

Request for Proposal Manchester City Schools

Manchester City Schools is requesting pricing for data cabling in each of the three schools in their district, Central Office, and Technology Center. Interested vendors are requested to submit their pricing in the form of a scope of work with firm, fixed pricing.

Manchester City Schools is seeking a “turn-key” solution that includes an assigned project manager to oversee all aspects of the cabling and switching requirements of the project. A complete bid shall include all material, labor, licensing and use tax. Each bid should include a scope of work outlining the installation of the project as well as a timeline telling the length of time to complete. This entire project will need to be completed during the coming summer. School will let out on May 24th, and all projects need to be complete by July 19th. Manchester City Schools does reserve the right to do only certain schools/ buildings or to change the schedule.

There will be a site visit to each of the schools on Thursday, April 25th. We will meet at the Manchester City Schools Central Office at 9am and then proceed to the other sites. Any questions will be answered at the pre-bid meeting April 25, 2013. All bids are due May 8th to the Central Office by 3pm. The site visit and pre-bid meeting are mandatory. Any vendor that does not attend the pre-bid meeting and walk through will not be considered for bid approval

Final selection of a vendor will be made by Manchester City Schools. A rubric will be used based off numerical scoring of four categories.

	<i>Criteria</i>	<i>Points</i>
1	Price	30
2	Overall Plan	25
3	Completion Time	20
4	Experience/ References	15
5	Thoroughness of Proposal	10

Manchester City Schools requires the use of American made, top tier products for wire. Please specify the solution being installed for evaluation purposes/brand.

It is the responsibility of the vendor to account for all material necessary for a complete installation.

Manchester City Schools Board of Education will not be responsible for any cost incurred by the Bidder in preparing proposal

The right to reject any or all bid proposals, either in whole or in part, or to waive any informalities or irregularities therein is reserved by Manchester City Schools Board of Education.

Employees of the selected contractor must have a sexual predator background check performed prior to entering any Manchester City Schools school grounds as per Tennessee Code Annotated Section 9-5-413.

The work shall comply with applicable federal, state, and local laws, rules and regulations including the prevailing wage guidelines, health and environmental regulations.

Required notices shall be given necessary governmental licenses and inspections procured.

Contractor shall be responsible to acquire any permits required within the scope of this project.

Contractor is responsible for their own safety, taking all necessary precautions to ensure the safety of the methods employed in this project.

The Contractor shall indemnify and hold harmless Manchester City Schools Board of Education from all liabilities, suits, damages, costs, and expenses that may be imposed on Manchester City Schools Board of Education because of the Contractor's failure to comply with the regulations stated herein.

Terms and Conditions

Reservation of Rights

The purchaser reserves the right to incorporate standard contract provisions to any contract negotiated as a result of any proposal submitted in response to the Request for Proposal (RFP). All of the following will apply:

- A. Negotiation, if undertaken by the purchaser, is intended to result in a contract that is deemed by the purchaser at its sole discretion to be in the purchaser's best interests. Any such negotiation will use the selected proposal or proposals as a basis to reach final agreement, if possible.
- B. The purchaser reserves the right to include in the contract the services and other terms and conditions not specifically set forth here, including, but not limited to terms and conditions required by laws, or interpretations of laws of local, state or federal governments. The purchaser reserves the right to waive or disregard any informality, irregularity, or deficiency in any proposal.

Licenses, Permits, Inspections, and Taxes

The Vendor shall give all notices and comply with all codes, laws, ordinances, rules and regulations of any public authority having jurisdiction that bears on the performance of its work. The Vendor shall pay for all licenses, permits, taxes, and fees required for this project; and shall comply with all federal, state, local, and the purchaser codes, laws, ordinances, regulations and other requirements applicable to the work specified at no additional cost to the purchaser.

Applicable Law

Any contract(s) or order(s) resulting from this Request for Proposal shall be governed and interpreted under the laws of the State of Tennessee. The contractor shall at all times comply with and observe all federal and State laws, local laws, building codes, ordinances, and regulations which are in effect during the period of this contract and which in any manner affect the work or its conduct. Where appropriate, all equipment and installation workmanship shall comply with specifications contained in Electronics Industries Association Standards and the

electrical Code. As pertinent, all equipment shall be FCC-certified, FCC type accepted and/or UL listed. All work shall be conducted according to the standards of the industry-wide and professional standards.

Contract Suspension, Termination, and Cancellation

The purchaser may cancel the contract in whole or in part:

- A. If the purchaser deems that such termination is in the best interest of the purchaser. Upon such termination, the purchaser's liability shall be limited to the reasonable value of services performed and deemed acceptable by the purchaser upon the date of such mutual agreement.
- B. In the event that the purchaser gives notice to terminate pursuant to this subsection, such notice shall be given no less than seven (7) days prior to the date on which the termination becomes effective. Upon such termination, the purchaser's liability shall be limited to the reasonable value of services performed and deemed acceptable by the purchaser as of the effective date of the termination.
- C. For cause, which shall include failure or unwillingness of the Vendor to comply with the approved program, including attached conditions, with applicable state law, or with such directives as may become generally applicable at the time.
- D. No cancellation will affect any expenditure or legally binding commitments made prior to receiving notice of the cancellation, suspension or termination provided such expenditures or commitments were made in good faith and not in anticipation of cancellation and are otherwise allowable.
- E. In the event of cancellation prior to the full term of the contract, the Vendor shall arrange to provide the purchaser all work documents.

Vendor's Liability

The Vendor shall be liable for damages arising out of injury to the person and/or damage to the property of the purchaser or its member sites, employees of the purchaser or its member sites, persons designated by the purchaser for any purpose, other than agents or employees of the contractor, prior to or subsequent to acceptance, delivery, installation, and use of the equipment either at the vendor's site or at the installation site, provided that the injury or damage was caused by fault or negligence of the Vendor.

Insurance

I. Indemnification

- A. The Vendor shall indemnify and hold harmless The Purchaser, its agents, and employees from or on account of any injuries or damages, received or sustained by any person or persons, during or on account of any operation connected with this Contract; or by consequence of any negligence (excluding negligence by The Purchaser, its agents, or employees) in connection with the same; or by use of any improper materials or by or on account of any act or omission of said Vendor or its subcontractors, agents, servants, or employees. The Vendor further agrees to indemnify and hold harmless

The Purchaser, its agents, or employees, against claims or liability arising from or based upon the violation of any federal, state, county, city, or other applicable laws, bylaws, ordinances, or regulations by The Vendor, its agents, associates, or employees.

- B. The indemnification provided above shall obligate The Vendor to defend at its own expense or to provide for such defense, at The Purchaser's option, of any and all claims of liability and all suits and actions of every name and description that may be brought against The Purchaser which may result from the operations be performed by The Vendor, subcontractor, or by anyone directly or indirectly employed by either.
- C. The award of this Contract to The Vendor shall obligate The Vendor to comply with the foregoing indemnity provision; however, the collateral obligation of insuring this indemnity must be complied with as set forth.

II. Liability and Insurance

- A. The Vendor shall assume the full duty, obligation, and expense of obtaining and maintaining
- B. necessary insurance.
- C. The Vendor shall be fully liable to provide and maintain in force during the life of this Contract, such insurance, Auto Liability Insurance, Workman's Compensation and Employer's Liability Insurance, as required by the laws of the State of Tennessee. The Vendor's policy shall contain as a minimum, the following provisions, coverage, and policy limits of liability.
- D. Workmen's Compensation insurance covering all employees in statutory limits who perform any of the obligations assumed by the Contractor under the contract.
- E. Public liability and property damage liability insurance covering all operations under the contract. Limits for bodily injury or death not less than \$500,000 for one person and \$500,000 for each accident; for property damage, not less than \$500,000 for each accident and \$1,000,000 aggregate umbrella for accidents during the policy period.
- F. Automobile liability insurance on all self-propelled vehicles used in connection with the contract, whether owned, non-owned, or hired. Public liability limits of not less than \$300,000 for one person and \$500,000 for each accident; property damage limit of \$500,000 for each accident.
- G. The Vendor shall furnish to The Purchaser a Certificate of Insurance, in such form as The Purchaser may prescribe, evidencing compliance with the foregoing requirements. Certifications of insurance must list the following as additionally insured: Manchester City Schools Board of Education.
- H. **Insurance Certificates:** Insurance certificates furnished by companies licensed to do business in the State of Tennessee indicating the required minimum coverage shall be furnished to the purchaser prior to contract award.

Payment for Services

- A. Vendors are to provide a suggested payment plan, which will be negotiated at the time of agreement/contract finalization.

- B. Payments by the purchaser to the Vendor shall be made according to the purchaser's payment cycle.

Total System Responsibility

It is understood, and the Vendor hereby agrees, that the Vendor shall be solely responsible for all equipment, materials and/or services that the vendor proposes, and where applicable, for equipment provided by the purchaser. Notwithstanding the details presented in this specification, it is the responsibility of the Vendor to verify the completeness of the equipment required and its suitability to meet the intent of this proposal. The vendor shall provide any additional equipment required for installation; it is understood that a complete system is required. The cost for additional equipment, materials and services not covered in this RFP shall be negotiated between the purchaser and the Vendor prior to issuance of the purchase order.

Rejecting Defective Work and Equipment

A. The purchaser's representatives will have the authority to disapprove or reject equipment and/or services which are defective, unsatisfactory, faulty, or do not conform to the requirements of the Contract Documents.

General Specifications

Listed below are general specifications that are required. Specific requirements will be listed in the separate building section. A detailed report of each site is required that lists part numbers, quantities, unit price, licensing, and labor costs.

Cabling

- Every school site will utilize a fiber backbone that is 10 GB/s.
- Fiber backbones between MDFs and IDFs should be 12 strand, 50 micron, LAZR optimized, OM3 10 Gig fiber. Fiber connectors should be SC.
- All fiber optic cabling will be terminated with laser optimized LC connectors and placed in rack mounted LIU's at each end. LC/LC 10 Gig patch cables will be furnished and installed in each MDF and IDF.
- Cabling bidder must provide manufacturer warranty of 15 years or greater
- Cabling bidder must provide proof of manufacturer certifications.
- Components tested to 650 MHz
- It should not be assumed that back-boxes will be provided for cable drops. Installing cables into the walls wherever possible is preferred, however latch-duct will be required in many places. Where latch-duct is used, a ceiling adapter should be installed to provide a neat appearance. Latch-duct will be installed neat and straight for aesthetics.
- Cabling jobs will include the creation of IDFs and MDFs. Vendor should include in their scope their plan for providing wall mount rack, lockable cabinets, or 7' Telecommunications racks, based on space. Open Relay Racks should include vertical management and ladder rack support to the wall.
- Vendor shall provide a 3' and 10' Category 6 patch cable of equal or better quality of installed wiring for every drop.
- All racks/cabinets should be grounded.

- Bertek LANmark-1000 (or equivalent) (the requirement for plenum or non-plenum cable will need to be determined by the county) will be installed in J-Hooks, supported at a minimum of every 5'.
- Where cable drops below the grid in the MDFs and IDF, it should be installed in a sleeve.
- Faceplates need to be same color (white is preferable) and have a clear plastic cover over the label. All labels must be computer generated and installed behind clear plastic cover
- Any wall penetrations should include a sleeve and fire-stop. There are certain Firewalls that the Fire Marshall has prohibited any penetrations. This will be pointed out in the walk through.
- Proposals should include add/delete pricing.
- Vendor shall supply passing test results for every copper cable as well as every strand of fiber.
- Describe warranty of installed solution.
- All cabling shall be certified with a Fluke Category 6a tester. Test results will be provided and will include the length of each cable, NEXT and attenuation reading for each pair in each cable, power sum readings, and certification that the cable and passive components meet or exceed all Category 6 specifications.
- Data jacks shall be Leviton Extreme 6 orange category 6 data jack part number 61110-RO6 (or equivalent)
- The cabling system should be installed by a contractor that is certified by the connectivity manufacture. Proof that the installation techs are certified to install the provided cable solution should be provided by the winning bidder.
- Wireless AP's will be supplied to the vendor at the time of installation. Heat maps are supplied at the end of the document and placement of AP's should reflect the same or similar placement as the map.

Equipment Installation

- Install network switches and patch in all required cable drops
- Provide documentation that will include the MAC address, serial numbers, and port patching information for network switches, wireless access points, and a customer provided floor plan with all cable ID numbers listed.
- Patch-in customer supplied Aerohive wireless access points.
- Equipment racks should allow room up to 30% room in rack space for future upgrades.

Switches/ UPS

- Each site will include a layer 3 switch equal to or better than HP 5400/8200 with additional redundant power supply.
- All layer three switches must have modules to allow for flexibility and must include multicast routing capabilities. If this is a license feature please include it in your bid.
- Each site will include layer 2 switches equal to or better than HP 2920 SERIES POE+ and non-POE (24 or 48 port).
- HP 2920 series (or equivalent) switches for all layer two services must support the ability to terminate a 10 Gigabit backbone without replacing the switch
- Switches should be appropriate for application (i.e. non-POE for wired networks, POE for phones, wireless etc.)
- All switches must be new and not gray market or refurbished.

- Lifetime Warranty (not a limited lifetime) on the switches, power supplies and GBICs. Warranty must remain in place forever, even after product has been issued end of life.
- Uninterruptable Power Supplies should be included in the line item bid. Bidders will recommend run time specifications and size for each MDF/IDF

Configuration/ Training

- Unbox all network equipment and put rack mount kits on
- Label all equipment with location and IP address
- Upgrade switches to the preferred firmware level
- Setup management IP address and gateway on all switches per location
- Setup SNMP communities for PCM+ discovery and configuration
- Setup Loop-Protect on all node ports on all switches
- Setup SSH and turn off telnet on all switches
- Setup HTTPS and turn off HTTP on all switches
- Setup Manager username and password on all switches
- Setup IGMP on all layer 2 switches on all VLANs that apply
- Setup the necessary VLAN's on all layer 2 switches per location
- Test connectivity across all subnets from each subnet
- Save configurations on all devices
- Perform hands on operational training on the installation and operation of the switches, as well as management of switches with Manchester City Schools Technology Staff
- Propose/ Price network management suite and licensing such as HP's IMC (or equivalent)

Abandoned Cabling Removal

Winning bidder shall furnish required labor for the removal of all abandoned cabling located in the ceiling. Key areas in school buildings such as offices that work in the summer will have zero downtime while cable is being installed.

Exceptions

- The installation will be performed during normal week day business hours (8:00am-4:00pm M-F)
- All electrical connections will be provided by Manchester City Schools.
- Sites will be cleaned on a daily basis from the day's work.

Owner reserves the right to reject any or all bids and contract with vendor that owner feels best meets their needs.

Bid specifics for each school**Central Office**

60 drops

1 MDF (Attendance Office)

<i>Room</i>	<i>Number of Rooms</i>	<i>Number of Drops</i>	<i>Total Drops</i>
Offices	10	4	40
Work Room downstairs	1	4	4
Work Room upstairs	1	3	3
Records	1	2	2
Board Room	1	4	4
Wireless	2	2	2
Break Room	1	1	1
Food Service	1	6	6
<i>Totals</i>			62

College Street Elementary

426 drops

1 MDF (Room 9) and 1 IDF (Room 33)

<i>Room</i>	<i>Number of Rooms</i>	<i>Number of Drops</i>	<i>Total Drops</i>
Offices	4	3	12
Classrooms	33	8	264
Main Lab	1	34	34
Secondary Lab	1	30	30
Library	1	16	16
Wireless		32	32
Gym Office	1	3	3
Family Resource	1	4	4
Workroom	1	8	8
Kitchen (Line)	1	2	2
Kitchen (Office)	1	2	2
EIS Office	1	4	4
Small Office (next to 25A)	1	2	2
Conference Room	1	4	4
Lounge	1	1	1
Nurse	1	2	2
Guidance	1	2	2
ESP	1	2	2
Cafeteria	1	2	2
<i>Totals</i>			426

Westwood Elementary

540 cables

1 MDF (Room 208) and 2 IDF's (Room 157, Room 175)

<i>Room</i>	<i>Number of Rooms</i>	<i>Number of Drops</i>	<i>Total Drops</i>
Offices	19	3	57
Classrooms	36	8	288
Main Lab	1	66	66
Music	1	4	4
Library/ Offices	1	18	18
Wireless		33	33
Gym Office	1	3	3
Art	1	4	4
Workroom	1	8	8
Kitchen (Line)	1	2	2
Kitchen (Office)	1	2	2
Data Coach (Office)	1	4	4
Conference Room	1	4	4
Lounge	1	1	1
Misc Offices (Lib- Commons Area)	12	4	48
Cafeteria	1	2	2
Totals			544

Westwood Middle School

365 cables

1 MDF (Nurse) and 2 IDF's (Tech Lab, Room 6)

<i>Room</i>	<i>Number of Rooms</i>	<i>Number of Drops</i>	<i>Total Drops</i>
Offices	8	3	24
Classrooms	22	8	176
Main Lab	1	42	42
Secondary Lab	1	34	34
Library	1	16	16
Library Office	1	2	2
Wireless		24	24
Gym Office	2	2	4
Workroom	1	8	8
Kitchen (Line)	1	2	2
Kitchen (Office)	1	2	2
Conference Room	1	4	4
Lounge	1	1	1
Nurse	1	2	2
Guidance	2	2	4
Cafeteria	1	2	2

Art	1	4	4
Band	1	4	4
Read 180	1	10	10
Totals			365

Technology Center

32 drops

Layer 3 Switch(s)

Fiber extension to Data Room

<i>Room</i>	<i>Number of Rooms</i>	<i>Number of Drops</i>	<i>Total Drops</i>
Lab	1	32	32
Wireless		2	2
Repair Shop	1	2	1
Totals			35