Request For Proposals: Fiber Network Data Architecture Services

Project Purpose

Foundation for Louisiana (hereafter referred to as FFL or the Foundation) seeks a qualified consultant to provide network design and related services to support construction of a fiber network in New Orleans, LA. FFL is releasing this Request for Proposals (RFP) to solicit technical expertise that will allow it to deliver a fiber network design to The City of New Orleans (hereafter referred to as the City).

Ultimately, this new fiber network will help meet New Orleans’ goal to serve city-owned and operated buildings and facilities located throughout the 350-square mile city. This new network will improve services to residents, support implementation of Smart City applications and assist the City to achieve cost efficiencies in daily operations while helping disadvantaged residents to bridge the digital divide.

As part of this project, high-speed internet access may also be offered for public use in city-owned or supported facilities like parks, libraries and New Orleans Recreation Development Commission (NORDC) centers. The City imagines working with community organizations to offer new services such as digital skills training in these spaces. Additionally, this project will explore design options that allow the network to be leveraged for future potential public private partnerships.

The Foundation will consult with the City to ensure it understands the City’s needs thereby enabling FFL to determine the most qualified responder. Following the administration of this RFP, FFL will manage the selected provider and financial aspects of this project. Core funding for this project is provided by the Ford Foundation. FFL will share communication pertaining to this RFP with the City of New Orleans.
Project Background

This project aims to build an institutional fiber optic network (fiber network or network) to serve city-owned and operated buildings and facilities throughout the 350 square mile city. The fiber network should be capable of providing high-speed data transmission of at least 1 tbps for wireline transmission and 1 gbps for wireless services (using the fiber network as a backbone).

As a result of this project, city-owned and operated facilities and city staff may benefit from a range of services including, but not limited to:

- IP based data networking services.
- Layer 3 connectivity between local City data centers.
- VoIP phone, teleconferencing, video conferencing.
- Video broadcasting for possible use by public, educational and government (PEG) channels.
- Robust video monitoring to meet a range of City needs.
- “Smart” infrastructure connected through a wireless network (e.g. traffic light and advanced camera systems, street lights, extremely localized weather sensors, water sensors etc.).

Through this RFP, the Foundation seeks a qualified consultant to provide network design and other services described below to support construction of a fiber network. Required tasks will include:

- Gathering information needed to write the RFP for network construction.
- Creating network technical requirements (including product specifications as needed).
- Developing detailed fiber network architecture and design.
- Combining network design with an analysis of City data and contracts to recommend a cost-effective build-out sequence that best leverages planned street and sewer line repairs.
- Suggesting build-out and operational business models that might be mutually beneficial to the City and to the vendor contracted to build the network.

The resulting fiber network design will be the subject of a subsequent RFP to solicit fiber network construction services.

FFL welcomes responses from firms with experience designing fiber networks, including telecom network design firms, incumbent internet service providers, competitive internet service providers, non-profit institutions, cooperatives and other entities that are not traditional internet service providers. The foundation encourages collaboration among bidders as necessary to meet the goals of this RFP.
Scope of Services:

Task 1: Conduct On-Site Strategy Session

The selected consultant will work with FFL to develop a fiber network design by creating a strategy and/or timeline for completion of the network design process. The City will provide data and assistance to FFL and the selected consultant. To that end, the first task is an on-site strategy session to allow FFL, the City, and the consultant to:

- Identify additional project stakeholders to ensure crucial people are not omitted.
- Finalize project goals, objectives, timelines, milestones and deliverables.
- Review relevant data including:
  - Existing fiber maps (City owned and privately owned).
  - City sites targeted for connection (existing WAN).
  - Inventory of City’s existing fiber network equipment.
  - Fiber network planning documents.
  - Other City infrastructure (existing and planned upgrades).
  - Relevant electronic files.
- Inventory unavailable data and create a plan to acquire that data.
- Establish project parameters.
- Address questions and concerns from City staff and stakeholders.

The consultant also should be ready to discuss best practices in gigabit municipal fiber network planning and deployment, including design, construction, funding and financing issues. This will help stakeholders, who may not be well-versed in the complexities of municipal fiber projects, understand the depth of the undertaking, likely challenges and strategies to address these challenges.

Following this session, the consultant will provide a written summary of the outcomes of the On-Site Strategy Session as the deliverable for Task 1.
Task 2: Create Geodatabase

Fiber network design and construction require knowledge of the location and condition of existing and planned infrastructure. Network designers use this information to determine where to place network infrastructure. This information also aids network builders by reducing the burden of uncertainty and subsequent data collection during construction.

The Foundation requests that the consultant provide a list of underground, on street and aerial infrastructure and infrastructure systems whose location must be known to enable the design and subsequent construction of the city’s fiber network (required infrastructure). The consultant also must provide a list of other infrastructure and infrastructure systems whose location would be helpful to know (non-essential infrastructure). A non-exhaustive list of possible types of infrastructure includes: potable water, storm water, waste water, telecom, electricity, gas, oil, fire hydrants, manholes etc.

The consultant will create a geodatabase documenting required infrastructure according to ESRI’s ArcGIS for Local Government Information Model (LGIM) or ESRI’s telecom and utility database structure. Depending on usefulness and cost, the City may ask the geodatabase to document other non-essential infrastructure as well. The consultant also must identify other information that should be included in this geodatabase to facilitate fiber network design.

To the best extent possible, the geodatabase potentially will contain the following data and information:

1. Location, condition, and valuation of the City’s current fiber assets and conduit.
2. Location of the City’s and other relevant institutions’ existing and future planned underground, on street and aerial infrastructure systems.
   Required information includes type of infrastructure system, name and contact information for the entity owning the infrastructure, location of infrastructure and depth beneath the surface (if underground) or height above surface level, if aerial.
3. City owned right-of-way (ROW), state owned ROW, corridors owned by quasi-public or private sector entities like railroads, Entergy, other public and privately owned utilities, easements, servitudes etc. that may be useful.
4. City sites to be served by the fiber network, the expected cost to build to each site and current operations and maintenance cost to serve each site. (The City will provide information about its WAN and when sites can be transitioned to the City fiber network without financial penalty).
   This information will help the City and its consultant to prioritize construction sequencing.
5. Locations of possible network expansion sites (e.g. K-12 public schools and libraries).
6. Current and future land use (available at data.nola.gov and from the City Planning Commission)
7. Bus and streetcar stops and transportation terminals.
8. Location and schedule of current and future Sewerage and Water Board (SWB) and Department of Public Works (DPW) projects.

Data and information about essential infrastructure, as discussed above, may not exist in an editable, graphical, electronic format. Therefore, the consultant will need to obtain key information from paper documents and transfer this information to an editable, graphical, electronic format for inclusion in the geodatabase. In other words, the consultant will need to map key data and information about essential infrastructure.
Together FFL, City staff and the consultant will determine:

1. Type of assets - infrastructure and infrastructure systems, property, rights-of-way, easements, servitudes etc. – documented in the geodatabase.
2. Type of data and information included about these assets.
3. Manner of portraying assets in terms of showing features as points, lines or polygons.

**Data Availability:** City-designated staff will provide as much information as they can, but the consultant must make an effort to obtain accurate data about the placement of the above-listed items in adequate detail to enable fiber network design. If the consultant is unable to obtain any information identified as pertinent to designing the fiber network, the consultant must disclose the missing information and specify the resulting limitation and/or effect on network design.

Due to concerns about data availability, RFP responses must indicate the expected difficulty to collect data about the City’s fiber and conduit, other infrastructure systems and City and state ROW. Please describe the availability of this data, your approach to obtaining this data (e.g. datasets and surveys to be used), the expected cost of this data and the anticipated time to gather necessary data about required infrastructure.

**Geodatabase Requirements:** The geodatabase should use ArcGIS version 10.2.2 to support use of ESRI’s Local Government Information Model (LGIM) or ESRI’s telecom and utility database structure. Solutions that support only shape files and CADD files are unacceptable. Additionally, the geodatabase:

- Must be editable to ensure the City can update data therein.
- Differentiate among the various infrastructure systems.
- Include an ArcGIS online WebMap to view specific layers.

The consultant will provide a geodatabase and all associated files and documentation as the deliverable for Task 3.
Task 3: Develop Detailed Infrastructure Assessment and Strategic Plan

Building on the insights and data gathered during Tasks 1 and 2, the consultant will assess the City's future infrastructure needs and develop a strategy for the design, construction and operation of a municipally owned institutional fiber network to serve needs and required tasks as outlined in “Project Background” and refined during the On-Site Strategy Session.

The consultant will provide guidance on relevant sources of information for this task. Together, FFL, the consultant and the City will determine which relevant sources of information are available and devise a plan for securing this information. Subsequently, the consultant will review relevant and available sources of information like:

- Paper and electronic maps.
- Paper and electronic documents (e.g. legal descriptions of real property, easements, lease servitudes, rights of way etc.).
- CAD and GIS layers.
- Data about the City’s existing fiber and conduit.
- Data about fiber and conduit owned by telecoms and other entities.

Using the relevant information, the consultant will complete the following tasks:

a. Assessing the City’s current WAN, which is leased from ISPs, including technical/fiber design and equipment selection, operations costs, staff requirements and life cycle costs to document the City's current network and detail steps to build and operate a “replacement in kind” municipally owned network. The assessment should clearly indicate tasks and costs currently handled by the ISPs that would become the City’s responsibility with a municipally owned network.

b. Detailing hardware, design, software and/or other upgrades the “replacement in kind” network needs to have the capacity, redundancy (continuity of operations), security, performance, sites, hierarchy of sites, segmentation, interconnection and interoperability to meet the City’s future requirements as discussed in “Project Background” and refined during the On-Site Strategy Session.

c. Facilitating discussions with FFL and Department of Information Technology and Innovation (ITI) staff to determine the City’s capability to build and operate a network and to identify additional resources and training City staff may need to operate a fiber network directly. The consultant also will advise the City on the best methods for acquiring additional resources and training. The City prefers to maximize current staff expertise and existing resources, but realizes that it may need outside resources to facilitate a phased implementation of its plans.

d. Developing a plan that allows the City to use its resources (buildings, parcels, rights-of-way, street lights, traffic lights, catch basins, etc.), other construction projects (e.g. the Sewerage and Water Board’s upgrade of waste water facilities, LADOTD and DPW street maintenance) and innovative construction techniques to decrease the cost and/or increase the speed of network deployment.

This will include surveying upcoming utility projects and possible utility colocation to determine how to leverage these projects. The consultant will meet with City entities performing utility projects (SWB and DPW) to discuss the nature and timeline of their projects and determine how to leverage those projects to reduce fiber construction costs.
e. Performing up to five (5) days of outside plant field survey work for site planning to evaluate representative City sites, with surveys at the most important sites and the most challenging sites to serve. The consultant will determine the level of effort to connect sites and specific details related to using the City’s rights-of-way. Where applicable, the consultant also will identify opportunities to connect additional sites or provide physical path redundancy to enhance communications survivability between sites.

f. Developing a fiber allocation plan to provide cost-effective redundancy, network expansion to meet future City needs, and allocate fiber for lease or private-public partnership to give the City options to generate revenue with its network by serving other users (e.g. libraries and schools). The consultant will recommend ways to make appropriate tradeoffs between fiber deployment, electronics expenditure, operations and maintenance costs and network survivability, given the City’s needs.

g. Developing a “best in class” network electronics plan to accommodate the City’s needs over the lifetime of the electronics. The plan will optimize performance, survivability and total lifetime costs and will leverage the City’s existing equipment, if possible. The network electronics strategy will not be limited to any particular vendor’s equipment.

h. Estimating the cost of fiber network construction (including network equipment, fiber installation, cabinets, uninterruptible power supplies, power generators, documentation systems and monitoring and management systems).

The consultant will provide a “Detailed Infrastructure Assessment and Strategic Plan” to document the relevant findings from the aforementioned analyses and discussions as the deliverable for Task 3.
Task 4: Identify Fiber Network Technical Requirements

The consultant will identify the technical requirements of a future-proof, fiber-to-the-premise (FTTP) network able to provide voice, video (one-way and two-way) and data transmission service to multiple locations (the City’s current WAN). The consultant will work with FFL and City staff to develop specifications so the network will meet the following requirements:

1. Able to provide at least 1 tbps synchronous bandwidth (same upload and download speeds).
2. Ability to easily increase bandwidth as needed.
3. Reliability (able to operate continuously in a city prone to regular flooding, humid conditions and high winds etc.).
4. Physical and logical redundancy.
5. 99.9% availability - ability to serve a specified percent of network users if users access the network simultaneously.
7. Low jitter.
8. Capable of ensuring that packets sent and received at network edges are identical.
9. Ability to permit the use of other technologies (e.g. dense wave division multiplexing (DWDM), LTE, 802.11ac etc.) as these become standard or gain significant market share.
10. Physical and Access Security – includes not only securing access to fiber huts and physical infrastructure but also the ability to separate and protect public safety communications and critical infrastructure such as SCADA systems from general traffic. Because long term use of fiber assets may provide opportunities for public-private partnerships, we would also want to understand how to separate private traffic from other general traffic.
11. Scalability - Due to the high cost of trenching and the rapid expansion of high-bandwidth applications, the network should be as “futureproof” as possible. Therefore, the network must accommodate future expansion to new sites without additional mainline trenching, equipment replacement, upgrades, etc. for a reasonable time period (e.g. 30 years) to be determined in consultation with the City’s ITI department. It is understood that new connections may involve lateral trenching.
12. Ability to support Wi-Fi and/or cellular networks as needed.
13. Ease of operation by City staff.
14. Neutral with respect to applications, services (type of use), websites, and type of end-user device so long as these do not impair network performance. The City must be able to use its completed network however it wants within limits established by federal, state and local laws.
15. Be consistent with current IEEE and/or other relevant standards.
16. Compliant with City, State, or Federal telecommunications laws and requirements.
17. Avoid locating key infrastructure near high-power transmission lines.
In addition to an FTTP network to City owned and operated buildings and facilities, the consultant may be tasked with identifying technical requirements for the following network expansion options:

1. Expanding the FTTP network to K-12 public schools and libraries.
2. Building a FTTN network to K-12 public schools and libraries instead of an FTTP network.
3. Building a FTTC network to K-12 public schools and libraries instead of an FTTP network.
4. Building a FTTB network to K-12 public schools and libraries instead of an FTTP network.

As the Task 4 deliverable, the consultant will provide a document outlining network technical requirements that will result in a fiber network able to meet stakeholder needs as developed in Tasks 1 and 3.
Task 5: Develop Fiber Network Design / Architecture

The consultant will use its knowledge of City and stakeholder goals, existing infrastructure, network technical requirements and current and future infrastructure projects to design an institutional fiber network to meet the City’s needs.

The consultant will provide editable, electronic versions of all necessary design documents, network diagrams, and equipment specifications required to construct the fiber network as the deliverable for Task 5. During Task 5, the Foundation, the City and the selected consultant will determine the appropriate format for design documents, network diagrams and equipment specifications.

Task 6: Develop Business Plan

The consultant will use data, information, and the Fiber Network Design developed during previous project phases to create a Business Plan to allow the network to meet the needs outlined through the planning process while using excess fiber to create revenue and community benefits. The plan should achieve project policy goals while minimizing risk for the City.

This plan must provide an actionable step-by-step approach and must state and justify all assumptions and price sensitivities. The Business Plan will include:

a. Integration of capital investment, economic life, depreciation of assets, grant revenue (if any), debt service (if any) and other essential elements of financial analysis.
b. Identification of dark fiber leasing opportunities and advice on dark fiber lease mechanisms, appropriate pricing (given local and regional markets) and pricing structure.
c. Guidance on cost sharing with potential partners, including the potential for public private partnership options.
d. Evaluation of the potential range of network operating costs, including (but not limited to) staff resources, initial and ongoing training, hardware/software maintenance and replacement and commodity bandwidth.
e. Identification of funding sources available to the City, either alone or in partnership with public or private entities. For example, if a network serves schools and libraries, it may be eligible for E-rate funding, which subsidizes internet service and construction of lateral fiber to schools and libraries. Likewise, if a network serves healthcare facilities, it may be eligible for Healthcare Connect funding, which funds projects to ensure hospitals have adequate broadband access.

The financing plan should distribute the funding burden over time to lessen impact on the City.
f. Determination of options to connect the City network to the state backbone and Internet.

The consultant will provide a written Business Plan addressing the items above as the deliverable for Task 6.
Task 7: Recommend Network Governance Structures

Based on evidence from comparably sized US cities, the consultant will recommend several viable structures for network governance and operations. This structure must enable funding sustainability and flexibility in maximizing community benefits. The analysis should present the benefits, drawbacks and differentiating factors for each governance framework.

The consultant will provide written documentation of the governance structures reviewed, analysis of the benefits and drawbacks of different governance structures and recommendations for governance structures that should work for the City as the deliverable for Task 7.
Project Deliverables

The selected consultant will provide the Foundation with the following deliverables.

1. Task 1: Summary of the outcome of the On Site Strategy Session.
2. Task 2: Geodatabase with associated files and documentation.
3. Task 3: Detailed Infrastructure Assessment and Strategic Plan document.
5. Task 5: Fiber Network Design, including plans, drawings, equipment specifications etc.

The Foundation will share these deliverables with the City.
Requirements for Responses to the RFP

To guide consultants in preparing responses to this Request for Proposals, this section provides an outline of the type of information that proposal responses must contain. Responders should respond to each item at the level of detail at which it is presented or list a variance with a particular item and propose alternate terms and supply any supportive detail, as applicable.

Firms must indicate their intention to submit a proposal to Tanya Gulliver-Garcia at Foundation for Louisiana at tgarcia@foundationforlouisiana.org by Friday, September 23, 2016.

Upon request, Foundation for Louisiana will respond in writing to written questions from potential responders and will provide additional information to assist them in responding to the RFP. The Foundation will make any such responses or additional information available to all other potential responders (who indicate that they intend to respond). Potential responders must submit all questions to Tanya Gulliver-Garcia at Foundation for Louisiana at tgarcia@foundationforlouisiana.org by Friday, October 7, 2016.

To the extent a potential responder believes that it has not obtained all of the information it needs to make a complete proposal, it should explain in its proposal the potential financial and other implications of the absent information.

Proposals not conforming to the proper format or failure to respond to any required items may result in a Responder’s disqualification and/or rejection of the proposal. Responders should include most of the requested information in the body of the proposal. If Responders include attachments, they should refer to the attachments in the body of the proposal to enable the City to clearly understand what information the Responder is providing for each section.

Section 1: Consultant Qualifications

Foundation for Louisiana seeks a consultant with the technical capacity and experience to perform the work requested in this Request for Proposals. The selected consultant must have at least 5 years of experience designing, easily scalable, high-speed fiber networks similar to the one envisioned by the City of New Orleans. These may include “campus” and “metropolitan” type networks. Ideally, the Consultant also will have experience constructing and operating these types of networks.

Project Understanding:

Please submit an executive summary of your understanding of the project’s intent and objectives and how your proposed approach to network planning and design will meet the objective to build a high-speed institutional fiber network in a cost effective manner. Please describe the following items:

- Plan to complete each task in the Scope of Services.
- Project management approach (e.g. quality control and assurance strategies, safeguards to ensure the performance of required services and additional factors for consideration by the selection and management team).
• Likely project challenges (e.g. lack of data availability) and a plan to overcome these challenges.

Project Team Qualifications

If the Responding entity is a partnership involving multiple firms, please provide an overview of the project team, including a description of the role of each firm on the team and then provide the qualifications as stipulated below for each firm on your team. For each firm comprising your project team, please describe your experience designing and/or operating high-speed fiber networks.

1. **Design Capabilities**: Please discuss your capabilities in designing high-speed, fiber networks. Fiber networks may represent a mix of technology types – FTTP, FTTB, FTTC, or FTTN – in terms of how close the fiber is to the premises served.

2. **Construction Capabilities**: Please discuss your capabilities in building high-speed, fiber networks. Fiber networks may represent a mix of technology types – FTTP, FTTB, FTTC, or FTTN – in terms of how close the fiber is to the premises served.

3. **Operations Capabilities**: Please discuss your capabilities in operating high-speed, fiber networks. Fiber networks may represent a mix of technology types – FTTP, FTTB, FTTC, or FTTN – in terms of how close the fiber is to the premises served.

4. **Sample Projects**: Please identify at least 10 fiber networks designed by your firm for outside clients (i.e. – not for use/operation by your firm). Fiber networks may represent a mix of business models. Although the Foundation is requesting a design for an institutional network to serve city-owned sites, if a firm’s experience also encompasses building networks that serve businesses and residences too, this would not exclude such firms and their prior experience from consideration. For each project submitted, please include the following information:
   a. Project Name.
   b. Project Location.
   c. Project Size – in terms of square miles of the service area.
   d. Nature and extent of your firm’s involvement in the project.
   e. Hardware and software technology(ies) used.
   f. Maximum bandwidth and typical bandwidth (upload and download).
   g. Types of users the network serves (client employees, outside businesses, residences).
   h. Start and end dates for your firm’s involvement with the project – if the project is ongoing, please provide the percentage of work completed and the anticipated completion date.
   i. Total value of the project (in $2016 USD).
   j. Any unique capabilities or attributes of the network.
   k. Key firm staff who worked on the project that you propose as key staff for this project.
   l. Client Organization Name.
   m. At least one reference who works or worked for the client organization and can attest to your firm’s performance on the project – include name, phone number, and/or email of the reference. The City may contact references for any of the submitted projects.

5. **Sample Report**: For one of the reference projects submitted, the Responder will submit a sample report which the Responder prepared for the client.

6. **Additional Requirements**
   a. At least 5 sample networks must be completed and in active operation by your clients.
b. At least 3 projects must be ongoing projects.
c. At least 5 prior or current clients will be government entities (e.g. cities, counties, states, government agencies etc.) or large institutions like colleges and universities. For each municipal or institutional client, please describe how your firm worked with the client to tailor the network design and/or business model to the client’s needs.

7. Financial Qualifications: Please submit your two (2) most recent annual audited financial statements to permit analysis of your financial resources. If financial statements are unavailable due to confidentiality reasons, submit the two (2) most recent Dunn & Bradstreet reports. If the Responding Entity is a team, each member firm must submit the 2 most recent annual audited financial statements.

8. Evidence of Legal Capacity: Please include copies of Responder’s most recent federal and state annual reports and current licenses to provide telecom/communications services, together with a certification that all state business and regulatory registrations/filings/taxes are current and all internal corporate documents are kept up to date (e.g. meeting minutes, bylaws etc.).

Please describe any legal actions taken against your firm during the past 5 years.

Personnel Qualifications

Please describe the technical design and managerial experience for the key people on your team. For each key person with each firm in the Responding team, please include a resume with:

1. Title and reporting responsibility.
2. A statement of relevant experience, including certifications, training and years of experience.
3. A list of relevant projects and his/her role(s) on these projects.
4. His/her proposed role on this project including functions and tasks for which this individual would have primary responsibility. Also include areas of secondary responsibility, if applicable.
5. Base Location (local address or address outside of the New Orleans area).
6. Name, title and organization of 3 professional references and phone and/or email contact information.

Section 2: Project Schedule and Staffing Requirements

Please provide a project schedule and staffing requirements for each of the 7 tasks in the Scope of Services.

Section 3: Cost Proposal

In a separate sealed envelope, please submit your cost proposal. Please provide a separate cost to perform each of the 7 tasks specified in the Scope of Services. If providing a range of costs, please clearly explain the reasons for providing a range of costs rather than one cost.
Technical Criteria

Proposals will be judged based upon the quality of the responses and responders’ ability to perform the scope of services outlined in this RFP.

Quality of the response – Evidence the responder understands the project’s needs and can deliver a fiber network design meeting those needs. The selection team will evaluate a range of criteria, including:

- Demonstrated understanding of project objectives in building an institutional fiber network.
- Demonstrated understanding of the technical, political, and governance issues associated with building and operating an institutional network.
- Ability to identify potential project challenges and create strategies to overcome challenges.
- Likelihood the responder’s approach will result in a network design that meets City needs.
- Likelihood the responder’s approach will result in a successful design process.

Ability to perform the work – Evidence the responder has performed similar work in the past that allowed clients to meet their objectives. The selection team will evaluate a range of criteria, including:

- Project team fiber network design experience - in terms of number and types of fiber networks designed, number of years of experience etc.
- Project team fiber network construction experience - in terms of number and types of fiber networks built, number of years of experience etc.
- Project team fiber network operations experience - in terms of number and types of fiber networks operated, number of years of experience etc.
- Responder’s past experience – to understand the factors contributing to the success of networks the Responder has designed for other clients.
- Ability to meet schedules and deadlines – The selection team wishes to avoid unnecessary delays and will seek evidence that bidders have the ability to keep the project on schedule.
- Familiarity with the geography of New Orleans or a similar geography – Because geography and terrain impact the design and construction of fiber networks, the selection team prefers that bidders have experience designing and/or building fiber networks in flood prone areas.
- Responder’s willingness to provide a warranty for its work and the length and thoroughness of the warranty.
Submission Guidelines

Questions and Submissions, as detailed above should be sent to:
Tanya Gulliver-Garcia
Manager, Special Initiatives and Evaluation
Foundation for Louisiana
4354 S. Sherwood Forest Blvd. Suite 100
Baton Rouge, Louisiana 70816

Foundation for Louisiana will forward questions and submissions to the City of New Orleans.

DEADLINE FOR INDICATION OF INTENTION TO RESPOND:
5 PM Central Time on Friday, September 23, 2016

DEADLINE FOR QUESTIONS:
5 PM Central Time on Friday, October 7, 2016

DEADLINE FOR PROPOSALS:
5 PM Central Time on Monday, October 24, 2016