

Tulsa Technology Center

BEN #140124

Funding Year 2027 Form 470 #270001512

SERVICE SPECIFICATIONS FOR LEASED DARK FIBER & LEASED LIT FIBER DATA TRANSPORT SERVICE (WAN)

Procurement Timeline:

Task:	Date:
Deadline to Submit Questions	October 30 2026
Q&A Publicly Posted	November 4, 2026
Bid Due Date	December 8, 2026

Form 470 Tulsa Technology Team: eRate@tulsatech.edu, Mel Van Patten, mvanpatten@E-Ratecentral.com,
Contacts: Kennedy Nail, knail@E-Ratecentral.com

Communications and Questions

All communication with the Tulsa Technology Center (TTC) regarding this solicitation, including all questions, must be submitted via email to the Tulsa Technology Center E-Rate Team at eRate@tulsatech.edu and carbon copy the consultants no later than the date stated above, or the date listed in a more recent addendum, if applicable. The subject line should include the Form 470 #270001512. Contact initiated by a potential bidder (offeror) concerning this solicitation with any other TTC representative is prohibited. Unauthorized contact may result in disqualification of the Offeror from this solicitation. Answers will be posted in the E-Rate Productivity Center, EPC, according to E-Rate program rules. It is the responsibility of every Offeror to ensure they have downloaded the latest version of the Form 470 and/or 470 attachments, including all addenda. TTC reserves the right to ask clarifying questions of vendors upon review of proposals.

Proposal Instructions

Proposals **must** be submitted by the most current Proposal Submission Deadline as represented either in the Procurement Timeline above or a more recent addendum.

Proposals should be emailed to ALL Form 470 Contacts listed above and include the following:

- Tulsa Technology Center is specifically named
- Form 470 number
- SPIN (Service Provider Identification Number)
- Service provider's terms and conditions

- Completed Attachment A Vendor Pricing workbook in .xlsx

Proposals **must** include **all** costs associated with providing service, including but not limited to:

- Monthly recurring charges (MRC) include any recurring charge related to delivering the services, such as monthly charges for Transport service, basic terminating equipment, etc.
- Non-Recurring Charges (NRC) include any one-time fee other than special construction charges. This includes but is not limited to installation charges, connection charges, and/or basic terminating equipment charges.
- Special Construction Charges (SPC) include one-time costs for deploying new fiber or upgrading network facilities for eligible entities. These charges are non-recurring and include the following components: construction of network facilities, design and engineering, and project management. Offerors should provide special construction details sufficient to support E-Rate review, including route feet, cost per foot, and plant mix where applicable.
- Failure to identify the monthly recurring, non-recurring, and special construction charges will result in the disqualification of the proposal. Respondents are encouraged to provide the estimated taxes and surcharges associated with the service. Submissions indicating that there may be additional MRC, NRC, or SPC related to delivering the services **WILL** be disqualified.

Proposal pricing **must** be included in the provided Attachment A Vendor Pricing workbook in .xlsx, or .xls, format and all E-Rate ineligible costs clearly identified.

Proposals **must** be in response to the specific requirements of this solicitation. Offers including a generic listing of services beyond the scope of this solicitation and/or encyclopedic price lists will be disqualified. SPAM and/or robotic responses will not be considered valid responses and will be disqualified from consideration.

Tulsa Technology Center reserves the right to consider its existing service as a standing proposal and evaluate it against the other submitted proposals.

SCOPE OF REQUESTED SERVICES

Introduction

Tulsa Technology Center (TTC) is seeking proposals for Leased Dark Fiber (LDF) and/or Leased Lit Fiber Data Transport Service (LLF) for its locations in the Tulsa, Oklahoma Metropolitan Area.

TTC is seeking a network design that forms a protected Wide Area Network (WAN) that minimizes single points of failure for any facility in the network. E-Rate reimbursement will be sought for all eligible equipment and services. In keeping with E-Rate program guidance, TTC will not specify a network design or route. Respondents should design a cost-effective solution that minimize downtime and support the Tech Center's educational needs.

If significant new fiber construction is involved in the awarded proposal, TTC will be held to a strict timeline for delivery dates for the WAN. The offeror should include a proposed schedule for delivery of infrastructure and

commencement of services to each TTC site. TTC will work with the OFFEROR through the E-Rate process in the event of unforeseeable construction delays. The focus of this procurement is to ensure affordable, scalable, and reliable broadband service for its students and administration.

Services and Construction Outline

Service Definition: TTC is seeking bids for a robust LLF service that allows each site to meet the required bandwidths, scalability, and provide reasonable SLAs, or LDF service, up to 12 strands terminated at each TTC facility.

Proposals for a leased lit fiber transport-only solution should not include ISP Service.

TTC is seeking LDF options that include up to 12-strands of dark fiber to each TTC facility. LDF offerings must include maintenance and operations (M&O) as a monthly recurring cost. All proposals for LDF should include all costs related to annual routine inspection, network electronics to light the fiber, as well as M&O.

Protected Service:

For either LLF or LDF, the service should be “protected” at the physical fiber layer. Vendors should explain how their proposed solutions offer the resiliency required for a secure and robust network.

Network Design and Construction Routes

Offerors should clearly illustrate proposed network design(s) and any necessary new construction routes. TTC’s network diagram is provided as a point in time snapshot for reference: Attachment B Network Diagram

New Fiber Construction

TTC is anticipating there may be significant new fiber construction required to reach some of its facilities. E-Rate rules allow for the reimbursement of special construction charges under the following terms and conditions. In E-Rate terminology, special construction refers to the upfront, non-recurring costs associated with the installation of new network facilities. Special construction and service eligibility for reimbursement have changed starting in Funding Year 2016. See the Federal Communications Commission E-Rate modernization order 2 (WC Docket No. 13-184) (<https://www.fcc.gov/document/fcc-releases-order-modernizing-E-Rate-21st-century-connectivity>) for more information. Special construction charges eligible for Category One support consist of three components include construction of network facilities, design and engineering, and project management.

For LLF solutions requiring special construction, this means that the costs associated with building the fiber are considered special construction and the costs associated with the equipment required to activate the service are a standard non-recurring charges.

Excess fiber strands for special construction projects: To the extent that the winning offeror installs additional strands of fiber for future business ventures, the winning service provider assumes full responsibility to ensure those incremental costs are allocated out from the special construction charges to the district in accordance with FCC rules and orders. If, after the issuance of the FCDL, USAC or the FCC determines that the winning service provider did not cost allocate those charges associated with the additional strands, TTC will not be responsible for reimbursing the winning vendor and the winning vendor will assume all responsibilities deemed ineligible by USAC. For examples of cost allocation, please see document in Appendix A as prepared by the State E-Rate Coordinators’ Alliance (SECA).

If no new network facilities are being installed, then any installation costs are considered standard non-recurring costs (NRC).

Permitting Assistance

TTC will not assist winning offerors with permitting.

Solutions Specifications for Leased Dark Fiber

TTC is seeking bids for leased dark fiber data transport circuits, up to twelve dedicated strands, terminated at each location as listed in Attachment A Vendor Pricing workbook. Category 1 network equipment is also sought to light each circuit. It is reasonable that, if a LDF solution is awarded, TTC would light four strands per location in Year One. Vendors must provide reasonable cost-allocation to delineate full number of strands installed versus lit in the first year of the contract.

TTC is seeking twelve dedicated single-mode fiber to each location.

- An awarded vendor may be asked to provide Google Earth .kmz files for each fiber run.
- Contract options being sought for dark fiber solutions must include an initial 12-month term with four voluntary annual renewals.
- Each offeror is required to complete the pricing sheet provided in Attachment A Vendor Pricing workbook with its response to this RFP.
- One Time Construction, other non-recurring and monthly recurring cost (MRC) are required to be broken out and listed separately.
- No increased pricing will be allowed during the term of the proposed contract for either one-time costs or monthly recurring rates.
- The provider will make all reasonable efforts to ensure 99.99% network availability of all leased dark fiber strands.
- All solutions require maintenance as part of the MRC subject to the following terms and conditions.
- An Offeror shall maintain the applicable fiber seven days per week, twenty-four hours per day.
- In the case that maintenance is subcontracted out to a 3rd party, the respondent must hold and manage the subcontract and is ultimately responsible for the SLA.
- It is assumed that the dark fiber network is part of a more comprehensive fiber infrastructure of the offeror. The respondent will include only the portion of maintenance that is required to support the TTC fiber segments versus overall network maintenance.
- Offeror stated commitment is to respond to any outage due to a fiber cut, crimp, bend or another fiber related failure, within two (2) hours and thereafter proceed to correct the malfunction with reasonable diligence.

TTC is asking for service credits for a greater than 2-hour response to a service outage. Vendors responses will be evaluated against the following ideal:

Length of Service Outage	Credit is the following percentage of Monthly Fiber Maintenance Fee
Less than 2 hours	No Credit
Two (2) hours to four (4) hours	5%
Greater than four(4) hours and less than eight(8) hours	10%

Greater than eight (8) hours and less than twelve (12) hours	15%
Greater than twelve (12) hours and less than sixteen (16) hours	20%
Greater than sixteen (16) hours and less than twenty-four (24) hours	35%
Greater than twenty-four (24) hours	50%

The respondent should include an overview of maintenance practices including:

- Routine maintenance and inspection
- Scheduled maintenance windows and scheduling practices for planned outages
- Marker and handhole inspection and repair
- Handling of unscheduled outages and customer problem reports
- What service level agreement is included and what alternative service levels may be available at additional cost
- What agreements are in place with applicable utilities and utility contractors for emergency restoration
- Repair of fiber breaks
- Mean time to repair
- Replacement of damaged fiber
- Post repair testing
- Replacement of fiber that no longer meets specifications
- Policies for customer notification regarding maintenance
- Process for changing procedures, including customer notification practices
- Process for moves, adds, and changes
- Process for responding to locate requests
- Major cut repair or relocation of fiber requests included monthly maintenance scope

Solution Specifications for Leased Lit Fiber Transport Service

TTC is seeking bids for a Leased Lit Fiber Data Transport Service, without Internet Access service, for its Wide Area Network.

The design of the resulting WAN is not dictated by the procurement. An offeror can route any connection through an existing or new offeror hub on its way to the TTC designated hub site. One essential requirement is that the awarded WAN be a compilation of point-to-point connections over fiber infrastructure. TTC sites must have dedicated symmetrical transport bandwidth ranging from 10 Mbps up to 10 Gbps, depending on the site/locations indicated in Attachment A Vendor Pricing workbook.

An awarded vendor may be asked to provide Google Earth .kmz files for each fiber run.

- Contract options being sought for lit fiber solutions must include an initial 12-month term with four voluntary annual renewals.
- One time construction costs, monthly recurring cost, and any additional non-recurring costs are **required** to be broken out and listed separately.

- Respondents are free to propose alternate pricing terms provided they have also included pricing in the requested format.
- No increased pricing will be allowed during the term of the proposed one-time construction costs, NRC, and MRC rate in each pricing cell of the matrix.
- If an increase in bandwidth at any site is requested during the contract period, the contract does not renew.
- A resulting contract must allow for the addition of sites, moving circuits due to relocation of an existing site, or the closure of a site throughout the term of the agreement. To the extent possible, providers are asked to provide costs related to the relocation of an existing site and the addition of a new site in their proposal. This can be done by providing a per foot cost response.

All solutions must make all reasonable efforts to adhere to the following Service Level Agreement (SLA) terms and the terms found here within:

- The provider will make all reasonable efforts to ensure 99.995% network availability of each circuit.
- .25% frame/packet loss commitment
- Sub 10ms network latency commitment for the leased lit fiber transport circuit measured between the Z location and the A location
- 20ms network jitter commitment
- There is no right of provider to limit or throttle the capacity of the circuit at any time for any reason
- These standards are a vendor stated commitment for fully operating service. Any degradation of service may be counted against the network availability standard.
- Vendor will provide monthly service reports and an annual service report showing: Peak link usage for the quarter and downtime on the link
- Impaired performance versus SLA standards for the link
- These are all aggregate statistics for the month

Vendor stated commitment is to respond to any outage within two (2) hours and a four (4) hour restoration of service (see schedule of service credits below).

TTC is asking for service credits for a greater than 2-hour response to a service outage. Vendors responses will be evaluated against the following ideal:

Length of Service Outage	Credit is the following percentage of Monthly Fiber Maintenance Fee
Less than 2 hours	No Credit
Two (2) hours to four (4) hours	5%
Greater than four(4) hours and less than eight (8) hours	10%
Greater than eight (8) hours and less than twelve (12) hours	15%
Greater than twelve(12) hours and less than sixteen (16) hours	20%
Greater than sixteen(16) hours and less than twenty-four (24) hours	35%
Greater than twenty-four (24) hours	50%

TTC will work with the offeror to designate certain sites where scheduled maintenance must be performed in a narrow window and certain sites that are a higher priority for emergency maintenance restoration. The offeror must agree to this service flexibility.

Additional Considerations LLF/LDF

For all proposals, TTC is asking the offeror to agree to the following service specifications:

- Network operations center: Solution will provide customer support functions including problem tracking, resolution, and escalation support management on a 24x7x365 basis. Customer has the right and is encouraged to call concerning any problems that may arise relative to its connection with vendor provided services.
- Trouble reporting and response: Upon interruption, degradation or loss of service, Customer may contact Vendor by defined method with a response based on trouble level. Upon contact from the Customer, the Vendor support team will initiate an immediate response to resolve any Customer issue. Customer will receive rapid feedback on trouble resolution, including potential resolution time.
- Escalation: In the event that service has not been restored in a timely manner, or the Customer does not feel that adequate attention has been allocated, the Customer can escalate the trouble resolution by request. A list of escalation contacts will be provided when implementation schedule is completed.
- Resolution: The Customer will be notified immediately once the problem is resolved and will be asked for verbal closure of the incident.
- Trouble reporting, escalation, and resolution: A detail trouble reporting, escalation and resolution plan will be provided to the district.
- Measurement: for leased lit fiber outage time starts from the time the Customer contacts vendor and identifies the problem. Credits for outages of shortage will be identified.
- Reports: Upon request, an incident report will be made available to the Customer within five (5) working days of resolution of the trouble.
- Link performance per segment: The service will maintain the proposed link performance throughout the term of the contract.
- Historical uptime: Provide aggregate uptime statistics for your proposed service in the geographic area encompassing the area of the TTC facility.

Fiber Construction Plan

If an offeror's proposal includes special construction, the offeror must provide the following information:

- A project manager who will oversee the fiber construction project through completion.
- A list of the permits and regulatory approvals necessary to complete the fiber build and the offeror's approach to securing these permits and approvals.
- The engineering firm that will design the fiber network.
- The construction firm or firms that will install the fiber.

A detailed construction narrative and timeline outlining the engineering, design, project management and construction of the project. The narrative should address:

- A Diagram showing the proposed network topology and the specific fiber routes (can be marked as confidential) proposed to serve the TTC locations.
- Outline of the buried and/or aerial portions of the fiber routes. TTC advises that buried fiber offers more network resilience.

- Outline for the aerial sections the process the offeror will follow to secure pole attachment rights from pole owners.
- The current anticipated turn by turn overview of the route.
- The anticipated number of crews that will be used to construct the route.
- The process for order, receipt, inspection and storage of all outside plant materials.
- Any permitting, supply chain, labor or other challenges that the offeror anticipates could delay the construction of the route.

General Terms for All Proposals

The offeror must acknowledge that it understands the requirements of this procurement, including attachments, appendices, and addenda. If the offeror objects to any terms or conditions listed in this procurement, the offeror must indicate such and list the offeror's proposed amendments on a separate summary page. If the offeror complies to any terms or conditions listed in this procurement, the offeror must clearly indicate such.

Instructions for completing Attachment A Vendor Pricing workbook.

- An offeror must bid all facilities in order to qualify for consideration for an award.
- An offeror does not have to bid both lit fiber and dark fiber for a facility to be considered for an award.
- An offeror can/may bid only one service or option for a listed facility. An offeror must bid all bandwidth levels for a facility when providing a leased lit fiber transport bid.
- An offeror must bid all yearly term options for a facility when providing either a leased dark fiber or a leased lit fiber bid for the bid to be considered.
- An offeror may bid additional contract terms and bandwidths in addition to those requested herein.
- Failure to include any requested information noted as required by the respondent is grounds for disqualification.

Description of Proposal

- Offeror will provide a description of their proposal for all services and solutions.
- The offeror must be able to provision leased lit fiber service or dark fiber strands for the TTC WAN. The fiber system from which the TTC WAN is provisioned can serve other customers, but the portion of the fiber system that serves TTC must be dedicated.
- Description will include an overview of the proposal, any deviations from the requested resiliency, assumptions made, and other detail the TTC may find useful or necessary (or could differentiate the solution from a competing proposal).

Timeline

- For each response, respondents must include a timeline for all bringing each site online.
- For solutions requiring special construction, a schedule for bringing each TTC facility online should be included
- TTC will work with the offeror to devise a schedule that aligns with E-Rate Program deadlines and requirements. .

Demarcation

- All solutions must terminate service or infrastructure in the demarcation point, the MDF, at each address.
- Solutions bringing service to the property line but not to the demarcation point are not acceptable.
- Respondent must specify specific demarcation setup included in base fees, e.g. wall mounted CPE and CAT6a handoff, rack mount patch panel, etc.

Network Diagram

- For each response, offerors must include a network diagram displaying the paths to be used to serve each endpoint.

References and Resumes

- For each response, offerors must provide three (3) references from current or recent customers with projects similar to the TTC WAN scope.
- If an offeror responds to more than one (1) option (e.g. leased lit fiber transport service and leased dark fiber), provide at least one (1) reference for each type of solution.
- Please include resumes of at least 3 employees who will be involved in the project, including the project leader.

E-Rate Review

- If their solution is chosen, the offeror are required to promptly provide TTC with any information being requested as part of the E-Rate program review of the project.
- For all responses that include new construction, the offeror agrees to, by submitting its bid, to produce all construction labor, construction materials, and other construction cost information as part of its bid and for E-Rate Program Review.

Oklahoma Universal Service Fund (OUSF)

- To be compliant with the bidding process specified in 17 O.S. § 139.109.1(B)(5), TTC will accept proposals for any type of technology that provides the required level of broadband service and will accept proposals from any OUSF eligible provider as defined in 17 O.S. § 139.102(11).
- The offeror **must** be capable of providing eligible services under the Universal Service Support Mechanism **and** must be an eligible provider for receiving funding from the Oklahoma Universal Service Fund. If the offeror is not eligible to provide Oklahoma Universal Service Fund support for eligible services, the offeror may be disqualified.
- The awarded offeror must file for OUSF support within 90 days of the start of the OUSF-eligible service.

Required Notice to Proceed and Funding Availability

- TTC will explicitly follow state and local purchasing policies and E-Rate program requirements.
- A formal TTC notice to proceed is required for the project to commence. An E-Rate-issued Funding Commitment Decision Letter (FCDL) is not a notice to proceed.
- Moves, additions, closures and changes will be announced via written or electronic notification.
- Offeror agrees not to charge cancellation or move fees for facility closures.
 - Offeror is asked to include costs related to moves and additions, when available and projectable.

Checklist of items to include with all proposals

In addition to addressing all technical requirements in the RFP, interested offerors should include content to address the following in their proposal.

Item	Included Yes or No
Provide a brief background of the offeror. Include information about the company's history and presence in Tulsa or Greater Oklahoma.	
Describe in detail the history of the offeror serving school districts through the E-Rate program.	
Describe the history of the offeror undertaking projects of similar size and scope in other markets to the one proposed here.	
Provide a technical narrative overview of the proposed solution, including engineering, construction, permitting, equipment installation.	

Provide a network diagram displaying the network topology and the fiber routes used to connect TTC facilities (can be marked as confidential).	
Provide a detailed timeline in a table format that includes all key milestones and dates from start to finish.	
Describe the planned cadence and content of updates from the offeror to TTC during the construction phase of the project.	
Describe the planned cadence and content of updates to TTC once the network is operational. Include the proposed dashboard of network operations statistics that the offeror will share with TTC on a monthly basis including: • Number of service tickets opened • Mean time to resolution of tickets • Statistics to track the performance of the network against the SLA standards ○ Uptime ○ Latency on all links ○ Jitter ○ Packet loss • Service impacting outages • Time to resolution of service impacting outages	
Provide a list of staff with the provider with resumes.	
If any engineering and/or constructions work is required and will not be performed by the offeror, provide the names and company backgrounds of the firms that the offeror will use. Provide resumes in the same format.	

Contract Term and Modifications

Services are needed effective July 1, 2027. If the service cannot be guaranteed by this date, this should be indicated in the proposal, along with an estimated timeline for when the service will be available.

Contract options being sought for lit fiber solutions must include an initial 12-month term with a finite number of voluntary annual renewals. The Technology Center's preference is for four annual renewals.

All contracts should permit bandwidth increases during the term. Any such increases, including those during optional renewal periods, will be treated as modifications to the existing agreement rather than new agreements and, therefore, will **NOT** extend the contract's term.

All contracts should include a provision allowing for early termination of circuits without penalty if a location is closed.

All contracts should include a clause allowing for the addition of sites at the existing MRC for the duration of the agreement. Any additional sites added will have the same end date as the main agreement.

No price increases will be permitted during the term of the agreement.

Service providers proposing equipment whose prices may increase depending upon new U.S. government tariffs imposed on imports are encouraged to (a) identify such products in their offers, and (b) propose an acceptable methodology for limiting price adjustments over the life of the contract.

Subject to contract restrictions, services may be reevaluated for cost-effectiveness at any time during the life of the agreement including renewal periods.

E-Rate Specific Considerations/Information

FCC rules require vendors to offer discounted SPI billing. The Tulsa Technology Center currently utilizes SPI discount method for this service, and it is their preference to continue with the same discount method. Vendors that do not offer SPI billing will be disqualified.

Per USAC E-Rate rules, "cost of eligible services" will be the highest valued criterion in the evaluation process; however, other criteria with a lesser value may also be considered.

Service providers proposing a temporary equipment loan for product demonstration and/or evaluation purposes are **required** to clearly state that such loans are of limited duration. Product demos extending beyond thirty (30) days must be explicitly authorized by both parties and provided at a fair market rate.

By submitting a proposal on the requested services herein, the vendor certifies its proposed services and/or products comply with Parts 47 Section 54.9 and 54.10 of the FCC rules which prohibits the sale, provision, maintenance, modification, or other support of equipment or services provided or manufactured by Huawei, ZTE, or any other covered company posing a national security threat to the integrity of communications networks or the communications supply chain. See <https://www.usac.org/about/reports-orders/supply-chain/> for more details.

As required by Section 54.500(f) of Part 47 of the Code of Federal Regulations all bids in response to this RFP **must** offer the lowest corresponding price (LCP) which is defined as the lowest price that a service provider charges to nonresidential customers who are similarly situated to a particular E-Rate Tulsa Technology Center (school, library, or consortium) for similar services. See <https://www.usac.org/E-Rate/service-providers/step-2-responding-to-bids/lowest-corresponding-price/> for more details.

Additional Considerations/Information

The language in this solicitation has been standardized: "must," "shall," "mandatory," and "required" indicate mandatory specifications that the Tulsa Technology Center expects in the proposed solution. Proposals failing to meet these will be disqualified. "Should" and "may" indicate desirable specifications. A mandatory requirement may be waived if all respondents fail to meet a mandatory requirement.

Tulsa Technology Center reserves the right to waive any irregularities or informalities in the proposals received.

Tulsa Technology Center reserves the right to award all, part or none of the services set forth in this procurement. This procurement does not obligate Tulsa Technology Center until a valid agreement and/or valid Purchase Order is executed.

The Tulsa Technology Center reserves the right to request Best and Final Offers (BAFOs) from one or more Offerors. BAFOs must be received by the date and time specified during discussions or negotiations. If an Offeror does not submit a BAFO by the stated deadline, the Tulsa Technology Center will evaluate that Offeror based on its originally submitted proposal. If BAFOs are requested, the Tulsa Technology Center reserves the right to conduct a subsequent evaluation and scoring of proposals, including any revised pricing and other information submitted in response to the BAFO request, in accordance with the evaluation criteria set forth in this solicitation.

Tulsa Technology Center may, at its sole discretion, extend the due date for the submission of proposals and any extensions shall be done via an addendum posted in the E-Rate Productivity Center (EPC.)

The vendor submission is subject to open records requests and, as such, the records will be released in accordance with those policies. Vendors are encouraged to mark pages as “Proprietary” or “Confidential” as appropriate, but the entire submission may not be marked as such. Identifying information as “Proprietary” or “Confidential” does not guarantee that the information will not be released but will be considered in determining whether the information is required to be released in accordance with the open records policies. Generally, pricing is not exempt from being publicly released.

By submitting a proposal, the Offeror certifies that no relationship exists between the Offeror and Tulsa Technology Center that would interfere with a fair and open competition or is a conflict of interest.

Section 9: Evaluation Criteria

Leased Lit Fiber Transport Service and Leased Dark Fiber Service

Criteria	Weight
Recurring and one-time costs (E-Rate Eligible Costs)	30%
Demonstrated performance in comparable projects	20%
Expertise and availability of key personnel and key contractors	20%
Proposed solution meets requirements of RFP (includes	20%

technical requirements, terms/conditions of TTC)	
Long-term cost savings to TTC	10%

Criteria Explanation

- Recurring and One Time Costs (Includes E-Rate Eligible One-Time and Recurring Costs): the total cost of ownership for the components of the proposed service. Total cost of ownership takes into account all one-time and recurring costs.
- Demonstrated Performance in Comparable Projects: Understanding the offeror's performance on past projects within the State of Oklahoma, and outside of the State. TTC will research and evaluate the offeror's performance in meeting the needs of similarly sized projects/customers inside and outside of the Tulsa metro area. The offeror should list these similarly sized projects/customers as references or as benchmark projects. The projects/customers can be similarly sized school districts, government customers or enterprise business customers.
- Expertise and availability of key personnel and contractors: In their proposal, does the offeror clearly outline who will work on this project, both the offeror's full-time employees and contractors? Does the experience and work history of these personnel and companies provide confidence of successful project delivery?
- Ability to support requirements of this RFP: The proposed solution clearly meets TTC's requirements and needs and shows the offeror's willingness to agree to the TTC's service and contractual terms and conditions.
- Long-term cost savings to TTC: This factor will consider the value of the service from an out-of-pocket cost perspective.

Appendix A: E-Rate Special Construction Cost Allocation Guidance
E-Rate Special Construction
Excess Strands - Cost Allocation Scenarios
(Created in Funding Year 2018)

Prepared by the [State E-Rate Coordinators' Alliance](#)
October 23, 2017

I. LEASED LIT FIBER AND LEASED DARK FIBER

A. Excess Strands for Applicant's Future Use

If the service provider installs additional strands for The Applicant's exclusive future use in a leased dark fiber or leased lit fiber special construction project, and if The Applicant can show documentation that buying a cable containing the number of strands placed in the fiber system for The Applicant's future use is more cost effective than buying a fiber cable with the number of strands The Applicant plans to place into service the first year, no cost allocation of the excess strands is required and no other special construction charges would need to be cost allocated.

If the service provider installs excess strands for The Applicant's exclusive future use in a leased dark fiber or leased lit fiber special construction project where the excess strands will remain dormant until they are lit for The Applicant in the future, and if The Applicant cannot show that it is not more cost effective than buying the exact number of fiber strands being lit in the first year, The Applicant must cost allocate the costs associated with the excess strands only. No other special construction charges would need to be cost allocated.

B. Excess Strands for Service Provider's Future Use

For lit services special construction and leased dark fiber special construction, if the service provider wishes to place extra strands in the build for its own use, the E-Rate applicant must cost allocate the cost of the service provider-owned extra strands, as well as all incremental costs of those extra strands from the special construction E-Rate funding request. It is not a pro-rata share, but an incremental cost calculation that must be backed by detailed documentation.

Example 1 from Funding Year 2018 USAC Fiber Training Slides applies:

COST-ALLOCATION: FIBER EXAMPLES

- **Example 1:** Leased lit fiber or leased dark fiber provider installs 12-strands in fiber run to a large school district hub and wants to add 36 additional strands for its own ineligible use, resulting in additional labor costs (e.g., splicing) and plant costs (e.g., larger termination boards, additional handholes).

Result: Cost of 36 additional fiber strands and all associated incremental increases in costs (e.g., the additional labor/outside plant costs) above what would be incurred if only the 12-strands of fiber were installed must be allocated out of the applicant's special construction funding request.

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Applicants should seek documentation from the provider which outlines the added incremental costs attributable to designing, managing and constructing a fiber system with a 48-strand cable instead of a 12-strand cable. Such costs should include (but are not limited to):

- Splice Labor. If any fibers over the Applicant's fibers are spliced, the labor for these additional splices must be cost allocated.
- Splice Enclosures are placed to protect splices. If any fibers over the Applicant's fibers are spliced and require an enclosure, the enclosures for these additional splices must be cost allocated.
- Fiber Installation Labor. This represents the incremental cost of pulling a larger cable through the buried conduit.
- Structured materials installation. This represents the additional cost of burying a larger conduit to support the additional fibers.

Note that the costs associated with installing a larger cable strand than what is required by The Applicant are ineligible and the service provider should not include such costs in their special construction billing to The Applicant but should be prepared to show evidence during PIA review that it did not charge The Applicant for these incremental costs.

Figure 1: Here is a table outlining some possible incremental costs:

Item	12 Strand cable construction	48 strand cable construction	Cost Allocation Amount that service provider should remove from the special construction request
Fiber Cable	38 cents per foot	\$1.04 per foot	66 cents per foot
Design and Engineering	\$2.12 per foot	\$2.42 per foot	30 cents per foot to depict additional splices at A and Z locations
Project Management	\$1.18 per foot	\$1.18 per foot	0
Splice labor*	\$11.00 per splice	\$11.00 per splice	\$11 per splice over 12 splices at any splice site
Splice enclosures**	\$205 per enclosure	\$205 per enclosure	\$205 per enclosure for every enclosure over 12
Fiber Patch Panel	\$71.43 per panel	\$218.60 per panel	\$147.17 per panel
Conduit and other structured materials	1.25" conduit required \$1.95 per foot Handhole (40,000 lb rated) \$2695 per unit Fiber Marker \$30 per unit	1.5" conduit required \$2.35 per foot Handhole (40,000 lb rated) \$2695 per unit Fiber marker \$30 per unit	40 cents per foot No cost difference for handhole No cost difference per marker
Fiber Installation Labor ***	25 cents per foot	28 cents per foot	3 cents per foot
Structured Materials Installation	\$2.85 per foot	\$3.10 per foot	25 cents per foot

(conduit, markers, handholes)****			
Markers	Place every 500'	Place every 500'	No cost difference
Handholes	Place every 1000'	Place every 1000'	No cost difference

