WIDE AREA NETWORK REQUEST FOR PROPOSAL

Nampa School District #131

Important Dates

RFP Release Date: July 13, 2020
Deadline for Questions: Friday, October 9, 2020; 12PM MDT
Proposal Due By: Friday, October 30, 2020; 11AM MDT

Jurhs, Peter
bids@nsd131.org
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Section 1: Introduction

Nampa School District #131, hereafter referred to as Applicant, is requesting proposals for leased lit fiber and leased dark fiber services for delivery of wide-area network (WAN) services to the District. Leased dark fiber requests include options for a traditional lease and a long-term indefeasible right to use (IRU). Service is expected to originate at the district hub site and be delivered to the eligible service locations. All locations, with addresses and demarcation points, are listed in the attached pricing sheet. The new service is being planned to begin on July 1, 2021, which represents the expiration of the current leased WAN service.

1.1 Schedule of Events

- **RFP Release Date:** July 13, 2020
- **WAN Demarcation Location Walk-Through:** Wednesday, September 9 from 8 am to 5 pm MDT
- **Deadline for Submission of Questions / Concerns:** Friday, October 9, 2020; 12PM MDT
- **Proposals Due:** Friday, October 30, 2020; 11AM MDT
  - Note: proposals received after Friday, October 30, 2020; 10 am MDT will be returned unopened.
- **Qualified Proposal Vendor Meetings:** November 9 – November 20, 2020
- **Evaluation of Submissions:** November 2 – November 30, 2020
- **Declaration of Apparent Successful Respondent(s):** December 4, 2020
  - Note: Contract recommendation must be approved by the Nampa School District #131 Board of Trustees on December 8, 2020.
- **Desired implementation of all services:** June 30, 2021
- **Desired cutover dates to new service:** July 1, 2021

1.2 Communications regarding RFP

All questions and comments regarding this proposal must be submitted to Peter Jurhs at bids@nsd131.org. The deadline for submitting questions is Friday, October 9, 2020, 12 pm MDT. Most questions will be answered within 48 hours or less. Occasionally, additional time will be required to respond accurately. To ensure your questions are answered before bid submitting, please submit your questions early. Note that all interested Respondents will have access to all responses to questions.

The District reserves the right to not respond to a question if doing so might violate any of the rules or laws governing this procurement process gives one Respondent an advantage over another or any other reason that does not impact the integrity of the procurement process.

1.3 RFP Submission

Proposals will be accepted by Nampa School District No. 131 until 11:00 am local time Friday, October 30, 2020, for Wide Area Network. Proposals should be sent to:
All proposals should be submitted in a sealed envelope or other containers. Such an envelope/container should be clearly marked “Proposal: Wide Area Network.” Proposals may also be submitted in person at the address listed. Bidders are encouraged to verify receipt by the District of any proposal. Proposals received after Friday, October 30, 2020; 11 am MDT will be returned unopened. All proposals must be provided in both printed and electronic versions.

1.4 Respondent Requirements
All respondents must be registered, approved vendors with the USAC, have a Service Provider Identification Number (SPIN), and be capable of providing E-rate services, including Service Provider Invoicing (SPI) billing.

1.5 Mandatory WAN Demarcation Location Walk-Through
Nampa School District will hold a mandatory WAN Demarcation Location Walk-Through on: Wednesday, September 9, 2020, from 8 am to 5 pm MDT. We will be visiting various locations and answering questions about demarcation locations. The meeting location is 1002 Front Street, Nampa, ID 83651, at 8 am MDT.

This condition may be waived or modified if circumstances prevent a face to face meeting due to current COVID-19 pandemic conditions in Nampa, Idaho.

1.6 Qualified Proposal Vendor Meetings
Nampa School District will reach out to each qualified proposal vendor to schedule a 90-minute meeting to walk-through their proposal. Nampa School District will reach out to schedule the meeting with each qualified proposal vendor between the dates of November 9 – November 20, 2020.

1.7 Conditions
The District reserves the right to accept or reject any and/or all proposals or portions thereof, and to waive any technicality should such be deemed in the best interest of the District.

In submitting a proposal, a bidder represents that it has read and understands the requirements for the goods and/or services being requested, including applicable laws and regulations. The failure of any bidder to examine any form, addendum, or other documents shall in no way relieve the bidder from any obligations concerning the proposal or any resulting contract.

Objections to specifications or procedures or protests of the award may be lodged as stipulated under Title 67, Chapter 28, Idaho Code. Written objections to specifications or procedures must be received by the Clerk of the Board no less than one (1) business day prior to the date and time at which proposals are due. A bidder who wishes to object to the project award must do so within seven (7) calendar days of the posting of the award. This objection should be submitted to the District’s coordinating party, as listed in the publicly posted bid documents. This objection must set forth the express reasons(s) for the objection and why the award has been made in error. Upon receipt of a proper objection, the governing party for the bid in question will stay its award decision and any procurement under the award until it
has addressed the particular objection(s) submitted. This governing party will review its decision and will determine to (1) affirm the award, (2) modify the award, or (3) repeat the bid process, setting aside its award, and will set forth the reasons therefor. After completion of the review process, the District may proceed as it deems in the best interest of the District.

Proposal pricing shall include all applicable shipping, handling, installation, labor, and other costs necessary to deploy the equipment within the District, at an address to be specified by the District. Proposal pricing should not include any sales, excise, or other taxes from which the District would be exempted.

Proposal pricing is to be held firm until June 30, 2021, from the submission deadline.

1.8 Respondent certifications
Proposal respondents shall offer certifications pertaining to particular, applicable laws or rules; certifications will be required regarding:

- Byrd Anti-Lobbying Amendment
- Anti-Collusion
- National Sex Offender Registry
- Addenda acknowledgment

A Respondent Certification Form is included with this specification packet, detailing these requirements. This form must be completed and returned with submitted proposals; failure to complete and return the Respondent Certification Form may constitute grounds for disqualification of an offered proposal, and no project agreement will be issued without receipt of this form by the District.

1.9 Idaho Sex Offender Registration Act
Idaho Code §18-8329 prohibits any person who is registered or required to be registered under the Idaho Sex Offender Registration Act from being on school property if the person has reason to believe children under the age of 18 are present. In submitting this proposal, Respondent certifies that it shall not allow persons subject to this rule to participate in company business that would require them to be on school property, as stated under the code. Respondent further accepts responsibility for cross-checking such employees against the National Sex Offender Registry.
Section 2: Service Requests

The Applicant is seeking bids for four services. Respondents may choose one, all, or any combination of options. See Section 3 for the requirements of each solution.

- The first service is a fully managed, leased, lit fiber solution.
- The second service is a leased dark fiber solution as a long-term IRU agreement with one-time IRU fees paid up-front and fiber maintenance as a separate service. The IRU agreement between Applicant and the fiber lessor will include terms outlining survivability of the IRU in case the lessor is acquired, insolvent, or experiences any change in ownership.
- The third service is for Category 1 network equipment to place any leased dark fiber solutions into service.
- The fourth service is Maintenance and Operations of leased dark fiber

2.1 Network Design and Construction Routes

The desired logical topology is a hub and spoke or multiple hubs and spoke. The Applicant’s stated decision criteria (outlined in the RFP) will be used to determine if an award is made as-a-result of this RFP. The Applicant has, in accordance with E-rate guidelines, rated cost of service as the highest weighted factor in its decision criteria. The list of locations to be connected can be found in Appendix A, and a diagram of the current wide-area network can be found in Appendix B.

Due to current and future bandwidth needs, respondents are encouraged to provide a dedicated infrastructure to Applicant. Designs are encouraged to utilize the private fiber approach, where there exists no other aggregation or third-party equipment on fiber strands between sites, and modulating equipment at each site is dedicated to Applicant and not shared in any way with other customers. If this is not possible, then designs should limit the use of shared infrastructure as much as possible.

Respondents should clearly illustrate the proposed network design and construction routes. The Applicant is not advocating or mandating any preconceived network design or construction route and leaves this decision up to the vendor to present their best solution while recognizing the cited termination locations.

2.2 Special Construction

In E-rate terminology, special construction refers to the upfront, non-recurring costs associated with the installation of new fiber to or between eligible entities.


Special construction charges eligible for Category One support consist of three components:

- construction of network facilities
- design and engineering
- project management
If no new fiber is being installed, then any installation costs are considered standard non-recurring costs (NRC).

For leased lit fiber 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 NRC.

For leased dark fiber solutions, equipment required by the Applicant to light the fiber is not considered special construction.

2.2.1 Special Construction Payment Plan Option
The Applicant requests that the respondents consider allowing Applicant to pay the non-discount share of special construction costs (a portion of costs that are the responsibility of the Applicant) to be paid in equal monthly installments over four years from Funding Year 2021 to Funding Year 2025 inclusive. Responses must include agreement or non-agreement of this request.

2.2.2 Excess fiber strands for special construction projects
To the extent that the winning service provider installs additional strands of fiber for future business ventures, the winning service provider assumes full responsibility to ensure those incremental costs are allocated out of the special construction charges to the District by 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, Applicant 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 the document in Appendix C as prepared by the State E-rate Coordinators’ Alliance (SECA).
Section 3: Solution Specifications

3.1 Leased Lit Fiber
Applicant must have dedicated, symmetrical transport bandwidth of at least 10 Gbps between the designated endpoints (see Appendix A). The solution must be scalable to 100 Gbps with price quotes at 10Gbps, 40Gbps, and 100Gbps. The contract is requested for 60 months of service (End date of June 30, 2026) with options for one (1) year, three (3) year, and five (5) year renewals.

• Each Respondent is required to complete the attached pricing sheet with this RFP.
• Special construction, 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 quoted special construction, NRC, and MRC rate in each pricing cell of the matrix.
• The contract does not renew (the contract term is not extended) when an increase in bandwidth is requested during the contract period.

All solutions must adhere to the following Service Level Agreement (SLA) terms and the terms found in Section 4:

• The provider will make all reasonable efforts to ensure 99.99% network availability of each circuit.
• .25% frame/packet loss commitment
• 10ms round trip network latency commitment
• 4ms network jitter commitment
• There is no right of the provider to limit or throttle the capacity of the circuit at any time for any reason
• The vendor stated commitment is to respond to any outage within two (2) hours and a four (4) hour restoration of service.

3.2 Leased Dark Fiber
Applicant must have a minimum of four (4) strands (2 pairs) of single-mode fiber from the hub to each eligible entity location.

• A 20-year IRU agreement is requested.
• Each Respondent is required to complete the attached pricing sheet with this RFP.
• Special construction, IRU fee, and monthly recurring cost for maintenance 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 quoted special construction, IRU fee, and annual maintenance rate in each pricing cell of the matrix.
• If special construction is required, the Applicant expects significant reductions from prevailing market rates for the IRU fee and annual maintenance charges on all newly built segments.
• Fiber maintenance should be quoted as a separate price from the IRU fee.
• The fiber owner (not the Nampa School District) must claim responsibility for repairs in the event of a catastrophic cut or relocate.
• Describe the process for relocates, including the assumption of costs.
• If maintenance cannot be quoted for the entire period of the IRU, please include an alternate period quote as well as an explanation for the shorter period.
• The provider will make all reasonable efforts to ensure 99.99% network availability of all leased fiber strands.

All leased dark fiber solutions are subject to the following terms and the terms found in Section 4:

• Respondent 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 service provider. The Respondent will include only the portion of maintenance that is required to support the Applicant fiber segments versus overall network maintenance.
• The vendor stated commitment is to respond to any outage within two (2) hours and, thereafter, proceed to correct the malfunction with reasonable diligence.
• 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 and mean time to repair
  • Replacement of damaged fiber and fiber that no longer meets specifications
  • Post repair testing
  • 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

3.3 Category 1 Network Equipment
The Applicant requires network equipment with installation and configuration to place circuits into service at 10 Gbps, 40 Gbps, or 100 Gbps once leased dark fiber is available.
• Network equipment should be Aruba/Hewlett-Packard Enterprise (HPE) or equivalent and must include all necessary licenses and software.
• Any proposals for equivalent equipment must include an explanation outlining how the proposed equipment offers the same functionality as the example make and model.
• Proposals should include an explanation of whether or not the proposed equipment supports higher bandwidths for future scalability and the ease of upgrading (e.g., a new SFP+ versus a new line card).
• Each Respondent is required to complete the attached pricing sheet with this RFP. If any part of the equipment cost is ineligible for Category 1 funding, this must be identified. Respondents must clarify equipment eligibility with USAC before submitting proposals.
• Network equipment may be bid as stand-alone equipment set by anyone, even if they are not bidding on any fiber service.
• Nampa School District’s existing infrastructure networking equipment is listed in Appendix E.
Section 4: Service Level Agreement

The service level agreement should address each of these bullet points in section 4.

- Network operations center: Solution will provide customer support functions, including problem tracking, resolution, and escalation support management on a 24x7x365 basis. The 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, the Customer may contact the vendor by a 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. The Customer will receive rapid feedback on trouble resolution, including potential resolution time.

- Escalation: In the event that service has not been restored promptly, 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 the 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 detailed trouble reporting, escalation, and resolution plan will be provided to the District.

- Measurement: Time starts from the time the Customer contacts vendor and identifies the problem. Credits for outages of a certain duration or longer 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 Applicant.
Section 5: General Terms for All Proposals

Failure to include any requested information noted as required by the Respondent is grounds for disqualification.

5.1 Description of Proposal
Respondent’s proposal should include all sites for the option bid. If the respondent bids leased dark fiber or leased lit fiber – all sites must be included in the bid. Failure to include all sites in a bid option could be considered grounds for disqualification.

The Respondent will describe their proposal for all services and solutions.

The description will include an overview of the proposal, any deviations from the requested architecture, design or requirements, assumptions made, and other detail Applicant may find useful or necessary (or could differentiate the solution from a competing proposal).

5.2 Timeline
For each response, respondents must include a timeline for bringing all sites online.

Proposals requiring little to no special construction should be able to bring all sites online by July 1, 2021, start of the funding year.

For solutions requiring special construction, a schedule of bringing sites online must be included with an explanation of how this timeline shifts if the date of the E-rate funding commitment shifts.

5.3 Demarcation
All solutions must terminate service or infrastructure in the demarcation point at each address specified in the pricing sheet.

Solutions bringing service to the property line but not to the demarcation point are not acceptable (See Appendix D Demarcation Location by Building on page 19 for details).

The Respondent must specify specific demarcation setup included in base fees, e.g., wall/rack-mounted CPE and handoff interface, rack mount LIU, patch panel, etc.

5.4 Access to Demarcation Point
Each site has a conduit from the curb to the demarcation point. At some sites, a new vendor may need to work with old providers to remove their fiber from the District’s conduit. A vendor should include their solution to this issue in their proposal.

5.5 Network Diagram
For each response, respondents must include a network diagram displaying the paths to be used to serve each endpoint.

Diagrams must show if circuits are routed through any aggregation hubs, equipment, or third-party facilities between the hub site and each endpoint.
5.6 References
For each response, Respondent must provide three references from current or recent customers (preferably K-12) with projects equivalent to the size of the Applicant.

If Respondent responds to more than one option (e.g., leased lit fiber service as well as leased dark fiber), provide three references for each.

5.7 E-rate Program Integrity Assurance (PIA) Review
If their solution is chosen, respondents are required to promptly provide the Applicant with any information being requested as part of the PIA review.

Vendors may assist applicants with preparing funding requests or responding to PIA questions and may speak directly with PIA reviewers.

For all responses that include special construction, the Respondent agrees to, by submitting its bid, produce all construction labor, construction materials, and other cost information requested during PIA review.

All responses must agree, in writing, to this section with a yes or no answer. Answering no or failure to answer at all is grounds for disqualification.

5.8 Required Notice to Proceed and Funding Availability
The Applicant will follow the purchasing policies of the Applicant Board and requirements and procedures of the FCC’s E-rate program as administered by the Universal Service Administrative Company to be eligible for all available funding.

The implementation of any associated contracts resulting from this competitive bid process will be dependent on the District's’ issuance of a written Notice to Proceed.

E-rate funding notification alone will not signify Notice to Proceed. The District will have the right to allow the contract to expire without implementation if appropriate funding (including any state matching funds for special construction projects) does not come available.

5.8.1 Idaho State Matching Program Information
Idaho Code §33-910(1) created the Broadband Infrastructure Improvement Grant (BIIG) Fund. Monies from this fund are available to be distributed by the State Department of Education to provide state matching funds for eligible special construction projects to deploy new fiber (or fiber-equivalent) for high-speed broadband.


BIIG Application Form: https://www.sde.idaho.gov/tech-services/broadband/files/biig/BIIG-Fund-Application.docx

5.9 Required Copies of Proposals
All proposals must be submitted in physical copy and electronic copy. The sealed box delivering the proposal must contain three (3) physical copies of the proposal and one (1) electronic copy on a USB
thumb drive. The physical copies may include pages up to 11 x 17 (folded in half) in size for large diagrams.

Section 6: Evaluation Criteria

6.1 Leased Lit Fiber and Leased Dark Fiber

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<thead>
<tr>
<th>% Weight</th>
<th>Criteria</th>
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<tr>
<td>25</td>
<td>E-rate eligible recurring and one-time circuit costs(^1)</td>
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<td>10</td>
<td>Complete bid submission(^2)</td>
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<tr>
<td>20</td>
<td>Ability to support requirements of this RFP(^3)</td>
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<tr>
<td>10</td>
<td>Proposed contract terms and conditions(^4)</td>
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<td>5</td>
<td>Local or in-state vendor</td>
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<tr>
<td>10</td>
<td>Service reliability and dedicated infrastructure(^5)</td>
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<td>8</td>
<td>Attendance on the WAN Demarcation Location Walk-Through(^9)</td>
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<tr>
<td>5</td>
<td>E-rate ineligible recurring or one-time costs(^6)</td>
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<td>Provider references(^7)</td>
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6.2 Category 1 Network Equipment

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<tr>
<td>20</td>
<td>E-rate ineligible costs(^6)</td>
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<tr>
<td>10</td>
<td>Local or in-state vendor</td>
</tr>
<tr>
<td>30</td>
<td>Compatibility with existing network infrastructure(^8)</td>
</tr>
</tbody>
</table>

6.3 Criteria Explanation

1. E-rate eligible costs: the total cost of ownership for the eligible components of the proposed service. The total cost of ownership takes into account all one-time and recurring costs. Note that E-rate eligible costs refer to the pre-discount cost of the solution, not the post-discount portion of costs that are the responsibility of the Applicant. This criterion must be the highest weighted per E-rate program rules.
2. Complete bid submission: Bids concisely address Applicant’s requirements, as outlined in the RFP, and do not contain a significant amount of corporate boilerplate marketing information.

3. Ability to support requirements of this RFP: proposed solution meets the Applicant’s requirements and needs.

4. Proposed contract terms and conditions: the proposed contract has flexibility and terms desired by Applicant.

5. Service reliability and dedicated infrastructure: Solution provides dedicated infrastructure for Applicant’s service with no shared equipment or routing of traffic through aggregation hubs.

6. E-rate ineligible costs: Any costs of the proposed service that are not eligible for E-rate funding. This criteria does not refer to the post-discount portion of eligible costs that are the responsibility of the Applicant.

7. Provider references: response included K12 references that were similar in size and scope. References should highlight the longevity and success of the implementation.

8. Compatibility with existing network infrastructure: proposed equipment is easily compatible with the existing equipment and monitoring system used by the Applicant.

9. Demarcation walk-through not mandatory but will be used in the evaluation criteria.

Above criteria will be evaluated on the following point structure:

- 0 – Does not meet
- 2 – Meets
- 4 – Exceeds

**Example Scoring for A Leased Lit Fiber Solution:**

<table>
<thead>
<tr>
<th>% Weight</th>
<th>Criteria</th>
<th>Points</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>25%</td>
<td>E-rate eligible recurring and one-time circuit costs¹</td>
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<td>0.5</td>
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<tr>
<td>10%</td>
<td>Complete bid submission²</td>
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<td>0.2</td>
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<tr>
<td>20%</td>
<td>Ability to support requirements of this RFP³</td>
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<td>10%</td>
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<td>Local or in-state vendor</td>
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<td>Service reliability and dedicated infrastructure⁵</td>
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**Total Score** 2.44
Respondent Certifications

1. **Byrd Anti-Lobbying Amendment**—In submitting this proposal, we certify our company will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352.

2. **Anti-Collusion**—In submitting this proposal, we certify it was developed and prepared without any collusion with any competing respondent or District employee; the content of this proposal has not been disclosed to any competing or potentially competing Respondent prior to the proposal due date and time; and that no action has been taken to persuade any potential respondent to submit or withhold a proposal.

3. **National Sex Offender Registry**—Idaho Code §18-8329 prohibits any person who is registered or required to register under the Idaho Sex Offender Registration Act from being on school property if the person has reason to believe children under the age of 18 are present. In submitting this proposal, we certify that our company will not allow persons subject to this rule to participate in company business that would require them to be present on school property, as stated under the code. We further accept responsibility for cross-checking such employees against the National Sex Offender Registry.

4. **Specification and Addenda Acknowledgement**—In submitting this proposal, we certify that we have read and understood the requirements and specifications of this Request for Proposal, including any and all addenda, if issued, as stated under General Bid Conditions, Requirements, and Specifications Section 3.

Signed:  
Printed Name & Title:  
Company:  
Date:
### Appendix A Nampa School District Buildings

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Physical Address</th>
<th>Current Bandwidth</th>
<th>Desired Minimum Bandwidth Hand Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology Center (&amp; Network Operations Center)</td>
<td>1002 Front St.</td>
<td>40 Gbps with 10 Gbps handoff</td>
<td>40 Gbps</td>
</tr>
<tr>
<td>District Office</td>
<td>619 S. Canyon St.</td>
<td>1 Gbps</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>Warehouse</td>
<td>12 – 15th Ave. S.</td>
<td>1 Gbps</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>Nutrition Services</td>
<td>8076 E. Executive Dr.</td>
<td>1 Gbps</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>Union High School</td>
<td>506 Fletcher Dr.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Skyview High School</td>
<td>1303 E. Greenhurst Rd.</td>
<td>40 Gbps with 10 Gbps handoff</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Nampa High School</td>
<td>203 Lake Lowell Ave.</td>
<td>40 Gbps with 10 Gbps handoff</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Columbia High School</td>
<td>301 S. Happy Valley Rd.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Gateways Elementary and Secondary</td>
<td>94 N. Canyon St.</td>
<td>1 Gbps</td>
<td>1 Gbps</td>
</tr>
<tr>
<td>West Middle School</td>
<td>28 S. Midland Blvd.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>South Middle School</td>
<td>229 W. Greenhurst Rd.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Lone Star Middle School</td>
<td>11055 Lone Star Rd.</td>
<td>40 Gbps with 10 Gbps handoff</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>East Valley Middle School</td>
<td>4085 E. Greenhurst Rd.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Willow Creek Elementary School</td>
<td>198 N. Elementary Ln.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Snake River Elementary School</td>
<td>500 Stampede Dr.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Sherman Elementary School</td>
<td>1521 E. Sherman Ave.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Ronald Reagan Elementary School</td>
<td>3400 Southside Blvd.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Park Ridge Elementary School &amp; Treasure Valley Leadership Academy</td>
<td>3313 Parkridge Dr.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Owyhee Elementary School</td>
<td>2300 W. Iowa Ave.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>New Horizons Elementary School</td>
<td>5226 Southside Blvd.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>School Name</td>
<td>Address</td>
<td>Speed 1</td>
<td>Speed 2</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>-----------------------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Nampa Early Childhood Learning Center &amp; Greenhurst Elementary School</td>
<td>1701 Discovery Pl.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Lake Ridge Elementary School</td>
<td>615 Burke Ln.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Iowa Elementary School</td>
<td>626 W. Iowa</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Franklin D. Roosevelt Elementary School</td>
<td>1901 W. Roosevelt</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Endeavor Elementary School</td>
<td>2824 E. Victory Rd.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Central Elementary School</td>
<td>1415 -- 5th St. S.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
<tr>
<td>Centennial Elementary School</td>
<td>522 Mason Ln.</td>
<td>1 Gbps</td>
<td>10 Gbps</td>
</tr>
</tbody>
</table>
Appendix B Current Wide Area Network Logical Design

Figure 1: WAN Logical Design
Appendix C E-rate Special Construction
Excess Strands - Cost Allocation Scenarios
Funding Year 2018
Prepared by the State E-rate Coordinators’ Alliance
October 23, 2017

LEASED LIT FIBER AND LEASED DARK FIBER
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. 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.

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 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.

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.
Table 1: Here is a table outlining some possible incremental costs:

<table>
<thead>
<tr>
<th>Item</th>
<th>12 Strand cable construction</th>
<th>48 strand cable construction</th>
<th>Cost Allocation Amount that service provider should remove from the special construction request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Cable</td>
<td>38 cents per foot</td>
<td>$1.04 per foot</td>
<td>66 cents per foot</td>
</tr>
<tr>
<td>Design and Engineering</td>
<td>$2.12 per foot</td>
<td>$2.42 per foot</td>
<td>30 cents per foot to depict additional splices at A and Z locations</td>
</tr>
<tr>
<td>Project Management</td>
<td>$1.18 per foot</td>
<td>$1.18 per foot</td>
<td>0</td>
</tr>
<tr>
<td>Splice labor*</td>
<td>$11.00 per splice</td>
<td>$11.00 per splice</td>
<td>$11 per splice over 12 splices at any splice site</td>
</tr>
<tr>
<td>Splice enclosures**</td>
<td>$205 per enclosure</td>
<td>$205 per enclosure</td>
<td>$205 per enclosure for every enclosure over 12</td>
</tr>
<tr>
<td>Fiber Patch Panel</td>
<td>$71.43 per panel</td>
<td>$218.60 per panel</td>
<td>$147.17 per panel</td>
</tr>
<tr>
<td>Conduit and other structured materials</td>
<td>1.25” conduit required $1.95 per foot</td>
<td>1.5” conduit required $2.35 per foot</td>
<td>40 cents per foot</td>
</tr>
<tr>
<td></td>
<td>Handhole (40,000 lb rated) $2695 per unit</td>
<td>Handhole (40,000 lb rated) $2695 per unit</td>
<td>No cost difference for handhole</td>
</tr>
<tr>
<td></td>
<td>Fiber Marker $30 per unit</td>
<td>Fiber marker $30 per unit</td>
<td>No cost difference per marker</td>
</tr>
<tr>
<td>Fiber Installation Labor ***</td>
<td>25 cents per foot</td>
<td>28 cents per foot</td>
<td>3 cents per foot</td>
</tr>
<tr>
<td>Structured Materials Installation (conduit, markers, handholes)**</td>
<td>$2.85 per foot</td>
<td>$3.10 per foot</td>
<td>25 cents per foot</td>
</tr>
<tr>
<td>Markers</td>
<td>Place every 500’</td>
<td>Place every 500’</td>
<td>No cost difference</td>
</tr>
<tr>
<td>Handholes</td>
<td>Place every 1000’</td>
<td>Place every 1000’</td>
<td>No cost difference</td>
</tr>
</tbody>
</table>
Appendix D Demarcation Locations by Building

Figure 2: Centennial Elementary Demarcation and MPOP
Figure 4: Columbia High School Demarcation and MPOP
Figure 5: District Office Demarcation and MPOP
Figure 6: East Valley Middle School Demarcation and MPOP
Figure 7: Gateways Demarcation and MPOP
Figure 8: Nampa Early Childhood & Greenhurst Elementary Demarcation and MPOP
Figure 9: Iowa, Parkridge/TVLA, & Sherman Elementary Schools Demarcation and MPOP
Figure 10: Lone Star Middle School Demarcation and MPOP
Figure 13: Skyview High School Demarcation and MPOP
Figure 14: Snake River Elementary Demarcation and MPOP
Figure 16: Technology Center Demarcation and MPOP

Figure 17: Union High School Demarcation and MPOP
Figure 18: Warehouse Demarcation and MPOP
Figure 19: West Middle School Demarcation and MPOP
Figure 20: Endeavor, New Horizons, & Willow Creek Elementary Schools Demarcation and MPOP
Appendix E Existing Networking Equipment

Based on the current topology

<table>
<thead>
<tr>
<th>Location (Building Name and Closet Location)</th>
<th>Brand</th>
<th>Model</th>
<th>Connectivity Module Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Middle MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>South Middle MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>East Valley Middle MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Columbia High MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Sherman Elementary MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Iowa Elementary MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Centennial Elementary MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Central Elementary MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Lakeridge Elementary MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>New Horizons Magnet MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Endeavor Elementary MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Willow Creek Elementary MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Reagan Elementary MDF</td>
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<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Owyhee Elementary MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
<tr>
<td>Roosevelt Elementary MDF</td>
<td>HPE/Aruba</td>
<td>J9990A</td>
<td>J9153D 10G SPF+ LC ER 40Km SMF 1550nm</td>
</tr>
</tbody>
</table>