



# Provo City School District

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Provo School District  
280 West 940 North  
Provo, Utah 84604

February 14, 2019

## **REQUEST for SEALED PROPOSALS for Structured Cabling For Canyon Crest Elementary**

**PROVO CITY SCHOOL DISTRICT  
280 West 940 North Provo, Utah 84604**

## NOTICE TO CONTRACTORS

Provo City School District Technology Department seeks a Request for Proposal (RFP) for Structured Cabling for the following project(s): Canyon Crest Elementary. E-Rate spin number **is required** and must be on each bid that you submit.

For questions regarding this project, please contact:

Steve Ritchie  
Sr. Network Engineer  
Email: [erate19@provo.edu](mailto:erate19@provo.edu)  
Phone: 801-370-4611

Contact with any other district employee or school board member during the tentative timeline period will be grounds for disqualification.

Proposals must be submitted by email by 3:00 PM, MDT, on Wednesday, March 15, 2019 to: [erate19@provo.edu](mailto:erate19@provo.edu)

Provo City School District Technology Department reserves the right to reject any or all proposals, or to waive any formality or technicality in any proposal in the best interest of the Provo City School District. Provo City School District also reserves the right to determine equivalency. Additionally the District reserves the right to rely upon state bidding processes.

The proposal will be analyzed by the Provo City School District Erate committee.

Bids will be scored based on the following criteria:

1. Cost of eligible goods and service: 35%
2. Compatibility with existing infrastructure: 25%
3. Responsiveness to all the other terms and conditions of the RFP or Erate form 470: 15%
4. Prior experience with vendor: 15%
5. Local or in-state vendor: 10%

Award shall be made to the respondent deemed most capable of providing the complete system and support deemed to most effectively meet Provo City School District needs, taking into account the proposals and evaluation factors here outlined.

Tentative Timeline (Subject to modification)  
RFP Advertised: February 14, 2019  
Deadline for Questions: March 13, 2019  
RFP Response Deadline: March 15, 2019  
Proposal Evaluation: March 18, 2019-March 19, 2019  
Award Date: March 19, 2019

## Description of Work:

The Provo City School District is requesting proposals from qualified vendors interested in providing TIA compliant Data Network Cabling (Structured Cabling System). Cabling and all associated equipment must be CAT6/a compliant for copper. Cabling will be required to provide data to access points, computers and other equipment. Vendor will provide parts, materials, installation and testing.

The scope of the project includes:

- Installation of Category 6 and Category 6a (ANSI/TIA/EIA 568 B.2-1 & ISO/IEC 11801 Ed. 2.0) plenum (NFPA 262) cabling for data locations with a 6 ft. service loop at the designated Device Cable Termination (DCT)
- Termination of data cables at network patch panel using the TIA-568B standard
- Cable color (blue) and jacks color (white)
- Cables should be in available cable tray if cable tray is not available suspended every 4 feet in drop ceilings using J or D style hooks or in enclosed conduit
- Labeling patch panels and wall plate jacks with indelible labels/ink indicating closet location and unique identified port number
- Provide testing with documentation of cable runs to meet specifications – end-to-end
- The vendor must supply all supervision, tools, equipment, hardware, material, transportation, and construction, and all other related services unless specific provisioning by the customer has been denoted.
- The vendor will be responsible for repair of all damage to the building due to the negligence of its workers.
- During the contract period the vendor will abide by all fire and safety regulations. District/School Security Policies must be observed at all times.
- Upon completion of any repair, replacement or installation activity, the vendor must provide evidence of the completion with a successful test on said system with results provided to owner in owner specified format (s).
- The vendor will be responsible for the prompt correction of all defects in the system.
- The vendor must leave the premises clean and neat including having all ceiling tiles in place after each work session.
- Vendor must assume total responsibility for the actions of any/all subcontractors.
- Contractor must be a Commscope Uniprise or SYSTIMAX® certified installer, based upon respective system solution being bid.

## **Cabling/Installation Specifications:**

Responsive bidders will provide a complete design and itemized quotation for a Structured Cabling System consisting of:

- Runs of CAT6/a 4-pair PVC Jacketed wire plenum per DCT (device cable termination). Each run will be terminated at the DCT end in an RJ45 modular jack and at the Wiring Closet IDF/MDF end in an RJ45 Modular Patch Panel port. The District will provide rack space. Bidder is responsible for providing evidence that all materials and installation practices will meet or exceed BICSI and TIA specifications for CAT6/a plenum materials and installation. Design, manufacture, test, and install telecommunications cabling networks per manufacturer's requirements and in accordance with NFPA-70 (2005 edition of the National Electrical Code®), IEEE C2 2007 (NEC 2007), state codes, local codes, requirements of authorities having jurisdiction, and particularly the following standards:
  1. ANSI/NECA/BICSI-568-2006 – Standard for Installing Commercial Building Telecommunications Cabling ANSI/TIA/EIA Standards
  2. ANSI/TIA/EIA-568-B.1 – Commercial Building Telecommunications Cabling Standard, Part 1: General Requirements
  3. ANSI/TIA/EIA-568-B.2 – Commercial Building Telecommunications Cabling Standard, Part 2: Balanced Twisted Pair Cabling Components
  4. ANSI/TIA/EIA-569-B – Commercial Building Standard for Telecommunications Pathways and Spaces
  5. ANSI/TIA/EIA-606 (A) – The Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
- Install cabling in accordance with the most recent edition of BICSI® publications:
  1. BICSI – Telecommunications Distribution Methods Manual
  2. BICSI – Installation Transport Systems Information Manual
  3. BICSI – Network Design Reference Design Manual
  4. BICSI – Electronic Safety and Security Design Reference Manual
- Cableways must be utilized where available.
- Install all necessary cable support hardware for the Main Wiring Closet (MDF) to all station locations as per applicable standards and local codes. All cable will have its own support system (caddy clips, hangers etc).
- Cabling shall not be laid on ceiling grid structure, ceiling tiles or supported on any structure not specifically designed for supporting cables. If a cable tray is not present, provide cable supports at intervals of every 4-6 feet. Cable

supports shall be “J” hooks or other supporting devices with a minimum 1-inch cable-resting surface. Cable support devices shall be independently suspended from or attached to building structure or walls. Cable sag between supports shall not exceed 12 inches. All cables shall be neatly bundled and secured with Velcro.

- Cables should not be installed within 4-feet of transformers/motors, when running parallel of power conduits or fluorescent light fixtures maintain a 1-foot separation.
- Assume 1 J hook per cable (400)
- Install machine generated labels on both ends. Example 1-1000 where the number before the dash is the MDF/IDF number and the number after the dash is the drop number. MDF/IDF numbering will be determined with coordination from the District.
- Category 6a will be used for drops in the ceiling for the use of Wireless Access Points.
- Category 6 will be used everywhere for data/voice.
- Approximate number of drops for each category:

Number of drops	Category
330	6
70	6a

- Numbers of drops are subject to change depending need. If changed vendor will need to update bid to reflect change.
- CAT 6 cabling will be CommScope 2071E BL 4 or equivalent
- CAT 6a cabling will be CommScope 2091B BL 4 or equivalent
- The Vendor will provide 7 CommScope Cat6 48 port patch panels, part number 760152579 or equivalent; each patch panel will be spaced 1RU.
- The Vendor will provide 2 CommScope Cat6A 48 port patch panels, part number 760152595 or equivalent; each patch panel will be spaced 1RU.
- Location of drops will be determined at a later time with coordination from the District.
- 50’ Surface mount raceway per faceplate location (Panduit LD5IW8-A).
- Include 30’ of CPI 12” (Part# 10250-X12) ladder rack along with the necessary hardware for each telecommunications closet.
- Approximate 225’ Average length per cable drop.
- Wall plates will be 1 port. CommScope part number M10LE-262 or equivalent. Amount of ports per wall plate may change depending on need.
- Assume 1 wall plate per drop.
- Jacks for CAT 6 will be CommScope part number MGS400-262 or equivalent.
- Jacks for CAT 6a will be CommScope part number MGS600-262 or

equivalent.

- Provide 330 CAT 6 1-foot patch cable. SYSTIMAX part number CPC3312-02F001 or equivalent.
- Provide 70 CAT 6a 1-foot patch cable SYSTIMAX part number 360GS10E or equivalent.
- Provide 330 CAT 6 5-foot patch cable. SYSTIMAX part number CPC3312-02F001 or equivalent.
- Provide 70 CAT 6a 15-foot patch cable SYSTIMAX part number 360GS10E or equivalent.
- Drops that are in the ceiling will be terminated in a surface mount box. CommScope part number M102SMB-B-262 or M104SMB-A-270 (or equivalent) depending on need
- Testing of all installed cabling shall be performed to the latest revision of ANSI/TIA/EIA568B. All reports shall be recorded and presented to Provo City School District before acceptance. Testing of cabling shall be performed prior to system cut- over, 100 percent of the UTP horizontal and riser pairs shall be tested for opens, shorts, polarity reversals, transposition and presence of AC voltage. UTP voice, data and building control device horizontal wiring pairs shall be tested to TIA/EIA 568B latest addendums, from information outlet to the TC and from the TC to the information outlet. In addition, all assigned circuits shall be tested from the information outlet/building control device to the MDF.
- A digital, high quality, searchable pdf wire map must be given to the District before job is completed.