

Announcement: Issuance of Data Wiring RFP

In this document you will find an RFP for adding drops to schools as we upgrade the communications systems. At this time the schools listed below are to be bid but additional schools may be added at time of walk through. This is part of our 2012-2013 erate application.

School	Estimated Drops
Frost	20
Albany Upper	15
Pine Ridge	24
Doyle	Unknown
Gray's Creek Elem	20
Technology Literacy Center	30+
Walker Elementary	18+

Request for Proposal  
Issued by  
Livingston Parish Public Schools

## 1.0 General Information

In order to address areas of need we are issuing this RFP.

- A. We will be addressing infrastructure needs for schools that will be part of our 2012-2013 erate application. For the most part, this will be for the installation of access points and will not be whole school wiring/re-wiring.

A list of the schools, scope of work in each school, and appendix will be reviewed at **February 23, 2012** mandatory meeting. Since the project is funded through different funding sources each school project must be listed separately as designated in Attachment 1 of this RFP.

*We have standardized on a Panduit/Corning platform. We prefer a total Panduit solution. If an alternate data solution is submitted with then it must be approved and all documentation must be provided indicating that it meets the same specs.*

The intent of this RFP and resulting response is to be in compliance with all rules and regulations established by the federal erate program for eligible entities and service providers, as well as, local and state purchasing requirements.

- a. This RFP does not commit LPPS to pay any cost incurred in the preparation or submission of any proposal or to procure or contract for any services. LPPS will, at its discretion, award the contract to the responsible vendor submitting the best proposal that complies with the RFP. LPPS may, at its sole discretion, reject any or all proposals received or waive minor defects, irregularities, or informalities therein.
- b. LPPS reserves the right to amend this RFP by an addendum issued up to five business days prior to the date set for receipt of proposals. Addenda or amendments will be mailed or faxed to all vendors who have procured copies of the RFP. If revisions are of such a magnitude to warrant, in LPPS's opinion, the postponement of the date for receipt of proposals, an addendum will be issued announcing the new date.

## 1.1 Instructions to Bidders

This section outlines specific instructions for proposal submission. Vendors not adhering to these instructions may be subject to disqualification without further consideration.

**This RFP is issued by:**

**Sandra Brewer, Director of Technology  
Livingston Parish Public Schools  
P O Box 1130  
13909 Florida Blvd  
Livingston, LA 70754  
Phone: (225) 686-4318  
Fax: (225) 686-4347**

**1.2.1 Clarification and Interpretation of RFP**

The words *must* or *will* in this Request for Proposal (RFP) indicate mandatory requirements. Taking exception to any mandatory requirement may be grounds for rejection of the proposal. There are other requirements LPPS considers critical but not mandatory. Therefore, it is important to respond in a brief but concise manner to each section of this document.

Indicate the level of compliance with:

- “Acknowledge.” – The Vendor has read and understood the information provided; however, no action is required of the Vendor.
- “Comply.” – Vendor meets the specifications.
- “Partially comply.” – Vendor meets part of the specification; always explain how, or the deviation.
- “Comply with clarification.” – Vendor meets the specification; however, the manner in which it is accomplished may be different from that specified by LPPS. Always provide clarifying information.
- “Exception.” – Vendor does not meet the specification. Please provide an alternative when possible.

**1.2.2 Preparation of Proposals**

The service provider shall submit Three (3) copies of proposal. All proposals must be on 8½” x 11” paper with at least one copy in a three-ring binder. All proposals will be received by **4:00 PM on March 2, 2012** and will be labeled: Response to Internal Connections Request for Proposal for *LPPS*.

The proposal will be submitted to:

Mail Address	Delivery Address
Sandra Brewer, Director of Technology P.O. Box 1130 Livingston, LA 70754	Sandra Brewer, Director of Technology 13909 Florida Blvd Livingston, LA 70754

- a. All equipment, accessories, hardware, labor, and materials must be furnished for the installation of communications plants specified. Any additional material or equipment necessary for installation and operation of the system not specified or described herein, will be deemed to be part of these specifications.
- b. A proposal which is in any way incomplete, irregular, or conditional will not be accepted unless approved in advance by LPPS.
- c. **Each contractor shall submit the following with his proposal**
  - Certificate of Insurance showing Workman's Compensation**
  - A copy of State Contractors license**
  - Copy of current SPAC**
  - Spin Number**
  - Copy of vendor certification for installation and termination of copper wiring plant**
  - Copy of vendor certification for installation and termination of fiber.**
  - Email address**

### **1.2.3 Procedures for Evaluating and Awarding the Bid**

The proposals will be evaluated based on the following criteria:

- a. Proposals will be examined for compliance with all the requirements in this RFP. Proposal that do not comply may be subject to disqualification without further consideration.
- b. Proposals will be objectively evaluated as to compliance by a qualified team.
- c. Oral presentations or written questions may be required for further clarifications.
- d. A best and final offer may be requested from some or all vendors. This will be the only opportunity offered to make changes in the proposal, along lines defined at the beginning of the best and final process.
- e. Final scoring will be based on a predefined method, and the proposal with the highest score will be selected for award, pending final contract negotiations.
- f. LPPS will notify all proposes when a vendor has been selected. Contract negotiations with the selected vendor will begin immediately after selection. Contracts will be for one year with voluntary extensions for one year after.

Weighted Evaluation Criteria

Pricing	25.0%
Compliance with requirements of RFP in proposal	20.0%
Certifications to install wiring solution	10.0%
Bid sheets by school with parts and drops listed as per indicated in RFP	15.0%
<b>Parts list and specifications in RFP</b>	5.0%
<b>Signed RFP enclosed with comply decisions checked</b>	10.0%
Reputation, years of service, previous experience with wiring contracts and LPPS	15.0%
Total	100.00%

1.2.4 Calendar of Events

The following reflects the project schedule:

Activity	Date
RFP released to vendors	January 23, 2012
Vendor's acknowledgment of intention to bid. This can be letter or email. Be sure to include email address, phone, and mailing address.	February 14, 2012
Site Visit (Mandatory). (All visit each site together) (Pre Bid meeting)	February 23, 24 2012
Meeting (Mandatory) to review scope of work and obtain any Addendums.	February 27, 2012
Proposal delivery	March 5, 2012
Evaluation	March 6&7, 2012
Notification of selection	March 9, 2012
Contract to be signed by	March 12, 2012

**Section 1**

ACKNOWLEDGE    COMPLY    PARTIALLY COMPLY    COMPLY WITH RESERVATIONS    EXCEPTION






Comments:

## 2. Site Visits and Proposal Specifications

### 2.1 Site Visits

- a. **Site Visits are mandatory.** (Responses will not be accepted from contractors not attending meetings) All contractors will meet the Director of Technology or designee at:

**8:30 AM on Wednesday, February 23, 2012**

Livingston Parish Public Schools  
13909 Florida Blvd.  
Livingston, LA 70754  
225-686-4318

- b. The contractors will walk through each plant together with the LPPS designee and/or Network Specialist. Revisits for measuring will be scheduled the same week. The person/persons submitting proposal must be present for site meeting.
- c. Contractors will be given floor layouts and notes sheets for walk through. These are not exact so we are not responsible for any differences in measurements.
- d. Because of the scope of the project and uniqueness of design and need at each plant, specific info will be given at each location as to drops, wiring room, design, testing and etc.
- e. After walk through, a meeting will be scheduled for question and answer and to review the scope of work.
- f. Any questions posed following the pre-bid meeting should be addressed via email, in writing, or faxed to Sandra Brewer. The resulting answers along with the questions will be forwarded to all contractors receiving the RFP, except as noted below.
- g. Contractors must notify Sandra Brewer **in writing**, (email will serve as written notice. [Sandra.Brewer@Lpsb.org](mailto:Sandra.Brewer@Lpsb.org) ) by **February 14, 2012** if they intend to submit a proposal in response to this RFP. Any information pertaining to this RFP which may be forthcoming after the due date will be sent only to those companies that have signified their intentions in writing, to submit proposals. In the event no notice has been received from your company by the due date it will be assumed that you do not intend to submit a proposal.

### 2.2 Proposal Considerations and Requirements

Schools listed on this bid are only an estimated listing of the schools that the Livingston Parish Public Schools plans to upgrade wiring plants. This estimation was derived after careful study and should be an accurate listing. However, the LPPS is in no way obligated to complete wiring in all the schools listed. The scope of the contract is dependent upon grant funding and board approval.

- a. Before submitting proposals for work, each contractor shall be held to have examined premises and satisfied himself as to existing conditions under which he will be obliged to operate, or that will in any manner affect work under this contract. ***No allowance will be made subsequently in the connection on***

***behalf of contractor for any error or negligence on his part.*** Bids will be opened by evaluation committee and there will be no discussions with contractors until evaluation of the proposals have been completed. Any subsequent discussions shall be at the discretion of Livingston Parish Public Schools. Contracts will be for one year pending board approval.

- b. After evaluation of all proposals received, Livingston Parish Public Schools intends to conduct negotiations with the contractor or contractors that Livingston Parish Public Schools considers best qualified to meet its requirements. Livingston Parish Public Schools reserves the right to reject any and all proposals and to waive any non-conformities, whenever such actions are in its best interest, as determined solely by Livingston Parish Public Schools.
- c. The contract, if awarded, will be awarded to the responsible bidder submitting the best bid for the system, plus any acceptable alternatives complying with the conditions and requirements of this RFP. Considerations other than cost alone will be used in making the determination of the successful contractor.
- d. Commencement of the work shall be subject to the discretion of Livingston Parish School Board, and Livingston Parish School Board reserves the right to make all decisions regarding this RFP, including, but not limited to, rejecting, without consideration, proposals which arrive late.
- e. The successful Contractor must agree that because of program funding requirement, each location will be listed separately in the final proposal with a breakdown showing # of drops, costs of materials and supplies and installation charges as illustrated in **Attachment 1**.
- f. The successful Contractor must agree that the contract will be for the scope of the project on an as funded, as needed, as approved basis.
- g. The successful Contractor must agree that each site will be invoiced separately and payment will only be made after required criteria are met copy of testing certificate and site maps are received. There will be a 15% hold back until all work is completed, test results and "AS Installed" drawings are submitted.
- h. The successful contractor will agree that by accepting the contract, the contractor will maintain the prices, which are submitted on Proposal for a period beginning **July 1, 2012 and ending June 30, 2013 with** a request for a possible one year extension extension (depending on erate approval).
- i. Contractor acknowledges that Livingston Parish Public Schools will rely on contractor's ability, expertise and knowledge of the system. Contractor shall be obligated to exercise the highest standard of care in performing its obligations. Contractor shall demonstrate to Livingston Parish Public Schools' satisfaction that it is of sound financial condition and is adequately bonded and insured.

## 2.3 RESPONSIBILITIES

### Contractor Responsibilities

- a. Providing all supervision, labor construction, tools, equipment, materials, transportation, erection, unloading, inspection and inventory housing. Must also return spare material as specified.
- b. Furnishing and installing materials for a complete structured cabling system unless specific provisioning or installation of materials is denoted in this RFP.
- c. Obtaining Livingston Parish School Board's and principal's permission before proceeding with any work necessitating cutting into or through any part of the building structure such as girders, beams, concrete, tile floors or partition ceilings.
- d. Promptly repairing all damage to the building due to carelessness of contractor employees and exercising reasonable care to avoid any damage to the building. Reporting to Livingston Parish School Board any damage to the building that may exist or may occur during the contractor's occupancy of the building.
- e. Installing the wire, cable and hardware in accordance with the specifications outlined herein.
- f. Promptly notifying Livingston Parish School Board at least one week prior to completion of work wherein such portions are ready for inspection.
- g. Coordinating all work with Livingston Parish School Board's representative that may be designated at a future date before the commencement of the installation.
- h. Maintaining insurance and appropriate warranty bonds on the proposed distribution system until such time as it is accepted by Livingston Parish School Board.
- i. Removing all tools, equipment, rubbish and debris from the premises and leaving the premises clean and neat upon completion of the work.
- j. **Ensuring that all employees are properly dressed.** If installation takes place while school is in session, all workers will wear t-shirts with company logo. The vendor is responsible for the conduct of all employees.
- k. Abiding by the safety and security rules in force on the work site per local and governmental regulation.
- l. Following industry standard installation practices and as defined by Section 8.

**Section 2**

**ACKNOWLEDGE**   **COMPLY**   **PARTIALLY COMPLY**   **COMPLY WITH RESERVATIONS**   **EXCEPTION**

Comments:

**3.01 Scope of Work for Data Communications Systems**

The intent of this project is to add or rerun data drops for access points and in some cases upgrade the wiring plant. Our goal to bring the wiring to parish specs, and perform other operations as determined on site visit. **All new wiring runs, and IDF's installed must comply to the following standards outlined in Section 3. Extent of work at any site will be determined on site visit.**

- A. The work shall include but not necessarily limited to the following:
1. Furnish and install firewall penetrations where applicable. Firewall penetrations must include sleeve and sealed with fire stopping material.
  2. Furnish and install fiber cables, fiber distribution panels, and associated hardware for installation on rack mountable LIUs and terminating fiber cable.
  3. Furnish and install one (1), two (2), or four (4) four-pair communications station cables to each data outlet location required as per specifications determined in on-site visit.
  4. Furnish and install modular data jacks at each data outlet as determine in on-site visit or as specified heroin.
  5. Furnish and install relay racks with patch panels terminating data station cables as determined in on-site visit.
  6. Furnish and install raceway where applicable
  7. **Ground racks to bonding backbone as determined on site visits**
  8. Move designated racks to cabinets (as determined in walk through)
  9. Test all new runs.
  10. Test and label existing runs and replace where agreed necessary. Replace biscuit boxes where necessary as determined on site visit.
  11. Label all faceplates and patch panels with preprinted labels as specified.

**3.02 OUALITY ASSURANCE**

- A. All work and equipment shall conform to the applicable portions of the following specifications, codes, and regulations.
1. Building Industry Consulting Services International (BICSI)
  2. Telecommunications Distributions Methods Manual
  3. BOCS and AT&T Plant Standards

4. ANSI/EIA/TIA Standards
5. National Electrical Code (NEC)
6. State Codes
7. Parish and local Codes
8. Contractor will be certified to install and terminate Panduit, Gen Speed Copper and corning Fiber or approved substitutions .

### **3.03 APPROVAL OF PRODUCT PRIOR TO PROPOSAL SUBMISSION**

- A. While the LPSB prefers the parts listed in this RFP and in the attachments because we would like to standardize and want our solution to be equivalent to the specifications of these parts. These standards are outlined in technology plan As per bid laws, other solutions will be considered, but must be approved prior to submitting proposal. In the schools listed all of the patch panes and jacks are Panduit and we expect to continue that. The fiber and LIUs are Corning. We expect to continue that. When requesting substitutions, it is the responsibility of the contractor to submit alternate certifications and specification showing comparability to the other parts listed.

### **3.04 PRODUCTS**

#### **3.04.1 DATA STATION CABLE**

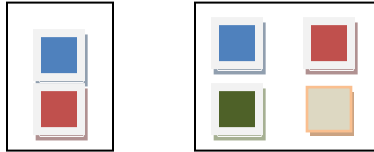
As listed below or approved equal.

- A. General Cable GENSPEED 6500 (Cat 6 rated) horizontal backbone cable shall be used for all data applications.
- B. General Cable part numbers: 7133374(CMR), 7131431(CMP) There are no plenum rated areas.
- C. Cable jacket shall be **blue** for all data cables.

#### **3.04.03 COMMUNICATIONS OUTLETS- raceway used in existing buildings**

- A. Using the preferred General/ Panduit solution, both wall and raceway-mounted outlets shall be mounted in single gang utility boxes and covered with dual or quad face plates CFP\*EI. Complete outlet shall consist of utility box, jacks, caddy clips, and cover plate.
- B. Outlets shall be Panduit consisting of 8-position, Category 6 compliant, RJ-45 modular jacks Part number **CJ688TG** or approved equal. Each outlet shall consist of one (1), two (2), or four (4) data jacks at each location as determined in on-site visit.

- C. In classrooms, each new jack shall be color-coded. Dual jack outlets shall have the **top-most, or left-most, jack colored blue and the bottom-most, or right most, jack colored red.** Quad jack outlets shall have **the top-left-most jack colored blue, the top-right-most jack colored red, the bottom-left-most jack colored green, and the bottom-right-most jack colored EI.** LABELING REQUIRED. In the LABS all jacks will we EI



#### 3.04.04 MDF/IDF Racks and Cabinets

- A. When new racks are needed, the MDF/IDF area, the relay racks shall be open frame design or cabinets, wall mounting (as determined by need and future growth) for 19" rack mounting equipment. Rack shall be suitable for front mounting of patch panels and/or owner furnished switches.
- B. The goal is to put (in nonsecure areas) **cabinets in classrooms where students are for protection of equipment and students and noise from equipment.** When Cabinets requested they shall be Great Lakes swing out cabinets with racks – size to be determined at site visit (GL24WM, GL36WM) configured with Plexiglas door and vented sides and 2 pair of 12-24 19" EAI rails.
- C. Furnish and install **Tack-Tape or Velcro wraps** for wire management on relay rack. **No plastic tie wraps shall be used on rack installed.**
- D. When new cabinets are installed the wall should be covered with rigidly fixed (3/4 trade size) A-C plywood capable of supporting attached equipment. Plywood should be either fire rated and/or covered with two coats of fire retardant paint.

#### 3.04.05 CONDUIT /Raceway

- A. PVC (flexible conduit) intended for power and communications applications and approved/suitable for underground installations.
- B. Raceway shall be Panduit raceway system and will include all elbows, T's, boots, and connectors needed. Examples will be in packet.

#### 3.04.06 PATCH PANELS (When new are needed)

- A. Data station cables shall terminate on rack mounted 24-port or 48-port patch panels (**Panduit CPPL24WBLY OR CPPL48WBLY OR APPROVED EQUAL**) as required. Panels should be multi-Media, quick-connect panels with RJ-45 snap-in modules, Category 6 complaint. Panels shall be 19" rack mounted. RJ-45 snap-in modules shall be color coded in direct correspondence in color to the other end of the cable terminated on the color-coded jack in the outlet box. Refer to section 3.04.03C.

### 3.04.07 FIBER DISTRIBUTION PANEL (When additional runs are needed)

- a. Fiber LIUs will be rack mountable in a 19" rack. The LIU shall be sized to accommodate the appropriate number of fiber connections. The LIU at the IDF will have one bulkhead and 1 blank. **THE LIU should be Panduit part number FRME4 or approved equal**. The LIU at the MDF will have a bulkhead for each IDF. The others will be blank. Fiber cables shall be routed to fiber distribution panels (**Panduit FAP6WEIDLC**).
- b. Fiber distribution panels shall be labeled with each strand marked permanently and appropriately with the corresponding Transmit and Receive the location to which the fiber pair is going.
- c. When re-terminating and re-running fiber to existing LIU, existing connections will be considered and termination method will be determined on walk through.
- d. **5-foot maintenance loops shall be used for each fiber run. These loops should be included to provide the ease of future equipment mobility and provide a tension free fiber run.**

### 3.04.08 FIBER OPTIC CABLE

- a. Fiber optic cable shall be multi-mode, 6 fiber 62.5/125/900 micron, and tight buffer suitable for indoor/outdoor applications. Preferred cable is **Corning Cable System FREEDM LST which is OFNR-rated, UV-resistant, fully waterblocked indoor/outdoor cables**. No inner duct is required for indoor installation. Conduit is required for exterior installation. If installation is underground then a trace wire shall be installed in the conduit. **Corning part numbers 006KSF-T4130D20 (inside/outside rated), and 006K81-31130-2461 (inside rated)**.
- b. Minimum Six (6) fiber strands shall be run between locations requiring fiber. All Strands will be terminated with **LC** connectors. Number of strands in cable will be noted for each job.
- c. Individual fiber strands shall be color coded per telecommunications industry practice.

**Section 3**

**ACKNOWLEDGE    COMPLY    PARTIALLY COMPLY    COMPLY WITH RESERVATIONS    EXCEPTION**

**Comment:**

## 4.0 EXECUTION

### 4.01 INSTALLATION

- a. **Unless otherwise specified, all communications systems shall be permanently installed and connected to the wiring system. The systems must be installed according to manufacturer standards and recommendations.**

### 4.02 DATA SYSTEM GENERAL REQUIREMENTS (For new runs)

- a. All cables, wires, and equipment shall be securely and neatly installed.
- b. Each station wire shall be plainly marked at its termination end of the patch panel with the room number to which it is connected.
- c. Data cables shall be routed above ceilings with cables neatly bundled with Tack-tape, VELCRO or approved substitute. No more than 24 cables shall be bundled. No plastic ties will be used.
- d. Contractor shall maintain recommend Category 6 bending radius, pulling tension, and cable support requirements. Tack-tape, VELCRO or approved substitute Cable ties may be finger tight, however, not so tight so they distort the outer jackets of the cable. Cable suspended above an open ceiling shall not rest on ceiling tiles or lighting fixtures, and shall be supported from roof structure at 4' to 6' intervals.
- e. Contactor shall follow telecommunications guidelines regarding the bending radius for fiber runs.
- f. Cables should be placed below ceiling in building with asbestos above ceiling tiles. Modular raceway shall house that cable. Asbestos documentation is available for review on request.

### 4.03 DATA CABLE INSTALLATION

- A. Station cable installation shall consist of the following (Panduit Raceway Systems):
  1. At each data outlet location the contractor shall install a single gang outlet and surface raceway must be furnished and installed as described in section 4.
  2. A (3) foot maintenance loop shall be included above each work station and (1) foot service loop at MDF to provide future equipment mobility and tension free runs.
  3. Each **cable** shall also be labeled to indicate the room number and outlet it corresponds to. For example. Room121 has 4 drops. The numbers would

be 121.1, 121.2, 121.3, 121.4. (**IF this were a lab with 33 drops this could go up to 121.33**)

4. **Each outlet box and patch panel connection for that cable shall be labeled to indicate the room number and outlet it corresponds to and the room where the cable terminates. As stated above.**
5. All cable and wiring identification shall be in compliance with ANSI/TIA/EIA/606 Structured Cabling Systems standards.

#### **4.05 GROUNDING SYSTEM**

A. All communications equipment racks that are installed or labeled or in anyway as a part of this contract, shall be grounded.. The ground shall be a #6 AWG THHN copper conductor, green insulated ground wire which shall be grounded to building steel or to contractor installed Telecommunications Main Grounding Bar (TMGB) in MDF or Telecommunications Grounding Bar (TGB) in IDF locations. The TMGB and the TGB shall be linked to each other via a #6AWG THHN Telecommunications Bonding Backbone (TBB) not to exceed 150ft . If TBB exceeds 150ft then the TBB wire gauge shall be increased in size to accommodate the additional lengths. The TMGB shall be grounded to the grounding electrode via bonding conductor for telecommunications (BCT) using #6AWG THHN not to exceed 30ft. The TMGB shall be a predrilled copper busbar with holes for standard-sized lug, having minimum dimensions of (.25in) thick by (4in) wide by variable length. The TGB shall be a predrilled copper bus bar with holes for standard-sized lug, having minimum dimensions of (.25in) thick by (2in) wide.

#### **4.06 COMMUNICATION CONTRACTOR QUALIFICATION**

The Communications Contractor shall be experienced in the design, fabrication, and installation of communications premise distribution systems of similar size and scope to this project. Installation technicians shall be manufacturer certified. Installer must be a PCI (Panduit Certified Installer) or certified in approved equal. Installer must be approved/certified to install Corning Fiber solutions.

#### **4.07 Walk Through, Punch List, Documentation and Testing**

- A. Before completion of the job it is the responsibility of the Contractor to request a walk through inspection by Network Administrator. A Punch list will be created and agreed upon.
- B. Upon completion of punch list items it is the responsibility of the Contractor to request a Final Inspection.
- C. Data wiring shall be tested upon completion of installation. A hard copy of the cable test results shall be provided with the "as installed" drawings upon completion of installation.
- D. Testing shall be in accordance with the following standards:

ASTM D 4566-98 Standard Test Method for Electrical Performance Properties of Insulation and Jackets for Telecommunications Wire and Cable, 1998

ANSI/TIA/EIA-568-B.2 Commercial Building Telecommunication Cabling Standard, Part 2: Balance Twisted-Pair Cabling Components, 2000.

- E. Data cables shall contain no defective pairs.
- F. The test procedures shall demonstrate, at a minimum, that all data cables shall be tested per to the most recent proposed EIA/TIA CAT 6 standard
- G. Each fiber optic cable shall be tested after installation by the contractor for optical power attenuation. Each LC cable termination may/shall have a maximum of 0.5dB loss, and a total loss of the cable shall be a maximum of 1.0 dB.
- H. The Network Specialist will be given the “as installed “ drawings, test results and approve final walk through before final payment will be made.

**Section 4**

**ACKNOWLEDGE    COMPLY    PARTIALLY COMPLY    COMPLY WITH RESERVATIONS    EXCEPTION**

**Comments:**

**Attachment 1**

**School/Facility Name:** \_\_\_\_\_

**Section A: Cat 6 Wiring Quotation**

Example of Quotation Breakdown

Fiber				
Qty	Description	Material	Labor	Extended
	Cat 6 Data Drops			
<b>Total</b>				

**Section B: Backbone Wiring (Additional items can be added or deleted based on scope of work)**

Qty	Description	Material	Labor	Extended
	Racks			
	LIU			
	Patch Panel			
	Fiber Backbone			
	Fan Out kits			
	LC Fiber Connectors			
<b>Total</b>				

Miscellaneous				
Qty	Description	Material	Labor	Extended
	*** Cabinets, Surge protectors , grounding, conduit, etc)			
	****Any other costs that will be part of job			
<b>Total</b>				

**TOTAL**

<b>Days</b>	<b>\$</b>
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**Scope of Work:** In this section outline what your quote is based on and number of days to complete job.

1. Quote is based on \_\_\_ Cat 6 drops to IDF in room???