

**WashU IT/TFC/BJC Communications 10/21/2016**  
**Structured Low Voltage Wiring Contractor Requirements**

<b>Service Type</b>	<b>Responsibility</b>	<b>Description or Comments</b>
<b>Low Voltage Copper Cable</b>	Selected Contractor	Voice / Data Cat 5e, 6, Cat 6a Installation, termination, testing, troubleshooting, and repair including feeder splice boxes.
<b>Fiber Optic - Installation &amp; Maintenance</b>	Selected Contractor	Corning fiber installation, termination, testing, troubleshooting & repair.
<b>Pathways - Installation &amp; Maintenance</b>	Selected Contractor	Installation of cable tray, ladder rack, 'J' hooks, etc.
<b>Communication Rooms Build-Out</b>	Selected Contractor	Physical construction of communications rooms to include floors, ceilings, electrical power, equipment racks, patch panels, vertical & horizontal wire management, cooling & environmental conditioning, fire protection, voice wall fields, established grounding procedures found in latest established structured low voltage wiring standard.
<b>Electrical - Installation</b>	Selected Contractor	Added 110v or 208v electrical power as required.
<b>Grounding &amp; Bonding - Installation</b>	Selected Contractor	Additional or bringing old communication rooms into compliance with established structured low voltage wiring standards.
<b>Outside Plant</b>	Selected Contractor	Outdoor fiber and conduit system & communications vault installation & maintenance.
<b>Certifications</b>		
<b>Belden (C)certified (S)system (V)endor - Cable Installation</b>	Installer	Trained on installation of all Belden Ethernet cable used by the Communications groups.
<b>Panduit - Connectivity</b>	Installer	Trained on termination of all low voltage cable in accordance with Panduit Certified Contractor Program and ANSI/TIA standards as defined within established low voltage standards.
<b>Corning - Installer &amp; Terminations</b>	Installer	Trained in installation and termination of all corning products as defined in the established low voltage structured wiring standards document.
<b>On Staff - RCDD</b>	Company	The participating contractor will have a BICSI Registered Communications Distribution Designer (RCDD) on staff.
<b>Fire Stop to include STI, EZ-Path</b>	Installer	Installer will be trained and certified on all fire stop processes and materials to include the STI, EZ-Path product.
<b>Training</b>		
<b>BJC Contractor Safety Training</b>	Installer	All installers will be familiar with and comply with BJC internal Contractor Safety Policies
<b>BJC Infection Control</b>	Installer	All installers will be familiar with and comply with BJC internal Infection Control policies
<b>SLCH Infection Control</b>	Installer	All installers should be familiar with and comply with SLCH internal Infection Control policies
<b>Contractor Supplied Training</b>	Installer	All Installers will be trained in OSHA safety polices for Confined Space, Hot Work, etc..
<b>References &amp; Safety Record</b>		
<b>Safety Record</b>	Company	Company's job safety record for the 12 months (or whatever is applicable).
<b>Health Industry Experience</b>	Company & Installer	Provide references in health related / patient environments when requested.
<b>Emergency Services Available</b>		
<b>After Hours Crew availability For Fiber &amp; Copper Repair</b>	Company	Emergency services outside of normal business hours will not likely be associated with a construction project. This would be pertinent however, if we are building a requirement document that would encompass all contractor capabilities for all work across the enterprise.
<b>As Builts &amp; Test Results</b>		
<b>Timeline for delivering As-Builts</b>	Company	Hard copy 'As-Builts' for all installed copper or fiber projects will be given to the appropriate analyst for a given site 3 weeks prior to 'move-in', with a CAD format soft copy to follow within 2 weeks of project close.
<b>Criteria for producing test results</b>	Company & Installer	Soft copy 'Test Result' for all installed copper or fiber projects will be given to the appropriate analyst for a given site 2 weeks after 'move-in'.
<b>Compliance</b>		
<b>Adhere to BJC Hospital Standards &amp; Policies</b>	Company & Installer	Company and installers are required to comply with all established hospital standards and policies.

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<b>Adhere to Governing Codes &amp; Policies (Medical)</b>	Company & Installer	Company and installers are required to comply with all governing body health standards and policies.
<b>Adhere to Governing Codes &amp; Policies (Civil)</b>	Company & Installer	Company and installers are required to comply with all civil standards and policies.
<b>Adhere to WashU IT/TFC/BJC Structured Low Voltage Wiring Standards.</b>	Company & Installer	Company and installers are required to comply with all WashU IT/TFC/BJC structured low voltage standard and policies.
<b>Adhere to BJC Facilities Standards &amp; Policies</b>	Company & Installer	Company and installers are required to comply with all internal communications standards and policies.
<b>Specialty Tools &amp; Equipment</b>		
<b>Heppa Filters</b>	Company	Heppa filtering is an environmental requirement throughout BJC & SLC facilities to satisfy Infection Control policies.
<b>Cozy Cubes</b>	Company	Cozy cubes may required in any area deemed necessary for patient safety and/or to satisfy Infection Control policies.
<b>Core Drilling Equipment</b>	Company	Periodic core drilling through walls or floors may be required. BJC does not provide this service or equipment. It will be the contractor's responsibility to provide anything necessary.
<b>Cable Testers</b>	Company	Contractor will have appropriate level III copper cable test equipment with calibration sticker.
<b>Fiber Testers</b>	Company	Contractor will have the appropriate test equipment at their disposal - OTDR (optical time domain reflectometer), fusion splicer.
<b>Labor</b>		
<b>Union Communications workers (No Electrical workers for Low Voltage work)</b>	Company	WashU IT/TFC/BJC communication groups require the use of communications workers, not electricians for all 'low voltage' work. Installers will be either IBEW or CWA and possess the appropriate low voltage training and or certifications.
<b>Equal Opportunity</b>		
<b>Minority Participation</b>	Company/WashU IT/TFC/BJC	It is desirable that equal opportunities be considered for all contracts. Communications defers to governing, or more knowledgeable authorities to define this, but everyone participating must meet the above listed technical requirements.