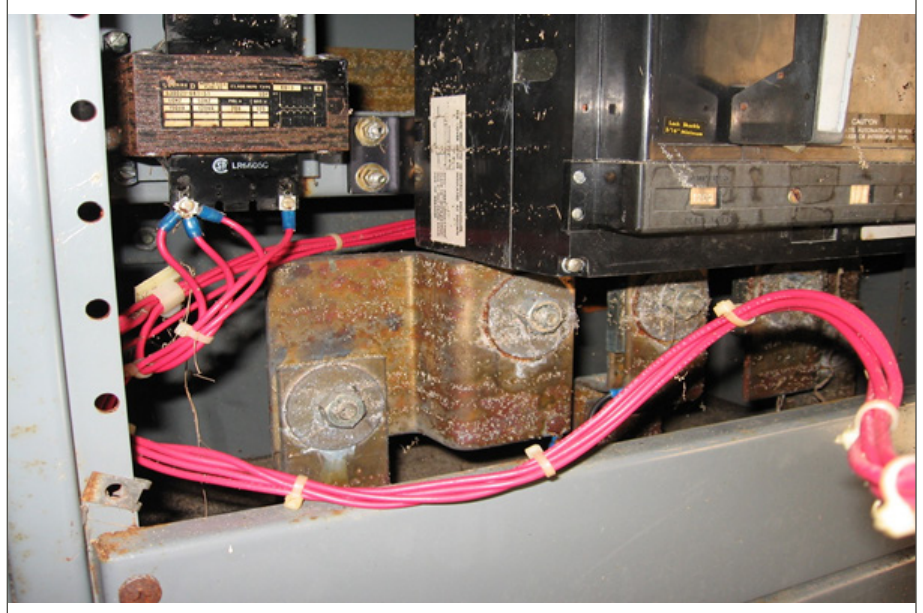
CREATIVE ENGINEERING GROUP, LLC

HURRICANE KATRINA DAMAGE REPAIRS

– MCDERMOTT HANGAR

Creative Engineering Group performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. CEG provided cost estimates to the Architect for repair scope of work.

Once scope and costs were aligned with FEMA, CEG completed electrical construction documents for the repair work. Construction Administration included regular site visits to monitor the electrical installation.



LOCATION
New Orleans, LA

CLIENT
RCL Architecture

SERVICES
Electrical Design
Fire Alarm and Special
Systems Design
Code Review
Cost Estimates
Coordination with FEMA PW
damage assessment
Construction administration

CREATIVE ENGINEERING GROUP, LLC

REPAIRS TO C.F. ROWLEY SCHOOL

ST. BERNARD PARISH SCHOOL BOARD

Creative Engineering Group performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. CEG provided cost estimates to the Architect for repair scope of work. Due to the flood waters all electrical below the ceiling on the first floor was replaced with new. Light fixtures on the first floor were also replaced. First floor circuitry at the ceiling and second floor electrical remained for re-use. FEMA allowed second floor light fixtures to be re-lamped. Life safety systems (ie fire alarm) were replaced and re-located to the second floor. Construction Administration included regular site visits to monitor the electrical installation.



LOCATION
New Orleans, LA

CLIENT
Lachin Architects

SERVICES
Electrical Design
Fire Alarm and Special
Systems Design
Code Review
Cost Estimates
Coordination with FEMA PW
damage assessment
Construction Administration

CREATIVE ENGINEERING GROUP, LLC

REPAIRS TO C.F. ROWLEY SCHOOL

ST. BERNARD PARISH SCHOOL BOARD

Creative Engineering Group performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. Initially, FEMA had allowed a complete replacement of the electrical and special systems due to the heavy damage. At the Design Development stage of the project a new FEMA team came in and provided a revised Project Worksheet which only allowed for repairs to flood damaged items. This did not include all electrical equipment and feeders which had exposure to flood waters. CEG researched and presented NEMA documentation for evaluating water damaged electrical equipment, and was successful in getting additional items covered.

Once scope and costs were aligned with FEMA, CEG completed electrical construction documents for the repair work. Construction Administration included regular site visits to monitor the electrical installation.



LOCATION
Chalmette, LA

CLIENT
Lachin Architects

SERVICES
Electrical Design
Fire Alarm and Special
Systems Design
Code Review
Cost Estimates
Coordination with FEMA PW
damage assessment
Construction Administration

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Barry Scairono	Project Manager	38	25

15. FIRM NAME AND LOCATION *(City and State)*

Scairono Martinez Architects New Orleans, Louisiana

16. EDUCATION *(Degree and Specialization)*

Bachelor of Architecture, Tulane University, 1981

Master of Architecture, Tulane University, 2004

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

Registered Architect, State of Louisiana #3206

NCARB Certificate #47946

Qualifying Party for State of LA Gen Contractor's License

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*


American Institute of Architects

Certified Document Technologist, Construction Specifications Institute

Certified Construction Contract Administrator, Construction, Specifications Institute

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Nucor Administration Building Convent, Louisiana	2012	2013
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SMA designed a new Administration Building serving Nucor employees and visitors to the steel plant. the lobby of the building showcases Nucor products and all steel used in the building process is Nucor Steel. (13,682 sf). Barry's Role was Principal-in-Charge. Construction Cost = \$4,236,499.00		
Nucor Training and Locker Room Building	2013	2014
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SMA designed a new pre-engineered one-story building that includes locker rooms, training, and dining space for Nucor Steel. (11,000 sf). Barry's Role was Principal-in-Charge. Construction Cost = \$2,130,982.00		
Flagship Fitness Center Reserve, Louisiana	2017	2017
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SMA designed a renovation of an existing warehouse for a fitness center including a gym, locker rooms, and a cafe for Marathon Petroleum Company (12,602 sf). Barry's Role was Principal-in-Charge. Construction Cost = \$1,135,552.00		
Marathon Zone 2/3 Shop Garyville, Louisiana	2014	2015
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SMA designed a new blast resistant two-story metal shop building for Marathon Petroleum Company, including offices, locker rooms, and shop space (25,102 sf). Barry's Role was Principal-in-Charge. Construction Cost = \$6,100,000.00		
Austin & Associates Office Building Harvey, Louisiana	2018	2018
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SMA designed a new two-story office building that houses a law office and leasable space (15,380 sf). Barry's Role was Principal-in-Charge. Construction Cost = \$3,328,696.00		

F. Example Project which Best Illustrate Proposed Team's Qualifications for this Contract (Present as many projects requested by the agency, or ten projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER <div>7</div>	
21. TITLE & LOCATION <i>(City & State):</i> New Training and Conference Center Robert, LA		22. YEAR COMPLETED PROFESSIONAL SERVICES 2014	
		CONSTRUCTION (IF APPLICABLE) 2015	
23. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER Shell Oil Company	B. POINT OF CONTACT NAME Adam Gorman	C. POINT OF CONTACT TELEPHONE NUMBER 504-439-2516	
24. BRIEF DESCRIPTION OF PROJECT & RELEVANCE TO THIS CONTRACT <i>(Include Scope, Size, & Cost):</i> This two story 31,000 sf training facility features an Instructional Lab for process equipment for deep water wells. The lab includes four training lines and a Control Room Simulator. The training facility also includes classrooms, office space, a pump/tank room, and support spaces for deep water production crews. The Instructional Lab and Control Room simulator were required to have strictly controlled lighting and temperature while the public areas of the building are filled with natural daylight. The construction cost was \$5,991,000.00. The project was completed as a Design-Build project with Landis Construction Co. LLC - Contact is Christian Generes, President, LEED AP. Contact telephone for Mr. Landis is 504-833-6070.			
			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	1. FIRM NAME Scairono Martinez Architects	2. FIRM LOCATION <i>(City & State)</i> New Orleans, LA	3. ROLE Prime - Architect
b.	1. FIRM NAME Duplantis Design Group, PC	2. FIRM LOCATION <i>(City & State)</i> Covington, LA	3. ROLE Civil/Sitework Engineer
c.	1. FIRM NAME Coast Concrete Services, Inc. / Coast Engineering Services	2. FIRM LOCATION <i>(City & State)</i> Lacombe, LA	3. ROLE Fountain Engineer
d.	1. FIRM NAME Crumb Engineering, LLC	2. FIRM LOCATION <i>(City & State)</i> Metairie, LA	3. ROLE Mechanical, Plumbing, and Fire Protection Engineer
e.	1. FIRM NAME Drake Engineering	2. FIRM LOCATION <i>(City & State)</i> Harvey, LA	3. ROLE Electrical, Lighting, and Fire Alarm Engineer
f.	1. FIRM NAME Guy Grissom Design, LLC	2. FIRM LOCATION <i>(City & State)</i> New Orleans, LA	3. ROLE Landscape Architect

STANDARD FORM: SJB-1000

Professional Engineering and Related Services

1. Project title Public Works and Utilities Hurricane Ida Disaster Recovery Program Management and Damage Assessment.	2. Project number RFP 2021.20																		
3a. Firm (as registered with the Louisiana Secretary of State) and mailing address of the office to perform work Riverlands Surveying Company, LLC P.O. Box 1254 LaPlace, LA 70069-1254	3b. Name, title, telephone number, and e-mail address of the official with signing authority for this contract Travis P. Trosclair Operations 985-652-6356 email: ttrosclair@riverlandssurveying.com 3c. Name, Title, telephone number, e-mail address and registration number of full-time LA licensed engineer in responsible charge of the project (not required for non-engineering projects) N/A																		
3d. I certify that the following information is accurate and complete to the best of my knowledge (must be same person as 3b): Signature: <u>Travis P Trosclair</u> Date: <u>09/10/2021</u>																			
4. Full-time personnel on firm's payroll who are located at the primary work location identified in 3a above: <table><tr><td>a. Civil Engineers, with current Louisiana P.E. registration</td><td><u>0</u></td></tr><tr><td>b. Environmental Engineers, with current Louisiana P.E. registration (not included in 4a)</td><td><u>0</u></td></tr><tr><td>c. Land Surveyors, with current Louisiana P.L.S. registration</td><td><u>1</u></td></tr><tr><td>d. Engineers In Training, with current Louisiana E.I. registration</td><td><u>0</u></td></tr><tr><td>e. Designers/Draftsmen</td><td><u>2</u></td></tr><tr><td>f. Survey Party Chiefs</td><td><u>2</u></td></tr><tr><td>g. Real Estate Professionals (Agents and Certified Appraisers)</td><td><u>0</u></td></tr><tr><td>h. Other personnel not included in above categories</td><td><u>5</u></td></tr><tr><td>Total personnel at primary work location (sum of a – h)</td><td><u>10</u></td></tr></table>		a. Civil Engineers, with current Louisiana P.E. registration	<u>0</u>	b. Environmental Engineers, with current Louisiana P.E. registration (not included in 4a)	<u>0</u>	c. Land Surveyors, with current Louisiana P.L.S. registration	<u>1</u>	d. Engineers In Training, with current Louisiana E.I. registration	<u>0</u>	e. Designers/Draftsmen	<u>2</u>	f. Survey Party Chiefs	<u>2</u>	g. Real Estate Professionals (Agents and Certified Appraisers)	<u>0</u>	h. Other personnel not included in above categories	<u>5</u>	Total personnel at primary work location (sum of a – h)	<u>10</u>
a. Civil Engineers, with current Louisiana P.E. registration	<u>0</u>																		
b. Environmental Engineers, with current Louisiana P.E. registration (not included in 4a)	<u>0</u>																		
c. Land Surveyors, with current Louisiana P.L.S. registration	<u>1</u>																		
d. Engineers In Training, with current Louisiana E.I. registration	<u>0</u>																		
e. Designers/Draftsmen	<u>2</u>																		
f. Survey Party Chiefs	<u>2</u>																		
g. Real Estate Professionals (Agents and Certified Appraisers)	<u>0</u>																		
h. Other personnel not included in above categories	<u>5</u>																		
Total personnel at primary work location (sum of a – h)	<u>10</u>																		

5. Full-time personnel on firm's payroll, not located at the primary work locations, to be used on this project:

a. Civil Engineers	<u>0</u>
b. Environmental Engineers (not included in 5a)	<u>0</u>
c. Land Surveyors, with current Louisiana P.L.S. registration	<u>0</u>
d. Engineers In Training, with current Louisiana E.I. registration	<u>0</u>
e. Designers/Draftsmen	<u>0</u>
f. Survey Party Chiefs	<u>0</u>
g. Real Estate Professionals (Agents and Certified Appraisers)	<u>0</u>
h. Other personnel not included in above categories	<u>0</u>
Total personnel not located at the primary work location (sum of a – h)	<u>0</u>

6. Do you presently have sufficient staff to perform these services in the designated time frame? (Yes/No)

7. Identify the element of work (as defined in the advertisement), and the % of the element to be performed by the firm.

Surveying

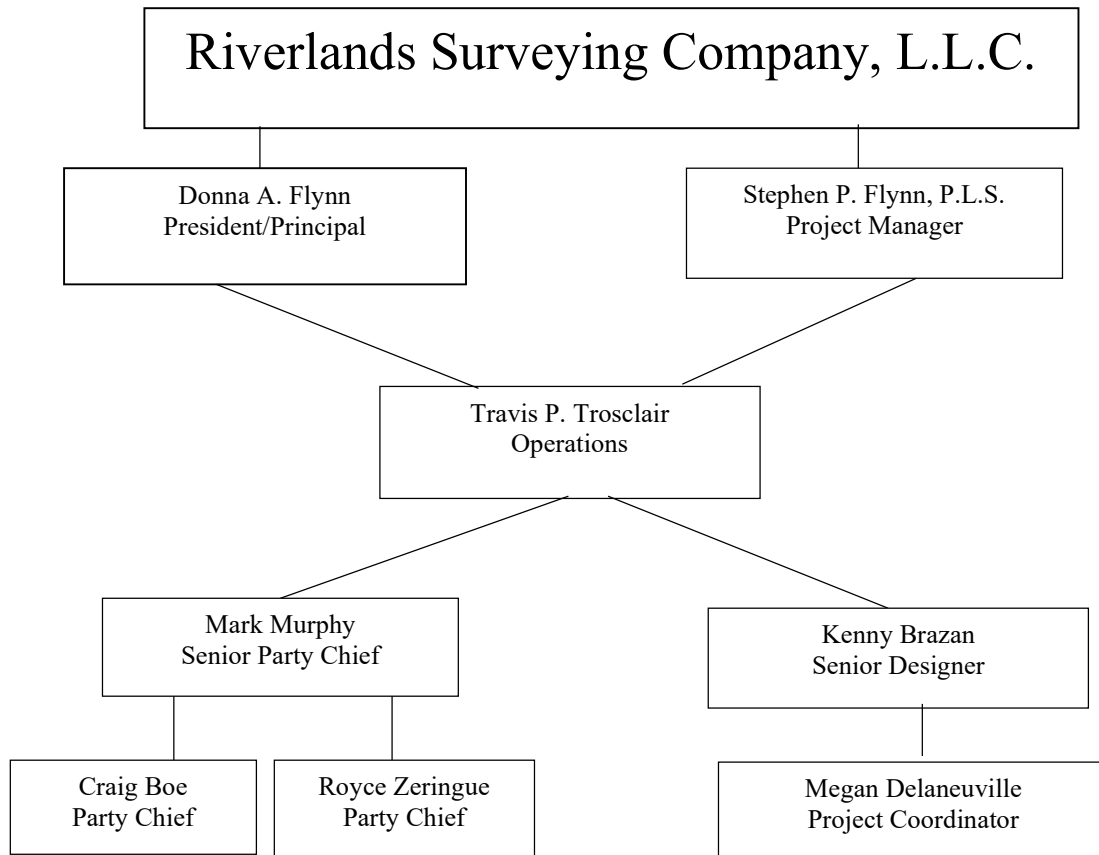
8. Do you intend to use a sub-consultant(s)? ____ yes X no

(For use by the Prime Consultant only)

All sub-consultants/associates listed for this project must attach a signed Form SJB-1000

Name and address	Identify the element of work (as defined in the advertisement), and the % of the element to be performed by the sub-consultant	Worked with prime before? (Yes/No)
1.		
2.		
3.		
4.		
5.		

9. Staffing Plan – A Diagram showing all personnel specifically assigned to each work element of the project, their duties, and immediate supervisors. The Staffing Plan should also include the same information for Sub-consultants (if applicable).



10. Brief résumé of key persons anticipated to work on this project

<p>a. Name, title & domicile</p> <p>Stephen P. Flynn, P.L.S. Project Manager LaPlace, LA 70068</p>	<p>b. Position or Assignment for this project</p> <p>Coordinate field and office work into final project deliverables.</p>
<p>c. Name of firm by which employed full time</p> <p>Riverlands Surveying Company, L.L.C.</p>	<p>d. Years experience:</p> <p>With this firm: <u>25</u> With other firms: <u>15</u></p>
<p>e. Education: Degree(s) / Years / Specialization</p> <p>University of New Orleans, B.S. in Finance Received Degree in December of 1984</p>	<p>f. Active registration: Year registered: <u>1992</u></p> <p>Branch: <u>P.L.S.</u> State: <u>LA</u></p> <p>License No.: <u>4668</u></p>

g. Specific experience and qualifications relevant to the proposed project:

West Bank Hurricane Protection Levee – Phase II – Topographic Survey and Right of Way Maps, St. Charles Parish
 West Bank Hurricane Protection Levee – Phase III – Topographic Survey and Right of Way Maps, St. Charles Parish
 West Bank Hurricane Protection Levee – Sunset Drainage District Levee – Right of Way Maps, St. Charles Parish
 Magnolia Ridge Access Road – Topographic Survey/Survey Services, St. Charles Parish
 Killona Sewer Project – Survey Services, St. Charles Parish
 Reserve Canal Project – provide property survey & topographic information, St. John the Baptist Parish
 U.S. Highway 61 at U.S. Highway 51 – provide property survey & topographic information, St. John the Baptist Parish
 Coronado Drainage – Topographic Survey/Survey Services, St. Charles Parish
 Bosco Pump Station – Topographic Survey, St. Charles Parish
 State Project No. 700-48-0102, Gramercy Bridge Approach (West Bank) Route 3213, LA 3127-LA 18
 State Project No. 450-15-0099, Supplemental Topographic Survey at I-10 & Veterans Memorial Boulevard.
 State Project No. 700-52-0137, Off-System Bridge Rehabilitation and Replacement Program, St. Tammany Parish
 State Project No. 700-53-0118, Off-System Bridge Rehabilitation and Replacement Program, Tangipahoa Parish
 State Project No. 700-59-0009, Off-System Bridge Rehabilitation and Replacement Program, Washington Parish
 State Project No. 700-26-0285, Off-System Bridge Rehabilitation and Replacement Program, Jefferson Parish (1) Metairie Court
 Bridge Over Canal No. 4–Metairie and (2) 26th Street Bridge Over Canal No. 17 (Butler Canal)-Kenner
 State Project No. 737-26-001, New Orleans CBD to New Orleans International Airport, Commuter Rail, Plotted Encumbrances
 for LADOTD Real Estate.
 Project No. 450-15-0100, Interstate 10/Causeway Boulevard Interchange, Phase I Right of Way Maps
 State Project No. 450-15-0103, Interstate 10/Causeway Boulevard Interchange, Phase II Right of Way Maps
 State Project No. 450-15-0116, Interstate 10/Causeway Boulevard Interchange, Phase I Right of Way Maps
 State Project No. 450-15-0120, Interstate 10/Causeway Boulevard Interchange, Phase II Right of Way Maps
 State Project No. 283-08-0143, Crescent City Connection, Intersection Improvement, US 90 (BUS)/LA 428, Orleans Parish
 State Project No. 700-18-0014, Huey P. Long Bridge-Widening (Mississippi River), Route LA US 90, Jefferson Parish
 State Project No. 700-32-0109, Off-System Bridge Rehabilitation and Replacement Program, Livingston Parish (2)
 West Shore Lake Pontchartrain Storm Drainage Risk Reduction System, Right of Way Maps, St. John the Baptist Parish
 Mid-Barataria Sediment Diversion Project – Right of way plats and legal descriptions, Plaquemines Parish

10. Brief résumé of key persons anticipated to work on this project

a. Name, title & domicile

Travis P. Trosclair
Office Operations
LaPlace, LA 70068

b. Position or Assignment for this project
Coordinate field and office work into final project deliverables.

c. Name of firm by which employed full time

Riverlands Surveying Company, L.L.C.

d. Years experience:

With this firm: 19 With other firms: 0

e. Education: Degree(s) / Years / Specialization

Louisiana Technical College
Received Degree in 2002

f. Active registration: Year registered: _____

Branch: _____ State: _____

License No.: _____

g. Specific experience and qualifications relevant to the proposed project:

West Bank Hurricane Protection Levee – Phase II – Topographic Survey and Right of Way Maps, St. Charles Parish
West Bank Hurricane Protection Levee – Phase III – Topographic Survey and Right of Way Maps, St. Charles Parish
West Bank Hurricane Protection Levee – Sunset Drainage District Levee – Right of Way Maps, St. Charles Parish
Magnolia Ridge Access Road – Topographic Survey/Survey Services, St. Charles Parish
Killona Sewer Project – Survey Services, St. Charles Parish
Reserve Canal Project – provide property survey & topographic information, St. John the Baptist Parish
U.S. Highway 61 at U.S. Highway 51 – provide property survey & topographic information, St. John the Baptist Parish
Coronado Drainage – Topographic Survey/Survey Services, St. Charles Parish
Bosco Pump Station – Topographic Survey, St. Charles Parish
State Project No. 700-48-0102, Gramercy Bridge Approach (West Bank) Route 3213, LA 3127-LA 18
State Project No. 700-52-0137, Off-System Bridge Rehabilitation and Replacement Program, St. Tammany Parish
State Project No. 700-53-0118, Off-System Bridge Rehabilitation and Replacement Program, Tangipahoa Parish
State Project No. 700-59-0009, Off-System Bridge Rehabilitation and Replacement Program, Washington Parish
State Project No. 700-26-0285, Off-System Bridge Rehabilitation and Replacement Program, Jefferson Parish (1) Metairie Court
Bridge Over Canal No. 4–Metairie and (2) 26th Street Bridge Over Canal No. 17 (Butler Canal)-Kenner
State Project No. 283-08-0143, Cresent City Connection, Intersection Improvement, US 90 (BUS)/LA 428, Orleans Parish
State Project No. 700-18-0014, Huey P. Long Bridge-Widening (Mississippi River), Route LA US 90, Jefferson Parish
State Project No. 700-32-0109, Off-System Bridge Rehabilitation and Replacement Program, Livingston Parish (2)
West Shore Lake Pontchartrain Storm Drainage Risk Reduction System, Right of Way Maps, St. John the Baptist Parish
Mid-Barataria Sediment Diversion Project – Right of way plats and legal descriptions, Plaquemines Parish

10. Brief résumé of key persons anticipated to work on this project

a. Name, title & domicile

Kenny Brazan
Senior CAD Technician
LaPlace, LA 70068

b. Position or Assignment for this project

Coordinate field and office work into final project deliverables.

c. Name of firm by which employed full time

Riverlands Surveying Company, L.L.C.

d. Years experience:

With this firm: 19 With other firms: 2

e. Education: Degree(s) / Years / Specialization

Louisiana Technical College
Received Degree in 2002

f. Active registration: Year registered: _____

Branch: _____ State: _____

License No.: _____

g. Specific experience and qualifications relevant to the proposed project:

West Bank Hurricane Protection Levee – Phase II – Topographic Survey and Right of Way Maps, St. Charles Parish
West Bank Hurricane Protection Levee – Phase III – Topographic Survey and Right of Way Maps, St. Charles Parish
West Bank Hurricane Protection Levee – Sunset Drainage District Levee – Right of Way Maps, St. Charles Parish
Magnolia Ridge Access Road – Topographic Survey/Survey Services, St. Charles Parish
Killona Sewer Project – Survey Services, St. Charles Parish
Reserve Canal Project – provide property survey & topographic information, St. John the Baptist Parish
U.S. Highway 61 at U.S. Highway 51 – provide property survey & topographic information, St. John the Baptist Parish
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State Project No. 700-26-0285, Off-System Bridge Rehabilitation and Replacement Program, Jefferson Parish (1) Metairie Court
Bridge Over Canal No. 4–Metairie and (2) 26th Street Bridge Over Canal No. 17 (Butler Canal)-Kenner
State Project No. 283-08-0143, Crescent City Connection, Intersection Improvement, US 90 (BUS)/LA 428, Orleans Parish
State Project No. 700-18-0014, Huey P. Long Bridge-Widening (Mississippi River), Route LA US 90, Jefferson Parish
State Project No. 700-32-0109, Off-System Bridge Rehabilitation and Replacement Program, Livingston Parish (2)
West Shore Lake Pontchartrain Storm Drainage Risk Reduction System, Right of Way Maps, St. John the Baptist Parish
Mid-Barataria Sediment Diversion Project – Right of way plats and legal descriptions, Plaquemines Parish

10. Brief résumé of key persons anticipated to work on this project

<p>a. Name, title & domicile</p> <p>Mark Murphy Senior Party Chief LaPlace, LA 70068</p>	<p>b. Position or Assignment for this project</p> <p>Coordinate field and office work into final project deliverables.</p>
<p>c. Name of firm by which employed full time</p> <p>Riverlands Surveying Company, L.L.C.</p>	<p>d. Years experience:</p> <p>With this firm: <u>12</u> With other firms: <u>0</u></p>
<p>e. Education: Degree(s) / Years / Specialization</p> <p>Nicholls State University Received Degree in 2012</p>	<p>f. Active registration: Year registered: _____</p> <p>Branch: <u> </u> State: <u> </u></p> <p>License No.: <u> </u></p>
<p>g. Specific experience and qualifications relevant to the proposed project:</p> <p>West Bank Hurricane Protection Levee – Phase II – Topographic Survey and Right of Way Maps, St. Charles Parish West Bank Hurricane Protection Levee – Phase III – Topographic Survey and Right of Way Maps, St. Charles Parish West Bank Hurricane Protection Levee – Sunset Drainage District Levee – Right of Way Maps, St. Charles Parish Magnolia Ridge Access Road – Topographic Survey/Survey Services, St. Charles Parish Killona Sewer Project – Survey Services, St. Charles Parish Reserve Canal Project – provide property survey & topographic information, St. John the Baptist Parish U.S. Highway 61 at U.S. Highway 51 – provide property survey & topographic information, St. John the Baptist Parish Coronado Drainage – Topographic Survey/Survey Services, St. Charles Parish Bosco Pump Station – Topographic Survey, St. Charles Parish West Shore Lake Pontchartrain Storm Drainage Risk Reduction System, Right of Way Maps, St. John the Baptist Parish Mid-Barataria Sediment Diversion Project – Right of way plats and legal descriptions, Plaquemines Parish</p>	

11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 Projects)

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address, and telephone number	e. Completion date or Percent Complete & cost in thousands
LaPlace / Reserve Water Towers St. John the Baptist Parish 4 Site Location PO#35238859	Provide property survey and topographic information	We performed an initial survey showing the information we found and provided the topographic surveying information.	St. John the Baptist Parish 1801 West Airline Highway LaPlace, LA 70068	February 2013 Cost \$11,000.00
St. John the Baptist Parish Courthouse Edgard, Louisiana	Provide property survey and topographic information	We performed an initial survey showing the information we found and provided the topographic surveying information.	St. John the Baptist Parish 1801 West Airline Highway LaPlace, LA 70068	February 2010 Cost \$3,500.00
Reserve Canal Project St. John the Baptist Parish Reserve, Louisiana	Provide property survey and topographic information	We performed an initial survey showing the information we found and provided the topographic surveying information.	URS Corporation 33500 N. Causeway Boulevard Suite 900 Metairie, LA 70002	March 2011 Cost \$28,000.00
US Highway 61 at US Highway 51 St. John the Baptist Parish LaPlace, Louisiana	Provide property survey and topographic information	We performed an initial survey showing the information we found and provided the topographic surveying information.	Buchart Horn, Inc. 9100 Bluebonnet Centre Blvd Suite 502 Baton Rouge, LA 70809	December 2009 Cost \$16,000.00
US Highway 61 at LA Highway 3188 St. John the Baptist Parish LaPlace, Louisiana	Provide property survey and topographic information	We performed an initial survey showing the information we found and provided the topographic surveying information.	Buchart Horn, Inc. 9100 Bluebonnet Centre Blvd Suite 502 Baton Rouge, LA 70809	December 2009 Cost \$14,250.00

11. Work by firm which best illustrates project experience relevant to this project (List not more than 10 Projects)

a. Project name & location	b. Project description	c. Nature of firm's responsibility & firm members involved	d. Client's name, address, and telephone number	e. Completion date or Percent Complete & cost in thousands
CN Railroad from Garyville Northenr to Little Hope Street St. John the Baptist Parish Garyville, Louisiana	Provide property survey and topographic information	We performed an initial survey showing the information we found and provided the topographic surveying information.	Burk-Klienpeter, Inc. P.O. Box 19087 New Orleans, LA 504-486-5901 ext 258	March 2013 Cost \$22,000.00
SP No. 700-48-0102 Gramercy Bridge Approach (West Bank) Route 3213 LA 3127-LA 18 St. James & St. John the Baptist Parish	Provide property survey and prepare right of way maps. We are a sub-consultant to URS Corporation.	We performed an initial survey showing the information we found and was directed to prepare a R/W map for property acquisition.	Louisiana Department of Transportation and Development Eric Lanier 225-379-1105 P.O. Box 9425 Baton Rouge, LA 70804-9245	December 2003 Cost \$143,946.00
SP No. 845-06-004 LA 631 R/W Acquisition of Ms. Phoebe Sellers Cellos, et al Route LA 631 St. Charles Parish	Determine the width of LA 631 based on documentation and maps provided by LADOTD Real Estate Section and field investigation.	We performed an initial survey showing the information we found and was directed to prepare a R/W map for property acquisition.	Louisiana Department of Transportation and Development Eric Lanier 225-379-1105 P.O. Box 9425 Baton Rouge, LA 70804-9245	Cost \$3,000.00
SP No. 700-18-0014 Huey P. Long Bridge (Widening) Route US 90 Jefferson Parish	Widen the Huey P. Long Bridge	We provided to topographic surveying for the East and West Bank of the Mississippi River for the existing bridge structure and contract administrative services.	Louisiana Department of Transportation and Development Eric Lanier 225-379-1105 P.O. Box 9425 Baton Rouge, LA 70804-9245	April 2004 Cost \$421,500.00
SP No. 283-08-0143 Crescent City Connection Intersection Improvement US 90/LA 428 Orleans Parish	Provide property survey and prepare right of way maps	We obtained and prepared title reports performed a property survey and prepared the R/W mas for this project	Louisiana Department of Transportation and Development Eric Lanier 225-379-1105 P.O. Box 9425 Baton Rouge, LA 70804-9245	February 2003 Cost \$8,817.00

12. All work by firm (all offices) currently being performed for or selected by St. John the Baptist Parish Government (as Prime or Sub-consultant)

a. Project name, and location*	b. Nature of your firm's responsibility (also identify if prime or sub-consultant)	c. Percent complete (by phase/type of work)	d. Contract fees (in thousands)** (by phase/type of work)	
			Total	Remaining
LASAFE Airline and Main Complete Streets	Provide survey services needed to complete the project	100%	<u>\$83,000.00</u>	0
Belle Terre Streetscape and Stormwater Management Enhancements	Provide survey services needed to complete the project	90%	\$100,000.00	\$5,000.00
West Shore Lake Pontchartrain Storm Drainage Risk Reduction System	Right of way maps	95%	\$240,000.00	\$20,000.00
Mid-Barataria Sediment Diversion Project	Right of way maps and legal descriptions	95%	\$215,000.00	\$15,000.00
* For master contracts, list open task orders individually ** Do not include sub-consultant's fees			Total	
			\$638,000.00	\$40,000.00

13. Use this space to provide evidence of an adequate financial statement and any additional information or description of resources supporting your firm's qualifications for the proposed project. This section may also be used to submit proposed prices, hourly rates, specific charges, if required. A maximum of two (2) additional sheets may be utilized to answer this question. All other sheets not specifically requested shall be excluded.

Stephen P. Flynn, P.L.S. – Principal – oversees field operations and title research.

Travis Trosclair – Office Operations – oversees DOTD projects, supervises drafting & field crews, coordinates GPS surveys, processes GPS data, aids in title research, drafting and field work.

Kenny Brazan- Senior CAD designer – responsible for taking field notes and processing them into finished drawings

Mark Murphy – Senior Party Chief – Supervises field crews, coordinates GPS surveys, processes GPS data, aids in title research, drafting and field work.

Megan Delaneuville – Project Coordinator/Office Manager – takes care of invoicing, project records and administrative functions.

Our personnel are cross trained to fulfill the needs of this project. We have the equipment to field numerous survey crews and drafting stations to add additional personnel should the workload require it.

REQUIRED DOCUMENTS

PRIME CONSULTANT

NEW ORLEANS

METAIRIE

MANDEVILLE

SHREVEPORT

TUSCALOOSA



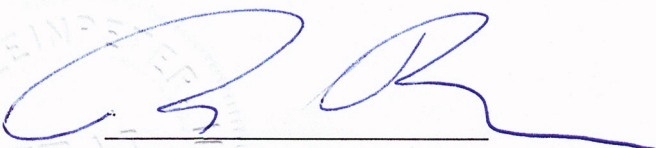
RESOLUTION

BE IT RESOLVED by the Board of Directors of Burk-Kleinpeter, Inc., a corporation organized and existing under the laws of the State of Louisiana and domiciled in the City of New Orleans, Louisiana, that Henry M. Picard, III, Senior Vice-President, be, and he is hereby authorized and empowered to execute any and all contracts, agreements, and/or proposals for Professional Services on behalf of the Corporation with St. John the Baptist Parish Sheriff Office for the "Hurricane Ida Disaster Recovery Damage Assessment and A/E Services" project.

CERTIFICATE

I, Bruce L. Badon, Corporate Secretary of Burk-Kleinpeter, Inc., do hereby certify that the foregoing resolution was unanimously adopted by the Board of Directors of said corporation at a meeting thereof legally held on the 23rd day of September 2021; that said resolution is duly entered into the records of said Corporation; that it has not been rescinded or modified, and that it is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand and the seal of said Corporation this 23rd day of September 2021.



Bruce L. Badon
Corporate Secretary

**QUESTIONS AND COMMENTS MUST BE SUBMITTED NO LATER THAN 11:00 A.M.
(CT) September 24, 2021.**

REQUIRED SIGNATURE PAGE FOR SUBMITTALS

This page, signed by an authorized officer of your Company, must accompany your submittal as the cover page.

I, the undersigned, having carefully examined the Request for Qualifications, propose to furnish services in accordance therewith as set forth in the attached submittal.

I hereby certify that this submittal is genuine and not a sham or collusive submittal, or made in the interests or on behalf of any person not therein named; and I have not directly or indirectly induced or solicited any Submitter or supplier on the above work to put in a sham submittal or any person or corporation to refrain from submitting a submittal; and that I have not in any manner sought by collusion to secure to myself an advantage over any other Submitter(s) or person(s).

In order to induce the Sheriff to consider this submittal, the Submitter irrevocably waives any existing rights which it may have, by contract or otherwise, to require another person or corporation to refrain from submitting a submittal to or performing work or providing supplies to St. John the Baptist Parish Sheriff Office, and Submitter further promises that it will not in the future directly or indirectly induce or solicit any person or corporation to refrain from submitting a bid or submittal to or from performing work or providing supplies to St. John the Baptist Parish Sheriff Office.

Please type or print legibly the information below.

Submitter hereby acknowledges receipt of the RFQ and agrees to Terms and Conditions set forth in this RFQ.

SUBMITTER INFORMATION

Firm Name: Burk-Kleinpeter, Inc.

Address: 4176 Canal St. City/State/Zip: New Orleans, LA 70119

Phone No.: 504-486-5901 Fax No.: 504-483-6298

AUTHORIZATION TO SUBMIT (must be signed):

By:  9/27/2021 Henry M. Picard, III, PE, PLS
Signature Offer Date Printed

Primary Contact Person (If other than above):

Name: _____ Phone No: _____ Fax No: _____

Title: _____ Email Address: _____

If this submittal is being submitted on behalf of an agent/broker, please complete section below:

Submitted on behalf of: _____

Phone No: _____ Fax No: _____

E-mail Address: _____

**PAST CRIMINAL CONVICTIONS OF BIDDERS ATTESTATION (LA. R.S.
38:2227)**

STATE OF LOUISIANA

PARISH OF Orleans

BEFORE ME, the undersigned Notary Public PERSONALLY CAME AND APPEARED,

I, Henry M. Picard, III, PE, PLS, (Appeared) the owner/authorized representative of

Burk-Kleinpeter, Inc.

Submitter/ Individual / Legal Entity Name

Appeared, as a Bidder on the herein named Project, does hereby attest that:

A. No sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named herein, including any silent or dormant owner or manager, has been convicted of, or has entered a plea of guilty or nolo contendere to, any of the following state crimes or equivalent federal crimes:

(a) Public bribery (R.S. 14:118)

(c) Extortion (R.S. 14:66)

(b) Corrupt influencing (R.S. 14:120)

(d) Money laundering (R.S. 14:230)

B. For five years prior to the project bid date, no sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named herein, including any silent or dormant owner or manager, has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes, during the solicitation or execution of a contract or bid awarded pursuant to the provisions of Chapter 10 of Title 38 of the Louisiana Revised Statutes:

(a) Theft (R.S. 14:67)

(f) Bank fraud (R.S. 14:71.1)

(b) Identity Theft (R.S. 14:67.16)

(g) Forgery (R.S. 14:72)

(c) Theft of business record (R.S. 14:67.20)

(h) Issuing worthless checks (R.S. 14:71)

(d) False accounting (R.S. 14:70)

(i) Malfeasance in office (R.S. 14:134)

(e) Submitter's misapplication of payments (R.S. 14:202)

Burk-Kleinpeter, Inc.

Name of Bidder

RFQ 2021.1 Hurricane Ida Disaster Recovery Damage
Assessment and A/E Services

Project Name/Number

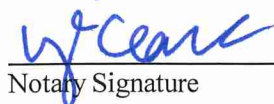

Signature of Authorized Signatory of Bidder

Senior Vice President

Title of Authorized Signatory

SUBSCRIBED AND SWORN BEFORE ME ON THIS 24th DAY

OF September, 2021.

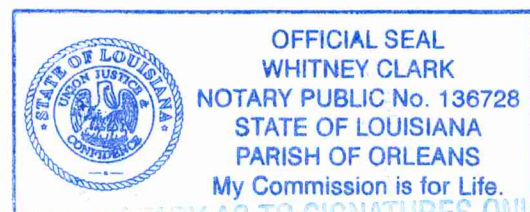

Notary Signature

Printed Notary

Name: Whitney Clark

Notary/Bar Roll Number: 136728

My Commission is For/Expires: For Life



NOTARY AS TO SIGNATURES ONLY
NOTARY DID NOT PREPARE
THIS DOCUMENT.

**ST. JOHN THE BAPTIST PARISH
NON-SOLICITATION AND UNEMPLOYMENT
AFFIDAVIT**

(Pursuant to La. R.S. 38:2224 and La. R.S. 23:1726(B))

STATE OF Louisiana

PARISH/COUNTY OF Orleans

Before me, the undersigned authority, came and appeared,



I, Henry M. Picard, III, PE, PLS, the owner/authorized representative of

Burk-Kleinpeter, Inc.
Company/Individual/Legal Entity Name

who, being first duly sworn, deposed and state that I personally and as an authorized representative of the above identified legal person executes this continuing affidavit stating that neither the above named Submitter nor a person acting on its behalf, either directly or indirectly, employed, paid, nor promised any gift, consideration or commission to any person or legal entity to procure or assist in procuring this public contract, other than persons regularly employed by Submitter whose services were in the regular course of their duties for Submitter in connection with the construction, alteration or demolition of a public building or project.

The above-named Submitter, if awarded, continually affirms that no part of the contract price received by Submitter was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the affiant whose services were in the regular course of their duties for Submitter.

The above-named Submitter hereby attests and certifies that it does not have any unpaid assessment or penalty levied against it regarding unemployment compensation and currently does and will continue to properly classify each employee.

<div style="text-align: center;"> _____ Signature of Authorized Signatory</div> <div><u>Henry M. Picard, III, PE, PLS</u> _____ Printed Name of Signatory</div> <div><u>Senior Vice President</u> _____ Title of Authorized Signatory</div> <div>RFQ 2021.1 Hurricane Ida Disaster Recovery Damage Assessment and A/E Services _____ Project Name/Number</div>	<div>SUBSCRIBED AND SWORN BEFORE ME ON THIS <u>24th</u> DAY OF <u>September</u>, 2021.</div> <div style="text-align: center;"> _____ Notary Signature</div> <div><u>Whitney Clark</u> _____ Printed Notary Name:</div> <div><u>136728</u> _____ Notary Bar Roll Number</div> <div>My Commission is for/expires on: <u>For Life</u></div>
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OFFICIAL SEAL
WHITNEY CLARK
NOTARY PUBLIC No. 13672
STATE OF LOUISIANA
PARISH OF ORLEANS
My Commission is for Life.

Submitter verifies that Submitter will collect an affidavit in this form from any approved sub-contractor and forward a copy to: Saint John the Baptist Parish, 1811 West Airline Hwy, LaPlace, Louisiana 70068, no later than five business days after contracting with its sub-contractor; however, in no instance shall the affidavit be received after commencement of work by the sub-contractor.



**Certification Regarding
Debarment, Suspension, and Other Responsibility Matters
Primary Covered Transactions**

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 13 CFR Part 145. The regulations were published as Part VII of the May 26, 1988 *Federal Register* (pages 19160-19211). Copies of the regulations are available from local offices of the U. S. Small Business Administration.

- (1) The prospective primary participant certifies to the best of its knowledge and belief that it and its principals:
- (a) Are not presently debarred, suspended, proposed for disbarment, declared ineligible, or Voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) Terminated for cause of default.
- (2) Where the Prospective primary participant is unable to certify to any of the statements in this Certification, such prospective primary participant shall attach an explanation to this submittal

Business Name: - Burk-Kleinpeter, Inc.

Date 9/27/2021 By Henry M. Picard, III, PE, PLS; Senior Vice President
Name and Title of Authorized Representative


Signature of Authorized Representative

E-VERIFY AFFIDAVIT

STATE OF LOUISIANA

PARISH OF Orleans

BEFORE ME, the undersigned Notary Public PERSONALLY CAME AND APPEARED,

Henry M. Picard, III,
I, PE, PLS, the owner/authorized representative of

Burk-Kleinpeter, Inc.

Company/Individual/Legal
Entity Name

who hereby personally and as the authorized representative of the above identified legal person executes this affidavit, as the undersigned Company verification of its current and future compliance with L.S.A. R.S. 38:2212.10, stating affirmatively that it and each individual, firm or corporation associated with it and engaged in the physical performance of services in the State of Louisiana, under a contract with St. John the Baptist Parish Sheriff Office has registered with, is participating in, and shall continue to participate in a federal work authorization program designated as such under the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, as amended, which is operated by the United States Department of Homeland Security, known as the "E-Verify" program. The Company hereby verifies the legal status of all existing and new employees in the State of Louisiana by attesting herein that each is a citizen of the United States or legal aliens as defined by now effective immigration laws of the United States of America.

Company shall not assign this Contract or any monies due or to become due here under, or subcontract any part of the Work without the prior written consent of St. John the Baptist Parish Sheriff's Office.

Company verifies that the Company will collect an affidavit in this form from any approved subcontractor and forward a copy to: St. John the Baptist Parish Sheriff Office, 1801 West Airline Hwy, LaPlace, Louisiana 70068, no later than five business days of contracting with its subcontractor; however, in no instance shall the affidavit be received after commencement of work by the subcontractor.

[Signature]
Signature of Authorized Signatory

06/26/2008
Date E-Verify ID Assigned

Henry M. Picard, III, PE, PLS
Printed Name of Signatory

131901
E-Verify ID

Senior Vice President
Title of Authorized Signatory

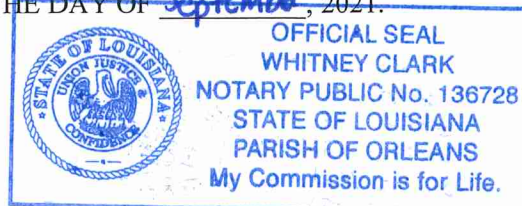
SUBSCRIBED AND SWORN BEFORE ME ON THIS THE DAY OF September²⁴, 2021.

[Signature]
Notary Signature

Printed Notary Name: Whitney Clark

Notary/Bar Roll Number: 136728

My Commission is For/Expires: For Life



NOTARY AS TO SIGNATURES ONLY
NOTARY DID NOT PREPARE
THIS DOCUMENT.