NOTICE OF SHORELINE TASK FORCE SPECIAL MEETING
CITY OF SOUTH PADRE ISLAND

TUESDAY, NOVEMBER 30, 2021

3:00 PM AT THE MUNICIPAL BUILDING,
CITY COUNCIL CHAMBERS, 2ND FLOOR
4601 PADRE BOULEVARD, SOUTH PADRE ISLAND, TEXAS

1. Call to Order

2. Pledge of Allegiance

3. Public Comments and Announcements

4. Regular Agenda

   4.1. Discussion and action to recommend to City Council one of the statement of qualifications received for the Texas Parks and Wildlife Department's Boating Access grant. (Hughston, Boburka)

5. Adjourn

NOTE: One or more members of the City of South Padre Island City Council may attend this meeting; if so, this statement satisfies the requirements of the OPEN MEETINGS ACT.

DATED NOVEMBER 24, 2021

Angelique Soto, City Secretary

I, THE UNDERSIGNED AUTHORITY, DO HEREBY CERTIFY THAT THE ABOVE NOTICE OF MEETING OF THE SHORELINE TASK FORCE OF THE CITY OF SOUTH PADRE ISLAND, TEXAS IS A TRUE AND CORRECT COPY OF SAID NOTICE AND THAT I POSTED A TRUE AND CORRECT COPY OF SAID NOTICE ON THE BULLETIN BOARD AT CITY HALL/MUNICIPAL BUILDING ON **NOVEMBER 24, 2021**, AT/OR BEFORE 3:00 PM AND REMAINED SO POSTED CONTINUOUSLY FOR AT LEAST 72 HOURS PRECEDING THE SCHEDULED TIME OF SAID MEETING.

Angelique Soto, City Secretary

THIS FACILITY IS WHEELCHAIR ACCESSIBLE, AND ACCESSIBLE PARKING SPACES ARE AVAILABLE. REQUESTS FOR ACCOMMODATIONS OR INTERPRETIVE SERVICES MUST BE MADE 48 HOURS PRIOR TO THIS MEETING. PLEASE CONTACT BUILDING OFFICIAL, GEORGE MARTINEZ AT (956)761-8103.

CITY OF SOUTH PADRE ISLAND

Agenda: NOVEMBER 30, 2021

CITY OF SOUTH PADRE ISLAND
SHORELINE TASK FORCE
AGENDA REQUEST FORM

MEETING DATE: November 30, 2021

NAME & TITLE: Kristina Boburka, Shoreline Director

DEPARTMENT: Shoreline Department

ITEM
Discussion and action to recommend to City Council one of the statement of qualifications received for the Texas Parks and Wildlife Department's Boating Access grant. (Hughston, Boburka)

ITEM BACKGROUND
The City was awarded funding through the Texas Parks and Wildlife Department's Boating Access grant to perform engineering and permitting services for the boat ramp that will be constructed at Marisol Street. The City went out statement of qualifications for engineering services and received one from LJA Engineering. Their SOQ is attached in the packet.

BUDGET/FINANCIAL SUMMARY
Funding is through the Texas Parks and Wildlife Department's Boating Access grant.

TPWD Funds: $140,625
Matching Funds: $46,875

COMPREHENSIVE PLAN GOAL
Chapter III. Parks and Resources
GOAL 1: The City shall ensure protection and conservation of natural resources, such as beaches, dunes, wetlands, Laguna Madre waterfront and native flora and fauna, allowing for their sustainable use and enjoyment by future generations.
Objective 1.1 Beach and dunes shall be protected from both natural and artificial erosion.

LEGAL REVIEW
Sent to Legal:
Approved by Legal:

RECOMMENDATIONS/COMMENTS:

CITY OF SOUTH PADRE ISLAND

Marisol Boating Access Engineering & Permitting Services

RFQ #2021-SL05

Original

November 24, 2021

LJA ENGINEERING

LJA ENGINEERING

5350 S Staples Street, Suite 425, Corpus Christi, Texas 78411
t 361.991.8550 f 361.993.7569 LJA.com TBPE F-1386 TBPLS 10104001

POINT-OF-CONTACT

Jay Gardner
Assistant Project Manager
361.360.2138
jgardner@lja.com

November 24, 2021

City of South Padre Island
City Secretary
4601 Padre Blvd
South Padre Island, Texas 78579

Re: RFQ 2021-SL05 Marisol Boating Access Engineering and Permitting Services

Dear Members of the Selection Committee,

At LJA Engineering, Inc. (LJA), ***we seek solutions.*** Our depth of services is comprehensive, our breadth of knowledge leads the industry, and our regional influence continues to positively impact our personal and professional communities. It is for these reasons that LJA is asking for the City's favorable consideration on the Marisol Boating Access Engineering and Permitting Services project. Boasting over 1,300 employee-owners, we offer full-service planning, engineering, surveying, and construction management that will fit the City's needs.

PROJECT UNDERSTANDING »

LJA understands that the City seeks a team of professionals that are well versed and qualified in the permitting, planning, and design of recreational facilities, specifically those facilities that provide water access for boating. LJA has completed projects of this scope and nature recently, including a boat ramp rehabilitation project for Kleberg County at Kaufer-Hubert Park, and also for the BoatStop, a private developer group in Corpus Christi. In addition, we are working with UT Marine Science Institute on replacing their research pier, other private developers on smaller marinas around the JFK Causeway, and another large development on Tiki Island. Our services will – at a minimum – meet the requirements set forth by the Scope of Services listed in this RFQ, as well as the standards required by the Texas Board of Professional Engineers. Alongside our in-house services, we are teaming with Omega Divers, LLC (Omega) and Rock Engineering and Testing Labratory, Inc. (RETL) for diving and geotechnical services support to ensure that the Scope of Services is fully met.

OUR COMMITMENT »

On the following pages, you will find evidence that we are the most qualified engineering firm for this project. Additionally, our proposed team showcases staff with experience and qualifications in line with the needs of this project. LJA looks forward to working with the City and delivering a project that is high quality, on time, and within budget. If any questions or concerns arise, please feel free to contact us any time. I will be your designated point-of-contact and my contact information is listed above.

We are here to serve.

Sincerely,

Jay Gardner

Jay Gardner
Assistant Project Manager

TABLE OF CONTENTS

LJA ENGINEERING

Pleasure Island Shoreline Breakwater and Marsh Design
Jefferson County, TX

A FIRM INTRODUCTION

A » FIRM INTRODUCTION

We seek solutions.

LJA was established to be the premier engineering firm across the Southeastern US by providing high quality, innovative, and cost-effective services to our clients. From the beginning, the firm stood out by recognizing the importance of quality engineering solutions amid a culture of visionary leadership and collaborative delivery. Our reputation is built upon a 49-year legacy of mutual trust – among our staff and our clients – driving our commitment to deliver the best solutions to complex building and business challenges.

Founded in 1972 when John "Dutch" Lichliter established The Lichliter Company, Bill Jameson joined the firm in 1976 as president and the firm was renamed Lichliter/Jameson & Associates. The firm evolved into LJA Engineering, Inc. in 2011, as it is known today. At LJA, we continue to build upon our reputation, while broadening our knowledge and constantly striving to be better.

To us, there is no measure that matters more than our own drive to exceed the firm we were yesterday. And, to our clients, this is what they value most and have come to expect. Our history defines us, but in no way limits us. We are proud of landmark projects from our past and look forward to blazing a new path and setting the new standard. The best companies are about great people — and great people, working together, make great projects.

With over 1,300 employees in 43 offices across Texas, Tennessee, Oklahoma, Florida, and Georgia, we are organized around nine comprehensive sectors:

- » Public Infrastructure
- » Land Development
- » Energy Services
- » Environmental & Coastal
- » Surveying
- » Rail Services
- » Water Resources
- » Construction Engineering & Inspection
- » Transportation

49
YEARS IN BUSINESS

1,300
EMPLOYEE OWNERS

9
SECTORS

43
OFFICES

CORE MANAGEMENT	
Jeff Coym, PE	**PRINCIPAL-IN-CHARGE**
Doug Dusini, PE	**PROJECT MANAGER**
Jay Gardner	**ASSISTANT PROJECT MANAGER**

COMPREHENSIVE SERVICES

COASTAL

- Boating Access
- Revetments
- Breakwaters
- Bulkheads
- Dredging
- Wharf Restoration
- Beach Nourishment
- Dune Restoration
- Marsh Restoration
- Erosion Response Plans
- Capital Improvement Plans
- Basis of Design Studies
- Effects of Ship Wakes: Numerical Model
- Storm Damage Assessment
- Shoreline Change Monitoring
- Circulation and Water Quality Modeling
- Field Data Collection

ENVIRONMENTAL

- NEPA Environmental Assessments
- Wetland Delineations
- Wetland Mitigation
- Cultural Resources (Historic and Pre-Historic)
- Threatened and Endangered Species Geology
- Phase I Environmental Site Assessments
- Phase II Environmental Site Assessments
- State and Federal Permitting Coordination
- Regulatory Coordination
  - U.S. Army Corps of Engineers
  - Texas General Land Office
  - Texas Commission on Environmental Quality
  - Other State and Federal Jurisdictions
  - US Fish and Wildlife Service
  - Texas Historical Commission

CONSTRUCTION MANAGEMENT

- Safety Management and Oversight
- Surveying
- Constructability
- Schedules
- Change Management
- Construction Estimates
- Construction Inspection
- Minimize Train Traffic Interruptions
- Strict Budget Maintenance
- Maintain Clean Audit Trail
- Funds Reallocation

MIDSTREAM

- Engineering/Design of Storage and Distribution Terminals
- Pipeline Design
  - Transmission
  - Gathering
  - IBL
- Foundation Design
  - Vertical Pile Design
  - Lateral Pile Design
  - Structural Slabs
  - Ring Walls
  - Finite Element Analysis
- Structures
  - Steel, Concrete and Timber
  - Frames
  - Bridges
  - Docks
- Retaining Structures
  - Bulkheads, Cofferdams, and Walls
- Mechanical Design
  - Piping and Instrumentation
  - Piping Plans and Isometrics
  - Rotating Equipment (API and ANSI)
  - Static Equipment (ASME, API, TEMA)
  - Stress Analysis (Piping and Equipment)
- Tank Design and Construction Support
- Rigging Design
  - Crane Installation Design
  - Temporary Structures
- Project Scheduling
- Procurement Assistance

SURVEYING

- Oil and Gas Well Stakeouts
- Pipeline Route Surveys
- Pipeline Route and As-Built Surveys
- Boundary Surveys
  - Plat of Surveys
  - Legal Descriptions for Deed Records
  - Easement Descriptions and Exhibits
  - Subdivision of Land and Platting
- Design and Topographic Surveys
  - Digital Contouring
  - Digital Planimetrics
  - Facility and Utility Locations
  - Detailed As-Built Drawings
- Horizontal and Vertical Control for Aerial Mapping
- Construction Staking
  - Subdivisions
  - Streets and Highways
  - Utilities
  - Buildings
- ROW Maps and Surveys
- Geodetic Control Surveys
- Land Title Research

LAND DEVELOPMENT

- Discovery Program Tract Analysis
- Property Evaluations
- Condition Assessments
- Feasibility Analysis
- Water Treatment and Distribution
- Wastewater Collection and Treatment
- Hydrology and Hydraulics
- Dry Utility Coordination
- Bond Applications
- Storm Water Management
- Erosion Controls
- Sedimentation Controls
- Roadway Design
- Traffic Engineering
- Construction Administration
- Platting
- Special Financing District

URBAN PLANNING AND LANDSCAPE ARCHITECTURE

- Master Planning
- Feasibility Studies
- Community and Town Planning
- Construction Management
- Design and Construction Observation
- Urban Renewal and Revitalization
- Retail and Mixed-Use Design
- Land Use Planning and Approvals
- Livable Communities
- Urban, Leisure, Neighborhood
- Irrigation Design
- Streetscape and Hardscape Design
- Greenways, Trails, and Open Space
- Parks, Amenity and Recreation Design
- Site Design and Analysis

PUBLIC WORKS AND INFRASTRUCTURE

- Design and Rehab of Water and WWTP
- Site Work, Utilities
- Drainage Design
- Flood Control Studies
- SWPPP
- Feasibility Studies and Design Reports
- Vulnerability Assessments
- Permit and Grant Applications
- Emergency Response Plans
- Construction Management

SITE DEVELOPMENT

- Feasibility Studies
- Conceptual Grading Utility Analysis
- Site Civil Design
- Surveys - ALTA Surveys
- Infrastructure Design and Cost Estimates

- Constraint Evaluation
- Commercial Plats
- Utility Design and Coordination
- Public Involvement
- Retail, Mixed-Use, Multifamily, Commercial, Business, Industrial Park and Warehouse, Offices, Medical Facilities
- K–12 and Higher Education Universities
- Parks, Sports Stadiums, Arenas
- Jails
- Government Facilities, Embassies

GEOGRAPHIC INFORMATION SYSTEMS

- Discovery
- Economic Development
- Utility Mapping and Utility Management
- Data Collection
- District GIS Projects and Operations
- Specialty Mapping, Exhibits
- GIS Web Application Development
- Thematic Mapping, 3-D Spatial Modeling
- Project Management and Development

TRANSPORTATION

- Traffic Impact Analysis Studies
- Major Event Traffic Management Planning
- School Impact Analysis Studies
- Thoroughfare Planning
- Corridor and Route Studies
- Schematic Design
- Feasibility Studies
- Data Collection and Mapping
- Traffic Engineering Studies
- Traffic Signal Timing and Design
- Intelligent Transportation Systems
- Pedestrian Facilities Planning
- Signing and Pavement Markings
- Parking and Circulation Studies
- Major TxDOT Project Experience
- Bridge Layouts
  - Bridge Design
  - Hydrology and Hydraulics
  - Construction Sequencing
  - Utility Relocations
  - Retaining Walls

SUBSURFACE UTILITY ENGINEERING (SUE) ONE-CALL AND UTILITY RESEARCH

- ROW Permitting
- Electronic Pipeline Locating
- Traffic Control
- Exposure by Hydro Excavation
- Precise Horizontal and Vertical Utility Location
- Detention Basins
- Stormwater Pumping Stations
- Levees and Dams
- Stormwater Quality Facilities
- Water Amenities
- Field Data Collection
- Streamflow Measuring
- Stormwater Quality Investigations
- Water Quality Sampling
- NPDES Permits
- Bridge Scour Analysis
- FEMA Submittals

RAIL

- Operations
  - Rail Car Movement Optimization
  - Classification Yard Efficiency
  - Rail Computer Modeling
  - SIT Yard Planning
  - Operating, Track and Mechanical Compatibility Studies
- Design Engineering
  - Track Geometry
  - Bridges
  - Facilities
  - Yards
  - Automotive Translocal
  - Intermodal
  - Bulk Transfer
  - Capacity Improvements
  - Signal Support
- Safety Management and Oversight
- Surveying
- Constructability
- Schedules
- Change Management
- Construction Estimates
- Construction Inspection
- Minimize Train Traffic Interruptions
- Strict Budget Maintenance
- Maintain Clean Audit Trail
- Funds Reallocation

ELECTRICAL

- Site Plan
- Equipment Layout
- Electrical One Line Drawings
- Building Electrical Plans, Elevations, Sections, and Details
- Electrical Load Calculations
- Major Equipment Specifications and Data Sheets
- Instrument Data Sheets
- Bulk/Commodity Materials Lists
- Conduit Fill Calculations
- Power System Studies
- Power Quality Analysis
- Power Factor Correction Capacitors and Load Banks
- Transformer Sizing
- Security Systems - Electrical
- UPS Sizing - HD Acceptance
- Electrical Ladder Logic Diagrams
- Conduit Layout
- Electrical Details
- Panel Layout Outlines
- Building Lighting Schematics/ Drawings
- Street/Parking Lot Lighting Schematics/Drawings
- Landscape Lighting
- Control Schematics
- Equipment and Instrument Listing
- Hazardous Area Classification
- Grounding Plot Plan
- Conduit Schedule Sheets
- Electrical Interconnect Diagrams
- Completed Material Listing of Bulk Items
- Equipment and Instrumentation Listing
- Loop Diagrams
- Calibration Information
- Motor (hp) Sizing
- Variable Frequency Drives/Adjustable Speed Drives
- Generator Sizing
- Motor Control Centers [Low Voltage (<600V) to Medium Voltage (36kV)]
- Lift Station - Electrical/ Instrumentation Controls Work Report of Findings

WATER RESOURCES

- Regional Flood Protection Plans
- Watershed Master Plans
- Stormwater Management Plans
- Streamflow H&H Modeling
- Grant Applications
- 3-D Modeling
- Mapping
- Channels
- Storm Sewer Systems

LJA's strongest asset is our reputation for providing quality services, understanding client needs, and our commitment to developing creative, innovative, and responsible solutions to a wide variety of project challenges.

Kaufer-Hubert Boat Ramp
Kleberg County, TX

B

PROJECT MANAGER QUALIFICATIONS

B » PROJECT MANAGER QUALIFICATIONS

DOUG DUSINI, PE

PROJECT MANAGER AND DREDGING

LJA ENGINEERING

16 YEARS OF EXPERIENCE

EDUCATION

2005, MS, Civil Engineering, Ohio State University

2001, BS, Civil Engineering, Ohio State University

PROFESSIONAL LICENSE

2017, PE, Texas #127813
Expiration Date: 6/30/2022

PE, South Carolina #27764
PE, North Carolina #036593
PE, Florida #71756

CERTIFICATIONS/ MEMBERSHIPS

American Shore & Beach Preservation Association

American Society of Civil Engineers

PUBLICATIONS

"The effect of Lake Erie water level variation on sediment resuspension." Journal of Great Lakes Research. Volume 35, Issue 1, March 2009, Pages 1-12. Douglas S. Dusini, Diane L. Foster, Jennifer A. Shore, Carolyn Merry.

SIMILAR DESIGN EXPERIENCE

Doug graduated from Ohio State University, where he studied coastal hydraulics for his MS in civil engineering and environmental engineering for his BS in civil engineering. He is a licensed Professional Engineer in Texas, South Carolina, North Carolina, and Florida. During his 16 years of coastal engineering practice, he has designed and managed projects along the Texas and Florida gulf coasts, the southeastern Atlantic coast of the United States, and at several locations in the Caribbean as well as Bermuda. His project management experience includes shoreline and transportation infrastructure and beach re-nourishment, inlet stabilization and relocation, assessment of potential storm damage to residential structures, navigational and recreational area dredging, FEMA flood map revisions, assessment of storm damage to residential and other coastal structures, coastal hydraulics modeling, and construction project inspection.

RELEVANT PROJECT EXPERIENCE

Protection of State Highway 87 From Gulf of Mexico Flooding and Shoreline Retreat, Galveston County, TX – Mr. Dusini analyzed roadway protection measures to reduce flood frequency and pavement damage caused by a rising and encroaching Gulf of Mexico on Bolivar Peninsula in Galveston County. Proposed measures included grade raising of the pavement surface, rock revetment within the highway right of way, improvements to vehicular beach access points, and dune restoration.

Lynchburg Ferry Emergency Repairs, TX – Mr. Dusini assessed the conditions of the existing breakwater that provides wave protection for ferries while in berth at the north landing. He developed detailed calculations as part of the analysis of typical as well as extreme waves and currents at the site. He prepared detailed design and bid documents including drawings and specifications for the rubble-mound breakwater and its tie-into the existing riprap revetment, which allowed for adequate clearance for the ferry hulls at extreme low-water conditions, and overtopping protection for a 50-year sea level rise. Mr. Dusini also optimized the length of the breakwater for a replacement structure at the berthing area.

Sabine River Authority Parks and Recreation Master Plan, Lake Fork, TX – Mr. Dusini performed preliminary site development of the marina facilities and boat ramp at Caney Point on Lake Fork, and assessed the undeveloped coastline at eight sites on three lakes within the Sabine River Authority to find detrimental and beneficial shoreline properties for a variety of recreational projects. He performed detailed engineering

River Authority to find detrimental and beneficial shoreline properties for a variety of recreational projects. He performed detailed engineering investigations to assess the dredge and excavation quantities for the marina basin and approach channels. He also identified potential permitting requirements and investigated other site characteristics including cove and shoreline areas that are suitable for boat ramps and related amenities, nearshore slopes suitable for beaches and boat beaching areas, dredging and excavating possibilities.

Harris County WCID No. 1 (2017), FEMA Flood Damage Assistance, Highlands, TX – Mr. Dusini is currently managing the FEMA grant application process for the water control and improvement district in Highlands, Texas. The WCID plant, which sits adjacent to the San Jacinto River, was flooded during Hurricane Harvey, and flooding damaged equipment critical to the operation of the plant. The flooding damaged equipment critical to the operation of the plant. As project manager, Mr. Dusini has developed preliminary engineering reports detailing the damage to the facilities and to specific components. He is working closely with the FEMA program manager, as well as the district general manager, technical consultants, and subconsultants to maximize mitigation efforts and reimbursement for work completed.

Velasco Drainage District, Freeport Coastal Storm Risk Management and Ecosystem Restoration, Certification of Velasco Hurricane Flood Protection Levee, Freeport/Lake Jackson, TX – Mr. Dusini developed detailed calculations to evaluate wave runup and overtopping of the earthen levee as well as the wave forces on the levee's structural components as part of the District's USACE levee certification. Computed the maximum horizontal wave force acting on five vertical structures–Power 2 gate and Plant A wastewater outfall, the Memorial Tide Gate, and two Dow cooling water intake structures. Computed horizontal forces and runup at the A611 building bulkhead and at eight T- or I-wall structures within the levee system. Performed detailed analysis to quantify the deficiencies of the levee system and developed two tiers of corrective measures for achieving acceptable conditions for the levee system.

Highway 3 Boat Ramp Facilities Upgrade, Galveston County, TX – Mr. Dusini is the project manager for facilities upgrades to a community boat ramp park including parking lot upgrades, lighting, picnic pavilion, water, electrical, information kiosks, and installation of a new kayak launch with an ADA access ramp. He has prepared construction cost estimates for several design scenarios, and developed the rehabilitation plans for the 40-vehicle parking that includes ADA access.

Sabine River Authority, Lake Tawakoni Spillway Channel Bank Stabilization, Northeast, TX – Mr. Dusini prepared the detailed design and bid documents including drawings and specifications for the 400-ft long steel retaining wall along the spillway channel's east bank. He prepared the construction cost estimate and prepared detailed volume calculations of the project's excavation requirements.

Sienna Plantation Levee Improvement District, Steep Bank Creek Channel Bank Stabilization, Missouri City, TX – Mr. Dusini designed the 3,800 cubic yard gabion dike along the bend of the creek that has been eroding the toe of the levee, particularly during extreme flooding. The Sienna Plantation Levee, in Missouri City, Texas, protects several hundred million dollars' worth of residential infrastructure. The gabion dike is designed to protect the earthen levee from the erosive effects of flood water, while redirecting the flow away from the threatened bank and toward the center of the stream.

Sarasota County Bay Island Park Seawall Replacement – Mr. Dusini was the site engineer for the construction management phase of the seawall replacement project. The project consisted of replacing over 400' of the island park's concrete-panel bulkhead with poured-on-site reinforced concrete panels stabilized with tie-backs and concrete deadmen. Mr. Dusini redesigned the concrete cap at the bulkhead corner section to accommodate a grade elevation change during construction. The park project also included landscape design, paving and walkways, benches and picnic areas, and pedestrian hand railing.

Port of Port Arthur Berth 6 Expansion
Port Arthur, TX

C

TEAM QUALIFICATIONS

JEFF COYM, PE

PRINCIPAL-IN-CHARGE

LJA ENGINEERING

SIMILAR DESIGN EXPERIENCE

Jeff has 20 years of experience in municipal infrastructure design and project management, largely within Corpus Christi and along the Texas Gulf Coast. He is responsible for directing efforts of project teams, including the surveying and mapping and CADD technicians, to successfully completing specific projects. Mr. Coym's experience includes projects carried from preliminary investigations through design and construction phases, to final job acceptance.

20 YEARS OF EXPERIENCE

EDUCATION
2002, BS, Civil Engineering,
Texas Tech University

PROFESSIONAL LICENSE
2008, PE, Texas #101983
Expiration Date: 9/30/2022

CERTIFICATIONS/ MEMBERSHIPS
American Council of Engineering Companies

American Society of Civil Engineers

RELEVANT PROJECT EXPERIENCE

City of Corpus Christi, Bear Lane from SPID to Old Brownsville Road, Corpus Christi, TX – Project Engineer for this $6.26M project, including reconstruction and widening of an existing two-lane rural section roadway with drainage ditches to a three-lane curb and gutter section with storm sewer and drainage outfall. Project included significant waterline and sewer line replacement/rehabilitation. Work included surveying and mapping, preliminary engineering, final design, bidding, and construction phase services.

City of Corpus Christi, Buddy Lawrence Drive, IH 37 to Antelope Street, Corpus Christi, TX – Project Engineer for this $2.72M project, including complete rehabilitation of the existing two-lane concrete and asphalt street sections with drainage ditches to a three-lane curb and gutter section with underground storm sewer. Project also included utilities rehabilitation and upgrade of all utilities. Work included surveying and mapping, preliminary engineering, final design, bidding and construction phase services.

City of Corpus Christi Rodd Field Road Expansion, Saratoga Blvd to Yorktown Blvd, Corpus Christi, TX – Project Engineer for this $15.2M project. The scope of this project is to reconstruct 9,000 LF of City Arterial Street along with replacement of all pertinent utilities. This project is currently in the construction phase.

City of Portland Phase 9 Street Improvements, Portland, TX – Project Manager for this $3.5M project. Phase I included full depth reconstruction of eight roadways and overlay operations of ten roadways including ADA ramps, parking lot and sidewalk expansions, and pavement repair to various portions of eighteen streets in the City of Portland. Phase II included removing 2,100 LF of the existing Memorial Parkway northbound lane and curb and gutter along the west side and replacing with new flexible (asphalt) pavement with an alternate for a concrete (rigid) pavement, curb and gutter, ADA ramps, 10' x 6" reinforced concrete curvilinear hike/bike trail path in median, and associated pavement markings.

JAY GARDNER

ASST. PROJECT MANAGER AND PERMITTING

LJA ENGINEERING

22 YEARS OF EXPERIENCE

EDUCATION

2000, BS, Biology, Texas A&M University - Corpus Christi

CERTIFICATIONS/ MEMBERSHIPS

OSHA HAZWOPER

Certified Wetland Delineator; Wetland Training Institute

MOCC Boat Certification USFWS/DOI

Vice President, Coastal Conservation Association, Corpus Christi Chapter

Chair, Habitat Today/Fish for Tomorrow Committee, Coastal Conservation Association (CCA) State Board

Chair, Island Strategic Action Committee for the Corpus Christi City Council

Committee for the Corpus Christi City Council

Previous Co-Chair, Watershore and Beach Advisory

SIMILAR DESIGN EXPERIENCE

Jay has been involved with beach and dune permitting, restoration, and mitigation for fifteen years. Projects have included developments, walkovers, and dune restoration on Padre and Mustang Island, South Padre, Cameron County beaches and Matagorda Island, as well as permitting and compliance monitoring for USACE permits regarding beach maintenance. He is very knowledgeable of local beach/dune rules, Texas Administrative Code Chapter 15, The Open Beaches Act and Chapters 61-63 of the Natural Resources Codes dealing with beach access, rights, and dune protection. Mr. Gardner has spent many volunteer hours drafting and revising Beach Management Plans with the City of Corpus Christi, Nueces County, Cameron County, and the TGLO.

Mr. Gardner has worked with a variety of coastal governments, UTBEG, the TGLO, citizen committees and task forces regarding beach and dune mapping, management, and protection. Mr. Gardner has also served to review proposed projects from local governments, engineers and scientists. His staunch review of projects typically results in additional protection or improvement of projects and our natural resources, that typically result in cost savings through efficiency.

RELEVANT PROJECT EXPERIENCE

REPRESENTATIVE BEACH/DUNE PROJECTS

- Jim Williams Beach Access/"drive-over" and Dune Permit
- Joseph Cabela Beach Access/"drive-over" and Dune Permit
- James Worth Beach Access/"drive-over" - Utilities Port Aransas Dune Permit
- Windsport Venue Phase I, City of South Padre
- Cameron County Beach Maintenance Permit (USACE) and Monitoring
- Bob Hall Pier Expansion
- Nueces County Beach Maintenance Permit and Monitoring
- Nueces County Coastal Parks Master Plan
- Port Royal Walkover
- Island Park Estates Subdivision and Walkover
- Beachview Estates Subdivision and Walkover
- Lost Colony Dune Restoration
- Sunrise Shores Subdivision and Walkover
- La Concha (various lots, DPP/BCC) Subdivision and Walkover
- Bella Vista Subdivision
- BriteStar Subdivision and Walkover
- Padre Balli Park Improvements
- Shoreline Protection Projects
- Laguna Point Recreational Area - City of Port Mansfield

- Fulton Beach Road - City of Rockport/Fulton
- Little Bay Oyster Restoration Project
- Packery Channel Park - Nueces County
- PJ's Marina
- JFK Boat Ramps and Bulkhead
- Tortuga Harbor

Beach and Dune Permitting and Restoration Experience

- Intimate knowledge of Texas Administrative Code Chapter 15, The Texas Open Beaches Act and Chapters 61-63 of the Natural Resources Code. Also intimately familiar with most of the Beach Management Plans and Erosion Response Plans for Texas Coastal Counties.

Permitting and Regulatory

- Provided project and permitting support for civil and coastal engineering projects including roadways, drainage improvements, wastewater treatment plants, oil and gas pipelines, beach maintenance and nourishment, and private developments
- ESA formal and informal ESA Section 7 endangered species act consultation for City of Corpus Christi, Nueces County, City of Port Aransas, Cameron County, TGLO, and private developments

Wetland Delineations and Habitat Characterizations

- Performed wetland delineations in accordance with the 1987 USACE Wetlands Delineation Manual and the Atlantic and Gulf Coast Regional Supplements for City of Corpus Christi, Nueces County, City of Port Aransas, Koch Pipeline, City of Leakey, TWDB, USDA, URS and many private companies and individuals
- Performed habitat characterizations and environmental assessments in association with the USACE regulatory process for over 10 years
- Have performed Endangered and Threatened Species surveys and studies and coordinated with USFWS and TPWD regarding listed species for most central and south Texas counties

NEPA Compliance

- Categorical Exclusion Document (CE) – Williams Drive Phase III – resulted in a FONZI finding. CE document for TxDOT and FHA. Coordinated with multiple partners (City of Corpus Christi and sub-consultants
- Environmental Assessment (EA) – SH 200 Ingleside Industrial Corridor – researched and drafted EA document for TxDOT and FHA. Work also included coordination with the Texas Historical Commission. Approval pending (8/2013
- NEPA compliance required for all USACE Individual Permits

Environmental Assessments and Other Regulatory Experience

- Project support associated with Phase I Environmental Site Assessments for San Patricio County, City of Ingleside, and Baffin Bay Water Supply Company
- Development and submittal of Texas General Land Office (GLO) land lease applications for City of Corpus Christi, City of Port Aransas, many private landowners (piers and docks) and the oil and gas industry
- Have completed and approved several Environmental Reports for USDA – State Revolving Fund and EDAP Programs

ROBIN WARRICK, PE, SIT

ENGINEERING & DESIGN AND BULKHEAD

LJA ENGINEERING

15 YEARS OF EXPERIENCE

EDUCATION

2007, BS, Civil Engineering, Lamar University

PROFESSIONAL LICENSE

2011, PE, Texas #110393
Expiration Date: 9/30/2022

PE, New Mexico
PE, Oklahoma
PE, Iowa
PE, Pennsylvania
PE, Louisiana
PE, Colorado

CERTIFICATIONS/ MEMBERSHIPS

American Society of Civil Engineers

Coasts, Oceans, Ports, and Rivers Institute – Regional Chair (Texas Section, Beaumont)

SIMILAR DESIGN EXPERIENCE

Robin is a structural engineer and project manager in LJA's Marine Facilities Group and has been with LJA since 2012. He served in his current project manager role for eight years and has over 15 years of experience designing bulkheads, bridges, docks, mooring / berthing systems, structural inspections and piping and industrial structures. Robin's responsibilities have included project management, design supervision, structural design, civil design, cost estimating, scheduling and specification development.

RELEVANT PROJECT EXPERIENCE

Dock Inspections, Port of Texas City (POTC), Texas City, TX – Project Manager/Lead Engineer for the dock inspection program. Tasks include inspection and condition assessment of 13 liquid transfer docks and the associated shore protection, as well as, making repair recommendations including location, method and urgency. Additional tasks include bid document preparation, contractor selection assistance, construction support and repair inventory.

Confidential Client, Ingleside, TX – Project Manager for structural inspection and dock capacity analysis. Tasks included a partial structural health inspection of concrete connections, assessment of dock to increase berthing capacity for larger and deeper vessels, mooring/berthing analysis, recommend modifications for dock upgrade, and project scheduling.

Velasco Drainage District (VDD) Levee Inspection/FEMA Certification, Brazoria County, TX – Assistant Project Manager/Lead Structural Engineer/Inspector for inspection of the 66 structure on VDD's federal levee. Tasks for this project included inspecting and assessing the current structural integrity and performing a design checks of the levee structures for compliance with FEMA and USACE regulations, and making repair recommendations to bring deficient structures up to an acceptable rating for VDD to obtain a levee certification.

Lake Corpus Christi Intake Structure Rehab, Alice Water Authority, Mathis, TX – Discipline Lead for evaluation and design of shoring options of the existing pump house, a steel building on concrete deck support with braced steel pipe columns. Responsibilities included shoring functionality and constructibility review with marine contractors.

Dock 40/41 Turning Cell Rehabilitation, Port of Texas City, TX – Project Manager/Lead Structural Engineer for the rehabilitation design of a 60' diameter turning cell. Responsibilities included detailed analysis of a pile supported cellular structure, and repair sleeve, and construction support.

BING ZHANG, PE

ENGINEERING & DESIGN

LJA ENGINEERING

20 YEARS OF EXPERIENCE

EDUCATION

PhD, Civil Engineering (Transportation Infrastructures), Virginia Tech
MS, Civil Engineering (Structural), Nanyang Technological University
BS, Civil Engineering (Harbor and Waterway), Hohai University

PROFESSIONAL LICENSE

2012, PE, Texas #110956; California #C77923

SIMILAR DESIGN EXPERIENCE

Dr. Zhang is a structural engineer who has more than 20 years of experience in design, inspection, evaluation, and rehabilitation of waterfront and hydraulic structures, including marine terminals, bulkheads, riverbank stabilization structures, locks, floodgates, and foundations. He has strong analytical skills and extensive experience in structural modeling and analysis with consideration of structure specific load conditions and soil-structure interaction. He is experienced in developing inspection and evaluation reports, detailing of steel and concrete structures, analysis and design procedures, QA/QC process, and is familiar with design codes and standards for marine structures, hydraulic structures, and other civil works.

RELEVANT PROJECT EXPERIENCE

Lake of Corpus Christi Water Intake Structure Rehab, TX – Structural Lead Engineer for evaluation of structural loading capacity and repair options of existing pump house platform, which is steel building on concrete deck supported with braced steel pile columns. Coordinate underwater and above water inspection of the existing structure, review inspection report with detailed measurements, develop structural evaluation report, design structural rehabilitation for the structure.

Pelican Island Bridge Foundation Rehab, Galveston, TX – Lead engineering evaluation of existing underwater sheet pile wall protection for the bridge foundation and establish the new protection elevation limits. Work with underwater inspection to establish existing condition for the rehabilitation of the protection system. Evaluate existing structure and design necessary rehabilitation system.

Lynchburg Ferry Post Harvey Improvements Phase I, II, Harris County PC2, TX – Lead structural design of replacement and new sheet pile bulkhead with anchor systems at both landings. The design considers future scour and various tie-ins, construction phasing, connections and interfaces with existing bulkhead wall and ramp abutment.

Velasco Drainage District Levee Certifications, Brazoria County, TX – Lead structural analysis to evaluate structural stability and strength along the levee, including pump stations, gate wells, outfall and intake structures, floodwalls, and various types of gate closure structures. Coordinate with structural inspection for the evaluation of existing structure.

City of Portland Railroad Ditch Hike and Bike Trail, Portland, TX – Project manager and design Engineer for a 10-ft. wide concrete hike bike trail which includes approximately 1,375 square feet of concrete sidewalk, one ditch crossing structure, retaining walls, earthwork, site grading, lighting, storm water pollution prevention plan and traffic control.

KRITON THEODORIDIS, PE

ENGINEERING & DESIGN

LJA ENGINEERING

23 YEARS OF EXPERIENCE

EDUCATION
1998, MS, Civil Engineering, University of Houston
1996, BS, Civil Engineering, University of Houston

PROFESSIONAL LICENSE
2002, PE, Texas #90317

CERTIFICATIONS/ MEMBERSHIPS
TxDOT Pre-Certification Employee Sequence # 21983; Categories: 5.2.1, 5.3.1, 5.5.1

SIMILAR DESIGN EXPERIENCE

Mr. Theodoridis has 23 years of experience in bridge design, including on and off–system bridges, bridge widenings, design–build projects, light–rail bridges, viaducts, and multi–level interchanges. His design experience includes the design of vehicular and light rail bridges utilizing reinforced, prestressed and post–tensioned concrete, straight and curved steel plate girders and trapezoidal box girders as well as spliced precast concrete girders. He has also participated in the design of a twin cantilever bridge built using the cantilever segmental construction method. Other structures designed include cantilever/MSE/drilled shaft/sheet pile retaining walls, water and wastewater structures and underground structures such as tunnels and subway stations.

RELEVANT PROJECT EXPERIENCE

Lynchburg Ferry Post Harvey Improvements, Harris County PC2, Baytown, TX – PS&E for the upgrade of existing ferry infrastructure. Deputy project manager in the structural design of new bulkheads, replacement of existing ramp abutments (needed to move the existing ramp bearings above the splash zone), replacement of existing steel ramps, road works because of the raised road profile that ties to the higher ramp elevation and miscellaneous site design on both the North and South landings.

I-10 bridge over the San Jacinto River, TxDOT, Baytown, TX – PS&E for the replacement of the bridge fender system and all protective dolphins in the I-10 bridge over the San Jacinto river. Following Hurricane Harvey, the existing fendering and collision protection structures (dolphins) collapsed or experienced irreversible damage because of the large scour and high river velocities. Deputy project manager in the design of the replacement structures. Coordinated development of a 3D model to view embedment depths of existing bridge foundation as well as the existing fendering system and dolphins that remained standing. Identified critical issues with all the structures, held meetings with client to discussed findings and presented available options to address each.

Pelican Island Bridge, TxDOT, Houston, TX – Deputy project manager in the preliminary engineering study that investigated the condition of the Pelican Island Bridge in Galveston, TX and proposed repair details in line with TxDOT's available budget. This is a bascule bridge (designed to carry both rail and vehicular loading) build in the 1960s with a 215-ft steel truss main span, nine adjacent spans with two steel plate riveted girders and 42 spans composed of prestressed concrete beams. Proposed repairs involved the strengthening of the existing foundation, repairs of the prestressed concrete piling and prestressed concrete beams as well as various steel girder strengthening and re–painting works.

DEONNA COLEMAN, PE

LIGHTING

LJA ENGINEERING

17 YEARS OF EXPERIENCE

EDUCATION

2004, BSEE, Electrical Engineering, University of Houston

PROFESSIONAL LICENSE

2014, PE, Texas ##118574, Louisiana #42471, New Mexico #25399, Oklahoma #31967, Pennsylvania #091539, Wyoming #18189

SIMILAR DESIGN EXPERIENCE

Ms. Coleman has 17 years representative experience in the design and engineering of Oil & Gas facilities; Engineering and Design of Electric Power Systems for Oil & Gas facilities, metering sites, and valve sites. Responsibilities include Electrical System Analysis with SKM and ETAP, emergency power generation, arc flash, short circuit/fault protection, lighting design, lightning protection, and grounding, load lists, one-lines and motor schematics. Additionally, responsible for scopes of work, project estimating, equipment specifications, bid evaluations, instrument index, cause & effect matrix, PFDs and P&IDs, datasheets, and keeping current on industry codes/standards (NFPA/NEC, IEEE, ANSI, NEMA, and API).

RELEVANT PROJECT EXPERIENCE

Gulf South Meter Station, Refugio, TX – As Senior Project Manager and Electrical Engineering lead, the following tasks were performed at the meter station.

- Oversight of all engineering and design deliverables
- Coordination with Electrical Utility for a new drop
- Coordination with two stake holders in the metering design.

Wasson Station Electrical Power Upgrade, Yoakum County, TX – Senior Project Manager for the addition of a Power Distribution Building and Motor Control Center (MCC), along with two low voltage transformers, demolition of existing station utility yard equipment, fused cutouts, switch rack and conductors.

Maple Leaf Tank Terminal Addition, Deer Park, TX – Senior Project Manager and Engineer responsible for the distribution of existing utility power to new tank areas and coordination of new utility power to a new area of five tanks. Specified and designed new Power Control Building, Delta V Charms panels and Grounding, integrating new instrument signals to existing Delta V Controllers, and implemented Fiber connections to existing fiber switches on the communications infrastructure. In addition, designed the outdoor racks for the tank pump's motor starters assemblies.

Valley Crossing Pipeline (VCP) Metering Stations, Various locations, TX – Project Manager and Electrical Engineering lead, the following tasks were performed for Nine (9) meter stations.

- Oversight of all engineering and design deliverables
- Instrument lists and Datasheets
- Load lists and onelines
- Procurement duties: Equipment specifications, Bid Evaluations, Instrument Data sheets

DAVID SHERRILL

REGULATORY AND PERMITTING

LJA ENGINEERING

27 YEARS OF EXPERIENCE

EDUCATION

1995, Master of Applied Geography Resource and Environmental Studies, Southwest Texas State University

1993, BS, Resource and Environmental Studies, Southwest Texas State University

CERTIFICATIONS/ MEMBERSHIPS

Certified Wetland Delineator

Society of Wetland Scientists

Federal Energy Regulatory Commission (FERC) Training and Certification

National Environmental Policy Act (NEPA) Training and Certification

Texas Department of Transportation Certification No. 6551 – precertified in 1.3.1, 2.3.1, 2.4.1, 2.4.2, 2.4.3, 2.5.1, 2.6.1, 2.6.2, and 2.13.1

SIMILAR DESIGN EXPERIENCE

David has 27 years of experience in wetland and land use management and over 22 years as a Project Manager for environmental services. He has expertise in the USACE Clean Water Act Section 404 wetland permitting, CWA Section 401 Water Quality Certification, and the Rivers and Harbors Act Section 10. He has a diverse background in natural resource assessment, specializing in wetland delineations, wetland permitting, and the creation and mitigation of wetlands and Section 401 water quality plans. David has a thorough knowledge of environmental and wetland regulations, particularly the Clean Water Section 404, allowing him to successfully coordinate large-scale, multi-task projects. He also has expertise with coastal permitting issues and has consulted and coordinated over 50 projects located within the coastal zone or within submerged land owned by TGLO. In addition to USACE permit approval, the coastal projects involved the coordination of approved TGLO coastal land use permits, Beach Construction Certificates, and/or dune mitigation plans. During his 22 years of employment with LJA, David has coordinated over 450 wetland delineations which were verified by the USACE, coordinated permit approval for over 100 Individual Permits and 250 Nationwide Permits including NW 7, 12, 13, 14, 26, 29, 33, 39, 42, 18. He has also completed over 20 Section 10 dredge and fill permits.

RELEVANT PROJECT EXPERIENCE

Rockport Islands, Islands of Rockport, LP, Aransas County, TX – Islands of Rockport, LP purchased the 72-acre tract located east of the S.H. 35 and S.H. 188 intersection in Aransas County for the purpose of developing a waterfront canal residential subdivision. Mr. Sherrill delineated eight non-tidal, freshwater wetlands totaling 13 acres, 1.5 acres of sea grasses, tidal fringe wetlands, and the Section 10 boundary. A wetland delineation was also conducted for the 35-acre off-site wetland mitigation area which contained 20 acres of non-tidal jurisdictional wetlands. Both wetland delineations were mapped using GPS equipment according to the Corps 2003 GPS standard operating procedures. Mr. Sherrill also assisted the client during the Individual Permit process to impact unavoidable impacts for the purpose of developing a canal residential development with direct marine access to the Gulf Intracoastal Waterway.

Springwoods Development, Harris County, TX – Mr. Sherrill was the project manager for the wetland delineation and subsequent permitting work for this 315-acre area. Of the wetlands delineated, it was determined that the project would qualify for a Nationwide Permit 29. A Nationwide permit application was submitted to the Corps requesting authorization to fill wetlands in order to construct outfall structures into Spring Creek as well as place fill for lots.

NATALIE DAVIS

REGULATORY AND PERMITTING

LJA ENGINEERING

12 YEARS OF EXPERIENCE

EDUCATION

2012, MS, Coastal Management, NOVA Southeastern University

2009, BS, Marine Biology, Texas A&M University at Galveston

CERTIFICATIONS/ MEMBERSHIPS

SCUBA Diving Certifications: Dive Master, Advanced, Rescue, Nitrox, AAUS, NSS-CDS Cavern

USACE Wetland Delineation Training Certificate

Texas Boating Safety Course Certificate

TCEQ Air Permitting 101 Certificate 2016

40-Hour HAZWOPER OSHA/ RCRA Certification

USEPA 40 CFR 60 Visible Emissions Evaluator Certificate

Post Federal Award Requirements Training Certificate

SIMILAR DESIGN EXPERIENCE

Natalie has over 12 years of experience in environmental sciences with specific focus on scientific data collection of both terrestrial and marine habitats and developing technical reports. She offers extensive knowledge and understanding of current federal permitting guidelines and mitigation requirements, particularly Section 404 of the Clean Water Act. She has a seasoned background in observing and interpreting the interactions between flora and fauna within marine environments and coastal habitats, including the long-term interactions among the two. She has conducted with over 80 wetland delineations, prepared and permitted over 60 applications for Nationwide Permits (NWP) and Individual Permits (IP) for submission to the United States Army Corps of Engineers (USACE). Her involvement at LJA has also contributed to the completion of mitigation planning and monitoring with over 90 field determinations of wetland habitats according to the USACE permitted guidelines.

RELEVANT PROJECT EXPERIENCE

Islands of Rockport, Aransas County, TX – Assisted with the on and off site and seagrass mitigation associated with the Individual Permit for Islands of Rockport, a canal-dependent residential development. The project involved a survey of existing conditions and management of the wetland creation areas on and off site. To implement the required seagrass creation, intensive research was conducted to determine the most appropriate seagrass transplant method with the highest success rates. BOA concluded that the use of "peat pots" for individual seagrass transplant was the best option financially as well as environmentally. The original transplanted seagrasses have shown exceptional growth and there is evidence of propagation of new seagrass within the transplant area. Monitoring of the created seagrass bed has been initiated and will continue until the created wetlands have met the required USACE minimum success criteria. Determining the survival rate of planted seagrasses along shoreline is critical for the long-term of the shoreline as well as the ecological balance for this specific area. Continued routine coastal vegetation survival monitoring. Received approval of 6 permitted residential docks extending over state owned lands through the General Land Office (GLO).

Spoonbill Bay, Galveston County, TX – Performed wetland delineation on the 115-acre site located in Galveston, Texas. Identified multiple features on the subject property including, wetlands, salt marshes, sand flats, and seagrass beds. Submitted the Individual Permit to the USACE for the residential circular canal development plan. Performed seagrass bed survey and sand flat monitoring survey for the presence of Threatened and Endangered Species.

ALBERT FRANCO JR., PE, RPLS

SITE INVESTIGATION AND SURVEYING

LJA ENGINEERING

44 YEARS OF EXPERIENCE

EDUCATION

1978, BS, Civil Engineering,
University of Texas at Austin

PROFESSIONAL LICENSE

1986, RPLS, Texas #4471
Expiration Date: 12/31/2021

1993, PE, Texas #77597
Expiration Date: 6/30/2022

CERTIFICATIONS/ MEMBERSHIPS

TxDOT pre-certifications: 6.1.1, 15.1.1, 15.2.1, 15.2.2, 15.3.5, 18.2.1

SIMILAR DESIGN EXPERIENCE

Albert is a registered professional land surveyor and registered professional engineer in Texas. As a surveyor, he has over 40 years of experience in land surveying and topographic surveying. Albert has performed various topographic and land surveys along the Texas Gulf Coast including municipalities and developers. He also has Subsurface Utility Engineering (SUE) experience and has been providing SUE for improvement projects. He has over 10 years of SUE experience in the location and routing of various utilities on along street right of ways and in the surrounding Bays.

RELEVANT PROJECT EXPERIENCE

McGee Beach Shoreline Stabilization, Great Southern Dredging, Inc., Corpus Christi, TX – Set tide gage at borrow sites A and B. Set benchmark on steps of McGee Beach. Provide before and after dredge soundings at Borrow Site A and portion of B1, B8, B9, B10, B11 and B12 of Borrow Site B. Provide drawings and volume calculations for both borrow sites. Hydrographic surveys of the remainder of Borrow Site B will be provided if needed.

Gollihar Road, City of Corpus Christi, Corpus Christi, TX – Performed topographic surveys along Gollihar Road from Kostoryz to Weber, including all utilities, stormwater, and wastewater locations. The ROW alignment was also surveyed to determine for the design limits. Vertical and horizontal control was tied in to the City GPS monuments.

Nourishment of Corpus Christi Beach, Longhorn Excavators, Inc., Corpus Christi, TX – Provide topographic/ hydrographic surveys, cross-sections, and quantity computations, as directed by client, in support of Client's contract with the City of Corpus Christi to nourish the beach at North Beach.

North Slip New Bulkhead Project, Port of Texas City, Corpus Christi, TX – Perform topographic survey and tie visible obstacles which will interfere with the pile driving between Dock 14 and 15. Perform underwater assessment along the existing sheet pile bulkhead as indicated on sketch provided by Champ-East. Provide hydrographic survey 200' from shoreline and provide a drawing.

Port of Corpus Christi Docks, Port of Corpus Christi Authority, Corpus Christi, TX – Performed bathymetric surveys on various docks in the Corpus Christi Ship Channel for annual maintenance dredging. They were performed from the toe of the ship channel to the face of the docks or to the shoreline. Electronic equipment with GPS capability was used.

DAVID NESBITT, RPLS, LSLS

LSLS SURVEYING

LJA ENGINEERING

46 YEARS OF EXPERIENCE

EDUCATION
1976, CETA Drafting Program,
Del Mar College

PROFESSIONAL LICENSE
1999, RPLS, Texas #5302
Expiration Date: 12/31/2021

2002, LSLS, Texas #5302
Expiration Date: 12/31/2021

CERTIFICATIONS/ MEMBERSHIPS
Texas Society of Professional Surveyors

SIMILAR DESIGN EXPERIENCE

David manages the survey departments for borth of LJA's Corpus Christi and the Alice offices and is responsible for directing the efforts of survey crews, survey technicians, and CAD operators, performing records research, preparing estimates, calculating surveys, preparing field notes, and all other tasks associated with surveying and mapping projects. He has over 45 years of experience in all facets of the surveying and mapping field including National Geodetic Survey (NGS) control surveys, state land surveys, wetlands delineation surveys, boundary surveys, topographic surveys, route surveys, oil field lease identification, aerial mapping and photography surveys, construction staking surveys, lawsuit review, and expert witness testimony. David is one of approximately 60 Texas Licensed State Land Surveyors.

RELEVANT PROJECT EXPERIENCE

Port of Corpus Christi Authority, Naval Station Ingleside Survey, San Patricio and Nueces Counties, TX – LSLS and Project Manager on this survey, which included deed record research of subject and adjoining property owners through local courthouse records as well as from the GLO. Working Sketches and retracement to locate as many original boundary markers in place to define the upland tracts. Also required was the State of Texas submerged land boundary as well as the limits of submerged tracts affecting the subject property. This 576.615-acre property consisted of a 483.158-acre upland tract and a 93.457-acre submerged tract.

Coastal Boundary Survey for South Bay Park Beach Nourishment Project, GLO Project #CL 19990014, City of Palacios, TX – LSLS Project Manager for this survey, which included scientific analysis of tidal data in order to determine the State of Texas submerged land boundary and adjacent filled area. Oversee preparation of maps and reports to GLO in order to permit project.

State Land Shoreline Determinations – Mean High Water and Mean Higher High Water surveys to establish the limits of State owned submerged land all along the Texas coast. Clients have included private citizens, governments, and industries.

Gradient Boundary Determinations – Determination of the Gradient Boundary Line along waterways in the State in order to establish the States ownership interests in these waterways. Clients have included private citizens, governments, and industries.

YESENIA SINGLETON, PE

PARKING & SITE DRAINAGE

LJA ENGINEERING

20 YEARS OF EXPERIENCE

EDUCATION
BS, Civil Engineering,
Polytechnic University of
Puerto Rico

PROFESSIONAL LICENSE
2008, PE, Texas #102398

CERTIFICATIONS/ MEMBERSHIPS
TXDOT LGPP Qualify Person
TXDOT 4.2.1 Major
Roadway Design
American Society of Civil
Engineers (ASCE)

SIMILAR DESIGN EXPERIENCE

Mrs. Singleton's has over 20 years of experience in all aspects of the civil engineering profession. Her work responsibilities include the actual planning, design, and construction phase of projects. She has served as Professional Engineer for many projects, from initial planning studies through final Design and Construction administration Phases. She has a strong background in Hike and Bike Trail, Recreational Park Improvements, Hydrology & Hydraulic design, as well as public infrastructure on Paving, Drainage & Drainage Improvements throughout the South Texas area. Work includes CDBG, TxDOT, TAS, AFA & Local & Private Funded projects.

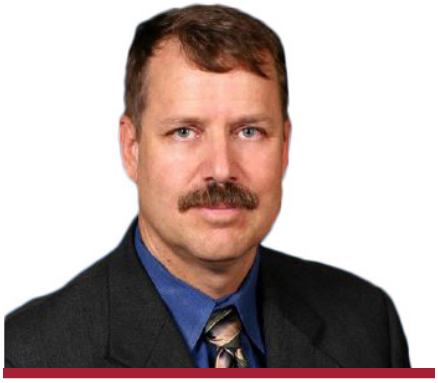
RELEVANT PROJECT EXPERIENCE

Jim Wells County Orange Acres Sanitary Sewer Improvements 2013/2014 TxCDBG Project, Jim Wells County, TX – Project Manager and Design Engineer for project, which included Installation of approximately 5,100 lf. of 8" and 10" ASTM D 3034 SDR-26 PVC sanitary sewer lines by open cut on County Roads 351, 374, 376 & 379 and, 15 manholes (6'-12' Depth), Six (6) yard service connections, septic tank mitigation, cleanouts, fittings, backfill & pavement repair.

City of Freer 2011 Water and Wastewater Improvements, Freer, TX – Project Engineer design of new 1,152 lf 6-inch C-900 PVC Water Main and 4 Fire Hydrants, as well as 2,612 lf of 6-inch and 8-inch ASTM D-3034 PVC Wastewater lines and 9 Fiberglass Manholes. The project includes 12 water service connections, 36 wastewater connections and street reconstruction.

City of Freer 2009 Street Improvements Project, Freer, TX – Project Manager and Design Engineer for project, which included 52,800 SY's of full depth reclamation (FDR) of existing base and bituminous surface and 1½" of Hot-Mixed-Asphaltic-Concrete final surface, repairs of existing headwalls and installation of new handrails for approximately 3.2 miles of various portions of nine street thoroughfares in the City of Freer, Texas.

Jim Wells County Disaster Recovery Round 2.2 Drainage Improvements GLO Project, Jim Wells County, TX – PM and Design Engineer for project, which included Installation of 150 LF of 7' span x 2' rise precast reinforced concrete box culvert, ASTM C1577, installed by open cut at McMasters Road Drainage Improvements at Lattas Creek. Installation of 645 LF of 18" rise x 28 ½" span reinforced concrete arch pipe, Class IV, installed by open cut and 1,000 LF of drainage ditch, street repair to existing road and surface with 7,945 SY's of one course surface treatment along Gulf Street.



MARK ROCK, PE

GEOTECHNICAL

34 YEARS OF EXPERIENCE

EDUCATION
BS, Civil Engineering, University of Houston

PROFESSIONAL LICENSE
1992, PE, Texas #71395

SIMILAR EXPERIENCE

Mr. Rock has over 34 years of experience in the Geotechnical Engineering field. He has been the Project Engineer, Project Manager, and/or Design Assistant on over 3,000 Geotechnical Engineering Studies across the State of Texas throughout his career. Mark Rock has a reputation for being extremely knowledgeable and experienced with the soil conditions in and around South Texas. Mark Rock's project experience includes site feasibility and distress studies, as well as geotechnical construction inspection services. His design experience includes shallow spread footing and mat foundations, multi-story structures supported on drilled pier foundations in which he has performed pier load tests, roadway and airport pavement design, dock structures, and significant bridge foundations. Mr. Rock's expertise in design also includes construction on highly expansive soils, non-cohesive soils, and compressible soils, as well as providing recommendations for soft soil sampling in wetlands restoration projects.

RELEVANT PROJECT EXPERIENCE

- Corpus Christi Channel Dredging, PCCA, Corpus Christi, TX
- Harbor Bridge Project, Flatiron/ Dragados, Corpus Christi, TX
- Exxon Ethylene Crack Plant, Corpus Christi, TX
- San Leon Oyster Reef, Galveston Bay, San Leon, TX
- Nueces Bay Pipeline, Corpus Christi, TX
- Interstate Grain Dock, Corpus Christi, TX
- Indian Point Shoreline Protection, Corpus Christi, TX
- 90 Dock Structural Evaluation, HDR, Ingleside, TX
- Oyster Lake Shoreline Protection Project, HDR, Galveston County, TX
- Pier R Replacement, Municipal Marina, Corpus Christi, TX
- West Galveston Island Bayside Marsh Restoration, Galveston County, TX
- Ransom Island Shoreline Protection Project, HDR, Port Aransas, TX
- Barge Mooring Area, Lydia Ann Channel, Corpus Christi, TX
- NAS-CC WWTP Improvements, Corpus Christi, TX
- Dock 17, NuStar Terminal, Corpus Christi, TX
- Mooring Dolphins, Corpus Christi Ship Channel, Corpus Christi, TX
- Bay Ltd. Dock, Corpus Christi Ship Channel, Corpus Christi, TX
- Magellan Pipe Bridge, Corpus Christi, TX
- Port of Corpus Christi Authority Wind Farm- Phase I, Corpus Christi, TX
- Bulk Terminal Storm Water Improvements, PCCA, Corpus Christi, TX
- Bulk Terminal Koch Sulfur Products Storage, PCCA, Corpus Christi, TX
- Drainage Ditch and Levee, La Quinta, PCCA, Portland, TX
- Woolridge Road Lift Station, PCCA, Corpus Christi, TX

NELSON GARCIA

DIVER

12 YEARS OF EXPERIENCE

EDUCATION

National Polytechnic College of Science, 2010

CERTIFICATIONS/ MEMBERSHIPS

- Hydraulic Pedestal Crane Operator
- Safe Gulf Training
- TWIC – Transportation Identification Worker Credential
- Water Survival/HUET/METS API RP T-4, T-7
- Rigging Safety (API 2D Sixth Edition) Certification
- Basic CPR, AED and First Aid to Adults Certification
- Hydrogen Sulfide Safety Certification H2S
- Association of Diving Contractors
- Surface Supplied Air Diver Card 49845
- Diver Medic Technician DMT 2604
- Bosiet with CA-EBS
- IMCA Surface Supplied Diver TOC-062420-01
- Crane Rigging Operator
- Certified 3F Vertical Down in water
- Commercial Diver

SIMILAR EXPERIENCE

Mr. Garcia is an accomplished professional with over 12 years of certifiable experience. He has strong qualifications in marine project management, project estimating, mechanical designing, commercial diving, and strategic planning. Mr. Garcia has a natural ability to quickly adapt to proprietary applications and new technologies.

RELEVANT PROJECT EXPERIENCE

Huffman Contractors LLC, Nederland, TX – Diver –

- Installed Water Screen intake on 48" pipeline
- 48" Flange up
- Underwater Welding on 16" piles
- Hydraulic Grinding Underwater
- Broco Burning Underwater of 2 ½" thick concreted filled 12" piles
- Installed Cell Tower Clamps on Cell Towers in Ohio River
- Inspections
- Installed 24" Gate Valves on 36" Risers
- Dive Supervisor/Diver

Ranger Offshore, Inc., New Iberia, LA – Lead Tender/Diver –

- Worked in the Gulf of Mexico, on both American side and Mexico International Waters
- Inspections
- Underwater Construction
- Underwater Grinding
- Salvage/Scrapping
- Installing 36" Clamps and Risers
- Plug and Abandonments

JRon Services, LLC, Gretna, LA – Diver –

- Hand Jetting
- Installing Casing Valves on wells
- Cold cutting and Hydraulic cutting pipeline
- Installing flanges
- Installing Smith-Plus Clamps
- Inspecting keyways/platforms
- Penetration dives inspecting and repairing barges
- Site clearances and debris removal
- Hydrostatic testing
- Shutting down wells
- Setting up all equipment
- Hydro testing various pipelines
- Marking charts on pressure

Port Mansfield Boat Ramps
Willacy County, TX

D

WORK EXPERIENCE

D » FIRM'S WORK EXPERIENCE

KAUFER-HUBERT BOAT RAMP FACILITIES

Kleberg County, TX

NAME OF TEAM LEADER
Jay Gardner

DESCRIPTION OF FIRM'S ROLE
Design, Bid, Construction Phase Services
Permitting Services

PROJECT COST
$500,000

YEAR OF WORK
2018 – 2019

CONTACT PERSON
Judge Rudy Madrid
PO box 752, Kingsville, TX 78363
361.595.8585

APPLICABILITY TO CITY'S PROJECT

- » Design, Bid, Construction Phase Services
- » Boat Ramp Rehabilitation/Construction
- » TPW Boating Access Grant
- » Environmental Compliance

PROJECT DESCRIPTION

LJA provided engineering and planning design, regulatory, cultural resource, and bid and construction phase services for the rehabilitation and expansion of a community boat ramp facility. The work consisted of complete removal and replacement of the boat ramps at Kaufer-Hubert Memorial Park. Additional improvements included widening the entrance road to allow two-way traffic, addition of an ADA compliant sidewalk, ADA parking spaces, and addition of a fish cleaning station. Extensions of the boat ramps including vertical toe walls and scour prevention (rubble fill) was also included, as well as the addition of water and lighting.

BOAT STOP BOAT RAMP FACILITY REHABILITATION

Wood County, TX

NAME OF TEAM LEADER
Jeff Coym, PE
Jay Gardner

DESCRIPTION OF FIRM'S ROLE
Design, Permitting, Hydrographic Survey, Dredging Support, Construction Phase Services

PROJECT COST
$375,000

YEAR OF WORK
2018 – Present

CONTACT PERSON
The Boston Group
Spencer Fillmore
509.307.070

APPLICABILITY TO CITY'S PROJECT
- Design, Bid, Construction Phase Services
- Boat Ramp Rehabilitation/ Construction
- Parking Amenities, Lighting, and Dredging

PROJECT DESCRIPTION
LJA provided engineering and design for the rehabilitation of a boat ramp, parking lot, boat house, moorings, attendant docks and other support amenities for a boat ramp along Laguna Shores Road in Corpus Christi. The work includes the complete removal and replacement of a 50' wide double boat ramp and wingwalls. The area will be coffer dammed and de-watered, and a new ramp and wingwalls will be poured in place. The dredging phase has already occurred and involved 800 C.Y. of removed accumulated sediments. A boat house was also refurbished. A new bulkhead will also be constructed on site during the next phase of work. Permit was received 8-2020. Electrical, Lighting, and water amenities have also already been added.

LEAGUE CITY BOAT RAMP

Galveston County, TX

NAME OF TEAM LEADER
Robin Warrick, PE

DESCRIPTION OF FIRM'S ROLE
Design, Bid, and Construction Phase Services

PROJECT COST
TBD – Awaiting Bid

YEAR OF WORK
In Regulatory Review – Awaiting Construction

CONTACT PERSON
Judge Rudy Madrid
PO box 752, Kingsville, TX 78363
361.595.8585

APPLICABILITY TO CITY'S PROJECT
- Boat Ramp Rehabilitation/ Construction
- TPW Boating Access Grant
- Environmental Compliance

PROJECT DESCRIPTION
League City is improving their boat launch located under FM 270 as part of the Texas Parks and Wildlife Boater Access Grants. Currently, the facilities are aged and in need of rehabilitation. The ramps suffer from steep launch angles, pot holes, and insufficient length. The timber dock has loose decking and section loss to many of its structural members. The bulkhead is deteriorating and subject to scour holes at the top of the wall. LJA conducted a site inspection and survey of the League City Boat Ramp to assess the condition of the three boat ramps, docks, and bulkhead. We provided recommendations and detail design to replace the existing bulkhead, repair and extend two boat ramps, and replace one boat ramp with a more serviceable grade. We also recommended to encase the timber piles with fiberglass jackets, replace the timber decking with composite lumber, and extend the boat access dock. LJA additionally provided assistance with the development of regulatory assessments and permit preparation.

BOAT RAMP UNDER US 69 AT PINE ISLAND BAYOU

Jefferson County, TX

NAME OF TEAM LEADER
Kriton Theodoridis

DESCRIPTION OF FIRM'S ROLE
Design, Bid, and Construction Phase Services

PROJECT COST
$500,000

YEAR OF WORK
2019

CONTACT PERSON
Judge Rudy Madrid
PO box 752, Kingsville, TX 78363
361.595.8585

APPLICABILITY TO CITY'S PROJECT
- Boat Ramp Rehabilitation/ Construction
- TPW Boating Access Grant
- Environmental Compliance

PROJECT DESCRIPTION
As part of the improvements on US 69 over Pine Island Bayou at the Big Thicket National Reserve, TxDOT relocated an existing boat ramp and constructed a new paved parking area together with a new boat dock. LJA provided the detailed design for the ramp, access road, parking area, and boat dock, as well as scour protection along the bank. The dock was designed with more resilient material to reduce maintenance and consisted of steel framing, steel pipe piling, and fiberglass composite decking.

HOLIDAY MARINA PHASE I DREDGING

Van Zandt County, TX

NAME OF TEAM LEADER
Doug Dusini, PE

DESCRIPTION OF FIRM'S ROLE
Design, Bid, and Construction Phase Services, Dredged Materials Disposal, Permitting Services

PROJECT COST
$219,000 (Dredging)
$1.9M (Other Construction)

YEAR OF WORK
2020 (Dredging)
2021 (Estimated Construction Completion)

CONTACT PERSON
Sabine River Authority of Texas
Travis Williams
Asst. GM of Operations
409.746.2192

APPLICABILITY TO CITY'S PROJECT

- Geotechnical Services
- Schematic Design
- USACE Permitting
- Dredging/Excavation Plan
- Dredged Materials Disposal Management

PROJECT DESCRIPTION

The Holiday Marina Recreation Facility project is a reconstruction of a boating, marina, and parking facility. The redevelopment included six acres of parking, additional boat ramps, and recreation amenities. LJA designed, permitted, and provided bidding and construction phase services for this multi-phased project for the Sabine River Authority. LJA designed the dredging template to remove more than 4,000 cubic yards from the existing marina basin to add boat ramps and boating capacity. The design included dredging to reshape the basin slopes to allow boats to beach along the shoreline.

McFaddin National Wildlife Refuge Beach Restoration
Jefferson County, TX

E RECORD OF PERFORMANCE

E » RECORD OF PERFORMANCE

SABINE RIVER AUTHORITY MASTER PLAN

Multiple Counties in TX

NAME OF TEAM LEADER
Doug Dusini, PE

DESCRIPTION OF FIRM'S ROLE
Environmental, Permitting, Site Investigation, Engineering & Design Service

 # OF CHANGE ORDERS
None

PROJECT DESCRIPTION
The LJA team performed an Ecological Evaluation to provide a baseline of the park's ecology/habitat, development of a habitat restoration plan associated with park development, and long-term monitoring of the park's ecology to track its restoration success and progress to assist the design of the overall Masterplan, and site development for recreational use such as marina's and other aquatic recreational uses. Using an established grid system; the location, species composition, and overall health of each vegetative complex was refined with data collected in the spring/ summer of 2019. This stage of evaluation resulted in a characterization of the vegetation complexes in detail and their relative species composition as well as species dominance within the park. The evaluation criteria and data used for the characterization was derived from industry standards set by the U.S. Department of Agriculture, Forest Service, for use in uplands and the criteria set forth by the U.S. Army of Engineers Research and Development Center (ERDC) within the Hydrogeomorphic Model (HGM) accepted by the Department of Defense, Department of Interior, Department of Agriculture, Department of Transportation, and the Environmental Protection Agency as industry standard under the National Action Plan to Implement HGM for use in wetlands and other water ways. The following data was collected at each sample location: 1) number and species of trees greater than 3 inch diameter at breast height, 2) number and species of saplings less than 3 inch diameter at breast height, 3) herbaceous and shrub composition and percent cover, 4) percent canopy cover, 5) invasive species percent cover, and 6) endangered species presence/absence for Section 7 consultation. Our team prepared recommendations for habitat restoration regimes, recommended species and construction, and long-term and short term management of the resources from the data. The information is being utilized by the Sabine River Authority. This information was also used in the planning, development, and construction of the Caney Point project within the park using a Regional General Permit Section 404 Nationwide Permit in coordination with the USACE. Our Team has also performed Cultural Resource Investigation and obtained concurrence from the Texas Historical Commission to avoid impacts to protected resources.

EXAMPLES OF INNOVATIVE SOLUTIONS THAT RESULTED IN COST SAVINGS
Cost savings were based on the allocation of competent resources during the project initiation phase, tracking of actual spending vs. estimated budget throughout the project to take corrective measures ahead of time.

RESPONSIVENESS DURING CONSTRUCTION/COMMITMENT THROUGHOUT PROJECT
Routine team and client meetings were held to keep everyone informed and on track, as well as formulate strategies to resolve challenges before they impacted the success of the project.

PEGASUS BAY

Aransas County, TX

NAME OF TEAM LEADER

Natalie Davis

DESCRIPTION OF FIRM'S ROLE

Wetland Delineation, Verification, Individual Permit Application and Alternatives Analysis, Mitigation Plan Preparation, TCEQ Section 401 certification, and GLO Lease

OF CHANGE ORDERS

None

PROJECT DESCRIPTION

Ms. Davis provided the needed oversight for the wetland delineation, verification, Individual Permit Application and Alternatives Analysis, Mitigation Plan preparation, TCEQ Section 401 certification, and GLO Lease. The purposed of the approved project was to create a mixed-use marina development with direct access to the Gulf Intracoastal Waterway (GIWW) on a 46.72-acre tract that will include a marina, hotel, condominiums, retail space and single-family residential development. The marina includes a canal system with a uniform depth of-8.00 feet Mean Sea Level (MSL) and will vary in width from 100 feet at its narrowest point to 550 feet at its widest point. The project approved the mechanical dredge of 56,551 cubic yards of material from jurisdictional areas, as well as 183,585 cubic yards of material from uplands during the creation of the marina and canal. All material was placed onsite for dewatering and for utilization as construction fill material for lot development. The project also constructed 4,430 lineal feet of bulkhead within the canal. Impacts to waters of the United States (total 4.224 acres) are as follows: 1.344 acres of jurisdictional wetlands filled, 2.36 acres of jurisdictional wetlands excavated, and 0.52 acre of open water mechanically dredged. In order to compensate for the impacts to 3.704 acres of jurisdictional wetlands, 4.357 acres of wetlands was constructed on-site. The marina and canal construction were approved as compensation for impacts to Section 10 waters as they created 11.15 acres of deep water habitat.

EXAMPLES OF INNOVATIVE SOLUTIONS THAT RESULTED IN COST SAVINGS

Cost savings were based on the allocation of competent resources during the project initiation phase, tracking of actual spending vs. estimated budget throughout the project to take corrective measures ahead of time.

RESPONSIVENESS DURING CONSTRUCTION/COMMITMENT THROUGHOUT PROJECT

Routine team and client meetings were held to keep everyone informed and on track, as well as formulate strategies to resolve challenges before they impacted the success of the project.

PLEASURE ISLAND SHORELINE BREAKWATER AND BENEFICIAL USE MARSH DESIGN

Jefferson County, TX

NAME OF TEAM LEADER
Doug Dusini, PE

DESCRIPTION OF FIRM'S ROLE
Environmental and Engineering & Design Services

 # OF CHANGE ORDERS
None

PROJECT DESCRIPTION
LJA addressed ongoing erosion concerns resulting from ship traffic on the Sabine-Neches navigation channel. This CEPRA/CIAP project was designed to connect two previous shore protection projects and restore 12 acres of marsh that had been lost into the channel. The LJA Team performed a hydrodynamic analysis of ship wakes in the channel and designed the breakwater and fill placement/marsh design for this protection which also incorporates the beneficial use of previously dredged material. A ship wake driven circulation model was used to define appropriate breakwater gap width and depth to determine optimum design criteria for water circulation within the marsh without creating scour in the channels. Marsh elevation and planting criteria, considering both sea level rise and subsidence, was modeled for optimum design and environmental specifications. LJA also worked with the USACE to successfully modify an existing permit to allow for marsh creation.

EXAMPLES OF INNOVATIVE SOLUTIONS THAT RESULTED IN COST SAVINGS
Cost savings were based on the allocation of competent resources during the project initiation phase, tracking of actual spending vs. estimated budget throughout the project to take corrective measures ahead of time.

RESPONSIVENESS DURING CONSTRUCTION/COMMITMENT THROUGHOUT PROJECT
Routine team and client meetings were held to keep everyone informed and on track, as well as formulate strategies to resolve challenges before they impacted the success of the project.

CANEY POINT PHASE I DREDGING

Wood County, TX

NAME OF TEAM LEADER
Doug Dusini, PE

DESCRIPTION OF FIRM'S ROLE
Design, Bid, and Construction Phase Services, Dredged Materials Disposal, Permitting Services

 # OF CHANGE ORDERS
None

PROJECT DESCRIPTION
The Caney Point Fishing Tournament Facility is a new construction of a three-acre marina basin and boating facilities, including six acres of parking, recreation amenities, and an access road and bridge. LJA designed, permitted, and provided bidding and construction phase services for this multi-phased project for the Sabine River Authority. LJA designed the dredging template to remove more than 20,000 cubic yards from an existing cove of Lake Fork Reservoir in the creation of a fishing tournament marina basin. The design included maintaining a temporary earthen barrier between the dredged cove and the boat ramp excavation to allow concrete boat ramp construction to continue.

EXAMPLES OF INNOVATIVE SOLUTIONS THAT RESULTED IN COST SAVINGS
Cost savings were based on the allocation of competent resources during the project initiation phase, tracking of actual spending vs. estimated budget throughout the project to take corrective measures ahead of time.

RESPONSIVENESS DURING CONSTRUCTION/COMMITMENT THROUGHOUT PROJECT
Routine team and client meetings were held to keep everyone informed and on track, as well as formulate strategies to resolve challenges before they impacted the success of the project.

ISLANDS OF ROCKPORT

Aransas County, TX

NAME OF TEAM LEADER
David Sherrill

DESCRIPTION OF FIRM'S ROLE
Environmental and Engineering & Design Services

 # OF CHANGE ORDERS
None

PROJECT DESCRIPTION
The Islands of Rockport, LP purchased the 72-acre tract located east of the SH 35 and SH 188 intersection in Aransas County for the purpose of developing a waterfront canal residential subdivision. Prior to developing the property, it was determined that a permit from the USACE and a lease agreement from the Texas General Land Office would be required. The project, once constructed, will provide 142 residential lots that have direct boat access to Redfish Bay. An individual permit application was submitted to the USACE. Our staff conducted the wetland delineation for the proposed single-family residential waterfront canal development in Aransas County. Responsibilities included assessment of waters of the U.S. including wetlands in accordance with the USACE's Regional Supplement to the USACE Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (v.2) utilizing site reconnaissance, aerial photo interpretations, vegetation identification, and GPS satellite equipment. Our firm delineated eight non-tidal, freshwater wetlands totaling 13 acres, 1.5 acres of sea grasses, tidal fringe wetlands, and the Section 10 boundary. A wetland delineation was also conducted for the 35-acre off-site wetland mitigation area. We developed a cost-effective feasibility plan to restore dunes that were damaged from Hurricane Ike and constructed the new dunes using innovative construction techniques that included the use of hay bales and clay to form a base for dune reconstruction. We coordinated permit approval with the USACE and constructed the first dune swale wetland in the Gulf of Mexico region.

EXAMPLES OF INNOVATIVE SOLUTIONS THAT RESULTED IN COST SAVINGS
We developed a cost-effective feasible plan to restore dunes that were damaged from Hurricane Ike and constructed the new dunes using innovative construction techniques that included the use of hay bales and clay to form a base for dune reconstruction. We coordinated permit approval with the USACE and constructed the first dune swale wetland in the Gulf of Mexico region.

RESPONSIVENESS DURING CONSTRUCTION/COMMITMENT THROUGHOUT PROJECT
After 10 years of us monitoring and maintaining the dune and dune swale wetland areas, the USACE conducted a site visit and verified that the mitigation area had exceeded expectations.

F

COST ESTIMATES & PERFORMANCE

F » ACCURACY OF COST ESTIMATES & PERFORMANCE

ACCURACY AND DEPENDABILITY OF PROJECTED COST ESTIMATES

The LJA team is well versed in working within set budget constraints for planning, design, and implementation of projects. Project Manager (PM), Doug Dusini, and Assistant Project Manager (APM), Jay Gardner, spend a significant amount of time at the beginning of a project investigating known potential issues that could affect progress. This includes an analysis of the City's stated schedule, scope and budget. Doug and Jay will perform an evaluation of the anticipated project phasing and costs to ensure budgets are accurate. They will then present the City with an assessment of the project schedule, scope and budget and suggested revisions based upon the findings. They will perform all of this work prior to contract negotiations with the City. By doing so, LJA and the City have a good understanding of the project requirements at the time that the contract is executed and each party is in agreement on schedule, scope and budget.

SENSITIVITY AND RESPONSIVENESS TO PROJECT BUDGET CONSTRAINTS

During the preliminary phase, LJA works closely with City staff to define a detailed project scope and estimate of probable costs to accomplish the project scope. Probable costs are identified in a Technical Planning Memorandum (TPM). If probable costs per the TPM exceed original budgets, LJA will suggest reductions in scope and/or cost saving measures to reduce costs. Once City staff makes a final decision on the proposed scope and cost solutions, the City will then authorize LJA to proceed with preparation of design documents per the final scope and budget. By approaching each Project in this manner, the LJA team ensures the City is fully aware of the probable costs of the requested project at each step of the design submittal process before proceeding to final design and bidding. The following project cost estimates were for permitting only, and the Padre Balli Park Upgrades were for engineering, permitting, and construction.

PROJECT NAME	PRE-BID COST ESTIMATE	ACTUAL COST
Kaufer-Hubert Boat Ramp Facilities	$500,000	$500,000 (extra amenities added w/ cost savings)
Boat Stop Boat Ramp Facility Rehab	$410,000 (previous est.)	$375,000 (current est.)
League City Boat Ramp	n/a	TBD
Boat Ramp at Pine Island Bayou	$470,000	$500,000

MEASURES TAKEN TO ENSURE PROJECTS REMAINED WITHIN BUDGET

On all four projects, cost savings were based on the allocation of competent resources during the project initiation phase, tracking of actual spending vs. estimated budget throughout the project to take corrective measures ahead of time, and refined engineering templates for maximum benefit and reduced environmental impacts (creating self-mitigating projects).

LJA's history of compliance with programs, schedules, and budgets is best exemplified by our record of attracting repeat and ongoing business with both public and private-sector clients over the last 45+ years.

G

RESOURCES & CAPABILITIES

G » RESOURCES & CAPABILITIES

TEAM'S CAPABILITIES AND APPROACH FOR HANDLING MULTIPLE PROJECTS

Team efficiency and expertise are keys to maintaining schedules and milestones. Our team structure provides us "bench strength", and allows our team to complete similar tasks on separate projects simultaneously with confidence. This also provides us with a level of expertise to find the most efficient ways of completing tasks without sacrificing quality. Meeting the project schedule is a team effort. Communicating issues to and with the City early is imperative to maintaining the schedule and minimizing costs. If an issue or component of the project is not originally scoped, and requires our services, LJA will contact the City immediately to understand the new scope and develop innovative solutions while still maintaining the project schedule and budget. Throughout the process, the PM and APM will lead weekly, and as needed, team meetings to track schedule and milestone progress, as well as to track schedule and budget progress.

ABILITY TO DELIVER PROJECTS WITHIN SPECIFIED SCHEDULE

LJA's team leaders will work together to assign resources from the various divisions throughout our company, as needed, to ensure tasks are completed in a timely manner and within budgets. The LJA Team is fully staffed with immediate availability to perform the services required for this project. In addition, the LJA Team has the local knowledge, technical expertise, and staff resources with experience in similar projects. LJA will take an aggressive attitude toward project scheduling by identifying potential bottlenecks and developing innovative ways to keep the project on track.

Key staff for this project are available and committed to perform their assigned roles, and will make the appropriate time commitment to ensure the successful completion of the project within the City's schedule. We carefully assess our project workload before committing to any project and make necessary adjustments to accommodate the demands for manpower or resources anticipated for successful project completion. The collective team assembled for this project anticipates no difficulty meeting schedule requirements. The following projects and estimated completion dates were for permitting components only. Dune permits are good for 3 years, and some clients elected to delay construction after permitting for whatever reason.

PROJECT NAME	ESTIMATED COMPLETION	ACTUAL COMPLETION
Kaufer-Hubert Boat Ramp Facilities	2019	2019
Boat Stop Boat Ramp Facility Rehab	2022	Ongoing
League City Boat Ramp	2022	Ongoing
Boat Ramp at Pine Island Bayou	2019	2019

CONTINGENCY PLAN

PM Dusini and APM Gardner are experienced in and responsible for managing tasks and resources amongst all team members, while simultaneously tackling any unforeseen circumstances that may arise. They will closely monitor the availability of resources throughout the project and act quickly to counterbalance any shifts in manpower or resources that could impede progress. Should there be a need for additional manpower, LJA has the vast resources of a 1,300-person firm to call upon.

LJA has an extensive, local, and available team ready to serve the City of South Padre Island.

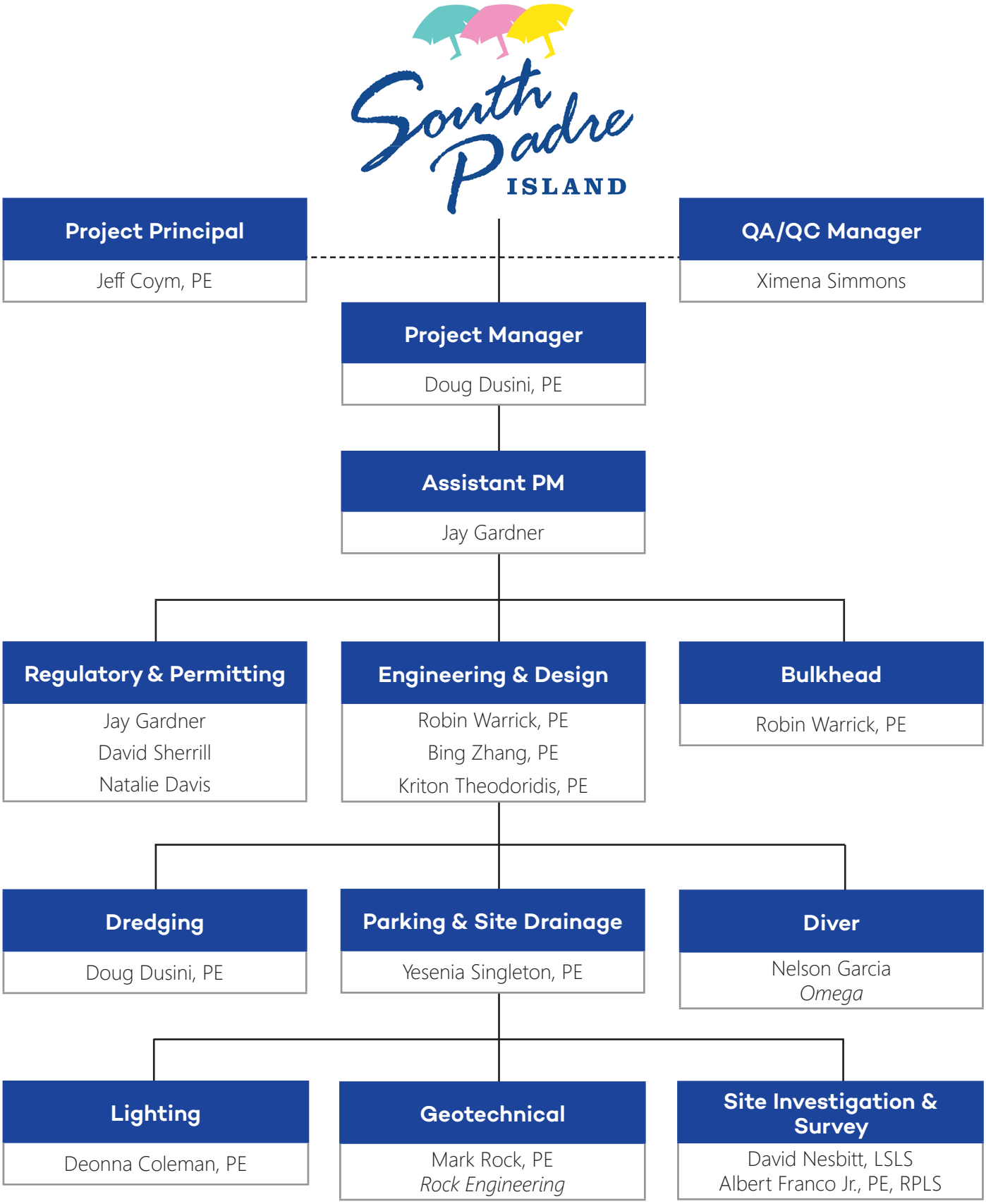
Islands of Rockport
Aransas County, TX

H

PROJECT APPROACH

H » PROJECT APPROACH

TEAM STRUCTURE/ORGANIZATION



PROJECT MANAGEMENT APPROACH

LJA's project management standards ensure that by working closely with clients, and approaching the project in an all-inclusive manner, accurate timelines and budgets are generated to guide the project through the conception-permitting-design-bid-construction process. The LJA team will work closely with City Staff and City Council at the start of the project to develop a comprehensive scope while identifying specific tasks and resource usage for schedule and project budget estimation. Schedulers, in consultation with the Project Manager, will identify critical-path elements to anticipate and avoid potential bottlenecks that may influence timely project execution, and work proactively to minimize any effect.

Our proven project management approach has consistently delivered solid performances as a result of the following key elements:

- Streamlined, efficient program management
- Local/regional project management and execution with experienced personnel from local offices
- Deep bench of technical specialists armed with experience on key technical and regulatory challenges
- Program management infrastructure for efficient schedule/cost management, cost reporting, QA/QC, health and safety contracts/procurement, and regulatory support
- Consistent project execution, reporting, and deliverable preparation
- Established project planning/execution process

Tasks are distributed and progress is tracked across all members of the project team to ensure successful completion. The project manager tracks the usage of budget dollars and resource hours to ensure the significant resources of the project delivery team are being directed in the most productive manner. Owner consultations at multiple stages of the project, as well as a rigorous QA/QC process, ensures the end result exceeds client quality standards.

PROJECT MANAGEMENT PLAN

During a project, LJA's Project Managers will be available 24/7.They will attend meetings with all parties involved to ensure projects are on schedule and any issues are resolved promptly. In coordination with the City, LJA's PM will develop a Project Management Plan (PMP) immediately after receiving Notice to Proceed (NTP).

The PMP will establish:

Communication procedures between LJA and the City

Kick-off meeting between LJA and the City

Email communication protocols to track project progress

Schedule of project progress meetings

QA/QC policies and procedures

File plan, CADD guidelines, design manuals, software

Team members will receive a copy of the PMP so that everyone understands their responsibility and the responsibilities of the other Team members. Proper coordination and information exchange between the LJA Team and the City will be closely tied to the PMP and communication protocols established therein. This greatly increases the quality of a final product, and minimizes conflicts during construction.

With adequate resources, you can count on LJA's ability to accelerate project schedules and handle multiple assignments while remaining within budget to ensure the City's intent will be met.

OVERVIEW OF PROJECT APPROACH

PROJECT MANAGEMENT

- Confirm project objectives as identified by the City (Owner)
- Coordinate with State and Local jurisdictions/agencies

Typical milestone activities/work products:

- » Kickoff meeting/notes and site visit
- » Develop project goals and performance criteria/memo of project understanding
- » Project management/monthly activity summary/schedule updates
- » Meet with City Council and City Staff

SURVEY AND DATA COLLECTION

- Confirm project objectives as identified by the Owner
- Perform historical review and initial constructability/value engineering analysis and design
- Complete assessments and surveys, as required
- Perform structural inspection on elements intended for reuse

CRITERIA AND DESIGN DEVELOPMENT

- Confirm project objectives as identified by the Owner
- Select Criteria for Evaluation Matrix
- Coordinate with City Staff, City Council, and the Shoreline Task Force to define required components
- Research manufacturers
- Review flood and windstorm certificates of manufacturers
- Select a manufacturer with staff and team
- Contact manufacturers and local contractors

REGULATORY SUPPORT

- Confirm project objectives as identified by the Owner
- Confirm with Owner applicable permits are in place or are being obtained

FINAL ENGINEERING AND PREPARATION OF CONSTRUCTION DOCUMENTS

- Confirm project objectives as identified by the Owner
- Develop detailed design drawings
- Review project plans and specs
- Obtain Owner/stakeholder approval of plans

BID AND CONSTRUCTION PHASE SERVICES

- Assist the Owner to procure a qualified contractor
- Perform construction oversight (e.g. drawing and technical specification interpretation, site visits)
- Substantial completion tasks (e.g. inspection, punch list, etc.)

Typical milestone activities/work products:

- » Bid phase calendar and bid announcement
- » Pre-bid conference participation and documentation
- » Addenda and responses to Requests for Information
- » Participation in bid evaluation and selection process as directed by Owner
- » Coordination/correspondence with Owner and prospective contractor leading to contract execution
- » Construction kick-off meeting and documentation
- » Field notes taken from project oversight activities/construction progress reports
- » Disposition of contractor submittals, change order requests, and pay apps

PROJECT CLOSEOUT SERVICES

- Assist the Owner to ensure contractor completes all specified work
- Close out tasks (e.g. as-built drawings, final contractor submittals/invoices, final project management)

Typical milestone activities/work products:

- » Acceptance of contractor as-built drawings
- » Certificate of Substantial Completion/ Certificate of Construction Completion/Windstorm Certificate
- » Construction contract close-out documentation

QUALITY ASSURANCE/QUALITY CONTROL PROCESS

LJA's in-house procedures provide for a structured project management and quality assurance program from project initiation through final deliverables. Each project or task order commences with a project kick-off meeting to effectively communicate project goals, schedules, assignments, deliverables and expectations to each member of the project team. As projects advance, weekly internal meetings are held to track progress, address challenges, and update assignments to ensure continuity of progress and head off any potential stumbling blocks.

In addition to internal project team meetings, senior project managers meet regularly to review workloads of shared resources to ensure adequate staff are always available to each task of every project. For each project, LJA provides regularly scheduled updates and project specific progress reports to our clients. According to the schedule and preferences of the client, progress reports are typically delivered in progress meetings to allow the clients to comment and communicate any questions, concerns or changes they feel are needed in the most efficient and open manner possible.

QUALITY ASSURANCE

In specific terms, LJA assures unsurpassed project quality through our **TIME** process of four internal review steps:

- **T** **Team reviews** will be performed on an internal, on-going, peer review process within each discipline.
- **I** **Interdisciplinary reviews** will be performed across discipline by task leaders to ensure continuity of the final product through each facet of the project.
- **M** **Milestone reviews** will be performed by an independent team at each deliverable milestone to validate continuity across the entire project, evaluate constructibility, and validate construction budgets/schedules.
- **E** **Environmental compliance reviews** will provide assurance that all environmental commitments are met and permitting requirements are appropriately addressed in the project.

Tracking of plans routing through the internal review process will be maintained with a review stamp on plan sheets or by a transmittal cover sheet to document each reviewers' initials and date of comments or approval.

Upon completion of the internal **TIME** process, plans will be submitted to the client for their reviews. If any client review produces comments, a comment resolution meeting will occur to determine the best resolution and those decisions will be "red lined" in to the plans for modification. Proposed designs will then be updated per the red lined documents. Documentation of all reviews and the comments (both internal and by clients) will be retained by the QA/QC Manager.

The implementation of the **TIME** process is designed to ensure reviews are completed, comments are addressed, and a record of the process is maintained. In addition to the Quality Assurance procedures, LJA incorporates Quality Control measures through our project Coordination Plan, Critical Path Scheduling, and Design Budget Monitoring procedures.

CRITICAL PATH SCHEDULE

A Critical Path Schedule (CPS) will be developed for every work authorization assigned by the client. The schedule will be created using Microsoft Project, an industry standard, resource loaded, critical path schedule software. The schedule will include all the steps from NTP through the final deliverables of the project.

DESIGN BUDGET MONITORING

To monitor progress and allow for schedule recovery to be implemented in a timely manner, a tracking system in LJA's InFocus software and backed-up with a Microsoft Excel spreadsheet will be used. This redundant system will ensure the process is followed closely. We track the progress of the assignment against the cumulative project expenditures to ensure that the project remains within the time and cost constraints established during the scope and fee process. The percent complete will be determined by assessing progress at the sub-task levels and calculating an overall percent complete for the project. The tasks will include any subconsultant tasks as well to ensure that the entire LJA Team is on-time and on-budget.

LJA's PMP, detailed communication and documentation protocols with the City, and tried and true QA/QC program have been used successfully on hundreds of projects over the years. All team members will be required to understand, sign, and use these processes.

PROPOSED PROJECT SCHEDULE

TASK	ESTIMATED DURATION OF ACTIVITY IN MONTHS											
	1	2	3	4	5	6	7	8	9	10	11	12
Project Management	■	■	■	■	■	■	■	■	■	■	■	■
Data Collection	■											
Analysis of data/ Reporting		■										
Design Review (30%)			■									
Regulatory Coordination	■	■	■	■	■							
Design Review 90%				■	■							
Bid & Construction Phase Services						■	■	■	■	■		
Project Closeout											■	

We appreciate the opportunity to present our qualifications and look forward to bringing our experience and expertise to the City of South Padre Island.

LJA is positioned and ready to provide the professional environmental and engineering services that will move the City's projects forward.

Multi-Use Recreational Facility at Caney Point
Wood County, TX

I STANDARD FORM AGREEMENT COMMENTS

EXCEPTIONS LIST TO THE CITY OF SOUTH PADRE ISLAND
REQUEST FOR QUALIFICATIONS

1. Please modify Article X *Warranty, Indemnification & Release*, Section 10.05 as follows:

   10.05 Indemnity. To the fullest extent permitted by law, the Consultant agrees to indemnify, defend, and hold harmless the City, Consultant agrees to indemnify and hold harmless the City, its Council members, officers, agents, employees and volunteers (separately and collectively referred to in this paragraph as "Indemnitee") from and against all claims, damages, losses and expenses including but not limited to **reasonable** attorneys' fees arising out of or resulting from any negligent act, error, omission, intentional tort or willful misconduct, intellectual property infringement or including failure to pay a subconsultant, subcontractor, or supplier pursuant to the agreement by Consultant, its employees, subcontractors, subconsultants, or others for whom Consultant may be legally liable ("Consultant Parties"), but only to the extent caused in whole or in part by the Consultant Parties. IF THE CLAIMS, ETC. ARE CAUSE IN PART BY CONSULTANT PARTIES, AND ALSO IN PART BY THE NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY OR ALL OF THE INDEMNITEES OR ANY OTHER THIRD PARTY, THEN CONSULTANT SHALL ONLY INDEMNIFY ON A COMPARITIVE BASES, AND ONLY FOR THE AMOUNT FOR WHICH THE CONSULTANT PARTIES ARE FOUND LIABLE AND NOT FOR ANY AMOUNT FOR WHICH ANY OR ALL INDEMNITEES OR OTHER THIRD PARTIES ARE LIABLE. **THE DEFENSE OBLIGATION DOES NOT APPLY TO PROFESSIONAL LIABILITY OR WORKERS' COMPENSATION CLAIMS. AS IT RELATES TO SUCH CLAIMS, CONSULTANT SHALL BE LIABLE FOR REASONABLE DEFENSE COSTS INCURRED BY CITY, BUT ONLY AFTER FINAL ADJUDICATION AND ONLY TO THE EXTENT THAT CONSULTANT IS FOUND AT FAULT.**

   Explanation: (1) The Texas Civil Practice And Remedies Code provides for the recovery of reasonable attorney's fees for rendered services. (2) LJA's professional liability and workers comp policies provide no defense of third parties, and therefore, regardless of whether Consultant is required to defend the City for professional negligence claims, we are not insured to provide such a defense. However, we can be liable for (and reimburse) those defense costs to the extent that we are liable.

2. Please modify Article X *Warranty, Indemnification & Release*, Section 10.06 as follows:

   Release. The Consultant releases, relinquishes, and discharges the City, its Council members, officials, officers, agents, employees and volunteers from all claims, demands, and causes of action of every kind and character, including the cost of defense thereof, for any injury to, sickness or death of the Consultant or its employees and any loss of or damage to any property of the Consultant or its employees **to the extent** ~~**that is**~~ caused by or ~~**alleged to be caused by**~~**,** **arising** ~~**arises**~~ out of, or is in connection with the Consultant's work to be performed hereunder. Both the City and the Consultant expressly intend that this release shall apply regardless of whether said claims, demands, and causes of action are covered, in whole or in part, by insurance**.** ~~**and in the event of injury, sickness, death, loss, or damage suffered by the Consultant or its employees, but not otherwise, this release shall apply regardless of whether such loss, damage, injury, or death was caused in whole or in part by the City, any other party released hereunder, the Consultant, or any third party.**~~

   Explanation: (1) We are insured to be responsible for negligent acts or omissions to the extent of our fault in accordance with the law and the text should clearly identify that the release pertains to the Consultant's services. (2) The original text would have LJA release the client for the client's own negligence. Such provisions are void and unenforceable under State law.

3. Please add the following information for the Consultant in Article XIV *Miscellaneous Terms*, Section 14.02:

   Consultant:

   LJA Engineering, Inc.

Attn: Doug Dusini
3600 W Sam Houston Pkwy S, Suite 600
Houston, Texas 77042

EXCEPTIONS LIST TO EXHIBIT C
INSURANCE REQUIREMENTS

1. Please modify Section III *General Requirements Applicable to All Policies*, subpart D as follows:

   Coverage shall not be ~~**suspended, voided,**~~ canceled, or **not renewed** ~~**reduced in coverage or in limits**~~ except after thirty (30) calendar days prior written notice has been given to the City of South Padre Island.

   Explanation: Certificates of insurance can provide for notification in the event of cancellation, non-renewal, and cancellation for non-payment. There is no such notice of suspension, voided, or reduced in coverage or in limits.

2. Please modify Section VII *Professional Liability requirements*, subpart B as follows:

   Minimum of $1,000,000 per claim and $2,000,000 aggregate, with a maximum deductible of $**400,000.00** ~~100,000.00~~.

   Explanation: LJA's current professional liability policy deductible is $400,000, which is the industry norm for firms of our size. The insurance industry is constantly shifting and LJA cannot guarantee that the deductible for this specific policy will not be impacted because of changes in the market. Also, a deductible obligation is between the insured and the insurance company, and any failure to meet a deductible would not "stop" the insurer from paying a claim, but would simply reduce the limits available.

CERTIFICATION FORM/LITIGATION »

CERTIFICATION and ACKNOWLEDGMENT

The undersigned affirms that they are duly authorized to submit this Proposal, that this Proposal has not been prepared in collusion with any other Respondent, and that the contents of this Proposal have not been communicated to any other Respondent prior to the official opening. To the extent this Contract is considered a Contract for goods or services subject to § 2270.002 Texas Government Code, Respondent certifies that it: i) does not boycott Israel; and ii) will not boycott Israel during the term of the Agreement.

Signed By: _____ Title: Vice President

Typed Name: Jeff Coym, PE Company Name: LJA Engineering, Inc.

Phone No.: 361.991.8550 Fax No.: 361.993.7569

Email: jcoym@lja.com

Bid Address:	5350 South Staples St, Suite 425	Corpus Christi	TX	78411
	P.O. Box or Street	City	State	Zip
Order Address:	5350 South Staples St, Suite 425	Corpus Christi	TX	78411
	P.O. Box or Street	City	State	Zip
Remit Address:	5350 South Staples St, Suite 425	Corpus Christi	TX	78411
	P.O. Box or Street	City	State	Zip

Federal Tax ID No.: 76-0540328

DUNS No.: 025475513

Date: 11/24/2021