

PERFORMANCE WORK STATEMENT

FOR

90 CS PREMISE WIRING UPGRADE SERVICE BUILDING 333

F.E. Warren Air Force Base, Wyoming

21 February 2023

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1. Description of Services.

The contractor shall provide all management, tools, supplies, equipment, and labor necessary to perform cable replacement services in building 333 at F.E. Warren Air Force Base, Wyoming, in accordance with the 90th Telecommunications Installation Criteria Handbook (TIC) where applicable, and applicable federal, state, local laws and regulations and this performance work statement (PWS). Appendix D contains a list of documents reference in this PWS or are hereby recognized as a standard of good practice to follow during the performance of all work.

1.1. Basic Services. The contractor shall remove Category 5 (CAT 5) or older cables that run from the Main Communications Equipment Room (CER) to each communication jack and replace with new Category 6 (CAT 6) cables that shall connect with the new patch panel to be installed in the Hot Aisle Containment Room (HAC). Analog cables terminated to 66 termination punch down Blocks shall be removed unless otherwise directed. All outdated cabling shall be removed from the building by the contractor as defined in this PWS and disposed of. Additional work shall include but is not limited to install faceplates, patch panel(s), cable management, terminations, labeling, and any other work as identified in this PWS.

1.1.1. Cable Management. The new patch panel shall be located in the HAC room so the contractor shall need to establish new cable tray routes from the HAC room to the outlets. The new cable pathways shall use the most direct route from the HAC room to the outlets and adhere to the TIC standards of installation (TIC page 4). The contractor may use existing cable pathways where there are no defects to the support system and cable fill shall not exceed the 40% rule as stipulated in the National Electrical Code (NFPA 70). All cable pathways, currently existing or newly installed, shall be secured per TIC standards.

1.1.2. Cable Replacement. The contractor shall remove current cables that run from the CER to each communication jack and replace with new CAT 6 cable that shall terminate in the HAC room. Each communication jack in a duplex outlet shall have two CAT 6 cables, one for Voice and one for Data and each quad-plex outlet shall have four CAT 6 cables, two for Voice and two for Data. Each cable run shall be a continuous individual cable from the communication jack to the HAC (TIC page 2). The cable jacket for Voice shall be white in color and the LAN cable jacket shall be blue in color. The CAT 6 cable shall be labeled (TIC page 7) and meet the technical specifications (TIC page 2) of the TIC.

1.1.2.1 Cable Removal. All CAT 5 or older cables must be removed from the building and disposed of. No cables shall be left in place.

1.1.3. Analog Cable Removal. The analog cables connect to 66 termination punch down Block shall be removed from the building and disposed of.

1.1.3.1 Analog Block Removal. The contractor shall remove and dispose of the analog block after the analog cables are removed. No cables shall be left in place.

1.1.4. Faceplate Installation. All existing outlet faceplates shall be removed and replaced, like for like, with a new duplex or quad-plex faceplate, unless otherwise approved by 90 CS. The faceplate color shall be the same as the buildings existing faceplate color, white or ivory. The faceplate shall be able to comply with the labeling requirements (TIC page 8). The faceplates shall be labelled as per the TIC labeling requirements (TIC page 8). The bezel color for Voice shall be white and LAN shall be green.

1.1.5. Jack Assembly Termination. The contractor shall use CAT 6 RJ45 jack assembly. The jack assembly shall meet the RJ45 Pinout T-568B standard (TIC page 9), see Appendix A for diagram.

1.1.6. Patch Panel Installation. The contractor shall install new CAT 6 patch panel with 110 interface, punch down style in the HAC rack. The patch panel shall have a minimum of 48 ports and shall have at least 12 spare ports after all cables are connected. The contractor shall make the connections to each port. Each jack from a communication jack outlet shall be terminated on the same patch panel in consecutive order (White first, then Blue corresponding) (TIC page 5), see Appendix B for diagram. The patch panel shall be labelled as per the TIC labeling requirements (TIC page 7).

1.1.6.1. Patch Panel Removal. The contractor shall remove the old patch panel from the rack after all the cables have been removed and the new patch panel has been installed.

1.1.7. Workplace Condition. The workplace shall be clean of all debris and restored to original or better condition.

1.1.8. Drop Ceiling Panels. The Contractor shall be responsible for replacing ceiling panels that are damaged by contractor personnel.

1.1.9. Service Outages. The Contractor shall coordinate planned outages with the site POC at least 7 calendar days in advance of the outage if the implementation necessitates disruption of service, (e.g., communications, electrical, or other utilities). The Contractor shall be responsible for preventing any unscheduled outages (i.e. cutting or disabling any in-service cables or equipment).

1.2. Unique Situations.

1.2.1. Optional Cutover. 90th CS may require the contractor to do the cutover to the new patch panel if 90th CS is unable to arrange for the work to be done prior to starting the project. The contractor shall be notified prior to starting the project if they shall need to perform this work by the government exercising the option.

1.3. Schedule of Work.

1.3.1. Schedule of Work. The work shall be started within 120 days of award of the contract to the Contractor. The work shall be completed within 10 business days of starting work. Contractor shall propose a schedule of work within 7 days of notice of award to the Government Project Manager. The Government Project Manager will review the proposed schedule of work and will coordinate with the Contractor if the proposed schedule is not feasible. The approved schedule of work will be determined within 14 days of contract award.

1.4. Testing, Drawings, and Acceptance.

1.4.1. Contractor Testing. The Contractor shall certify and test all telecommunication cable as required (TIC page 6). A copy of the results shall be provided to the 90 CS Project Manager using common electronic software (i.e. PDF, Word, etc.). The Contractor shall make all corrective actions discovered upon testing to bring any deficiencies up to compliance as specified (TIC page 6).

1.4.2. Drawings. The Contractor shall provide drawings reflecting “AS-BUILT” conditions to 90 CS with the cable certification records. These shall include overall routing of new cable and butterfly drawings of each communication conduit used indicating entry and exit of the installed cabling in those conduits, as well items identified in the TIC (TIC page 7). The final drawings shall be provided to 90 CS prior to the final acceptance of the work to perform final review of drawings and inspect installation (TIC page 6 and 7).

1.4.3. Acceptance. The Government shall review the Contractor’s installation to ensure all PWS requirements are met and all required items were complied with.

1.5. Deliverables Table

Deliverable	Requirement	PWS Paragraph	Government PoC
Contract Manager Information	Within 3 days of contract award	4.9.1.	Project Manager
Proposed Schedule of Work	Within 7 days of contract award	1.3.1.	Project Manager
Approved Schedule of Work	Within 14 days of contract award	1.3.1.	Project Manager
Project start date	Within 120 days of contract award	1.3.1	N/A
Project completion date	Within 10 days of project start date	1.3.1	N/A
Contract Personnel List	No later than 14 days before project start date	4.3.1.	Project Manager
Strand test results	Upon project completion	1.4.1.	Project Manager
As-Built Package	Upon project completion	1.4.2.	Project Manager

2. Services Summary.

The contractor service delivery requirements are summarized into performance objectives that relate directly to standards of performance required to meet mission essential needs. For the Performance Objective to be met, service delivery must be in substantial compliance with applicable performance standards. The Performance Threshold describes the minimum overall levels of service delivery required for acceptable quality control. Failure to meet these Performance Thresholds means that contractor Quality Control is unacceptable. The following is a list of the key performance objectives that shall be verified as contractually compliant by Government personnel; however, inspection of any contract requirement is authorized.

Performance Objective	PWS Para.	Performance Threshold	Method of Surveillance
SS-1: Replace Cat 5 and older cables with CAT 6 cables and associated work	1.3.3.	Services must meet all Service Installation Standards and Requirements as identified or referenced. Any deviation from standard must be approved by 90 CS.	Periodic Surveillance Final walkthrough Customer Feedback
SS-2: Test CAT 6 cables	1.3.1.	100% of installed CAT 6 cables are fully functional	100% Inspection
SS-3: Submit Deliverables	1.4.	No more than one (1) late deliverable	100% inspection

3. Government Furnished Property and/or Services

3.1. Government Furnished Property.

3.1.1. None

3.2. Government Furnished Services.

3.2.1. Utilities. The Government will furnish the electricity, water, and sewage services (as necessary) for the accomplishment of service IAW this PWS.

3.3. Government Property Incidental to the Place of Performance.

3.3.1. None

4. General Information.

4.1. Quality Control.

The contractor is required to control the quality of service delivery and offer to the Government for acceptance only services which conform to contract requirements. The overall control of quality must meet the specified performance thresholds for each requirement in the Services Summary.

4.2. Quality Assurance

The Government shall evaluate the contractor's performance by monitoring the contractor's performance to ensure services are received. The Government shall evaluate the contractor's performance through on-site inspections and receipt of customer complaints. The Government shall inspect each task as completed. The Government shall investigate complaints received from customers. The Government shall make final determination of the validity of customer complaint(s) in cases of disagreement with customer(s). Remedies for non-conforming services shall be resolved IAW the applicable Inspection/Acceptance clause attached within the contract.

4.2.1. The services to be performed by the contractor during the period of this contract shall (at all times and places) be subject to review by the Contracting Officer or authorized representative(s).

4.3. Security Requirements.

The Government shall provide the contractor with access to the buildings necessary to perform the work under this PWS. The contractor shall be subject to all Department of Defense rules and regulations while working on this military installation. The contractor shall provide all necessary personnel information for base access to the Government Project manager at least 14 days prior to beginning work.

4.3.1. **Personnel Information.** The Contractor shall submit a written request on company letterhead to the Project Manager listing the following: contract number, location of work site, start and stop dates, and names of contractor personnel needing access to the base no later than 14 days before beginning work. When reporting to the registration office, the authorized Contractor personnel must provide a valid driver's license for each individual and valid vehicle insurance certificate or rental agreement for each vehicle, to obtain access to the base.

4.3.1. **Anti-Terrorism.** If the Contractor (contract employees/subcontractors) identify any suspicious activity, they shall contact the Base Defense Operations Center (BDOC) at 307-773-3501 (On-installation)/Missile Security Control (MSC) at 307-773-2701 (Off-installation) and notify the CO and COR (if appointed) that they contacted the BDOC and/or MSC.

4.4. Operational Security (OPSEC).

The contractor shall adhere to the following minimum requirements in support of this requirement:

4.4.1. Contractor personnel shall not discuss government operations in public or over unprotected or unencrypted communications. Official Business, controlled unclassified information may only be transmitted as directed in the PWS.

4.4.2. The Contractor shall not post to company websites, publications, newsletters or other media any images, data or information that reveal sensitive government operations, personnel, equipment, and/or classified or controlled unclassified information. When in doubt, company press releases related to this contract should be coordinated through the Project Manager or Contracting Officer, as applicable.

4.4.3. Because observation of events, operations, physical changes, etc. may reveal National Security information, specific restrictions are needed to preclude unintentional release of this information to unauthorized parties. (Unauthorized disclosure and transfer of National Security Information is punishable under 18 USC § 793.) Therefore, contractor personnel shall not disclose to unauthorized third parties, post to unofficial sites (including Social Networking sites) any images, data or information, or observed events that reveal sensitive government operations, personnel, equipment, including, but not limited to:

4.4.3.1. Tactics, techniques and procedures, production or work schedules, any visible or concealed modifications, upgrades, additions to vessels, aircraft, or weapons or equipment; increases, change, or decreases in work/deployment frequency or government personnel, vehicle, vessel or aircraft movements; specialized equipment orders, deliveries, shipments, etc., Unauthorized disclosures and attempts to solicit this type of information by unauthorized third parties or others not affiliated with this contract shall be reported to the Project Manager or Contracting Officer, as applicable.

4.4.3.2. Government issued badges, identification shall be removed and/or concealed from plain sight when off base and shall not be left in vehicles or unprotected. Badges and passes may not be duplicated, copied or loaned to others. Lost or stolen identification badges, vehicle passes etc. shall be immediately reported to the Project Manager, Contracting Officer, and/or installation Security Office.

4.5. Location/Hours of Operation.

4.5.1. **Location.** Place of performance is at FE Warren AFB WY. Telework shall not be permitted for this task order/contract.

4.5.2. **Normal Hours of Operation.** The contractor shall perform the services required under this contract during the normal operating hours of the site. The average workweek consists of 7:00 AM and 4:00 PM (MST), Monday through Friday, excluding holidays and base closures. During the planning phase of the project, the Government shall identify any locations that require installation and cutover after normal business hours to avoid unnecessary operational mission impact. Any site work requested by the Contractor to be performed outside of normal duty hours shall be coordinated with the 90 CS Project Manager and Contracting Officer at least 7 working days in advance. The contractor shall accomplish the installation with minimum disruption of daily resident

4.5.3. **Recognized Holidays.** The contractor is not required to provide service on the following days:

New Year's Day	Labor Day
Martin Luther King Day	Columbus Day
Presidents Day	Veteran's Day
Memorial Day	Thanksgiving Day
Juneteenth	Christmas Day
Independence Day	

If the holiday falls on Saturday, it is observed on Friday. If the holiday falls on a Sunday, it is observed on Monday.

4.6. Conservation of Utilities.

The contractor shall instruct employees in utilities conservation practices. The contractor shall be responsible for operating under conditions which prevent the waste of utilities which include the following:

4.6.1. Lights shall be used only in areas where and when work is actually being performed.

4.6.2. Mechanical equipment controls for heating, ventilation, and air conditioning systems shall not be adjusted by the contractor or by contractor employees unless authorized.

4.6.3. Water faucets or valves shall be turned off after the required use has been accomplished.

4.6.4. Government telephones shall be used only for official Government business.

4.7. Environmental Controls.

4.7.1. **Compliance with Laws and Regulations.** The contractor shall be knowledgeable of and comply with all applicable Interstate, Federal, State, and Local laws, regulations, and requirements regarding environmental protection. In the event environmental laws/regulations change during the term of this contract, the contractor is required to comply as such laws come into effect. If there is an increase or decrease in cost as a result of the change, the contractor shall inform the Contracting Officer pursuant to notice requirements and negotiate a modification to the contract.

4.7.2. **Notification of Environmental Spills.** If the contractor spills or releases any substance contained in 40 CFR 302 into the environment, the contractor or its agent shall immediately report the incident to the F.E. Warren AFB Fire Dept at 911 (landline) or 307-773-2931 (cell phone). The liability for the spill or release of such substances rests solely with the contractor and its agent.

4.7.3. **Hazardous Material (HM).** In the event that hazardous materials shall be used in the execution of this contract, the contractor shall comply with all federal, state and local regulations concerning the use, storage, and reporting of HM in accordance with AFMAN 32-7002, Environmental Compliance and Pollution Prevention. The contractor shall be required to obtain authorization per the Installation Hazardous Materials Management Program before ordering or purchasing any hazardous product and may not bring a HM onto F.E. Warren AFB property, nor use a HM, until the contractor receives all required authorizations. This authorization process may take up to three weeks.

4.7.4. **Green Procurement Program (GPP).** In performance of this contract, contractors shall use Environmental Protection Agency (EPA) designated recycled content products, Information Technology (IT) Energy Star products/appliances, Federal Energy Management Program (FEMP) Designated Energy Efficient Low Stand By Power products/appliances, U.S. Department of Agriculture (USDA) Bio based/Bio preferred products, Environmentally preferable products, Electronic Product Environmental Assessment Tool (EPEAT) registered products, Water Sense or other water efficient products, non- or Low Ozone depleting substances under the Significant New Alternatives Policy (SNAP), non or Low toxic or hazardous constituents (e.g. non-VOC paint) and any other environmentally sustainable product/method, to the greatest extent possible.

4.7.5. Asbestos. Due to the age of the building, the contractor must test for asbestos and lead prior to drilling into the real property. The government shall not provide an asbestos report and it is incumbent upon the contractor to conduct the testing and abatement if required for installation. If the contractor detects asbestos or lead, the contractor must properly abate and dispose of the asbestos/lead (released during any drilling) IAW applicable laws and regulations. When testing, abating, or disposing, the contractor must take the necessary precautions to protect their employees, the public, and building occupants. If desired by the contractor, the contractor can hire a sub-contractor to conduct the asbestos/lead testing and abatement; however, ensuring proper qualifications shall be the responsibility of the contractor.

4.8. Safety Requirements.

4.8.1. In performing work under this contract, the contractor shall:

4.8.1.1. Conform to the safety requirements contained in the contract for all activities related to the accomplishment of the work.

4.8.1.2. Record and report promptly (within one hour), to the project manager or contracting officer, all available facts relating to each instance of damage to Government property or injury to either contractor or Government personnel.

4.8.1.3. In the event of an accident/mishap, take reasonable and prudent action to establish control of the accident/mishap scene, prevent further damage to persons or property, and preserve evidence until released by the accident/mishap investigative authority through the contracting officer.

4.8.2. **Confined Spaces.** If applicable the Contractors entering confined spaces during the execution of this effort are responsible for the safety of their personnel and for their confined space permit program as outlined in DAFMAN 91-203. All confined space operations must be coordinated with the Base Safety Office prior to start of work. The primary Contractor is responsible for all Sub-Contractor confined space operations.

4.9. Contractor Personnel.

4.9.1. **Contract Manager:** The contractor shall provide a contract manager who is knowledgeable of telecommunication cable installations and shall be responsible for the performance of the services. The contract manager must be able to read, write, speak, and understand English.

4.9.1.1 The contract manager shall have full authority to act for the contractor on all contract matters relating to daily operations of this contract.

4.9.1.2 The contract manager shall be available within 24 hours of a request by the Government to meet to discuss problems.

4.9.2. **Contractor Employees:** The contractor shall not employ persons for work on this contract if such employee is a potential threat to the health, safety, security, general wellbeing or operational mission of the installation and its population.

4.9.2.1. The Contractor shall utilize employees who have adequate training, skills, and knowledge to perform the requirements in this PWS.

4.9.2.2. Contractor personnel shall present a neat appearance and be easily recognized as contractor employees. This may be accomplished by wearing distinctive clothing bearing the name of the company or by wearing appropriate badges, which contain the company name and employee name in English. Contractor personnel who interact with Government personnel shall be able to communicate effectively in English.

4.9.2.3. The consumption of alcoholic beverages by Contractor personnel while on duty is strictly forbidden. The use of illegal drugs by Contractor Personnel is strictly forbidden. The Contractor shall immediately remove any personnel who is under the influence of alcohol or drugs.

4.10. **Records.** The contractor shall be responsible for creating, maintaining, and disposing of only those government required records that are specifically cited in this PWS or required by the provisions of a mandatory directive listed in the 90th Telecommunications Installation Criteria Handbook, Applicable Publications and Forms. If requested by the Government, the contractor shall provide the original record, or a reproducible copy of any such record within five working days of receipt of the request.

4.11. **Warranty.**

4.11.1. **Contractor Warranty.** The contractor shall provide a warranty not less than 1-years on all cabling and equipment installed. The Contractor's minimum warranty provisions shall include:

4.9.1.1 Should the failure exceed maintenance support capabilities, the contractor shall complete the corrective action no later than 45 days after being notified of the problem.

4.9.1.2 The corrective action may not include splicing of existing lines. The entire line must be replaced if it is a problem.

4.9.1.3 Provision of all parts and labor shall be at no additional charge to the Government.

5. **Appendices**

A. CAT 6 Wiring, Termination, & Connections

B. Sample Floor Plan W/Cable Numbering

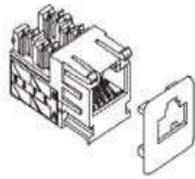
C. Floor Plans

D. References

E. Product Examples

APPENDIX A

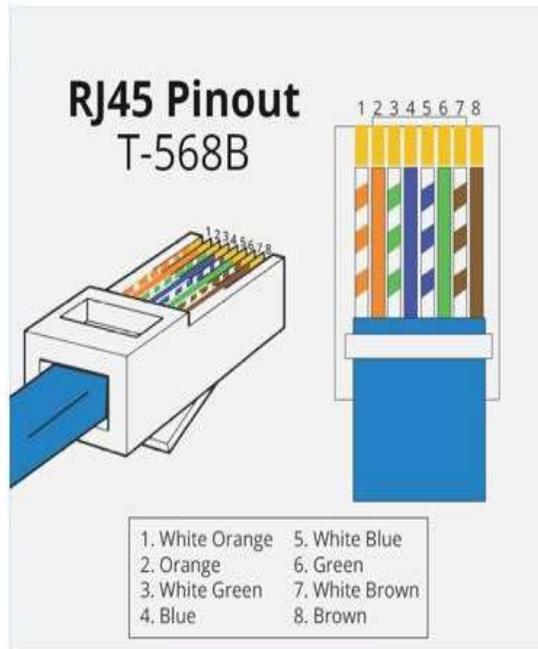
CAT 6 WIRING, TERMINATION & CONNECTIONS



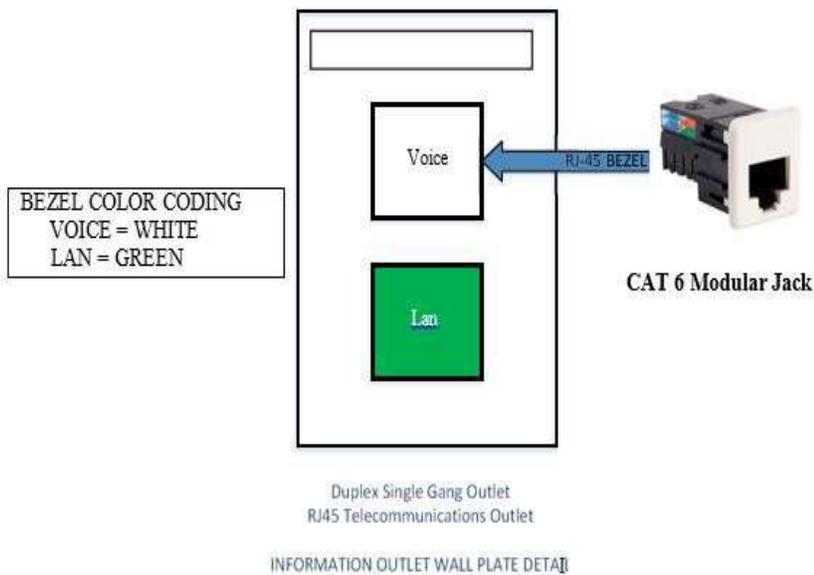
Jack Assembly Detail



CAT 6 Modular Jack

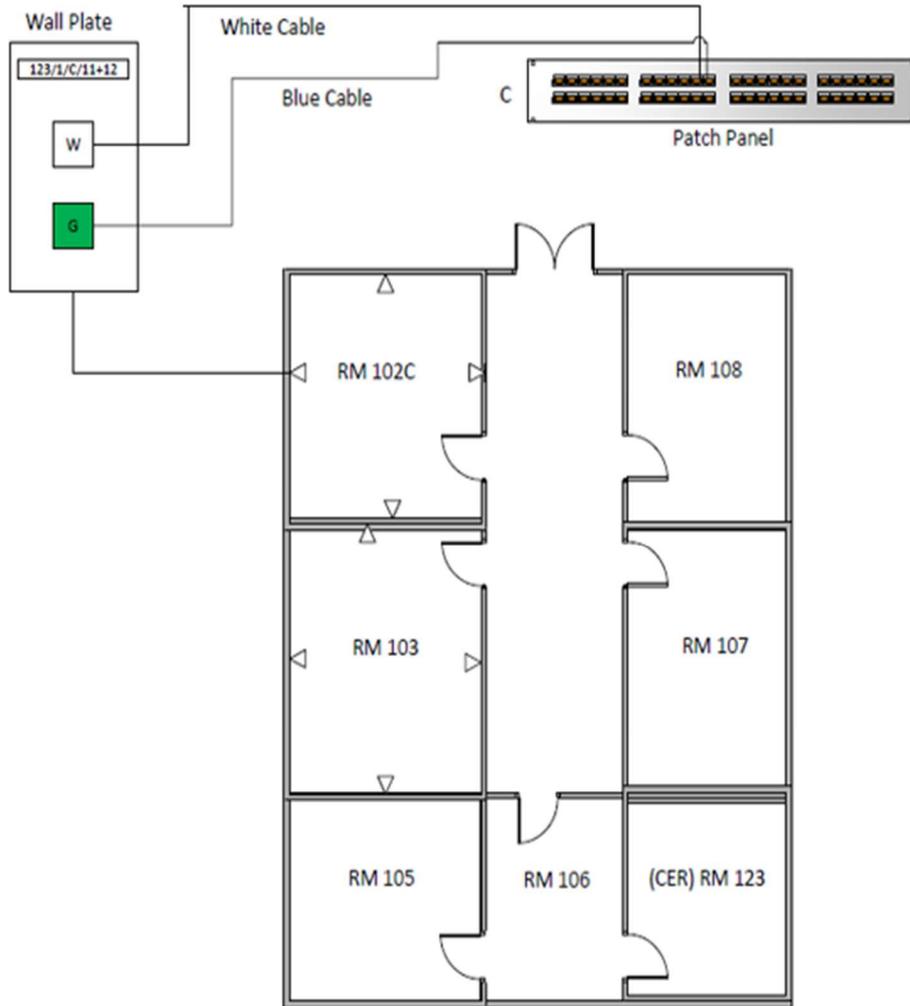


568 B Wiring Pattern



APPENDIX B

SAMPLE FLOOR PLAN W/CABLE NUMBERING



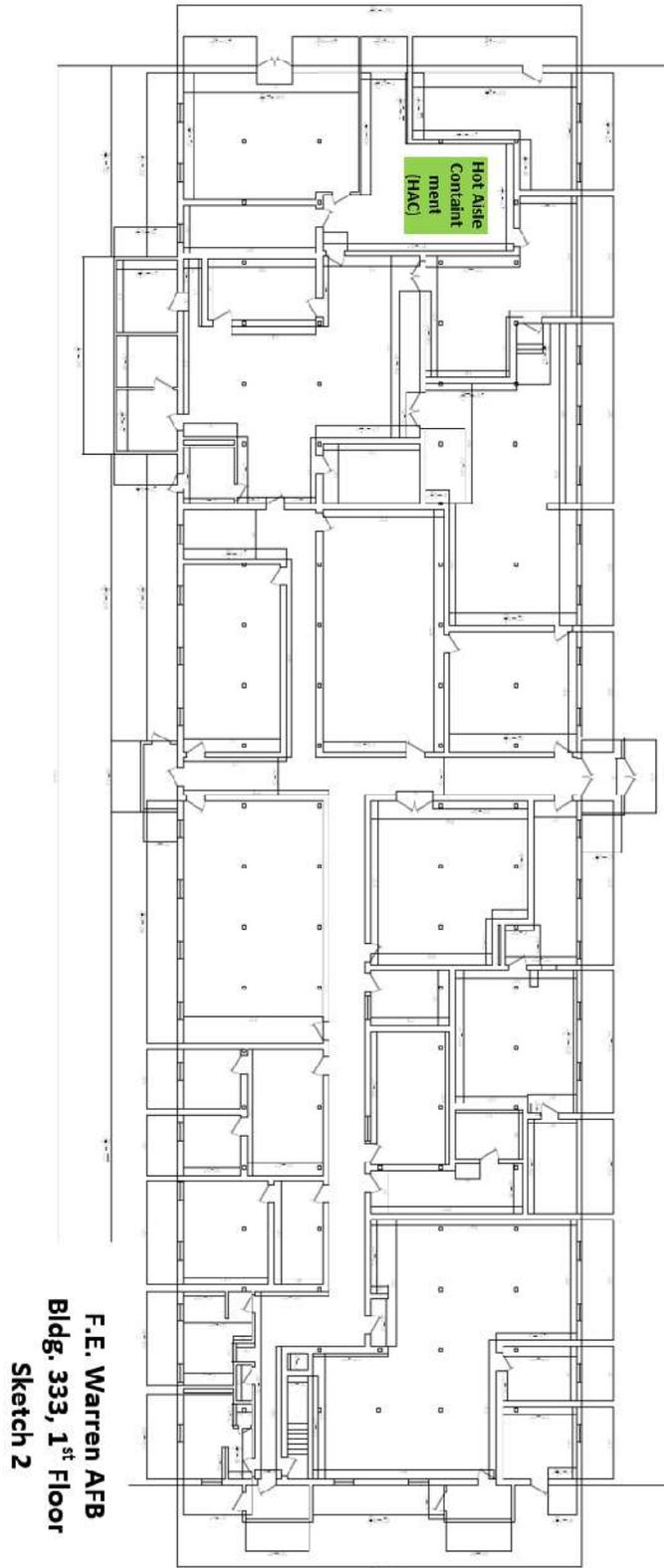
Sample Floor Plan

Mark each cable at each end for cable identification. Label each faceplate with the CER Number, Rack Number, Patch Panel Letter, and Port Number(s): (123/1/C/11+12). Jacks installed on the same faceplate will be punched down and numbered consecutively on the patch panel (11+12). White cable will terminate on a faceplate using a modular jack with a removable white bezel; blue cable on a modular jack with a removable green bezel. Post the drawing with the identification of outlets and room numbers in the CER upon completion.

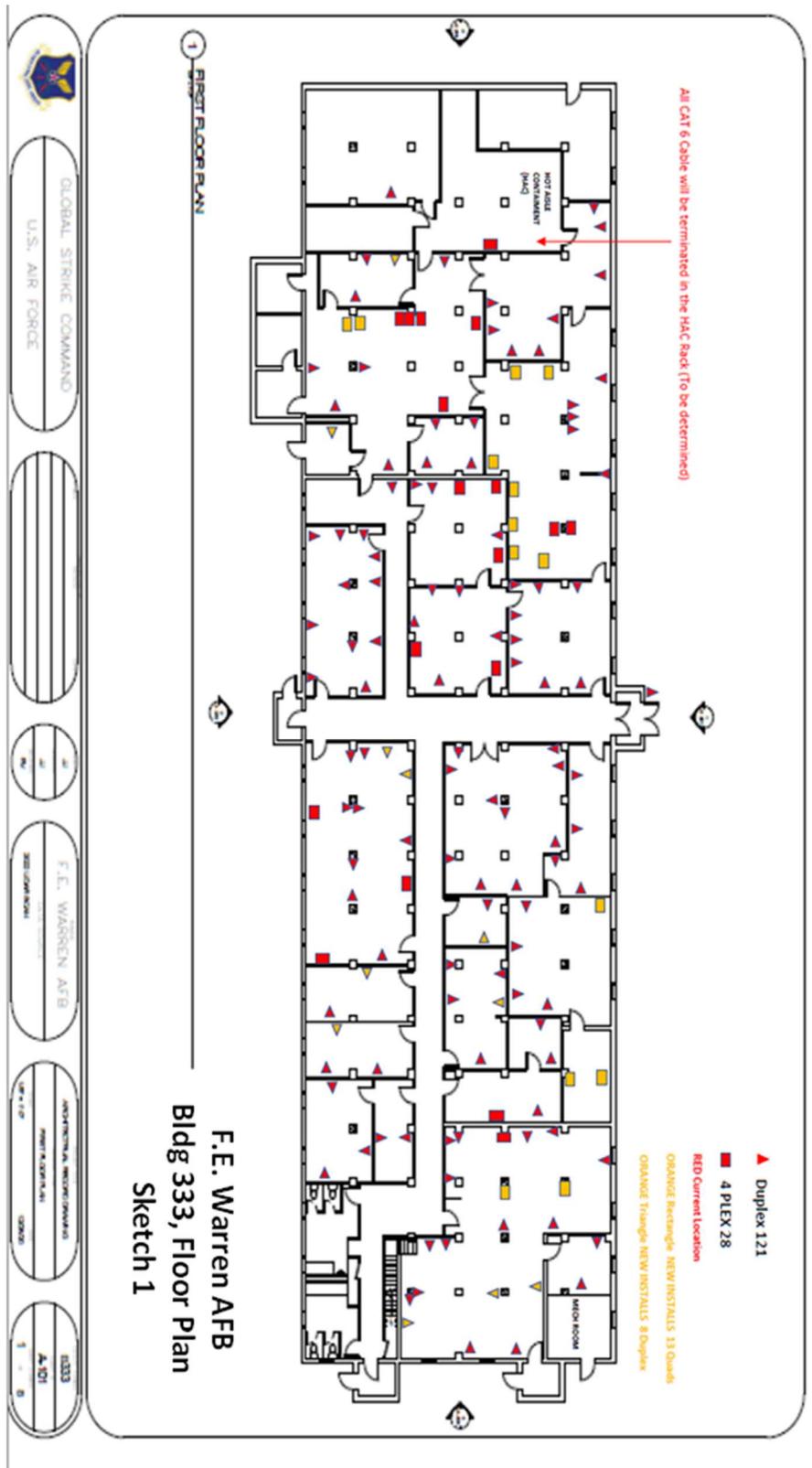
Sample Cable Numbering Plan

APPENDIX C

FLOOR PLANS BUILDING 333



FLOOR PLANS BUILDING 333 with drop locations



APPENDIX D

The following documents are referenced within this document or are hereby recognized as a standard of good practice to be followed during the performance of all work.

National Fire Protection Association
Underwriter's Laboratories
Rural Utility Service

NFPA 70 *National Electrical Code*
UL Standards for CAT 6 UTP Wire
PE-39 *Specifications for Filled Telephone Cable*
PE-80 *Specifications for Gas Tube Surge Arrestors*
PE-89 *Specifications for Filled Telephone Cable with Expanded Insulation*
Uniform Building Code (UBC)

NEMA

Manufacturer's Association
Air Force Documents

AFR 88-15 *Criteria for AF Construction*
AF TB 95-03 *Cabling and Distribution Systems*
AFSSI 7010 *Emission Security Assessment*
AFSSM 7011 *Emission Security Countermeasures Review*
UFC 3-580-01 *Telecommunications Interior Infrastructure Planning and Design*
MIL-HDBK-419A (Vol. 1 & 2) *Grounding, Bonding, and Shielding for Electronic Equipment and Facilities*
MIL-STD-188-124B --- Grounding, Bonding and Shielding for Common Long Haul/Tactical Communications Systems Including Ground Based Communications-Electronics Facilities and Equipment
FAA-STD-019 REV E --- Lighting and Surge Protection, Grounding, Bonding, and Shielding Requirements for Facilities and Electronic Equipment
UL467 --- Grounding & Bonding Equipment

ANSI/TIA Standards

ANSI/TIA-526-7-A Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant, Adoption of IEC 61280-4-2 edition 2: Fiber-Optic Communications Subsystem Test Procedures – Part 4-2: Installed Cable Plant – Single-Mode Attenuation and Optical Return Loss Measurement
ANSI/TIA-526-14-C Optical Power Loss Measurement of Installed Multimode Fiber Cable

Plant; Modification of IEC 61280-4-1 edition 2,
Fiber-Optic Communications Subsystem Test
Procedures- Part 4-1: Installed Cable Plant-
Multimode Attenuation Measurement

ANSI/TIA-568-B *Commercial Building
Telecommunications Cabling Standard*

ANSI/TIA-568-C.O *Generic Telecommunications
Cabling for Customer Premises*

ANSI/TIA-568-C.0-1 *Generic Telecommunications
Cabling for Customer Premises – Addendum 1,
Updated References for Balanced Twisted Pair*

ANSI/TIA-568 *Generic Telecommunications
Cabling for Customers Premises – Addendum 2,
General Updates*

ANSI/TIA-568 *Commercial Building
Telecommunications Cabling Standard*

ANSI/TIA-568 *Commercial Building
Telecommunications Cabling Standard
(Addendum 1 – Pathways and Spaces*

ANSI/TIA -568 *Commercial Building
Telecommunications Cable Standard-Addendum
2, General Updates*

ANSI/TIA-568 *Balanced Twisted
Telecommunications Cabling and Components
Standards*

ANSI/TIA-568-Errata Sheet

ANSI/TIA-568 *Optical Fiber Cabling Components
Standard*

ANSI/TIA-568 *Optical Fiber Cabling Components
Standard – Addendum 1, Addition of OM4 Cabled
Optical Fiber and Array Connectivity*

ANSI/TIA-568 *Broadband Coaxial Cabling and
Components Standards*

ANSI/TIA-569 *Telecommunications Pathways and
Spaces*

ANSI/TIA-569 *Telecommunications pathways and
Spaces Addendum 1 – Revised temperature and
Humidity Requirements for telecommunications
Spaces*

ANSI/TIA-569-Errata Sheet

ANSI/TIA-570 *Residential Telecommunications
Infrastructure Standard*

ANSI/TIA-598-Residential *Telecommunications
Infrastructure Standard*

ANSI/TIA-606 *Administration Standard for
Telecommunications Infrastructure*

ANSI/TIA-606-C-1 *Administration Standard for*

*Telecommunications Infrastructure, Addendum 1
- ????????*

ANSI/TIA-607 *Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises*

ANSI/TIA-607-C-1 *Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises, Addendum 1*

ANSI/TIA-758 *Customer-owned Outside Plant Telecommunications Infrastructure Standard*

ANSI/TIA-942

TSB 36 *Cable Requirements for Digital Systems*

TSB 40 *Termination Components*

TSB 67 *Cable Testing*

SP2840 *CAT 6 Component Specifications*

International Electrical and
Electronics Engineers Association

IEEE 802.6 *MAN System requirements*

IEEE 802.8 *Fiber Optic Advisory Board Standards*

IEEE 802.9 *Integration of Voice and Data Systems*

IEEE 802.10 *LAN Security Measures*

IEEE 802.3U *100BaseT and 100BaseX Standards*

IBC *International Building Code*

BITSEP Handbook

Version 3.0 August 2010

90th Communications Squadron Telecommunications Installation Criteria

Air Force Instructions 91-203 Air Force Consolidated Occupational Safety Instruction

APPENDIX E

90th Communication Squadron has a small supply of Optical Cable Corporation parts to replace damaged jacks, bezels, or faceplates. The table below is a list of manufacturer's part number and is a list of products that meet the product specifications of the PWS and TIC Handbook 2022.

Description	Manufacturer Part Number
Duplex Faceplate / Office White	FPSR0201
Duplex Faceplate / Ivory	FPSR0200
Quad-plex Faceplate / Office White	FPSR0401
Quad-plex Faceplate / Ivory	FPSR0400
Jack UMJ CAT6 568A/B / Office White	UMJA601
Jack UMJ CAT6 568A/B / Green	UMJA604
Jack UMJ CAT6 568A/B / Black	UMJA602D