



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER
ISCM0053

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
KRISTA FERRELL 304-558-2596

RFQ COPY  
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

DEPARTMENT OF ADMINISTRATION  
 IS&C - COMMUNICATIONS  
 1900 KANAWHA BLVD. E.  
 BUILDING 5, 10TH FLOOR  
 CHARLESTON, WV  
 25305 304-558-5472

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/21/2011				

BID OPENING DATE: 12/21/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		280-75		
<p>TIES, CABLE &amp; WIRING</p> <p>REQUEST FOR QUOTATION (RFQ) CONSTRUCTION</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA OFFICE OF TECHNOLOGY, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH CABLE TELECOMMUNICATIONS SYSTEM INSTALLATION AT TWO (2) DEPARTMENT OF TRANSPORTATION LOCATIONS: DOT EQUIPMENT DIVISION LOCATED AT BRUSHY FORK ROAD IN BUCKHANNON, WEST VIRGINIA AND DOT MATERIALS DIVISION HEADQUARTERS LOCATED AT 190 DRY BRANCH ROAD IN CHARLESTON, WEST VIRGINIA PER THE ATTACHED SPECIFICATIONS.</p> <p>A MANDATORY PRE-BID WILL BE HELD ON 12/06/2011 AT 10AM AT THE EQUIPMENT DIVISION LOCATED IN BUCKHANNON, WV. A SITE VISIT SHALL IMMEDIATELY FOLLOW. ADDITIONALLY, A SECOND MANDATORY SITE VISIT WILL BE HELD ON 12/07/11 AT 10:00 AM AT THE MATERIAL DIVISION IN CHARLESTON, WV. VENDORS ARE REQUIRED TO ATTEND THE MANDATORY PRE-BID AND BOTH SITE VISITS. FAILURE TO ATTEND ANY OF WILL RESULT IN THE DISQUALIFICATION OF THE VENDORS BID. VENDORS MUST SIGN IN AT THE MANDATORY PRE-BID AND BOTH SITE VISITS. NO ONE PERSON MAY REPRESENT MORE THAN ONE BIDDER.</p> <p>AN ATTENDANCE SHEET WILL BE MADE AVAILABLE FOR ALL POTENTIAL BIDDERS TO COMPLETE. THIS WILL SERVE AS THE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS  
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at [www.state.wv.us/admin/purchase/vrc/hipaa.html](http://www.state.wv.us/admin/purchase/vrc/hipaa.html) and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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<p>OFFICIAL DOCUMENT VERIFYING ATTENDANCE AT THE MANDATORY PRE-BID. FAILURE TO PROVIDE YOUR COMPANY AND REPRESENTATIVE NAME ON THE ATTENDANCE SHEET WILL RESULT IN DISQUALIFICATION OF THE BID. THE STATE WILL NOT ACCEPT ANY OTHER DOCUMENTATION TO VERIFY ATTENDANCE. THE BIDDER IS RESPONSIBLE FOR ENSURING THEY HAVE COMPLETED THE INFORMATION REQUIRED ON THE ATTENDANCE SHEET. THE PURCHASING DIVISION AND THE STATE AGENCY WILL NOT ASSUME ANY RESPONSIBILITY FOR A BIDDER-S FAILURE TO COMPLETE THE PRE-BID ATTENDANCE SHEET. IN ADDITION, WE REQUEST THAT ALL POTENTIAL BIDDERS INCLUDE THEIR E-MAIL ADDRESS AND FAX NUMBER.</p> <p>ALL POTENTIAL BIDDERS ARE REQUESTED TO ARRIVE PRIOR TO THE STARTING TIME FOR THE PRE-BID. BIDDERS WHO ARRIVE LATE, BUT PRIOR TO THE DISMISSAL OF THE TECHNICAL PORTION OF THE PRE-BID WILL BE PERMITTED TO SIGN IN. BIDDERS WHO ARRIVE AFTER CONCLUSION OF THE TECHNICAL PORTION OF THE PRE-BID, BUT DURING ANY SUBSEQUENT PART OF THE PRE-BID WILL NOT BE PERMITTED TO SIGN THE ATTENDANCE SHEET.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV.</p> <p>DEADLINE FOR TECHNICAL QUESTION SUBMISSION IS 12/12/11 AT THE CLOSE OF BUSINESS (5:00 PM EST)</p> <p>ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL WRITTEN ADDENDUM TO BE ISSUED AFTER THE DEADLINE HAS LAPSED.</p> <p>VERBAL COMMUNICATION: ANY VERBAL COMMUNICATION BETWEEN THE VENDOR AND ANY STATE PERSONNEL IS NOT BINDING,</p>						

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<p>INCLUDING THAT MADE AT THE MANDATORY PRE-BID MEETING/ SITE VISITS.</p> <p>ONLY INFORMATION ISSUED IN WRITING AND ADDED TO THE RFQ SPECIFICATIONS BY AN OFFICIAL WRITTEN ADDENDUM BY PURCHASING IS BINDING.</p> <p>NO CONTACT BETWEEN THE VENDOR AND THE AGENCY IS PERMITTED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE STATE BUYER. VIOLATION MAY RESULT IN REJECTION OF THE BID. THE STATE BUYER LISTED ABOVE IS THE SOLE CONTACT FOR ANY AND ALL INQUIRIES AFTER THIS RFQ HAS BEEN RELEASED.</p> <p>EXHIBIT 5</p> <p>WEST VIRGINIA CODE 21-1D-5 PROVIDES THAT: ANY SOLICITA- TION FOR A PUBLIC IMPROVEMENT CONSTRUCTION CONTRACT REQUIRES EACH VENDOR THAT SUBMITS A BID FOR THE WORK TO SUBMIT AT THE SAME TIME AN AFFIDAVIT OF COMPLIANCE WITH THE BID. THE ENCLOSED DRUG-FREE WORKPLACE AFFIDAVIT MUST BE SIGNED AND SUBMITTED WITH THE BID AS EVIDENCE OF THE VENDOR'S COMPLIANCE WITH THE PROVISIONS OF ARTI- CLE 1D, CHAPTER 21 OF THE WEST VIRGINIA CODE. FAILURE TO SUBMIT THE SIGNED DRUG-FREE WORKPLACE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF SUCH BID.</p> <p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN XXXX CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS RECEIVED. UNLESS OTHERWISE SPECIFIED, THE FULLY EXECUTED PURCHASE ORDER WILL BE CONSIDERED NOTICE TO PROCEED.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE</p>						

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<p>RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN.</p> <p>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR THE COUNTY PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p>ARBITRATION: ANY REFERENCES MADE TO ARBITRATION OR INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED.</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000.(SEE SECTION 2.4)</p> <p>( ) BUILDERS RISK INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF BUILDERS RISK - ALL RISK INSURANCE IN AN AMOUNT EQUAL TO 100% OF THE AMOUNT OF THE CONTRACT.</p> <p>(XX) BONDS: FIVE PERCENT (5%) OF THE TOTAL AMOUNT OF THE BID PAYABLE TO THE STATE OF WEST VIRGINIA, SHALL B</p>						

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<p>SUBMITTED WITH EACH BID AS A BID BOND. THE SUCCESSFUL BIDDER SHALL ALSO FURNISH A PERFORMANCE BOND AND LABOR/MATERIAL BOND FOR 100% OF THE AMOUNT OF THE CONTRACT. BONDS MAY BE PROVIDED IN THE FORM OF A CERTIFIED CHECK, IRREVOCABLE LETTER OF CREDIT, OR BOND FURNISHED BY A SOLVENT SURETY COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE OF WEST VIRGINIA. A LETTER OF CREDIT SUBMITTED IN LIEU OF A BOND WILL ONLY BE ALLOWED FOR PROJECTS UNDER \$100,000. PERSONAL OR BUSINESS CHECKS ARE NOT ACCEPTABLE IN LIEU OF THE 5% BID BOND, PERFORMANCE BOND, OR LABOR AND MATERIAL BOND.</p> <p>( ) MAINTENANCE BOND: A TWO (2) YEAR MAINTENANCE BOND COVERING THE ROOFING SYSTEM WILL BE A REQUIREMENT OF THE SUCCESSFUL VENDOR.</p> <p>REV. 11/00</p> <p>EXHIBIT 7</p> <p>DOMESTIC ALUMINUM, GLASS &amp; STEEL IN PUBLIC WORKS PROJECTS</p> <p>IN ACCORDANCE WITH WEST VIRGINIA CODE 5-19-1 ET., SEQ., EVERY CONTRACT FOR CONSTRUCTION, RECONSTRUCTION, ALTERATION, REPAIR, IMPROVEMENT OR MAINTENANCE OF PUBLIC WORKS, WHERE THE COST IS MORE THAN \$50,000 AND, IN THE CASE OF STEEL ONLY, WHERE THE COST OF STEEL IS MORE THAN \$50,000 OR WHERE MORE THAN 10,000 POUNDS OF STEEL ARE REQUIRED, THE STATE WILL ACCEPT ONLY ALUMINUM GLASS, OR STEEL PRODUCTS PRODUCED IN THE UNITED STATES. IN ADDITION, ITEMS OF MACHINERY OR EQUIPMENT PURCHASED FOR USE AT THE SITE OF PUBLIC WORKS SHALL BE MADE OF DOMESTIC ALUMINUM, GLASS OR STEEL, UNLESS THE COST OF THE PRODUCT IS LESS THAN \$50,000 OR LESS THAN 10,000</p>						

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<p>POUNDS OF STEEL ARE USED IN PUBLIC WORKS PROJECTS.</p> <p>FOREIGN MADE ALUMINUM, GLASS OR STEEL PRODUCTS MAY BE ACCEPTED ONLY IF THE COST OF DOMESTIC PRODUCTS IS FOUND TO BE UNREASONABLE. SUCH COST IS UNREASONABLE IF IT IS 20% OR MORE HIGHER THAN THE BID PRICE FOR FOREIGN MADE PRODUCTS. IF THE DOMESTIC ALUMINUM, GLASS OR STEEL PRODUCTS TO BE SUPPLIED OR PRODUCED IN A "SUBSTANTIAL LABOR SURPLUS AREA", AS DEFINED BY THE UNITED STATES DEPARTMENT OF LABOR, FOREIGN PRODUCTS MAY BE SUPPLIED ONLY IF DOMESTIC PRODUCTS ARE 30% OR MORE HIGHER IN PRICE THAN THE FOREIGN MADE PRODUCTS.</p> <p>IF, PRIOR TO THE AWARD OF A CONTRACT UNDER THE ABOVE PROVISIONS, THE SPENDING OFFICER OF THE SPENDING UNIT DETERMINES THAT THERE EXISTS A BID FOR LIKE FOREIGN ALUMINUM, GLASS OR STEEL THAT IS REASONABLE AND LOWER THAN THE LOWEST BID DOMESTIC PRODUCTS, THE SPENDING OFFICE MAY REQUEST, IN WRITING, A REEVALUATION AND REDUCTION IN THE LOWEST BID FOR SUCH DOMESTIC PRODUCTS. ALL VENDORS MUST INDICATE IN THEIR BID IF THEY ARE SUPPLYING FOREIGN ALUMINUM, GLASS OR STEEL.</p> <p>REV. 3/88</p> <p>EXHIBIT 9</p> <p>NOTICE FOR ISSUANCE &amp; ACKNOWLEDGEMENT OF CONSTRUCTION PROJECT ADDENDA</p> <p>THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES:</p> <p>(1) THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM</p>						

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	NO. 2	.....				
	NO. 3	.....				
	NO. 4	.....				
	NO. 5	.....				
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>.....SIGNATURE</p> <p>.....COMPANY</p> <p>.....DATE</p> <p>REV. 11/96</p> <p>CONTRACTORS LICENSE</p> <p>WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY B</p>						

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<p>MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.</p> <p>WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.</p> <p>BIDDER TO COMPLETE:</p> <p>CONTRACTORS NAME: .....</p> <p>CONTRACTORS LICENSE NO.: .....</p> <p>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT</p> <p style="text-align: center;">APPLICABLE LAW</p> <p>THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.</p> <p>ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p>						

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/21/2011				

BID OPENING DATE: 12/21/2011                      BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
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***** THIS IS THE END OF RFQ ISCM0053 ***** TOTAL :						_____

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



## Request for Quotation ISCM0053

The Acquisition and Contract Administration Section of the Purchasing Division is soliciting bids for the Department of Transportation, hereinafter referred to as "DOT", in conjunction with the Office of Technology, hereinafter referred to as "WVOT", to acquire a cable telecommunications distribution system for two (2) DOT location headquarters.

### 1.0 PURPOSE

The purpose of this RFQ is to seek bids for a complete structured cable telecommunications distribution system for the **DOT Equipment Division Headquarters** at *Brushy Fork Road, Buckhannon, WV 26201* and for the **DOT Materials Division Headquarters** at *190 Dry Branch Road, Charleston, WV 25306*.

**This Request for Quotation covers the installation, testing, and acceptance of a structured infrastructure cable telecommunications distribution system. Prices quoted shall be all-inclusive and represent complete installation. The Vendor shall be responsible for all parts, labor and all other associated apparatus necessary to completely install, test, and turnover for acceptance to the WVOT**

### 1.1 Mandatory Pre-Bid Conference

A Mandatory Pre-Bid Conference will be held on 12/06/11 at 10:00 a.m. at the Equipment Division of Brushy Fork Road, Buckhannon, WV 26201, with a walk thru of the facility immediately following the meeting.

A mandatory walk thru of the second facility will be held on 12/07/11 at 10:00 a.m. at the Material Division, 190 Dry Branch Road, Charleston, WV 25306.

Bids shall not be accepted from any vendor not represented at the mandatory pre-bid meeting and walk thru of both facilities. An individual may represent only one (1) vendor at the meeting.

### 1.2 Incurring Costs

The State of West Virginia and any of its employees or officers shall not be held liable for any expenses incurred by any bidder responding to this RFQ for expenses to prepare, deliver the proposal, or to attend any mandatory prebid meeting or oral presentations.

### 1.3 Installation Completion Timeframe

The installation completion time for this RFQ is 90 standard business days after issuance of P.O. These 90 days for installation include the measuring of job and the ordering of materials.

### 1.4 Job Site Parking

There is vendor parking available on site. Equipment may be unloaded in the loading dock areas but vehicles will not be allowed to remain there.

### 1.5 Omissions

Omission in the bid of any provision herein described shall not be construed as to relieve The Vendor of any responsibility or obligation requisite to the complete and satisfactory delivery, operation, and support of any and all equipment or services.

## 1.6 Warranty

Materials and workmanship hereinafter specified and furnished shall be fully guaranteed by The Vendor for **fifteen years** from transfer of title against any defects. Defects which may occur as the result of faulty materials or workmanship within **fifteen years** after installation and acceptance by The WVOT shall be corrected by The Vendor at no additional cost to The WVOT. The Vendor's warranties shall commence with acceptance of/or payment for the work in full.

This warranty shall in no manner cover equipment that has been damaged or rendered unserviceable due to negligence, misuse, acts of vandalism, or tampering by The WVOT or anyone other than employees or agents of The Vendor. The Vendor's obligation under its warranty is limited to the cost of repair of the warranted item or replacement thereof, at The Vendor's option. Insurance covering said equipment from damage or loss is to be borne by The Vendor until full acceptance of equipment and services.

## 1.7 Inspection, Acceptance, and Title

Inspection and Acceptance will be at destination and upon successful installation unless otherwise provided. Title to/or risk of loss or damage to all items shall be the responsibility of the successful Vendor until acceptance by The WVOT, unless loss or damage results from negligence by The WVOT. If the materials or services supplied to The WVOT are found to be defective or do not conform to the specifications, The WVOT reserves the right to cancel the contract upon written notice to The Vendor and return products at The Vendor's expense, based upon the terms of the Contract.

The WVOT shall at all times have access to the work wherever it is in preparation or progress, and The Vendor shall provide proper facilities for such access and for inspection.

The Vendor shall not close up any work until The WVOT has inspected the work. Should The Vendor close up the work prior to inspection by The WVOT, The Vendor shall uncover the work for inspection by The WVOT at no cost to The WVOT, and then recover the work according to the specification contained herein.

The Vendor shall notify The WVOT in writing when the work is ready for inspection. The WVOT will inspect the work as expeditiously as possible after receipt of notification from The Vendor.

## 1.8 Price Quotations

Price quotations are to include the furnishing of all materials, equipment, maintenance and training manuals, tools, and the provision of all labor and services necessary or proper for the completion of the work, except as may be otherwise expressly provided in the Contract Documents. The WVOT will not be liable for any costs beyond those proposed herein and awarded. **Time and materials quotes will be unacceptable.**

## 1.9 Price Stability

Contract prices and discounts shall be fixed.

## 1.10 Prime Vendor

A single Vendor shall be the Prime Vendor and the Prime Vendor responsibilities shall include performing overall project administration and serving as a focal point for The WVOT to coordinate and monitor plans and schedules, maintain project budget and status information, administer changes required, preside over other Vendors participating or present at The WVOT meetings, and oversee preparation of reports and presentations. Prime Vendor shall also prepare and present a consolidated invoice for work performed. The WVOT shall issue only one (1) check for each consolidated invoice. Prime Vendor shall remain responsible for performing tasks associated with installation and implementation.

## 1.11 Compliance with Laws and Regulations

The Vendor performance of the work shall comply with applicable federal, state, and local laws, rules, and regulations. The Vendor shall give required notices, shall procure necessary governmental licenses and inspections, and shall pay without burden to The WVOT, all fees and charges in connection therewith unless specifically provided otherwise. In the event of violation, The Vendor shall pay all fines and penalties, including attorney's fees and other defense costs and expenses in connection therewith.

#### 1.11.1 Federal Communications Commission

Equipment requiring FCC registration or approval shall have received such approval and shall be appropriately identified.

#### 1.11.2 Codes, Standards, and Ordinances

All work shall conform to the latest edition of the *National Electrical Code*<sup>®</sup>, the Building Code, and all local codes and ordinances, as applicable. ANSI/TIA/EIA-568-B.1 through ANSI/TIA/EIA-568-B.3, NECS/BICSI-568 and ANSI/TIA/EIA-569-A shall be adhered to during all installation activities. Methodologies outlined in the latest edition of the BICSI *Telecommunications Distribution Methods Manual* shall also be used during all installation activities. Should conflicts exist with the foregoing, the authority having jurisdiction for enforcement will have responsibility for making interpretation.

### 1.12 Safety

The Vendor shall take the necessary precautions and bear the sole responsibility for the safety of the methods employed in performing the work. The Vendor shall at all times comply with the regulations set forth by federal, state, and local laws, rules, and regulations concerning "OSHA" and all applicable state labor laws, regulations, and standards. The Vendor shall indemnify and hold harmless The WVOT from and against all liabilities, suits, damages, costs, and expenses (including attorney's fees and court costs) which may be imposed on The WVOT because of The Vendor, subcontractor, or supplier's failure to comply with the regulations stated herein.

### 1.13 Patents and Royalties

The Vendor, without exception, shall indemnify and hold harmless The WVOT and its employees from any liability of any nature or kind, including costs and expenses for, or on account of, any trademarked, copyrighted, patented, or non-patented invention, process, or article manufactured or used in the performance of the Contract, including its use by The WVOT. If The Vendor or subcontractor uses any design, device, or materials covered by letters, patent, trademark, or copyright, it is mutually understood and agreed without exception that the bid prices shall include all royalties or cost arising from the use of such design, device, or materials in any way involved in the work.

## 2.0 QUALIFICATIONS

### 2.1 Project Manager

The Vendor will provide a Project Manager who will act as a single point of contact for all activities regarding this project. The Project Manager will be required to make on-site decisions regarding the scope of the work and any changes required by the work. The Project Manager must be on the job at any time work is being performed or workers are present. The Project Manager will be totally responsible for all aspects of the work and shall have the authority to make immediate decisions regarding implementation or changes to the work.

### 2.2 Construction Manager

The WVOT shall provide a Construction Manager who shall act as a single point of contact for all activities regarding this project. The Construction Manager will be responsible for all decisions required of The WVOT and shall coordinate with all departments during installation activities. The Construction Manager shall notify

The WVOT Inspector when inspections are scheduled and shall coordinate the inspection between The Vendor and The WVOT Inspector.

## 2.3 Experience

2.3.1 The selected Vendor must be in the installation business of **structured cabling telecommunications distribution system** the size and scope as the one specified.

2.3.2 The Vendor must have an **RCDD® (Registered Communications Distribution Designer)** on staff that will be ultimately responsible for this project. The RCDD must have experience in the installation of **structured cabling telecommunications distribution systems** the size and scope as the one specified in this type of project to be able to lend technical support to the field forces during installation, during the warranty period, and during any extended warranty periods or maintenance contracts. A list of the **structured cabling telecommunications distribution systems** the size and scope as the one specified must be included to display the ability of the RCDD to oversee this project. Should the RCDD assigned to this project change during the installation, the new RCDD assigned must meet all requirements of the RFQ.

2.3.3 The Vendor must have **Systimax, Siemon and BICSI Registered Installers and Technicians or equal** on staff and assign them to this project. The project should be staffed at all times by certified Installers and Technicians

2.3.4 The vendor must provide a telecommunications technician. This technician must have experience with cable and related telecommunication systems work in a multi-building campus environment. A list of the cable and related telecommunication systems in a multi-building campus environment must be included to display the ability of the technician to work on these systems. This technician must have experience on legacy systems including but not limited to 1A2 key, PBX and hybrid systems. A list of the legacy systems including but not limited to 1A2 key, PBX and hybrid systems must be included to display the ability of the technician to work on these systems.

2.3.5 The vendor must also provide an on-site project clerk/assistant for up to 20 hours weekly as deemed necessary by The State and /or The Vendor. Project clerk/assistant should have telecommunications related experience with similar telecommunications projects.

## 2.4 Liability and Insurance

The Vendor shall assume the full duty, obligation, and expense of obtaining and maintaining necessary insurance.

### 2.4.1 Insurance Coverage

The Vendor shall be fully liable to provide and maintain in force during the life of this Contract, such insurance, including Public Liability Insurance, Product Liability Insurance, Auto Liability Insurance, Worker's Compensation, and Employer's Liability Insurance as will assure to The WVOT the protection contained in the foregoing indemnification provision undertaken by The Vendor. Such policies shall be issued by United States Treasury-approved companies authorized to do business in the State of West Virginia and having agents upon whom service of process may be made in The WVOT and shall contain as a minimum, the following provisions, coverage's, and policy limits of liability.

### 2.4.2 General Liability

General Liability Insurance shall protect The WVOT, The Vendor, subcontractor, agents, and employees from claims for damages. The limits of liability provided by such policy shall be no less than Five Hundred Thousand Dollars (U.S. \$500,000.00) per occurrence combined single limit bodily injury and property damage, and an amount not less than One Million Dollars (U.S. \$1,000,000.00) for damages on account of all occurrences.



### 2.4.3 Product Liability

Product Liability or Completed Operations Insurance shall have bodily injury limits of liability of not less than Five Hundred Thousand Dollars (U.S. \$500,000.00) per person; Five Hundred Thousand Dollars (U.S. \$500,000.00) per occurrence, and Five Hundred Thousand Dollars (U.S. \$500,000.00) aggregate.

### 2.4.4 Auto Liability

Auto Liability Insurance shall have bodily injury limits of not less than Three Hundred Thousand Dollars (U.S. \$300,000.00) per occurrence and property damage limits of not less than One Hundred Thousand Dollars (U.S. \$100,000.00).

### 2.4.5 Workers' Compensation and Employer's Liability

Workers' Compensation and Employer's Liability Insurance shall meet minimum requirements set by the State of West Virginia, but in no case less than One Hundred Thousand Dollars (U.S. \$100,000.00).

## 2.5 Special Conditions

This facility is a facility that provides services to the State of West Virginia and all those having business with the State. As such, activities in all buildings are critical to the provisioning of services and shall not be interrupted by The Vendor's work activities.

The computer and telecommunications systems associated with this work must not be taken off-line or removed from service during normal working hours without The Vendor first making specific arrangements to coordinate any such activities.

The Vendor will be required to work around all of the conditions listed above, as well as working with The WVOT staff to minimize disruptions to normal Customer activities.

## 3.0 INSTALLATION GUIDELINES

This RFQ includes equipment, materials, labor, and services to provide telecommunications distribution system infrastructure cable including, but not limited to copper twisted pair and multi strand fiber; System testing; Documentation and providing all equipment, materials, labor, and services, not specifically mentioned or shown, which may be necessary to complete or perfect all parts of the installation.

### 3.1 WORK HOURS

- 3.1.1 Notice of anticipated hours provided to the DOT Contact, Equipment Division Contact, Materials Division Contact and/or the Office of Technology Contact.
- 3.1.2 Work areas will be defined as a standard working space, cubical, office, file room, etc.
- 3.1.3 Disruption of work areas must be kept to a minimum. It is the desire of the DOT that no work areas be unusable between the hours of 5:00am and 5:00pm.
- 3.1.4 Work in the main hallways at all times is permissible as long as no egress pathways are blocked. Proper safety precautions must be in place at all times. An employee of the vendor or if available a State Employee must be present and monitor any open floor duct areas between **the hours of 5:00am and 5:00pm**. Outside of these hours proper safety precautions must be maintained and clearly mark the open areas.

3.2 All work performed on this project will be installed in accordance with the current edition of the *National Electrical Code*<sup>®</sup>, the current edition of the *National Electrical Safety Code*<sup>®</sup>, the current issue of the

ANSI/NECA/BICSI-568 *Standard for Installing Commercial Building Telecommunications Cabling*, the current edition of the BICSI *Telecommunications Distribution Methods Manual*, the current edition of the BICSI *Cabling Installation Manual*, the latest issue of the ANSI/TIA/EIA Standards as published by Global Engineering Documents as ANSI/TIA/EIA *Telecommunications Building Wiring Standards*, and all local codes and ordinances.

**3.3** At a minimum, not limited to, design, manufacture, test, and install telecommunications infrastructure cable per manufacturer's requirements and in accordance with NFPA-70 (*National Electrical Code*®), state codes, local codes, requirements of authorities having jurisdiction, and particularly the following standards:

3.3.1 ANSI/NECA/ Telecommunications Cabling

3.3.2 ANSI/TIA/EIA-568-B.1 -- *Commercial Building Telecommunications Cabling Standard, Part 1: General Requirements*

3.3.3 BICSI-568 -- *Standard for Installing Commercial Building* ANSI/TIA/EIA-569-A -- *Commercial Building Standard for Telecommunications Pathways and Spaces*

3.3.4 ANSI/TIA/EIA-606(A) -- *The Administration Standard for the Telecommunications Infrastructure of Commercial Buildings*

3.3.5 ANSI/TIA/EIA-607(A) -- *Commercial Building Grounding and Bonding Requirements for Telecommunications*

**3.4** Install in accordance with the most recent edition of BICSI® publications: BICSI -- *Telecommunications Distribution Methods Manual*

**3.5** Federal, state, and local codes, rules, regulations, and ordinances governing the work, are as fully part of the specifications as if herein repeated or hereto attached. If the contractor should note items in the drawings or the specifications, construction of which would be code violations, promptly call them to the attention of the State of West Virginia's representative in writing. Where the requirements of other sections of the specifications are more stringent than applicable codes, rules, regulations, and ordinances, the specifications shall apply.

## INFRASTRUCTURE CABLE SYSTEM DESCRIPTION

**4.0** The use of brand name or equal specifications

### ALL FIBER AND COPPER CABLE AS WELL AS ALL TERMINATION AND INSTALLATION MATERIAL USED MUST BE FROM A SINGLE MANUFACTURE

*The use of brand name or equal specifications is for the purpose of describing the minimum standard of quality, technical performance and installation characteristics required and are not intended to limit or restrict competition.*

*Alternate bids that meet or exceed those of the brand name or equal specifications and features are invited. In order to receive full consideration, such alternate bids should be accompanied by sufficient descriptive literature and/or samples to clearly identify the offer and allow for a complete evaluation.*

**4.1** Interlocking Armored Fiber-Optic Riser-Rated Premises Cable (OFCR) approved

**4.1.0** Plenum rated

**4.1.1** The plenum rated interlocking armored cable shall be used where additional protection and security is deemed necessary such as: building backbone, zone distribution, raised floor, data centers and storage area networks (SANs)

**4.1.2** The interlocking armor shall support single mode and multimode riser rated cable. Composite

riser rated cables, with any combination of sm and mm fibers shall also be supported.

**4.1.3** The manufacturing process shall include application of a steel or aluminum interlocking armor spirally around riser-rated premises distribution cable and then shall be over-jacketed with a plenum rated sheath

**4.1.4** The plenum rated sheath shall allow for easier handling and pulling.

**4.1.5** The interlocking armor and fiber cable shall be from a single manufacturer.

**4.1.6** Available fiber counts shall range from 2 to 72, with others available at request.

**Environmental and Mechanical:**

	Specification	Test Method
Operating Temperature	-20°C to +70°C	FOTP - 3
Installation Temperature	0°C to +70°C	N/A
Storage Temperature	-40°C to +70°C	N/A
Crush Resistance	85 N/mm	FOTP - 41
Impact Resistance	35 N-m	FOTP - 25
Flexing	Exceeds	FOTP - 104
Cable Bend	Exceeds	FOTP - 85

**Physical Specifications**

**Aluminum Armored Plenum Cable:**

Fiber Count	Outer Diameter in. (mm)		Weight lbs/kft (kg/km)		Minimum Bend Radius in. (cm)				Max. Tensile Load lbs. (Newtons)				Maximum Vertical Rise Feet (Meters)	
					Loaded		Unloaded		Short Term		Long Term			
2	0.56	14.1	100	(148)	11.1	(28.2)	7.8	(19.7)	225	(1,001)	68	(300)	677	(206)
4	0.56	14.1	103	(154)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	872	(266)
6	0.56	14.1	106	(158)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	849	(259)
8	0.56	14.1	108	(160)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	836	(255)
12	0.56	14.1	112	(166)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	806	(246)
18	0.76	19.2	197	(294)	15.1	(38.4)	10.6	(26.8)	300	(1,335)	90	(400)	456	(139)
24	0.81	20.4	226	(336)	16.1	(40.9)	11.3	(28.6)	300	(1,335)	90	(400)	398	(121)
36	0.86	21.7	282	(420)	17.1	(43.4)	12.0	(30.4)	300	(1,335)	90	(400)	319	(97)
48	0.91	23.0	302	(449)	18.1	(46.0)	12.7	(32.2)	300	(1,335)	90	(400)	298	(91)
60	1.01	25.5	352	(524)	20.1	(51.1)	14.1	(35.7)	300	(1,335)	90	(400)	255	(78)
72	1.11	28.1	418	(622)	22.1	(56.1)	15.5	(39.3)	300	(1,335)	90	(400)	215	(66)
96	1.26	31.9	569	(847)	25.1	(63.8)	17.6	(44.6)	300	(1,335)	90	(400)	158	(48)

**Steel Armored Plenum Cable:**

Fiber Count	Outer Diameter in. (mm)		Weight lbs/kft (kg/km)		Minimum Bend Radius in. (cm)				Max. Tensile Load lbs. (Newtons)				Maximum Vertical Rise Feet (Meters)	
					Loaded		Unloaded		Short Term		Long Term			
2	0.56	14.1	157	(233)	11.1	(28.2)	7.8	(19.7)	225	(1,001)	68	(300)	431	(131)
4	0.56	14.1	160	(238)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	562	(171)
6	0.56	14.1	163	(243)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	552	(168)
8	0.56	14.1	165	(245)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	547	(167)
12	0.56	14.1	169	(251)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	534	(163)
18	0.76	19.2	285	(423)	15.1	(38.4)	10.6	(26.8)	300	(1,335)	90	(400)	316	(96)
24	0.81	20.4	321	(477)	16.1	(40.9)	11.3	(28.6)	300	(1,335)	90	(400)	281	(86)
36	0.86	21.7	384	(572)	17.1	(43.4)	12.0	(30.4)	300	(1,335)	90	(400)	234	(71)
48	0.91	23.0	412	(613)	18.1	(46.0)	12.7	(32.2)	300	(1,335)	90	(400)	219	(67)
60	1.01	25.5	476	(709)	20.1	(51.1)	14.1	(35.7)	300	(1,335)	90	(400)	189	(58)
72	1.11	28.1	557	(829)	22.1	(56.1)	15.5	(39.3)	300	(1,335)	90	(400)	162	(49)
96	1.26	31.9	730	(1,087)	25.1	(63.8)	17.6	(44.6)	300	(1,335)	90	(400)	123	(38)

**4.2.1.** Single mode fiber optic Premises Cable – Zero Water Peak – Plenum Interlocking Armored Fiber-Optic Plenum-Rated Premises Cable (OFCR) approved

4.2.2. The cable shall be available in plenum type.

4.2.3. The premises cable shall use a standard colored tight buffered construction.

4.2.4. The higher fiber count cables shall utilize a sub-unitized design with color-coded sub units for easy identification.

4.2.5. The cable shall deliver a cost-effective upgrade path by expanding the available wavelengths by 50% and allowing up to 18 channels of CWDM (Coarse Wave Division Multiplexing) on a single fiber and up to 400 channels of DWDM (Dense Wave Division Multiplexing) on a single cable.

4.2.6. The cable shall operate over the entire wavelength range from 1260 nm to 1625 nm, removing the water peak (high attenuation) in the E-band, adding more than 50% in operational wavelength range over conventional single mode fiber.

4.2.7.

**Physical Specifications:**

Core Diameter:	8.3 μm nominal
Cladding Diameter:	125.0 (± 0.7) μm
Core/Clad Offset:	< 0.5 μm
Cladding Non-Circularity:	< 1%
Coated Fiber Diameter:	245 (± 10) μm
Cladding/Coating Offset:	< 12 μm
Colored Fiber Diameter:	254 (± 7) μm
Proof Test:	0.7 GPa
Fiber Curl:	> 4 m
Dynamic Fatigue Parameter:	-18 >
Macrobend (100 turns, 50 mm mandrel):	0.10 dB @ 1310 nm and 1550 nm
Macrobend (1 turn on a 32 mm mandrel):	0.50 dB @ 1310 nm and @ 1550 nm

**Optical Specifications**

Mode Field Diameter:	9.2 (± 0.3) μm @ 1310 nm 10.4 (nominal) @ 1550 nm
Group Index of Refraction:	1.466 @ 1310 nm and 1383 (± 3) nm, 1.467 @ 1550 nm
Attenuation of Tight Buffered Fibers:	0.7 dB/km @ 1310 nm 0.7 dB/km @ 1385 nm 0.7 dB/km @ 1550 nm
Maximum Dispersion:	3.5 ps/nm-km @ 1285 to 1330 nm, 18 ps/nm-km @ 1550 nm
Zero-Dispersion Wavelength:	1300 - 1322 nm
Zero-Dispersion Slope:	0.092 ps/(nm) <sup>2</sup> km)
Polarization Mode Dispersion LDV:	0.08 ps/(km) <sup>2</sup>

**Physical Characteristics - RISER Rated:**

Fiber Count	Flame Rating	Outer Diameter		Weight		Minimum Bend				Max. Tensile Load		Maximum			
		in.	mm	lbs/kft	kg/km	Loaded	Unloaded	Short Term	Long Term	Vertical					
						in.	cm	in.	cm	lbs.	N	lbs.	N	ft	m.
2	Riser	0.16	4.1	8.6	12.9	3.2	8.1	1.6	4.1	225	1001	68	300	1640	500
4	Riser	0.19	4.8	13.1	19	3.8	9.5	2.0	5.1	300	1335	90	400	1640	500
6	Riser	0.20	5.1	15.2	23	4.1	10.3	2.0	5.1	300	1335	90	400	1640	500
8	Riser	0.22	5.5	17.2	26	4.3	11.0	2.2	5.5	300	1335	90	400	1640	500
12	Riser	0.23	5.8	18.8	28	4.6	11.7	2.3	5.8	300	1335	90	400	1640	500
18	Riser	0.48	12.3	99.8	148	9.7	24.6	4.8	12.3	600	2670	180	801	1640	500
24	Riser	0.56	14.1	106.7	159	11.1	28.2	5.6	14.1	600	2670	180	801	1640	500
36	Riser	0.56	14.2	118.7	177	11.2	28.4	5.6	14.2	800	3560	240	1068	1640	500
48	Riser	0.62	15.7	126.6	188	12.3	31.3	6.2	15.7	800	3560	240	1068	1640	500
60	Riser	0.70	17.7	170.8	254	13.9	35.3	7.0	17.7	1000	4450	300	1335	1640	500
72	Riser	0.77	19.6	211.2	314	15.4	39.1	7.7	19.6	1000	4450	300	1335	1421	433
96	Riser	0.92	23.4	308.6	459	18.4	46.7	9.2	23.4	1000	4450	300	1335	972	296
144	Riser	1.00	25.3	309.8	461	19.9	50.6	10.0	25.3	1000	4450	300	1335	968	295

**Physical Characteristics - PLENUM Rated**

2	Plenum	0.15	3.9	8.8	13.1	3.1	7.8	1.5	3.9	225	1001	68	300	1640	500
4	Plenum	0.17	4.4	12.2	18	3.4	8.7	1.7	4.4	300	1335	90	400	1640	500



6	Plenum	0.19	4.8	15.1	22	3.8	9.7	1.9	4.8	300	1335	90	400	1640	500
8	Plenum	0.20	5.1	16.8	25	4.0	10.2	2.0	5.1	300	1335	90	400	1640	500
12	Plenum	0.22	5.7	20.8	31	4.5	11.4	2.2	5.7	300	1335	90	400	1640	500
18	Plenum	0.45	11.4	82.5	123	9.0	22.8	4.5	11.4	600	2670	180	801	1640	500
24	Plenum	0.52	13.1	108.1	161	10.3	26.3	5.2	13.1	600	2670	180	801	1640	500
36	Plenum	0.54	13.7	128.4	191	10.8	27.4	5.4	13.7	800	3560	240	1068	1640	500
48	Plenum	0.59	15.1	137.7	205	11.9	30.2	5.9	15.1	800	3560	240	1068	1640	500
60	Plenum	0.68	17.2	189.7	282	13.6	34.4	6.8	17.2	1000	4450	300	1335	1581	482
72	Plenum	0.75	19.1	237.1	353	15.1	38.2	7.5	19.1	1000	4450	300	1335	1265	386
96	Plenum	0.90	23.0	360.8	537	18.1	45.9	9.0	23.0	1000	4450	300	1335	831	253
144	Plenum	0.95	24.1	330.8	492	19.0	48.2	9.5	24.1	1000	4450	300	1335	907	276

**4.3** Fiber Optic cable must be Systimax (or equal) and meet the following specifications. Termination hardware must be Systimax (or equal) and meet the following specifications.

Vendors will be permitted to utilize hybrid multi-mode / single mode fiber optic cable configurations with the maximum strand count of 48 multi-mode and 24 single mode in any one jacket. All fiber installed must be plenum rated.

Vendor must include a detailed equipment list that at a minimum includes part number, part description, per part pricing and part quantity of all items used to complete this bid.

#### 4.4 Fiber Optic Cable Specifications

4.4.1 Laser Optimized Multimode 50µm 550 Plenum Building Cable- Supports 550 Meter Channel @ 10 Gb/s

4.4.2 The cable shall support current and next-generation LAN, SAN, and WAN applications via laser-optimized 50/125-µm optical fibers.

4.4.3 The cable shall extend the distance of low-cost 850-nm VCSEL-based electronics, supporting 1100 m at 1 Gb/s and 550 m at 10 Gb/s.

4.4.4 The application suite shall include Ethernet from 10 Mb/s to 10 Gb/s, Fiber Channel from 1 Gb/s to 10 Gb/s, and ATM/SONET/SDH from OC-1 to OC-192.

4.4.5 All fibers shall be Differential Mode Delay (DMD) tested using a high-resolution test bench that exceeds the FOTP-220 standards and is independently certified by UL®.

4.4.6 The riser cable shall be constructed with tight buffer fibers, aramid strength yarn, surrounded by a Plenum rated outer jacket.

4.4.7 The cables shall be designed for point-to-point applications as well as mid-span access, and shall provide a high-level of protection for fiber installed in the building environment.

The cables shall meet the following specifications:

##### Physical Specifications:

Fiber Count	Outer Diameter in.(mm)	Weight lbs/ft (kg/km)	Minimum Bend Radius in.(cm)		Max.Tensile Load lbs.(Newtons)		Maximum Vertical Rise Feet (Meters)
			Loaded	Unloaded	Short Term	Long Term	
6	0.19 (4.7)	14 (21)	3.7 (9.5)	1.9 (4.7)	300 (1335)	90 (400)	1640 (500)
12	0.22 (5.7)	21 (31)	4.5 (11.4)	2.2 (5.7)	300 (1335)	90 (400)	1640 (500)
24	0.55 (13.9)	107 (160)	11.0 (27.8)	5.5 (13.9)	600 (2670)	180 (801)	1640 (500)

##### Environmental and Mechanical

	Specification	Test Method
Operating Temperature	-40°to +70°C	FOTP - 3
Installation Temperature	20°to +70°C	N/A
Storage Temperature	-40°to +70°C	N/A
Crush Resistance	44 N/mm	FOTP - 41
Impact Resistance	20 Impacts of 2.94 N.m.	FOTP - 25
Flexing	Exceeds	FOTP - 104
Twist Bend	Exceeds	FOTP - 85

##### Cable Identification:

Buffer Tubes and Fibers are identified with standard color coding:

1 - Blue	5 - Slate	9 - Yellow
2 - Orange	6 - White	10 - Violet
3 - Green	7 - Red	11 - Rose
4 - Brown	8 - Black	12 - Aqua

#### Optical Specifications

	850 nm,max	1300 nm,max
Cabled Attenuation	3.0 dB/km	1.0 dB/km
Bandwidth by OFL	3500 MHz-km	500 MHz-km
Effective Modal Bandwidth	4700 MHz-km*	500 MHz-km
Differential Mode Delay	See Table below	1 0.88 ps/m

\* Effective modal bandwidth for laser transmitters compliant to TIA/EIA-492-AAACA Annex C.1, such as those in IEEE 802.3

10-Gigabit Ethernet (10GBASE-S), INCITS 364 10-Gigabit Fiber Channel (1200-MX-SN-I), and OIF-VSR4-04 10-Gigabit SONET/SDH (OC-192 Serial Shortwave).

**Table 1 Differential Mode Delay Specifications at 850 nm**

DMD Template for <sup>R</sup> INNER = 0 μm to <sup>R</sup> OUTER = 23 μm	DMD Interval Mask for radial intervals: 7 – 13 μm 9 – 15 μm 11 – 17 μm 13 – 19 μm
<b>0.14 ps/m,max.</b>	<b>0.11 ps/m,max.</b>

- 4.4.9 Armored Laser Optimized Multimode 50μm Metallic Sheath Supports 550 meters – 10Gb/s
- 4.4.10 The cable supports current and next-generation LAN, SAN, and WAN applications via laser-optimized 50/125-μm optical fibers.
- 4.4.12 The cable extends the distance of low-cost 850-nm VCSEL-based electronics, supporting 1100 m at 1 Gb/s and 550 m at 10 Gb/s. The application suite includes Ethernet from 10 Mb/s to 10 Gb/s, Fiber Channel from 1 Gb/s to 10 Gb/s, and ATM/SONET/SDH from OC-1 to OC-192.
- 4.4.13 The fibers shall be Differential Mode Delay (DMD) tested using a high-resolution test bench that exceeds the FOTP-220 standards and is independently certified by UL®.
- 4.4.14 The Loose Tube Metallic cable shall be armored with a corrugated polymer coated steel tape, and constructed with industry standard 3mm buffer tubes, stranded around a central strength member.
- 4.4.15 The armor layer shall provide added crush protection and shall meet the Telcordia requirements for Superior Armored cable.
- 4.4.16 The buffer tubes shall be compatible with standard hardware, cable routing and fan-out kits.
- 4.4.17 The cable core shall be water blocked with dry water-blocking materials, making access and handling of individual tubes easier and craft-friendly.
- 4.4.18 The cable shall be designed for point-to-point applications as well as mid-span access, and provide a high-level of protection for fiber installed in the outside plant environment.
- 4.4.19 The cable shall meet the following specifications:

Fiber Physical Specifications	
Core Diameter	50 (±2.5)μm
Core Non-Circularity	≤5%
Cladding Diameter	125(±1)μm
Core/Cladding Concentricity Error	≤1.5μm
Cladding Non-Circularity	≤1.0%
Coated Fiber Diameter (uncolored)	245(±10)μm
Coating/Cladding Concentricity Error	≤6μm
Colored Fiber Diameter	245(±7)μm
Proof Test Levels	0.7 GPa minimum
Dynamic Fatigue Parameter	>=18
Macrobending (100 turns on a 75 mm mandrel)	≤0.5dB @ 850 nm and 1300 nm
Operating Temperature	- 60 to 85°C

Fiber Optical Specifications	
Numerical Aperture	0.200 ± 0.015
Effective Group Index of Refraction @ 850 nm	1.482
Effective Group Index of Refraction @ 1300 nm	1.478
Point Discontinuities @ 850 nm or 1300 nm	≤ 0.1 dB
Minimum Bandwidth	Overfilled: 3500 MHz-km @ 850 nm
	Overfilled: 500 MHz-km @ 1300 nm
	Laser: 4700 MHz-km @ 850 nm Laser: 500 MHz-km @ 1300 nm
Zero Dispersion Wavelength	minimum 1297 nm maximum 1316 nm
Zero Dispersion Slope	≤ 0.101 ps/(nm <sup>2</sup> km)

Physical Specifications:

Fiber Count	Subunits	Outer Diameter in. (mm)	Weight lbs/kft kg/km	Minimum Bend Radius		Max. Tensile Load lbs. (Newtons)		Max. Vertical Rise Feet (Meters)
				Loaded	Unloaded	Short Term	Long Term	
4 - 48	5	0.46 (11.7)	63 (94)	9.2 (23.4)	4.6 (11.7)	607 (2700)	180 (800)	2856 (871)
72	6	0.50 (12.7)	72 (107)	10.0 (25.4)	5.0 (12.7)	607 (2700)	180 (800)	2509 (765)
96	8	0.58 (14.7)	95 (141)	11.5 (29.4)	5.8 (14.7)	607 (2700)	180 (800)	1904 (580)
144	12	0.74 (18.9)	146 (217)	14.8 (37.8)	7.4 (18.9)	607 (2700)	180 (800)	1237 (377)
288	24	0.86 (21.9)	211 (315)	17.2 (43.8)	8.6 (21.9)	607 (2700)	180 (800)	852 (260)

Environmental and Mechanical:

	Specification	Test Method
Operating Temperature	-40° to +70°C	FOTP - 3
Installation Temperature	-20° to +70°C	N/A
Storage Temperature	-40° to +70°C	N/A
Crush Resistance	44 N/mm	FOTP - 41
Impact Resistance	Exceeds	FOTP - 25
Flexing	Exceeds	FOTP - 104
Twist Bend	Exceeds	FOTP - 85

Cable Identification:

Buffer Tubes and Fibers are identified with standard color coding:

1 - Blue	5 - Slate	9 - Yellow
2 - Orange	6 - White	10 - Violet
3 - Green	7 - Red	11 - Rose
4 - Brown	8 - Black	12 - Aqua

Buffer tubes 13 through 24 repeat the color sequence with tracer stripe; e.g. fiber 13 is blue with tracer strip

Optical Specifications

	850 nm,max	1300 nm,max
Cabled Attenuation	3.0 dB/km	1.0 dB/km
Bandwidth by OFL	3500 MHz-km	500 MHz-km
Effective Modal Bandwidth	4700 MHz-km*	500 MHz-km
Differential Mode Delay	See Table 1 below	0.88 ps/m

\* Effective modal bandwidth for laser transmitters compliant to TIA/EIA-492-AAAC-A Annex C.1, such as those in IEEE 802.3 10-Gigabit Ethernet (10GBASE-S), INCITS 364 10-Gigabit Fiber Channel (1200-MX-SN-I), and OIF-VSR4-04 10-Gigabit SONET/SDH (OC-192 Serial Shortwave).

Table 1 - Differential Mode Delay Specifications at 850 nm

DMD Template for R <sub>i</sub> inner = 0 μm to R <sub>o</sub> outer = 23 μm	DMD Interval Mask for radial intervals: 7 - 13 μm 9 - 15 μm 11 - 17 μm 13 - 19 μm
0.14 ps/m,max.	0.11 ps/m,max.

## 4.5 COPPER MULTI PAIR CABLE SPECIFICATIONS

### 4.5.1 DESCRIPTION

UNSHIELDED TWISTED PAIR (UTP) CATEGORY 3 CABLE FOR USE IN BACKBONE CABLING SYSTEMS AS DESCRIBED IN TIA/EIA 568-B. THE CABLE CONSISTS OF #24 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO TWISTED PAIRS, WITH A RIPCORD, UNDER AN OVERALL JACKET. SUPPORTED APPLICATIONS ANALOG & DIGITAL VOICE, ISDN

### 4.5.2 CONSTRUCTION

- a) **PRIMARIES:**  
CONDUCTOR: 24 AWG (.5 mm) SOLID BARE COPPER
- b) **PAIR ASSEMBLY:**  
2 PRIMARIES TWISTED IN VARIED LAYS
- c) **COLOR CODE:** SEE TABLE 1
- d) **CABLE ASSEMBLY:**  
25 PAIRS CABLED TOGETHER. >25 PAIRS — GROUPS OF 25 PAIRS
- e) **BARRIER:**  
OVERAL POLYESTER TAPE

### 4.5.4 PHYSICAL CHARACTERISTICS

OPERATING TEMP: -4°F to +140°F  
INSTALLATION TEMP: +32°F to +100°F

### 4.5.5 ELECTRICAL CHARACTERISTICS

- a) **STANDARDS:** TIA/EIA 568-B.2 CAT 3 BACKBONE CABLE

## 4.6 Intelligent Patch Panel and Hardware

### 4.6.1 DESCRIPTION

The intelligent patch panel manager ties the intelligent patch panels to the infrastructure operations software called a system manager. Each rack with intelligent patch panels is equipped with a control system, an intelligent patch panel manager, which monitors the status of every port in every intelligent patch panel. Connectivity updates are sent to the infrastructure operations software, which contains a continuously updated database of connectivity information.

### 4.6.2 Classroom Based Training

If a hands-on software / hardware course is available on the intelligent patch system the vendor shall provide this training tuition free. The course should train users to load and configure the intelligent patch system manager software and understand how to customize and use it on site. If there are any pre-requisites to this course they shall also be available tuition free. Training shall be provided for four students designated by the DOT.

## 4.7 SYSTIMAX 1071 CAT 6 Gigaspeed Non Plenum Cable Specifications

### 4.6.1 DESCRIPTION

1071 GigaSPEED cable is an enhanced four-pair design that improves signal integrity and strength while reducing cable emissions. GigaSPEED cable supports 1.2 Gbps ATM for simultaneous voice, data and video as well as the full 77 channels of analog broadband video. This cable supports 550 MHz broadband video. 20 year warranty available.



Part Number	1071E BK 4/23 W1000		Operating Frequency, max	300 MHz
Material ID	700212129		Operating Voltage, max	80 V
Category	Cables		Dielectric Strength, minimum	1500 Vac   2500 Vdc
Description	GigaSPEED® XL 1071E ETL Verified Category 6 U/UTP Cable, non-plenum, black jacket, 4 pair		Environmental Space	Non-plenum
Regulatory Compliance/Certifications	Agency	Classification	Flame Test Method	CMG   CMR
	RoHS 2002/95/EC	Compliant	Ordering Note	Not available in Europe, the Middle East, or Africa
	ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system	Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Conductor Material	Bare copper		Brand	GigaSPEED® XL   SYSTIMAX®
Insulation Material	Polyolefin		Cable Component Type	Horizontal
Jacket Material	PVC		Cable Type	U/UTP (unshielded)
Separator Material	Polyolefin		Pairs, quantity	4
Cable Length	305 m   1000 ft		Jacket Color	Black
Cable Weight	25.60 lb/kft		Conductor Gauge, singles	23 AWG
Diameter Over Jacket	5.893 mm   0.232 in		Conductor Type, singles	Solid
Jacket Thickness	0.559 mm   0.022 in		Conductors, quantity	8
ANSI/TIA Category	6		Installation Temperature	0 °C to +60 °C (+32 °F to +140 °F)
dc Resistance Unbalance, maximum	5%		Separator Type	Bisector
dc Resistance, maximum	7.61 ohms/100 m		Packaging Type	WE TOTE® box
Mutual Capacitance	5.6 nF/100 m @ 1 kHz		Product Number	1071E
Nominal Velocity of Propagation (NVP)	69%		Pulling Tension, maximum	11 kg   25 lb
Transmission Standards	ANSI/TIA-568-C.2   CENELEC EN 50288-6-1   ISO/IEC 11801 Class E			

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## 5.0 GROUNDING

Cable tray grounding must conform to the *National Electrical Code®* 2005 – article 392.7 Grounding. Grounding must conform to ANSI/TIA/EIA 607(A) – *Commercial Building Grounding and Bonding Requirements for Telecommunications*, *National Electrical Code®*, ANSI/NECA/BICSI-568 and manufacturer's grounding requirements at a minimum.

Vendor must bond to the TMGB (Telecommunications Main Grounding Busbar) in room MB 66. The TMGB will be installed in the center of the northern wall a minimum of eight (8) feet above the floor. Vendor will be required to bond and ground equipment racks, housings, messenger cables, and raceways to the TGB ground system via #6 AWG green insulated copper grounding conductor.

Vendor must bond to the TGB (Telecommunications Grounding Busbar) in room all equipment rooms served by the solid trough cable tray. The TGB will be installed in the center of the wall designated by WVOT at a minimum of eight (8) feet above the floor. Vendor will be required to bond and ground equipment racks, housings, messenger cables, and raceways to the TGB ground system via #6 AWG green insulated copper grounding conductor.

## 6.0 LABELING

Labeling shall conform to ANSI/TIA/EIA-606(A) standards and in addition, provide the following:

- 6.1 Labels shall be machine-printed. Hand-lettered labels shall not be acceptable.
- 6.2 Labels shall be affixed to the infrastructure cable at a minimum of every twenty (20) feet.
- 6.3 Labels shall be at least one (1) inch high black lettering on a white background.

## 7.0 AS – BUILT DRAWINGS

Three (3) sets of as-built drawing shall be delivered to the State of West Virginia within four (4) weeks of acceptance of project by the State of West Virginia. A set of as-built drawings shall be provided to the State of West Virginia in electronic media form and utilizing CAD software that is acceptable to the State of West Virginia. Within six (6) weeks of acceptance of the project the electronic media must be delivered to the State of West Virginia.

## 8.0 FIRESTOPPING MATERIALS

All firestopping will be accomplished using EZ-PATH Fire Rated Pathway units or equal.

### 8.1 Quality Assurance

- 1) Fire rated wiring devices shall bear the UL Classification marking.
- 2) Device shall be tested in accordance with ASTM E 814 (ANSI/UL1479).

### 8.2 Product

#### A. Wiring devices:

1. Cables passing through fire-rated floors or walls shall pass through fire-rated wiring devices which contain an intumescent insert material that adjusts automatically to cable additions or subtractions.
2. The device (per code requirements) shall include both internal and external firestopping.
3. Cables penetrating through fire-rated floors or walls shall utilize fire-rated pathway devices capable of providing an F rating equal to the rating of the barrier in which the device is installed.
4. The device shall be tested for smoke leakage (L rating) and shall not require the use of any optional sealing materials to achieve the published rating.
5. The device shall utilize a fire and smoke sealing system that automatically adjusts to the addition or removal of cables.
6. Wiring devices shall be capable of allowing a 0 to 100-percent visual fill of cables.
7. Wire devices shall be of a sufficient size to accommodate the quantity and size of electrical wires and data cables required and shall be suitable for use with new or existing cable installations.
8. The installed device (in normal use) shall require no maintenance and shall accommodate future cable changes without mechanical adjustment and/or removal or replacement of protective materials.
9. Wire devices to be provided with steel wall plates allowing for single or multiple devices to be ganged together.
10. The device shall be modular and shall provide mechanical installation options for common wall and floor constructions as well as common construction conditions including over-sized or damaged openings or existing sleeves.

#### B. Acceptable Manufacturer or Equal:

1. Specified Technologies Inc.
  - a) EZ-PATH Fire Rated Pathway

#### C. Installation

- A. Wiring devices shall be installed in locations where required.
- B. Install the devices in strict accordance with the approved shop drawings and the equipment manufacturer's recommendations.
- C. Apply the factory supplied gasket material prior to the installation of the wall plates.
- D. Secure wall plates to devices per the equipment manufacturer's recommendations.

## 9.0 FIRESTOPPING

### 9.1 General

- 9.1.1 New and existing raceways, cable trays, and cables for power, data, and communications systems penetrating non-rated and fire-rated floors, walls, and other partitions of building construction shall be firestopped where they penetrate new or existing building construction.
- 9.1.2 Firestopping shall be accomplished by using a combination of materials and devices, including penetrating raceway, cable tray, or cables, required to make up complete firestop.

9.1.3 Verify that cabling and other penetrating elements and supporting devices have been completely installed and temporary lines and cables have been removed.

**9.2 If required by inspecting authorities:**

9.2.1 Expose and remove firestopping to the extent directed by inspecting authority to permit his or her inspection.

9.2.2 Reinstall new firestopping and restore where removed for inspection.

**10. SLEEVES**

**10.1 Provide sleeves for new conduit and cable penetrations of building construction.**

**11.0 PENETRATIONS OF BUILDING SURFACES**

**11.1 Fire-resistant Areas**

11.1.1 Provide through-penetration firestop systems for penetrations through fire-rated walls, floors, and other partitions of building construction as specified in Article, FIRESTOPPING in this Section.

11.1.2 In walls or partitions with 2-hour or less fire ratings, provide only metallic outlet or device boxes installed per UL Fire Resistance Directory, NEC, and other national building code requirements.

**12.0 FIRESTOP REFERENCES**

- The vendor must adhere to the following guidelines:
- ASTM E814, Standard Method of Fire Tests of Through-Penetration Firestops.
- UL 1479, Fire Tests of Through-Penetration Firestops.
- UL Fire Resistance Directory: Through Penetration Firestop Devices (XHCR) and Through Penetration Firestop Systems (XNEZ).
- ASTM E 119, Fire Tests of Building Construction and Materials (for fire-rated architectural barriers).
- 2002 NFPA National Electrical Code, Section 800-52, Paragraph 2(B), *Spread of Fire and Products of Combustion*.
- ANSI/NECA/BICSI-568, Standard for Installing Commercial Building Telecommunications Cabling, Section 5, Clause 5.1 through 5.2.3, *Firestopping*
- 2000 edition of the BICSI Telecommunications Distribution Methods Manual, Chapter 15, *Firestopping*.
- Factory Mutual Approval Guide.
- ULC List of Equipment and Materials, VOL. II.
- Installed firestopping systems shall meet approval of authorities having jurisdiction.

**13.0 CUTTING AND PATCHING**

13.1 Provide openings, cutting, coring, and patching of openings in existing building construction as required. Patching includes openings and voids left in existing construction as a result of demolition.

13.2 The work shall include necessary assemblies and materials to maintain required fire ratings.

13.3 Perform cutting as to not impair structural stability of building construction and systems.

13.4 The Work shall be done by crafts persons skilled in the particular trades affected.

13.5 Patching materials shall match existing materials in type and quality. Patching shall be done to match appearance of adjacent surfaces.

13.6 The successful vendor is only responsible for openings in walls that the vendor makes.

**14.0 CLEANING**

14.1 Cleaning shall be performed to the satisfaction of the State of West Virginia's Representative. Unless otherwise indicated, clean shall mean free of dust, dirt, mud, debris, oil, grease, residues, and contamination. Acceptability shall be determined by sight, touch, and wiping with a clean soft cloth and suitable cleaning agent.

**15.0** The State will provide space for staging of materials on site, but will not be responsible for staged materials.

**16.0** The State has included in this document additional information for the rooms. All installed copper pairs and fiber strands must be terminated and tested to manufactures specifications. **All fiber installed must be plenum rated.**

## Infrastructure Structured Cabling Requirements

### EQUIPMENT DIVISION HEADQUARTERS TELECOMMUNICATIONS EQUIPMENT ROOMS

#### EQD-TER-1AB    ADMINISTRATION BLDG TELECOMMUNICATIONS EQUIPMENT ROOM

MEDIA	AMOUNT	DESTINATION
Copper Cat 6	25 CABLE RUNS	Work Areas
Fiber Multi-Mode	12 Strand	EQD-TER-3SS

#### EQD -TER-3SS    SOUTH SHOP BLDG TELECOMMUNICATIONS EQUIPMENT ROOM

MEDIA	AMOUNT	DESTINATION
Copper Cat 6	45 CABLE RUNS	Work Areas
Fiber Multi-Mode	12 Strand	EQD -TER-1AB
Fiber Multi-Mode	12 Strand	EQD -TER-9TB
Fiber Multi-Mode	12 Strand	EQD -TER-4NS

#### EQD-TER-9TB    TRAINING BLDG TELECOMMUNICATIONS EQUIPMENT ROOM

MEDIA	AMOUNT	DESTINATION
Copper Cat 6	26 CABLE RUNS	Work Areas
Fiber Multi-Mode	12 Strand	EQD-TER-3SS
Fiber Multi-Mode	12 Strand	EQD-TER-D7S

#### EQD -TER-D7S    DISTRICT 7 SHOP TELECOMMUNICATIONS EQUIPMENT ROOM

MEDIA	AMOUNT	DESTINATION
Copper Cat 6	10 CABLE RUNS	Work Areas
Fiber Multi-Mode	12 Strand	EQD -TER-9TB

#### EQD-TER-4NS    NORTH SHOP BLDG TELECOMMUNICATIONS EQUIPMENT ROOM

MEDIA	AMOUNT	DESTINATION
Copper Cat 6	25 CABLE RUNS	Work Areas
Fiber Multi-Mode	12 Strand	EQD -TER-3SS
Fiber Multi-Mode	12 Strand	EQD -TER-8RR

#### EQD-TER-8RR    RADIO ROOM TELECOMMUNICATIONS EQUIPMENT ROOM

MEDIA	AMOUNT	DESTINATION
Copper Cat 6	21 CABLE RUNS	Work Areas
Fiber Multi-Mode	12 Strand	EQD-TER-4NS



## Terminating Unit Requirements

These units with associated hardware will be used for infrastructure terminations

### EQD-TER-1AB    ADMINISTRATION BLDG TELECOMMUNICATIONS EQUIPMENT ROOM

#### Copper Termination

SYSTIMAX 360™ iPatch® PATCHMAX® Panels

- One    iPatch 1100GS6 Evolve U/UTP Patch Panel, 24 port  
760152363
- One    iPatch 1100GS6 Evolve U/UTP Patch Panel, 48 port  
760152348

#### Fiber Termination

SYSTIMAX 600G2 System

- One    360 iPatch® G2 LC Fiber Shelf, sliding  
760105171
- One    RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf  
760039867
- One    360G2-12LC-LS-AQ 360G2 Module\_12LC LazrSPEED 550 Pigtails  
760109470

### EQD -TER-3SS    SOUTH SHOP BLDG TELECOMMUNICATIONS EQUIPMENT ROOM

#### Copper Termination

SYSTIMAX 360™ iPatch® PATCHMAX® Panels

- Two    iPatch 1100GS6 Evolve U/UTP Patch Panel, 48 port  
760152348

#### Fiber Termination

SYSTIMAX 600G2 System

- One    360 iPatch® G2 LC Fiber Shelf, sliding  
760105171
- One    RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf  
760039867
- Three    360G2-12LC-LS-AQ 360G2 Module\_12LC LazrSPEED 550 Pigtails  
760109470

### EQD-TER-9TB    TRAINING BLDG TELECOMMUNICATIONS EQUIPMENT ROOM

#### Copper Termination

SYSTIMAX 360™ iPatch® PATCHMAX® Panels

- Two    iPatch 1100GS6 Evolve U/UTP Patch Panel, 48 port  
760152348

#### Fiber Termination

SYSTIMAX 600G2 System

- One    360 iPatch® G2 LC Fiber Shelf, sliding  
760105171
- One    RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf  
760039867
- Two    360G2-12LC-LS-AQ 360G2 Module\_12LC LazrSPEED 550 Pigtails  
760109470

**EQD-TER-D7S** **DISTRICT 7 SHOP TELECOMMUNICATIONS EQUIPMENT ROOM****Copper Termination**

## SYSTIMAX 360™ iPatch® PATCHMAX® Panels

- One iPatch 1100GS6 Evolve U/UTP Patch Panel, 48 port  
760152348

**Fiber Termination**

## SYSTIMAX 600G2 System

- One 360 iPatch® G2 LC Fiber Shelf, sliding  
760105171
- One RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf  
760039867
- One 360G2-12LC-LS-AQ 360G2 Module\_12LC LazrSPEED 550 Pigtailes  
760109470

**EQD-TER-4NS** **NORTH SHOP BLDG TELECOMMUNICATIONS EQUIPMENT ROOM****Copper Termination**

## SYSTIMAX 360™ iPatch® PATCHMAX® Panels

- One iPatch 1100GS6 Evolve U/UTP Patch Panel, 24 port  
760152363
- One iPatch 1100GS6 Evolve U/UTP Patch Panel, 48 port  
760152348

**Fiber Termination**

## SYSTIMAX 600G2 System

- One 360 iPatch® G2 LC Fiber Shelf, sliding  
760105171
- One RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf  
760039867
- Two 360G2-12LC-LS-AQ 360G2 Module\_12LC LazrSPEED 550 Pigtailes  
760109470

**EQD-TER-8RR** **RADIO ROOM TELECOMMUNICATIONS EQUIPMENT ROOM****Copper Termination**

## SYSTIMAX 360™ iPatch® PATCHMAX® Panels

- One iPatch 1100GS6 Evolve U/UTP Patch Panel, 24 port  
760152363

**Fiber Termination**

## SYSTIMAX 600G2 System

- One 360 iPatch® G2 LC Fiber Shelf, sliding  
760105171
- One RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf  
760039867
- One 360G2-12LC-LS-AQ 360G2 Module\_12LC LazrSPEED 550 Pigtailes  
760109470

**MATERIALS DIVISION**  
**TELECOMMUNICATIONS EQUIPMENT ROOMS**

**MAT-TER-B1-A****ADMINISTRATION BLDG. 1 TELECOM EQUIP RM A**

<b>MEDIA</b>	<b>AMOUNT</b>	<b>DESTINATION</b>
Copper Cat 6	225 CABLE RUNS	Work Areas
Fiber Multi-Mode	12 Strand	MAT-TER-B1-B
Fiber Multi-Mode	12 Strand	MAT-TER-B1-C

**MAT-TER-B1-B****ADMINISTRATION BLDG. 1 TELECOM EQUIP RM B**

<b>MEDIA</b>	<b>AMOUNT</b>	<b>DESTINATION</b>
Copper Cat 6	50 CABLE RUNS	Work Areas
Fiber Multi-Mode	12 Strand	MAT-TER-B1-A
Fiber Multi-Mode	12 Strand	MAT-TER-B2-A

**MAT-TER-B2-A****BLDG. 2 TELECOM EQUIP RM A**

<b>MEDIA</b>	<b>AMOUNT</b>	<b>DESTINATION</b>
Copper Cat 6	10 CABLE RUNS	Work Areas
Fiber Multi-Mode	12 Strand	MAT-TER-B1-B
Fiber Multi-Mode	12 Strand	MAT-TER-B3-A

**MAT-TER-B3-A****BLDG. 3 TELECOM EQUIP RM A**

<b>MEDIA</b>	<b>AMOUNT</b>	<b>DESTINATION</b>
Copper Cat 6	66 CABLE RUNS	Work Areas
Fiber Multi-Mode	12 Strand	MAT-TER-B1-A
Fiber Multi-Mode	12 Strand	MAT-TER-B2-A

## Terminating Unit Requirements

These units with associated hardware will be used for infrastructure terminations

### MAT-TER-B1-A ADMINISTRATION BLDG. 1 TELECOM EQUIP RM A

#### Copper Termination

SYSTIMAX 360™ iPatch® PATCHMAX® Panels

Five iPatch 1100GS6 Evolve U/UTP Patch Panel, 48 port  
760152348

#### Fiber Termination

SYSTIMAX 600G2 System

One 360 iPatch® G2 LC Fiber Shelf, sliding  
760105171

One RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf  
760039867

Two 360G2-12LC-LS-AQ 360G2 Module\_12LC LazrSPEED 550 Pigtails  
760109470

### MAT-TER-B1-B ADMINISTRATION BLDG. 1 TELECOM EQUIP RM B

#### Copper Termination

SYSTIMAX 360™ iPatch® PATCHMAX® Panels

One iPatch 1100GS6 Evolve U/UTP Patch Panel, 24 port  
760152363

Two iPatch 1100GS6 Evolve U/UTP Patch Panel, 48 port  
760152348

#### Fiber Termination

SYSTIMAX 600G2 System

One 360 iPatch® G2 LC Fiber Shelf, sliding  
760105171

One RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf  
760039867

Two 360G2-12LC-LS-AQ 360G2 Module\_12LC LazrSPEED 550 Pigtails  
760109470

### MAT-TER-B2-A BLDG. 2 TELECOM EQUIP RM A

#### Copper Termination

SYSTIMAX 360™ iPatch® PATCHMAX® Panels

One iPatch 1100GS6 Evolve U/UTP Patch Panel, 24 port  
760152363

#### Fiber Termination

SYSTIMAX 600G2 System

One 360 iPatch® G2 LC Fiber Shelf, sliding  
760105171

One RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf  
760039867

Two 360G2-12LC-LS-AQ 360G2 Module\_12LC LazrSPEED 550 Pigtails



760109470

**MAT-TER-B3-A BLDG. 3 TELECOM EQUIP RM A****Copper Termination****SYSTIMAX 360™ iPatch® PATCHMAX® Panels**

- One iPatch 1100GS6 Evolve U/UTP Patch Panel, 24 port  
760152363
- One iPatch 1100GS6 Evolve U/UTP Patch Panel, 48 port  
760152348

**Fiber Termination****SYSTIMAX 600G2 System**

- One 360 iPatch® G2 LC Fiber Shelf, sliding  
760105171
- One RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf  
760039867
- Two 360G2-12LC-LS-AQ 360G2 Module\_12LC LazrSPEED 550 Pigtails  
760109470

Agency \_\_\_\_\_  
REQ.P.O# \_\_\_\_\_

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, \_\_\_\_\_  
\_\_\_\_\_ of \_\_\_\_\_, \_\_\_\_\_, as Principal, and \_\_\_\_\_  
\_\_\_\_\_ of \_\_\_\_\_, \_\_\_\_\_, a corporation organized and existing under the laws of the State of \_\_\_\_\_  
\_\_\_\_\_ with its principal office in the City of \_\_\_\_\_, as Surety, are held and firmly bound unto the State  
of West Virginia, as Obligee, in the penal sum of \_\_\_\_\_ (\$ \_\_\_\_\_) for the payment of which,  
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the  
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOW THEREFORE,

- (a) If said bid shall be rejected, or
- (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached  
hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the  
agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full  
force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event,  
exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no  
way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby  
waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations  
have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this  
\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Principal Corporate Seal

\_\_\_\_\_  
(Name of Principal)

By \_\_\_\_\_  
(Must be President or  
Vice President)

\_\_\_\_\_  
(Title)

Surety Corporate Seal

\_\_\_\_\_  
(Name of Surety)

\_\_\_\_\_  
Attorney-in-Fact

**IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals  
must be affixed, a power of attorney must be attached.**

**BID BOND PREPARATION INSTRUCTIONS**

AGENCY \_\_\_\_\_ (A)  
RFQ/RFP# \_\_\_\_\_ (B)

**Bid Bond**

- (A) WV State Agency  
(Stated on Page 1 "Spending Unit")  
Request for Quotation Number (upper right corner of page #1)
  - (C) Your Company Name
  - (D) City, Location of your Company
  - (E) State, Location of your Company
  - (F) Surety Corporate Name
  - (G) City, Location of Surety
  - (H) State, Location of Surety
  - (I) State of Surety Incorporation
  - (J) City of Surety Incorporation
  - (K) Minimum amount of acceptable bid bond is 5% of total bid. You may state "5% of bid" or a specific amount on this line in words.
  - (L) Amount of bond in figures
  - (M) Brief Description of scope of work
  - (N) Day of the month
  - (O) Month
  - (P) Year
  - (Q) Name of Corporation
  - (R) Raised Corporate Seal of Principal
  - (S) Signature of President or Vice President
  - (T) Title of person signing
  - (U) Raised Corporate Seal of Surety
  - (V) Corporate Name of Surety
  - (W) Signature of Attorney in Fact of the Surety
- NOTE: Dated, Power of Attorney with Raised Surety Seal must accompany this bid bond.

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, \_\_\_\_\_ (C) of \_\_\_\_\_ (D), \_\_\_\_\_ (E), as Principal, and \_\_\_\_\_ (F) of \_\_\_\_\_ (G), \_\_\_\_\_ (H), a corporation organized and existing under the laws of the State of \_\_\_\_\_ (I) with its principal office in the City of \_\_\_\_\_ (J), as Surety, are held and firmly bound unto The State of West Virginia, as Obligee, in the penal sum of \_\_\_\_\_ (K) (\$ \_\_\_\_\_ (L)) for the payment of which, well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the Department of Administration a certain bid or proposal, attached hereto and made a part hereof to enter into a contract in writing for \_\_\_\_\_ (M)

**NOW THEREFORE.**

(a) If said bid shall be rejected, or  
(b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the agreement created by the acceptance of said bid then this obligation shall be null and void, otherwise this obligation shall remain in full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated

The Surety for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of time within which the Obligee may accept such bid: and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be affixed hereto and these presents to be signed by their proper officers, this \_\_\_\_\_ (N) day of \_\_\_\_\_ (O), 20 \_\_\_\_\_ (P).

Principal Corporate Seal

(R)

\_\_\_\_\_  
(Name of Principal)  
By \_\_\_\_\_  
(Must be President or Vice President)  
\_\_\_\_\_  
Title

Surety Corporate Seal

(U)

\_\_\_\_\_  
(Name of Surety)  
\_\_\_\_\_  
Attorney-in-Fact

**IMPORTANT** – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised Corporate Seals must be affixed and a Power of Attorney must be attached.



State of West Virginia
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT
West Virginia Code §21-1D-5

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_, TO-WIT:

I, \_\_\_\_\_, after being first duly sworn, depose and state as follows:

- 1. I am an employee of \_\_\_\_\_; and,
(Company Name)
2. I do hereby attest that \_\_\_\_\_
(Company Name)

maintains a valid written drug free workplace policy and that such policy is in compliance with West Virginia Code §21-1D-5.

The above statements are sworn to under the penalty of perjury.

\_\_\_\_\_  
(Company Name)

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Taken, subscribed and sworn to before me this \_\_\_\_ day of \_\_\_\_\_.

By Commission expires \_\_\_\_\_

(Seal)

\_\_\_\_\_  
(Notary Public)

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.



**ISCM0053**

RFQ No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**West Virginia Code §5A-3-10a states:** No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_

State of \_\_\_\_\_

County of \_\_\_\_\_, to-wit:

Taken, subscribed, and sworn to before me this \_\_\_ day of \_\_\_\_\_, 20\_\_.

My Commission expires \_\_\_\_\_, 20\_\_.

**AFFIX SEAL HERE**

**NOTARY PUBLIC** \_\_\_\_\_