

NOTICE TO RESPONDENTS

Responses to an Invitation to Bid will be received by the Purchasing Supervisor in the SUPPORT SERVICE

Invitation for Competitive Bid

Sumner County School District

695 E. Main Street
Gallatin, TN 37066

General Bid Specifications

Due Date for Bids: 9 AM Central Time on December 17, 2015.

Questions should be directed to Chris Brown at chris.brown@sumnerschools.org

Questions must be received by 12:00 Noon on December 11, 2015

Walkthrough will be (in this order):

Guild Elementary, R T Fisher, Rucker Stewart Middle, Howard Elementary, George Whitten Elementary at 8:00 AM on Monday December 7th, 2015

North Sumner Elementary, Watt Hardison Elementary, Portland East Middle, Clyde Riggs Elementary, Oakmont Elementary at 8:00 AM on Tuesday December 8th, 2015

Bids should be sealed and mailed to:

**Sumner County School District
ATTN: Vicky Currey – Purchasing Supervisor
1500 Airport Road
Gallatin, TN 37066**

PLEASE STATE ON THE OUTSIDE OF ENVELOPE – “Sumner County Infrastructure Upgrade”, THE DATE OF THE RFP OPENING. THE NAME AND ADDRESS OF FIRM SUBMITTING RFP SHOULD ALSO BE LISTED ON OUTSIDE OF ENVELOPE.

The material and/or services delivered under this proposal shall remain the property of the seller until a physical inspection and actual usage of this material and/or services is accepted to the satisfaction of the County and is to be in compliance with the terms, herein, fully in accord with the specifications and be of the highest quality. In the event the materials and/or services supplied to the County is found to be defective or does not conform to specifications, the County reserves the right to cancel the order upon written notice to the seller and return such product to the seller at the seller's expense.

No RFP may be withdrawn for a period of 90 days after the scheduled time for receiving the proposals. RFPs must be submitted on the forms provided by Sumner County or the proposal will be deemed unacceptable. **BE SURE TO FOLLOW INSTRUCTIONS ON COMPLETING THE SEALED ENVELOPE. SEE FORM ATTACHED.**

As required under the provisions of T.C.A § 50-9-114 this serves as notification that Sumner County operates a Drug Free Workplace Program. Vendors will also be required to submit a Drug Free Workplace Affidavit as required under the provisions of T.C.A § 50-9-113. The affidavit states that employers with five (5) or more employees who contract with either the State or a local government to provide construction services are required to submit an affidavit stating that they have a drug free workplace program that complies with Title 50, Chapter 9. **SEE FORM ATTACHED**

Vendors will be required to submit a Certificate of Compliance with Tennessee Public Chapter 587. TPC587 requires persons, employees of the person or corporation that have direct contact with school

children or access to school grounds when children are present to have supplied to the corporation a fingerprint sample and have conducted a criminal history records check by the Tennessee Bureau of Investigation and the Federal Bureau of Investigation prior to permitting the person to have contact with such children or enter school grounds. **SEE FORM ATTACHED.**

The Telecommunications Act of 1996 established a fund by which Schools and Libraries across the Country could access discounts on eligible telecommunications products and services. The program is commonly known as the E-rate Program. The eligibility for discounts on internet access, telecommunications products and services, internal connection products, services and maintenance is determined by the Federal Communications Commission (FCC). Funding is made available upon application approval by the Schools and Libraries Division (SLD) of the Universal Service Administrative Company (USAC), which was established by the Act. The amount of discount is based on the numbers of students receiving free and reduced price meals. Vendors are required to submit compliance with the E-rate Terms & Conditions. **SEE FORM ATTACHED.**

SUMNER COUNTY TENNESSEE
TCA 62-6-119
BID COMPLIANCE FORM

NOTE: This form MUST be attached to the sealed envelope containing the bid. Failure to provide all of this information on the sealed envelope shall void such bid.

DELIVER TO: Sumner County School District
ATTN: Vicky Currey – Purchasing Supervisor
1500 Airport Road
Gallatin, TN 37066

BID _____

DATE OF BID _____ TIME _____

PRIME CONTRACTOR'S IDENTIFICATION

Name _____

Address _____

TN License Number _____

Expiration Date _____

Classifications _____

IS ENCLOSED BID LESS THAN \$25,000?

Yes _____ No _____

ITEM I OR II MUST BE COMPLETED IF THE BID EXCEEDS \$25,000

I. CONTRACTOR DOES NOT PLAN TO USE SUBCONTRACTORS FOR ANY PART OF THIS PROJECT.

Signature - Contractors Representative

**II. REQUIRED SUBCONTRACTOR'S IDENTIFICATION
ELECTRICAL SUB-CONTRACTOR**

Name _____

Address _____

TN License Number _____ Date _____

Expiration Date _____ Monetary Limit \$ _____

Classification _____

HVAC SUB-CONTRACTOR

DRUG FREE WORKPLACE AFFIDAVIT

STATE OF _____

COUNTY OF _____

The undersigned, principal officer of _____, an Employer of five (5) or more employees contracting with _____ County Government to provide construction services, hereby states under oath as follows:

1. The undersigned is a principal officer of _____ (hereinafter referred to as the "Company"), and is duly authorized to execute this Affidavit on behalf of the Company.
2. The Company submits this Affidavit pursuant to T.C.A. § 50-9-113, which requires each employer with no less than five (5) employees receiving pay who contracts with the state of any local government to provide construction services to submit an affidavit stating that such employer has a drug-free workplace program that complies with Title 50, Chapter 9 of the *Tennessee Code Annotated*.
3. The company is in compliance with T.C.A § 50-9-113.

Further affiant saith not.

Principal Officer

STATE OF _____

COUNTY OF _____

Before me personally appeared _____, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence) and who acknowledged that such person executed the foregoing affidavit for the purposes therein contained.

Witness my hand and seal at office this _____ day of _____, 20_____

Notary Public

My commission expires: _____

E-RATE TERMS AND CONDITIONS

1. The project herein is contingent upon the approval of funding from the Universal Service Fund's Schools and Libraries Program, otherwise known as E rate.
2. The District expects Service Providers to make themselves thoroughly familiar with any rules or regulations regarding the E-rate program.
3. Service Providers are required to be in full compliance with all current requirements and future requirements issued by the SLD throughout the contractual period of any contract entered into as a result of this RFP.
4. Service Providers are responsible for providing a valid SPIN (Service Provider Identification

12. Even after award of contract(s) and/or E-rate funding approval is obtained, the District may or may not proceed with the project, in whole or in part. Execution of the project, in whole or in part, is solely at the discretion of the District.

13. The awarded Service Provider **must** provide the District a bill of materials using a completed USAC "Item 21 Template" within 2 weeks of the Contract Award Date. Subsequent schedules of values and invoices for each site must match Item 21 Attachment or subsequent service substitutions.

14. In the event of questions during an E-rate pre-commitment review, post-commitment review and/or audit inquiry, the awarded Service Provider is expected to reply within 3 days to questions associated with its proposal.

15.

Contracts

All contracts awarded will be contingent upon E-Rate funding and final Board approval unless otherwise noted. The applicant may choose to do all or part of the project upon funding notification.

Contracts for network equipment must state that equipment can be delivered from April 1, 2016 until September 30, **2018**. Purchase (and installation if included) can occur anytime during this period at the contracted prices. Any price fluctuation during the contract term must be identified.

Method of Award and Evaluation

Award shall be made to the vendor whose proposal is scored with the highest point total based on the Evaluation Criteria detailed below. The evaluation, scoring and award decision of the District shall be final.

The District reserves the right to reject any and all proposals, to contract products and services with whomever and in whatever manner the District decides, to abandon the products entirely, and to waive any informality on non-substantive irregularity as the interest of the District may require.

The District reserves the right to make an award of this proposal any time up to 90 days from the date of proposal opening.

Evaluation Criteria:

Award of the bid will be based on the following criteria:

Price-Erate Items	30
20 - 30 point for lowest bidders	
10 - 19 points for mid-range	
0 - 9 points for highest bidders	
Price-Other Costs	5
Non-erateable items	
Technical Merit/Completeness of Bid	25
Bid meets the technical needs requested	
Completed all bid requirements	
Prior Experience	20
Similar projects and references	
Experience with this provider	
Personnel Qualifications	10
Staff	
Management	
Responsiveness	10
Responsive to email, walk thrus, etc.	
Proximity of offices	
Local representative available	
Total Points:	100

Functional Equivalentents

Proposals are requested on products that are the functionally equivalent or better than the brands listed below. **References to brand names, trade names, model numbers, or other descriptions are made to establish a required level of quality and functional capabilities and are not intended to exclude other manufacturers.**

Sumner County BOE Voice and Data Technical Specification

PART 1- GENERAL

1.1 SCOPE

- A. This document defines the products and the execution requirements required to furnish and install a complete distribution system utilizing a structured cabling system.
- B. All cables and related terminations, support and grounding hardware shall be furnished, installed, tested, labeled, and documented by the structured cabling contractor as detailed in this document.
- C. The distribution system shall be all-inclusive and represent a complete installation at the sites shown on the attached drawings in the attached specifications. The Vendor shall be responsible for all parts, labor, and all other associated apparatus necessary to complete, install, test and turnover for acceptance by the Sumner County BOE the cabling system detailed herein by.
- D. Product specifications and general design considerations are provided in this document. Quantities of telecommunication outlets, typical installation details, cable routing and outlet types are indicated on the plans.
- E. The contractor shall include Bill of Materials and Scope of Work with each bid. Sumner County BOE desires a quality Cat 6e Panduit General or equivalent solution with a 25 year warranty for the voice and data infrastructure network.

1.2 APPLICABLE STANDARDS

- A. Vendor performance of the work shall comply with all applicable federal, state, and local laws, rules, and regulations. Vendor shall give required notices, and procure necessary governmental licenses a

D.

PART 2- PRODUCTS

2.1 EQUIVALENT PRODUCTS

- A. Due to the nature and type of communications network desired Sumner County BOE has decided upon a Panduit or equivalent Category 6e solution for our voice and data infrastructure network.
- B. All copper and fiber connectivity products, including but not limited to patch panels, jacks, connectors, wire management, and faceplates, shall be manufactured by Panduit or equivalent
- C. All copper cable shall be manufactured by General Cable or equivalent

G. The contractor shall terminate all jack

U. Close out documents:

1. Provide (3) copies of As built's in hard copy and (1) copy Auto Cad format listing each cable number.
2. Provide Test documentation in hard copy and in electronic format.

2.3 APPROVED PRODUCTS

- x Connectivity : Panduit or equivalent
- x Horizontal Cable: General Cable or equivalent
- x Fiber and Backbone Cable: General Cable or equivalent
- x Outside Plant Copper : General Cable or equivalent

A. Voice/ Data jacks / Video

1. Mini-Com TX6™ Category 6 Jack Modules. The eight position modules shall be used in all work areas and in all Modular Patch Panel Frames. Terminations shall be accomplished by use of a forward motion termination cap and shall not require the use of a punch down tool. The termination cap shall provide strain relief on the cable jacket, ensure cable twist and are maintained to within 1/8" and include a wiring scheme label.
2. All terminations shall be T568 (B) for this project unless directed otherwise by customer.

Approved Product Panduit or
equivalent CJ6X88TGBU
CJ6X88TGWH

B. Faceplates

Approved Products:

- a) Panduit or equivalent
 1. CFPL2XXY
 2. CFPL4XXY.
 3. CFFPL4, Flat,

C. Patch Panel (Data)

1. Angled modular Patch Panel design.
 - . Panduit or equivalent
 1. Angled 48 port patch panel – CPPA48FMWBLY

D. Blank Filler Plate

1. Panduit or equivalent
CPAF1BLY

E. Pathways

1. Approved product

- i. Panduit or equivalent J-Hooks

F. Rack System

- 1. Approved Product (Panduit or equivalent,CPI)

H. Horizontal & Horizontal Wire Management

- 1. Cable management shall be provided using the PatchLink or NetManager Horizontal Cable Management System.

- i. Approved Product Panduit or equivalent (or approved)

- 1. NM1, NM2, NM3 or NM4 Front & Rear
- 2. WMP1E, WMPH2E Front & Rear
- 3. PRV6,8,10,12
- 4. PRD6,8,12

I. Telecommunication Grounding Busbar and Accessories

Panduit or equivalent

- 1. GB4B0624TPI-1 TMGB
- 2. GB2B0312TPI-1 TGB

J. Fiber Enclosures

- 1. Approved Panduit or equivalent
Rack mount enclosure (FRME1U, FRME2U)

K. Fiber Cabling

- 1. Approved General Cable or equivalent interlocked Armor OFNP 12F MM 50um OM4 fiber (BL00121PNU-IPLA)
- 2. Approved General Cable (or equivalent) interlocked Armor OFNP 12F SM 50um OM4 fiber (AP00121PNU-IPLA)

L. Horizontal Cabling System

- 1. Copper UTP Horizontal Cable
- 2. Approved Product
 - i. General Cable (or equivalent)
 - 1. GS6000e CMP for Data (7131900) Blue
 - 2. GS6000e CMP for Voice (7131901) White
 - 3. GS6000e CMR for Data (7133900) Blue
 - 4. GS6000e CMR for Voice (7133901) White

3.1

equipment racks, cabinets, raceway, and associated hardware that has potential to act as a current carrying conductor. The TBB shall be installed independent of the building's electrical and building ground and shall be designed in accordance with the recommendations contained in the ANSI/TIS/EIA 607 Telecommunications Building and Grounding Standard.

- B. The main entrance facility/equipment room in each building shall be equipped with a telecommunications main grounding bus (TMGB). Each Telecommunications room shall be provided with a telecommunications ground bus bar (TGB). The TMGB shall be connected to the building electrical entrance grounding facility. The intent of this system is to provide a grounding system that is equal in potential to the building electrical ground system. Therefore, ground loop current potential is minimized between telecommunication equipment and the electrical system to which is attached.
- C. All racks, metallic backboards, cable trays, metallic strength members, splice cases, cable trays, etc. entering in the TIR shall be grounded to the respective TGB or TMGB using a #6 AWG stranded copper bonding conductor and compression connectors. Panduit or equivalent part no. RGCBNJ660P22
- D. All wires used for telecommunications grounding purposes shall be identified with a green insulation. Non-Insulated wires shall be identified at each termination point with a wrap of green tape. All cables and bus shall be identified and labeled in accordance with the System Documentation Section of this Specification.

4.1 FIRESTOP

- A. A firestop system is comprised of the items penetrating the fire rated structure, the opening in the structure and the materials assembly of the materials used to seal

5.2 HORIZONTAL DISTRIBUTION CABLE INSTALLATION

- A. All wiring above ceilings or below raised floor shall be installed in cable tray or open top cable hangers or provided conduit.
- B. Cable above accessible ceiling shall be supported 3 ft on center from cable support attached to building structure.
- C. The contractor shall be responsible for replacing all cables that do not pass appropriate cabling standards for which the equipment is designed.
- D. Maximum horizontal cable length 90 meters.
- E. Cable shall have no physical defects such as cuts, tears or bulges in the outer jacket. Cables with defects shall be replaced.
- F. Install cable in neat and workmanlike manner. Neatly bundle and tie all cables in closets. Leave sufficient cable for 90° sweeps at all vertical drops.
- G. Test, label and document as called for in the contract documents.

5.3 GROUNDING SYSTEM

- A. The TBB shall adhere to the recommendations of the ANSI/TIA.EIA-607 standard, and shall be installed in accordance with best practices.
- B. Installation and termination of the main bonding conductor to the building service entrance shall be performed by the electrical contractor.

5.4 RACKS

- A. Racks shall be securely attached to the concrete floor using minimum 3/8" hardware or as required by codes.
- B. Racks shall be placed with a minimum of 36 inch clearance from the walls on at least one side of the racks. When mounted in a row, maintain a minimum of 36 inches from the wall behind and in front of the row of racks.
- C. All racks shall be grounded to the telecommunications ground bus bar.
- D. Rack mount screws not used for the patch panels and other hardware shall be bagged and left with the rack upon completion of the installation.
- E. Wall mounted termination block fields shall be mounted on 4' x 8' x .75 void free plywood. The plywood shall be mounted vertically 12" above finished floor. The plywood shall be painted with two coats of grey fire retardant p.4(grey)-3.8()11(fm.)JTJ -5.3716 -

cable system infrastructure. All labeling information shall be recorded on the as-built drawings and all test documents shall reflect the appropriate labeling scheme.

- B. All label printing will be machine generated. No hand written labels will be allowed. Self laminating labels will be used on cable jackets, appropriately sized to the OD of the cable, and placed within view at the termination point on each end. Outlet, patch panel and wiring block labels shall be installed on or in the space provided on the device.

7.1 TESTING AND ACCEPTANCE

- A. All cables and termination hardware shall 100% tested for defects in installation and to verify cabling system performance under installed conditions according to

determined necessary by the Sumner County BOE, including 100% re-test. This re-test shall be at no additional cost to Sumner County BOE.

7.3 TEST RESULTS

- A. Test documentation shall be provided on disk within three weeks after completion of the project. The disk shall be clearly marked on the outside front cover with the words "Sumner County BOE (name of the project)" and the date of completion.(month and year) The test results shall include a record of test frequencies, cable type, conductor pair and cable (outlet) I.D, measurement direction, reference setup, and crew member name (S). The test equipment name, manufacturer, model number, serial number, software version and latest calibration date will be provided at the end of the document. The test document shall detail the test method used and the specific settings of the equipment during the test as well as the software version being used in the field test equipment.

8.1 AS-BUILT DRAWINGS

- A. The drawings are to include cable routes and outlet locations. Outlet locations shall be identified by their sequential number as defined elsewhere in this document. Numbering, icons, and drawing conventions used shall be consistent throughout all documentation provided. Sumner County BOE provide floor plans in paper and electronic (DWG, AutoCAD Rel 2002) formats on which as-built construction information can be added. These documents will be modified accordingly by the structured cabling contractor to denote as-built information as defined above and returned to the Sumner County BOE.
- B. The Contractors shall annotate the base drawings and return a hard copy (same plot size as originals) and electronic (AutoCAD rel. 2003 form).

8.2 WARRANTY

- A. The Vendor shall provide a 25 year extended product warranty with a 25 year application assurance warranty. The Vendor shall provide warranty directly to Sumner County BOE.
- B. A PanGen (or equivalent) Extended Product Warranty shall be provided which warrants functionality of all components used in the system for 25 years from the date of registration. The Extended Product Warranty shall warrant the installed horizontal copper and the backbone optical fiber portions of the cabling system.
- C. The Application Assurance Warranty shall cover the failure of the wiring system to support current or future applications that are designed for the link/channel

Sumner County BOE Voice and Data Technical Specification

Questions contact:

Sumner County BOE



