REQUEST FOR PROPOSALS

RFP# RFP2024-06

CITY OF DAYTON,

TEXAS

Relocation of Fiber along US90 and UPRR

Dayton City Hall
117 Cook Street
Dayton, Texas 77535 c/o
City Secretary Office

RESPONSES DUE:

November 7, 2024

2:00 p.m. CDT

ISSUED:

October 24, 2024

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City of Dayton

NOTICE OF

REQUEST FOR PROPOSALS

RFP# RFP2024-06

City of Dayton, Texas

Construction of Relocating Fiber

Notice is hereby given that sealed bids will be received by the City of Dayton, **City Secretary** of Dayton, Texas ("CoDA"), at 117 Cook St, Dayton, TX 77535 until 2:00 PM, on Thursday, November 7, 2024, for Construction of Relocating Fiber along US90 and UPRR in the City of Dayton, Texas.

In order to properly respond to this RFP, the bidder must submit a PDF (electronic) version of the proposal on a USB drive and one (1) hard copy of the proposal. Bids received after this time will not be accepted. Bids will be opened and publicly read in the City Hall Conference Room at 2:00 p.m. on the same day as bids are received for furnishing all material, equipment, labor, and supervision necessary for the completion of the above-named project(s).

Sealed bids proposal envelopes shall be marked on the lower left-hand corner with your company name and the following information:

Sealed RFP #CODTX-RFP2024-06 For: Construction of Relocating Fiber along US90 and UPRR in Dayton, Texas. Do Not Open Until 11/06/2024, 2:00 pm

No bid proposal may be withdrawn for a period of sixty (60) days after the bid opening date. The City of Dayton reserves the right to waive irregularities, reject any or all bids or accept the bid deemed most advantageous to the City.

Copies of the Bid Documents can be downloaded at
https://www.cityofdaytontx.com/business/bid-opportunities.

For additional information or questions contact Project Representative at Daynet_RFP@mydaynet.com. Questions and additional information will be aggregated and posted as an addendum to the bid.

It is the vendor's responsibility to check this website for any addendum that may be posted regarding this RFP. CoDA is not responsible for printing copies or providing printed copies of these documents to potential respondents.

The construction for the following phases, if approved, must be started after the execution of the Standard Form of Agreement (the Contract; Attachment A) and in accordance with the following parameters.

	Start Date	**Maximum Weeks for Completion****
Phase 1 Relocation Construction	December 2, 2024	2.0
Phase 2 Fiber Installation	December 13, 2024	1.0
Phase 3 Fiber Testing & Slicing	December 16, 2024	0.5
Phase 4 Removal of old plant	December 18, 2024	1.0

The City of Dayton reserves the right to defer acceptance of any bid for the period not to exceed thirty (30) days after the date bids are received and no bid may be withdrawn during this period. The City also reserves the right to waive irregularities, reject any or all bids, and enter into such contract as it shall be deemed in the best interest of the City.

The Bidder will protect and save harmless the City of Dayton from claims and damages of any kind caused by the operations of the Bidder and shall guarantee the work against faulty workmanship and materials for a period of three (3) years after its completion and acceptance by the City of Dayton.

Dated Thursday, October 24, 2024.

THE CITY OF DAYTON, TEXAS

CONTACT PERSONNEL

Owner's Representative: James Perkins
Director of IT and Broadband Services
117 Cook St
Dayton, TX 77535
(936) 258-2642
daynet_RFP@mydaynet.com

LJA Engineering: David Maholick
SR. Construction Manager
(512)400-5225
dmaholick@lja.com

1. Introduction

1.1 Relocation Background

The City of Dayton, Texas is soliciting contractors to relocate an existing underground fiber conduit along US90, crossing a major UPRR railroad.

The project involves directional boring within the TxDOT right-of-way, installing 1-2” SDR 11 conduits and 1-1” SDR 11 conduit over approximately 3,171 feet. This will include setting eight new 24"x36"x36" handholes, one new 30"x48"x36" handhole, and trenching 27 feet. The contractor will pull a new 24-count fiber for a total distance of 5,806 feet through both new and existing ducts, place a new 12-count fiber totaling 2,459 feet, and install a new 48-count fiber over 382 feet through existing ductwork.

Once the new fiber installation is complete and spliced, the contractor must remove seven existing handholes, 4,562 feet of 24-count fiber, and 2,010 feet of 12-count fiber. Contractors are responsible for verifying the specified distances with construction designs before ordering materials.

Bidders must provide construction services, including verification testing, to ensure successful project completion.

1.2 Nature of Entities Issuing Request for Proposal (“RFP”)

This RFP is issued by the City of Dayton.

1.3 Overview

This RFP seeks proposals for the construction of the Relocation of the CoDA existing fiber plant by qualified contractors. This Relocation is a high priority for the CoDA and TxDOT. The objectives are to establish a new path out of Conflict from the TxDOT road project and UPRR new Rail line:

1. Directional Bore 1-2” SDR 11 & 1” SDR 11 within the TxDOT and UPRR ROW to elevate the existing conflicts.
2. Place a new 48ct fiber, new 24ct fiber and a new 12ct fiber.
3. Remove the existing fiber once a new path has been placed along with new fiber and new fiber has been spliced and activated.
4. Remove old handholes out of ROW.
5. Ensure ROW has been restored to acceptable conditions once the project is completed.

1.4 Rights of Way

Construction and the installation of Relocation components in the CoDA rights of way will be subject to any City of Dayton requirements, agreement, and engineering permits issued by CoDA. Subject to existing rights-of-way and easements, CoDA will allow the Contractor to have access to necessary rights-of-way on property owned by CoDA and property on which it has an easement. Such access will be provided during regular business hours for non-emergency work and 24x7 for emergency work. This access includes permission to perform construction work on CoDA property, including construction in the streets as needed for the Network.

CoDA will also cooperate with the Contractor in efforts to allow the Contractor to gain access to rights-of-way owned or controlled by third parties within the Service Area.

1.5 Regulatory and Other Forms of Assistance to be provided by CoDA

CoDA will provide Contractor with access to:

1.5.1 Expedited Permitting

CoDA will provide the Contractor with a quick, diligent review of all subsequent permit modifications or similar documents that may require approval by CoDA within seven (7) working days of submission by the Contractor.

1.5.2 Expedited Inspection

CoDA, and its construction management company, LJA Telecom, LLC will provide the Contractor with a dedicated inspector for inspection of all work performed on the Relocation.

1.5.3 Project Management

Once construction activities commence, the contractor will be responsible for submitting daily construction reports to CoDA's construction management manager. The contractor must also attend mandatory weekly construction review meetings with CoDA representatives and CoDA's construction management team.

1.6 Relationship between Contractor and CoDA

The Contractor will be an independent contractor that provides all construction services to complete the construction of the Relocation of the existing Fiber plant as outlined in this RFP and the design.

1.7 Ownership of Network

CoDA will own the Network.

2. Services Sought

2.1 Scope of Work

The City of Dayton, Texas is soliciting contractors to relocate an existing underground fiber conduit along US90, crossing a major UPRR railroad.

The project involves directional boring within the TxDOT right-of-way, installing 1-2" SDR 11 conduits and 1-1" SDR 11 conduit over approximately 3,171 feet. This will include setting eight new 24"x36"x36" handholes, one new 30"x48"x36" handhole, and trenching 27 feet. The contractor will pull a new 24-count fiber for a total distance of 5,806 feet through both new and existing ducts, place a new 12-count fiber totaling 2,459 feet, and install a new 48-count fiber over 382 feet through existing ductwork.

Once the new fiber installation is complete and spliced, the contractor must remove seven existing handholes, 4,562 feet of 24-count fiber, and 2,010 feet of 12-count fiber. Contractors are responsible for verifying the specified distances with construction designs before ordering materials.

Bidders must provide construction services, including verification testing, to ensure successful project completion.

2.2 Network Requirements

The Contractor should provide all services outlined in this RFP, as well as normal and customary tasks related to build/contract including utilities coordination, preconstruction meetings, and the distribution of normal daily updates and reports necessary to complete the Relocation process.

The scope of this project includes utilizing the design plans provided by CoDA for Relocating the existing Fiber optic plant and construction/testing services. Design documents have been prepared to full engineering design standards. Construction design drawings will be provided in digital format to be determined by the CoDA (see Attachment B).

2.3 Labor and Material Breakdown

Any Contractor post-award requested deviation in these unit items must be reviewed and approved by the CoDA Project Manager prior to construction. CoDA reserves the right to directly purchase material from other sources and provide it to the contractor as it deems necessary. CoDA expects responses to be the best and final offer using a lump sum price based on known quantities and will be scored on overall project value.

2.4 Responses to Scope of Work

Each potential Contractor shall submit a plan describing its approach to the project described in this RFP. The plan shall describe the Contractor's approach to the construction of the Relocation in sufficient detail to allow CoDA to effectively consider the proposal. The Contractor shall also include a description of the day-to-day operations, and the management of all responsibilities related to this project and explain how the Contractor will fulfill the scope of work in Section 2.1. This should include, at a minimum, the following:

- *Rollout strategy*: A discussion of the anticipated construction strategy (e.g. traffic control), scope, and timing of the proposed schedule. The Contractor should also include a discussion

  of any factors likely to influence the scope or timing of the construction schedule and explain how those factors impact the timeline.

- *Number of crews available* for construction
- *Roles and responsibilities*: A description of the roles and responsibilities envisioned for Contractor, Contractor's subcontractors (if any), CoDA, and third parties (if applicable) for each of the following:
  - Relocation construction
  - Placement of new Fiber
  - Splicing & Testing
  - Removal of old fiber and handholes

2.5 Contractor Qualifications

Please detail your qualifications in the following areas:

- Experience in Relocating existing fiber plant – The contractor should provide a statement of experience highlighting similar Relocation projects that it has constructed, including project name, location, size, architecture, and name and phone number for reference contacts.

- References – The contractor must supply at least three (3) references from other projects of similar scope that were completed within the last five (5) years. References documenting experience working with public sector organizations in Texas are preferred.
- The contractor must be licensed by the State of Texas.

- Staff Technical and Managerial Experience – include a statement of experience and resumes of the project team, including the project manager and other key personnel who will be assigned to this project. Also, include a list of any known or anticipated subcontractors along with their roles and responsibilities.

3. Preferred Architecture

Contractor should bid the project with the following preferred architecture standards or preapproved equivalents. Preference will be given to the equipment and/or manufacturers below.

Conduit – Buried conduit shall be Orange High Density Polyethylene SDR 11. Directional bored conduits shall be Orange High-Density Polyethylene SDR 11. **Handholes –** Tier 22

Splice cases – FOSC splice closures and trays as indicated in Attachment C

Fiber Optic Cable – Single-mode, single jacket, single armor as indicated in Attachment C

3.1 City of Dayton – Broadband Infrastructure Standards

3.1.1 Scope of Standard

These guidelines identify and define the requirements and policies for designing and installing broadband infrastructure and substructure at all CoDA facilities. Use of, and compliance with these guidelines is mandatory for architects, engineers, and installation contractors working on CoDA projects.

3.1.2 Design Guidelines

A. The Infrastructure Standards are based upon the code requirements and telecommunications industry standards contained in the following guidelines. These guidelines will not duplicate the information contained in those references, except where necessary to provide guidance, clarification or direction.

B. In instances where several technical alternatives may be available to provide a solution, these guidelines will identify the preferred solution to meet CoDA's needs. However, each facility and project is unique. These guidelines will differentiate certain approaches and solutions to be applied to new construction versus existing facilities, and different types of facilities. However, designers and installers should always use sound engineering judgment to comply with the requirements of the codes and standards identified in this section.

C. This design includes, but not be limited to, all manhole, hand-holes, conduits, roads, bridges, pipelines, pipeline crossings, cannels, cannel crossing, railway crossings, railways, buildings, #the city# poles, traffic light structures, traffic control boxes, other utilities structures, both existing and planned (new) that are pertinent to the construction of the fiber path.

D. As-builts will be provided in paper 11" x 17" format with all construction notes and geo- spatially correct measurements (verified by GPS), as well as digitally in AutoCAD 2014 or earlier and projected in the coordinate system NAD1983 State Plane US Feet. As-builts shall be to legible scale. As-builts will include cadastral boundaries to include right of ways and planimetric boundaries that includes edge of pavement. CoDA base map can be provided upon request. As-builts shall be provided to designated representatives, incorporating any changes made during or after construction. Final As-builts shall be completed only once all Fiber-Optic cables in said project have been fully installed and tested and tests have been accepted by designated representative prior to project closeout.

3.1.3 Reference Standards

A. Adherence to, and compliance with, the codes and standards referenced, and CoDA unique requirements and design solutions identified in the manual, is mandatory. Requests to deviate from the industry standards and design solutions prescribed in these guidelines may be submitted, on a case-by-case basis, in accordance with the instructions in the Policy and Procedures section of these guidelines. No deviation from the requirements of the National Electrical Code will be allowed.
B. Architects, Consultants and Contractors shall always reference the most recent standards available. Most references can be purchased directly from the individual standards organization.

3.1.4 Codes, Standards, References, and Applicability

A. **NATIONAL ELECTRICAL CODE, NFPA 70**

The National Fire Protection Association has acted as the sponsor of the National Electrical Code (NEC) since 1911. The original Code was developed in 1897 because of the united efforts of various insurance, electrical, architectural, and allied interests. The purpose of the NEC is the practical safeguarding of persons and property from hazards arising from the use of electricity. The NEC provides the minimum code requirements for electrical safety. In telecommunications distribution design, the NEC must be used in concert with the ANSI/EIA/TIA standards identified below, which are intended to insure the performance of the telecommunications infrastructure.

B. **ANSI/TIA/EIA STANDARDS**

The Telecommunications Industry Association/Electronics Industry Association (TIA/EIA) engineering standards and publications are designed to serve the public interest through eliminating misunderstandings between manufacturers and purchasers. The standards facilitate interchangeability and improvement of products and assist the purchaser in selecting and obtaining the proper product for his or her particular need.

The TIA/EIA Standards are updated every five years. Due to the rapid changes in the telecommunications and electronics industries, TIA/EIA publishes periodic Telecommunications Systems Bulletins (TSB), which provides additional guidance on certain technical issues that must be addressed prior to the next scheduled revision of the standards. The information contained in TSBs is usually incorporated into the applicable standard during the next standards revision. Standards and publications are adopted by TIA/EIA in accordance with American National Standards Institute (ANSI) patent policy. The TIA web site is: http://www.tiaonline.org/

C. **FIBER OPTIC TEST STANDARDS, TIA/EIA-526 (SERIES)**

The TIA/EIA-455 series, together with its addenda, provides uniform test procedures for testing the fiber optic components intended for, or forming a part of, optical communications and data transmission systems. This series contains standard test procedures for optical fibers, cables, transducers, and connecting and terminating devices.

D. **CABLING STANDARD, ANSI/TIA/EIA-568 (SERIES)**

The ANSI/TIA/EIA-568-A (series) is the Commercial Building Telecommunications Cabling Standard. This standard defines a generic telecommunications wiring system for commercial buildings that will support a multiproduct, multivendor environment. It also provides direction for the design of telecommunications products for commercial enterprise.

- The purpose of the standard is to enable planning and installation of building wiring with little knowledge of the telecommunications products that subsequently will be installed. Installation of wiring systems during building construction or renovation is significantly less expensive and less disruptive than after the building is occupied. TIA/EIA-568-A establishes performance and technical criteria for various wiring system configurations for interfacing and connecting their respective elements.

E. **GROUNDING AND BONDING, ANSI/TIA/EIA-607 (SERIES)**

The ANSI/TIA/EIA-606 (series) is the Commercial Building Grounding and Bonding Requirements for Telecommunications. The National Electrical Code (NEC) provides grounding, bonding, and

electrical protection requirements to ensure life safety. Modern telecommunications systems require an effective grounding infrastructure to ensure optimum performance of the wide variety of electronic information transport systems that may be used throughout the life of a building. The grounding and bonding requirements of this standard are additional technical requirements for telecommunications that are beyond the scope of the NEC. These standards are intended to work in concert with the cabling topology specified in ANSI/TIA/EIA-568-A, and installed in the pathways and spaces designed in accordance with ANSI/TIA/EIA-569-A.

F. **CUSTOMER OWNED OUTSIDE PLANT (OSP), ANSI/TIA/EIA-758**
The ANSI/TIA/EIA-758 provides industry standards for the design and construction of customer owned OSP infrastructure. Unless specified otherwise in the CoDA Light and Power standard OSP designed and constructed at all CoDA facilities will be in compliance with ANSI/TIA/EIA- 758.

G. **TRANSMISSION PERFORMANCE SPECIFICATIONS, TIA/EIA BULLETIN TSB67**
TSB67 is the Transmission Performance Specification for Field Testing of Unshielded Twisted-Pair (UTP) Cabling Systems. This bulletin specifies the electrical characteristics and performance requirements of field test instruments, test methods, and the minimum transmission requirements for UTP cabling. All testing of horizontal distribution cabling at CoDA facilities will be performed with a TSB67 Level II test instrument.

H. **ADDITIONAL HORIZONTAL CABLING PRACTICES FOR OPEN OFFICES, TIA/EIA BULLETIN TSB75**
This document specifies optional practices for open office environments, for any horizontal telecommunications cabling recognized in TIA/EIA-568. It specifies optional cabling schemes and topologies for horizontal cabling routed through modular office furniture or movable partitions, which are frequently reconfigured

I. **THE BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL**
The Building Industry Consulting Service International, Inc. (BICSI) is a Telecommunications Association whose mission is to provide state-of-the-art telecommunications knowledge to the industry, resulting in good service to the end user. BICSI develops and publishes the Telecommunications Distribution Methods Manual (TDMM). The TDMM is not a code or standard. The TDMM is an extensive volume of information on the various aspects of telecommunications systems and telecommunications distribution. The TDMM provides discussions and examples of various engineering methods and design solutions that can be selected and employed in order to meet the requirements of the NEC and ANSI/TIA/EIA standards. Designers and installers are encouraged to use the TDMM as an engineering tool, within the constraints of the unique requirements of the CoDA Light & Power Infrastructure Standards.

J. **NATIONAL ELECTRIC SAFETY CODE**
The NESC sets the ground rules for practical safeguarding of persons during the installation, operation, or maintenance of electric supply & communication lines & associated equipment. It contains the basic provisions that are considered necessary for the safety of employees & the public under the specified conditions. The NESC continues to be a stronghold in the U.S. electrical industry & communications #the city# field, & serves as the authority on safety requirements for power, telephone, cable TV, & railroad signal systems.

3.1.5 Definitions

DOT: Department of Transportation.

Fiber Optic Cable: A cable that contains individual glass fibers, designed for the transmission of digital information, using light pulses.

Loose Tube Cable: A cable designed and constructed with non-metallic components, that is designed for underground applications. These are "dry" cables using water swellable powders to protect against

water penetration.

OTDR: Optical Time Domain Reflectometer. A device used for characterizing a fiber, wherein an optical pulse is transmitted through the fiber and the resulting backscatter and reflections are measured as a function of time.

Single-mode Fiber: An optical fiber with a small core diameter, in which only a single mode of light is capable of propagation.

Multi-mode Fiber: An optical fiber whose core diameter is large compared with the optical wavelength and which, consequently, a large number of light modes are capable of propagation.

Splicing: A permanent junction between optical fiber splices. Must be thermally fused.

Minimum Bend Radius: The minimum radius a fiber may be bent before optical losses are induced.

3.1.6 Guidelines for Designing & Installing Underground Fiber Optic Cable Routes

Governing DOT Indexes and regulations should be used as well as all applicable codes in force.

Conduit Placement

The conduit shall be placed at an offset from the roadway that meets the governing DOT regulations and Indexes while still staying within the ROW. If this cannot be accomplished, please raise issue to CoDA liaison.

Depth (Minimum / Maximum)

The conduit used as the primary carrier of the fiber optic cable should be buried no less than 48” and 60 inches across when crossing a road except where permit authority requires otherwise or directed in writing by the Project Engineer on behalf of CoDA.

Known exceptions include:

- 20 feet below the bottom of channel crossing controlled by the Coastal Water Authority of Texas.
- 5 feet below drainage ditches/bayous or as directed by the permitting authority.
- Contractor shall be aware of crossing of pipelines on this project may require special materials, depths and construction practices. Such materials, depths and practices shall meet the Pipeline Company's satisfaction. Contractor shall fully coordinate such efforts with the Pipeline Company's approval prior to construction. Such efforts shall be to the satisfaction of the pipeline company, at no additional cost to the project.

Grade away from Buildings/Structures

The conduit shall be placed in such a way to as to maintain a gradual grade down away from buildings and other major structures.

Conduit type/ Inner Duct type

Buried Conduit shall meet the specification as indicated on Attachment C. All couplers must be press-on or screw-on aluminum of Carlon quality or approved alternative.

Conduit Turns & Transitions

All conduit turns shall be made with wide-radius bends or sweeps. At no time shall 90-degree bends be

utilized in the outside plant arena, unless it is already an existing conduit, and approved by CoDA. Exceptions may be made to this rule for work inside of buildings.

Marker Posts

Easily visible, marked as indicated on Attachment B. Marker posts will display the CoDA Logo and will be marked “Underground Fiber Cable.”

Conduit Entering Hand Holes/Manholes

All conduits should be stubbed up underneath the bottom of each manhole/hand hole leaving at least 8” but no more than 12” of visible conduit exposed. Conduit and inner ducts should be capped until use, after use they should be plugged appropriately to maintain the integrity of the conduit/inner duct from dirt and water. All conduits and inner ducts should be cleared and cleaned prior to capping. All ducts should be proofed and sealed using physical duct plugs.

Locate Information

All splice points, vaults/hand hole/manhole/conduit turns of 45 degrees or greater should receive a GPS coordinate that is marked and labeled back onto the as-built drawings.

Handhole Sizing

All handholes utilized MUST meet the DOT applicable Indices and be on the DOT-approved equipment list. The following sizes are to be used wherever possible:

24x36x36 (tier 22, 22K Load)
30x48x36 (tier 22, 22K Load)

All handhole lids shall have a marker embedded on them. All handholes will be set on a compacted 6” base of gravel or #57 stone for drainage.

3.1.8 Guidelines for Installing/Pulling Underground Fiber Optic Cable

Bend Radius

The main risk of damage to the fiber optic cable is by overlooking the minimum-bend radius. It is important to know that the damage occurs more easily when the cable is bent under tension, so when the installation is in process be sure to allow for at least the minimum bend radius. The number of 90-degree turns on a pull shall not exceed four (4).

Reel Placement

Have the reel set adjacent to the vault and use a fiber optic vault pulling block assembly from Sherman & Reilly (or similar).

Cable Slack

Coil a minimum of 100 feet of cable at each handhole location.

Strength

The fibers in the cable will shatter under considerable impact, pressure, or if pulling tensions exceed 600 LB, although from the outside of the cable, this will not be apparent. With fiber optic cable the jacket of the cable and the Kevlar layer directly beneath give the cable its strength so please be sure to note and repair all nicks and cuts.

Installation

When installing use a swivel eye for pulling the fiber optic cable and conduit system.

Precautions

Please review the manufacturer's installation instructions before commencing with the installation. If any questions arise during installation, please refer to the manufacturer's installation instructions or notify the project engineer.

Testing

Perform an OTDR test on each fiber in the installed cable, to verify the parameters of each fiber meet the system design criteria. Power meter tests should also be performed. Test results are to be provided to CoDA representatives.

3.1.9 Safety

The contractor will provide proper work zone safety through an approved M.O.T plan utilizing DOT Standard Indexes.

Contractor will always ensure that all personnel working in the field adhere to all PPE (Personnel Protection Equipment) requirements needed for the particular job location.

3.1.10 Technical Specifications for the Installation of Fiber Optic Cable

Introduction

CoDA specifies the installation of single-mode dry loose tube fiber optic cable to support data communication services to and within their facilities.

The following CoDA specifications for the selection and installation of fiber-optic cable and associated hardware are intended to ensure a reliable and consistent fiber-optic media infrastructure for CoDA.

Fiber Cable Specification

Fiber installed on behalf of CoDA must meet or exceed the following specifications.

Outside Plant Cable

Outside plant cable shall be used for all applications where cable is to be run in underground conduits. Outside plant cable may not be used for interior applications and shall meet the following specifications:

Performance

Installed fiber must meet or exceed the following performance specifications.

Fiber cable types	Wavelength	Max. Attn. (dB/Km)
Single mode, Outside plant	1,310 1,550	3.0 2.0

Installation Standards

Underground Inter-Building Cable

All fiber cable is to be protected with inner duct. After installation, inner ducts are to be permanently labeled as containing fiber optic cable, per CoDA instructions.

At no time shall more than 600 pounds of tension be placed on any fiber cable while it is being pulled through tray or conduit. It is preferred that all fiber cable be pulled with hand power only. If power winches or mechanical advantage devices are used to pull cable, a tensiometer must be used to ensure that maximum tension is not exceeded. Alternatively, a "mechanical fuse" rated at 350 pounds may be included in the linkage. Torsion shall be avoided by the use of a swivel at the cable end. While under tension, a minimum bend radius of 20 times the outside cable diameter will be maintained through the use of pulleys and sheaves where required. After pulling, no bend may have a radius, at rest, of less than 10 times the outside cable diameter.

Labeling

Each cable and inner duct is to be permanently labeled at each end with a unique cable number. In addition, labels shall be affixed to the cable/inner duct at every transition of a vault, hand hole, riser closet, or major pull box.

Connectors and Splices

Mechanical splicing is not allowed inside CoDA facilities or Plant.

Testing

Before Installation

Fiber-optic cable shall be fully pre-tested by the contractor as specified by the “OSP Standards” prior to any burial. Full “reel testing” shall be performed on any cable, prior to installation. Results shall be provided digitally in Adobe Acrobat PDF format to a designated CoDA representative prior to the release of materials for installation.

After Installation and termination

All single-mode fiber strands shall be tested end-to-end for bi-directional attenuation, 1310 nm/1550 nm for single-mode fibers. Tests should be conducted in compliance with EIA/TIA-526-7 or OFSTP 7 according to the manufacturer’s instructions for the test set being utilized.

Tests must ensure that the measured link loss for each strand does not exceed the “worst case” allowable loss defined as the sum of the connector loss (based on the number of mated connector pairs at the EIA/TIA-568 maximum allowable loss of 0.75 dB per mated pair) and the optical loss (based on the performance standard above).

After the cable is in place it shall be tested in the following manner:

a. After termination, each fiber shall be tested with an ODTR for length, transmission anomalies, and end-to-end attenuation. Results are to be recorded and supplied to CoDA in the form of hard-copy printouts. In addition, electronic copies of all test results shall be provided to CoDA along with any required viewing programs.
b. After termination and bulkhead mounting, each terminated fiber is to be tested for end-to-end loss with a power meter/light source; bi-directionally. As above, results are to be recorded and supplied to CoDA.
c. The maximum allowable attenuation for any splice or termination is 0.3dB up to three attempts.
d. Test results need to be delivered in PDF format as well as entered on the test sheet and will include raw traces.

The contractor shall review all end faces of field-terminated connectors with a fiber inspection scope. Connector end faces with hackles; scratches, cracks, chips, and or surface pitting shall be rejected and re-polished or replaced if re-polishing will not remove the end face surface defects. The recommended minimum viewing magnifications for connector ends are 100X for multimode fiber and 200X for single-mode fiber.

4. Administrative Issues

4.1 Availability of the RFP and Amendments

Adobe Acrobat (PDF) versions of this RFP and all associated documents are available on the CoDA project website at: https://www.cityofdaytontx.com/bid_opportunities. Amendments to the RFP will be posted on the project website. Any amendments supersede prior provisions and are effective upon posting on the project website, and each potential bidder is responsible for checking the website to learn of any amendments.

4.2 Questions about the RFP

The primary RFP contact is LJA Telecom, the contact listed in the Contact Personnel above. All general correspondence and any questions about this RFP must be submitted in via e-mail with a CC to the

CoDA project team as listed. CoDA project team will not entertain oral contacts regarding this RFP. The cutoff date for questions will be 2:00 pm Central Time, Tuesday, November 5, 2024. All questions and responses will be public and published to all contractors who attend the Pre-Bid meeting as expeditiously as possible. The identity of the person posing the question will not be disclosed.

Contractors should not contact any CoDA staff directly. Any attempts to contact CoDA staff regarding this RFP other than via this email process may be grounds for CoDA to reject your submission.

4.3 Additional Material

Contractors are encouraged to review any additional materials and updates that may be provided prior to submitting their proposals at the project website noted above.

4.4 Proposal Format and Certification

Proposals should be organized in the same sequence as the Scope of Work (Section 2) of this RFP with responses referencing the appropriate corresponding RFP item(s). Contractors should respond to each item at the level of detail at which each is presented or list a variance with a particular item propose alternate terms and, as applicable, supply any supportive detail. Proposals not conforming to the proper format or failure to respond to any required items may result in a Contractor's disqualification and/or rejection of the proposal. Where the Contractor is requested to supply information, include that information in the body of the proposal, or reference the attachment where it is included. Bid submittals must include the bid, a list of proposed subcontractors, a list of proposed suppliers, a list of project references, and a construction schedule. A duly authorized officer or agent of the Contractor must sign the proposal. **Proposals that are not signed will not be considered.** In the case where multiple Contractors team to present a proposal, a signature by a duly authorized officer or agent of each entity is required on the proposal, though one entity should be designated the prime contractor in the proposal. The lead entity will be the contracting entity and will be responsible for subcontracting with its partners.

4.5 Project Calendar

Anticipated Event Dates:

- **4.5.1** RFP Advertised and Issued: Thursday, October 24, 2024, at 10 AM Central Time
- **4.5.2** RFP Questions Submitted By: Tuesday, November 5, 2024, at 2 PM Central Time
- **4.5.3** Proposals Due: Thursday, November 7, 2024, at 2 PM Central Time
- **4.5.4** Proposal Evaluation Completed: Friday, November 7, 2024, at 2 PM Central Time
- **4.5.5** Award/Letter of Intent for Contract no later than Tuesday, November 19, 2024, at 3 PM Central Time
- **4.5.6** Contract finalized no later than Friday, November 22, 2024, by close of business
- **4.5.7** The selected firm begins work no later than the week of December 2, 2024
- **4.5.8** Progress reports are due every week on Monday at 2 PM Central Time from the beginning of the project start date.

4.6 Proposal Due Date and Submission

Proposals are due by 2:00 PM Central time on November 6, 2024. Proposals received after the deadline will not be considered. Proposals must be submitted in person or via priority or certified mail.

One (1) hard copy and one (1) complete electronic version are required. The electronic response should be installed on a USB flash drive. The drive should be labeled with your company name and any files included should be prefixed with your "<company name>-Dayton RFP-2024-06 "Relocate Fiber along US 90 and UPRR". **Faxed proposals will not be accepted**. Contractors assume the risk of the methods of dispatch or delivery chosen. Office hours for receipt of mailed or expressed proposals are Monday through Friday, 8:00 AM to 4:30 PM Central Time.

Sealed bids should be addressed to:
City Secretary, City of Dayton
117 Cook St
Dayton, TX 77535

and shall be labeled on the lower left corner with your company name and the following information:

Sealed RFP #CODTX-RFP2024-06 For: Construction of Relocating Fiber along US90 and UPRR in Dayton, Texas. Do Not Open Until 11/06/2024, 2:00 pm

4.7 Process and Criteria for Evaluation of Proposals

Proposals will be opened and reviewed internally at the convenience of CoDA. All proposals will be evaluated and, at CoDA sole discretion, an award, if any, made to the Contractor who demonstrates the best ability to meet the overall goals of the project, with particular emphasis on the ability to fulfill the scope of work in the most cost-effective, timely and efficient manner.

Qualifications Evaluation Criteria Includes:	
Proposal Price	50%
Contractor experience and financial strength	20%
Quality of response	20%
References	10%

CoDA, at its sole discretion, reserves the right to award to one contractor, more than one contractor, or to not award at all.

4.8 Clarification of Proposals

Notwithstanding any other provision of this RFP, CoDA reserves the right to:

1. Initiate discussions with any or all potential Contractors for the purpose of clarification of proposals.
2. Waive, or decline to waive, any defect in any proposal.
3. Accept, reject, or negotiate any or all proposals or the terms of any proposal, or any parts thereof, for the purpose of obtaining the best and final offer.
4. Cancel or amend this RFP or issue other requests for proposals.
5. Select a Contractor or Contractors based solely upon its analysis and evaluation of proposals submitted and request presentations on proposals if it believes further information is appropriate to the decision-making process.
6. Select no proposals at all; or

7. Use all concepts presented in any proposal to obtain the most beneficial and effective path to achieving its desired goals for the project.

4.9 Negotiation and Execution of Contracts

The selected Contractor agrees to execute a contract consistent with the terms outlined in Attachment A - Standard Form of Agreement of this RFP within 5 business days of the award. If the parties are not able to reach agreement and execute a contract within 5 business days of the award, CoDA may declare the award void and may select another Contractor or issue a new RFP or proceed otherwise as it sees fit.

The negotiated contract will include a requirement for the Contractor to provide a performance and payment bond to ensure that CoDA does not have to assume unanticipated costs of finishing the project should contractor be unwilling or unable to fulfill the contract.

4.10 Commencement of Work

Selected firm is to begin work no later than the week of December 2, 2024. The submission of a proposal in response to the RFP, and the subsequent evaluation of that response by CoDA, does not constitute a contract or any type of agreement between CoDA and any Contractor for the commencement of work or the performance of any obligation. Only a written contract with CoDA will authorize the commencement of work or obligate CoDA on this project.

4.11 Use of Subcontractors

Contractors may use CoDA approved subcontractors to fulfill any obligations in connection with the project. Use of subcontractors shall be subject to all applicable state and federal laws. A Contractor shall remain liable for fulfilling all its obligations on the project, and for any claims or damages arising from the subcontractor's work.

4.12 Miscellaneous Provisions

4.12.1 Proposal Costs

Responding Contractors are responsible for all expenses they incur in preparing and submitting a proposal or in contract negotiations with CoDA. Even if it elects to reject all proposals, CoDA will not be liable for any costs or damages incurred by any Contractor in preparing and submitting a proposal.

4.12.2 Applicable Statutes

CoDA is a public entity. As a Result, this RFP is subject to a variety of public procurement requirements, including but not limited to federal and state records disclosure statutes. The contractor is responsible for knowing all applicable federal, state and local laws and regulations and complying therewith.

4.12.3 Errors and Omission in a Proposal

The responding Contractor is responsible for all errors and omissions in its proposal. If it discovers an error and wishes to withdraw its proposal, the responding Contractor should notify CoDA immediately. Depending on the stage of the process, the Contractor may be liable for costs incurred by CoDA in analyzing the proposal or negotiating a contract.

4.12.4 Errors and Omission in the RFP

If CoDA becomes aware of an error or omission in the RFP, it will post a notice on the website. If it discovers an error or omission after the proposals are submitted, it may (in its discretion) proceed or reissue the RFP. Even if it elects to rebid the RFP, CoDA will not be liable for any costs or damages incurred by any Contractor in preparing and submitting the original proposal.

4.12.5 Objections to RFP Terms

Any objections to RFP terms must be conveyed in an email to contact personnel and must be submitted by the deadline for submission of questions about the RFP in Section 3.2 above.

4.12.6 Acceptance of RFP/Proposal Content

By submitting a proposal, a Contractor certifies that it has read, understood, and agreed to all requirements, terms, and conditions in this RFP, including any and all attachments, exhibits, and appendices. A Contractor may withdraw its proposal prior to the RFP response deadline.

4.12.7 No Waiver of RFP Provisions

CoDA may, but is under no obligation to, waive any provision in this RFP at the request of a potential Contractor. Any such waiver shall apply to all potential bidders and no waiver shall constitute a waiver of any provision not specifically referenced therein.

4.12.8 Ownership and Confidentiality of Proposals

CoDA will not pay for any information requested herein and all proposals submitted become the property of CoDA. Proposals will not be returned and may be subject to disclosure pursuant to law including federal, state, and local statutes.

Attachment A - Construction Design Drawings

See CoDA website (below) to download the design sheets and GIS (.kmz) file. CoDA is not responsible to print copies or provided printed copies of these documents to potential respondents.

https://www.cityofdaytontx.com/bid_opportunities

4.12.9 Attachment B - Design Drawings.zip

4.12.10 Attachment B – Design Map.kmz

You may also view the documents of the project by going to the following website:

https://www.civcastusa.com/publishers/640f97c38e092615b4bc1588