



ADDENDUM # 2

January 11, 2017

TO: BIDDERS UNDER INVITATION TO BID NO. 16-100800 -
INSTALLATION OF DATA, VOICE AND MULTI-MEDIA CABLING

FROM: Department of Purchasing and Contracting, DeKalb County, Georgia
For additional information, go to: <http://yourdekalb.com/purchasing/index.html>.

ITB No.: 16-100800 "INSTALLATION OF DATA, VOICE AND MULTI-MEDIA CABLING" is hereby modified as follows.

1. The following modifications are made to the bid:
 - a. "Item 148. on page 34", the item is deleted in its' entirety.
 - b. "Note 8: on page 36", the note is deleted in its' entirety.
 - c. "Item 11) on page 37", the paragraph is deleted in its entirety and replaced as follows:
 - i. Materials used must be consistent with materials already present within that building. Current copper wiring material used is Leviton or equivalent. All terminations of Category 6 must be consistent with patch panel/jack type and color. (E.g., 568B to 568B, white or bone). Current fiber patch panels with growth available are 3M. Future fiber wiring materials are non-vendor specific.
2. Attachment A is the REVISED Minimum Specifications Price Schedule to be used for your bid submission. Awarded Vendor will conduct a site survey for deviations of bid price.
3. The following questions were received. Answers provided in *italic*.

Question - The dates were changed from the originally released document and uploaded as a new document. Is this considered an addendum for acknowledgment purposes? If so, please release a formal addendum. (page 3, Paragraph B.1.)

A. *No. The document was revised as a result of an administrative error. The change was to the Pre-Bid Conference date, which was held 01/05/17.*

Question - For "No. Runs" it looks like you are requesting pricing for 8 cables. Are you wanting a price for 1 or 8 cables? (page 18, Items 1-2)

A. *Items 1 and 2 should be pricing for one cable each.*

Question - What is the requirement for this line item as it is lacking details? (Page 18, Item 5)

A. *Line Item 5 is deleted in its' entirety.*

Question - Is there a requirement for innerduct to be installed for these fibers cables or are you requiring armored cable? (pages 18-23, Items 6-47)

A. *It may be Interduct or Armor. The site survey will determine the requirement. Another line is added for interduct.*

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Question - For the new fiber patch panels are we to assume only one patch panel is required or two (1 for each end)? (pages 18-23, Items 6-53)

A. The Fiber Patch panels are required for each specific location. So there is a need for both ends to terminate to the fiber patch panels. If the feed into the location is from the source vendor, then that location will require only one fiber patch.

Question - Are we to include the fiber connectors or will the unit prices for connectors be used? (page 18-24, Items 6-53)

A. The Fiber connectors are part of the fiber connection/termination and should be part of the quote.

Question - For the existing fiber patch panels are we to assume it has open ports or will we need to add fiber connector panels? (pages 18-23, Items 6-47)

A. It depends on the Site survey on whether or not you will need to add fiber connector panels since each location will vary. Some locations will have open ports and others will need to be added. A site survey is recommended for each site to get accurate quotes and materials needed.

Question - What manufacture of 50um multimode fiber are you requesting? (pages 18-23, Items 6-27)

A. We are requesting any Leviton or Equivalent. A site survey is recommended for each site to get accurate quotes and materials needed.

Question - What type of 50um multimode fiber are you requesting; OM2, OM3, or OM4? (pages 18-21, Items 6-27)

A. OM4 is preferred. However, a site survey is recommended for each site to get accurate quotes and materials needed.

Question - Items 7 and 8 are duplicates. (page 18, Items 7 and 8)

A. Revise line 8 to read "LC – SC". Also, delete line 9 in its entirety.

Question - Which Leviton wall mount fiber patch panel part number are you requesting? (pages 18-19, Items 10-12)

A. We are requesting Leviton or equivalent. Since it will vary per manufacturer you may list your suggested part # in your bid. A site survey is recommended for each site to get accurate quotes and materials needed.

Question - Which Leviton rack mount fiber patch panel part numbers are you requesting? (pages 19-24, Items 16-53)

A. We are requesting Leviton or equivalent. Since it will vary per manufacturer you may list your suggested part # in your bid. A site survey is recommended for each site to get accurate quotes and materials needed.

Question - What do you mean when you reference "Exterior Armor-Clad" fiber? (pages 20-24)

A. All external fiber needs Outdoor rated Armor CST and OSP are recommended.

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Question - For the exterior armor-clad fiber, is provisions for grounding the cable to be included in the price? (pages 20, 21, 24)

A. Yes, grounding the metallic sheath is required and should be part of the quote.

Question - You reference a 19" wall mount patch panel. Is this incorrect and you want a standard wall mount or do you want a 19" rack mount panel to be wall mounted? (page 20, Items 22-24)

A. There are some sites currently that have 19" racks. So these racks will be per site requirements. A site survey is recommended for each site to get accurate quotes and materials needed.

Question - You list the singlemode fiber as being 4 micron. Should this not be 9 micron instead? (pages 21-23, Items 28-47)

A. Yes, the singlemode fiber should be changed to 9 micron.

Question - You are requesting a new patch panel but list both 19" and 23". Which size do you need as there is a cost difference between the two? (page 24 – Items 51-53)

A. Some sites currently have 19" racks so these will be per site requirements. A site survey is recommended for each site to get accurate quotes and materials needed.

Question - You list 62.5 micron singlemode. Do you need 62.5 micron MULTIMODE or is this supposed to be 9 micron singlemode? (page 24, Items 48-53; 79-80)

A. Yes, it should be 9 Micron for single Mode.

Question - What depth are you requiring on the wall mount racks and rack enclosures? (page 25 – Items 54-57; 62-63)

A. The depth for wall mount racks and rack enclosures depends on the site location space requirements. A site survey is recommended for each site to get accurate quotes and materials needed.

Question - Are we to secure the floor mount racks to the wall with a 3' section of 12" ladder rack? (page 25 – Items 58-61)

A. Each site may have different requirements. This is why we recommend a site survey for each site for you to get accurate quotes and materials needed.

Question - This looks to be a duplicate of Item 1 base charge. If it is not a duplicate, what is the difference and what is to be included? (page 26 – Item 64)

A. Yes. This is a duplicate. Line Item 64 is deleted in its entirety.

Question - What is a Category 6 PVC Sleeve? (page 26 – Item 65)

A. The Category 6 PVC Sleeve is known as CAT6 PVC Cable Boots Sleeves. These sleeves are used to protect the RJ45 clips.

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Question - In what quantity should this cable be priced at? (page 26 – Item 66)

A. The quantity this cable should be priced at is up to individual bidder. The cable is normally purchased in spool of 1,000 feet but each bidder can determine their cost and length.

Question - What manufacturer and part # for the patch panel? (page 26 – Item 67)

A. Bidder can use Leviton or equivalent. This will vary per manufacturer . Bidder may list your suggested part # in quote.

Question - What manufacturer and part # for the patch panel? (page 26 – Item 68)

A. Bidder can use Leviton or equivalent. This will vary per manufacturer . Bidder may list your suggested part # in quote.

Question - What manufacturer and part # for the patch panel? (page 26 – Item 69)

A. This will vary per manufacturer. The patch panel management should be done correctly with proper cable management and lengths.

Question - What manufacturer and part # for the hinged wall mount? (page 26 – Item 70)

A. Bidder can use Leviton or equivalent. This will vary per manufacturer . Bidder may list your suggested part # in quote.

Question - Is this just for one 10' section of 12" ladder rack? (page 26 – Item 72)

A. Yes. Accessories (butt-splice kits, wall angle brackets, ground straps, etc. will be done as a change order based on room design).

Question - What part # for the Leviton wire manager? (page 26 – Item 73)

A. Bidder can use Leviton or equivalent. This will vary per manufacturer . Bidder may list your suggested part # in quote.

Question - Leviton vertical wire managers do not come in per foot increments. Which part # do you require? (page 26 – Item 74)

A. Bidder can use Leviton or equivalent. This will vary per manufacturer . Bidder may list your suggested part # in quote.

Question - Leviton vertical wire managers do not come in per foot increments. Which part # do you require? (page 26 – Item 75)

A. Bidder can use Leviton or equivalent. This will vary per manufacturer . Bidder may list your suggested part # in quote.

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Question - How many outlets and amperage do you require for the power strip? (page 27 – Item 76)

A. The number of outlets and amperage will vary based on the site. There are between 120 and 240 outlets at each site. A site survey is recommended for each site to get accurate quotes and materials needed. This depending on the size of the rack as well as what will fit in a certain location. It will vary per manufacturer so you may list your suggested part # in your quote. If a site needs a rack of 6 feet we would require 2 each vertical PDU with 9 minimum outlets. If the cabinet is a 3 foot cabinet, then a smaller horizontal 10 port could be utilized.

Question - As there is a significant difference in price between plenum and non-plenum cable, which do you want us to price? (page 27 – Items 77-81)

A. A separate line item has been added for non-plenum cable pricing.

Question - Please provide a manufacturer and part number for this connector. (page 27 – Item 84)

A. Line Item 84 is deleted in its entirety.

Question - Please provide a manufacturer and part number for this connector. (page 27 – Item 85)

A. Line Item 85 is deleted in its entirety.

Question - Please provide a manufacturer and part number for this connector. (page 28 – Item 88)

A. Line Item 88 is deleted in its entirety.

Question - Please provide a manufacturer and part number for this connector. (page 28 – Item 89)

A. Line Item 89 is deleted in its entirety.

Question - Please provide a manufacturer and part number for this connector. (page 28 – Item 90)

A. Line Item 90 is deleted in its entirety.

Question - Please provide a manufacturer and part number for this connector. (page 28 – Item 91)

A. Line Item 91 is deleted in its entirety.

Question - Are these labor only items and the county will provide the materials? (page 28-29 – Items 92-106)

A. These are labor and material.

Question - What length and type of cable? (page 28 – Item 92)

A. Line Item 92 is deleted in its entirety.

Question - How many fiber strands? Interior or exterior installation? In inner duct, free run, or aerial? (page 28 – Item 93)

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A. Line Item 93 is deleted in its entirety.

Question - How strand fiber cable are we to splice? (page 28 – Item 94)

A. Price splicing 24-strand to 24-strand OSP cable in an outdoor environment.

Question - How strand fiber cable are we to splice? (page 28 – Item 95)

A. Price splicing 24-strand to 24-strand OSP cable in an outdoor environment.

Question - Provide a part number for the fan-out kit. (page 29 – Item 96)

A. Bidder can use Leviton or equivalent. This will vary per manufacturer . Bidder may list your suggested part # in quote.

Question - Which fiber connector are we to include in the price? (page 29 – Item 97)

A. Line Item 97 is deleted in its entirety.

Question - For what type of cable and count are we to size the enclosure for? (page 29 – Item 98)

A. 1 In/1 Out, 24-strand OSP fiber.

Question - For what type of cable and count are we to size the enclosure for? (page 29 – Item 99)

A. 1 In/1 Out, 24-strand OSP fiber.

Question - What length and type of patch cord? (page 29 – Item 100)

A. Length of the patch cord is not relevant. This is labor cost as needed.

Question - Is this for single or multimode? Indoor or outdoor fiber? What type of connector on the pigtail? (page 29 – Item 101)

A. A new line is created. 1 for singlemode and 1 for multimode. OSP cable. SC connector.

Question - What type of fiber patch cord are we to price (OM1, OM2, OM3, or OM4)? (page 31 – Items 113-124)

A. The type of fiber patch cord can be OM3 or OM4 .

Question - The part number SMT750RM12U is not a valid number. Do you mean the SMT750RM2U? (page 33 – Item 137)

A. The part number should be SMT750RM2U.

Question - Line Item 146 is missing. Looks like it should be Holiday Labor Rate for Copper Tech. (page 33-34)

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A. Yes. This was an oversight. Line 146 added as "Holiday Labor Rate for Copper Tech".

Question - Why the requirement for training? (page 34 – Item 148)

A. Line Item 148 is deleted in its entirety.

Question - Why the requirement for training? (page 35 – Note 2)

A. Note 2 is deleted in its entirety.

Question - Note 3 states "Item Category Numbers in parenthesis are for internal use only. Bidder shall enter representative prices in the price schedule for labor only. " Note 16 states "Labor and materials to be quoted in all lines that say "Install"." which most of those items have "Install". Are we or are we not to include material on the Items with category numbers in parenthesis? (page 35 – Note 3 and Note 16)

A. In Note 3 "Internal use" means just that internal use only. This is used for Cost center allocation. Note 16 means you base quote off materials and labor all parts that say "INSTALL".

Question - Will the county be purchasing fiber for us to install? (page 35 – Note 10)

A. This statement means that the property will be available for testing. The fiber is provided by the vendor.

Question - Is "testing" equivalent to "certifying"? (page 35 – Note 11)

A. Note: 11 on page 35 should read: Testing and certification should be included in all fiber and cables.

Question - Will the county be purchasing fiber for us to install? (page 35 – Note 12)

A. Note 12 is deleted in its entirety.

Question - For lines items that do not have "Install", do we exclude labor? (page 35 – Note 16)

A. Labor and materials should be included on all lines that require both.

Question - States the county is providing patch panels for all cables. Does this mean that for the line items that have "new patch panel" (example Item 10) we are not to include the patch panel but to include labor to install 1 (or 2?) county provided patch panel(s)? (page 36 – Paragraph 7)

A. No. This means some locations already have patch panel. A site survey is recommended for each site to get accurate quotes and materials needed.

Question - States materials used must be consistent with materials already present within that building. With the county standardizing on Leviton, we suggest removing this requirement (page 37 – Paragraph 11)

A. A site survey is recommended for each site to get accurate quotes.

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Question - States "Provide per foot charge for item 14 "Panduit" and material should be indoor PVC standard 4. You are providing both labor and material cost. "Item 14 is fiber cable. Please provide the correct line item this is referring to. (page 37 – Paragraph 17)

A. Paragraph 17 is deleted in its entirety.

Question - States "Traffic Engineering Administration requests ODTR reading before the fiber leaves the yard and after it is installed." Will the county be purchasing and storing fiber for us to install? (page 37 – Paragraph 17)

A. Paragraph 17 is deleted in its entirety.

Question – (General) Are you requiring a 15-year Leviton Limited 15-year warranty on installed cables?

A. No. We require each vendor to be certified and each product sold to have some sort of warranty of at least 5 years. Most quality products today have that.

Question – (General) If the county has standardized on Leviton, should the "or equivalent" be discarded?

A. No. Leviton or equivalent means there are other companies that are equivalent to Leviton products. We just can't list them all so this is an example of the quality product we require.

Question – (General) Should all of the multimode be considered 50 micron and not 62.5 micron?

A. No. They should not as each site may have a different Multi-mode at that location. Site survey is recommended for each site to get accurate quotes.

Question – (General) Should all 50/125 multimode be considered OM3?

A. No, they should not as each site may have a different Multi-mode at that location. Site survey is recommended for each site to get accurate quotes.

Question – (General) With the amount of questions presented and time frame left until bid date, can the bid date be extended 1 week to allow you to make changes to the bid and answer questions and for us to make changes to our bid?

A. Bid due date has been extended to Tuesday, January 17, 2017 @ 3:00 p.m.

Question - On page 8, section C of the ITB, it states that Delivery instructions are (Not applicable); however, it also states at the end of that section " Time of delivery is a part of the solicitation and an element of the contract that is to be awarded...Failure to deliver in accordance with the contract could result in the Contractor being declared in default." Can you please confirm that the Contractor is not responsible for any terms of delivery?

A. This bid is for services. If goods are included in your quote for a project you are expected to have them on hand at the time of installation.

2. All other conditions remain in full force and effect.

3. It is the responsibility of each bidder to ensure that he/she is aware of all addenda issued under this ITB. You may call the agent @ 404-687-3473 before the bids are due to confirm the number of addenda issued.

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4. Please acknowledge addenda by signing and returning the Addendum form with the bid.

Pamela D. Williams

Pamela D. Williams, Procurement Agent
Department of Purchasing and Contracting

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ACKNOWLEDGEMENT

The above **Addendum #2** is hereby acknowledged:

(Company Name)

(Signature & Title)

**ATTACHMENT A
MINIMUM SPECIFICATIONS**

PRICE SCHEDULE

ITEM NO.	Move/Add/ Change MAC Description	Base Charge	Per Ft. Charge	No. Runs	High Priority Surcharge %	New Building Discount %
1.	<i>Add Category 6, 24 AWG, and Plenum Cable.</i>	\$_____	\$_____	<i>1Each</i>	_____	_____
2.	<i>Move, Change or Repair Category 6, 24 AWG, and Plenum Cable.</i>	\$_____	\$_____	<i>1Each</i>	_____	_____
3.	<i>Add Video RG6.</i>	\$_____	\$_____	<i>1Each</i>	_____	_____
4.	<i>Move/Change or Repair Video RG6.</i>	\$_____	\$_____	<i>1Each</i>	_____	_____
5.	LINE DELETED IN ITS' ENTIRETY	N/A	N/A	N/A	N/A	N/A
6.	<i>Fiber Multi-mode, Interior, SC – SC, 50 Micron, 125u, Wall Mount and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$_____	\$_____	<i>1 Pair</i>	_____	_____
		\$_____	\$_____	<i>1 Pair</i>	_____	_____
7.	<i>Fiber Multi-mode, Interior, SC – SC, UPC, 50 Micron, 125u, Wall Mount and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$_____	\$_____	<i>6 Pairs</i>	_____	_____
		\$_____	\$_____	<i>6 Pairs</i>	_____	_____
8.	<i>Fiber Multi-mode, Interior, LC – SC, UPC, 50 Micron, 125u, Wall Mount and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$_____	\$_____	<i>6 Pairs</i>	_____	_____
		\$_____	\$_____	<i>6 Pairs</i>	_____	_____
9.	LINE DELETED IN ITS' ENTIRETY	N/A	N/A	N/A	N/A	N/A
10.	<i>Fiber Multi- mode, Interior, SC – SC, UPC, 50 Micron, 125u, Wall Mount and New Patch Panel. Leviton, or equivalent. Brand:_____.</i> <i>(one line for interduct or Armor if applicable)</i>	\$_____	\$_____	<i>1 Pair</i>	_____	_____
		\$_____	\$_____	<i>1 Pair</i>	_____	_____

PRICE SCHEDULE						
Item No.	Move/Add/ Change MAC Description	Base Charge	Per Ft. Charge	No. Runs	High Priority Surcharge%	New Building Discount%
11.	<i>Fiber Multi- mode, Interior, SC – SC, UPC, 50 Micron, 125u, Wall Mount and New Patch Panel. Leviton, or equivalent. Brand:_____.</i> <i>(one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	6 Pairs 6 Pairs	_____ _____	_____ _____
12.	<i>Fiber Multi- mode, Interior, SC – SC, UPC, 50 Micron, 125u, Wall Mount and New Patch Panel. Leviton, or equivalent. Brand:_____.</i> <i>(one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	12 Pairs 12 Pairs	_____ _____	_____ _____
13.	<i>Fiber Multi-mode, Interior, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 19 inches or 23 inches, and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	1 Pair 1 Pair	_____ _____	_____ _____
14.	<i>Fiber Multi-mode, Interior, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 19 inches or 23 inches, and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	6 Pairs 6 Pairs	_____ _____	_____ _____
15.	<i>Fiber Multi-mode, Interior, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 19 inches or 23 inches, and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	12 Pairs 12 Pairs	_____ _____	_____ _____
16.	<i>Fiber Multi-mode, Interior, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 19 inches, and New Patch Panel. Leviton, or equivalent. Brand:_____.</i> <i>(one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	1 Pair 1 Pair	_____ _____	_____ _____
17.	<i>Fiber Multi-mode, Interior, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 19 inches, and New Patch Panel. Leviton, or equivalent. Brand:_____.</i> <i>(one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	6 Pairs 6 Pairs	_____ _____	_____ _____
18.	<i>Fiber Multi-mode, Interior, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 19 inches, and New Patch Panel. Leviton, or equivalent. Brand:_____.</i> <i>(one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	12 Pairs 12 Pairs	_____ _____	_____ _____
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Item No.	Move/Add/ Change MAC Description	Base Charge	Per Ft. Charge	No. Runs	High Priority Surcharge %	New Building Discount %
19.	<i>Fiber Multi-mode, Interior, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 23 inches, and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	1 Pair 1 Pair	_____ _____	_____ _____
20.	<i>Fiber Multi-mode, Interior, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 23 inches, and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	6 Pairs 6 Pairs	_____ _____	_____ _____
21.	<i>Fiber Multi-mode, Interior, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 23 inches, and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	12 Pairs 12 Pairs	_____ _____	_____ _____
22.	<i>Fiber Multi-mode, Exterior Armor-Clad, SC – SC, UPC, 50 Micron, 125u, Wall Mount, 19 inches, and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	6 Pairs 6 Pairs	_____ _____	_____ _____
23.	<i>Fiber Multi-mode, Exterior Armor-Clad, SC – SC, UPC, 50 Micron, 125u, Wall Mount, 19 inches, and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	12 Pairs 12 Pairs	_____ _____	_____ _____
24.	<i>Fiber Multi-mode, Exterior Armor-Clad, SC – SC, UPC, 50 Micron, 125u, Wall Mount, 19 inches, and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	48 Pairs 48 Pairs	_____ _____	_____ _____

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Item No.	Move/Add/ Change MAC Description	Base Charge	Per Ft. Charge	No. Runs	High Priority Surcharge%	New Building Discount %
25.	<i>Fiber Multi-mode, Exterior Armor-Clad, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 19 inches or 23 inches, and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	6 Pairs 6 Pairs	_____ _____	_____ _____
26.	<i>Fiber Multi-mode, Exterior Armor-Clad, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 19 inches or 23 inches, and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	12 Pairs 12 Pairs	_____ _____	_____ _____
27.	<i>Fiber Multi-mode, Exterior Armor-Clad, SC – SC, UPC, 50 Micron, 125u, Rack Mount, 19 inches or 23 inches, and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	48 Pairs 48 Pairs	_____ _____	_____ _____
28.	<i>Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Wall Mount, and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	1 Pair 1 Pair	_____ _____	_____ _____
29.	<i>Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Wall Mount, and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	6 Pairs 6 Pairs	_____ _____	_____ _____
30.	<i>Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Wall Mount, and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	12 Pairs 12 Pairs	_____ _____	_____ _____
31.	<i>Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Wall Mount, and Existing Patch Panel. (one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	48 Pairs 48 Pairs	_____ _____	_____ _____
32.	<i>Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Wall Mount, and New Patch Panel. Leviton, or equivalent. Brand: _____.</i> <i>(one line for interduct or Armor if applicable)</i>	\$ _____ \$ _____	\$ _____ \$ _____	1 Pair 1 Pair	_____ _____	_____ _____

PRICE SCHEDULE						
Item No.	Move/Add/ Change MAC Description	Base Charge	Per Ft. Charge	No. Runs	High Priority Surcharge%	New Building Discount %
33.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Wall Mount, and New Patch Panel. Leviton, or equivalent. Brand: _____. (one line for interduct or Armor if applicable)	\$ _____	\$ _____	6 Pairs	_____	_____
		\$ _____	\$ _____	6 Pairs	_____	_____
34.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Wall Mount, and New Patch Panel. Leviton, or equivalent. Brand: _____. (one line for interduct or Armor if applicable)	\$ _____	\$ _____	12 Pairs	_____	_____
		\$ _____	\$ _____	12 Pairs	_____	_____
35.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Wall Mount, and New Patch Panel. Leviton, or equivalent. Brand: _____. (one line for interduct or Armor if applicable)	\$ _____	\$ _____	48 Pairs	_____	_____
		\$ _____	\$ _____	48 Pairs	_____	_____
36.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, and 19 inches or 23 inches Existing Patch Panel. (one line for interduct or Armor if applicable)	\$ _____	\$ _____	1 Pair	_____	_____
		\$ _____	\$ _____	1 Pair	_____	_____
37.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, and 19 inches or 23 inches Existing Patch Panel. (one line for interduct or Armor if applicable)	\$ _____	\$ _____	6 Pairs	_____	_____
		\$ _____	\$ _____	6 Pairs	_____	_____
38.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, and 19 inches or 23 inches Existing Patch Panel. (one line for interduct or Armor if applicable)	\$ _____	\$ _____	12 Pairs	_____	_____
		\$ _____	\$ _____	12 Pairs	_____	_____
39.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, and 19 inches or 23 inches Existing Patch Panel. (one line for interduct or Armor if applicable)	\$ _____	\$ _____	48 Pairs	_____	_____
		\$ _____	\$ _____	48 Pairs	_____	_____
40.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, and 19 inches New Patch Panel. Leviton, or equivalent. Brand: _____. (one line for interduct or Armor if applicable)	\$ _____	\$ _____	1 Pair	_____	_____
		\$ _____	\$ _____	1 Pair	_____	_____

PRICE SCHEDULE						
Item No.	Move/Add/ Change MAC Description	Base Charge	Per Ft. Charge	No. Runs	High Priority Surcharge %	New Building Discount %
41.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, and 19 inches New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)	\$ _____ \$ _____	\$ _____ \$ _____	6 Pairs 6 Pairs	_____ _____	_____ _____
42.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, and 19 inches New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)	\$ _____ \$ _____	\$ _____ \$ _____	12 Pairs 12 Pairs	_____ _____	_____ _____
43.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, 19 inches and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)	\$ _____ \$ _____	\$ _____ \$ _____	48 Pairs 48 Pairs	_____ _____	_____ _____
44.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, 23 inches and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)	\$ _____ \$ _____	\$ _____ \$ _____	1 Pair 1 Pair	_____ _____	_____ _____
45.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, 23 inches and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)	\$ _____ \$ _____	\$ _____ \$ _____	6 Pairs 6 Pairs	_____ _____	_____ _____
46.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, 23 inches and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)	\$ _____ \$ _____	\$ _____ \$ _____	12 Pairs 12 Pairs	_____ _____	_____ _____
47.	Fiber Single Mode, Interior, SC – SC, UPC, 9 Micron, 1310u 1550u, Rack Mount, 23 inches and New Patch Panel. Leviton, or equivalent. Brand: _____ . (one line for interduct or Armor if applicable)	\$ _____ \$ _____	\$ _____ \$ _____	48 Pairs 48 Pairs	_____ _____	_____ _____

PRICE SCHEDULE						
<i>Item No.</i>	Move/Add/ Change MAC Description	Base Charge	Per Ft. Charge	No. Runs	High Priority Surcharge %	New Building Discount %
48.	<i>Fiber Single Mode, Exterior Armor-Clad, SC – Sc, UPC, 9 Micron, 125u, Rack Mount, 19 inches or 23 inches, and Existing Patch Panel.</i>	\$ _____	\$ _____	6 Pairs	_____	_____
49.	<i>Fiber Single Mode, Exterior Armor-Clad, SC – Sc, UPC, 9 Micron, 125u, Rack Mount, 19 inches or 23 inches, and Existing Patch Panel.</i>	\$ _____	\$ _____	12 Pairs	_____	_____
50.	<i>Fiber Single Mode, Exterior Armor-Clad, SC – Sc, UPC, 9 Micron, 125u, Rack Mount, 19 inches or 23 inches, and Existing Patch Panel.</i>	\$ _____	\$ _____	48 Pairs	_____	_____
51.	<i>Fiber Single Mode, Exterior Armor-Clad, SC – Sc, UPC, 9 Micron, 125u, Rack Mount, 19 inches or 23 inches, and New Patch Panel. Leviton, or equivalent. Brand: _____.</i>	\$ _____	\$ _____	6 Pairs	_____	_____
52.	<i>Fiber Single Mode, Exterior Armor-Clad, SC – Sc, UPC, 9 Micron, 125u, Rack Mount, 19 inches or 23 inches, and New Patch Panel. Leviton, or equivalent. Brand: _____.</i>	\$ _____	\$ _____	12 Pairs	_____	_____
53.	<i>Fiber Single Mode, Exterior Armor-Clad, SC – Sc, UPC, 9 Micron, 125u, Rack Mount, 19 inches or 23 inches, and New Patch Panel. Leviton, or equivalent. Brand: _____.</i>	\$ _____	\$ _____	48 Pairs	_____	_____

PRICE SCHEDULE

**MOVE/ADD/CHANGE(MAC) RATES -
MISCELLANEOUS SUPPLIES/ SPECIALITY LABOR**

54.	Rack, Relay, Size: 19 inches, 2-feet, Wall Mount- include grounding. <i>Leviton, or equivalent. Brand:_____.</i>	Each	\$_____
55.	Rack, Relay, Size: 19 inches, 3-feet, Wall Mount- include grounding. <i>Leviton, or equivalent. Brand:_____.</i>	Each	\$_____
56.	Rack, Relay, Size: 23 inches, 2-feet, Wall Mount- include grounding. <i>Leviton, or equivalent. Brand:_____.</i>	Each	\$_____
57.	Rack, Relay, Size: 23 inches, 3-feet, Wall Mount- include grounding. <i>Leviton, or equivalent. Brand:_____.</i>	Each	\$_____
58.	Rack, Relay, Size: 19 inches, 4-feet, Floor Mount- include grounding. <i>Leviton, or equivalent. Brand:_____.</i>	Each	\$_____
59.	Rack, Relay, Size: 19 inches, 8-feet, Floor Mount- include grounding. <i>Leviton, or equivalent. Brand:_____.</i>	Each	\$_____
60.	Rack, Relay, Size: 23 inches, 4-feet, Floor Mount- include grounding. <i>Leviton, or equivalent. Brand:_____.</i>	Each	\$_____
61.	Rack, Relay, Size: 23 inches, 8-feet, Floor Mount- include grounding. <i>Leviton, or equivalent. Brand:_____.</i>	Each	\$_____
62.	Rack Enclosure, 19 inches Internal Rack Width, Locking Front & Back, Smoke glass front, Top Fan, 3-Power Strips, and Locking Casters- include grounding. <i>Leviton, or equivalent. Brand:_____.</i>	Each	\$_____
63.	Rack Enclosure, 23 inches Internal Rack Width, Locking Front & Back, Smoke glass front, Top Fan, 3-Power Strips, and Locking Casters- include grounding. <i>Leviton, or equivalent. Brand:_____.</i>	Each	\$_____

PRICE SCHEDULE

ITEM NO.	MOVE/ADD/CHANGE(MAC) RATES - MISCELLANEOUS SUPPLIES/ SPECIALITY LABOR	UNIT	PRICE
64.	<i>LINE DELETED IN ITS' ENTIRETY</i>	N/A	N/A
65.	Category 6 PVC Sleeve	Each	\$ _____
66.	Category 6 Plenum Cable	Each	\$ _____
67.	24 Port Panel Category 6 Rack Mount	Each	\$ _____
68.	48 Port Panel Category 6 Rack Mount	Each	\$ _____
69.	96 Port Panel Category 6 Rack Mount	Each	\$ _____
70.	2-Unit Hinged Wall Mount	Each	\$ _____
71.	7-foot. Relay Rack (specify size)	Each	\$ _____
72.	Ladder Rack Section for every 10 feet	Each	\$ _____
73.	3.5 Open Horizontal Wire Management Device. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
74.	2, 3, 4, 8-feet. Side Only/Double Sided Vertical Wire Management Device. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Per Foot	\$ _____
75.	2, 3, 4, 8-feet. Center Mount/Double Sided Vertical Wire Management Device. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Per Foot	\$ _____

PRICE SCHEDULE

CUSTOMER FIBER CABLE ASSEMBLY MATRIX

76.	Rack Mount Power Strip for enclosure. APC or equivalent.	Each	\$ _____
77.	Fiber, single mode, 3.0 mm OD, simplex, 4/1310, 1550um. (plenum/non-plenum as required). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Plenum/Foot Non-plenum/Foot	\$ _____ \$ _____
78.	Fiber, single mode, 3.0 mm OD, duplex, 4/1310, 1550um (plenum/non-plenum as required). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Plenum/Foot Non-plenum/Foot	\$ _____ \$ _____
79.	Fiber, single mode, 3.0 mm OD, simplex, 9/125um. (plenum/non-plenum as required). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Plenum/Foot Non-plenum/Foot	\$ _____ \$ _____
80.	Fiber, single mode, 3.0 mm OD, duplex, 4/1310, 1550um. (plenum/non-plenum as required). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Plenum/Foot Non-plenum/Foot	\$ _____ \$ _____
81.	Fiber, FDDI grade cable (round) two-fiber multi-mode 9/125um. (plenum/non-plenum as required). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Plenum/Foot Non-plenum/Foot	\$ _____ \$ _____
82.	Fiber, connectors, UPC, single mode, 4 micron, 1310u/1550u, ST. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Pair	\$ _____
83.	Fiber, connectors, UPC, single mode, 4 micron, 1310u/1550u, SC. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Pair	\$ _____
84.	<i>LINE DELETED IN ITS' ENTIRETY</i>	N/A	N/A
85.	<i>LINE DELETED IN ITS' ENTIRETY</i>	N/A	N/A

PRICE SCHEDULE			
CUSTOMER FIBER CABLE ASSEMBLY MATRIX			
86.	LINE DELETED IN ITS' ENTIRETY	N/A	N/A
87.	LINE DELETED IN ITS' ENTIRETY	N/A	N/A
88.	LINE DELETED IN ITS' ENTIRETY	N/A	N/A
89.	LINE DELETED IN ITS' ENTIRETY	N/A	N/A
90.	LINE DELETED IN ITS' ENTIRETY	N/A	N/A
91.	LINE DELETED IN ITS' ENTIRETY	N/A	N/A
92.	LINE DELETED IN ITS' ENTIRETY	N/A	N/A
93.	LINE DELETED IN ITS' ENTIRETY	N/A	N/A
94.	Fusion Splicing of Fibers (Category 5). <i>Leviton, or equivalent.</i> Brand: _____.	Each	\$ _____
95.	Mechanical Splicing of Fibers (Category 20). <i>Leviton, or equivalent.</i> Brand: _____.	Each	\$ _____

PRICE SCHEDULE			
ITEM NO.	CUSTOMER FIBER CABLE ASSEMBLY MATRIX	UNIT	UNIT PRICE
96.	Install Fan-out Kit (Category 25). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
97.	<i>LINE DELETED IN ITS' ENTIRETY</i>	N/A	N/A
98.	Install Underground Closure (Category 35). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
99.	Install Aerial Closure (Category 40). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
100.	Install Patch Cord (Category 50). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
101.	Install Pig Tail (Category 55) – include splicing. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Single-Mode Each Multi-Mode Each	\$ _____ \$ _____
102.	Install Drop Kit (Category 60). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
103.	Remove Underground Cable (Category 65). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
104.	Remove Aerial Cable (Category 70). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Linear Foot	\$ _____
105.	Install Strand Cable (Category 75). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Linear Foot	\$ _____
106.	Install Guy Anchor (Category 80). <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____

PRICE SCHEDULE

PATCH CABLES

Colors: Red, Blue, White, Yellow Gray, and Purple

107.	3 Feet. CAT 6. <i>Leviton, or equivalent.</i> <i>Brand:</i> _____.	Each	\$ _____
108.	5 Feet. CAT 6. <i>Leviton, or equivalent.</i> <i>Brand:</i> _____.	Each	\$ _____
109.	7 Feet. CAT 6. <i>Leviton, or equivalent.</i> <i>Brand:</i> _____.	Each	\$ _____
110.	10 Ft. CAT 6. <i>Leviton, or equivalent.</i> <i>Brand:</i> _____.	Each	\$ _____
111.	15 Ft. CAT 6. <i>Leviton, or equivalent.</i> <i>Brand:</i> _____.	Each	\$ _____
112.	25 Ft. CAT 6. <i>Leviton, or equivalent.</i> <i>Brand:</i> _____.	Each	\$ _____

PRICE SCHEDULE
FIBER PATCH CABLES

113.	3M MM SC to SC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
114.	5M MM SC to SC. (OM3 or OM4 Fiber Patch Cord) (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
115.	7M MM SC to SC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
116.	10M MM SC to SC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
117.	3M MM SC to LC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
118.	5M MM SC to LC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
119.	7M MM SC to LC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
120.	10M MM SC to LC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
121.	3M MM LC to LC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
122.	5M MM LC to LC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
123.	7M MM LC to LC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
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PRICE SCHEDULE			
FIBER PATCH CABLES			
124.	10M MM LC to LC. (OM3 or OM4 Fiber Patch Cord) <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
125.	3M SM SC to SC. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
126.	5M SM SC to SC. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
127.	7M SM SC to SC. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
128.	10M SM SC to SC. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
129.	3M SM SC to LC. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
130.	5M SM SC to LC. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
131.	7M SM SC to LC. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
132.	10M SM SC to LC. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____
133.	3M SM LC to LC. <i>Leviton, or equivalent.</i> <i>Brand: _____.</i>	Each	\$ _____

PRICE SCHEDULE			
FIBER PATCH CABLES			
134.	5M SM LC to LC. <i>Leviton, or equivalent.</i> <i>Brand:_____.</i>	Each	\$_____
135.	7M SM LC to LC. <i>Leviton, or equivalent.</i> <i>Brand:_____.</i>	Each	\$_____
136.	10M SM LC to LC. <i>Leviton, or equivalent.</i> <i>Brand:_____.</i>	Each	\$_____
137.	UPS, APC 750 RM – SMT750RM12U	Each	\$_____
138.	UPS, APC 1500 RM – SMT1500RM2U	Each	\$_____
139.	UPS, APC 2000 RM – SMX2000RMLV2U	Each	\$_____
140.	UPS, APC 3000 RM – SMT3000RM2U	Each	\$_____
141.	Regular labor rate for Fiber Technician, Re-certification, Repair, Troubleshooting, etc.		\$____hrly
142.	Regular labor rate for Copper Wiring Technician, Re-certification, Repair, Troubleshooting, etc.		\$____hrly
143.	Over-time labor rate for Fiber Technician, Re-certification, Repair, Troubleshooting, etc.		\$____hrly
144.	Overtime labor rate for Copper Wiring Technician, Re-certification, Repair, Troubleshooting, etc.		\$____hrly
145.	Holiday labor rate for Fiber Technician, Re-certification, Repair, Troubleshooting, etc.		\$____hrly

Invitation No. 16-100800

Addendum No. 2

January 11, 2017

PRICE SCHEDULE		
FIBER PATCH CABLES		
146.	Holiday labor rate for Copper Tech	\$ _____ hrly
147.	In the event that the County requires contractor to furnish materials and supplies not specifically listed in the schedule, then bidder state percent mark-up over list:	_____ %
148.	LINE DELETED IN ITS' ENTIRETY	N/A
End Price Schedule		

SUPPLIER REQUIREMENTS:

NOTE 1: Contractor shall furnish all insurance, shipping, materials, supplies, parts, equipment, expertise, apparatus, testing, service, tools, supervision, labor, engineering, technical knowledge, skills, and all things necessary for the **INSTALLATION OF DATA, VOICE & MULTIMEDIA CABLING** in accordance with the following **Minimum Specifications**, industry standards or designated by the County.

NOTE 2: NOTE 2 IS DELETED IN ITS' ENTIRETY.

NOTE 3: Price = Base Charge + Price per foot per Certification x Total Feet of Wire + High Priority Surcharge (if applicable) minus Penalty (if applicable) minus New Building Discount (if applicable). Item Category Numbers in parenthesis are for internal use only. Bidder shall enter representative prices in the price schedule for labor only.

NOTE 4: Amount of work will vary. County expects to install approximately 250 to 300 computers during the course of the first year, but this is only an estimate. Last year (150) tickets were created which involved moves/repairs, installation, voice lines, Cat 6 lines, fiber repairs, new buildings, Cat 6, voice & data.

NOTE 5: Primary DeKalb County contact for this contract is Scott Longenbach at 404-371-2901.

NOTE 6: Cable assemblies for single & multi mode, simplex & duplex cables and connectors: Itemized components for cable assemblies will be ordered by type of cable, at a given standard length with specified connectors on each end. Bidder shall price components accordingly. If same connectors on both fibers, different

NOTE 7: Estimated annual purchase levels for cable assemblies: 400-500 patch cables, 75% single mode, 25% multi-mode, 85% SC connectors, 8% ST balance to remainder of listed connectors.

Bidder state regular hours worked by firm: _____

Bidder state holidays observed by firm: _____

NOTE 8: NOTE 8 IS DELETED IN ITS' ENTIRETY.

NOTE 9: The vendor will not be required to pull permits for every install.

NOTE 10: Fiber will be on County property and available for testing prior to each project assignment.

NOTE 11: Testing and certification should be included in all fiber and cables.

NOTE 12: NOTE 12 IS DELETED IN ITS' ENTIRETY.

NOTE 14: The County expects any respondent to be able to exhibit compliance with any of the following:

1. TIA/EIA - (Telecommunications Industry Association) (Electronics Industries Association) 568-B.1, B.2, B.3, 568A, 569, 606, and 607.
2. NFPA - (National Fire Protection Association).
3. ISO/IEC 11801 - (International Organization for Standardization) (International Electrotechnic Commission)
4. All Local Codes and Ordinances.
5. Cabling infrastructure for a wireless LAN Access Point (AP) distribution system for any county buildings, any floor and/or radiating antenna. (IEEE 802.11 a/b/g/n Compliant).

NOTE 15: Qualifications are required. Refer to page 27, XIX.

NOTE 16: Labor and materials should be included on all lines that require both.

NOTE 17: Site survey may be required for some installations.

Minimum Technical Specifications

- 1) DeKalb County will issue a MAC request via Internet Email from the Help Desk requesting a MAC installation. Information included in this request will be:
Ticket number, requestor and alternate contact name, address, building, floor, telephone #, number of runs, type of run, and any special instructions.
- 2) Within one business day, the vendor will coordinate with the customer and schedule an AM/PM appointment date. This appointment date will be emailed to the Help Desk with ticket #. Upon completion vendor will immediately close each ticket via telephone and follow up email to the Help Desk within eight business hours.
- 3) All cable runs must be certified and pass industry standard testing for that wire type, meet all fire, building, electrical and FCC codes.
- 4) All cable material and labor must be warranted for a minimum period of one (1) year from turn up date.
- 5) MAC cable types include Category 6, (data and telecommunications), RG6 (video). All indoor cabling will be of plenum grade.
- 6) Normal requests are to be completed within two business days of initial email stamp. High priority requests are to be completed with 24 hours of initial email time stamp.
Note that high priority is 7 days per week 24 hours per day. Failure to meet established completion times for both services levels results in a penalty equal to that of your High Priority Surcharge.
- 7) All cables will terminate on equipment room patch panels 568B provided by the County where needed. County is responsible for ensuring space and backboard is available. County is responsible for allowing access to wiring closets and buildings.
- 8) Vendor Category 6 wiring responsibilities include: the cable run, faceplate installation / punch down, mounting patch panels when required, label both patch panel and faceplates to County standards, install 7 ft or 10 ft patch cable on faceplate port, install 3ft or 5ft patch cable on patch panel port, wire management and certification. 110 block and wire management. All Coax responsibilities include: cable run, termination, patch cords, wire management, and certification. Eighty percent (80%) of all above runs will terminate into existing gang boxes, twenty percent (20%) will require either gang boxes or gang eliminators or surface mount boxes, face plates, blanks, etc. Fiber wiring responsibilities include cable runs, termination of both ends, install or integrate to patch panel, dust cover caps, wire management, certification to include documentation (length, splices, wavelength, light loss, etc) and as built drawings (in electronic format).
- 9) Vendor will be expected to clean work site back to its original state, disposing of trash, wire clippings, etc. and replacing ceiling tiles.
- 10) Over the past year, the County has averaged 10 MAC requests per month ranging from 1–32 runs. Average length of run is 120 feet. The County could add new buildings and or renovate existing buildings.

Invitation No. 16-100800

Addendum No. 2

January 11, 2017

- 11) Materials used must be consistent with materials already present within that building. Current copper wiring materials used is Ortronics (85%) and Lucent (15%). Substitution of manufacture is not permitted. All terminations of Category 5 must be consistent with patch panel / jack type and color. (E.g. 568B to 568B, white, or bone). Current fiber patch panels with growth available are 3M. Future fiber wiring materials are non-vendor specific.
- 12) Vendor will bill monthly and include itemized billing by ticket number, number of runs, and type of run, priority, and amount of wire used in feet per certification.
- 13) All charges are inclusive to your bid, to include materials, labor, trip, shipping, installation, permits etc. Unless specified in your bid response and accepted by the County, no other fees will apply.
- 14) Patch cables color preference is blue, yellow, red, green, purple, white, and orange slight color variations are acceptable.
- 15) New building discount applies to new buildings or renovated space where wire can be installed before installation of ceiling tiles and furniture. The County will provide gang outlets and conduit to the ceiling.
- 16) Change orders are acceptable at the time of installation, only if the original requesting authority or the Department Head calls in the change request to the Help Desk before installation.
- 17) PARAGRAPH 17 IS DELETED IN ITS' ENTIRETY.

End of Specifications

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