



Routine Engineering Services for Drainage Projects

SOQ No. 22-011

Jefferson Parish
Purchasing Department
200 Derbigny Street, Suite 6700
Gretna, LA 70053

Statement of Qualifications (TEC Questionnaire)



H. Davis Cole &
Associates, LLC
Consulting Engineers

Baton Rouge • New Orleans • Chalmette

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Routine Engineering Services for Drainage Projects

SOQ No. 22-011

Resolution No. 138811

B. Firm Name & Address:



H. Davis Cole & Associates, LLC

1340 Poydras Street, Suite 1850

New Orleans, LA 70112

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

H. Davis Cole, P.E.

Managing Member/ Principal Engineer

Phone: (504) 836-2020

Fax: (504) 836-2010

Email: hdcole@hdaviscole.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

H. Davis Cole, P.E.

Managing Member/ Principal Engineer

Phone: (504) 836-2020

Fax: (504) 836-2010

Email: hdcole@hdaviscole.com

E. Please provide the number of employees whose primary function corresponds with each category:

<u>2</u> Administrative	-- Estimators	-- Specification Writers
-- Architects (Licensed)	-- Geologists	-- Structural Engineers
-- Chemical Engineers	-- Geotechnical Engineers	<u>1</u> Graduate Engineers
<u>2</u> Civil Engineers	-- Interior Designers	<u>1</u> Project Managers
<u>1</u> Construction Inspectors	-- Landscape Architects	-- Clerical
-- Ecologists	-- Land Surveyor	-- Grant/Funding Specialist
-- Electrical Engineers	-- Mechanical Engineers	-- Sanitary Engineers
-- Engineer Intern	-- Environmental Engineers	
-- Professional Land Surveyors		<u>7</u> TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES _____ NO ✓

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

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

1. Not Applicable

2.

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

YES

☐

NO

☒

Not Applicable

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

Name & Address	Specialty:	Worked with Firm Before (Yes or No):
1. Not Applicable		
2.		
3.		
4.		
5.		

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

7

(The total number of employees available to contribute to the project from the Prime and Subconsultant Firms)

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OR PROJECT:

Name & Title:

H. Davis Cole, P.E.

Managing Member/ Principal Engineer

Project Assignment:

Client Manager; Principal -in-Charge

Name of Firm with which associated:



Years' experience with this Firm:

15 Years (2006)

Education: Degree(s)/Year/Specialization:

BSCE, 1998, Civil & Environmental Engineering, Louisiana State University

Active Registration: Year first registered/discipline:

2002, Civil Engineer, Louisiana, No. 30219

Other experience and qualifications relevant to the proposed Project:

Mr. Cole founded H. Davis Cole & Associates, LLC in 2006 after serving several years with international, national, and local engineering firms. Mr. Cole has nearly two decades of experience working with various types of program management and civil engineering projects including wastewater, drainage, potable water, structural, and transportation improvement projects. Mr. Cole has served the Southeast Louisiana community for the past decade through his role as a Technical Advisor on many infrastructure improvement projects as well as the grant and program management of recovery programs following disasters. Mr. Cole's career has focused on providing civil and environmental engineering design solutions to municipal clients across the Gulf Coast.

EXPERIENCE WITH JEFFERSON PARISH

N. Hullen Drainage Improvements, Jefferson Parish, LA. HDCA is providing professional design services to Jefferson Parish for the preparation of construction documents for drainage and roadway improvements on North Hullen Street. The planned improvements to the street include subsurface drainage capacity improvements between 7th Street and the West Esplanade Canal and a complete reconstruction of the existing roadway. Mr. Cole is serving as the project manager and overseeing the overall design of the project. (ongoing)

Brown Avenue Canal Improvements, Jefferson Parish, LA. HDCA designed improvements to the area surrounding Brown Avenue on the West Bank of Jefferson Parish. Improvements to the area included the enclosure of the Brown Avenue Canal utilizing approximately 1,125 linear feet of 96" reinforced concrete pipe arch as well as cold-planing segments of the existing Brown Avenue and overlaying with new asphalt. Upon completion of the construction of the first phase of the project, Jefferson parish increased the scope of the project to include the remaining section of Brown Avenue for improvements. Phase II of the project was successfully bid and construction began in early 2021. Mr. Cole is currently providing construction administration services for Phase II's construction. (ongoing)

Improvements to the Ehret & Broas Lift Station (L-13-6), Jefferson Parish, LA. HDCA is providing design, permitting, bid phase, and construction phase services related to the restoration of functionality at the existing lift station on the west bank of Jefferson Parish. The existing station is to be demolished and replaced with a new, relocated station. The new station includes a wet well, valve pit, control panel, and emergency pump out, along with submersible pumps and Variable Frequency Drives (VFDs). Mr. Cole is serving as Project Manager for the design of the project. (ongoing)

New Avondale Library, Jefferson Parish, Louisiana. HDCA is serving as a subconsultant to N-Y Associates for the design of a new library branch for Jefferson Parish. The new library will be located in the Avondale area of Jefferson Parish's west bank. HDCA's role in

TEC Professional Services Questionnaire

H. Davis Cole, P.E.

continued

the project included the structural engineering and foundation design. The project is currently in the final stage of design with bidding anticipated in late 2021. (ongoing)

Bayou Segnette Drainage Pump Station Improvements, Jefferson Parish, LA. HDCA is providing engineering services for proposed improvements to the Bayou Segnette Drainage Pump Station No. 1. Improvements to the existing pump station will include the construction of a catwalk system to connect the pump station building to the proposed new access bridge; demolition of the existing stationary bar racks upstream; construction of a new "Waskey" type bridge; installation of catenary type mechanical trash rack system; and required electrical and control facilities to support proposed improvements. HDCA is responsible for overall project management and design of all elements related to the mechanical trash rack system. The project is currently under construction and Mr. Cole is serving as the project manager. (ongoing)

Old Harvey Neighborhood Revitalization Study, Jefferson Parish, LA. HDCA, as a part of a Joint Venture - Villavaso-HDCA, LLC, is currently providing Jefferson Parish with a comprehensive revitalization assessment and conceptual plan for improvements to the Old Harvey neighborhood on the Westbank. The intent of the study is to identify the drivers of the area's blighted condition and develop a plan for revitalizing the area to better serve the vibrant, diverse community and spearhead economic growth. HDCA's role focuses on community engagement and addressing existing infrastructure deficiencies to accommodate future growth. Public infrastructure improvement recommendations may include drainage projects (capacity and canal safety/aesthetics), sewer improvements projects (capacity, elimination of overflow and backups), water improvement projects (capacity, larger water mains to encourage industrial/business development); and roadway improvement projects (traffic flow and access to areas of the community). Additional elements HDCA will be studying include improving environmental quality concerns, community facilities, recreational facilities, community safety, as well as potential funding sources and programs for the implementation of the recommendations. Mr. Cole is serving as the Principal Engineer on the study. (ongoing)

Ames Boulevard Resurfacing (4th Street to West Bank Expressway), Jefferson Parish, LA. HDCA provided construction administration and resident inspection services for the milling and overlaying of the existing 4-lane asphalt roadway in Jefferson Parish. The project also included asphalt patching, curb and gutter replacements, and the replacement of existing handicap ramps with ADA-compliant ramps. Mr. Cole served as technical advisor over the course of construction. (2021)

Improvements to "Rheem" Building, Department of Drainage, Jefferson Parish, LA. HDCA prepared plans and specifications for modifications to the Drainage Department's Yard Facility on the East Bank. Improvements included the addition of a dormitory and staging area for staff during emergency operations. Mr. Cole served as a Technical Advisor for the project, overseeing overall design of the improvements, as well as construction. The build-out was successfully constructed and is currently in-use. (2020)

Evaluation and Repair of "Price Brothers" Force Mains, Jefferson Parish, LA. HDCA provided engineering design and construction phase services for detailed evaluations of pre-stressed concrete cylinder pipe (PCCP) pipelines throughout Council Districts 1, 2, 3, and 4 in Jefferson Parish. These pipelines, alternatively referred to as "Price Brothers" pipe, are prone to rupture and present a potentially serious maintenance liability. HDCA evaluated various technologies and developed contract documents for an "as-needed", work-order basis evaluation program utilizing CCTV, electromagnetic, acoustic, and other evaluation techniques. Mr. Cole served as Technical Advisor. (2020)

Rehabilitation of the Jonathan Davis Wastewater Treatment Plant, Department of Sewerage, Jefferson Parish, LA. HDCA provided technical services for the complete structural, mechanical, and electrical rehabilitation of the Jonathan Davis Wastewater Treatment Plant in Lafitte, LA. The existing plant, a 1980s-vintage "Omega Type" Package Plant was to be replaced with a new state-of-the-art sequencing batch reactor plant and the existing effluent discharge into Bayou Barataria to be abandoned in favor of a new wetlands assimilation effluent discharge. Design of the new plant and effluent pump station has been completed however has not been slated for construction. Mr. Cole served as Technical Advisor. (2019)

Rehabilitation of the Harvey Wastewater Treatment Plant, Department of Sewerage, Jefferson Parish, LA. HDCA provided design, bidding, and construction administration services for the construction of improvements at the existing Harvey Wastewater Treatment Plant including construction of a new 107-foot diameter elevated trickling filter and rehabilitation of the existing trickling filter pump station. HDCA provided mechanical design of the new filter, yard piping modifications, site work, and overall project management. The new trickling filter was designed to treat up to 28 million gallons per day of sewage and contains over 108,000 cubic feet of polypropylene "random dump" type media and includes a 107" diameter hydraulically driven or "reaction-type" rotary distributor. Mr. Cole served as a technical advisor during the design phase and led construction administration efforts. (2016)

Clearview Parkway / Earhart Expressway Interchange and Surrounding Areas Drainage Study, Jefferson Parish Department of Drainage, Jefferson, LA. Mr. Cole, as Principal Engineer, oversaw the hydraulic modeling and engineering activities associated with this significant hydraulic evaluation effort aimed at solving recurring flooding issues associated with the Clearview Parkway/Earhart Expressway Interchange and the surrounding Elmwood area. For this, a hydraulic model was developed using PCSWMM modeling software for the approximate 70 acre drainage basin. Using the hydraulic model, many alternatives aimed at relieving the recurring flooding problems were evaluated. Recommendations included a series of storm water detention ponds within the interchange, a new 300 cubic foot per second drainage pumping station, and major improvements to St. Peters Ditch all totaling approximately \$30 M. (2006)

TEC Professional Services Questionnaire

H. Davis Cole, P.E.

continued

Evaluation of Canal No. 10, Jefferson Parish Department of Drainage, Jefferson, LA. For this effort, a hydraulic and physical evaluation of Canal No. 10 located in the northern portion of Kenner, Louisiana was conducted. Specifically, slope stability of the existing canal banks and hydraulic capacity of the existing canal were assessed. Given these parameters, recommendations were made to restore the canal to its required hydraulic capacity while stabilizing areas where slope stability was an issue. (2006)

Willswood Lane Roadway Improvements, Jefferson Parish Department of Streets, Jefferson, LA. This project involved the design of an addition of a third turning lane to this roadway. Also included were redesign of the roadway drainage systems, redesign of a railroad crossing, and permitting and coordinating with the railroad and various utilities. The construction cost opinion for the project was \$1.9 M. Mr. Cole served as the Principal Engineer. (2006)

Lapalco Boulevard Overlay – Belle Chasse Highway to Wall Boulevard, Jefferson Parish Department of Streets, Jefferson, LA. Mr. Cole served as the Principal Engineer for the construction phase of this project which involved roadway improvements, in accordance with DOTD standards, for a 0.6 mile 4-lane segment of Lapalco Boulevard. Included were pavement repairs, addition and adjustment of drainage structures, curb and gutter replacements, and approach slab replacements. Provision and oversight of DOTD Certified Inspectors was also within the scope of the project. The project construction cost was \$1.1 M. (2004)

Lapalco Boulevard Overlay – Wall Boulevard to Timberlane Drive – Jefferson Parish Department of Streets, Jefferson, LA. Mr. Cole served as the Principal Engineer for the design phase of this project. This project involves the design of roadway improvements, in accordance with LADOTD standards, for a 0.5 mile long, 4-lane segment of Lapalco Boulevard including pavement repairs, addition and adjustment of drainage structures, curb and gutter replacements, and approach slab replacements. The construction cost opinion was \$1.8 M. (2004)

Lapalco Boulevard Overlay – Bayou Fatma to Brooklyn Avenue, Jefferson Parish Department of Streets, Jefferson, LA. Mr. Cole served as the Principal Engineer for the design phase of this project which involves the design of roadway improvements, in accordance with LADOTD standards, for a 0.3 mile long, 4-lane segment of Lapalco Boulevard including: pavement repairs, addition and adjustment of drainage structures, and curb and gutter replacements. The construction cost opinion was \$1.7 M. (2004)

West Bank Water Treatment Plant Filter Upgrade, Jefferson Parish Department of Water, Marrero, LA. This project involved the replacement of existing sand media with a dual media (sand and anthracite), replacement of existing ceramic underdrains with plastic underdrains, replacement of filter-wash troughs, extension of filter gullet walls, and removal and replacement of the existing surface backwash system with a new air-scour backwash system at a 30 MGD surface water treatment plant. Also included was integration of the new filter backwash control system into the existing plant SCADA system. Mr. Cole served as the Project Engineer during the construction phase of the project. (2003)

Marrero Wastewater Treatment Plant Consolidated Expansion, Jefferson Parish Department of Sewerage, Jefferson, LA. Mr. Cole served as the Project Engineer on this project that involved designing a \$17 M, 4.85 million gallon per day expansion to a wastewater treatment plant located on the West Bank of Jefferson Parish in the community of Marrero, LA. Additional process units were designed including a trickling filter, solids contact basin, and primary and secondary clarifiers. Extensive modifications to the existing headworks, including new mechanical barscreens and a vortex grit removal system as well as a headworks bypass line, were designed as part of the proposed expansion. Also included in the design was expansion of odor control facilities to accommodate the additional unit processes. (2003)

DRAINAGE IMPROVEMENT PROJECTS

New River Channel Improvements, Ascension Parish, LA. HDCA is providing design services in support of major maintenance activities on a 2.7 mile stretch of the New River Canal. The scope of the work includes grading the channel to a uniform bottom elevation, debris removal, grading the side slopes for uniformity within the existing top of the bank, implementing erosion control measures in selected locations, as well as removal of the existing weir. Design of the project has been completed and was successfully bid. HDCA will also provide construction phase services over the course of construction. Mr. Cole is serving as Technical Advisor for the project. (ongoing)

Murray Hill Dr. and Destrehan Drive Drainage Improvements, St. Charles Parish, LA. HDCA was recently selected to provide drainage and paving improvements along Destrehan Drive and Murray Hill Drive in Destrehan, LA. The area is prone to impassable roadway conditions during storm events and as such, HDCA was retained to design a new subsurface drainage system including the addition of catch basins at gutter bottoms to convey the stormwater out of the area. The project also includes the accompanying roadway and driveway repairs. Mr. Cole is serving as Technical Advisor for the project. (Ongoing)

W. Madisonville Drainage Improvements, St. Tammany Parish, LA. HDCA was recently selected to provide engineering services related to proposed improvements to the roadside drainage system along Brewster Road in Madisonville. The stretch of the road which will undergo improvements extends from LA Highway 1085 to Raiford Oaks Subdivision. Mr. Cole will serve as Technical Advisor overseeing design services for the project. (Ongoing)

TEC Professional Services Questionnaire

H. Davis Cole, P.E.

continued

Lurline Dr. Drainage Improvements, City of Covington, LA. HDCA is providing design services for the proposed roadway and drainage improvements along Lurline Drive in the River Forest Subdivision of Covington. The project, which will be divided into two sections, includes the total reconstruction of the storm drain system, as well as the reconstruction of the roadway utilizing 6" thick portland cement concrete and a 8" thick soil cement base course. Scope of the project also includes curb, gutter and driveway improvements. Mr. Cole is serving as the project manager overseeing design services. (Ongoing)

Raiford Oaks Drainage Improvements, St. Tammany Parish, LA. HDCA is providing professional engineering services for the proposed improvements to the "Unnamed Stream" which flows through the Raiford Oaks Subdivision in Madisonville. The purpose of the project is to improve the stormwater conveyance and increase retention in the area. The "Unnamed Stream" suffers from inconsistent profile and varying side slopes which will be improved as part of this project. HDCA will provide engineering design, bid phase, and construction services for the project, as well as environmental and permitting services. Project is in the final phase of design. Mr. Cole is serving as Technical Advisor for the project. (ongoing)

St. Helena Parish HMGP Drainage Improvements, St. Helena Parish, LA. HDCA is currently developing hazard mitigation project alternatives to address the repetitive flooding occurring across St. Helena Parish during storm events. Phase I of the project includes the development of a detailed hydrologic and hydraulic (H&H) model to assess potential projects. HDCA will also support St. Helena Parish's development of Benefit Cost Analyses (BCA) of potential projects utilizing FEMA's BCA Toolkit. HDCA will also provide design, permitting, bid phase services, and construction administration of the funded projects (Phase II). Mr. Cole is serving as Technical Advisor of this FEMA HMGP-funded project. (ongoing)

Drainage Redirection Project (Harlem Street Area to Brushy Bayou), City of Tallulah, LA. HDCA is serving as the engineer for drainage improvements to the Harlem Street area of Tallulah, an area suffering from repetitive flooding. As part of this FEMA-HMGP funded project, HDCA prepared a hydrology and hydraulics study and is responsible for preparation of preliminary and final design of a new drainage ditch to redirect drainage in the area beneath US Highway 80 to Brushy Bayou. Based on the results of the H&H Study, HDCA also assisted the client in seeking additional funding for further improvements which allowed for the replacement of the existing open channel with a closed box culvert system. Mr. Cole is responsible for coordination with FEMA and the HMGP. The project has been fully designed and construction has been deemed substantially complete. (ongoing)

Walnut Bayou Watershed Modeling, Madison Parish, LA. Mr. Cole assisted with the preparation of a digital elevation model and a two – dimensional "rain – on – grid" type HEC – RAS hydraulic model of the entire Walnut – Roundaway Watershed. Development of the model was accomplished using Soil Conservation Service methodologies for determination of design rainfall loading of the model. The model consisted of 100' grids and is driven by the hydraulic behavior of the Tensas River. The firm prepared model scenarios for 2 – year and 100 – year rainfall events using deterministic and scenario based methodology. (2020)

Lakefront Drainage Pump Station Improvements, St. Tammany Parish, LA. HDCA provided design services for this FEMA-funded project which involved repairs of a drainage pumping station damaged during Hurricane Issac. HDCA developed plans and specifications for this rehabilitation project which included the modification of pumps to elevate the motors above the base flood elevation, detailed specifications for a "repair or replace" option for the pump motors, a structural steel control and working platform, and other ancillary improvements. Mr. Cole is continuing to support the Parish throughout construction of the project through the review of contractor RFI's and submittals (2020)

City Barn Pump Station Drainage Improvements Project, Department of Public Utilities & Department of Engineering, City of Slidell, LA. HDCA was responsible for the design, bidding, and construction administration for FEMA HMGP-funded capacity improvement projects at the City Barn Drainage Pump Station since 2014. Mr. Cole served as the technical advisor over the project which included increasing the pumping capacity at the station from 400 cubic feet per second (CFS) to 640 CFS over the course of three phases. HDCA was responsible for the mechanical, structural, and electrical design of all project elements. All three phases of the project were successfully constructed and are now in operation. (2019)

Brewster Road Regional Drainage Study, St. Tammany Parish, LA. HDCA developed a comprehensive hydraulic and hydrologic model and drainage report of the Brewster Road area in western St. Tammany Parish. HDCA prepared a computerized hydraulic model of the area based upon existing data and LIDAR and GIS data collected specifically for the project. Based upon the model, HDCA developed inundation maps for storm events and provided STPG with recommendations for potential floodplain mitigation alternatives. Mr. Cole served as a Technical Advisor for the project. (2018)

FEMA Public Assistance Funding Arbitration for St. Bernard Parish's Drainage System, St. Bernard Parish, LA. HDCA personnel continue to support St. Bernard Parish Government as they recover from the damage sustained by Hurricanes Katrina and Rita. After years of preparation and field investigations, in November of 2018, HDCA personnel accompanied St. Bernard Parish officials to Washington D.C. to argue for FEMA Public Assistance funding for damage sustained to the Parish's drainage infrastructure. Mr. Cole has served as Program Manager for the overall FEMA-funded program. The requested funds would support the repair of damaged outfall locations and storm drain lines which occurred as a result of the floodwaters and the post-disaster recovery operations. The alleged damage to their drainage system includes:

- 386 identified disaster damaged drainage outfall locations (out of a total of 680 total drainage outfalls in St. Bernard Parish) which were damaged as a direct result of the removal of Katrina debris and silt from the canals which convey

TEC Professional Services Questionnaire

H. Davis Cole, P.E.

continued

water to the pumping stations. The team argued that the visible damage was caused by excavators, long reach excavators, and barges utilized in the removal of debris from the area, as well as the actual floodwater and debris itself.

- Over 200,000 lf of storm drain lines which are still so clogged with debris from the storm they're unable to be cleaned or CCTV'd to assess the damage. The damaged drain lines have led to other issues including ponding water, blockages, sinkholes, collapsing sidewalks, and collapsing street panels.

Due to our firm's involvement in St. Bernard's recovery from the beginning, HDCA staff members were able to provide expert witness testimony to support the Parish's request. The total request was for over \$200 million. (2018)

New River Canal Control Structure Study, Ascension Parish, LA. HDCA prepared a report which evaluated existing data and reports on the New River Canal, as well as evaluated alternative means of controlling the water surface elevation. HDCA also Parish. Mr. Cole served as a Technical Advisor for the project. (2017)

Comprehensive Master Drainage Plan for Enlink Fractionation Facility, Enlink Midstream, Geismar, LA. Mr. Cole served as technical advisor and client service manager for this project, which involved the development of a comprehensive master drainage plan for a two – hundred (200) acre natural gas fractionation facility in Geismar, Louisiana. The project consisted of three phases. In Phase I, HDCA prepared a computerized hydraulic model based upon a digital terrain surface model created using LIDAR data in HEC-RAS. This model was utilized to create inundation maps for various storm events. Following the construction and calibration of the hydraulic model using stage monitoring, HDCA developed recommendations for improvements for the site in its existing state (Phase II) and a fully developed state (Phase III). (2016)

Mechanical Bar Screen Cleaners & Platform Project, Department of Public Utilities, City of Slidell, LA. HDCA provided design engineering and construction administration services for the installation of automated bar screen cleaners at the City Barn Drainage Pump Station. The project included procurement and installation of stainless steel mechanical cleaners at a 400 cfs pump station which drains a majority of "Olde Towne" in Slidell. HDCA prepared construction documents for the screens, including a concrete support structure, isolation structure, and pre-cast working deck. Mr. Cole served as Technical Advisor. (2014)

Expert Witness Services for Brengettsey vs. LaDOTD, State of Louisiana Office of The Attorney General, Baton Rouge, LA. Mr. Cole served as an expert witness in this case involving an automobile accident in East Feliciana Parish for use by the Office of the Attorney General. HDCA prepared a hydraulic model to simulate the accident in this case, which involved flooding of a ditch which was attributed to the overflow of a water tower near a state highway. Mr. Cole's expert report included a HEC-RAS model which included inundation maps for various scenarios at the accident site. (2014)

Rehabilitation of North & South Florissant Drainage Pump Stations, Department of Public Works, St. Bernard Parish, LA. HDCA developed the design of hazard mitigation measures for drainage pump stations damaged by Hurricane Katrina. HDCA prepared construction documents and provided construction phase services for the reconstructed, elevated drainage stations. The reconstructed North Florissant DPS has a capacity of 25 cfs and the reconstructed South Florissant DPS has a capacity of 68 cfs. Coordination with FEMA for determination of eligible scope of work and hazard mitigation measures. Mr. Cole served as Principal Engineer/ Project Manager, responsible for oversight of mechanical, structural, and civil design aspects of the project. (2010)

City Barn Floodgate Replacement Project, Department of Public Utilities, City of Slidell, LA. HDCA personnel participated in the City's flood gate replacement project. The project involved the replacement of three 72 in x 72 in cast iron flood gates. The two- phase project consists of a procurement phase for which HDCA prepared procurement documents and specifications. HDCA personnel also prepared contract documents and specifications for the installation phase, which consists of dewatering of the site, installation of the new cast-iron slide gate assemblies, motor actuators, and installation of 3-phase power and control facilities to the new gate assemblies. Following this phase, HDCA prepared plans and specifications for the installation of a diesel generator and platform at the site. All phases were successfully let and bid. (2010)

Larose to Golden Meadow Hurricane Protection, U.S. Army Corps of Engineers, New Orleans District, LA. HDCA served as an equity partner of a joint venture corporation, The SBSA Group, Ltd., which was Prime Contractor for a USACE IDIQ contract. The SBSA Group was authorized to perform services involved in a USACE-assigned task order for a hurricane protection project, which was part of the Larose to Golden Meadow Hurricane Protection Project in LaFourche Parish; HDCA was responsible for project management and civil engineering tasks on portions of the issued task orders. The projects of interest included the Intracoastal Floodwall & Gate Structures, South LaFourche Crawfish Farm Pump Station and Floodwall, Pump Station#4, Loop T-Wall and Sheet pile Wall, Texaco Dock Floodwall & Gate Structure, Golden Meadow Pump Station, Floodwall & Gate Structure, Pump Station #1, and Pump Station #2 and Bason's Marina Access Road. Services included preparation of an Engineering Alternatives Report (EAR) for the selected site, performing an analysis of existing structures, developing design alternatives and preliminary cost estimates for what is required to stabilize the protection at its existing elevation as well as to the authorized levels, review of existing elevation as well as to the authorized levels, review of existing documentation pertaining to the sites, and providing detailed engineering and design (E&D) consisting of various design data as well as investigations and information for the EAR. The EAR included detailed geotechnical analysis and design and a structural analysis and design of the project's components for the existing and authorized elevations. Mr. Cole served as Technical Advisor. (2009)

TEC Professional Services Questionnaire

H. Davis Cole, P.E.

continued

Hurricane Protection Office, U.S. Army Corps of Engineers, New Orleans District, LA. HDCA provided staff for the USACE Hurricane Protection Office in services related to rehabilitation and restoration of drainage pump stations throughout Jefferson and St. Bernard Parishes. Mr. Cole oversaw staff extension services as Principal Engineer and provided overall task order management. (2007)

Peters Road Drainage Study, Regional Planning Commission for Jefferson, Orleans, Plaquemines, St. Bernard, and St. Tammany Parishes, New Orleans, LA. The proposed widening of Peters Road (located on the West Bank of Jefferson Parish, near the community of Harvey, Louisiana) prompted the Regional Planning Commission (RPC) to commission a comprehensive drainage study of the surrounding area to determine the impacts that the proposed roadway widening would have on the drainage patterns areas surrounding the roadway. To accomplish this task, a team of consultants was selected to conduct the drainage study. Mr. Cole was tasked with the development of a hydraulic model of the area using PCSWMM modeling software. Using the hydraulic model, drainage hydrographs were developed for the purpose of determining the adequacy of existing and proposed drainage systems along the roadway. Mr. Cole served as the Project Manager for this effort. (2006)

Old Norco Pump Station Improvements, Department of Public Works, St. Charles Parish, LA. This project consisted of the replacing the existing 125 cubic foot per second pump at the pumping station and providing a secondary containment structure around the diesel fuel storage tank at the facility. The 125 cfs pump was replaced with an axial flow type vertical pump driven by an existing diesel drive via a right angle gear drive, which was also replaced with the pump. The secondary containment structure was designed of reinforced concrete with ship ladders provided for operator access. Mr. Cole served as the Project Engineer for the design phase of this project. (2006)

Almedia Road Drainage Pump Station, Department of Public Works, St. Charles Parish, LA. Mr. Cole, as Project Engineer, prepared the Preliminary Design Memorandum for this proposed new 100 cfs drainage pump station. For this, Mr. Cole assisted with hydraulic calculations, site design and station layout, coordinated with adjacent property owners, and coordinated subconsultant services such as structural engineering, geotechnical engineering, and land surveying. (2003)



TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OR PROJECT:

Name & Title:

Avis Gaines, P.E.

Senior Civil Engineer

Project Assignment:

Civil Engineer

Name of Firm with which associated:



Years' experience with this Firm:

1 (2022 & previously as a contractor)

Education: Degree(s)/Year/Specialization:

BS, 2004, Civil Engineering, Louisiana State University

Active Registration: Year first registered/discipline:

2011, Civil Engineer, Louisiana, No. 35967

Other experience and qualifications relevant to the proposed Project:

Ms. Avis Gaines is a Professional Engineer with proven project management expertise in all project phases including planning, design and construction. She's a motivated team player with a demonstrated ability to interface stakeholder and client expectations with program and project mission, management, and delivery of projects.

Permanent Pump Stations at the Outfall Canals (Close-out), New Orleans, LA. Ms. Gaines was the project manager of the closeout of one of the largest and most complex projects of the Hurricane and Storm Damage Risk Reduction System. The \$854M Permanent Pump Stations project includes storm surge barriers and three (3) new pump stations at the mouth of Lake Pontchartrain on 17th Street Canal, Orleans Avenue Canal and London Avenue Canal which will reduce the risk of storm surge entering the canals. *(Independent Experience)*

Demolition of Interim Closure Structures (ICS) at the Outfall Canals, New Orleans, LA. Ms. Gaines served as a project manager for the single construction contract to decommission and demolish the ICS that were constructed on a temporary basis post Hurricane Katrina to ensure the integrity and adequate functioning of the floodwalls along the outfall canals. This demolition effort includes removing the above ground pumps, gates, generators, fuel tanks, discharge tubes, mechanical/electrical features, buildings, platforms and the closed cell sheet pile walls that were placed during construction. Ms. Gaines' responsibilities included:

- Coordination and implementation of activities and processes required for project close-out and fiscal completion
- Development and coordination of project Review Plans to establish a process for review of projects from planning through construction
- Coordination and management of multiple technical and supporting disciplines including the hydraulic, geotechnical, structural, mechanical, electrical, environmental, and real estate to establish contract and mission requirements
- Coordination and preparation of plans and specifications for contract solicitation
- Leadership of the Project Delivery Team to resolve technical project challenges including problem solving, building consensus and conflict resolution that resulted in solution which maintained high standards of quality
- Coordination and worked with the Customer/Stakeholder to address concerns and build consensus while maintain the goals of the project mission.
- Management and maintenance of the project scope, schedule, and budget

TEC Professional Services Questionnaire

Avis Gaines, P.E.

continued

- Coordination and development of project budgets and labor cost estimates for 3-year program, in conjunction with Project Management, Engineering Division, Construction Division, Safety, Environmental, Office of Counsel and Contracting Division for resourcing in P2 and CEFMS
- Regular review of CEFMS generated reports to monitor, track and report labor/resource requirements as well as project commitments, obligations, and expenditures
- The regular review and update of P2 and P6 project schedules to assure accurate upward reporting and to identify schedule risks/impacts and course corrections to mitigate impacts
- Utilization of the Change Management/Change Control Process to assess, document, track and obtain approval for project scope, schedule and budget changes.
- Preparation of Briefings and reports for internal and external management and public presentations (*Independent Experience*)

Storm Proofing Existing Pump Stations, Hurricane Protection Office, United States Army Corps of Engineers, New Orleans, LA. Ms. Gaines served as a project manager of the \$340M effort to storm proof existing pump stations including the construction of safe rooms and improvements/features such as hardening roofs, strengthening structures, increasing water resistance on structures, elevation or increasing water resistance of equipment associated with pump drives and switch gear, protecting and providing back-up power, and providing remote operation to allow for pump station operations during storm events. (*Independent Experience*)

Existing Pump Station Repairs, Hurricane Protection Office, United States Army Corps of Engineers, New Orleans, LA. Ms. Gaines served as part of HDCA's team to assess, rehabilitate and restore existing pump stations following Hurricane Katrina in Jefferson, Plaquemines, Orleans and St. Bernard Parishes. The \$110 million dollar program included repairs and replacements of various structural, mechanical, electrical and civil damages sustained by the storm. Ms. Gaines's role as a project manager included the coordination of design efforts between Architectural-Engineering Design firms and public entities. She also provided design oversight to ensure conformance of the repairs with requirements set forth by the Federal Government and local entities. Ms. Gaines' role also included the review of CEFMS-generated reports to monitor, track and report labor/resource requirements. She reviewed and updated P2 and P6 project schedules to ensure accurate upward reporting and to identify schedule risks/impacts and course corrections to mitigate impacts. (2006-2007)

Violet WWTP Transfer Pump Station, St. Bernard Parish, LA. Ms. Gaines served as part of HDCA's project design team to assist with investigations and prepare the Preliminary Design Report (PDR) which defined all design parameters for a proposed pump station required to transfer wastewater flows from the existing Violet WWTP service area to the consolidated Munster WWTP. (2006-2007)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT
Name & Title:
Rachel Merkl Civil Designer
Project Assignment:
Civil Designer
Name of Firm with which associated:
 H. Davis Cole & Associates, LLC
Years' experience with this Firm:
3 (2018)
Education: Degree(s)/Year/Specialization:
B.S., 2017, Civil & Environmental Engineering, University of New Orleans
Active Registration: Year first registered/discipline:
Traffic Control Supervisor & Technician Certification, ATSSA, 2019
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Merkl is a degreed civil engineer currently enrolled in a master's program in Architecture. She joined HDCA as a member of the Engineering Design team and assists with the creation of design documents for infrastructure projects. Ms. Merkl is skilled in AutoCAD, ArcGIS, RISA, HEC-GeoHMS, HEC-GeoRAS, EPANET, SketchUp and HEC-RAS, as well as the Adobe Creative Suite of programs.</p> <p>EXPERIENCE WITH JEFFERSON PARISH</p> <p>N. Hullen Drainage Improvements, Jefferson Parish, LA. HDCA is providing professional design services to Jefferson Parish for the preparation of construction documents for drainage and roadway improvements on North Hullen Street. The planned improvements to the street include subsurface drainage capacity improvements between 7th Street and the West Esplanade Canal and a complete reconstruction of the existing roadway. Ms. Merkl is assisting with the development of construction documents for the project. (ongoing)</p> <p>Bayou Segnette Drainage Pump Station Improvements, Jefferson Parish, LA. HDCA is providing engineering services for proposed improvements to the Bayou Segnette Drainage Pump Station No. 1. Improvements to the existing pump station will include the construction of a catwalk system to connect the pump station building to the proposed new access bridge, demolition of existing stationary bar racks upstream, construction of a new "Waskey" type bridge, installation of catenary trash rack system, and required electrical and controls facilities necessary to support such improvements. HDCA is responsible for overall project management and design of all elements related to the mechanical trash rack system. Ms. Merkl assisted with the preparation of construction documents. (ongoing)</p> <p>Brown Avenue Canal Improvements, Jefferson Parish, LA. HDCA is designing improvements to the area surrounding Brown Avenue on the West Bank of Jefferson Parish. Improvements to the area included the enclosure of the Brown Avenue Canal utilizing approximately 1,125 linear feet of 96" reinforced concrete pipe arch as well as cold-planing segments of the existing Brown Avenue and overlaying with new asphalt. Upon completion of the construction of the first phase of the project, Jefferson parish increased the scope of the project to include the remaining section of Brown Avenue for improvements. Phase II was recently successfully bid and construction began in early 2021. Ms. Merkl has assisted with the preparation of construction documents for both phases of the project. (ongoing)</p> <p>Improvements to the Ehret & Broas Lift Station (L-13-6), Jefferson Parish, LA. HDCA is providing design, permitting, bid phase, and construction phase services related to the restoration of functionality at the existing lift station on the west bank of Jefferson Parish. The existing station is to be demolished and replaced with a new, relocated station. The new station includes a wet well, valve pit, control panel, and emergency pump out, along with submersible pumps and Variable Frequency Drives (VFDs). Ms. Merkl is assisting with the preparation of construction drawings for the project. (ongoing)</p>

TEC Professional Services Questionnaire

Rachel Merkl

continued

New Avondale Library, Jefferson Parish, Louisiana. HDCA is serving as a subconsultant to N-Y Associates for the design of a new library branch for Jefferson Parish. The new library will be located in the Avondale area of Jefferson Parish's west bank. HDCA's role in the project included the structural engineering and foundation design. The project is currently in the final stage of design with bidding anticipated in late 2021. (ongoing)

Improvements to "Rheem" Building, Department of Drainage, Jefferson Parish, LA. HDCA prepared plans and specifications for modifications to the Drainage Department's Yard Facility on the East Bank of the Parish to provide for a dormitory and staging area for staff during emergency operations. Ms. Merkl assisted with the design of plans for the project and has provided periodic field services throughout construction. Construction was completed and the facility is currently in-use. (2020)

Metairie Road Smart Growth Program: Causeway Boulevard Intersection, Jefferson Parish, LA. HDCA is designing improvements at the intersection of Causeway Boulevard and Metairie Road as part of the overall revitalization and re-branding of the Metairie Road corridor. The scope of HDCA's project includes the removal and replacement of the existing asphalt, removal and replacement of ADA ramps, restriping of the pedestrian crossings, and the addition of pedestrian lighting and landscaping elements. The project is currently in the final phase of design. Ms. Merkl is assisting with the preparation of construction documents for the project. (ongoing)

Improvements to "Rheem" Building, Department of Drainage, Jefferson Parish, LA. HDCA prepared plans and specifications for modifications to the Drainage Department's Yard Facility on the East Bank of the Parish to provide for a dormitory and staging area for staff during emergency operations. Ms. Merkl assisted with the design of plans for the project and has provided periodic field services throughout construction. Construction was completed and the facility is currently in-use. (2020)

DRAINAGE IMPROVEMENT PROJECTS

W. Madisonville Drainage Improvements, St. Tammany Parish, LA. HDCA was recently selected to provide engineering services related to proposed improvements to the roadside drainage system along Brewster Road in Madisonville. The stretch of the road which will undergo improvements extends from LA Highway 1085 to Raiford Oaks Subdivision. Ms. Merkl is assisting with the development of construction documents for the project. (Ongoing)

Murray Hill Dr. and Destrehan Drive Drainage Improvements, St. Charles Parish, LA. HDCA was recently selected to provide drainage and paving improvements along Destrehan Drive and Murray Hill Drive in Destrehan, LA. The area is prone to impassable roadway conditions during storm events and as such, HDCA was retained to design a new subsurface drainage system including the addition of catch basins at gutter bottoms to convey the stormwater out of the area. The project also includes the accompanying roadway and driveway repairs. Mr. Merkl is providing civil design services for the project. (Ongoing)

Lurline Dr. Drainage Improvements, City of Covington, LA. HDCA is providing design services for the proposed roadway and drainage improvements along Lurline Drive in the River Forest Subdivision of Covington. The project, which will be divided into two sections, includes the total reconstruction of the storm drain system, as well as the reconstruction of the roadway utilizing 6" thick portland cement concrete and a 8" thick soil cement base course. Scope of the project also includes curb, gutter and driveway improvements. Ms. Merkl is assisting with the development of plans and specifications for the project. (Ongoing)

Raiford Oaks Drainage Improvements, St. Tammany Parish, LA. HDCA is providing professional engineering services for capacity improvements to the "Unnamed Stream" which flows through the Raiford Oaks Subdivision in the Brewster Road area of Madisonville. The purpose of the project is to improve the stormwater conveyance and increase retention in the area. The "Unnamed Stream" suffers from inconsistent profile and varying side slopes which will be improved as part of this project. HDCA will provide engineering design, bid phase, and construction services for the project, as well as environmental and permitting services. Project is in the preliminary phase of design. Ms. Merkl is assisting with the preparation of construction documents. (ongoing)

New River Canal Improvements, Ascension Parish, LA. HDCA is providing professional services in support of major maintenance activities on a 2.7 mile stretch of the New River Canal. The scope of the work has included grading the channel to a uniform bottom elevation, debris removal, grading the side slopes for uniformity within the existing top of the bank, implementing erosion control measures in selected locations, as well as removal of the existing weir. Ms. Merkl has assisted in the plan preparation for the project. Design of the project has been completed and was successfully bid. (ongoing)

St. Helena Parish HMGP Drainage Improvements, St. Helena Parish, LA. HDCA is currently developing hazard mitigation project alternatives to address the repetitive flooding occurring across St. Helena Parish during storm events. Phase I of the project includes the development of a detailed hydrologic and hydraulic (H&H) model to assess potential projects. HDCA will also support St. Helena Parish's development of Benefit Cost Analyses (BCA) of potential projects utilizing FEMA's BCA Toolkit. HDCA will also provide design, permitting, bid phase services, and construction administration of the funded projects (Phase II). (ongoing)

TEC Professional Services Questionnaire

Rachel Merkl

continued


Walnut Bayou Watershed Modeling, Madison Parish, LA. Ms. Merkl assisted with hydrologic and hydraulic (H&H) calculations for the development of a digital elevation model and a two – dimensional “rain – on – grid” type HEC – RAS hydraulic model of the entire Walnut – Roundaway Watershed. Development of the model was accomplished using Soil Conservation Service methodologies for determination of design rainfall loading of the model. The model consisted of 100’ grids and is driven by the hydraulic behavior of the Tensas River. The firm prepared model scenarios for 2 – year, 10 -- year and 100 – year rainfall events using deterministic and scenario-based methodology. (ongoing)

City Barn Drainage Improvements Project, Department of Public Utilities and Department of Engineering, City of Slidell, LA. HDCA was responsible for the design, bidding, and construction administration for FEMA HMGP-funded capacity improvement projects at the City Barn Drainage Pump Station. Ms. Merkl assisted with the preparation of plans for the pumping capacity expansion from 400 cubic feet per second (CFS) to 640 CFS for Phase III of the project. HDCA was responsible for mechanical, structural, and electrical design of all project elements. All phases of the project were successfully constructed and are in operation. (2019)

East Rutland Street Drainage Improvements, City of Covington, LA. HDCA provided engineering design and construction phase services to the City of Covington for improvements to the existing roadway and subsurface drainage configuration on a block of East Rutland Street in historic downtown Covington. The project included the removal and replacement of the existing box culvert, storm drains, and catch basins that service the area and replacing them with new 24” storm pipe and trench drains. The scope also included the restoration of the existing roadway with PCCP and asphaltic overlay. HDCA also obtained a survey of the area, as well as a CCTV condition assessment of the existing box culvert on behalf of the City. Ms. Merkl assisted with the development of construction documents for the project. (2019)



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT
Name & Title:
John Baucum Construction Manager
Project Assignment:
Resident Project Representative
Name of Firm with which associated:
 H. Davis Cole & Associates, LLC
Years' experience with this Firm:
10 (2011)
Education: Degree(s)/Year/Specialization:
A.A., 2021, Business Administration, Pearl River Community College ASCE Construction Engineering Certificate Program (CERCE17)
Active Registration: Year first registered/discipline:
Traffic Control Supervisor & Technician Certification, ATSSA, 2018
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Baucum is an experienced water & sewer operator, with advanced knowledge of many aspects of public works construction. Mr. Baucum serves as a Construction Manager for HDCA, responsible for Construction Phase Services and Resident Inspection in support of design activities. Mr. Baucum's breadth of knowledge is evident in both his communications in the field and astute reporting of observations.</p> <p>EXPERIENCE WITH JEFFERSON PARISH</p> <p>Brown Avenue Canal Improvements, Jefferson Parish, LA. HDCA is designing improvements to the area surrounding Brown Avenue on the West Bank of Jefferson Parish. Improvements to the area included the enclosure of the Brown Avenue Canal utilizing approximately 1,125 linear feet of 96" reinforced concrete pipe arch as well as cold-planing segments of the existing Brown Avenue and overlaying with new asphalt. Upon completion of the construction of the first phase of the project, Jefferson parish increased the scope of the project to include the remaining section of Brown Avenue for improvements. Phase II of the project was successfully bid and construction began in early 2021. Mr. Baucum is assisting with construction management of the project.(ongoing)</p> <p>Improvements to "Rheem" Building, Department of Drainage, Jefferson Parish, LA. HDCA prepared plans and specifications for modifications to the Drainage Department's Yard Facility on the East Bank. Improvements included the addition of a dormitory and staging area for staff during emergency operations. Mr. Baucum also provided Resident Inspection Services periodically throughout construction of the project. Construction has been completed and the facility is now in-use. (2020)</p> <p>Sewer Lift Station L12-3 Rehabilitation, Department of Sewerage, Jefferson Parish, LA. HDCA was selected to provide engineering analysis and design of a relocated lift station to replace an obsolete station currently in operation. The new station is a triplex station with three 100 HP submersible sewage-handling pumps. HDCA prepared bid documents for the new station and associated piping modifications. The overall station capacity is 3100 GPM. Construction cost was \$1.4 M and the project was completed successfully. Mr. Baucum served as Resident Project Representative. (2013)</p> <p>DRAINAGE IMPROVEMENT PROJECTS</p> <p>City Barn Drainage Improvements Project, Department of Engineering and Department of Public Utilities, City of Slidell, LA. HDCA was responsible for the design, bidding, and construction administration for multiple FEMA HMGP-funded capacity improvement projects at the City Barn Drainage Pump Station. The purpose of the projects is to improve the station's pumping capacity from 400 cubic feet per second (CFS) to 640 CFS. Mr. Baucum served as Resident Project Representative and provided daily inspection services in the field throughout the construction of all three phases. HDCA was responsible for mechanical, structural, and electrical design of all project elements. All phases of the project have been completed and are now in operation. (2019)</p>

TEC Professional Services Questionnaire

John Baucum
continued


East Rutland Street Drainage Improvements, City of Covington, LA. HDCA provided engineering design and construction phase services to the City of Covington for improvements to the existing roadway and subsurface drainage configuration on a block of East Rutland Street in historic downtown Covington. The project included the removal and replacement of the existing box culvert, storm drains, and catch basins that service the area and replacing them with new 24" storm pipe and trench drains. The scope also included the restoration of the existing roadway with PCCP and asphaltic overlay. HDCA also obtained a survey of the area, as well as a CCTV condition assessment of the existing box culvert on behalf of the City. Mr. Baucum provided periodic site inspections over the duration of construction. (2019)

Idaho Avenue Drainage Improvements, City of Kenner, LA. HDCA provided "third-party" resident inspection services in support of construction administration activities for this project which included the construction of large diameter drainage piping along Idaho Avenue between 24th and 25th Streets in the City of Kenner. Mr. Baucum provided inspection services for excavation, bedding, and backfill for large diameter reinforced concrete pipe arch drain lines, relocation of existing water lines concrete pavement, and sidewalk reconstruction. Mr. Baucum also coordinated with the City, Contractor, and Residents to ensure that local businesses and residences were minimally impacted by the Contractor's operations. Construction was successfully completed. (2016)

Mechanical Bar Screen Cleaners and Platform Project, Department of Public Utilities, City of Slidell, LA. As part of a hazard mitigation project to enhance reliability and pumping capacity at the City Barn Drainage Pump Station, HDCA provided engineering and construction management and inspection services for the installation of mechanical bar screen cleaners at City Barn Drainage Pump Station. The project included three new mechanical bar screen cleaner devices, sheet pile isolation walls, a precast concrete working deck, deep foundations and a cast-in-place bar screen support structure. Mr. Baucum served as resident project representative, responsible for daily inspection, coordination with the Contractor, and general construction administration. (2014)

Homewood Area Drainage Improvements, Department of Public Works, St. John the Baptist Parish, LA. Mr. Baucum served as an Inspector for this drainage infrastructure improvements project which involved the installation of a 72-inch diameter culvert crossing US Highway 61. As the highway could not be taken out of service, the culvert crossing was installed via jack-and-bore methods. The improvements were part of the overall improvements in drainage infrastructure leading up to the Homewood Drainage Pump Station. Responsibilities included capture of images of the progress of the work, observation of the installation of the culvert crossing and associated levee relocation, and roadway reconstruction. Mr. Baucum prepared and maintained daily inspection reports and an independent log of job quantities. (2011)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT
Name & Title:
Jason Guy Construction Project Manager (<i>Contractor</i>)
Project Assignment:
Construction Phase Services
Name of Firm with which associated:
 H. Davis Cole & Associates, LLC
Years' experience with this Firm:
<i>Contractor</i> (Since 2015)
Education: Degree(s)/Year/Specialization:
B.S., 1995, Civil Engineering, Louisiana State University
Active Registration: Year first registered/discipline:
Not Applicable
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Guy has a Bachelor of Science degree in Civil Engineering and over two decades of experience providing construction management, program management, estimating, quality control, surveying and design service for governmental and municipal infrastructure projects. He specializes in the construction administration of general municipal and private projects and has participated in the design of a wide variety of projects. Mr. Guy has been instrumental in the successful construction management of federally funded projects including the recovery efforts following Hurricanes Katrina & Rita in St. Bernard Parish, Louisiana.</p> <p>CONSTRUCTION PROGRAM MANAGEMENT</p> <p>Program Management Services for FEMA Funded Capital Repairs – Gravity Sewer Repairs, Department of Public Works, St. Bernard Parish, LA. Mr. Guy also handled the oversight of the cleaning, video inspection, and lining of approximately 500,000 linear feet of gravity sewer lines and approximately 1,500 manholes damaged by Hurricane Katrina in 2005. His responsibilities included coordination with State and Federal FEMA officials, scope alignment, tracking, and management of project worksheets and versions, and determination and inspection of uncaptured damages. During Mr. Guy's tenure of oversight, the project has been increased from zero Federally-obligated funding to a \$48 M program. (Ongoing)</p> <p>Roadway Rehabilitation Program, St. Bernard Parish Government, LA. As a Construction Manager for the Roadway Rehabilitation Program, Mr. Guy has assisted in identifying and justification of additional eligible storm damage throughout both the design phase and construction phase for FEMA assessment. Mr. Guy has facilitated the resolution of construction-related field issues with third-party architects and engineers, contractors, and St. Bernard Parish Government. Mr. Guy works to ensure construction schedules are followed and maintained. Mr. Guy has also served as an Owner's Representative to address and resolve resident complaints related to the construction activities. (Ongoing)</p> <p>Canal Crossing Projects, St. Bernard Parish Government, LA. Mr. Guy's duties included, but were not limited to, acquiring scope approval and funding authorization for project eligibility from FEMA (developing a Project Worksheet), facilitating proper procurement for A/E and construction services, identifying and justifying additional eligible storm damage throughout both the design phase and construction phase for FEMA assessment (versioning a Project Worksheet), reviewing, analyzing cost, a processing of contract amendments and change orders, processing all applications for payment while assuring compliance with State guidelines and FEMA eligibility. He was also responsible for holding regularly scheduled progress meetings with the A/E, contractor, and Owner during the construction phase, facilitating resolution of construction-related field issues with A/E, contractor, and Owner, serving as an Owner's representative to address and resolve resident complaints related to the construction activities, ensuring construction schedules are followed and maintained, performing regular site visits and project</p>

TEC Professional Services Questionnaire

Jason Guy
continued

walk-throughs as part of invoicing and change order reviews, tracking all project-related costs and billings, facilitating project close-out for both construction and grants management (maintain project files and transmittals), reporting on a weekly basis updated project summaries for the Parish President. (Ongoing)

DOTD Submerged Roads Program - St. Bernard Parish Street Rehabilitation Program, St. Bernard Parish, Chalmette, LA. HDCA served as a subconsultant to Digital Engineering and Imaging Inc. for this DOTD Submerged Roads Program project. HDCA provided Construction Engineering and Inspection (CE&I) services for this Parish-wide, multi-street project. The construction consisted of clearing and grubbing, grading, cold planing asphaltic concrete, and pavement patching. Materials utilized included Class II Base course, Superpave asphaltic concrete overlay, Superpave asphaltic concrete pavement, and Portland Cement Concrete Pavement. Mr. Guy represented HDCA both in the field and at construction progress meetings and was heavily involved in daily CE&I activities. Construction has been completed and the project is awaiting closeout. (ongoing)


Lake Lery Marsh Creation CIAP Program Management, Department of Public Works, St. Bernard Parish, LA. HDCA served as the Parish's Construction Program Manager for this Coastal Impact Assistance Program (CIAP) - funded project in Delacroix, Louisiana. The project involved dredging and material placement for the creation of approximately 67 acres of marsh in Lake Lery adjacent to Bayou Terre aux Boeufs. As Construction Program Manager, HDCA served as the Owner's Representative during construction, responsible for oversight of the construction administration process, coordination and interface with grant and regulatory agencies, overall grants management and closeout, and construction inspection. Mr. Guy assisted with field support services and construction administration for the duration of construction of Phase I of the project which was completed in 2017. HDCA was recently awarded Phase II of this project which will include the creation of an additional 23 acres of new marsh. (Ongoing)

Task Order No. 3 - JIRR Program Assessment, Department of Public Works, City of New Orleans, LA. HDCA, as part of a Joint Venture with CSRS, Inc., provided the City of New Orleans' Public Works Department with an overall assessment of the FEMA-funded Joint Infrastructure Road Recovery (JIRR) Project. The assessment included the overall evaluation of ongoing roadway projects, department manpower, management costs, operating procedures, construction market and vendor capacity, as well as recommendations to ensure successful JIRR program compliance in accordance with federal, state and city requirements. Mr. Guy was embedded within the Department to observe day-to-day operations and develop tailored recommendations aimed at improving the efficiency of the program's delivery. (2019)

City of Central Flood Recovery, Project Management and Funding Management Program, City of Central, LA. A team of HDCA and CSRS, Inc. staff members worked together to assist the City of Central following the devastating 1,000-year flood that impacted residents in August 2016. Our team assisted the City with program management, funding decisions, and the development of processes needed to expedite the obligation of disaster relief funding. Mr. Guy provided technical assistance in conducting damage assessments and cost estimates for the program. (2019)

Delacroix Assembly Center, St. Bernard Parish, Louisiana. HDCA provided professional engineering services for the Pavilion and Dockside Improvements to the Delacroix Assembly Center in St. Bernard Parish. The project included the preliminary and final design of the bulkhead & waterfront fishing pavilion, as well as a mobile boat hoist, travel crane platform, as well as overall improvements at the site including an access road. All phases of the project were successfully bid and constructed. Mr. Guy provided construction phase services over the course of construction. (2018)



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT
Name & Title:
Angie Triche Administrative/Project Controls
Project Assignment:
Administrative/Project Controls
Name of Firm with which associated:
 H. Davis Cole & Associates, LLC
Years' experience with this Firm:
13 (2008)
Education: Degree(s)/Year/Specialization:
B.S., 2013, Management, University of Phoenix
Active Registration: Year first registered/discipline:
Not Applicable
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Triche serves as a Project Control Specialist at HDCA, responsible for financial and document controls for various projects. Ms. Triche has been responsible for the accounting management of task orders for The SBSA Group, HDCA's Joint Venture company. Additionally, Ms. Triche has skillfully managed the financial reporting aspect of the firm's involvement in the program management of the FEMA-funded hurricane recovery of St. Bernard Parish since the program's inception.</p> <p>Hurricane Recovery Administrative & Program Management, St. Bernard Parish, LA. Ms. Triche is serving as document control coordinator for the management of FEMA – funded recovery projects in St. Bernard Parish, Louisiana. Ms. Triche's duties include the logging and tracking of incoming documents, distribution of documents to the appropriate Program Manager or Parish Personnel, preparation and maintenance of Project Worksheet Files to ensure that all are ready for closeout, and invoice tracking. Ms. Triche's challenging role includes the tracking and maintenance of documents for over 550 individual projects. (ongoing)</p> <p>SBSA Task Orders 3, 7, 8, 9, 11, 13, 50, 64, 87, 92, 97. Ms. Triche oversaw billing and invoicing for these task orders for the U.S. Army Corps of Engineers (USACE). These "Staff Extension" Task Orders required detailed invoicing and accounting procedures, and Ms. Triche was responsible for overseeing and coordinating all invoicing activities for multiple staff extension personnel in accordance with USACE standards. (2015)</p>

TEC Professional Services Questionnaire

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




PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">New River Canal Channel Improvements Gonzales, Louisiana</p> <p>Ascension Parish Government Department of Public Works 42077 Churchpoint Road Gonzales, LA 70737</p> <p style="text-align: center;">Ron Savoy Project Manager (225) 450-1335 rsavoy@apgov.us</p>	<p>HDCA was retained by Ascension Parish to evaluate several flood control scenarios to determine which would be most advantageous to improve stormwater conveyance in the New River Canal. After completing this assessment and taking in to account Owner preference, HDCA determined that the option to remove an existing weir within the Canal and re-shape the existing channel would provide the most benefit. HDCA was then retained to provide design services in support of major maintenance activities on a 2.7 mile stretch of the New River Canal. The scope of the work includes grading the channel to a uniform bottom elevation, debris removal, grading the side slopes for uniformity within the existing top of the bank, implementing erosion control measures in selected locations, as well as removal of the existing weir. Removal of the weir will allow Ascension Parish to pump down New River in anticipation of storm events. Construction will remove 96,743 CY of material. The project was successfully designed and bid with construction underway. HDCA will provide construction administration and resident project representation for the duration of construction.</p> <p><i>Role: Preliminary Design, Final Design, Bid Phase Services, Construction Phase Services</i></p> <p><i>Relevant Scope: Drainage Conveyance Improvements, Channel Shaping & Dredging, Hydrologic & Hydraulic Analysis & Study</i></p>	
 <p style="text-align: center;"><i>Existing Conditions of the New River</i></p>	 <p style="text-align: center;"><i>Section of the New River Canal for planned improvements</i></p>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022(E)	\$4,816,000.00	\$585,000.00 (fee)

TEC Professional Services Questionnaire

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

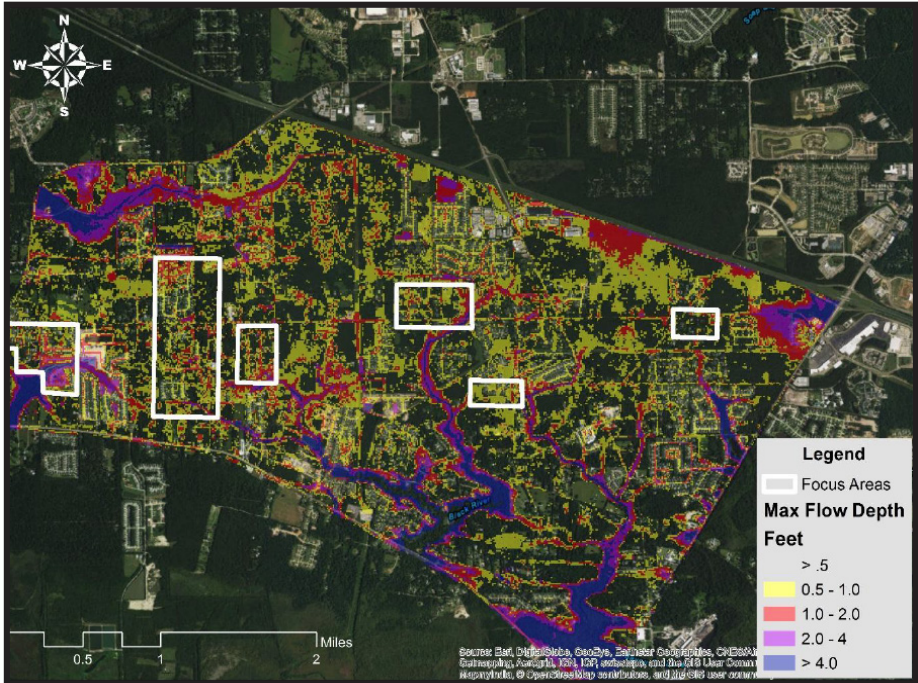
PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Brown Avenue Drainage Canal Improvements (Phases I & II) Harvey, Louisiana</p> <p>Jefferson Parish Department of Capital Projects 1221 Elmwood Park Blvd., Suite 906 Jefferson, LA 70123</p> <p>John O'Connor, P.E. (504) 736-6833 joconnor@jeffparish.net</p>	<p>HDCA designed improvements to the area surrounding Brown Avenue on the West Bank of Jefferson Parish. Improvements to the area included the enclosure of the Brown Avenue Canal utilizing approximately 1, 125 linear feet of 96" reinforced concrete pipe arch as well as cold-planing segments of the existing Brown Avenue and overlaying with new asphalt. Construction of the project has been deemed substantially complete. HDCA provided construction phase services for the duration of the work.</p> <p>During construction of Phase I, Jefferson Parish expanded the scope of the project to include closing in the remaining 400 feet of the canal along Brown Avenue. Phase II of the project is currently under construction and nearing completion.</p> <p><i>Role: Preliminary Design, Final Design, Bid Phase Services, and Construction Phase Services</i></p> <p><i>Relevant Scope: Drainage Conveyance Improvements, Open Channel Enclosure, Experience with Jefferson Parish</i></p>	
 <p style="text-align: center;"><i>Enclosed portion of the Brown Avenue Canal completed in Phase I of the project.</i></p>	 <p style="text-align: center;"><i>Brown Avenue Canal prior to improvements to be undertaken in Phase II.</i></p>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022 (E)	\$1,800,000.00	\$131,000.00 (fee)

TEC Professional Services Questionnaire

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

PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Brewster Road Regional Drainage Study Covington, Louisiana</p> <p>St. Tammany Parish Government Department of Engineering P.O. Box 628 Covington, LA 70434</p> <p>Jason Cambre, P.E. Project Engineer (985) 898-2552 jpcambre@stpgov.org</p>	<p>HDCA developed a comprehensive hydrologic and hydraulic model and drainage report of the Brewster Road area in western St. Tammany Parish. The model included watershed delineations and conceptual floodplain mitigation alternatives for the rapidly developing area. The computerized hydraulic model of the area was created using FLO-2D software and based upon data gathered through LIDAR, geographic information system (GIS) layers, flood insurance survey (FIS) and existing subdivision drainage plan information. HDCA developed inundation maps for various storm events and provided the Parish with recommendations for potential floodplain mitigation alternatives. HDCA also provided St. Tammany Parish with cost opinions, and conceptual level plans for the proposed solutions. Full implementation of the proposed capital program was estimated to cost up to \$22,200,000.00.</p> <p><i>Role: Engineering Assessment, Hydrologic & Hydraulic Modeling</i></p> <p><i>Relevant Scope: Drainage Conveyance Improvements, Hydrologic & Hydraulic Analysis & Study</i></p> <div style="text-align: center;">  <p>Legend</p> <ul style="list-style-type: none"> □ Focus Areas Max Flow Depth Feet > .5 0.5 - 1.0 1.0 - 2.0 2.0 - 4 > 4.0 </div> <p style="text-align: center;"><i>25-Year Storm Model Run of Study Area in Covington, LA</i></p>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	NA	\$366,000.00 (fee)

TEC Professional Services Questionnaire

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

PROJECT NO. 4

Project Name, Location and Owner's contact information:

Nature of Firm's Responsibility:

**East Rutland Street Drainage Improvements
Covington, Louisiana**

City of Covington
Department of Engineering
317 North Jefferson Avenue
Covington, LA 70433

Callie Baker, City Engineer
985-892-1811
cbaker@covla.com

HDCA provided engineering design services to the City of Covington for improvements to the existing roadway and subsurface drainage configuration on a block of East Rutland Street in historic downtown Covington. The project included the removal and replacement of the existing box culvert, storm drains, and catch basins that service the area and replacing them with new 24" storm pipe and trench drains. The scope also included the restoration of the existing roadway with PCCP and asphaltic overlay. HDCA also obtained a survey of the area, as well as a CCTV condition assessment of the existing box culvert on behalf of the City.

Role: Preliminary Design, Final Design, Bid Phase Services, and Construction Phase Services

Relevant Scope: Subsurface Drainage Improvements



Completed Improvements to E. Rutland Street in Downtown Covington

Completion Date (Actual or Estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

2019

\$335,000.00

\$34,000.00 (fee)

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.		
PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Walnut Bayou Modeling Services Madison Parish, Louisiana</p> <p style="text-align: center;">SWCA, Inc. Baton Rouge Office 1651 Lobdell Avenue, Building A Baton Rouge, LA 70806</p> <p>Will Norman, Project Manager (225) 663-3830 will.norman@swca.com</p>	<p>H. Davis Cole & Associates, LLC prepared a digital elevation model and a two-dimensional "rain-on-grid" type HEC-RAS hydraulic model to assist in support of drainage capacity improvements within the Walnut Bayou Watershed in Madison Parish. HDCA, as a sub-consultant to SWCA, Inc., developed the model utilizing Soil Conservation Service methodologies for determination of design rainfall loading of the model. The model consisted of 100' grids and was driven by the hydraulic behavior of the Tensas River. HDCA prepared model scenarios for 2-year and 100-year rainfall events using deterministic and scenario based methodology. HDCA's completed model will be utilized throughout the project to evaluate the existing fluvial geomorphological conditions of the area, as well as assess the efficacy of proposed design alternatives.</p> <p><i>Role: Hydrologic & Hydraulic Modeling Services</i></p> <p><i>Relevant Scope: Hydrologic & Hydraulic Modeling, Hydrologic & Hydraulic Analysis, Drainage System Improvements</i></p>	
Completion Date (Actual or Estimated):	Estimated Cost:	
2021	Entire Project: NA	Work for which Firm was Responsible: \$40,000.00 (fee)
PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>N. Hullen Drainage Improvements Metairie, Louisiana</p> <p style="text-align: center;">Jefferson Parish Department of Capital Projects 1221 Elmwood Park Blvd., Suite 906 Jefferson, LA 70123</p> <p>John O'Connor, P.E. (504) 736-6833 joconnor@jeffparish.net</p>	<p>HDCA is providing professional design services to Jefferson Parish for the preparation of construction documents for drainage and roadway improvements on North Hullen Street. The planned improvements to the street include subsurface drainage capacity improvements between 7th Street and the West Esplanade Canal and a complete reconstruction of the aging concrete roadway. The project was recently successfully bid and is currently under construction.</p> <p><i>Role: Preliminary Design, Final Design, Bid Phase Services, Resident Inspection Services and Construction Phase Services</i></p> <p><i>Relevant Scope: Subsurface Drainage Improvements, Experience with Jefferson Parish</i></p>	
Completion Date (Actual or Estimated):	Estimated Cost:	
2022 (E)	Entire Project: \$1,350,000.00 (E)	Work for which Firm was Responsible: \$185,000.00 (fee)

TEC Professional Services Questionnaire

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



PROJECT NO. 7

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bayou Segnette Drainage Pump Station Westwego, Louisiana</p> <p>Jefferson Parish Department of Capital Projects 1221 Elmwood Park Blvd., Suite 907 Jefferson, LA 70123</p> <p>Ben Lepine (504) 736-6151 blepine@jeffparish.net</p>	<p>H. Davis Cole & Associates, LLC is currently providing engineering services for proposed improvements to the Bayou Segnette Drainage Pump Station No. 1. Improvements to the existing pump station will include construction of a catwalk system to connect the pump station building to the proposed new access bridge; demolition of the existing stationary bar racks upstream; construction of a new "Waskey" type bridge; installation of catenary type mechanical trash rack system; and required electrical and control facilities to support proposed improvements. Construction of the project is completed and operational.</p> <p><i>Role: Preliminary Design, Final Design, Bid Phase Services, and Construction Phase Services</i></p> <p><i>Relevant Scope: Drainage Pump Station Improvements, Drainage System Improvements, Experience with Jefferson Parish</i></p>	
 <p><i>Bayou Segnette DPS No. 1 prior to improvements.</i></p>	 <p><i>Ongoing construction at Bayou Segnette DPS No. 1</i></p>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$4,800,000.00	\$294,000.00 (fee)

TEC Professional Services Questionnaire

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


PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Raiford Oaks Channel Improvements Madisonville, Louisiana</p> <p>St. Tammany Parish Government Department of Engineering P.O. Box 628 Covington, LA 70434</p> <p>Laura Gatlin, PMP Project Manager (985) 898-2552 lcbeach@stp.gov.org</p>	<p>HDCA is providing professional engineering services for the proposed improvements to the "Unnamed Stream" which flows through the Raiford Oaks Subdivision in Madisonville. The purpose of the project is to improve the stormwater conveyance and increase retention in the area. The "Unnamed Stream" suffers from inconsistent profile and varying side slopes which will be improved as part of this project. HDCA will provide engineering design, bid phase, and construction services for the project, as well as environmental and permitting services. Project is in the preliminary phase of design.</p> <p><i>Role: Preliminary Design, Final Design, Bid Phase Services, Permitting, and Construction Phase Services</i></p> <p><i>Relevant Scope: Subsurface Drainage Improvements, Drainage Conveyance Improvements</i></p>	
<div style="display: flex; justify-content: space-around;">   </div> <p style="text-align: center;"><i>Existing conditions of the "Unnamed Stream" in Madisonville, LA</i></p>		
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022(E)	\$530,000.00 (E)	\$77,000.00

TEC Professional Services Questionnaire

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

PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>USACE W912P8-08-D-0062, National Levee Safety Program (Periodic Levee Inspections) Venice to St. Jude Plaquemines Parish, Louisiana</p> <p>USACE New Orleans District 7400 Leake Ave New Orleans, LA 70118</p> <p>Richard Varuso USACE New Orleans District 504-862-2984</p> <p>Ken J. Dugas, P.E. Plaquemines Parish Government 504-297-5343</p>	<p>HDCA's Joint Venture (JV) Company, The SBSA Group, has provided levee inspection services to the New Orleans District of the U.S. Army Corps of Engineers. The 73.44 mile levee system is made up of 66.15 miles of levee and 7.29 miles of floodwalls which collectively provide flood damage reduction to a defined area. This particular task order involved a visual inspection of levees, floodwalls, pump stations, relief wells, flood control structures, and flood gates contained within levee systems as part of the National Levee Safety Program Periodic Inspections. Failure of one component within the system constitutes failure of the entire system. The levee system is inclusive of all components that are interconnected and necessary to ensure protection of the associated separable floodplain levee and floodwall sections, closure structures, pumping stations, culverts and interior drainage works. The purpose of the periodic inspections was to verify proper operation and maintenance; evaluate operational adequacy and structural stability; review design criteria to identify changes in current design standards; identify features to monitor over time; and improve the ability to communicate over the overall condition.</p> <p>The inspections included levee reaches on the west bank of Plaquemines Parish, and inspection of levees, floodwalls, nine large drainage pump stations and their respective barscreens and emergency generators, and the Empire Flood Gate. Deliverables for the project included a final inspection recommendation to USACE and delivery of the Official Outbrief to New Orleans District USACE personnel.</p> <p><i>Role: Engineering Assessment, Levee & Drainage Infrastructure Inspection</i></p> <p><i>Relevant Scope: Drainage Infrastructure Assessment</i></p>	
		
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2010	\$985,000.00	\$110,000.00 (fee)

TEC Professional Services Questionnaire

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

PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Pumping Capacity Improvements at the City Barn Drainage Pump Station (Phases I-III) Slidell, LA</p> <p style="text-align: center;">City of Slidell Department of Engineering Post Office Box 828 Slidell, LA 70459</p> <p>Blaine Clancy, P.E., City Engineer 985-646-4270 bclancy@cityofslidell.org</p>	<p>HDCA was responsible for the design, bidding, and construction administration (including daily resident inspection) for multiple capacity improvement projects at the City of Slidell's City Barn Drainage Pumping Station. The goal of all three major projects was to increase the reliability of pumping operations to reduce the risk of flooding in Olde Town Slidell, the City's historic district.</p> <p>Design and construction of the project was broken into three phases due to funding constraints. In the first phase, HDCA designed a pumping capacity expansion which increased the total capacity of the pumping station from 400 CFS to 575 CFS and included a new working platform and new diesel – driven drainage pump with right angle gear drive. The project was completed in 2017 and cost \$1.6 million. The second phase included the installation of a fourth mechanical bar screen cleaner device to accommodate increased flow at the station. The second phase included modifications to the station controls and station safe house to provide an on – site safe environment to monitor and control the pumping station during severe weather events. The project was completed in September of 2018 and cost \$1.8 million. The third phase, included the replacement of the existing 67 CFS "low – lift" pump with a 133 CFS diesel driven pump, thus increasing the station capacity to 640 CFS. The third phase cost \$1.0 million and was completed in December 2019. All phases were funded by the Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant Program (HMGP).</p> <p><i>Role: Preliminary Design, H&H Modeling Final Design, Bid Phase Services, Permitting, Resident Inspection Services and Construction Phase Services</i></p> <p><i>Relevant Scope: Hydraulic & Hydrologic Analysis & Modeling, Drainage Pump Station Improvements, Drainage System Improvements</i></p>	
<div style="display: flex; justify-content: space-around;">   </div> <p style="text-align: center;"><i>Completed improvements to the City Barn Drainage Pump Station in Slidell, LA</i></p>		
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2010	\$4,330,000.00	\$727,000.00 (fee)

TEC Professional Services Questionnaire

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

Parties:		Status/ Result of Case:
Plaintiff:	Defendant:	
1. HDCA has never been involved in litigation with Jefferson Parish.		
2.		
3.		
4.		

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



**H. Davis Cole &
Associates, LLC**
Consulting Engineers

FIRM HISTORY

HDCA was founded in 2006 and has rapidly grown to be a leader in providing exceptional client services to meet the public works engineering and environmental needs of municipal, governmental, and private sector through performance, quality, and teamwork. HDCA was recently awarded a **Louisiana ACEC Engineering Excellence Honor Award** in 2019 for the firm's involvement in the Comprehensive Water System Replacement project undertaken for the Town of St. Joseph, Louisiana. Our highly qualified team of motivated professionals provides a variety of services that include design, engineering and analyses, field investigations, construction management, construction inspection, computer modeling, environmental documentation, permitting, and regulatory support. For **three years in a row**, HDCA was included in the LSU 100, which recognizes the fastest growing LSU-alumni-owned businesses in the world. Each year, the award distinguishes one hundred successful entrepreneurs hailing from Louisiana State University who best embody the institution's values, character and leadership. The company is licensed in the States of Louisiana, Mississippi and Texas with professional engineers registered in all states. HDCA offices are located in Chalmette and New Orleans, Louisiana.

HDCA's staff members have a plethora of experience in Civil and Environmental Engineering, all of which is in the design and construction oversight of major infrastructure projects in an engineering consulting firm setting. The primary areas of expertise



**LOUISIANA
ECONOMIC
DEVELOPMENT**

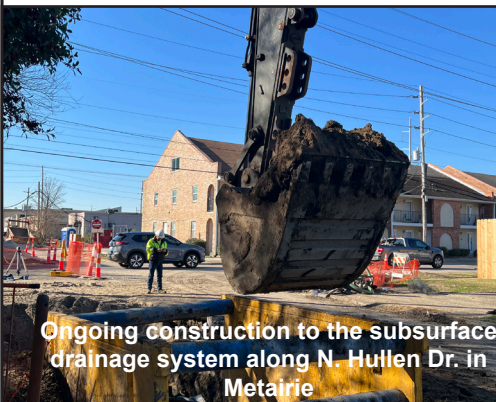
Certified Small Entrepreneurship • Hudson Initiative

TEC Professional Services Questionnaire

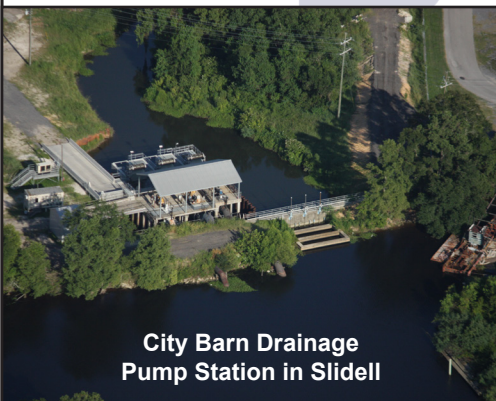
N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed Project.

for the HDCA staff is in the drainage, roadway and water & wastewater arenas. The vast majority of HDCA's workload has been in the federally funded capital repair sector, including program and project management, design, and eligibility assessment and inspection services. HDCA has also provided technical services to various industrial entities. Furthermore, HDCA was an equity partner of a joint venture corporation, The SBSA Group, Ltd., which was a Prime Contractor for a \$50M USACE IDIQ contract.

EVALUATION CRITERIA



1. Professional training and experience in relation to the type of work required for the routine engineering services:



HDCA has worked with almost every facet of the public sector and the private industry, serving individual clients with the utmost professionalism. The personnel at HDCA possess a wide range of experience in terms of both project type and magnitude. This is evidenced in the résumés of our key personnel provided within this Questionnaire.

HDCA possesses significant in-house capabilities, including Computer Aided Design and Drafting (CADD) capabilities using AutoCAD, MicroStation and structural modeling utilizing RISA-3D software package. HDCA also possesses significant sewer and water modeling capabilities through Bentley SewerGEMS and expertise with EPANET. HDCA is committed to maintaining the latest technology available to our profession to improve our ability to stay connected and accessible to our clients. This commitment extends into the production aspects of our business by using technology to improve our work efficiency and accuracy. This commitment to technology results in significant savings to our clients in both the schedule and budget.

To supplement our in-house staff capabilities and expertise, we maintain an extensive professional network and have maintained strong personal and professional relationships with large & small specialty firms that provide supporting services such as wetlands specialists, FEMA specialists, grant managers, electrical engineering, structural engineering, geotechnical engineering, environmental engineering, land surveying, and materials testing / inspections / construction quality control services, on whom we rely as needed to assist us in special design considerations that are outside our area of expertise. These relationships allow us to provide comprehensive, turn-key, engineering services to our clients. As required, we employ capable, experienced sub-consultants on an as needed basis for specialized tasks.

HDCA personnel have successfully managed and/or participated in a variety of projects including U.S. Army Corps of Engineers (USACE) projects, FEMA Hurricane Recovery and Restoration Program Management and Engineering Design Projects, FEMA Hazard Mitigation Grant Program Planning and Engineering Design Projects, Louisiana Community Development Block Grant (LCDBG) Program Projects, and general engineering design.

TEC Professional Services Questionnaire

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

2. Capacity for timely completion of newly assigned work, considering the factors of type of routine engineering tasks, current unfinished workload, and person or firm's available professional and support personnel.

Based on the firm's current and expected project workload and schedule, HDCA is capable of allocating the necessary resources and manpower required to support Jefferson Parish for the duration of the design and construction of any assigned sewerage project. The contract and project management philosophy of HDCA is to maintain a strong working relationship with the client to protect your interests and accomplish project goals in a cost effective, responsive, and responsible manner. These interests and goals are to produce and deliver the highest quality projects that are welcomed by all stakeholders, and are technically and environmentally sound, affordable and completed within the project schedule.

Below is a table depicting all of HDCA's active projects for Jefferson Parish:

Project Name	Stage
Price Brothers Force Main Assessments (Council Districts 1, 2, 3, & 4)	Assessment (Dormant)
Bayou Segnette DPS No. 1 Bridge & Climber Screen	Construction Completed
Avondale North Sewer Lift Station (F-10-1)	Design Phase (Dormant)
Brown Avenue Canal Improvements	Phase I: Completed Phase II: Construction Ongoing
Ehret & Broas Lift Station	Final Design Phase
Metairie Road Smart Growth - Causeway Interchange	Design Phase
N. Hullen Street Drainage Improvements	Construction Phase Services
Harvey Revitalization Study	Study Finalization, Community Presentations
Ames Blvd. Resurfacing (Construction Administration)	Construction Completed
Cousins Blvd. Extension (sub to Digital Engineering)	Construction Phase Services Only (Not Yet Started)
Avondale Library (sub to N-Y Associates)	Final Design Phase

HDCA personnel are adept at managing multiple projects in varying phases of design and construction at any given time. This is accomplished through clear communication of goals and expectations with our clients at every phase.

3. Location of the principal office where work will be performed.

HDCA has three offices located throughout Southeast Louisiana in Chalmette and New Orleans. Our corporate headquarters is located in nearby New Orleans at 1340 Poydras St. in the Orleans Tower. This proximity will allow our project managers and design team to be on-site quickly to any project assigned. We are also readily available to attend and assist with any meetings regarding the project, regardless of whether meetings are held at the project site or at a Jefferson Parish Government location.

We're a local firm and our roots are firmly planted in the area. Our staff members will be dedicated to providing the highest level of professional services to ensure the integrity of any project assigned.

4. Adversarial legal proceedings between the Parish and the person or firm performing professional services, in which the Parish prevailed or any ongoing adversarial legal proceedings between the Parish and the person or firm performing professional services excluding those instances or cases where the person or firm was added as an independent party, or where the person or firm participated in or assisted the public entity in prosecution of its claim.

HDCA, nor any firm personnel, have ever been involved in litigation with Jefferson Parish.

TEC Professional Services Questionnaire

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



Ongoing channel shaping and improvements to the New River Canal in Ascension Parish



Rehabilitated South Florissant Drainage Pump Station in St. Bernard Parish

5. Prior successful completion of projects of the type and nature of routine engineering services, as defined, for which firm has provided verifiable references.



Improved and rerouted roadside drainage in Tallulah, LA



Rehabilitated Lakefront Pump Station in St. Tammany Parish

Since the firm's founding in 2006, HDCA has participated in a wide variety of "wet" infrastructure projects in the civil engineering realms of drainage, water, and wastewater treatment and conveyance systems. These experiences have led to our firm developing a specialized expertise in this area. Our firm has successfully completed drainage infrastructure improvement projects from inception to modeling to construction. And our level of involvement in previous projects has included assessments, preliminary design, final design services, environmental permitting, bid phase services and construction phase services. At all phases, HDCA carefully considers the Owner's interests and operational preferences resulting in a highly customized design that will meet the needs of Jefferson Parish.

HDCA is familiar with pumping stations and conveyance system projects for wet infrastructure of all ages and size; and through this experience, our staff members have gained a thorough understanding of the nuances that accompany the physics of both large and small pumping stations. Generally, HDCA approaches the engineering design of any wet infrastructure project with a special emphasis placed on customizing the approach to suit the Owner's needs and preferences. Our design team's philosophy with any water-related infrastructure project is to incorporate sound hydraulic, mechanical, and electrical design principles along with operator preferences to design a long-lasting, easily-operated and maintained facility.

HDCA is also adept at assessing existing drainage systems and making recommendations for improvements as we've done for clients such as St. Tammany Parish and Ascension Parish. In 2018, HDCA prepared a comprehensive drainage study of a region prone to flooding in St. Tammany Parish. In addition to examining all existing data, HDCA provided St. Tammany with recommendations to improve conditions and provided hydraulic modeling of all conditions utilizing FLO-2D software.

HDCA has also been heavily involved with improving drainage conditions at the City of Slidell's City Barn Drainage Pump Station. HDCA personnel have provided professional services for numerous FEMA Hazard Mitigation Grant Program projects at Slidell's City Barn, all aimed at keeping the "Olde Town" area of Slidell dry during storm events. Projects HDCA staff members have participated in at the Slidell City Barn Drainage Pump Station have ranged from the installation of mechanical bar screen cleaners to clear debris from the waterway before reaching the pumps, to the design of diesel driven mixed flow pumps to increase the station's drainage capacity from 400 CFS to 640 CFS. HDCA has truly witnessed this project go from grant application and modeling, to permitting, design and now serving the Slidell community as a drainage asset.

HDCA staff members have also participated in a USACE project in Lafourche Parish aimed at improving protection from storm events and future hurricanes. HDCA's involvement included the evaluation of existing floodwalls, gate structures, and pumping stations to develop design alternatives to stabilize the hurricane protection system and elevate components.

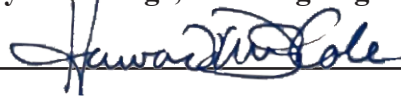
Through these broad experiences, as well as those depicted within this TEC Questionnaire, HDCA feels confident that our firm can successfully provide professional engineering services for any drainage project assigned.

TEC Professional Services Questionnaire

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed Project.	
<p>6. Size of firm.</p>	<p>HDCA is certified under the Small Entrepreneurship Program as a Hudson Initiative Certified Firm by the Louisiana Department of Economic Development. HDCA has sufficient engineering and administrative support personnel to provide comprehensive professional services to Jefferson Parish for the duration of the project.</p> <p>Minimum Requirements for Selection:</p> <ol style="list-style-type: none"> 1. One principal who is a professional engineer who shall be registered as such in Louisiana. <p style="margin-left: 40px;"><i>This requirement is met by Mr. H. Davis Cole, P.E., the principal engineer of HDCA.</i></p> 2. A professional in charge of the project who is a professional engineer who shall be registered as such in Louisiana with a minimum of five (5) years experience in the disciplines involved. <p style="margin-left: 40px;"><i>This requirement can be met by HDCA's principal engineer, Mr. H. Davis Cole, P.E. who will serve as the professional in charge of the project. Mr. Cole has been licensed as a professional engineer in the State of Louisiana since 2002 and drainage improvement projects have played an important role in his career.</i></p> 3. One person who is a professional engineer registered as such in Louisiana in the field or fields of expertise required for the project (A sub-consultant may meet the requirement only if the advertised project involves more than one discipline). <p style="margin-left: 40px;"><i>This requirement can be met by both of HDCA's professional civil engineers: Mr. H. Davis Cole, P.E. and Ms. Avis Gaines, P.E.. Both of whom are licensed professional engineers in the State of Louisiana and have more than a decade of experience working on drainage conveyance and stormwater pumping system projects.</i></p>
<p>7. Past Performance by person or firm on projects of or similar comparable size, scope and scale. Assertions of fault by a person or firm, which shall include time delays, cost overruns, and or design inadequacies in prior work completed for the Parish shall be evidenced by substantiating documentation provided by the Director of Public Works for the requesting department or the Director of Engineering and received by the Chairman of the Evaluation Committee a minimum of two (2) weeks prior to the scheduled date of the Technical Evaluation Committee meeting.</p>	<p>HDCA is proud of our relationship with Jefferson Parish, having served Jefferson Parish on a variety of infrastructure improvement projects over the course of the firm's existence. Individual personnel members have provided engineering services to the Parish prior to joining HDCA and we're dedicated to continuing to serve the Jefferson Parish community. As such, HDCA does not have a history of design inadequacies, time delays, nor cost overruns.</p> <p>HDCA's long-standing relationships with governmental agencies and clients is the key to our business' success. Please feel free to contact our major governmental and private clients, which include those listed below, regarding our past performance on engineering design and project management related projects. Additional references are available upon request.</p> <ul style="list-style-type: none"> • Donny Bourgeois, Recovery Manager, 504-278-1593, St. Bernard Parish Government, Louisiana • Mike Noto, Deputy Chief Administrative Officer, 985-646-4330, City of Slidell, Louisiana • Blaine Clancy, P.E., City Engineer, 985-646-4270, City of Slidell, Louisiana • Donna O'Dell, P.E., PhD, Asst. Director - Capital Projects, 985-2552, St. Tammany Parish Government, Louisiana

TEC Professional Services Questionnaire

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

Signature: 

Print Name: H. Davis Cole, P.E.

Title: Managing Member

Date: March 29, 2022



**Jefferson
Parish**
State of Louisiana



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

Name	Public Address
H. Davis Cole & Associates, LLC	1340 Poydras Street, Suite 1850 New Orleans, LA 70112

License/Certificate Information w/Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)	Supervisee(s)
EF. 003485	Active	05/30/2006	09/30/2022	Mr. Howard Davis Cole #PE.0030219-Active	

Small Entrepreneurship Certification - Hudson Initiative

Date: 3/29/2021

Certification ID: 5244

H. Davis Cole & Associates, LLC
1340 Poydras Street - Suite 1850
New Orleans , LA , 70112

Congratulations! Your business has been certified by the Louisiana Department of Economic Development in the Hudson Initiative.

The purposes and intent of this program are to provide the maximum opportunity for Louisiana-based small businesses to become certified under the Hudson Initiative in order to facilitate access to state procurement and public contracts; and to encourage business opportunities for Louisiana small businesses and entrepreneurs.

Annual online re-certification is a requirement to remain certified in this program. As a reminder, the LEDSmallBiz website will automatically send a notification, via email, one month prior to your business's annual re-certification date. Failure to report or failure to report on a timely basis will result in termination for non-compliance of your business's Small Entrepreneurship (Hudson) certification and loss of the benefits of the program.

Now that your business is certified in the Hudson Initiative, your business should register with state purchasing through the LaGov Supplier Portal (LaGov) in order to utilize this program to its fullest potential.

Thank you for participating in the Hudson Initiative. Together we will build a better economy for our state and a stronger business climate for your own success and future.

Stephanie R. Hartman

Director, Small Business Services



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

H. Davis Cole & Associates, LLC

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

This certification is valid from 3/29/2021 to 3/29/2022 .

Certification No. 5244

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

Stephanie Hartman,
Director, Entrepreneurial Services