**Rolla 31 Public School District**

**Invitation for Competitive Bid
ERATE Program FY26****Internal Connections – Rolla Middle School, Mark Twain Elementary and Col. John B. Wyman Elementary.**

**This is a project for cabling and racks at these three school sites. Vendors are required to bid all of the requested equipment/cabling for all three sites.**

**Instructions to Vendors**

Award of this invitation for completive bid is contingent upon the approval of funding from the Schools and Libraries Universal Service Administrative Company. The successful bidder agrees to bill and receive a portion of the payment for the provision of goods and services described herein directly from the Universal Service Administrative Company (USAC), and/or the Schools and Libraries Division (SLD). Rolla 31 Public School District and the successful bidder will act in a reasonable manner and comply with any Schools and Libraries Universal Service Fund Program Requirements.

Contract will take effect on July 1, 2023 and continues through September 30, 2024. Should an extension be permitted by the Schools and Libraries Service Administrative Company the contract will be extended accordingly.

1. All questions or inquiries concerning this Invitation for Competitive Bids must be submitted through the CRW Consulting website for the appropriate ICFB.
2. All bids or proposals concerning this Invitation for Competitive Bids must be submitted through the CRW Consulting website for the appropriate ICFB.
3. If a contract is to be awarded as a result of the invitation for completive bid, it shall be awarded to the proponent who is responsible and whose proposal provides the best potential value to the Rolla 31 Public School District. Responsible means the capability in all respects to perform the contract requirements and the integrity and reliability to assure performance of the contract obligations.
4. Notice in writing to a proponent and the subsequent execution of a written agreement shall constitute the making of a contract. No proponent shall acquire any legal or equitable rights or privileges whatever until the contract is signed.
5. The contract will contain the relevant provisions of this invitation for completive bid and of the successful proposal, as well as such other terms as may be mutually agreed upon, whether arising from the proposal or as a result of any negotiations prior or subsequent thereto.
6. In the event of any inconsistency between invitation for completive bid, and the ensuing contract, the contract shall govern.
7. The Rolla 31 Public School District has the right to cancel this invitation for completive bid at any time and to reissue it for any reason whatsoever without incurring any liability and no proponent will have any claim against the Rolla 31 Public School District as a consequence.
8. Any amendments made by the Rolla 31 Public School District to the invitation for completive bid will be issued in writing and sent to all that have received the documents.
9. The Rolla 31 Public School District is not liable for any costs of preparation or presentation of proposals.
10. An evaluation committee will review each proposal. The Rolla 31 Public School District Board of Education will choose the winning proposal based on the evaluation factors for award. The Rolla 31 Public School District reserves the exclusive right to determine the qualitative aspects of all proposals relative to the evaluation criteria.
11. The proposal and accompanying documentation submitted by the proponents are the property of the Rolla 31 Public School District and will not be returned.
12. Vendor proposal in response to the IFCB will be incorporated into the final agreement between Rolla 31 Public School District and the selected vendor. The submitted proposal at a minimum should include the following sections:
* Services Rendered, project schedule and scope of work
* Itemized Pricing and Total Sheet Summary
* Exclusions
* Rolla 31 Public School District and Vendor Responsibilities
* Fees and Payments
* Legal Terms and Conditions
1. Vendors must include references for projects of similar size and scope that have been completed within the past two years. These references must be schools or school districts and contain the following:
* Job Location
* Contact name and telephone numbers
* Dates of contract
* Projection description
* Equipment installed
1. Vendors are to indicate which equipment or material of their proposal is ineligible for funding according to the SLD’s rules.
2. The mandatory walk-through for this project will be Wednesday, October 27, 2022 at 10:00am and Tuesday, November 3, 2022 at 10:00am. Meet in the Rolla Middle School office. The address is 1111 Soest Road, Rolla, MO. 65401

**Bid Conditions**

* It is required by the district that the contractor is a current BICSI member in good standing. It is also the preference of the district that the contractor have at least one Registered Communications Distribution Designer (RCDD) certification.
* One or more BCSI Certified (Level II) or Certified Network Cable Installer are (CNCI) required on-site during the entirety of the installation.
* Contractor shall provide references showing experience on similar size projects listing the name of the project, contact name, telephone number and a brief description of the project and completion date. The school representative reserves the right to contact any and all references to determine qualifications for the project.
* Contract shall provide a project manager for the installation who shall act as a single point of contact for all activities regarding the project. Contractor’s project manager shall be responsible for all aspects of the work, shall have the authority to make immediate decisions regarding changes to the work and shall document progress via various status meetings with the School Representative.
* Contractors are responsible for all errors or omissions in their bids, and any such errors or omissions will not server to diminish their obligations to the Rolla 31 Public School District.
* The contractor, performing as an independent contractor hereunder, shall be fully responsible for providing Worker’s Compensation or other applicable insurance coverage for itself and its employees. Rolla 31 Public School District shall have no responsibility of liability for such insurance coverage.

 **Purpose of IFCB**

To solicit from qualified service providers the replacement of the antiquated network cabling for a portion of the Rolla Middle School. This project is for providing network and Internet access. The scope of the project will be as follows:

**Equipment and Hardware**

* All equipment and material should be new. Used, refurbished or repurposed equipment or material will not be acceptable.
* Ensure interoperability with existing network infrastructure.

**Installation and Configuration**

* The winning vendor will install network cabling and all components where needed.
* Installation of network cabling, all components, and related equipment must be completed between July 1, 2023 and August 1, 2023 or between July 1, 2024 and August 1, 2024, during summer recess of school classes.

 **Connectors**

* The winning vendor must provide all required connectors for all patch panels and cable connections for the appropriate cabling and speeds of network ports.

**Cable System Testing and Documentation**

* The winning vendor must provide a record of installation information to include the following: Cable identifier, Cable point of origin, cable destination, cable type, cable rating, cable distance/length, termination hardware and type.
* The contractor will be provided with one (1) set of drawings at the start of the project. The set will be designated as the central location to document information as it occurs throughout the project. Anticipated variations from the build to drawings may be for such things as cable routing and actual outlet placement. No variations will be allowed to the planned termination positions of the horizontal and backbone cables, and ground conductors unless approved by the schools’ project manager.
* The Contractor shall provide the central drawing set to the owner at the conclusion of the project. The marked-up drawing set will accurately depict the as-built status of the system including termination locations, cable routing, and all administration labeling for the cable system. In addition, a narrative will be provided that describes any areas of difficulty encountered during the installation that could potentially cause problems to the telecommunications system.
* Submit Test Results for all installed cabling verifying compliance with all current UTP Channel test requirements. An electronic copy of the test results must be submitted to Owner. Test results must also be provided to the Owner in printed form. Testing equipment used must be certified, using up-to-date industry standards and less than 6 years old.
* Test each pair of each cable for opens, shorts, grounds, and pair reversal. Copper cable shall be tested along the full channel from end of patch cable to end of patch cable.
* Test documentation shall be provided electronically within three weeks after the completion of the project. The file shall be clearly marked named “Middle School Cabling Test Results 2022,” and the date of completion (month and year). The test document shall detail the test method used and the specific settings of the equipment during the test. Results should include: Wire Map, Length, Attenuation, Insertion Loss, Delay, Delay Skew and Return Loss.

**Inventory**

* The winning vendor will be expected to turn in a completed inventory spreadsheet at the completion of the project of all hardware and parts used during the installation.
* The winning vendor will input serial numbers, make, models, and locations of all hardware installed.
* The winning vendor will input type, count and length (if applicable) of materials used that do not have serial numbers.

**Proposal Requirements and Project Scope**

The scope of work consists of all labor to define a complete and functional replacement for the antiquated network cabling connected to the network main distribution frame (MDF) for the Rolla Middle School. New cabling requirements will consist of Cat6 and Cat6a cabling. The intent is to provide all pertinent information to allow the vendor to bid a complete installation.

Installation of approximately 149 network cable drops to 21 classrooms and common areas.

Removal of all existing Cat3, Cat5, Cat5e and coaxial cable drops.

Reconfiguration of the MDF will be required, along with re-installation of any networking hardware equipment removed for installation of new cabling to include, but not limited to, switches, UPS, communication appliances, etc.

The installation must meet or exceed all current TIA/EIA specifications listed below. This work includes, but is not limited to, installation of copper cable, terminators, face plates, outlets, labeling, documentation, testing and certification for a telecommunications cabling system to support voice, data and video applications. All materials will be supplied by the contractor.

Take extra precautions to retain HVAC system wiring where applicable.

District data materials standards are Hubbell, Panduit and Leviton or functional equivalent.

District patch cable standards are Cat6 High-Flex **Mini** Patch Cable

The data cabling color coding standards for the district are as follows:

|  |  |
| --- | --- |
| Copper Cabling Color | Purpose |
| Blue | Data |
| White | Wireless Access Point |
| Black | Camera |
| Green | IP Clock |

Vendors should also include patch cables for wire type and correct color in their proposal.

**Backbone Cable Distribution Installation**
The backbone cables shall be routed and supported in the supplied cable tray or conduit in a way as to not interfere with any other cable inside cable tray or conduit. Core holes and conduits required are the responsibility of the installing contractor. Fiber cables are to be installed in this same manner along a different path in the supplied cable tray.

All backbone cable shall be installed in the following manner:

* Backbone cabling will be installed separately from horizontal distribution cables.
* Where cables are housed in conduits, the backbone and horizontal cables shall be installed in separate conduits or in separate inner ducts within conduits.
* Where backbone cables and distribution cables are installed in a cable tray, backbone cables shall be installed and bundled separately from the horizontal distribution cables.
* Cables shall be installed in continuous lengths from origin to destination (no splices). Cables must be unbroken runs between wire closet and destination. No cross connects or transition points shall be allowed for any cables or fiber except for termination into patch panels in wire closet.

Open Cable Support and Installation Pathways

* Where cables are indicated to be installed as 'Open Cabling', cable supports shall be installed to allow cabling to be grouped and run along a common path. Cables shall run parallel or at right angles to the building structure, and shall not be looped diagonally across the ceiling space. Cables shall be loosely bundled with cable ties at 30 inches on center. Provide plenum rated Teflon cable ties in spaces used to handle environmental air. Provide Velcro-style cable management at workstation and closet. No cable ties are to be used in the closet, or at the workstation. Do not support cables from ductwork; sprinkler piping, water piping, waste piping or electrical conduit. Provide cable saddles for up to 10 cables and J-Hooks for 11 or more cables (Caddy) if cable tray is not installed. Cable supports shall be permanently anchored to building structure or substrates. Provide attachment hardware and anchors designed for the structure to which attached, and that are suitably sized to carry the weight of the cables to be supported.
* Cable shall be installed above fire-sprinkler systems and shall not lie on lights or within 6” of any power and shall not be attached to the system or any ancillary equipment or hardware. The cable system and support hardware shall be installed so that it does not obscure any valves, fire alarm conduit, boxes, or other control devices.
* Cables shall not be attached to ceiling grid or lighting support wires. Where light supports for drop cable legs are required, the contractor shall install clips to support the cabling.
* Any cable damaged or exceeding recommended installation parameters during installation should be replaced by the contractor prior to final acceptance at no cost to the Owner.
* Cables shall be identified by a self-adhesive label in accordance with the Cable System Labeling section of this specification. The cable label shall be applied to the cable behind the faceplate on a section of cable that can be accessed by removing the cover plate. Faceplates will be labeled with the same identifiers as each cable.
* Maximum size cable bundles shall be 75 cables per J-Hook. Cable tray is to be utilized where specified.
* Maximum spacing for supports for open cable runs shall be 48".

Suggested materials for MDF, classroom and office spaces (contractor will supply a complete list:

|  |
| --- |
| BERK-TEK LANmark-6, Category 6, Plenum UTP Cable, Blue, 1000’ |
| BERK-TEK LANmark-10G2, Category 6A, Plenum UTP Cable, White |
| Hubbell or Leviton RJ45 |
| Hubbell or Leviton Cat6A Shielded MINI Patch cable, 3’, WHITE |
| Hubbell or Leviton Cat6A Shielded MINI Patch cable, 5’, WHITE |
| Hubbell or Leviton Cat6A Shielded MINI Patch cable, 7’, WHITE |
| Hubbell or Leviton Cat6 Shielded MINI Patch cable, 3’, BLUE |
| Hubbell or Leviton Cat6 Shielded MINI Patch cable, 5’, BLUE |
| Hubbell or Leviton Cat6 Shielded MINI Patch cable, 7’, BLUE |
| Hubbell or Leviton Wall plate, SNG Gang, 2-Port, Light Almond or Ivory |
| Hubbell or Leviton Wall plate, SNG Gang, 4-Port, Light Almond or Ivory |
| Panduit Horizontal Wire Management 1U |
| Velcro Tie Down |
| J-Hooks |
| Entry Sleeves above Classroom Doors (Fire rated) |

Vendors who wish to submit a bid proposal must attend one of the mandatory walk throughs for the project.

All responding vendors must be registered certified providers in the State of Missouri with the ability to supply services and installation to Rolla 31 Public School District. As per Board policy DJF-1 (AP), responding vendors’ location in the State of Missouri will be given preference. All responding companies must be in good standing with the SLD.

**Rolla 31 Public School District will accept competitive bids on the following to provide network and Internet access for the school building.**

|  |  |
| --- | --- |
| Qty. | Description |
| 125 or more | Category 6 network cabling drops |
| 24 or more | Category 6A network cabling drops |
| 4 or more | Category 6 network 48-port patch panels |

The following number of Cat6 network drops will be ineligible for E-rate service funding: 61 (cameras, paging, IP Clock)

**Purpose of IFCB**

To solicit from qualified service providers the replacement of the antiquated network rack hardware for the Mark Twain Elementary School. This project is for providing network and Internet access. The scope of the project will be as follows:

**Equipment and Hardware**

* All equipment and material should be new. Used, refurbished or repurposed equipment or material will not be acceptable.
* Ensure interoperability with existing network infrastructure.

**Installation and Configuration**

* The winning vendor will install the network rack and all components where needed.
* Installation of network rack and all components, related cabling and equipment must be complete between July 1, 2023 and August 1, 2023 or July 1, 2024 and August 1, 2024, during summer recess of school classes.

**Connectors**

* The winning vendor must provide all required connectors for all patch panels and cable connections for the appropriate cabling and speeds of network ports.

**Inventory**

* An Excel template will be provided to the winning vendor at the start of the project. The winning vendor will be expected to turn in a completed inventory spreadsheet at the completion of the project of all hardware and parts used during the installation.
* The winning vendor will input serial numbers, make, models, and locations of all hardware installed.
* The winning vendor will input type, count and length (if applicable) of materials used that do not have serial numbers.

**Proposal Requirements and Project Scope**

The scope of work consists of all labor to define a complete and functional replacement for the network main distribution frame (MDF) rack for the Mark Twain Elementary School. The intent is to provide all pertinent information to allow the vendor to bid a complete installation.

Removal of antiquated wall mounted network rack, patch panels, patch cables, connectors and components. Take extra precautions to retain HVAC system wiring where applicable.

Installation of new 2-post network rack, patch panels, termination of in place network wiring to new connectors and patch panels, patch cables, testing, certification, and documentation. Reconfiguration of the MDF will be required, along with re-installation of any networking hardware equipment removed for installation of new rack and accessories to include, but not limited to, switches, UPS, communication appliances, etc.

The installation must meet or exceed all current TIA/EIA specifications listed below. This work includes, but is not limited to, installation of copper cable, terminators, face plates, outlets, labeling, documentation, testing and certification for a telecommunications cabling system to support voice, data and video applications.

The data cabling color coding standards for the district are as follows:

|  |  |
| --- | --- |
| Copper Cabling Color | Purpose |
| Blue | Data |
| White | Wireless Access Point |
| Black | Camera |
| Green | IP Clock |

District data materials standards are Hubbell, Panduit and Leviton (or functional equivalent)

District patch cable standards are Cat6 High-Flex **Mini** Patch Cable

Vendors should also include patch cables for wire type and correct color in their proposal.

Vendors who wish to submit a bid proposal must complete one of the mandatory walk throughs for the project.

All responding companies must be registered certified providers in the State of Missouri with the ability to supply services and installation to Rolla 31 Public School District. As per Board policy DJF-1 (AP), responding companies’ location in the State of Missouri will be given preference. All responding companies must be in good standing with the SLD.

**Rolla 31 Public School District will accept competitive bids on the following network rack hardware to provide network and Internet access for the school building.**

|  |  |
| --- | --- |
| Qty. | Description |
| 1 or more | Hubbell 2-Post Network Rack or equivalent |
| 2 or more | Panduit Vertical Wire Management or equivalent |
| 6 or more | Panduit Horizontal Wire Management 1U |
| 5 or more | Hubbell 48-Port Network Patch Panels or equivalent |
| 1 or more | Hubbell 12” Ladder Rack 10’ Stick or equivalent |
| 1 or more | Hoffman Cabling Runways or equivalent |
| 1 or more | Hubbell Grounding Busbar and ground lugs or equivalent |

**Purpose of IFCB**

To solicit from qualified service providers the replacement of the antiquated network rack hardware for the Wyman Elementary School. This project is for providing network and Internet access. The scope of the project will be as follows:

**Equipment and Hardware**

* All equipment and material should be new. Used, refurbished or repurposed equipment or material will not be acceptable.
* Ensure interoperability with existing network infrastructure.

**Installation and Configuration**

* The winning vendor will install the network rack and all components where needed.
* Installation of network rack and all components, related cabling and equipment must be complete between July 1, 2023 and August 1, 2023 or July 1, 2024 and August 1, 2024 during summer recess of school classes.

**Connectors**

* The winning vendor must provide all required connectors for all patch panels and cable connections for the appropriate cabling and speeds of network ports.

**Inventory**

* An Excel template will be provided to the winning vendor at the start of the project. The winning vendor will be expected to turn in a completed inventory spreadsheet at the completion of the project of all hardware and parts used during the installation.
* The winning vendor will input serial numbers, make, models, and locations of all hardware installed.
* The winning vendor will input type, count and length (if applicable) of materials used that do not have serial numbers.

**Proposal Requirements and Project Scope**

The scope of work consists of all labor to define a complete and functional replacement for the network main distribution frame (MDF) for the Wyman Elementary School. The intent is to provide all pertinent information to allow the vendor to bid a complete installation.

Removal of antiquated network rack, patch panels, patch cables, connectors and components. Take extra precautions to retain HVAC system wiring where applicable.

Installation of new 2-post network rack, patch panels, termination of in place network wiring to new connectors and patch panels, patch cables, testing, certification, and documentation. Reconfiguration of the MDF will be required, along with re-installation of any networking hardware equipment removed for installation of new rack and accessories to include, but not limited to, switches, UPS, communication appliances, etc.

The installation must meet or exceed all current TIA/EIA specifications listed below. This work includes, but is not limited to, installation of copper cable, terminators, face plates, outlets, labeling, documentation, testing and certification for a telecommunications cabling system to support voice, data and video applications.

The data cabling color coding standards for the district are as follows:

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| Copper Cabling Color | Purpose |
| Blue | Data |
| White | Wireless Access Point |
| Black | Camera |
| Green | IP Clock |

District data materials standards are Hubbell, Panduit and Leviton (or functional equivalent)

Vendors who wish to submit a bid proposal must complete one of the mandatory walk throughs for the project.

All responding companies must be registered certified providers in the State of Missouri with the ability to supply services and installation to Rolla 31 Public School District. As per Board policy DJF-1 (AP), responding companies’ location in the State of Missouri will be given preference. All responding companies must be in good standing with the SLD.

Rolla 31 Public School District will accept competitive bids on the following network rack hardware to provide network and Internet access for the school building.

|  |  |
| --- | --- |
| Qty. | Description |
| 1 or more | Hubbell 2-Post Network Rack or equivalent |
| 2 or more | Panduit Vertical Wire Management or equivalent |
| 6 or more | Panduit Horizontal Wire Management 1U |
| 6 or more | Hubbell 48-Port Network Patch Panels or equivalent |
| 1 or more | Hubbell 12” Ladder Rack 10’ Stick or equivalent |
| 1 or more | Hoffman Cabling Runways or equivalent |
| 1 or more | Hubbell Grounding Busbar and ground lugs or equivalent |

**Award of project**

Contingent upon funding from the SLD