Performance Work Statement (PWS)
Cat6A LAN Drop/Fiber Installation, Bldg. 15177

Organization:	AFLCMC/EBR
Address:	Bldg. 15177 Eglin AFB, FL 32542

1. **Purpose:**
   The contractor shall Engineer, Furnish, Install and Test (EFI&T) the installation of (48) CAT6A network drops, and (2) 24-strand Multi-Mode (MM) cables in Bldg. 15177.

2. **Specific Task Objectives:**
   2.1. Cat6A Drop Installation Tasks:
   - In comm room 006, install a new 48-port modular patch panel in Rack C utilizing Rack Units (RU) 18/19.
   - Install 40-total Plenum UTP Green CAT6A data cables and jacks from comm room 006 to room 002. Reference drawing T-101.
   - In room 002, install a 48-port modular patch panel on a wall mount bracket as a consolidation point using Green CAT6A jacks.
   - Install 8-total Plenum UTP Green CAT6A data cables and jacks from comm room 006 to room 005. Reference drawing T-101
   - In room 005, install White LD10 Panduit and White deep device boxes for the Green CAT6A jacks. Downward sloped 4-port face plates shall be used.
   - Contractor shall create a 4.5-inch wall penetration and install a 4-inch sleeve from the hallway into comm room 006 above the drop ceiling, and a 4.5-inch wall penetration and 4-inch sleeve from the hallway into room 002. Reference drawing T-101.
   - Contractor shall create a 2.5-inch wall penetration and install a 2-inch sleeve from the hallway into room 005. Reference drawing T-101.
   - Install approx. 65-feet of J-hooks with retaining clips as illustrated in drawing T-101.

- Sleeves or slots shall not be left open except during cable installation and shall be properly fire stopped. All new work area outlets shall have a j-hook placed either above the ceiling or with in close proximity to, and a minimum of 12-inches of slack provided on the j-hook.

2.2. Fiber Optic Tasks:

- In comm room 006, Rack A (FODP 1), install (2) 24-strand MM cables, Aqua color, 1-each 24MM to comm room 202, and comm room 120. Provide/install LC cassettes and terminate the 24MM cables in existing FODP 1. Reference drawing T-201.

- In comm room 120, utilize existing pathways the Green NIPR cables use from comm room 006. Fiber will then be terminated on a NEW wall mounted FODP in the back corner of the room. FODP shall be mounted at a height of 6' from the floor to the bottom of the mount.

- In comm room 202, utilize the existing pathway that Green NIPR cabling takes from comm room 006. The 24-strand fiber will terminate into rack O, installing a NEW FODP on RU 1/2.

- Perform 100% verification acceptance test and provide a test report for multi-mode optical fibers, (all strands) end-to-end and bi-directional attenuation tests IAW OFSTP-14, OFSTP-7, TIA-568-C.3 and TIA-526-7. Installer shall use Tier One Testing using an Optical Power Meter and Light Source for all Inside Plant (ISP) multi-mode optical fibers.

3. General Requirements:

3.1. The contractor shall follow all technical requirements, deliverables, parts and materials, specifications, practices, product specifications, methods and procedures, and guidance contained within the 96th Communications Squadron Cyber Infrastructure Standards and Installation Specifications (CISIS). This includes, but is not limited to;

- **Patch Panels**: IAW CISIS 2.2.9.1
- **Work Area Outlets** (WAO): IAW CISIS 2.2.9.2
- **Horizontal Cable**: IAW CISIS 2.2.9.3
- **Fiber Patch Panels**: IAW CISIS 2.2.10
- **Grounding/Bonding**: IAW CISIS 2.2.11Infrastructure shall be grounded/bonded and labeled IAW TIA 607 and the CISIS.
- **Labeling:** IAW CISIS 2.2.16 Work Area Outlets (WAO), Racks, Cabinets, Cabling, etc shall be labeled IAW TIA-606 and the CISIS.
- **Testing:** Cat6A/Fiber cable shall be tested IAW the CISIS Chapter 3.
- **Test Equipment Calibration:** Test Equipment and Test Reports shall document a calibrations date within 1 year of test date and be IAW the CISIS 3.1.4.
- **Parts and Materials:** IAW CISIS Chapter 4
- **Rack Elevations:** The contractor shall mount equipment (i.e. Patch Panels) IAW the locations specified in the CISIS Attachment D.

3.2. **Product Submittal:** The contractor shall provide with their proposal, a complete list of the products the contractor will provide to satisfy this PWS, to be reviewed by the government as part of the technical evaluation. Provide catalog cuts, illustrations, schedules, diagrams, and/or brochures illustrating the manufacturer, part number, size, physical appearance, and other characteristics of the materials, systems, or equipment to be installed. This shall include, but not be limited to, conduit, duct, innerduct, couplers, handholes, cable, splices, tracers, enclosures, cabinets, connectors, patch panels, etc. Material/Products submitted must be IAW the CISIS Chapter 4.

3.3. The contractor shall provide all tools, installation materials, and test equipment and labor required to perform installation as called for by the PWS.

3.4. Any damage caused by the contractor to existing facilities or equipment during site performance of the PWS will be repaired at the expense of the contractor, unless otherwise directed by the government.

3.5. The contractor shall restore the site to the original condition which existed prior to the install, unless otherwise directed by the government.

4. Deliverables:

4.1. The contractor shall provide ISP/OSP copper/fiber test report(s) and As-Built drawings prior to scheduling a final QC inspection IAW CISIS Chapter 3.

- **Test Results:** The contractor shall provide test reports IAW the CISIS.
- **As-Built Documentation**: The contractor shall provide As-Built documentation IAW the CISIS. Provide soft-copy drawings in .PDF format.

5. **Acceptance Testing and Verification:**

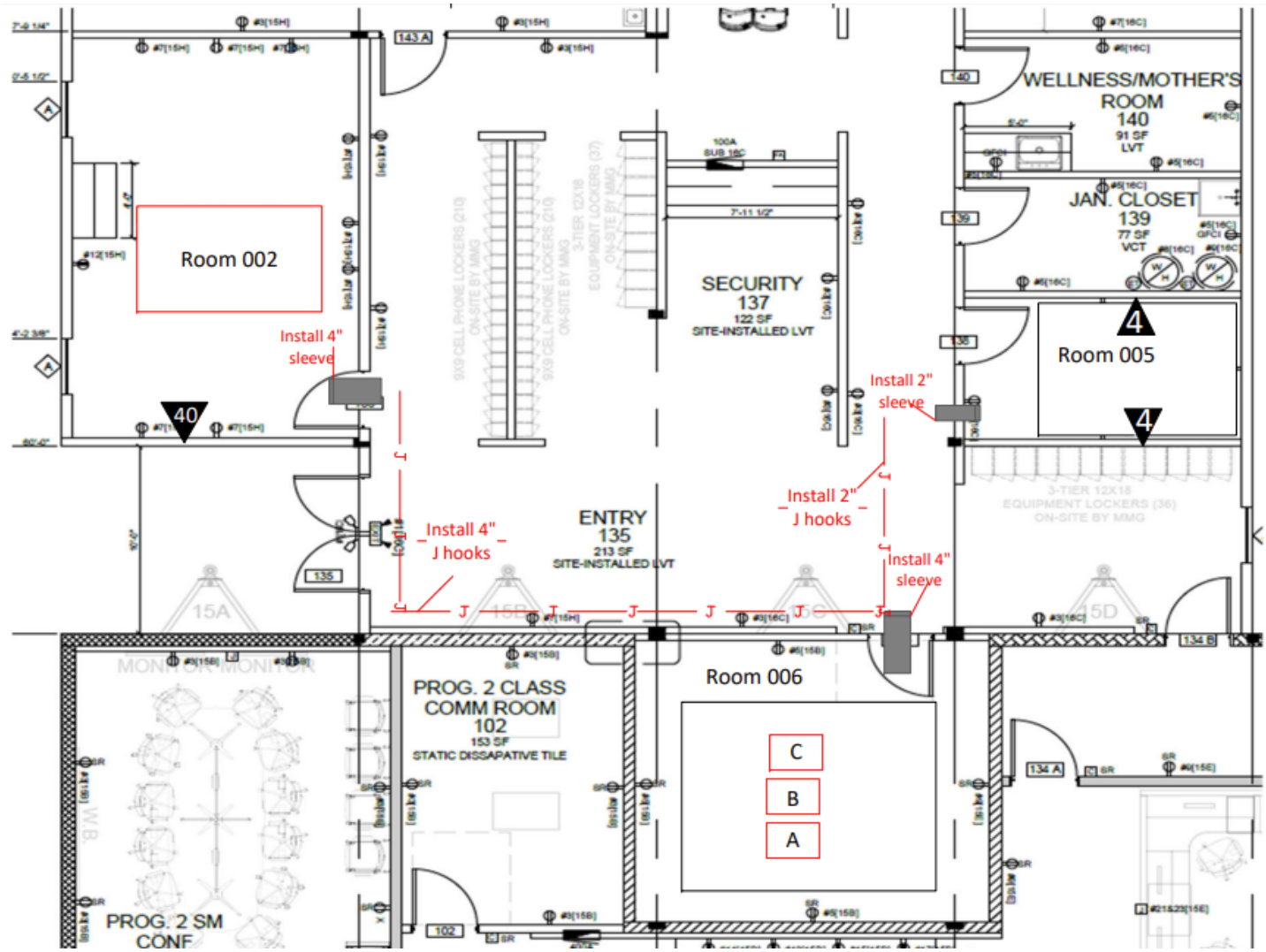
- **Witness Test:** Following the contractor's completion of the installation, Test Result and As-Built review/acceptance by the government, the contractor shall demonstrate acceptable performance of the installed infrastructure in the presence of government representatives. The government will witness the testing of a government selected sample of ten percent (10%) of all installed Cat6A drops and/or fiber optic strands to verify compliance with the required performance specifications. In the event that any tested drop or strand fails to meet the required performance specifications during this witness test, the testing event shall immediately expand from a 10% random sample to a one hundred percent (100%) test of all installed drops and/or strands. The contractor shall correct all discrepancies found during testing.
- **Final QC:** The government will conduct a quality control (QC) inspection of the physical installation and provide the contractor with a list of any noted discrepancies. The contractor shall be responsible for correcting all identified discrepancies within five (5) duty days of notification. A final QC inspection will be conducted by the government to verify that all punch list items have been successfully resolved prior to final acceptance of the work.

6. Applicable Specification and Reference Documents:

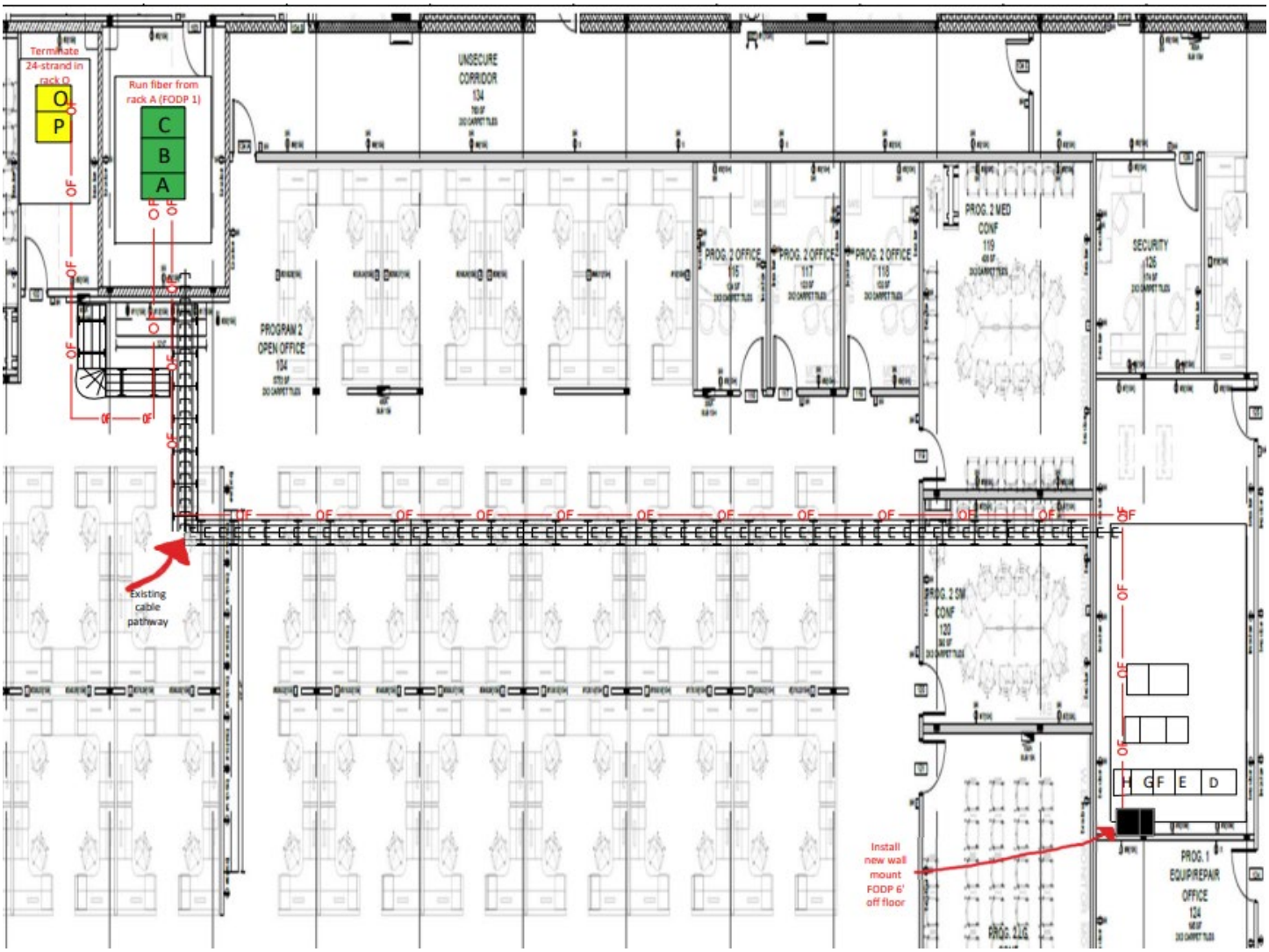
6.1. 96th Communications Squadron Cyber Infrastructure Standards and Installation Specifications, to include Applicable Publications and Standards referenced within, dated May 2025.

Attachment 1

Sheet T-101



Sheet T-201


Terminate 24-strand in rack O
O
P
Run fiber from rack A (FODP 1)
C
B
A
OF
UNSECURE CORRIDOR 134
PROGRAM 2 OPEN OFFICE 134
PROG. 2 OFFICE 115
PROG. 2 OFFICE 117
PROG. 2 OFFICE 118
PROG. 2 MED CONF 119
SECURITY 126
PROG. 2 SM CONF 120
Existing cable pathway
H
G
F
E
D
Install new wall mount FODP 6' off floor
PROG. 1 EQUIP/REPAIR OFFICE 124