

Brenham ISD Classroom Network Cabling Upgrades

Campus Locations

Brenham Junior High
Brenham Early Childhood Learning Center
Pride Academy

SOW and Descriptions

Copper Network Cabling

- 2.1 All cabling to be minimum of Cat 6
- 2.2 Provide a 20ft service loop above ceiling in room location.
- 2.3 Terminate with a "biscuit" box above ceiling of room location
- 2.4 Terminate into a keystone style patch panel in MDF/IDF
- 2.5 All network cabling to be labeled on both ends with corresponding numbers for identification.
- 2.6 All cables to be blue in color
- 2.7 Cable and cable bundles will not be attached to any electrical wiring or light fixtures, nor will its deflection allow it to come in contact with ceiling grids, HVAC mechanical controls, fluorescent light fixtures, or drainage line piping. The use of "J" hooks is the preferred means to avoid any of the above examples. "J" hooks should be fastened as high as possible so as not to interfere with any other building wiring or system.
- 2.8 Use of loop-and-hook (Velcro) type fasteners is the preferred method to bundle together cables that are visible or below a false ceiling. If plastic tie wraps are needed to attach cable bundles to anchors, then tie wraps should be left loose fitting. Also, tie wraps should not be used on cable bundles exceeding 48 cables.
- 2.9 Category 6 Plenum cables will be installed for all interior environments.
- 2.10 The Contractor will provide a complete and final location on blank floor plan provided by Brenham ISD. Ceiling drop locations will be marked with small adhesive (sticker) marker on ceiling grid.
- 2.11 The Contractor will test each run for viability to insure each run meets industry network standards. Certification report is optional.

Fiber Optic Network Cabling

- 3.1 All fiber optic cable to be indoor/outdoor plenum rated cable.
- 3.2 Contractor to provide fiber enclosure with cassette style termination in closets.
- 3.3 Contractor will pull cable through conduits where available, hang in ceiling where needed and place on awnings when necessary. Attending district scheduled walkthrough is highly recommended to determine paths and scope.

3.4 The Contractor will test each fiber strand for viability to insure each run meets industry network standards. Certification report is optional.

Quantities

1. 173 - Cat 6 network drops at three school campuses
2. Materials and labor for installation into Brenham Junior High School, Pride Academy and Brenham Early Childhood Learning Center
3. Approximately 1200' ft or indoor/outdoor 6 pair single mode cable. Four fiber rack enclosures to accommodate 6 pair SM cassette style terminations with LC connectors and one enclosure to accommodate 12 pairs.(6 in 6 out)

Walk-Through Meeting

Vendors wishing to bid on internal connections can attend a voluntary site visit on December 19th, 2022, at 9am. Vendors will meet at 1200 Carlee Drive, Brenham, TX 77833. After the Junior High vendors will proceed to the Pride Academy (1301 Market Street, Brenham, TX 77833) campus to view/walk it, and on to Brenham Early Childhood Learning Center (304 Kerr Street Brenham, TX 77833) to finish the walkthroughs. Vendors will check in with Rodney Leer. This will be the districts only site visit. This site visit will be used to show all vendors the existing cabling and cabling closets. The time will be used to escort all attendees around the facilities and critical areas. This will also give vendors time to ask questions about the sites and determine what materials will be required for the project.

Purchase contingent upon:

- Equipment and installation services will only be purchased if eRate funding is approved by USAC.
- Discounted Billing: Service providers must be willing to file FCC Form 474 (Service Provider Invoice) for discounted portions of equipment and installation. Brenham ISD will only be invoiced for the remaining portion.