

Caliber Public Schools 2027-28 Network HW & Cabling Project

This document summarizes the network infrastructure that Caliber Public Schools (“Caliber”) is requesting proposals for under the Category 2 program in the 2027-28 E-rate year.

Background:

Caliber operates two schools: Caliber: Beta Academy in Richmond, CA (Beta Academy) and Caliber: ChangeMakers Academy in Vallejo, CA (ChangeMakers).

During the 2027-28 E-rate year Caliber will be undergoing the construction of additional classrooms at the location for ChangeMakers Academy. The project is located at 500 Oregon St, Vallejo, CA 94590. Caliber needs network cabling infrastructure and networking gear (switches, access points, UPS units) at the ChangeMakers Academy site

Requested Equipment and Services:

The cabling and network hardware requirements for the new classroom facilities at Caliber ChangeMakers Academy are outlined below, divided into two separate scopes:

Cabling Scope:

The following table outlines the cabling components, IDF requirements, and run lengths needed across each building.

Cabling Component	Specifications & Requirements
IDF (Building 1) (New Building) (P1)	Located in Classroom 1 This IDF will serve for connection in building 1 We are requesting a wall-mounted rack (36" H x 24" W x 30" D), with sufficient capacity for 24 switch and associated UPS, and 24 port patch panel
IDF (Building 2) (New Building) (P2)	Located in Classroom 8 This IDF will serve for connection in building 2 and 3 We are requesting a wall-mounted rack (36" H x 24" W x 30" D), with sufficient capacity for 48 switch and associated UPS, and 48 port patch panel
IDF (Building 4) (New Building) (P3)	Located in Classroom 4 This IDF will serve for connection in building 4 We are requesting a wall-mounted rack (36" H x 24" W x 30" D),

	with sufficient capacity for 24 switch and associated UPS, and 24 port patch panel
MDF Main Building (Existing Building)	We are requesting fiber patch panel at the MDF for Connectivity to IDFs
MDF Connectivity	We are requesting single mode fiber optic connectivity between our MDF and each IDF. Estimated 2,200 ft in length (2 fiber runs between the MDF and each IDF at an average length of ~350 feet each run)
Cabling for Access Point	We are requesting Cat 6A ethernet connectivity between our IDFs and each of the access points in each building. We are requesting to install two cables to each access point location. Approximate locations are identified on the map that accompanies this project description. Estimated 2,400 ft in length (16 cables at an average length of ~150 feet) • Building 1 : 2 access points, 4 cables • Building 2 & 3 : 4 access points, 8 cables • Building 4 : 2 access points, 4 cables
Cabling for Wall Drops	We are requesting Cat 6A ethernet connectivity between our IDFs and each of the wall drops throughout each building. We are requesting to install one cable to each wall drop location. Approximate locations are identified on the map that accompanies this project description. Estimated 12,450 ft in length (67 cables at an average length of ~150 feet) • Building 1 : 17 drops, 17 cables • Building 2 & 3 : 32 drops, 32 cables • Building 4 : 18 drops, 18 cables
Patch Cables	We are requesting a sufficient number of patch cables in each MDF/IDF to connect each cable to one of our switches. Estimated 260 ft in length (83 connections at an average length of ~3 feet) • Building 1 : 21 connections • Building 2 & 3 : 40 connections • Building 4 : 22 connections

Network Hardware Scope:

The following table outlines the network hardware, licenses, and other accessories

The network infrastructure currently deployed relies on Cisco Meraki technology. All proposed networking hardware and accompanying software/cloud management licenses must fully integrate with our existing setup (Cisco Meraki or a functionally equivalent brand). The installed environment presently utilizes Cisco CW9166I Indoor Access Points, Meraki network switches, and APC uninterruptible power supply (UPS) units.

Hardware Component	Specifications & Requirements
Network Switches	We are requesting Managed PoE Switches with mGig ports for IDFs to support wall drops, access points, and network connectivity. Switches should be fully compatible with Meraki ● Building 1: 24 Port POE switch Cisco Catalyst C9200L-24PXG-4X-M or equivalent ● Building 2: 48 Port POE switch Cisco Catalyst C9200L-48PXG-2Y-M or equivalent ● Building 4: 24 Port POE switch Cisco Catalyst C9200L-24PXG-4X-M or equivalent
Wireless Access Points	We are requesting Cisco CW9166I or equivalent for classroom coverage across buildings: ● Building 1: 2 Access Points ● Building 2 & 3: 4 Access Points ● Building 4: 2 Access Points
Software & Management Licenses	We are requesting required enterprise/cloud management licenses for all requested switches and wireless access points (or equivalent required licensing for alternative)
UPS Units (Uninterruptible Power Supply)	We are requesting rack-mounted UPS backup power units for each IDF to ensure continuous power and runtime for switch hardware. ● Building 1: 1 UPS ● Building 2: 1 UPS ● Building 4: 1 UPS
Fiber Optics Transceivers / Uplinks	We are requesting SFP+ 10G Single-Mode Fiber Transceivers for linking each IDF back to the MDF and should be compatible with Meraki ● MDF: 3 ● IDF 1: 1 ● IDF 2: 1 ● IDF 4: 1

Other project details / proposal requirements:

- 1. Project phases** - We are currently approaching this project in three phases:
 - a. **Conduit** : The general contractor and electrical subcontractor on the overall construction project will provide conduit for network cabling. This is outside the scope of this project.
 - b. **Network infrastructure** : The selected E-rate cabling provider will work with the general contractor and electrical subcontractor on final locations of network connection points (wall and ceiling drops), and will come in after conduit is installed install racks and patch panels, pull and terminate cables in patch panels at each MDF and IDF, and confirm connectivity in advance of network gear installation.
 - c. **Networking equipment** : The selected E-rate networking equipment vendor will work with Caliber IT to ensure hardware is properly installed, configured, and tested after network cabling is completed.
 - d. **Timing** - We anticipate network cabling will be completed in the spring of 2027. Advance planning (e.g., designating specific locations for network connections) will occur prior to that. Specific timing will be determined in conjunction with the general contractor on the construction project after the project is awarded. Proposals should include details on any timing restrictions that the respondent has. Proposals should also include the amount of time the respondent anticipates needing to complete their phase of the work once conduit is completed and any lead time requirements associated with their phase.
- 2. Prevailing wage** - This project is being treated as a prevailing wage project and respondents are requested to acknowledge their intent to comply with prevailing wage laws in their response.
- 3. Multi-award RFP** - This is a multi-award RFP. Caliber reserves the right to award the cabling scope and the network hardware scope to two different vendors or to a single vendor for both scopes.
- 4. Itemized proposals** - Proposals should be itemized. Vendors wishing to participate in both the cabling and network hardware scopes should outline items for each scope separately.
- 5. References** - Vendors should provide references from customers within the education sector.