

# REQUEST FOR PROPOSAL

E-RATE Funding Year 2020-2021  
NETWORK UPGRADE PROJECT

Union Public School District  
Technology Department  
417 South Decatur Street  
Union, MS 39365

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December 9, 2020

**STATEMENT OF QUALIFICATIONS  
And  
REQUEST FOR PROPOSAL  
RFP # 2020-1**

**Subject**

RFP - The Union Public School District will accept sealed statements of qualifications (SOQ) and proposals from qualified firms/vendors to provide services necessary for installation and configuration of network equipment for the FY2020-21 (E-RATE) cycle. Bidders must have a Service Provider Identification Number (SPIN) and this SPIN must be included on the bid proposal. Those interested shall submit a signed, sealed SOQ and cost proposal to the district on or before 10:00 AM local time, January 22, 2020 at the Union Public School District Central Office, located in the Union Public School District Office 417 South Decatur Street Union, MS 39365.

**Purpose**

Proposals are being sought by the Union Public School District for the purpose of securing the most cost efficient way of upgrading the school district's instructional areas (*classrooms/labs/etc.*) with wireless capacity and network backbone bandwidth.

**General Requirements**

The District will be looking for Cisco or equivalent network switches and Ruckus or equivalent wireless equipment for this project. Vendors who are responding to this RFP with Cisco or equivalent network equipment must state their certifications and must have a minimum of one Cisco Certified CCNA or equivalent and one Ruckus wireless engineer CWNA or equivalent on staff and employed full time by the proposing vendor. Proposed solutions must integrate with the existing network environment to ensure a seamless management and design. Wireless management software must be able to successfully manage all access points from one centralized "on-premise" management package/solution. The District does not want a "cloud-based" controlled system. It will be the responsibility of the bidder to contact the District for any changes to the RFP or listing of bidder questions and answers that may arise.

**Terms used throughout this RFP**

UPSD – Union Public School District  
USAC – Universal Service Administrative Company  
SPIN – Service Provider Identification Number  
FCDL – Funding Commitment Decision Letter  
FCC – Federal Communication Commission  
SLD – School and Library District  
USF -- Universal Service Fund

**All proposals and supporting documentation must be sent to:***(Submittal should be clearly labeled on the outside of the submittal)*

Union Public School District  
 FY2020-21 Network Upgrade Project  
 RFP # 2020-1

Submittal should be addressed to:

Union Public School District  
 Larry Gressett, Technology Director  
 Union Public School District Office  
 417 South Decatur Street  
 Union, MS 39365

One original and two copies of proposals and statements of qualifications and “hot maps” of wireless locations in each school building (to include access point model and location of all proposed wireless equipment) are to be prepared and delivered either by mail or Federal Express to Union Public School District 417 South Decatur Street, Union, MS 39365 on or before 10:00 AM local time, January 22, 2020, where they will be time and date stamped. In addition, the bid must be broken down per school building and totals per school campus must be shown, as well as a grand total for the entire district project. All of the above bid documents must also be provided in electronic format on one CD, or jump drive. Please do not fax proposals.

**Selection Schedule**

Event	Date(s)	Time
Release of RFP to vendors	12-9-2019	
<u>Mandatory</u> Vendor Site Visit	01-9-2020	9:00AM
Deadline for Submission of Proposals	01-22-2020	10:00 AM
Opening of Proposals (MCSD District Office)	01-22-2020	11:00 AM

*Proposers are prohibited from contacting or lobbying members of the school board, school district administrators, school district employees, school district contractors, or school district consultants. Failure to conform to this condition will be grounds for disqualification of the proposer. Questions regarding the RFP may be emailed to [gressettl@unionyellowjackets.org](mailto:gressettl@unionyellowjackets.org) before Friday, January 17, 2020. A response within 3 business days will be emailed to all vendors attending walkthrough.*

**Basis of Award**

1. E-rate approval by USAC
2. Bidder must have SLD SPIN
3. References of at least two installations of similar application size and complexity.
4. Please see “Vendor Requirements” on following pages for additional information.
5. Please also see “Criteria for Selection” on more detail on page seven.

**VENDOR REQUIREMENTS**

Vendors who respond to this Request for Proposal (RFP) must be willing to provide the Network Upgrade Project (RFP # 2020-1) to Union Public School District (The District). The District will be looking for Cisco or equivalent network switches and Ruckus or equivalent wireless equipment for this project. Vendors who are responding to this RFP with Cisco or equivalent network equipment must state their certifications and must have a minimum of one Cisco Certified CCNA or equivalent and one Ruckus wireless engineer CWNA or equivalent on staff and employed full time by the proposing vendor.

**NONAPPROPRIATION OF FUNDS**

In the event funds are not appropriated by the Union Public School District governing body in any fiscal period for payments due under RFP # 2020-1, then the Technology Director, or Superintendent's designee(s), will immediately notify the successful vendor(s), or designee(s), of such occurrence and this contract will terminate on the last day of the fiscal period for which appropriations were received without penalty or expense to the School District of any kind whatsoever, except other payments herein agreed upon for which funds will have been appropriated and budgeted or are otherwise available.

**AWARD OF SOME OR THE ENTIRE PROJECT MAY BE SUBJECT TO AVAILABILITY OF DISTRICT FUNDING AND PROJECT NEEDS.**

Proposer's response to the Request must include a statement that the proposed terms will remain in effect and available for the project term identified as July 1, 2020 through June 30, 2021.

The work itself will consist of all aspects of technology implementation for which District desires to contract with the selected Proposer(s). The school district's vision for this technology projects calls for the installation and configuration of new technology equipment, software and services to improve the district's network wireless and switch (backbone) infrastructure. Proposed solutions must integrate with the existing network environment to ensure a seamless management and design. Final completion for the project is scheduled for June 30, 2021. Union Public School District reserves the right to waive any informality and to reject any or all proposals.

Proposers are prohibited from contacting or lobbying members of the School Board, school district administrators, school district employees, school district contractors, or school district consultants. Failure to conform to this condition will be grounds for disqualification of the proposer. Questions regarding the RFP may be emailed to [gressettl@unionyellowjackets.org](mailto:gressettl@unionyellowjackets.org), and will be responded to within 3 business days on the District's RFP web site.

Proposals and statements of qualifications are to include the information requested in the following questionnaire precisely in the sequence and format prescribed. In addition to and separate from the requested information, organizations submitting may provide supplementary materials further describing their capabilities and experience.

One original and two copies of proposals and statements of qualifications along with “hot maps” of wireless locations in each school building to include access point/array model and location of all proposed wireless equipment are to be prepared and delivered either by mail or Federal Express to Union Public School District 417 South Decatur Street, Union, MS 39365 on or before 10:00 AM local time, January 22, 2020, where they will be time and date stamped. In addition, all of these documents must also be provided in electronic format on one CD (see page 3).

A **MANDATORY** vendor walk-through will be held on January 9, 2020 from 10:00 AM – 3:00 PM, beginning at the Union Public School District Central Office and proceeding to the respective school campuses. Any questions received will be discussed at that time and responses will be posted on the RFP web site for everyone to review after the walk-throughs have been completed. Written questions will be allowed for any vendor interested in responding to District’s RFP and responses will be provided. The district will accept only ONE bid per vendor.

This Network Upgrade Project will be awarded to a SINGLE vendor that can quote, install and configure all network equipment and network cabling requested/required. The School District requires a “turn-key” solution for this project. Requested paper copies and one CD of the proposal and other required documentation (*see page 3*) must be sent in a sealed envelope clearly marked with the words **“FY2020-21 Network Upgrade Project RFP # 2020-1”**

The Network Upgrade Project will include preferred equipment preference information and will be provided to each vendor who attends the mandatory walk-through this information will include a listing of equipment specifications and school campus maps with explanations. The equipment specification list provided is a minimum guideline list. If the bidder wishes to add to the District’s equipment list to improve the functionality of their proposed equipment, the bidder is encouraged to do so. The bidder/vendor must also provide “hot maps” of wireless locations in each school building to include access point/array model and location of all proposed wireless equipment. E-rate funding is available for some (but not all) of our individual school campuses. Therefore attendance to this mandatory walk-through is of utmost importance to allow the prospective bidder to receive a detailed equipment list and be able to visit each school campus.

**STATEMENT OF QUALIFICATIONS FORMAT**

Please provide the following information in in the same format prescribed by this questionnaire. Supplemental materials providing additional information may be attached, but the information requested below is to be provided in this format and sequence. Please provide succinct responses to the following questions and limit those responses to the page allowances set out in each item.

**1. FIRM INFORMATION: (LIMIT 1/2 PAGE)**

Name of Firm:

Address of Home Office and Address of Branch Office if Applicable:

Telephone Number(s):

Fax Number(s):

Form of Business Organization (Corporation, Partnership, Individual, Joint Venture, Other):

Year Founded:

Primary individual to contact:

**2. ORGANIZATION: (LIMIT 1/2 PAGE)**

2.1 How many years has your organization been in business in its current capacity?

2.2 How many years has your organization been in business under its present name? Under what other or former names has your organization operated?

2.3 If your organization is a corporation, answer the following: Date of incorporation, State of incorporation, President's name, Vice-President's name(s), Secretary's name, and Treasurer's name.

2.4 If your organization is a partnership, answer the following: Date of organization, type of partnership, if applicable, names of general partner(s).

2.5 If your organization is individually owned, answer the following: Date of organization, name of owner.

2.6 If the form of your organization is other than those listed above, describe it and name the principals.

**3. LICENSING: (LIMIT 1/2 PAGE)**

3.1 List jurisdictions in which your organization is legally qualified to do business and indicate registration or license numbers, if applicable.

3.2 List jurisdictions in which your organization's partnership or trade name is filed.

**4. EXPERIENCE: (LIMIT 2 PAGES)**

4.1 Describe your firm's experience with completing this scope of work for public entities, if any.

4.2 Provide a list of the public entities previously assisted with contact names and phone numbers.

**5. FEES:**

5.1 Based on the scope of work outlined herein please describe your firm's full price associated with the completion of this work for the Network Upgrade Project (RFP # 2020-1).

**6. COORDINATION OF INSTALLATION**

6.1 The Contractor shall be responsible for securing all permits and approvals necessary to complete the work (if required).

**Additional Warranty Instructions**

The successful proposer must warrant its material and workmanship for a period of one year (for items requiring purchase and installation). Their respective manufacturer warrants all other products and material under separate warranty. Warranty for “outright purchase” of equipment and software should include at least one year (*with optional five-year warranty to be listed separately from bid total, for purchase of equipment and software should be included for second through fifth years*). No re-furbished or “gray market” equipment will be accepted. All equipment must be new and “out-of-box” with full warranty and support.

**CRITERIA FOR SELECTION**

The District will utilize the following criteria (*as the basis for the proposal evaluations & selection*).

<u>Factor</u>	<u>Weight</u>
Price of the ELIGIBLE Equipment, Services & Warranties	25%
Prior Experience with the District	15%
Personnel Qualifications, Professionalism & Scope of Work	10%
Management Integration w/ Current Network	15%
Company Provides all Services (No sub-contractors)	20%
Preference to Mississippi Based Companies	15%
Total	100%

The District reserves the right to select outright a single Proposer, and to waive the finalists’ state of the evaluation process in the event a Proposer has total points scored significantly higher than all the other Proposers responding to this RFP.

The District in its sole discretion may accept or reject any or all responses to this RFP and may waive all formalities, technicalities and irregularities. All bidders are placed on notice that award of the RFP will be based upon the products and services best suited to the District. The sole judgment of the District on such matters shall be final.

The District has identified the factors itemized above under scoring criteria as critical to a company’s ability to effectively assist the District’s integration of technology. To be considered for evaluation, bidders must provide relevant responses to all sections of this RFP. (*100 evaluation points are possible*). A separate response is requested for each criteria section. Appropriate labeling required. (*See details of each factor below and on the following pages*).

**A. Pricing (All Eligible Equipment, Cabling, Installation and Warranty)**

- Proposer must abide by the district’s bid policy.
- Proposer must abide by the state of Mississippi bid laws.

- Proposer must provide specific price quotes for eligible services. The District reserves the right to select a combination of pricing, services and/or Proposer(s) that appears best suited to meet the needs of the District. Proposer must allocate to the extent that a clear delineation can be made between eligible and ineligible components. Proposer(s) must provide school campus bid totals, as well as total cost for the entire project.

**B. Prior Experience with the School District**

The District has also determined that a company's background, experience, and financial stability are essential for the success of a long-term relationship with its selected Proposer(s). Proposers responding to this RFP should include information about their company's experience, financial stability, and quality of services and products and satisfaction of their clients. A minimum of three (3) references (school districts preferred) should be included in bid document.

**C. Personnel Qualifications, Professionalism & Scope of Work**

The District is seeking (an) E-rate Proposer(s) that has the depth, breadth, and quality of resources necessary to complete all phases of a broad technology and service project. In addition, the timely availability of these resources and related support elements will be critical to project success. Describe the various resources from your company that will be made available to assist the District in the execution of its mission in performance of each scope of work (SOW). Provide resumes and related experience summaries to demonstrate the competencies and experience of typical personnel who would be assigned to the District program. Provide a list of industry standard certified employees and their certifications. Proposers must provide SOW and contract information for each school campus project being proposed

**D. Management Integration**

The District requires a network that will continue to provide the District with a modern, efficient and reliable network to support bandwidth and data and provide all needed capabilities within the district school buildings. Reliability and high performance are key requirements of this networking plan, as the District network continues to support the technology needs of the future. Vendor's proposal provides interoperability with current District environment. Seamless integration with the current network. Wireless management software must be able to successfully manage all access points from one "on-premise" management controller/solution.

**E. Company provides all services (no sub-contractors)**

The District is interested in providers that provide all components, installations and configurations for this RFP without sub-contractors.

**F. Mississippi Based Companies (K-12 Experience)**

The District is interested in providers that understand the technology, administrative, and instructional challenges facing today's educators, children and administrators. The education environment is vastly changing with challenges that make technology decisions more important as they reach the District constituencies. The respondent must show that their solutions are sustainable within the framework of the District's resources to implement and maintain ongoing operations and that future support is local and Mississippi based.



## ADDITIONAL TERMS AND CONDITIONS

### A. CONTRACT TERM

The term of the contract term will begin when school board approves and a written contract is signed by both the District and the vendor/bidder selected. The term of the contract award will begin July 1, 2020. Initiation of the contract is dependent on E-Rate funding, in the event E-Rate does not fund the project then the contract will be null and void. In addition, a Funding Commitment Decision Letter (FCDL) does not guarantee the District will proceed with this project and may only be able to proceed with portions of the project on a per school campus basis..

### B. CONTRACT/PURCHASE ORDER TERMINATION

The District shall reserve the right to terminate any contract/purchase order entered into as a result of the REQUEST FOR PROPOSAL at any time by giving thirty (30) days written notice of its intent to cancel. In the event the Proposer fails to carry out and comply with any of the conditions and agreements to be performed under the specifications, the District will notify the Proposer, in writing, of such failure or default. In the event the necessary corrective action has not been completed within a 10-day period, the Proposer must submit, in writing, why such corrective action has not been performed. The District reserves the right to determine whether or not such non-compliance may be construed as a failure of performance of the contract/purchase order.

### C. LICENSING REQUIREMENTS

The successful Proposer must keep himself informed of, and adhere to, all laws and ordinances governing any matter related to work performed under the resulting contract/purchase order. The successful Proposer will obtain all necessary licenses and permits, and will be aware of all labor conditions and agreements relating to the work specified in this document and shall make all provisions necessary to avoid any disputes which might arise from those conditions and agreements and shall be responsible for any delays, damages or extra costs caused by disputes.

### D. SAFETY REQUIREMENTS

It shall be the Proposer's responsibility to provide for the safety of workers and public in compliance with the requirements of insurance and public health and safety. The District requires all workers on-site to have a company badge. A list of workers with current photograph must be provided to the school district's Technology Department throughout the life cycle of the project(s) that require installation or services

### E. INDEMNIFICATION

The Proposer shall be responsible for all damage persons or property that occurs as a result of his fault or negligence, or that of any of his employees, agents, or subcontractors. Proposer shall save and hold harmless the District and its School Board against any and all loss, cost, damage, claims, expense or liability in connection with the performance of the contract/purchase order. Any equipment or facilities damaged by the Proposer's operation shall be repaired and /or restored to their original condition, including cleaning and painting, at the Proposer's expense. The successful Proposer will assume the liability for all losses, damages (including loss of use), expenses, demands and claims in connection with or arising out of any injury or alleged injury to

persons (including death), or damages or alleged damage to property, sustained or alleged to have been sustained in connection with or to have arisen out of the performance of the work by the Proposer, and his agents, and employees, including losses, expenses, or damages sustained by the District. The successful Proposer will undertake and agree to indemnify and hold harmless the District and its board, individually or collectively, and the officers, agents, and employees of the District and its Board, from any and all such losses, expenses, damages (including loss of use), and to pay all damages, judgments, costs and expenses, including attorney's fees in connection with said demands and claims resulting thereof. Any claims against the District must be filed with the State of Mississippi in the county of the District.

The Proposer shall abide by the Federal Occupational Safety and Health Administration (OSHA) regulations that apply to work performed under this Request. The Proposer shall defend, indemnify, and hold the District free and harmless against any and all claims, loss, liability and expense resulting from any alleged violation(s) of said regulation (s) including but not limited to, fines or penalties, judgments, court costs, and attorney's fees.

#### F. ATTORNEYS STATEMENT

In the event that the District employs attorneys or incurs other expenses that it may deem necessary to protect or endorse its rights under this contract/purchase order, the Proposer agrees to pay the attorney's fees and expenses incurred by the District. If either party defaults in the performance of this agreement, the defaulting party shall pay the non-defaulting party responsible attorney's fees and court costs.

#### G. NEGOTIATIONS

The District reserves the right to have any additional terms and conditions incorporated into the agreement provided an authorized modification to the contract/purchase order is mutually agreed upon and duly executed by both parties.

#### H. ORDER OF PRECEDENCE

In the event of an inconsistency between the terms and conditions of the resulting contract/purchase order, the inconsistency shall be resolved by giving precedence in the following order: (1) The REQUEST FOR PROPOSAL, including the Scope of Work and Statement of Qualifications, and (2) Proposer Response.

#### I. PROJECT START DATE

The District reserves the right to start the project on or after July 1, 2020, even if the project has not yet received funding. All pricing proposed will be considered valid.

**EXHIBIT E-1 (PROPOSER'S CONTRACT DOCUMENTS)**

Proposer shall provide a contract for services to be offered. Proposer shall also provide a Service Level Agreement (SLA) to include resolution procedures, escalation process, and Proposer's response structure (tiered or other).

**EXHIBIT E-2 (REFERENCES)**

Reference List		
1	Company	Contact Name
	Phone Number	Fax Number
	E-Mail Address	Physical Address
	Scope of Work	
2	Company	Contact Name
	Phone Number	Fax Number
	E-Mail Address	Physical Address
	Scope of Work	
3	Company	Contact Name
	Phone Number	Fax Number
	E-Mail Address	Physical Address
	Scope of Work	

## **SPECIFIC EQUIPMENT REQUIREMENTS & DETAILS**

**Please Note: School building drawings/maps showing network MDF and IDFs and additional details will be provided at the mandatory walkthrough along with additional equipment specification details.**

The following section provides more specific technical requirements/specifications for **RFP # 2020-1**. The Union Public School District has standardized our network equipment for ease of management and future growth on our district network. This is the reason specific network equipment (or equivalent) is being requested on this RFP. The District will standardize on Cisco or equivalent network switches and Ruckus or equivalent wireless equipment. The District does not want a “cloud-based” controlled system, the District however has an “on premise” controlled system. The on premise wireless management software must be able to successfully manage all access points from one management package/solution. For installation of equipment for this project, all school sites will be open from 8:00AM to 4:00PM.

### **The awarded vendor will:**

- (1) Install new wireless system equipment, network switches and all other requested network equipment to support the wireless infrastructure and network backbone upgrade.
- (2) Install all needed cabling (fiber and/or copper) connections, patch cables and patch panels, to access points from indicated wiring closets on school building maps.
- (3) Test all wireless equipment across the district sites after installation.
- (4) Provide “hot maps” of wireless locations in each school building to include access point/array model and location.
- (5) Submit a bid that includes total price of entire project AND must include breakdown list of all equipment and cost of each in line item (*with total cost*) PER school site.
- (6) Provide a solution that accommodates the 802.11ac wireless standard.
- (7) Provide a solution for the network switches to include fiber modules and other components necessary. (*See details below*)
- (8) Provide a solution for all switches to be linked by fiber.

### **District Initiatives: BYOD and/or 1:1**

The District is developing a 1:1/BYOD policy for a “one-to-one” device initiative. The wireless vendor must provide a wireless solution that provides coverage to all classrooms, labs and other instructional areas in all school building in the district. The initiative calls for a minimum of twenty-five (25) student wireless connections per classroom. The district initiative will not accept wireless bids stating that their solution can support up to 100 of devices per radio/AP. Furthermore, the district initiative requires that the selected wireless solution will accommodate the 2.4GHz, 5GHz and 802.11ac wireless standard.

**Additional Network Switch Specifications**

The backbone of our network is our MDF and IDF core switching for both wired and wireless connections. The main MDF closet shall have at a minimum of one core switch as designated by switching equipment list and a mandatory onsite walk through must be attended for additional questions. The main MDF routing core switch must have full layer three protocols including IPv4 and IPv6 dynamic routes OSPF v2, OSPF v3 (IPv6) PIM-SM, PIM-SSM, PIM-DM, PIM passive (IPv4/IPv6 multicast routing functionality) PBR Virtual Route Redundancy Protocol VRRP v3 (IPv6) VRRP-E (IPv4, IPv6) BGP4, BGP4+ (IPv6) GRE IPv6 over IPv4 tunnels VRF (IPv4 and IPv6) MSDP. All remaining switching being replaced in the main MDF closet must be connected together using manufactured provided stacking cables. The stacking cable shall be at a minimum ten gigabit connection between each switch and an additional stacking cable to complete the ring stack. The main layer three core switch shall be connected to any additional stacks by 10 gig SX fiber modules using fiber patch cables.

Network switches shall be Cisco 9300(MDF), 9200(IDF), 9500(Fiber) switches or equivalent minimum. All 24 and 48 switches will have at a minimum 370Watts POE POE+ power for 24 port and 740watts POE POE+ power for 48 port. All Cisco or equivalent switches will have the capability of removal modules unless otherwise stated by district at equipment walkthrough. All Cisco or equivalent switches of the same model shall use stacking modules and cables to complete a stack. Third party fiber modules may be substituted only if they are certified to work in Cisco or equivalent switches to connect different switch models. A equipment list will be provided at the mandatory walk through.

The addition of new equipment requires maintenance upgrades of existing uninterrupted power supplies. The districts MDF UPS's will need to be replaced with Cyber Power PR1500LCDRTXL2UN or equivalent. A three-year warranty on the unit and two years on batteries on the unit is minimum. IDF closets shall require a minimum Cyber Power PR1500LCDRTXL2UN or equivalent. A three-year warranty on the unit and a two-year warranty on batteries.

The district has several areas of need for rewiring, patch panels and enclosed cabinets to meet the needs of safety and security in both the MDF and IDF closets. Tripp Lite Wall or Rack Mount Enclosures with Cooling Roof Fan Kit or equivalent will be used to replace aging and existing cabinets. Cat 5E or Cat 6E patch panels shall be used in accordance with wiring of each closet. A detailed equipment list will be provided to each vendor at the time of the mandatory walk through. All vendors are encouraged to take additional notes during this time. If a manufacture discontinues an enclosure, the vendor shall consult with the district before making a substitution once the bid has been awarded and funding is made available.

**Additional Wireless Solution Specifications**

The district wishes to replace all existing wireless AP's with Ruckus 600 and 700 series or equivalent. The vendors must provide maps and coverage area for all buildings. Each AP must be able to provide coverage per classroom for up to twenty-five devices. Each vendor will provide data to support access point coverage. Gyms and cafeterias, shall provide cover for 100 devices. Each location may be called on for state testing in the future. All access points shall be connected and managed by an onsite controller. The controller has to be a virtual or a hardware

appliance. The vendor will provide a five-year software update warranty on controller and access points. Each access point will be labeled with room number, building, school and a brief description. POE or POE + will be provided by switches or power injector. Additional information will be given at walk through. District will provide the number of access points to be replaced. During mandatory walkthrough, vendors will be allowed to look at all current APs in all rooms.

**REMINDER: Warranty of the wireless solution**

For the wireless solution that is bid, the District requires the bidder to provide one and five-year warranty options on the bid/quote, to include all hardware and software upgrades and technical assistance to the District support staff as a part of the bid price. Vendor will provide explanation of manufacturer's warranty on the one-year quote.

**Throughout the project if required by the District**

- Vendors will be required to conduct a site visit to each area listed.
- Remove and replace all enclosures designated by the technology department.
- Mount and ensure operational roof mounted fans in each enclosure. Power outlets will be provided by the Technology department.
- Remove and replace all patch panels and wiring as needed to fit new enclosures.
- Remove all old network switches and re-install new switches in new enclosures as directed by Technology department
- Remove and replace patch cables with designing color codes provided by the technology department (see below)
- New switch configuration will be provided by the technology department prior to installation to enclosures.
- New fiber cables will be required as needed to support new SFP or SPF+ Switch Modules. Please note during site visit in documentation.
- Any additional patch panels or patch cables that were not noted by vendor during site visit will be provided by vendor unless requested by the District in writing stating additional cables or panel were added after site visit and contract awarded.
- Remove and replace all existing wireless AP's using existing connections. Remove and replace faulty network cables that may be damaged during replacement of new AP's. Please note on site visit documentation before bidding on the project.
- New wireless controller and AP's will be configured by the technology department prior to installation.
- Installation of enclosures may require re-positioning the cabinets in the closet. Please note in site visit documentation.
- Ensure all Patch panels and cables are rated Category 6E unless existing wiring supports only 5E. Also ensure all Fiber patch cables are replaced as needed to support new SFP Switch Modules. Please note in site visit documentation.

**Patch Cable Colors**

Color codes (approximate counts included on equipment spreadsheet):

- Data Drops/Other - Gray
- Access Points - Yellow
- UPS - Pink
- Firewall - Red
- Content Filter - Blue
- Server/SAN - Purple