

SCOPE OF WORK

The District is soliciting proposals to sign a contract for the replacement of the wireless data cable infrastructure in its school buildings. General requirements, specifications, and expectations for the cable project are listed below. It is estimated that about 124,000 linear feet of data cabling will need to be replaced in the scope of this project. One school building on the list of site walks may no longer be in scope at the time of the walkthroughs, which would reduce that estimate by roughly 11,000 linear feet. This decision will be made at a Board of Education meeting on October 1, 2026, after the publication of this RFP, but prior to the walkthrough. The final determination of whether that building will be walked is to be communicated at the pre-bid conference. Only buildings that are walked will be considered in scope for this project.

In the absence of explicit specifications contained within this RFP, Proposers must adhere to industry best practice and follow all applicable local, state and federal regulations, including bonding and grounding guidelines and requirements.

SECTION A – WIRELESS INFRASTRUCTURE CABLE REPLACEMENT

1. General Requirements

- 1.1. Installation of Cat6A Ethernet cabling to designated classrooms, offices, and communal areas.
- 1.2. Installation of all physical cable management hardware including but not limited to “J-hooks” in accessible ceiling areas, cable trays, conduits, ladder-type cable racks within telecommunication rooms, and “D-rings” on backboards and equipment racks/cabinets/frames.
- 1.3. Termination and testing of all installed cables to ensure compliance with industry standards.
- 1.4. Termination, cross connect and patching of all cable pairs as indicated herein or on schedules or on drawings.
- 1.5. All patch panels will be category 6A
- 1.6. Installation shall use two (2) Cat6A cables along with biscuit jacks in every designated room on the map provided.
- 1.7. Color of the CAT6A cables for wireless should be purple.
- 1.8. Unless otherwise noted all Cat6A cables should be run to the MDF and IDF of the school buildings.
- 1.9. All copper Ethernet cabling and termination points will be rated CAT6A is required, the cabling and termination points will be rated Category 6A according to ANSI/TIA/EIA-568-B.21 and ANSI/TIA/EIA-568-B.2-ad10.
- 1.10. All cables must be terminated at the MDF or closest IDF and where plenum space is used, plenum wire shall be used.
- 1.11. All patch cords will be purple category 6A 28AWG UTP unshielded slim ethernet and constructed with snagless boots to T568B plug wiring format and will be 100% factory manufactured.
- 1.12. Fabrication of patch cords in the field is prohibited.
- 1.13. Jacks will be terminated according to the T568 wiring scheme and follow industry standard 110 IDC. 10
- 1.14. If drops penetrate a fire rated wall, then the wall must be restored to rating.
- 1.15. When laying out cable pathways entering the MDF or within the MDF, ensure that the layout:
 - a) Avoids cable congestion.
 - b) Allows access to the cables.
 - c) Provides cable slack.
 - d) Provides a minimum of 10’ service loop for cable at MDF.
 - e) Provides a minimum of 3’ service loop for cable at station.
- 1.16. Minimizes cable stress such as tension, twisting, and bending, bend ratios, maximum number of bends.

2. **Distribution Equipment:**
 - 2.1. Deployment of patch panels and other necessary hardware will be Category 6A.
 - 2.2. Upon installation of the network cable the installer will replace the 1-foot cable with a new 1-foot Cat6A purple cable to the wireless access point.
 - 2.3. Upon installation of the network cable the installer will provide Cat6A purple cable for patch panels to switch connection.
3. **Labeling and Documentation:**
 - 3.1. Proper labeling of all cables and drops for ease of identification. A standard labeling scheme document will be provided to the awarded vendor prior to project commencement.
 - 3.2. All cabling will be labeled at both the patch panel and terminated ends.
 - 3.3. Documentation of cable runs, termination points, and network topology.
 - 3.4. Vendors must certify that their equipment is not manufactured by, nor contains any components from, the list of vendors on "The Secure Networks Act".
 - 3.5. All labeling will conform to a uniform standard throughout all buildings.
4. **Testing and Certification:**
 - 4.1. Conducting comprehensive testing of all installed cables using industry-standard testing i) equipment
 - 4.2. Supplying certification documentation for all installed cables.
 - 4.3. All cabling will be properly tested for continuity, return loss (RL) and near-end cross talk (NEXT), and a copy of the test results should be provided.
 - 4.4. A Notice to Inspect (NTI) must be sent by the Contractor when all equipment is installed, configured, tested and final documentation delivered to the district. No invoice shall be paid until a district technology inspector signs off on the project via a favorable Technology Inspection Report (TIR).
 - 4.5. The contractor shall perform, at its own cost and expense and without reimbursement from the District, any work necessary to correct errors or omissions which are identified by the District and communicated in writing.
 - 4.6. All equipment and supplies required for work shall be stored off site by Contractor and delivered just in time for installation (within 15 days of install). No claim for allowances of time, storage or money will be accepted.

EXPECTATIONS:

- Project timeline is from April 1st, 2027, to July 31st, 2027
- Cable crews need to be onsite and dedicated to the project from start to finish
- Lift Rental should be included in the bid for all locations in scope
- Ram board and ¾ inch plywood should be included in the bid to protect hardwood gym floors for lift usage. The District will provide instructions on where and how it should be used.
- Vendor should assign a dedicated Project Manager to the project with regularly scheduled weekly status meetings