7. Brief résumé of key persons, specialists, and individual consultants anticipated for this project.

a. Name & Title

Harold "Buster" C. Lyons, Jr., P.E.
Senior Project Engineer/Project Manager

b. Project Assignment

Project Manager/Engineering/Design Services

c. Name of firm with which associated

H. DAVIS COLE & ASSOCIATES, LLC

d. Years Experience

With this Firm.....3 (2008)
With other firms.....14 (1994)

e. Education (Degree/Year/Specialization)

Master of Business Administration, 2002, University of New Orleans
Bachelor of Science, 1993, Civil Engineering, Louisiana State University

f. Active Registration (Year First Registered/Discipline)

Registered Professional Engineer, Louisiana, No. 28223
Registered Professional Engineer, Mississippi, No. 17822
Registered Professional Engineer, Ohio, No. 71660

g. Other experience & qualifications relevant to the proposed project

Mr. Lyons has over 15 years of experience providing Program Management, Project Management, Project Design, and Environmental Planning and Permitting Services for the New Orleans, Louisiana area. Services have been provided for a variety of project types including Roadways/Transportation Facilities; Water/Sewerage Facilities; Stormwater/Drainage Facilities; Environmental Planning/Permitting Documentation Preparation, and; Recreational Parks & Complexes/Bicycle/Pedestrian Facilities. Mr. Lyons has been involved in a variety of sewer projects and assessments; projects have included sewer force mains, gravity lines, lift stations, and wetlands assimilation projects.

ROADWAYS / TRANSPORTATION FACILITIES

FHWA / LADOTD Submerged Roads PMC, South Louisiana (5 Parishes). Served as deputy program manager during the initial stages of the South Louisiana Submerged Roads Program. Major phases and associated tasks for the comprehensive program included Program Administration and Coordination Phase including overall program administration, development of program management and other manuals, and overall program level coordination with multiple agencies, utilities and subconsultants; Program Controls Phase including internal accounting, contract administration, and scheduling system activities; Pre-Construction Phase including administrative and activity scheduling, field services, development and review of damage inspection reports, environmental approval process tasks, development of a design manual, design phase coordination and input with multiple designers, project scheduling, design/bid documentation review activities and bid proposal tasks; Construction Management Phase including construction management services, contractor coordination, claims, and utility conflicts and coordination activities; and Public Information & Outreach Program Phase including community outreach and coordination, public involvement meetings, publicity programs, mobile field office, and information and presentation development activities.

Program Management Services for FEMA-Funded Canal Crossing Repairs, St. Bernard Parish, Louisiana. HDCA personnel are serving as Program Managers for the Parish-wide repair of Katrina-damaged canal crossings throughout St. Bernard Parish. Projects include repairs to over 50 canal crossings and include feasibility and eligibility determinations of the conversion from culverts to bridges. Preliminary construction cost estimates range from $1 M to $5 M.

Magazine Streetscape, National World War II Museum, New Orleans, Louisiana. Assisted in the design and plan preparation for the Magazine Streetscape project adjacent to the future National WWII Museum in the City of New Orleans along Magazine Street from St. Joseph Street to Calliope Street. Project consisted of the general civil design for roadway improvements, landscaping, hardscaping, and utility relocation.

City of Mandeville Street Repair Projects (annually from 1993 to 2005). The program included design and overseeing various projects including the pulverization, cement stabilization, and/or repaving of selected streets; minor and major drainage improvements including urban type (subsurface) and rural type (open ditch); and the relocation of existing water and sewer mains.

Hyman Drive Roadway/Drainage, New Orleans, Louisiana. Assisted with the design and plan preparation for the Hyman Drive roadway/drainage project in the City of New Orleans. The project consisted of upgrading the drainage system along Hyman Drive and Adolph Street from Morris Place to Public Belt Railroad Ditch in accordance with the 7th Ward Master Plan and associated roadway replacement.

Hampson Street (Carrollton-Broadway), New Orleans, Louisiana. Assisted with the design and plan preparation for the Hampson Street (Carrollton-Broadway) project in the City of New Orleans. The project included the replacement of approximately 2,372 lf of roadway. Other tasks included the design of the associated drainage, sewer and water line improvements.

US Highway 190 – Fremeaux Road (DOTD), Slidell, Louisiana. Assisted with the design and plan preparation per DOTD criteria (metric) for 4,200 lf of concrete roadway for US 190 Highway in Slidell between Broadmore Avenue and the I-10 frontage roads. Design included highway roadway superelevation, pavement design and major and minor drainage systems. The roadway was widened from an existing two-lane roadway to a five-lanes urban section consisting of four travel lanes and a two-way left turn lane for 2,500 lf and a four-lane divided roadway for

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7. Brief résumé of key persons, specialists, and individual consultants anticipated for this project.

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1,700 lf. Also included required drainage maps for both urban and rural sections of the project. A roadway design program, "Roadcalc", was utilized to determine a design road alignment.

US Highway 190 – Junction 433-US 11 (DOTD), Slidell, Louisiana. Assisted with the design and plan preparation per DOTD criteria for a four mile road project near Slidell. The project included converting an existing two-lane roadway to a four-lane rural section for one mile and a five-lane urban section for three miles. Tasks included an alignment study, widening the existing roadway, minor and major intersections, two 180-foot long slab span bridges, and design of a subsurface drainage system to tie into the existing drainage system. Also included required drainage maps for both urban and rural sections of the project. A roadway design program, "Roadcalc", was utilized to determine a design road alignment.

Esplanade Avenue/Galvez Street, New Orleans, Louisiana. Assisted with the design and plan preparation for the Esplanade Avenue/Galvez Street project in the City of New Orleans. The project included the replacement of approximately 7,657 lf of roadway. Other tasks involved the design of the associated drainage, sewer and water line improvements.

Seventh Street Resurfacing Project, City of Slidell, Louisiana. HDCA was selected to provide engineering services for the resurfacing of Seventh Street from Gause Boulevard to Fremaux Avenue. Services include preparation of budgetary analysis for various resurfacing alternatives and preparation of plans and specifications for the selected option. HDCA has provided technical support for funding negotiations and will also provide services related to drainage improvements.

City of Mandeville Bicycle and Pedestrian Pathways, Mandeville, Louisiana. Assisted with the design and plan preparation for the Mandeville Bicycle and Pedestrian Pathways. The projected consisted of designing 6,000 LF of concrete sidewalks, 7,000 LF of 10 foot wide asphalt bike path for the City of Mandeville and elevated timber pathways. This project was funded through the DOTD Transportation Enhancement Program.

New River Trail, Gonzales, Louisiana. Responsible for the design and plan preparation for the of a 10 foot wide asphaltic concrete bicycle/pedestrian path along the New River from LA Highway 44 (Burnside Road) to the Gonzales City limits.

Lafitte Bicycle/Pedestrian Path, Town of Jean Lafitte, Louisiana. Responsible for the design and plan preparation for approximately 17,000 lf of a 10 foot wide asphaltic concrete bicycle/pedestrian path along LA Highway 45.

Tammany Trace Pedestrian Tunnel, St. Tammany Parish / City of Mandeville, Louisiana. Assisted in the design and plan preparation of a concrete bicycle/pedestrian tunnel under Highway 190 in the City of Mandeville. Design included a concrete con-span tunnel, concrete wing wall approach ramps, waterproof treatment, major drainage crossings, and detour road.

SITE DESIGN

Alario Center, Jefferson Parish, Louisiana. Responsible for coordination and design of various components of the Alario Center site in Jefferson Parish including a multi-phase gymnasium and baseball complex. Tasks included overseeing and designing the infrastructure for the site including drainage, waterlines, sewer mains, a sewer lift station, roadways, parking lots, and other associated components.

Sports Complex-Stable Drive, Jefferson Parish, Louisiana. Assisted with the design and plan preparation for the Sports Complex-Stable Drive project in Jefferson Parish. The project included improving and extending the existing access roadway between Hickory/Dickory Avenue to the proposed West Access Road via the Old Hickory Avenue and Stable Drive. Other improvements involved a right turn lane from south bound Hickory Avenue onto Old Hickory Avenue, a right turn lane from north bound Old Hickory Avenue onto Dickory Avenue, the rehabilitation of 600 feet of the Old Hickory Avenue, the rehabilitation of 800 feet of Stable Drive, the overlay of 500 feet of Stable Drive, the extension of 350 feet of Stable Drive and West Access Road from Stable Drive to West Loop Road.

Recreational Parks & Complexes/Bicycle/Pedestrian Facilities, LaSalle Tract Sports Complex, Jefferson Parish, Louisiana. Coordinated and designed the development of the various components of the LaSalle Tract Sports Complex in Jefferson Parish. Project included developments of the overall park site including jogging paths, softball and soccer fields, a concession stand / press box, and other amenities; New Orleans Zephyr's Stadium site including drainage, waterlines, sewer mains, a sewer lift station, roadways, parking lots, and other associated components; and the New Orleans Saints Training Facility including drainage, waterlines, sewer mains, roadways, and parking lot. Also required was the necessary coordination with Jefferson Parish officials, the Superdome Commission, various consultants, and various utility companies.

Bayou Segnette Commercial Harbor, Jefferson Parish, Louisiana. Assisted with the design and plan preparation for the infrastructure and utilities for Bayou Segnette Commercial Harbor. Associated infrastructure items included a concrete boat launch/ramp, timber dock and walkway, access roadway and parking area, and service area containing service crane and fueling station and utilities included a water system to supply potable water and fire protection including mains, fire hydrants and associated appurtenances, a sanitary sewerage system including mains, grinder pump and associated appurtenances for harbor master residence and public restroom facilities, and site drainage system including culverts and inlets.

Naval Research Park Site Design, Plan Preparation and Traffic Study, New Orleans, Louisiana. Responsible for assisting in the site design, plan preparation and traffic study for the naval research park on the old Pontchartrain Beach site now owned and operated by the University of New Orleans and managed by the Office of Facility Planning and Control. Associated infrastructure items included access roadways, parking facilities, drainage system, water system to supply potable water and fire protection, sanitary sewer system, lighting system, landscaping and other associated components and amenities.

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7. Brief résumé of key persons, specialists, and individual consultants anticipated for this project.

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City of Mandeville Fishing Pier, Mandeville, Louisiana. Responsible for overseeing the design and plan preparation for the infrastructure and utilities required for a timber fishing pier and walkways over Lake Pontchartrain in the City of Mandeville. Additional associated infrastructure items included an asphaltic access roadway and parking area, and pavilion and utilities included a water system to supply potable water including mains, hose bibs for the pier and associated appurtenances and site drainage system including culverts and inlets.

WATER SUPPLY, TREATMENT AND DISTRIBUTION

Water System Projects (Various), St. Tammany Parish / City of Mandeville, Louisiana. Responsible for the coordination of ongoing separate water projects including distribution lines, an elevated tank, water wells, telemetry control system, fire hydrant replacement, and other water related projects designed by other consultants for the City of Mandeville. The individual projects serve as the primary water distribution system for the City and instrumental to the viability of the overall distribution system.

University of New Orleans Research Park Waterline, New Orleans, Louisiana. Responsible for the design and plan preparation for the installation of new water distribution main and the necessary appurtenances required to achieve the required water pressure needed to meet the fire flow and potable water demands for the research park development.

City of Mandeville Water Distribution System, Mandeville, Louisiana. Responsible for the program management of a multi-phase water distribution improvement program for the City of Mandeville. The comprehensive study addressed the current and long-term needs of the water distribution system. A water model of the system was developed to assist in the analysis and identify the needed improvements. The model is updated on a regular basis and used to verify actual field results and to determine future needed improvements. The overall program also involved the preparation of a report for Council and City review.

Water Distribution System Model, City of Mandeville, Louisiana. Responsible for updating and overseeing the water distribution system model for the City of Mandeville. The work includes periodically analyzing the water distribution system including an elevated tank, water wells, pump capacities, fire flow and potable water demands, and distribution system.

City of Mandeville Water Wells No. 6 & 7, Mandeville, Louisiana. Responsible for overseeing the design and plan preparation for two new water wells in the City of Mandeville. The project included the drilling of two underground wells each capable of supplying between 1,600 and 2,300 gallons per minute of water and the required suitable facilities to enclose the wells.

Fire Hydrant Upgrade, City of Mandeville, Louisiana. City of Mandeville / Responsible for the design and plan preparation for the upgrade of deficient fire hydrants in the City of Mandeville as identified by the appropriate State agencies. The project consisted of analyzing the fire demand/ flow at existing hydrants using a computer based water model and field tests and replacing the substandard hydrants.

WASTEWATER COLLECTION AND TREATMENT

LaSalle Park Sports Complex Sewer and Water Improvements, Jefferson Parish, Louisiana. Mr. Lyons assisted in the design and plan preparation for various utility projects for the development of the LaSalle Park Sports Complex in Jefferson Parish. Projects included the construction of an approximately 6,900 lf of water mains, 11,700 lf of sewer force mains, 1,600 lf of sewer gravity mains, a duplex lift station with prime centrifugal pumps, a triplex lift station with vertical centrifugal pumps and the modification of an existing duplex lift station.

Algiers Collection System Evaluation Study, Sewerage and Water Board of New Orleans, Louisiana. Assisted, as a partner with Brown and Caldwell, in the data management and field investigation supervision services for New Orleans Sewerage and Water Board Algiers Collection System Evaluation Study project on the west bank of the Mississippi River. Primary project tasks included the performance of independent evaluations of each basin to identify structural defects and infiltration/inflow sources, coordination of the associated field activities, providing support services to insure that the field activities were conducted in accordance with the S&WB CSES standards, reviewing forms containing the obtained field data for accuracy and completeness, and entering the data into the City database.

Lake Windward Inflow and Infiltration Reduction Project, Fulton County, Georgia. Assisted, as a partner with Southeast Pipe Survey, Inc., in providing design/build services for the Lake Windward Inflow and Infiltration Reduction Project for Fulton County, Georgia. Tasks included analysis of the field investigation data, reviewing CCTV inspection results to identify potential I/I locations, analyzing collected flow monitor data, selecting locations for new temporary and permanent flow monitors for the collection of data, and developing work orders for recommended system repairs.

Fremaux Road Utility Relocation (US 190 Business), St. Tammany Parish, Louisiana. Assisted in the design and plan preparation for the relocation of utilities, including sewer force mains and water lines. Relocation of the existing utilities was designed in anticipation of the DOTD widening project of Fremeaux Road in St. Tammany Parish.

North Causeway Sewerage Improvement Project, St. Tammany, Louisiana. Responsible for the design and plan preparation for needed sewer improvements along North Causeway Boulevard. Included a new centralized lift station, gravity collection system, and force mains.

Morrison Road Sewage Force Main Construction Phase Engineering, New Orleans, Louisiana. Project Engineer for construction phase engineering support for replacement of the Morrison Road Sewerage Force Main. Project included the evaluation of 5.2 miles of force main ranging in size from 24" in diameter to 42" in diameter. An evaluation report was developed and recommendations were provided for the rehabilitation and placement of deteriorating sections of the pipe line.

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7. Brief résumé of key persons, specialists, and individual consultants anticipated for this project.

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Town of Jean Lafitte Sewerage Program, Lafitte, Louisiana. Assisted in the design and plan preparation for various sewerage projects in the Town of Jean Lafitte. The overall program included the development of a facility plan for the Lafitte area south of the Wagner Bridge. Projects included various collection and treatment facilities throughout the program area. Design consisted of calculating flows and sizing lift stations, force mains and gravity lines. Other tasks involved coordinating the right-of-way and construction acquisition requirements.

Sewer Lift Station & Collection System, City of Mandeville, Louisiana. Responsible for overseeing the rehabilitation of existing sewer lift stations and collection system throughout the City of Mandeville. Tasks include analyzing wet wells, pump capacities, associated telemetry system, and overall collection system to determine necessary repairs and/or upgrades.

HAZARD MITIGATION GRANT PROGRAMS AND FEMA HURRICANE RECOVERY AND RESTORATION PROJECTS

Hurricane Recovery Administrative and Program Management, St. Bernard Parish, Louisiana. Mr. Lyons is serving as a Program Manager and is currently providing administrative and technical services for FEMA-and EDA-funded projects in St. Bernard Parish. While serving as a program manager, Mr. Lyons has been involved in a wide-ranging array of projects including rehabilitation and restoration of parish-wide submerged roads ($100 M), renovation of the Parish Civic Center, restoration of street signs, and restoration of street lights. Mr. Lyons was also initially responsible for the reconstruction of the Parish animal shelter and rehabilitation of Parish-wide canal crossings. Mr. Lyons' duties also included coordination with FEMA, FHWA, and State agency hurricane recovery officials, scope alignment reviews of FEMA project worksheets, identification and determination of potentially uncaptured damages, oversight, preparation, and packaging of documentation for Project Worksheet versions, and development and implementation of hazard mitigation proposals for review and approval by FEMA.

FEMA Hurricane Damage Assessment / Inspection, St. Bernard Parish, Louisiana. Selected by the Parish to serve as one of the first responders to assist in the life safety assessments and damage inspections following Hurricanes Gustav and Ike in St. Bernard Parish, Louisiana. Potentially damaged structures, infrastructure, and facilities were identified and the associated rehabilitation costs estimated.

St. Bernard Parish Civic Center Renovation Program Management, Chalmette, St. Bernard Parish, Louisiana. The St. Bernard Civic Center is located at the intersection of West Judge Perez and Jean Lafitte, adjacent to the Parish Government complex. The Civic Center is comprised of two separated components, a full-service auditorium and ballroom. An accelerated, fast-tracked construction schedule was used to achieve the desired construction time frame of approximately 200 days and the renovation cost managed to meet the budgetary constraints. Prior to the civic center renovation project, the services of several other contractors were secured to perform required environmental, selective demolition, and miscellaneous work items. The services of these contractors were secured through purchase orders, letter bids, and/or construction contracts.

New Orleans Sewerage and Water Board Force Main Assessment, New Orleans, Louisiana. Responsible for the coordination and management of an assessment / evaluation project for sewer main systems owned and operated by the New Orleans Sewerage and Water Board as part of the Parish immediate post-hurricane recovery program. The wastewater force main system consisted of approximately 80 miles of pipeline ranging in size from 24" to 72" in diameter. Project work included a physical investigation of force main right-of-way, valves and access manholes; development of recommendations for additional internal investigation and line conditions; preparation of a damage assessment report to summarize the findings resulting from the physical and/or CCTV inspections performed; and the development of recommendations for additional internal investigations and the required rehabilitation of the damaged mains.

FEMA Project Redhouse, New Orleans, Louisiana. Assisted in the structural assessments performed on structures damaged in the Parish of New Orleans following the aftermath of Hurricane Katrina. The tasks also included the performance of field safety inspections and structural adequacy analyses of local bridges in other area municipalities.

FEMA Assistance Centers, Louisiana. Provided program management and engineering support for the performance of site assessments and permitting processes for the establishment of FEMA housing assistance centers throughout the State of Louisiana. Site assessment tasks included reviewing unoccupied facilities for life safety issues and ADA compliance. Reports were provided to summarize comments on issues discovered and make recommendations on needed modifications based on the architectural assessment. Other tasks included the preparation of the necessary plans and permit applications in accordance with federal, state, and local codes and reviewing agency guidelines to obtain Certificates of Occupancy.

FEMA Transitional Housing Sites and Facilities Project, Louisiana (Statewide). Provided engineering and project management services in support of the FEMA Housing Program in response to the Hurricane Katrina disaster to provide "temporary or transient" housing facilities for the displaced persons. Managed a team of environmental specialists, construction management personnel and architects/engineers to assist in the effort to assess locations and design temporary housing facilities for people displaced as a result of the hurricane. Other duties included overseeing the site design and contractor evaluation and selection process, development of an evaluation and design process to provide temporary communities to provide basic living accommodations consistent with temporary housing standards in the most expeditious means possible, and analyzing and reviewing bid proposals and site design submittals (engineering plans and technical specifications) for compliance with all governmental normal codes and permit requirements.

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7. Brief résumé of key persons, specialists, and individual consultants anticipated for this project.

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continued

STORMWATER / DRAINAGE FACILITIES

City of Mandeville Interior Master Drainage Plan, Mandeville, Louisiana. Responsible for the program management of a City-wide drainage improvement program for the City of Mandeville. The comprehensive study included preparation of a comprehensive drainage plan/ report and the association drainage design. Design aspects involved utilized the Rational Method for the required stormwater runoff flows for both major outfalls and minor drainage roadway systems throughout the City. Resulting projects included drainage improvements from as small as 12-inch drainage culverts to large Con-span structures. The resulting report and studies are utilized by the City to assist in verifying other proposed drainage improvements for upcoming developments in the City.

Drainage Projects (Various), Southeastern Louisiana. Responsible for the design and plan preparation for several major drainage projects including highway and railroad jack and bore projects; drainage canal outfalls including slope paving, wing walls, and erosion control measures; and drainage canals including earthen, "U"- channel, box culverts, sheeting, etc. sections throughout the Town of Jean Lafitte, City of Mandeville, St. Tammany Parish, Jefferson Parish, and St. Charles Parish. Projects included borings under US Highway 190, Earhart Boulevard, LA Highway 45, US Highway 51 (Airline) and several railroads and required drainage improvements to several major canals including Hoey, Fleming, Gardere, Weyerauch, Heebe, Whitney and Soniat.

ENVIRONMENTAL

City of Mandeville Aquatic Ecosystem / Wetlands Assimilation, Mandeville, Louisiana. Assisted with the coordination and design for the preparation of the bid documents for the City of Mandeville Aquatic Ecosystem / Wetland Assimilation project. Project consisted of upgrading the existing wastewater treatment plant and the construction of the discharge structure and piping system for wetland assimilation of the discharged wastewater effluent. The unique biological wastewater treatment system and wetland assimilation process was designed in order to impede saltwater intrusion and inhibit coastal erosion. 2.5 miles of force main was constructed to disburse treated effluent into 1.7 square miles of uninhabited wetland adjacent to the western border of the City of Mandeville.