



**RIO RANCHO PUBLIC SCHOOLS
PROCUREMENT DEPARTMENT**

December 20, 2018

ADDENDA #1

**RFP No. 2019-010-IT
Project: E-Rate Category 2**

RFP Submittal Deadline: January 24, 2019 @ 2:00 p.m. local time
Rio Rancho Public Schools
Purchasing Department
Attn: Michael Madrid, CPO, CPPB
Chief Procurement Officer
500 Laser Road NE
Rio Rancho, NM 87124

**Proposal Item#3 update
Switches, WAPs and various components
(Manufacture product clarification SKU)
Items have been Added and Deleted**

Product	P/N	Quantity	Unit Price \$	E-Rate Eligible Percentage	Extended Price \$
Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch	JL076A	9			
Aruba 3810M 48G PoE+ 1-slot Switch	JL074A	3			
Aruba 3810M 4-port Stacking Module	JL084A	12			
Aruba 3810M 4SFP+ Module	JL083A	8			
HPE 3800 0.5m Stacking Cable	J9578A	12			
Aruba X372 54VDC 1050W 110-240VAC Power Supply	JL087A	24			
HPE X132 10G SFP+ LC SR Transceiver	J9150A	13			
Aruba AP-515 (US) Dual Radio 4x4:4 + 2x2:2 802.11ax Internal Antennas Unified Campus AP	Q9H63A	61			

Aruba AP Airwave License *	LIC-AW	61			
Aruba AP Firewall License *	LIC-PEF	61			
Aruba AP License *	LIC-AP	61			
Aruba RFProtect License *	LIC-RF	61			
Aruba LIC-ENT	JW471AAE	61			
Aruba 1 Year Foundation	H8FN0E	61			
			Total:		

Question No. 1:

- Are you looking for a 2post or 4post rack?
- Are there specific dimensions of the rack or the area that the rack must fit in?
- How many “U” Spaces in each rack?
- Wall mounted or Standalone racks?

Answer to Question No. 1:

P. Equipment Racks and Enclosures: The equipment racks shall be made of lightweight steel and include mounting hardware. Enclosures shall be lockable, vented, include fan kits (50 cfm max per fan), and mounted in compliance with NEC clearance codes and ANSI/EIA/TIA mounting standards. Ladder rack is required for any applicable floor-mounted racks. All racks shall be grounded to the isolated ground bar within the TR / ER using a standard ground lug and #6 jacketed green cable. Contractor shall install Surge Protected Device (SPD), electrical receptacles as required to power up equipment in MDF and IDF racks and enclosures.

Q. Battery Backups / UPS: For projects requiring battery backups, contractor shall coordinate with RRPS – ITS Designee for size and type specifications. Typical UPS installations will be mounted at the bottom of a 4-post rack and serve power to rack mounted, vertical and horizontal power strips. Electrical receptacles for UPS’s shall be installed on the ladder rack and/or on adjacent walls at 84” AFF, below ladder rack. UPS’s shall have installed an SNMP network card, which will monitor input power and ambient temperature.

- Are you looking for a 2post or 4post rack? **4 post**
- Are there specific dimensions of the rack or the area that the rack must fit in? **not really...typically 2 racks per IDF/MDF Cabinet; 19"W x 84"H x 30"D;**
- How many “U” Spaces in each rack? **45U**
- Wall mounted or Standalone racks? **Standalone**

Under Project #2

Clarification to the drawing and notes to the total number of MDF/IDF. This site will have one (1) MDF and three (3) IDF. There locations are labeled on the drawing but note should say (3) IDF.

Site readiness - conduit use.

It is understood that the District will have already placed the underground and riser, etc. conduit in advance to support the E-Rate eligible wiring infrastructure.

Under Project #1

Fiber Optics & Re-cabling of Building IDF infrastructure – For both sites – RRHS and RRMS - The general understanding is that the existing conduit infrastructure is viable and can be reused to support the re-wiring. If it is found after the fact that there is damage to the conduit system; the awardee will notify the District to make a determination to move forward and adjust funding if necessary.

For RRMS – the project scope is only to include the fiber optic 12 stand multimode rewire between the primary MDF (2 new racks) and the existing IDF's (1 new rack each) -- standalone 45U, 4 post rack (see above)

Question No. 2:

Will the Black Box IDF, any portables (#1-16), or sports complexes (football, soccer, baseball) need to be re-cabled in this scope of work?

Answer to Question No 2:

No, not at this time

Question No. 3:

Does the 24-strand fiber that feeds the Gym terminate in the closet (Rm143) where the sports complexes feed out from? Does the wall mount rack (Rm145) in the adjacent gym storage closet need a fiber optic feed? Does the small exterior accessible closet (Rm164) located on the SW of the gym need a feed?

Answer to Question No 3:

Yes, Yes & Yes

Question No. 4:

Can the existing inner duct containing existing 62.5 fiber optic backbones be reused where it exists and where new inner duct is required can MaxCell fabric innerduct be utilized to facilitate pulling in new backbones?

Answer to Question No 4:

Yes

Question No. 5:

Will new fiber housings be required or will the existing fiber housings be reused?

Answer to Question No 5:

New fiber housing is preferred, but you can reuse the existing housing if it will accept new LC connections.

Question No. 6:

At the Rio Rancho High School is the scope of work limited to a re-cabling with 10Gbps backbone fiber from the Administration MDF to the primary IDF's in Gymnasium, Humanities, B&E, Fine Arts, Music, Scimatics, E&T, and Cafeteria?

Answer to Question No 6:

Yes, -- Hybrid optical cable - 12 strand Multimode and 24 strand single mode

Question No. 7:

At the Rio Rancho Middle School two downstairs IDFs were identified as needing upgraded fiber optic backbone cabling, one to the 600 wing Rm514 and one to this room's mirror image in the 400 wing, what is the strand count needed for this fiber optic cable and are any other backbones required?

Answer to Question No 7:

12 strand fiber multimode to each IDF only

Question No. 8:

At the Rio Rancho Middle school will the copper network cabling from feed points (MDF/IDF) need to be recabled with Category 6 or Category 6A cabling? If so will to scale plans and/or minimum requirements be made available for this proposed upgrade?

Answer to Question No 8:

For RRMS – the project scope is only to include the fiber optic rewire between the primary MDF (2 new racks) and the existing IDF's (1 new rack each) -- standalone 45U, 4 post rack (see above)

Question No. 9:

Is the Estimated Number of Feet of Cabling indicated on the pricing table for proposal #1 correct? It appears that either the Middle School and High School have been reversed and/or the footages are incorrect.

Answer to Question No 9:

The cabling estimates on the RFP are indeed estimates for E-rate compliance; based on the project scope the estimate can and could be changed to reflect true amounts. If there is a rule of thumb for cost estimation by foot that would be useful.

Question No. 10:

Are there to scale school design drawings for Joseph Harris Elementary School available and are there any additional requirements, beyond the stated (3 data drops per classroom, 2 per office, and 61 WAP drops), so that an accurate proposal can be prepared for this proposal item #2?

Answer to Question No 10:

The "to scale" drawing are available on the website; and please note there is clarification on Proposal item# 2 – Installation (3 data drops per classroom, 2 per office, 61WAP drops). The 3 data drops in the classrooms are to be on opposite walls, and one for an interactive teaching display; one in the ceiling (this is from the 61 WAP drops which are Cat#6A). So, a total of four (4) per classroom if you consider the WAP, but the WAPs are also located in different locations in the office area. All drops are Cat#6 and the WPS are Cat#6A

Question No. 11:

Please clearly identify any E-rate ineligible cabling requirements, locations and scopes of work in this RFP for whichever schools require such work.

Answer to Question No 11:

I can only identify what is eligible from USAC (via FCC DA 17-973 -

<https://www.usac.org/sl/applicants/beforeyoubegin/eligible-services-list.aspx>)

;if your solution contains something else, please identify in the BoM for eligibility consideration.

Category Two

The second category of equipment and services eligible for E-rate support, Category Two, includes the internal connections needed for broadband connectivity within schools and libraries. Support is limited to the internal connections necessary to bring broadband into, and provide it throughout, schools and libraries. These are broadband connections used for educational purposes within, between, or among instructional buildings that comprise a school campus (as defined below) or library branch, and basic maintenance of these connections, as well as services that manage and operate owned or leased broadband internal connections (e.g., managed internal broadband services or managed Wi-Fi). Category Two support is subject to per-school or per-library budgets as set forth in 47 CFR § 54.502. The eligible components and services in Category Two are:

Eligible Broadband Internal Connections

- Access points used in a local area network (LAN) or wireless local area network (WLAN) environment (such as wireless access points)
- Antennas, cabling, connectors, and related components used for internal broadband connections
- Caching
- Firewall services and components separate from basic firewall protection provided as a standard component of a vendor's Internet access service.
- Switches
- Routers
- Racks
- Uninterruptible Power Supply (UPS)/Battery Backup
- Wireless controller systems
- Software supporting the components on this list used to distribute high-speed broadband throughout school buildings and libraries

Notes: (1) Functionalities listed above that can be virtualized in the cloud, and equipment that combines eligible functionalities, like routing and switching, are also eligible.

(2) A manufacturer's multi-year warranty for a period up to three years that is provided as an integral part of an eligible component, without a separately identifiable cost, may be included in the cost of the component.

(3) Caching is defined as a method that stores recently accessed information. Caching stores information locally so that the information is accessible more quickly than if transmitted across a network from a distance. A caching service or equipment that provides caching, including servers necessary for the provision of caching, is eligible for funding.

Question No. 12:

Will each portable at the High School require fiber backbones and what strand count is required?

Answer to Question No. 12:

This is not required on this project scope

Question No. 13:

Will Plenum innerduct be required from the building entrance to the Telecommunications Room?

Answer to Question No. 13:

No, that is not required

Question No. 14:

Is fiber Optic Cabling from the Gym to Football/Soccer/Baseball Complex included in the required scope.

Answer to Question No. 14:

No, this is not required on this project scope

Question No. 15:

Can you please confirm that Category 6 cabling is not required within the scope at Rio Rancho High School

Answer to Question No. 15:

Correct, no Cat 6 required

Question No. 16:

Can you please clarify if the scope at Rio Rancho Middle school will required complete recabling, to include Category 6 cabling to the drops and Fiber Optic cabling to the existing Telecom Rooms?

Answer to Question No. 16:

For RRMS – the project scope is only to include the fiber optic rewire between the primary MDF (2 new racks) and the existing IDF's (1 new rack each) -- standalone 45U, 4 post rack (see above)

Question No. 17:

If recabling is required at RRMS, will drawings be provided with drop locations and quantities required?

Answer to Question No. 17:

For RRMS – the project scope is only to include the fiber optic rewire between the primary MDF (2 new racks) and the existing IDF's (1 new rack each) -- standalone 45U, 4 post rack (see above)

Question No. 18:

Can you please confirm new equipment racks will NOT be required at either RRHS or RRMS?

Answer to Question No. 18:

For RRMS – the project scope is only to include the fiber optic rewire between the primary MDF (2 new racks) and the existing IDF's (1 new rack each) -- standalone 45U, 4 post rack (see above)

For RRHS – no new racks are required

Question No. 19:

Can you confirm that the existing "Amp Bud" units can be removed in the event more rack space is needed?

Answer to Question No. 19:

Yes, they can be removed, but RRPS will make the space if need

Question No. 20:

Can you confirm how the Scope of work listed for Joe Harris Elementary School is intended to be awarded? i.e. allowance under General Contractor, direct to the District, or construction bid process through General Contractor?

Answer to Question No. 20:

For JHES – the intent is to be an allowance under GC via the District, but note that awardee will work under the GC to maintain project scheduling.

Question No. 21:

1. In reference to Proposal Item#1 – RRHS

- a. Will it be required to install 3 Cell maxcell into existing conduits?
- b. To IDF's in B&E, Fine Arts, Music, Scimatics, E&T, and Café RRPS is requiring a 12 Strand OM4 fiber? All but the Music and Cafeteria IDF are in the new IDF rooms correct?
- c. What strand fiber will be required to refeed the old IDF's in all these locations?
- d. A 6 strand OM4 fiber is required to feed each of the portable IDF's. (1 run to each set of portables)
- e. RRPS is require a 24 Strand OM4 Fiber to the GYM IDF?
- f. There is a requirement to add a 6 strand OM4 fiber from Gym IDF to IDF in room 164 of GYM correct?
- g. There are no required runs of fiber to the Field House, Soccer, or Baseball IDF's?
- h. If funded, when will this work have to be performed? It will require the network to be down for a period of time.
- i. Will fiber patch cords be required, how many and what lengths?

Answer to Question No. 21:

- a) Yes
- b) Yes
- c) The requirement is 12 strand multimode for JHES – for RRMS 12 strand multimode – for RRHS 12 OS2 / 24 OM4 - Hybrid optical cable - 12 strand Multimode and 24 strand single mode
- d) No, to first portable only
- e) Yes
- f) Yes
- g) That is correct
- h) Summer of 2019 - understood
- i) Yes, 50 each, 12 foot

Question No. 22:

2. In reference to Proposal Item#2 – RRMS

- a. Will RRPS provide a detailed scope of work required for RRMS. There is not any information provided in RFP.

b. Will there be an opportunity to go back to RRMS after scope of work provided?

Answer to Question No. 22:

- a. For RRMS – the project scope is only to include the fiber optic rewire between the primary MDF (2 new racks) and the existing IDF's (1 new rack each) -- standalone 45U, 4 post rack (see above)
- b. Sure...please let us know when so all responders can be included if they require it.

Question No. 23:

3. In reference to Proposal Item#3 – Joseph Harris ES Infrastructure cabling

- a. Please clarify, RFP states that the awardee will work under the General Contractor because this is a new site.
- b. Or will the awardee be issued a contract from General Contractor?
- c. Will the awardee be issued a contract from RRPS?
- d. When this project goes out to bid will it be required to submit bid to General Contractor's as well? Or will this work be an allowance for the contractor?
- e. Will there be cable trays or J-hook pathways provided by the General/Electrical as part of the school's construction or will the awardee have to provide all pathways?
- f. In regard to patch cords required? Lengths, how many?
- g. When will the construction drawings be available?
- h. In the RFP under installation, please clarify the number of drops. (3 per classroom – Is this 3 Cat 6 cables per location/outlet) (2 per office/WAP – Is this 2 cat 6 cables per location/outlet)
- i. In regard fiber backbones, how many strands of fiber to each IDF? (i.e., 6, 12, 24)
- j. Will there be a requirement for copper backbones? (25, 50, or 100 pair to each IDF)
- k. In the RFP under Installation it is requesting to provide the distance from the IDF to the classroom drop. Is this needed for every drop/cable or outlet/location? Or can this be an average per drop/cable or outlet/location?
- l. Under required equipment #1 states that the vendor will provide all materials, cabling racks, cable management, conduit, jacks faceplates, junction boxes and any other necessary equipment for the cabling of the project. Wouldn't the conduit and junction boxes be part of the general construction under the Electrical Contractor?
- m. Due to the timing of this proposal and the time the actual installation would happen there could be material price increases. (for example, the tariffs that were just implemented) Would RRPS allow for price increases due to these circumstances?

Answer to Question No. 23:

- a. Yes, this Cat#2 wiring is only part of a much larger project for the new school. The intent is to be an allowance under GC via the District, but note that awardee will work under the GC to maintain project scheduling.
- b. Yes, as an allowance to the GC
- c. Yes, as an allowance to the GC

- d. Yes, you should use your knowledge for the larger bid and make note...but this award will be an allowance to the GC as stated above
- e. Please include in your response whatever parts are required to provide the wiring and termination per the RFP specifications. These parts may include J-hooks and cable trays, but any conduit pathways will be provided by the GCs contract.
- f. The exact count is unknown, but plan on 400 with a typical length of 8 feet to keep the bid response equal; excerpt from the RFP - Installation will include both network (fiber/copper) termination and network racks, to include placement “rack & stack” of new network equipment (to include all cable management and components, i.e. raceways, D-rings, .etc. as needed), patch cables (~400 various lengths) and WAPs placement/installation.
- g. Full set of drawing will be available in January, but the Electrical are available now on the website
- h. Please note there is clarification on Proposal item# 2 – Installation (3 data drops per classroom, 2 per office, 61WAP drops). The 3 data drops in the classrooms are to be on opposite walls, and one for an interactive teaching display; one in the ceiling (this is from the 61 WAP drops which are Cat 6A). So, a total of four (4) per classroom if you consider the WAP, but the WAPs are also located in different locations in the office area. All drops are Cat#6 and the WPS are Cat#6A
- j) The requirement is 12 strand multimode for JHES – for RRMS 12 strand multimode – for RRHS 12 OS2 / 24 OM4 - Hybrid optical cable - 12 strand Multimode and 24 strand single mode.
- i. No copper to IDF from MDF for JHES, No for RRMS and No RRHS
- j. An average will be fine per IDF - please provide the approximate distance breakdown from each of the IDF to the classroom drop: (the reason to be able to establish approximate costing per drop). RRPS has provided the school design drawings which will indicate IDF/MDF locations and requirements as part of the bid.
- k. Yes, that would correct; the conduit and junction boxes would already be in place
- l. Yes, that is understood and will be accepted; please note the awardee would need to justify the change in the BoM for approval.

Thank you for your interest in Rio Rancho Public Schools.

ACKNOWLEDGE ADDENDUM WITH RFP:

COMPANY/FIRM NAME

SIGNATURE

DATE