

DOTD FORM: 24-102

(Revised January 1, 2023)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

1. Contract Name as shown in the advertisement	IDIQ Contract for Professional Hydrographic Surveying Services Statewide with Majority of Work in Districts 02, 03, 07, 61, and 62
2. Contract Number(s) as shown in the advertisement	4400027686
3. State Project Number(s), if shown in the advertisement	
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	Fugro USA Land, Inc.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	Fugro USA Land, Inc. VF.0000794(Land Survey Firm)
6. Prime consultant mailing address	226 Dulles Drive, LA 70506
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	226 Dulles Drive, LA 70506
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Greg Spiller, PE Commercial Manager g.spiller@fugro.com 337.268.3336
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Greg Spiller, PE Commercial Manager g.spiller@fugro.com 337.268.3336

Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.



Signature above shall be the same person listed in Section 9:

Date: September 12, 2023

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

Firm(s):
N/A

Firm(s)' %:

12. Past Performance Evaluation Discipline Table:

As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract.

The **only** past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

<p>Sub-consultants are not allowed to be used for this proposal. Fill in the table by identifying only those evaluation disciplines consistent with the approach and methodology proposed in Section 18 of the DOTD Form 24-102*, and the percentage of work in each past performance evaluation discipline to be performed. The percentage estimated for each evaluation discipline is for evaluation purposes only and will not control the actual performance or payment of the work. (Add rows as needed)</p>	
Past Performance Evaluation Discipline(s)	% of Overall Contract
Survey	100%

13. Firm Size:

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify “Other (please specify)” and include the classification title inside the parentheses.

The DOTD Job Classification(s) to be used can be found at the following link:

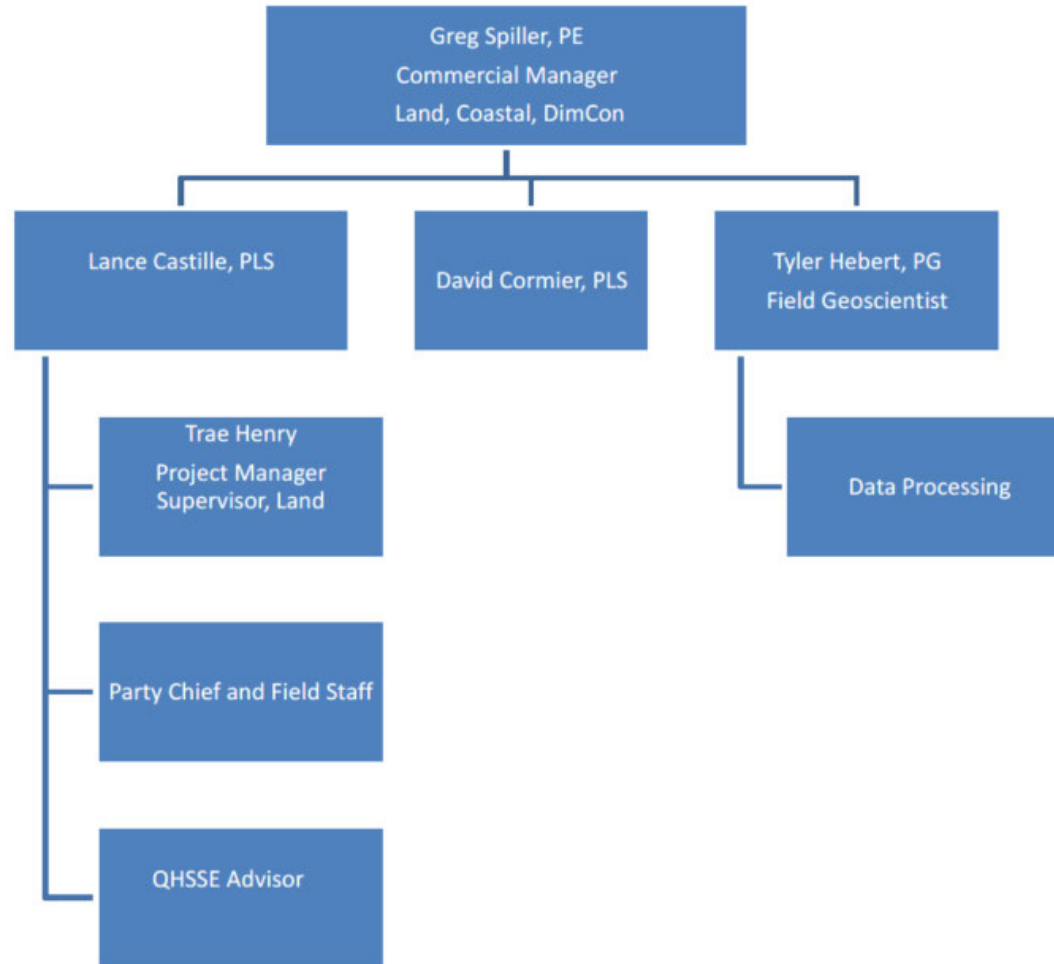
http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Fugro	Accountant	1	1
Fugro	Land Surveyor	8	8
Fugro	Administrative	2	2
Fugro	CADD-Operator	2	2
Fugro	GIS Analyst	2	2
Fugro	Geologist	2	2
Fugro	Hydrographic Surveyor	1	2
Fugro	Project Managers	5	1
Fugro	Principal	1	1
Fugro	Senior Technician	1	1
Fugro	Technician	1	1

(Add rows as needed)

14. Organizational Chart:

Provide an organizational chart showing ALL **relevant** prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual’s role does not necessarily have to match their DOTD job classification identified in Section 13. **If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name. Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20.** It is acceptable to use an 11x17 format for Section 14.



15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. **Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.**

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	David Cormier	Fugro	PLS 4715	LA	4715/ exp 2024
2	Lance Castille	Fugro	PLS 5295	LA	5295/ exp 2025
3	Greg Spiller	Fugro	PE	LA	45834/ exp 2024
4	Tyler Hebert	Fugro	PG	LA	1364 / exp 2024

16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be **limited to 2 pages per person**. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by Fugro USA Land, Inc.				
Name	Greg Spiller, PE		Years of relevant experience with this employer	11
Title	Commercial Manager, Land, DimCon & Coastal		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		Bachelor of Science Degree, Industrial Engineering; Master of Business Administration		
Active registration number / state / expiration date		LA 45834 / expires 03/31/2024		
Year registered		Discipline	PE / Industrial Engineer	
Contract role(s) / brief description of responsibilities		His experience includes: PE certified Industrial Engineer. He is experienced in all aspects of project management including cost accounting, as well as operations management. Adept at identifying opportunities for developing and empowering personnel to increase productivity and job satisfaction. Always cost-conscious and analytical with history of successful project management.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
2020 - Ongoing	CPRA Survey IDIQ Mr. Spiller has served as an Operations and Quality Manager for this program which has included two separate contract awards each with multiple task orders for marsh creation and coastal protection projects in Louisiana. In Mr. Spiller’s role he has overseen survey activities.			
2014 - Ongoing	Moffatt & Nichol – Increase Atchafalaya Flow into Terrebonne Basin Terrebonne Parish, LA. Project Manager. Mr. Spiller was responsible for project management overseeing all collection and delivery of the topographic RTK, single-beam bathymetric, and multibeam bathymetric surveys performed as part of this project.			
2017 – 2019	Coastal Protection and Restoration Authority – Bayou Dupont Marsh and Ridge Creation Jefferson Parish, LA. Project Manager. Mr. Spiller’s responsibility included overseeing field collection and ensuring accurate and timely delivery of the deliverables.			
2021-2022	Coastal Protection and Restoration Authority of Louisiana – CRMS Elevation Update Orleans Parish, LA. Project Manager. Mr. Spiller has overseen all RTK data for the project and processing using GIS applications to perform point and database management.			

■. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be **limited to 2 pages per person**. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by Fugro USA Land, Inc.				
Name	Trae Henry, CST-II		Years of relevant experience with this employer	16
Title	Project Manager Supervisor		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		AD, 2005 – Administrative Management		
Active registration number / state / expiration date		N/A		
Year registered		Discipline	N/A	
Contract role(s) / brief description of responsibilities		Mr. Henry will serve as the Project Manager Supervisor for this contract. He will work with the Project Manager in managing and assigning daily field activities to ensure conformity to the scope of work.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
04/19 – 11/19	Sabine-Neches Navigation District – Sabine-Neches Channel Improvement Gulf of Mexico & Sabine-Neches Channel, LA & TX. <i>Field Operations Manager.</i> As the Field Operations Manager, Mr. Henry has been responsible for assigning field personnel to the project, overseeing the installation of equipment to the survey vessel, and providing technical guidance throughout the field collection effort.			
01/19 – 04/19	Sempra North American Infrastructure – Port Arthur LNG West Port Arthur, TX. <i>Field Operations Manager.</i> Mr. Henry was responsible for ensuring that all field personnel were properly trained in surveying and safety, and that they had the necessary clearances to access the project site. He oversaw the field collection processes to ensure data quality.			
2018	Freeport Harbor Levee Stabilization and Wave Barrier Relocation Freeport, TX. <i>Party Chief.</i> He was responsible for assigning field personnel to the project, overseeing the installation of equipment to the survey vessel, and providing technical guidance throughout the field collection effort.			

Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be **limited to 2 pages per person**. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by Fugro USA Land, Inc.			
Name	Lance Castille, PLS		Years of relevant experience with this employer
Title	PLS, Project Manager		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		BS, 2019 – IT(GIS) / AD, 2009 - Surveying	
Active registration number / state / expiration date		5295 / expires 2025	
Year registered	2022	Discipline	Professional Land Surveyor
Contract role(s) / brief description of responsibilities		He manages complex projects throughout the full project life cycle and has worked on coastal, lidar, and oil and gas projects. Mr. Castille is experienced in integrating supplied data with available GIS/CAD base data.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/17 – 11/19	Coastal Engineering Consultants, Inc. for CPRA – West Grand Terre Beach Nourishment and Stabilization Jefferson Parish, LA. <i>Survey Analyst.</i> Mr. Castille processed all RTK data for the project and used GIS applications to perform point and database management. Project elements included a topographic RTK survey, a lidar survey, a single beam echosounder bathymetric survey, and a magnetometer survey.		
10/19 – 12/19	Coastal Protection and Restoration Authority of Louisiana – St. Catherine Marsh Creation Orleans Parish, LA. <i>Survey Analyst.</i> Mr. Castille processed all RTK data for the project and used GIS applications to perform point and database management.		

■ Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be **limited to 2 pages per person**. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by Fugro USA Land, Inc.				
Name	David Cormier, PLS		Years of relevant experience with this employer	5
Title	Technical manager		Years of relevant experience with other employer(s)	40
Degree(s) / Years / Specialization		AD, 1984 – Civil Engineering Technology		
Active registration number / state / expiration date		LA PLS 4715 – Expires 2024		
Year registered	1994	Discipline	Professional Land Surveyor	
Contract role(s) / brief description of responsibilities		Mr. Cormier will serve as Operations Manager and as Professional Land Surveyor under this contract. He has overall responsibility for field and processing operations. He will be responsible for certifying any positioning or conventional land surveying work conducted under this contract. He is experienced in preparing plats for well locations and Permit to Drill Plats as well as preparing plats for pipeline, roadway, and waterway crossings.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/19 – 12/19	Coastal Protection and Restoration Authority – Mid-Breton Land Bridge Marsh Creation and Terracing Plaquemines Parish and St. Bernard Parish, LA. Professional Land Surveyor. Mr. Cormier has recently contributed to Fugro’s support of CPRA while providing technical oversight over our methods used on the recently executed Mid-Breton Landbridge project. This survey required the integration of several elevation and geophysical datasets to ensure the site was properly characterized prior to completing the final planning and design templates.			
0/19-12/19	Coastal Protection and Restoration Authority – St. Catherine Island Marsh Creation and Shoreline Protection Orleans Parish, LA. Terrestrial Operations Manager/Professional Land Surveyor. Mr. Cormier, as the Professional Land Surveyor for this project, certified the survey report and drawings required for this project and provided professional oversight.			
2019	LADOTD – Over 330 checkpoints and ground control points surveyed			

Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be **limited to 2 pages per person**. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by Fugro USA Land, Inc.			
Name	Tyler Hebert, PG		Years of relevant experience with this employer
Title	Project Geoscientist		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		MS, 2019 – Geology; BS, 2015 - Geology	
Active registration number / state / expiration date		1364 / expires 2024	
Year registered	2021	Discipline	PG
Contract role(s) / brief description of responsibilities		Mr. Hebert has experience in the collection, processing, and interpretation of single beam and multibeam, sidescan sonar, magnetometer, and sub-bottom profiler data. He then compiles data to generate maps for delivery. His office responsibilities also include creating workflows and analytic tools to use within geophysical software to ensure that processing is performed efficiently and at a high-quality level.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
05/19 – 12/19	Coastal Protection and Restoration Authority – Mid-Breton Land Bridge Marsh Creation and Terracing Plaquemines Parish and St. Bernard Parish, LA. Geoscientist. Mr. Hebert assisted in the collection of multibeam bathymetric, magnetic, sidescan sonar, sub-bottom profiler data to complete a geophysical survey for the project. He was also involved in the processing of magnetic, sidescan sonar, and sub bottom data to complete maps for the client.		
3/17 – 3/19	Chustz Surveying, Inc. for CPRA – New Orleans Landbridge Shoreline Stabilization and Marsh Creation Orleans Parish, LA. Geoscientist. On the most recent iteration of this project, Mr. Hebert assisted with the processing of geophysical data.		
08/18 – 01/19	HDR Engineering, Inc. – Georgia Pacific Port Hudson Outfall Port Hudson, LA. Geoscientist. Mr. Hebert assisted with data processing for this project. His focus was on producing sidescan sonar mosaics and interpreting the data to identify contacts, and interpreting magnetometer data to identify potential hazards.		
09/18 – 09-19	Massman Construction Company – Columbia Lock and Dam Columbia, LA. Geoscientist. Mr. Hebert has assisted in field operations and in survey data interpretation for this survey effort which includes multibeam and deformation surveys.		

Firm Experience:

Identify the team's project experience **most relevant** to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	Entergy	Past Performance Evaluation Discipline(s)*	** Survey
Project name	SLP Plat Development and Level C Sue		Firm responsibility (prime or sub?) Prime
Project number		Owner's name	
Project location	Vermilion Parish, LA	Owner's Project Manager	Preston Maronge
Owner's address, phone, email	8585 Pecue Lane, Baton Rouge, LA 70810; pmaronge@entergy.com		
Services commenced by this firm (mm/yy)	01/2020	Total consultant contract cost (\$1,000's)	
Services completed by this firm (mm/yy)	10/2020	Cost of consultant services provided by this firm (\$1,000's)	\$312k

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Fugro conducted this project of a 20-mile transmission line. The company conducted a limited boundary survey, and provided ROW easement plans with legal descriptions for approximately 150 tracts. All underground utility markers that encompassed the proposed transmission line 12' wide ROW were provided. Also shown were all drainage ditches, culverts catch basins, etc., including size, length, elevations and flowlines for all drainage structures included within the proposed transmission line 125' wide ROW.

Key Project Elements:

- Topographic Survey
- Subsurface utility Engineering (SUE) quality Level C
- Boundary survey
- ROW
- Preparation of deliverables of plats and legal descriptions as developed from the field.

Key Staff: David Cormier, Trae Henry

* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

This field cannot be left blank and N/A is not acceptable. The **only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

Firm name	Georgia Pacific	Past Performance Evaluation Discipline(s)*	** Survey
Project name	Port Hudson Outfall	Firm responsibility (prime or sub?)	Sub
Project number		Owner's name	
Project location	Port Hudson, Louisiana	Owner's Project Manager	Roger Kaminski
Owner's address, phone, email	P.O. Box 19130 Green Bay, WI 54307; 920.438.2198; roger.kaminski@gapac.com		
Services commenced by this firm (mm/yy)	08/18	Total consultant contract cost (\$1,000's)	
Services completed by this firm (mm/yy)	01/19	Cost of consultant services provided by this firm (\$1,000's)	\$63k

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Fugro conducted a hydrographic and geophysical survey that encompassed the areas immediately adjacent to the landing of an outfall pipe flowing into the Mississippi River. The purpose of the survey was to characterize existing river bottom conditions and identify potential obstructions of significant size that may adversely affect operations during construction. Additionally, data were collected in the upland areas of the pipeline terminus to characterize the corridor and shoreline. The survey utilized several different survey techniques to map the river bottom, upland topography and sub-surface.

A multibeam survey was conducted in the river to obtain high-quality, high-resolution water depth measurements and develop an elevation model of the river bottom that could be used to identify large obstructions. Sidescan sonar was used to identify and characterize obstructions exposed at the riverbed. A magnetometer survey was performed to identify and locate ferrous or metallic objects on the riverbed or shallowly buried beneath the riverbed. A CHIRP (sub-bottom profiler) seismic reflection survey was conducted to identify large, buried objects and interpret shallow sub-bottom stratigraphic conditions.

Key Project Elements:

- Multibeam bathymetry survey
- Sidescan sonar survey
- Sub-bottom seismic survey
- Marine and land magnetometer survey
- Aerial lidar and orthoimagery survey
- Topographic survey

Key Staff: David Cormier, Greg Spiller

Firm name	LyondellBasell	Past Performance Evaluation Discipline(s)*	** Survey
Project name	Channelview facility	Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	Jared Boudreaux
Project location	Channelview, Texas	Owner's Project Manager	
Owner's address, phone, email	17042 Texas 60, Bay City, TX 77414		
Services commenced by this firm (mm/yy)	01/19	Total consultant contract cost (\$1,000's)	
Services completed by this firm (mm/yy)	12/19	Cost of consultant services provided by this firm (\$1,000's)	\$325,

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Fugro was contracted by LyondellBasell to provide a preliminary topographic survey of a 990-acre greenfield site adjacent to the existing Channelview facility. Fugro aided in the design of the subgrade and civil engineering required to expand the Polypropylene and Propane Dehydration units by providing a complete topographic and underground utility location survey. This project presented many challenges due to the heavily wooded and densely vegetated greenfield site.

Fugro provided a superior survey solution safely by utilizing our proprietary FLIMAP® Lidar Photogrammetry system to collect data over the existing site and combined this data with an extensive topographic ground and subsurface utility survey. This combined survey effort was analyzed and digitized to provide various data files to aid in the engineering of the proposed project. Fugro also provided a complete ALTA boundary survey of the newly acquired tract that included a 100-year title research effort and a gradient boundary survey as the newly acquired tract of land which borders the San Jacinto River.

Key Project Elements:

Lidar survey
 Topographic survey
 ALTA boundary survey
 Underground utilities survey SUE Level B
 Geotechnical survey support for bore and CPT locations

Key Staff:

David Cormier, Trae Henry

■ Firm name	Entergy	Past Performance Evaluation Discipline(s)*	** Survey
Project name	Cecilia Substation	Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	
Project location	Cecilia, LA (St. Martin Parish)	Owner's Project Manager	Preston Maronge
Owner's address, phone, email	8585 Pecue Lane, Baton Rouge, LA 70810; pmaronge@entergy.com		
Services commenced by this firm (mm/yy)	05/20	Total consultant contract cost (\$1,000's)	
Services completed by this firm (mm/yy)	08/20	Cost of consultant services provided by this firm (\$1,000's)	\$41k

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Fugro conducted this project and tied in all property lines and corners. AutoCAD drawings of the survey were supplied as well as pdf plot of the survey. All drainage ditches, culverts catch basins, etc., were shown including size, length, invert elevations and flowlines for all drainage structures.

Key Project Elements:

- Topographic Survey
- Subsurface Utility Engineering (SUE) quality Level C
- Boundary survey

Key Staff:

David Cormier, Trae Henry

█ Firm name	Moffatt & Nichol	Past Performance Evaluation Discipline(s)*	** Survey
Project name	Upper Barataria Marsh Creation	Firm responsibility (prime or sub?)	Sub
Project number		Owner's name	
Project location	Plaquemines Parish, LA	Owner's Project Manager	Chris Williams
Owner's address, phone, email	301 Main St., Suite 800, Baton Rouge, LA 70801; 225.336.2075		
Services commenced by this firm (mm/yy)	02/19	Total consultant contract cost (\$1,000's)	\$935k
Services completed by this firm (mm/yy)	02/20	Cost of consultant services provided by this firm (\$1,000's)	\$40k

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

The U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA)-National Marine Fisheries Service (NMFS), in coordination with the Louisiana Coastal Protection and Restoration Authority (CPRA), is developing selected restoration projects in the Barataria system in southeast Louisiana. CPRA prioritized a marsh creation area, designated the Upper Barataria Marsh Creation Area, as part of the 2017 Coastal Management Plan. The objective of the Upper Barataria Marsh Creation Project is to create and restore an estimated 1,300 acres of brackish marsh south of "The Pen" in Jefferson Parish, Louisiana. Fugro's scope includes topographic surveying, hydrographic surveying, geophysical surveying, hazard analysis and mitigation, and reporting.

Key Staff:

Greg Spiller, David Cormier

SECTION 18

Approach and Methodology:

Provide a description of how the work will be performed and provide the proposed project schedule. Include any additional information or description of unique resources that are planned to be used to produce the deliverables. Include any proprietary technologies, methods or approaches that will be used on this project to improve quality or efficiency. If the proposal is for an IDIQ contract, the consultant should review the scope of services in Attachment A to the advertisement to obtain a general understanding of what a typical task order would entail. Based upon that understanding, the consultant should provide a sample schedule that identifies the major milestones, deliverables, tasks, etc., to demonstrate sufficient understanding of a typical task order. The duration of the task order is not required. This section shall be limited to four pages. **If more than four pages are included, all pages after the fourth page will not be evaluated.**

If the consultant has information it believes is proprietary, label it accordingly.

Company Profile

Fugro is an internationally acclaimed consulting firm that specializes in the provision of technical data and information required to design, construct and main large structures and infrastructure in a safe, reliable and efficient manner.

As a global company with approximately 10,000 employees in sixty countries, we work as One Fugro to provide the best workable solutions for our clients. We support our clients in managing their projects in a sustainable, smart and cost-effective way.

Fugro's expertise is complemented by unique advantages:

- Experience gained from successful completion of numerous survey projects.
- Ample resources and capacity to complete the project by the required deadline.
- Proven track record of innovation in surveying and mapping.

We collect data on topography, soil composition and environmental conditions, both on and offshore. We organize the acquired data and add value through processing, interpretation and visualization. Fugro's expertise is complemented by unique advantages:

LOCATION

Fugro's primary office that will support this contract is located in Lafayette, Louisiana. We have excellent knowledge and familiarity of the land and waterways within the Louisiana Gulf Coast Region and have extensive experience acquiring field data in this challenging environment. Our geographic proximity and location with respect to time and distance to potential Louisiana DOTD Project Tasks is a short drive.

PROFESSIONAL QUALIFICATIONS

If assigned the opportunity for this project, Fugro assures that all tasks will be completed in compliance with requirements of the Louisiana Professional Engineering and Land Surveying (LAPELS) Board. Our Professional Land Surveyors are certified by the LAPELS Board, possess current LA

licenses, and will possess current Louisiana licenses throughout the term of this contract if awarded. All survey services will be completed in compliance with the registration law for Professional Engineers and Land Surveyors and the rules of the LAPELS Board.

Fugro will provide all materials, equipment, and labor required for the prompt completion of the proposed survey services. The work shall be performed in accordance with safe practices and procedures, taking all reasonable precautions to protect personnel and property. The supplied equipment will be properly calibrated and in good operating condition. All field and office personnel assigned to this project will be properly trained and have required credentials.

Key project management responsibilities include creating clear and attainable project objectives, building the project requirements, and managing the constraints of the accepted Scope of Work, Project Budget, Schedule, Safety, and Quality Standards. Fugro Project Managers act as Client representatives to determine and implement the exact needs of the Client in an effort to ensure Client satisfaction in all key project attributes: Scope, cost, time, safety, and quality. Our Project Managers will bridge the gap between the survey crews and the LADOTD staff and take full responsibility and authority required to complete each Task Order.

Land Site Characterization: Responsible land development depends on accurate environmental, geotechnical and geophysical data. We both acquire and interpret this data, using our expertise, in situ testing and world-class laboratory facilities to turn data into valuable knowledge. This includes Geotechnical Ground Investigation, Geological and Geophysical Surveys, Near-shore Geotechnical Site Investigation, Testing and Monitoring.

Land Asset Integrity: We use innovative scanning, monitoring, analytics and data management techniques to assess and report on structural integrity and regulatory compliance and to identify vulnerabilities before they pose a risk. With more than 50 years' expertise in surveying and mapping, we use the latest technology to deliver fit-for-purpose data and comprehensive topographic mapping services. Our capabilities include terrestrial and geodetic surveying, laser scanning, airborne topographic and bathymetric lidar, aerial photography, digital terrain modelling, and satellite mapping and monitoring.



Fugro was founded as an engineering company in 1962 and is now considered the world's leading geo-data specialist. Fugro's Lafayette, LA office was opened as John E. Chance & Associates in 1957 and has thrived under the Fugro umbrella through worldwide resources, including our professional staff, continuous development of technology for mapping the

(subsurface of the Earth. Through our understanding of the coastal environment of the U.S. Gulf Coast, Fugro creates solutions fully tailored to client's quality and sustainability needs.

Sustainability: Fugro's services are essential for the sustainable development operation of our clients' infrastructure, plants, building, and natural resources. We contribute significantly to the development of sustainable energy, such as offshore wind farms, and to projects that mitigate the impact of climate change such as flood and coastal protection.

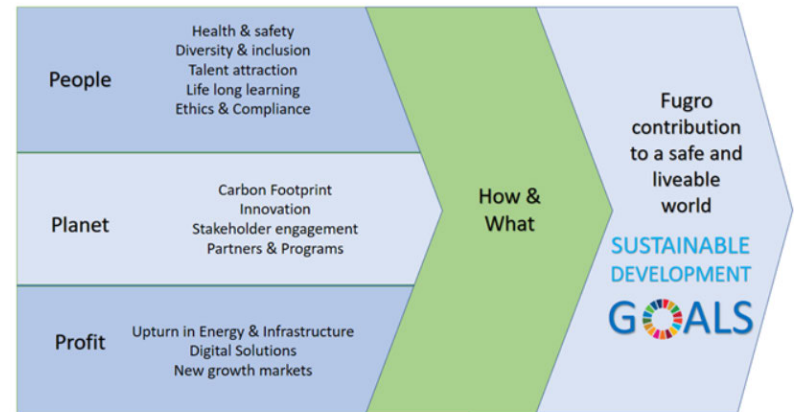
Focus Areas: Fugro has nine sustainability focus areas: health and safety, diversity and equality, talent development, life-long learning, carbon footprint, compliance, business ethics, stakeholder engagement and sustainable innovation. We have clear targets and programs in place to meet the objectives of each focus area.

Valuing People: People are Fugro's strength and future and therefore recruiting, developing, retaining and engaging a diverse pool of talented employees is key. We continually work to support our people by developing their skills and talents while enhancing their knowledge. The company promotes a strong local presence and our offices in sixty-five countries are staffed with local people, from one hundred nationalities.

Capacity: We currently employ surveying and CAD/GIS technology, hydrographers, draftsmen, computer programmers, project managers, geospatial information systems (GIS) analysts, and registered professional land surveyors. Fugro also owns and maintains a full inventory of specialized and conventional survey equipment, and a fleet of field vehicles and boats dedicated to survey work. We have performed work on numerous freshwater and sediment diversion projects, as well as locks, dams, and levees.

Specialized Experience: We specialize in integrating survey, geotechnical, environmental, hydrological, geological services to acquire and interpret data and provide insight and support. Our intimate knowledge of the industry is derived from many years' experience, working on projects throughout Louisiana. We offer a unique combination of mapping and surveying expertise, large data acquisition and processing capacity, and operational experience deploying survey crews throughout the world.

We have an extensive project history with federal, state, and local agencies along the Gulf Coast. Our survey team regularly brings together various survey techniques such as acoustic imaging, aerial lidar, ground RTK, and bathymetric surveys to deliver hybrid survey solutions. This approach has proven to be successful in providing robust, comprehensive datasets in the coastal and riverine environments of coastal Louisiana.



Our personnel are highly experienced in setting horizontal and vertical control points in accordance with National Geodetic Survey (NGS) accuracy standards and specifications for first order horizontal and second-order vertical geodetic control networks. We have established permanent control through the NGS Bluebook process and are familiar with the procedures and processes necessary to meet the stringent guidelines for published NGS control. Beyond this, we have established thousands of control points for photogrammetry projects and for primary project control throughout the country utilizing static GPS, RTK methodologies, as well as conventional and reflectorless total station and leveling technologies.

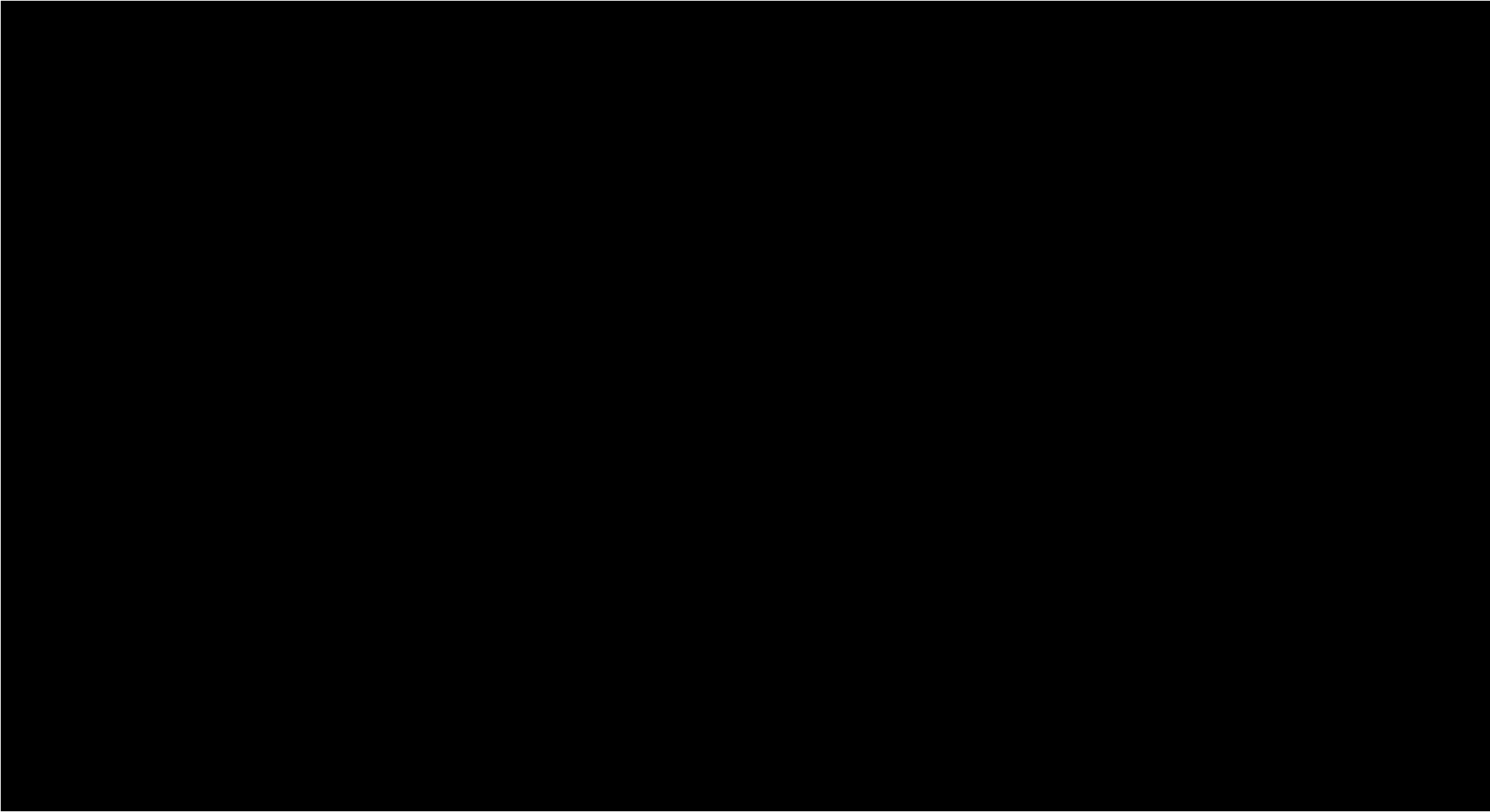
Our employees participate in ongoing, advanced technical training to keep at the forefront of the rapid technological changes that are inherent in the field of surveying and mapping. This knowledge ensures that we embrace the latest mapping technologies and apply the appropriate industry standards to deliver digital mapping solutions.

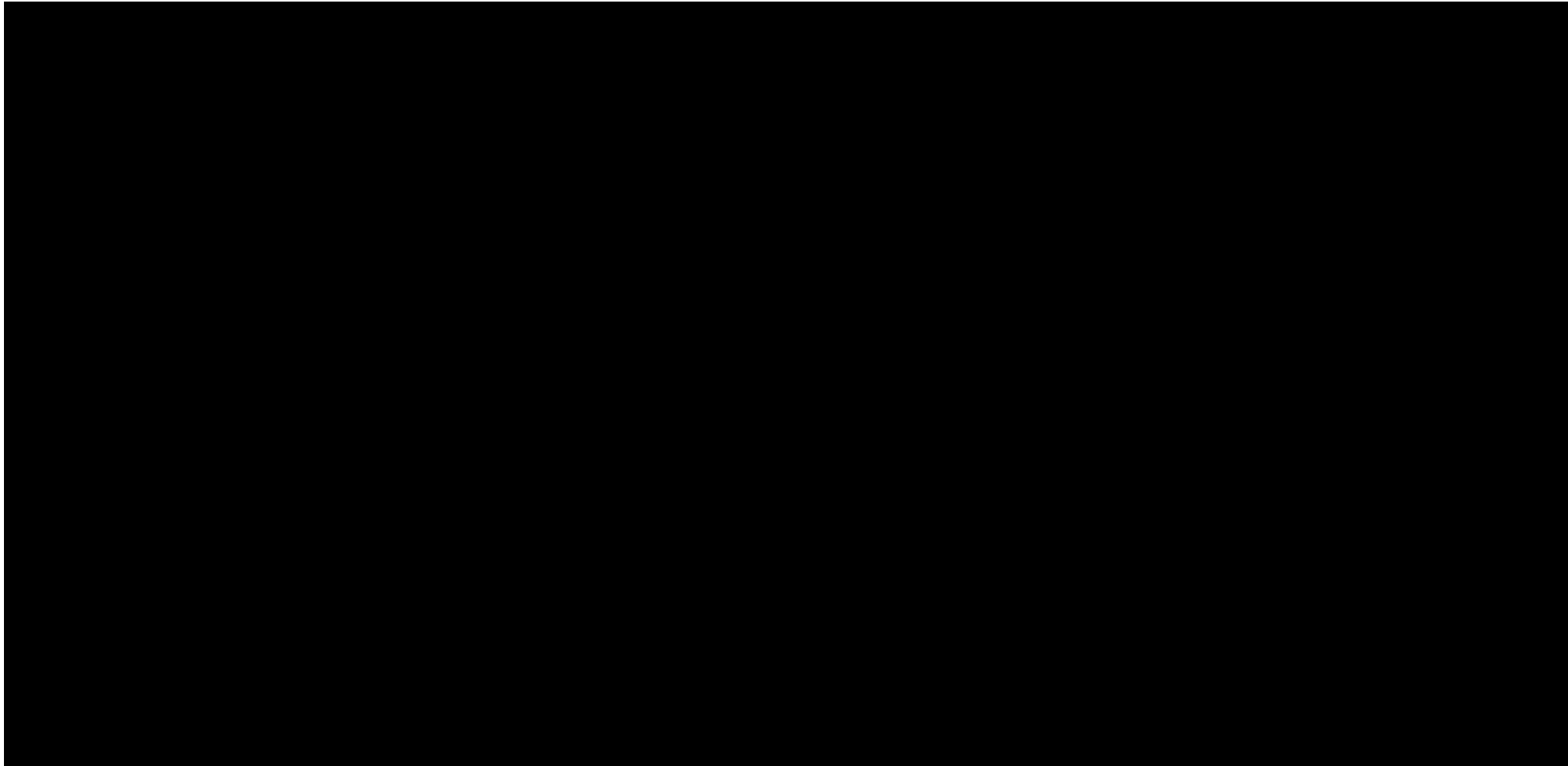
Fugro performs GPS surveys such as subsidence surveys, first order control for blue booking, Differential Global Positioning System (DGPS) and Real-time Kinematic/On-the-Fly (RTK/OTF) on land and in the marine environment, kinematic and fast-static just to name a few. We attained the knowledge in performing post-processing, real-time code and carrier phase L1/L2 GPS topographic surveys. Fugro also can perform 3D laser scanning, as necessary.

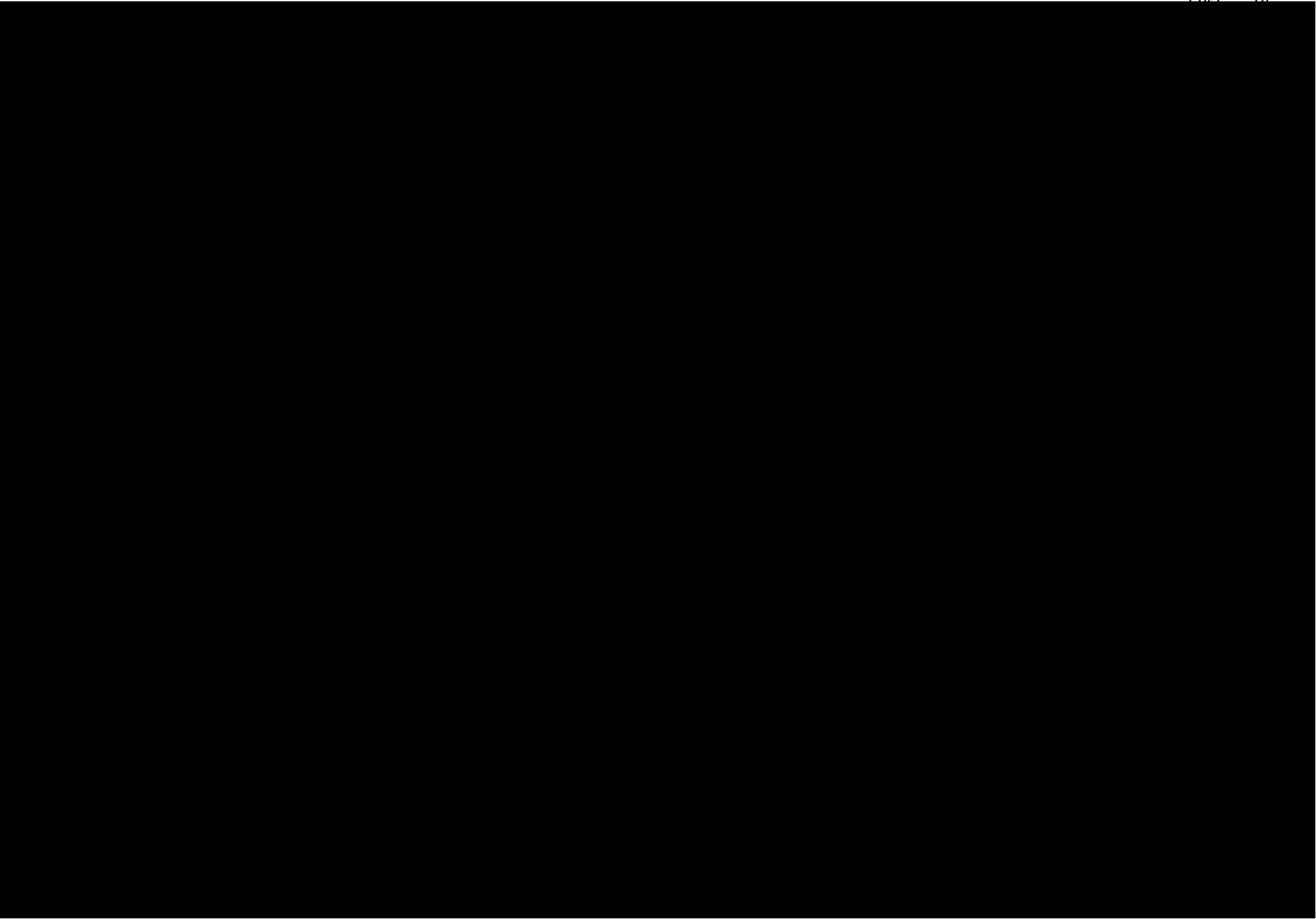
When project requirements dictate, numerous surveying tasks can be completed, including control networks and real time (RTK) stakeout. Our systems are used to perform RTK/OTF Kinematic, Static GPS and FastStatic surveys and can provide sub-centimeter accuracy.

Land Survey Services: Fugro use both conventional and advanced methods of surveying, incorporating the latest in surveying and mapping technology. As pioneers in the commercial satellite positioning, the company's surveyors are considered industry experts in automated data collection, Global Navigation Satellite System (GNSS), Global Positioning System (GPS), and STARFIX satellite-based positioning corrections. Among the services we provide are:

- 1) Topographic surveys
- 2) Drone surveys
- 3) Bathymetric and hydrographic surveys
- 4) Magnetometer surveys
- 5) Geophysical surveys
- 6) ALTA Surveys
- 7) Benchmarks
- 8) Maps, cross-sections, and data sets
- 9) Property and right-of-way surveys
- 10) Control accuracy standards
- 11) GIS Asset Management







SECTION 19

Workload:

For all contracts where a firm on the team is a prime consultant or sub-consultant and where **a)** the consultant selection was made by DOTD, and **b)** a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

- 1) one of the team’s firms is responsible for the performance of the work;
- 2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
- 3) the work has not yet been performed and invoiced; and
- 4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

List only the portion of the fees attributable to firms on the team.

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
N/A				

(Add rows as needed)

DO NOT SUM

* The **only** past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify). If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.

** Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. **NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE.** LEAVING THE “REMAINING UNPAID BALANCE” COLUMN BLANK IS NOT ACCEPTABLE.

SECTION 20

Certifications/Licenses:

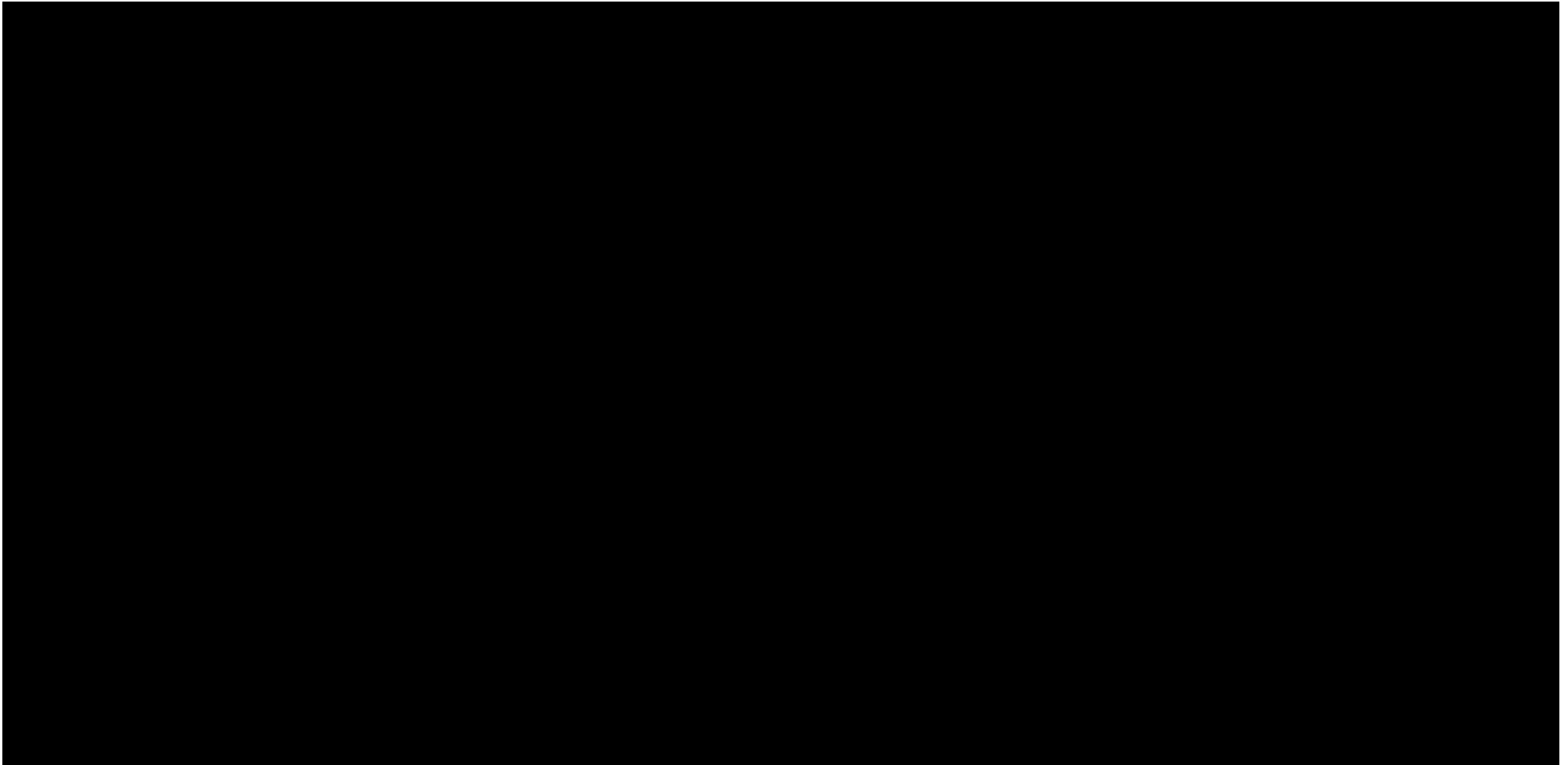
If the advertisement requires submission of licenses and/or certificates, include them here. **Otherwise, leave this section blank.**

	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
David Cormier	Fugro	Professional Land Surveyor	LA	4715 / expires 2024
Lance Castille	Fugro	Professional Land Surveyor	LA	5295 / expires 2025

SECTION 21

■ QA/QC Plan:

If the advertisement requires submission of a QA/QC plan, include it here. Otherwise, leave this section blank. **If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted.**



SECTION 22

■ Sub-consultant information:

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number

(Add rows as needed)

Location:

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. **Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the advertisement.**

