

Addendum #1

This Addendum modifies, amends, and supplements designated parts of the Contract Documents, Specifications and Drawings for:

Camp Keyes Training Site Telecom Room Upgrades, Augusta, Maine
Project No. 23SC19-314-D, Bid Number 20-035

Directorate of Facilities Engineering

20 May 2020

It shall be the responsibility of the Contractor to notify all Subcontractors and Suppliers for various portions of the work of any changes or modifications contained in this Addendum.

Specification Items:

1. **Fill in Section 00 41 13, Contractor Bid Form, with Addendum # and Date**
2. **Remove** Section 01 00 00 pages 1 and 2 and **insert** enclosed revised Section 01 00 00 pages 1 and 2.
Changes include: 1.01.C Work Sequence: 1. “Renovations in Building 7 and 15 shall be Substantially Complete on July 10 so personnel can move into the surrounding spaces.”
3. **Remove** Section 01 10 34 in its entirety and **insert** enclosed Revised Section 01 10 34
Changes include:
Door Trim: Addition of “Handles: provide 2 steel handles for manual closing of door, similar to the handles installed on the existing door, to aid in closing during wind events.”
EMT Conduit: All references to “rigid” EMT have been changed to “non-flexible”

Drawing Items:

1. Sheet DFE-03: Addition of notes for data drops in Room 103
 - a. Remove drawing and replace with attached updated drawing.

Clarification Items:

1. Pre-bid Notes, Q&A and Clarifications are attached.

SECTION 01 00 00

ADMINISTRATIVE PROVISIONS

PART 1 GENERAL

1.01 CONTRACT REQUIREMENTS

A. Scope of Work

1. The Work of the Contract includes the upgrade of multiple telecommunications rooms in multiple buildings at the Camp Keyes campus in Augusta Maine. The work of this contract will be in Buildings 5, 7, 14, 15, and 34. The upgrades will include building facility upgrades and technology upgrades to meet current UFC requirements for telecommunication rooms. The work specific to each space shall be in accordance with General Requirements for each building which is detailed in Division 01.

B. Contract Method

1. Basis of award of this Contract will be in accordance with Section 1 Instructions to Bidder, Paragraph 2.
2. Contract type: State of Maine – Bureau of General Services, Construction Contract, Section 00 52 13.
3. The project will be constructed under a single lump sum contract with allowances.

C. Work Sequence

1. Renovations in Building 7 and 15 shall be Substantially Complete on July 10 so personnel can move into the surrounding spaces.
2. All other work of the Contract and related provisions are as described in the Contract Documents.

D. Contractor Use of Premises

1. Work of this Contract includes coordinating the work with the daily operations of the Owner and personnel.
2. Limit use of premises for Work and construction operations only, allow for Owner occupancy, work by other Contractors, and public access.
3. Federal Holiday Schedule. The Contractor may not work on Federal Holidays (May 25 and July 3) unless with permission from Owner.
4. Limit access to Owner's site, hours of operations are 8:00 A.M. - 4:30 P.M. M-F. If Contractor would like to work on a weekend, federal, or state holiday they must request permission from Owner three (3) working days in advance. The Owner reserves the right to accept or reject Contractor's

request.

5. The Contractor must work with Owner to gain access to certain areas through-out the building. When the Contractor needs to gain access to certain areas, he must notify Owner three (3) working days in advance.
6. Coordinate use of premises under direction of Owner.
7. The Contractor shall be responsible for his/her security in Construction Areas until Substantial Completion of each space. The contractor shall coordinate security of Buildings with Owner.

E. Owner Occupancy

1. Owner will occupy surrounding areas during entire period of construction, to conduct Owner's normal operations. Some buildings may be without personnel during certain construction activities. The Contractor shall cooperate with Owner to minimize conflict to the Owner's operations.
2. Telecommunications systems shall be unavailable to personnel for the shortest duration possible during construction operations, coordinate closely at each site with Owner.

F. Owner-furnished Products: Not Used

G. Schedule of Allowances:

1. Replacement of existing data cabling that fails testing. Reimbursement will be made from the Contract Allowance and paid as unit price per cable run as specified in the contract documents.

H. Additive Alternate: Not Used

I. Unit Prices: Not Used

J. Applications for Payment:

1. Submit one (1) copy of each application under procedures of 00 72 13 Section 32, and on "Requisition for Payment", Section 00 62 76, BREM revised 24 May 2019.

K. Coordination:

1. Work of this Contract includes coordination of the entire Work of the Project.
2. The Contractor shall obtain and pay for all necessary construction/building permits. The Contractor shall send (two) copies of all permits to the Owner.
3. Coordinate work with all utilities. Interruption of services shall be coordinated with Owner to minimize the disruption of operations within the facility.

01 10 34
Building 34 – General Requirements

Telecom Room Location: Building 34, Camp Keyes, 194 Winthrop Street, Augusta

Existing Conditions: The telecom rack is located in the corner of an office with open access. Two network switches and a patch panel are mounted horizontally on a wall bracket with no service loop. One is attached to the DoD Network and with 48 slots serving outlets in the building, the other brings in an outside network and has 4-8 outlet connections. All the equipment must be relocated to a secure room to comply with DoD UFC requirements. The secure room has an outdated cypher lock on a building interior door and a metal double door on the exterior which has reached the end of its useful life. The exterior double door was installed within a masonry wall which is CMU on the interior and brick on the exterior.

Scope of work:

Work includes relocation and installation of all telecom equipment in the corner of Room 102 to an existing rack in a secure room in the building. Cabling from all wall jacks serviced by the existing equipment shall be removed and 2 lines will be run from the wall outlet to the new patch panel location. Existing wall outlets (approx. 15) and pass through boxes (approx. 4) shall be replaced with a single gang 4 position modular faceplate with 1 voice and 1 data terminated with RJ-45 jacks and 2 blanks. New data points (approx. 9) shall be installed in the building with the same faceplate and 1V/1D in each. Work also includes removal of existing equipment, wall brackets and supports in Room 102, including restoration of the wall and ceiling tiles to like new condition.

Work also includes the replacement of the server room's cypher lock on the interior room door and the complete replacement of the exterior steel double door. See provided design plan labeled "Telecom Room Renovations, Building 34/39, MEARNG Print Plant, Sheet DFE-03" dated 3 April 2020 for more information.

Installation to be completed per the following direction.

Guidelines: All work will be done in accordance with the guidelines set by DOD UFC 3-580-01.

Where Owner's Basis of Design (BOD) is listed, provide same or equal

- Room Walls:
 - Patch and paint damaged walls to provide a professional finish.
 - Paint shall match existing color and finish. Historically MEARNG has used Sherwin-Williams Alabaster White with an eggshell finish.
- Cypher lock: Provide and install a Corbin Russwin, ASSA ABLOY, ML20834 series AC2 mortise lock, model M800 with 100 user keypad, with an interchangeable cylinder(IC) and no deadbolt. Contractor to coordinate IC with MEARNG Locksmith. Coordinate with Owner for access to room for installation.

- **Doors:** Provide exterior metal double doors with a min. of 1-hr fire rating. Exterior door masonry opening is approximately 6'4"W x 7'4.5"H. Doors shall be provided with a removable locking mullion, door sill, sweeps, lockable crash bars, closers, and locking cylinders. Owner will provide lock core.
- **Door closer:** Unless otherwise specified, provide door closers certified to ANSI/BHMA A156.4 Grade 1 requirements by a BHMA certified independent testing laboratory. Surface mounted mechanical closers shall be certified to exceed ten million (10,000,000) full load cycles by a recognized independent testing laboratory. Closers shall be ISO 9000 certified. Units shall be stamped with date of manufacture code.
 - Door closers shall be installed in accordance with the manufacturer's instructions and shall be carefully installed on each door at the maximum degree of opening allowed by the installation. Arm position shall be as shown on the instruction sheets.
 - Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder, and shall utilize full complement bearings at shaft. Cylinder body shall be 1-1/2 inch diameter, and double heat-treated pinion journal shall be 11/16 inch diameter.
 - Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force as required by accessibility codes and standards. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed, and backcheck. Contractor to make all necessary adjustments to provide smooth continuous closing action without slamming.
 - All closers to be mounted using factory SNBs (sex nuts and bolts) and shall not incorporate Pressure Relief Valve (PRV) technology.
 - Contractor to provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other finish hardware items interfering with closer mounting.
 - Mount closers on inside of exterior doors.
 - Provide closers with hold open feature.
 - Closers shall receive full covers with metal, non-painted, plated finish.
 - BOD: Corbin Russwin – Assa Abloy, Berlin, Connecticut. Model DC3000 Series or LCN – Allegion (Carmel, Indiana) 4000 Series.
- **Door locksets:** Provide cylinders to receive SFIC cores in all panic hardware and mullion locks..
 - BOD: Stanley – Best Access System (New Britain, CT) or Marks USA (Amityville, NY)
- **Door Cylinders:** Provide cylinders to receive SFIC cores in all panic hardware and mullion locksets.
 - All cylinders shall receive 7-pin, "Figure 8" interchangeable cores, same as Stanley Best Access System.
 - Cylinders shall match finish of mortise or cylindrical locksets.
 - BOD: General Lock (San Diego, CA) and Stanley Best (New Britain, CT).
- **Door trim:** Provide panic hardware, locking mullion, weatherstrip and seal moldings.
 - Exit Device (panic hardware)
 - Exit devices shall be touchpad type, fabricated of stainless steel, or aluminum, plated to the standard architectural finishes to match the balance of the door hardware.
 - Touchpad shall extend a minimum of one half of the door width. Touch-pad finish shall be compatible to exit device finish. Compression springs will be used in devices, latches, and outside trims or controls, tension springs also acceptable.

- Devices to incorporate a deadlatching feature.
 - Provide manufacturer's standard strikes.
 - Provide exit devices cut to door width and height. Locate exit devices at a height recommended by the exit device manufacturer and approved by the Owner.
 - Mechanism case shall sit flush on the face of all flush doors, or spacers shall be furnished to fill gaps behind devices.
 - Field drill weep holes per manufacturer's recommendation for exit devices used in exterior applications.
 - Exit devices for fire rated openings shall be UL labeled fire exit hardware.
 - Lockset and latching mechanism shall be carefully installed so as to permit operation without friction or binding. Door function shall be "Exit Only"
 - Finish: Clear anodized aluminum body with Satin Chrome touch bar.
 - BOD: Corbin Russwin (Berlin, Connecticut) ED 5200 Series.
 - Mullion:
 - Removable mullions shall be a 2 inches x 3 inches steel tube. Mullions shall be of a type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
 - Provide mullion systems with a Storage Kit.
 - Mullions shall be provided with spacers and all accessories required for a complete installation.
 - BOD: Corbin Russwin (Berlin, Connecticut)
 - Weatherstrip and seal molding finish: aluminum with mill finish
 - Handles: provide 2 steel handles for manual closing of door, similar to the handles installed on the existing door, to aid in closing during wind events.
- Raceways: Shall be EMT conduit when located in walls or above ceiling, wire basket cable tray when multiple line raceway located above ceilings, or ladder cable trays when multiple line raceway located within telecom rooms below the ceiling.
 - EMT Conduit, non-flexible: Install in walls or spaces above the ceiling.
 - Must comply with ANSI C80.3 and UL 797
 - Fittings to comply with NEMA FB 1 and UL 514B. Fittings shall be set screw or compression type and material to be steel or die cast.
 - Conduit size: 3/4" for electrical wiring and a minimum of 1" for data/telecom cabling
 - Fill ratio maximum of 50%
 - Surface mounted EMT in unfinished spaces to be galvanized steel with snap-on covers complying with UL 5.
 - Color coded to identify electrical or communications per "MEARNG Conduit and Junction Box Color Coding"
 - BOD: Allied Tube and Conduit, True Color EMT
 - EMT Conduit, flexible: May be used for installation of cabling in vertical walls when using non-flexible EMT is not practical. Install non-flexible above ceilings and use flexible from top of wall/end of non-flexible to outlet. Shall be used during installation of floor boxes or ceiling lights (from J-box to fixture). Flexible cables shall not be longer than 10'.
 - HDPE Interduct, flexible: Shall only be used during installation of fiber optic cable.
 - Install to protect Fiber optic cable within building spaces

- Provide HDPE ribbed type in colors per 3-580-01 Sect 2-6.1.3
 - OM1 and OM2 type color shall be orange
 - OS1 type color shall be yellow
- Cable Trays: Use wire basket cable trays in spaces above the ceiling and use ladder type cable trays in spaces below the ceiling or inside telecom rooms with open ceiling.
 - Provide Cable Trays and Accessories identified and defined in NFPA 70, marked for intended location, application, and grounding. Obtain cable trays and components from a single manufacturer.
 - Wire Basket Cable Trays: for above ceiling
 - High-strength-steel longitudinal wires with no bends formed into a standard 2-by-4-inch wire mesh pattern with intersecting wires welded together. Mesh sections must have at least one bottom longitudinal wire along entire length of section.
 - Wire ends along wire-basket sides (flanges) rounded during manufacturing to maintain integrity of cables and installer safety.
 - Basket depth to be 6-inch cable loading depth by 12 inches wide.
 - Connector assemblies: Bolt welded to plate shaped to fit around adjoining tray wires and mating plate. Mechanically joins adjacent tray wires to splice sections together or to create horizontal fittings. Splices located within support span shall not diminish rated loading capacity of cable tray.
 - Hardware and fasteners shall be steel, zinc plated according to ASTM B 633.
 - BOD for tray and components: Chatsworth Pemsu Rejibanc Wire Mesh Cable Tray
 - Ladder Cable Trays: for below ceiling and in open spaces
 - Install new cable raceway and all necessary accessories above the rack or cabinet, providing at least 1' of clear vertical space between top of raceway and ceiling or bottom of obstructions that may hang below ceiling.
 - Configured with two I-Beam side rails with transverse rungs, spaced 9-inches on center, welded to side rails. Finish to be black powder coated.
 - Class Designation: Comply with NEMA VE 1, Class 12C.
 - Minimum Cable-Bearing Surface for Rungs shall be 7/8-inch width with radius edges and no portion of the rungs shall protrude below the bottom plane of side rails.
 - Each rung shall be capable of supporting a maximum cable load, with a safety factor of 1.5, plus a 200-lb concentrated load, when tested according to NEMA VE 1. Minimum usable load depth shall be 3 inches.
 - Splice Plate Capacity: Splices located within support span shall not diminish rated loading capacity of cable tray. Straight section lengths shall be 10 feet except where shorter lengths are required to facilitate tray assembly. Width shall be 12 inches with minimum fitting radius of 12 inches.
 - Splicing Assemblies shall be bolted type using serrated flange locknuts.
 - Hardware and Fasteners shall be steel, zinc plated IAW ASTM B 633.
 - BOD of tray and components: Chatsworth 11275-712(ladder)
 - Install cable trays with a minimum 12-inch workspace from top of tray to overhead obstructions to permit access for installing cables.
 - Provide with a cable fill depth maximum of 6" and fill ratio maximum of 50%

- Cable Tray accessories like tees, crosses, risers, elbows, and other fittings as indicated shall be of same materials and finishes as cable tray.
 - Cable tray supports and connectors, including bonding jumpers, as recommended by cable tray manufacturer.
 - Install cable trays as a complete system, including fasteners, hold-down clips, support systems, adjustable horizontal and vertical splice plates, elbows, reducers, tees, crosses, cable dropouts, adapters, covers, and bonding.
 - Install cable trays so that the tray is accessible for cable installation and all splices are accessible for inspection and adjustment. Remove burrs and sharp edges from cable trays.
 - Design fasteners and supports to carry cable tray, the cables, and a concentrated load of 200 lb load. Install intermediate supports when cable weight exceeds the load-carrying capacity of the tray rungs.
 - Construct supports from channel members, threaded rods, and other appurtenances furnished by cable tray manufacturer. Arrange supports in trapeze or wall-bracket form as required by application. Support bus assembly to prevent twisting from eccentric loading
 - Locate and install supports according to NEMA VE 2. Do not install more than one cable tray splice between supports. Support wire-basket cable trays with center support hangers and wall brackets.
 - Make cable tray connections and changes in direction and elevation using manufacturer's recommended fittings.
 - Seal penetrations through fire and smoke barriers.
 - Bond all cable tray sections to a grounding busbar, according to NFPA 70.
 - Cable trays with communications cable or control conductors shall be bonded together with splice plates listed for grounding purposes or with listed bonding jumpers.
- Cable strain relief: provide strain relief in areas where cables change distribution method, from conduit to ladder, and from ladder to vertical rack. For ladder to vertical rack use a spillway BOD: Chatsworth 14304-712
 - Cable installation and testing:
 - All existing horizontal cabling will be relocated from the current wall mount rack to an existing standing rack.
 - All horizontal cables (existing or new) will need to be managed in ladder tray to provide a neat and orderly appearance inside the telecommunication room. When possible horizontal cable slack/service loops will be retained.
 - All new and existing cable labeling will comply with UFC 3-580-01 and TIA/EIA standards.
 - All new and existing Cat 5, Cat 5e, and Cat6 cables will be tested and certified for their category rating. Tests shall include continuity, cable length, and time domain reflectometry (TDR).
 - If specific cables are damaged, fail testing, or cannot reach the new frame they will be rerun and considered a new cable run.
 - Newly installed cables that fail testing will be removed and new installed at the Contractors cost. Existing cabling that fails testing will be removed and new cabling installed. Contractor will be compensated for work from an Allowance and paid based on a unit price per cable replacement.
 - All telecom tests shall be submitted to Owner for review and approval.

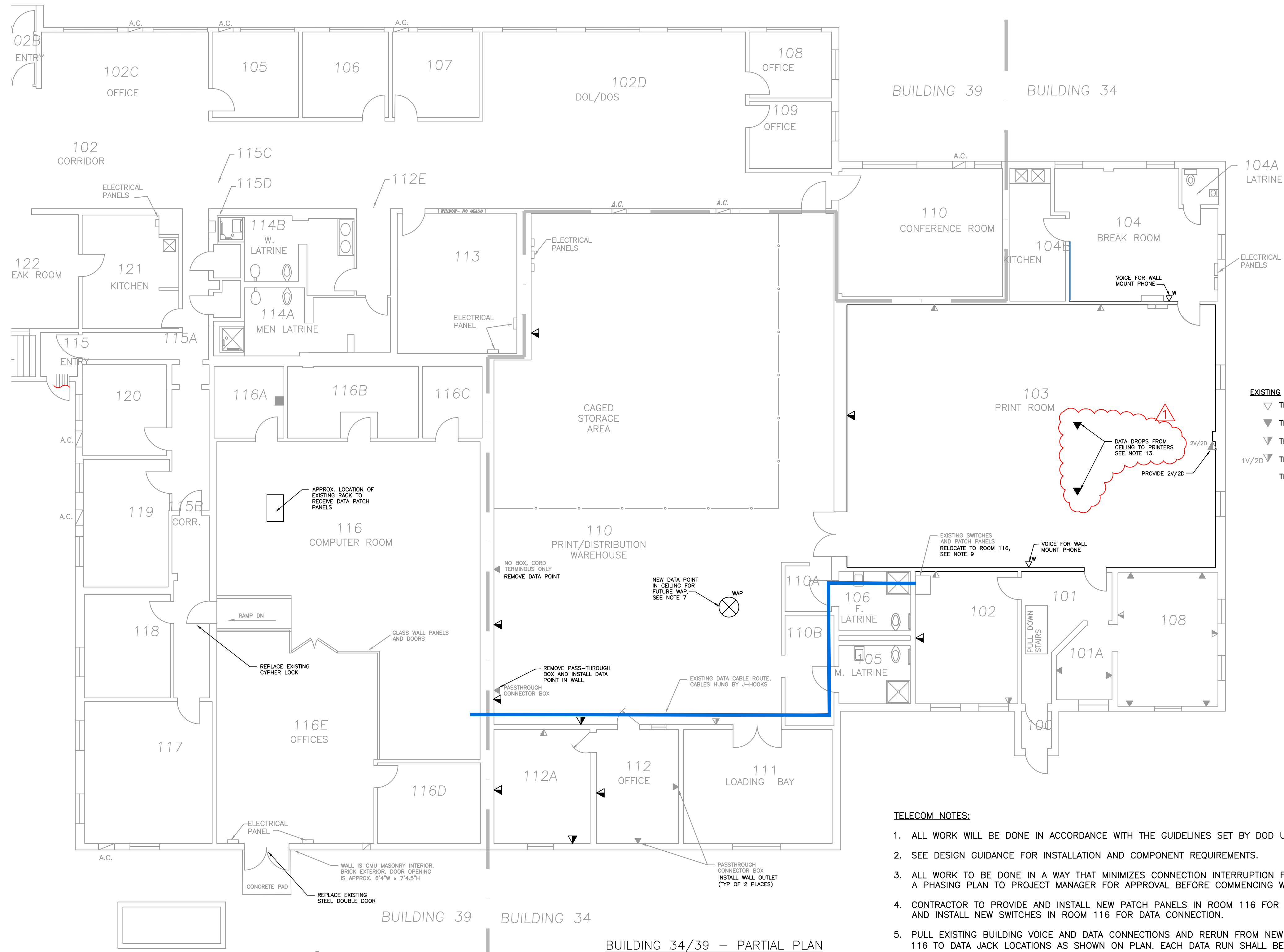
- New Cabling: CAT 6 Twisted Pair
 - Contractor to provide Cat6 cable, blue for designated data cables and green for designated voice cables.
 - CAT 6 shall be Four-pair, balanced-twisted pair cable, covered with a thermoplastic jacket, certified to meet transmission characteristics of Category 6 cable at frequencies up to 250MHz and Comply with NEMA WC 66/ICEA S-116-732 and TIA-568-D.2.
 - Conductors shall be 100-ohm, 23 AWG solid copper with a cable rating of Communication, General Purpose Type CM or CMG.
 - Cabling installer must have personnel certified by BICSI on staff. Installation shall be under direct supervision of Installer 2, Copper or Fiber, who shall be present at all times when Work is performed.
 - All Cabling shall be contained in a Raceway (cable tray or conduit) to provide a neat and orderly appearance.
 - Minimum allowable horizontal cable length shall be 295 feet, not including the 16 feet to the workstation equipment or in the rack horizontal cross connect.
 - Provide a 10' service loop in telecom room at rack or on ladder cable tray when installing new wiring, otherwise provide the maximum loop possible.
 - All cable ends shall be labeled during installation.
 - Install cables only when each cable tray run has been completed and inspected.
 - Fasten cables on horizontal runs with cable clamps or cable ties according to NEMA VE 2. Tighten clamps only enough to secure the cable, without indenting the cable jacket. Install cable ties with a tool that includes an automatic pressure-limiting device.
 - Fasten cables on vertical runs to cable trays every 18 inches.
 - Fasten and support cables that pass from one cable tray to another or drop from cable trays to equipment enclosures. Fasten cables to the cable tray at the point of exit and support cables independent of the enclosure. The cable length between cable trays or between cable tray and enclosure shall be no more than 72 inches

- Cable Hardware: designed to connect, splice and terminate pair copper communications cable.
 - Hardware shall comply with requirements for Category 6, and TIA-568-D.2, IDC type, with modules designed for punch-down caps and tools.
 - Cables shall be terminated with connecting hardware of same category or higher.
 - Jacks and Jack assemblies shall be 100-ohm, balanced, color-coded to match cabling, eight position modular receptacle units with integral IDC-type terminals.

- Cable terminations:
 - Rack: Terminate cable runs using a T568B termination configuration in new CAT 6 compatible rear mounted 110 patch panels separated for designated voice and data.
 - Workstation: At the user end provide a single gang, four position, and modular faceplate and jacks for each outlet with two RJ-45 modular jacks(color to match cables) and two blanks for future.
 - Label each data cable on both ends with line delineation with durable wire markers or tags.
 - Unless otherwise directed by Owner, faceplates shall be 0.035-inch thick satin finished Type 302 stainless steel. Plates not available with stainless finish shall be provided as stainless steel with white baked enamel finish. Secure with screws with head color to match plate finish
 - Patch panels and faceplates shall be labeled per UFC 3-580-01 and TIA/EIA standards.

- Label each faceplate with data jack delineation to match rack port label. Use hot, stamped, or engraved machine printing with black-filled lettering on face of plate
- Patch Panels: Modular 110 panels housing numbered jack units with CAT 6 compatible IDC-type connectors at each jack for permanent termination of pair groups of installed cables.
 - Shall be constructed of 16-gauge steel and mountable on 19-inch (475 mm) equipment racks.
 - Shall have Universal T568A and T568B wiring labels to label areas adjacent to conductors.
 - Shall have replaceable connectors and contain 48 ports.
 - Number of Jacks per Field: One for each four-pair conductor group of indicated cables, plus 100 percent spare positions.
 - The 110 panels must be separated for designated voice and data
 - BOD: Hubbell 48 port, 2U high HP648
- Patch Cords: Factory-made, four pair cables, blue, in 60-inch or 84-inch lengths (half of each length) terminated with an eight-position modular plug in each end.
 - Cords shall have bend-relief-compliant boots and color coded icons to ensure Category 6 performance.
 - Patch cords shall have latch guards to protect against snagging.
- Telecom Rack and cable tray system Testing and inspection:
 - After installing cable trays and after electrical circuitry has been energized, survey for compliance with requirements.
 - Visually inspect cable insulation for damage. Correct sharp corners, protuberances in cable trays, vibrations, and thermal expansion and contraction conditions, which may cause or have caused damage.
 - Verify strain relief is provided in areas where cables change distribution method, from conduit to ladder, and from ladder to vertical rack. For ladder to vertical rack use a spillway. Verify cable sweeps are adequate to prevent damage at cables radii.
 - Verify that the number, size, and voltage of cables in cable trays do not exceed that permitted by NFPA 70. Verify that communications or data-processing circuits are separated from power circuits by barriers or are installed in separate cable trays.
 - Verify that there are no intruding items such as pipes, hangers, or other equipment in the cable tray.
 - Remove dust deposits, industrial process materials, trash of any description, and any blockage of tray ventilation.
 - Visually inspect each cable tray joint and each ground connection for mechanical continuity. Check bolted connections between sections for corrosion. Clean and retorque in suspect areas.
 - Check for improperly sized or installed bonding jumpers.
 - Check for missing, incorrect, or damaged bolts, bolt heads, or nuts. When found, replace with specified hardware.

Z:\2019\SC - Service Construction (300 Series)\235C19-314 - CKeyas Telecom Upgrades (5,7,14,15,34)\Construction\Bid Docs\Design Drawings\2020\04\27 BLDG 34&39 Telecom.dwg, Layout1, 5/19/2020 4:41:27 PM, doriene.ashbrook



LEGEND

EXISTING	PROPOSED
▽ TELECOM OUTLET (VOICE ONLY)	▽
▽ TELECOM OUTLET (DATA ONLY)	▽
▽ TELECOM OUTLET 1V/1D	▽
1V/2D TELECOM OUTLET MULTIPLE V/D	▽ 1V/2D
TELECOM VOICE WALL PHONE OUTLET	▽ W

BUILDING 34/39 - PARTIAL PLAN
SCALE: 1/8" = 1'-0"

TELECOM NOTES:

- ALL WORK WILL BE DONE IN ACCORDANCE WITH THE GUIDELINES SET BY DOD UFC 3-580-01.
- SEE DESIGN GUIDANCE FOR INSTALLATION AND COMPONENT REQUIREMENTS.
- ALL WORK TO BE DONE IN A WAY THAT MINIMIZES CONNECTION INTERRUPTION FOR BUILDING PERSONNEL. PROVIDE A PHASING PLAN TO PROJECT MANAGER FOR APPROVAL BEFORE COMMENCING WORK.
- CONTRACTOR TO PROVIDE AND INSTALL NEW PATCH PANELS IN ROOM 116 FOR CONNECTIONS. OWNER TO PROVIDE AND INSTALL NEW SWITCHES IN ROOM 116 FOR DATA CONNECTION.
- PULL EXISTING BUILDING VOICE AND DATA CONNECTIONS AND RERUN FROM NEW PATCH PANEL LOCATION IN ROOM 116 TO DATA JACK LOCATIONS AS SHOWN ON PLAN. EACH DATA RUN SHALL BE 1V/1D UNLESS OTHERWISE NOTED. REPLACE ALL EXISTING WALL OUTLETS TO REMAIN WITH 4 POSITION OUTLETS. SEE DESIGN GUIDANCE.
- INSTALL NEW DATA RUNS FROM NEW PATCH PANEL LOCATION IN ROOM 116 TO DATA JACK LOCATIONS AS SHOWN ON PLAN. EACH DATA RUN SHALL BE 1V/1D UNLESS OTHERWISE NOTED, ALL NEW WALL OUTLETS SHALL BE 4 POSITION OUTLETS, SEE DESIGN GUIDANCE.
- WAP CONNECTION POINT SHALL BE A SINGLE CAT 6 DATA LINE. PROVIDE CABLING TO A SINGLE GANG BOX MOUNTED IN CEILING WITH A SINGLE RJ-45 OUTLET AND FACEPLATE.
- ALL FACEPLATES SHALL MATCH TYPE AND COLOR OF THE REST OF THE WORK. LABEL DATA FACEPLATES WITH CIRCUIT IDENTIFICATION USING LABEL MAKER.
- PROVIDE AND INSTALL HORIZONTAL AND VERTICAL RACEWAYS FOR ALL CABLING. J-HOOKS ARE NOT ACCEPTABLE, SEE DESIGN GUIDELINES. INSTALLATION OF FLEXIBLE EMT IS PERMITTED IN THE VERTICAL WALLS WHEN INSTALLING RIGID EMT IS NOT PRACTICAL.
- REMOVE AND RELOCATE EXISTING WALL RACK AND EQUIPMENT. REPAIR, PATCH, PAINT AND RESTORE WALL AND CEILING TO LIKE NEW CONDITION.
- REPLACE CYPHER LOCK ON THE INTERIOR DOOR TO ROOM 116.
- REPLACE STEEL DOUBLE DOOR ON THE EXTERIOR OF ROOM 116E. REPLACEMENT SHALL BE A STEEL DOUBLE DOOR WITH A MIN. OF 1 HOUR FIRE RATING. OWNER WILL PROVIDE LOCK CORE. SEE DESIGN GUIDELINES FOR HARDWARE INFORMATION.
- PROVIDE 2 NEW DATA DROPS FROM CEILING. FIELD LOCATE WITH OWNER OVER EQUIPMENT. PROPOSED DATA PORTS SHALL BE TWO SINGLE CAT 6 DATA DROPS, EACH SHALL BE PROVIDED WITH CABLE LONG ENOUGH TO REACH THE FLOOR FROM THE FACEPLATE IN ADDITION TO MAINTAINING 10' SLACK CABLE COILED ABOVE THE CEILING. THE CEILING MOUNTED FACEPLATE SHALL HAVE A CABLE PASS THROUGH WITH A CABLE RESTRICTOR MADE OF BRUSHES.



PLAN REVISIONS

Rev#	Description	Date	Appr.
2	ADDENDUM #1 - PLAN REVISION	5/19/20	
1	ISSUED FOR BIDDING	4/6/20	

DESIGNED BY: DSE
DRAWN BY: DSE
CHECKED BY: FRD
DATE: 04/03/2020
SCALE: 1/8" = 1'-0"
DFE PROJECT NO.: 235C19-314-D

STATE OF MAINE
DEPARTMENT OF DEFENSE, VETERANS
AND EMERGENCY MANAGEMENT
MAINE ARMY NATIONAL GUARD
ENGINEERING GSD GROUP
194 Winthrop Street
Augusta, Maine

MEARNG TELECOM UPGRADE PROJECT
CAMP KEYES, AUGUSTA, MAINE
TELECOM ROOM RENOVATIONS
BUILDING 34/39
MEARNG PRINT PLAN

PLAN PROGRESS

<input type="checkbox"/>	DRAFT
<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
DFE-03
SHEET: 3 OF 3

Pre-Bid Meeting Minutes and Questions Answered Camp Keyes Telecom Room Upgrades

The Following Pre-Bid Meeting Notes were given to each Attendee

Sign the Signup sheet, check box that received meeting notes.

Introductions: Darlene Estabrook, MEARNG PM

This is Mandatory Pre-Bid Meeting for Project 23SC19-314, Camp Keyes Telecom Room Upgrades.

Only those in attendance are allowed to bid on the project.

Please make sure you sign the Sign-In sheet, I will use this to contact you with any Addendums etc.

Today you will get a chance to tour the facility and ask questions about the project.

You will not be able to come back after today.

Each bidder has separate walk through.

No photos allowed; sketches & notes only

All site walk questions will be answered and sent via email to all pre-bid attendees.

Further questions must be submitted via email to PM or Contract Specialist no later than 4pm on May 18.

All Bidding questions should be directed to Contracting Specialist Ms. Hallett. Sherrill.L.Hallett@maine.gov

All Technical Questions should be directed to the PM Darlene Estabrook. Darlene.S.Estabrook.nfg@mail.mil

Responses to Technical Questions shall be emailed to all bidders as soon as possible after May 18 and no less than 72 hours before the bid opening.

Bid package deadline: 2pm on May 27 to DFE Contracting Ms. Hallett, see packet. Bid Opening will not be public but will be recorded if bidders would like to view afterwards. All bidders will receive results via email after opening.

Project Start date is ASAP after contract signing, first or second week in June.

Building 7 and Building 15 upgrades have a deadline of July 10th, the rest can be completed after that date.

Hours of operation: 8:00am to 4:30pm typically, may vary from building to building.

Occupancy:

5: Vehicle Shop – Occupied

7: Office - Mostly unoccupied

14: Store room – Unoccupied

15: Classroom - Unoccupied

34: Print plant - Occupied

Contract Substantial Completion date is AUG 7

Contract Final completion Date is AUG 28

Contract Expiration date is SEP 30

Liquidated Damages: \$250 /day beyond Substantial Completion Date.

COVID-19: MEARNG's goal is to keep its personnel and contractors safe during this difficult time. Currently face coverings shall be worn when workers are unable to stay more than 6' from others. These precautions may change during the project. The MEARNG PM shall bring Contractor updates as the conditions change.

Verify Contractor has plans

Walk through for all 5 buildings: discuss access, schedule, and answer questions.

Questions asked during the Pre-Bid Meeting

General:

Q: Will Base Bid cost be listed by building in the Bid Form?

A: The Base Bid cost is a lump sum cost that incorporates all the building renovation costs.

Note: The schedule of values used for invoicing after award will have to be divided up by building.

Q: Anti-static flooring in spec lists either painted or tile flooring as options. Is that the choice of the Contractor?

A: Yes, contractor can decide which product to use as long as product meets the antistatic requirements outlined in project guidance.

Q: When you list EMT Rigid in guidelines do you mean rigid pipe that is thicker and threaded on ends or EMT pipe that is not threaded, thinner and less expensive?

A: Regular EMT conduit, not threaded, that is used for wiring. The term rigid in this case means "non-flexible" EMT conduit, not the threaded Rigid pipe that is sometimes used. Non-flexible EMT shall be used in all areas except within vertical walls where flexible EMT shall be used to protect wiring.

Q: Are we required to use green for voice and blue for data lines?

A: Yes all cabling shall be installed with green for voice and blue for data, including the faceplates.

Q: Can we take pictures of the spaces during construction to track our progress?

A: No, pictures of Telecom spaces are not allowed.

Q: Do you have a particular brand of CAT 6 cable we have to use?

A: We do not specify a particular brand but all cabling shall meet UFC 3-580-01 standards and the General Requirements for each building that are included in the bid package.

Building 7:

Q: Where will the power be fed from?

A: There is a panel down hallway a bit on the other side of the wall that can feed the new panel, see plan. Our electrician did a power survey to check but your electrician will have to verify during the project.

Q: What is directly above this closet?

A: Directly above the closet is another Telecom area that is open to an eve attic space which holds mechanical equipment.

Q: Is the telecom rack/equipment staying during construction? (concerned with sheetrock dust, etc.)

A: The rack services a large portion of the building and will have to remain in service for the duration of the work. Anticipate protecting (wrapping?) the rack and components during construction, using the cleanest methods possible and equipment cleanup after work is complete.

Building 14:

Q: How far is it to the electrical service in the building to run the ground?

A: The Main Distribution panel is in a hallway 23' feet south of the storage room's south wall.

Q: Are we moving the telephone lines into the new rack? Are we still using analog in the buildings?

A: Yes the 25-pair row closest to the rack will have to move into the rack. The other analog will stay on the wall for intercom system, security lines etc. UFC Requires us to maintain 25 analog lines at each location.

Building 15:

Q: Do you want the outside A/C unit installed on the ground, on a stand or off the wall?

A: Install the Unit on a stand against the building. Actual height off ground will be determined after contract award

Q: Can outside A/C unit go on gable end of building?

A: There is no room on gable end, there are stairs and a ramp in the way.

Q: Where is power for A/C and rack coming from?

A: A power panel in the Boiler room which is an approximately 100' run, see plan

Q: Do you have a particular brand of A/C Unit we should use?

A: Daikin units have been installed in many of our facilities and are our Basis of Design. Please provide units that meet our Basis of Design or are equal.

Q: Is the voice cabling moving with the data cabling?

A: Yes, everything on the existing backer board will move to the new location.

Building 17:

Q: Is all the Fiber Optic going into the locked cabinet? What if the line is not long enough?

A: Yes, all the fiber optic has to be secured. If the line is not long enough to fit in the rack use a locking FO box, see project guidelines.

Building 34/39:

Q: The plans show 2 existing data drops in the ceiling of Room 103. Are those proposed or existing to be replaced?

A: The plans show existing data drops to be rerun which is incorrect. The drawings will be revised and an Addendum sent to you after the Questions deadline on May 18. Until then:

The proposed data ports will be two single CAT 6 data drops from the ceiling in separate locations as shown on plans. Each will be provided with cable long enough to reach the floor from the faceplate in addition to maintaining 10' slack cable coiled above the ceiling. The ceiling mounted faceplate shall have a cable pass through restrictor made of brushes.

Q: Once cables are run to the Server room can we use the existing cable tray to get to the rack?

A: Yes, it is preferred to use existing cable tray once inside the Server Room.

Pre Bid Attendance sheet

Camp Keyes Telecom Upgrades (5, 7, 14, 15, & 34/39)

Fill out Completely and Please Print Clearly

Project Number 23SC19-314

Bid Number 20-035

Time Varies

Incomplete or illegible information may exclude you from bidding

Company name Street Address Mailing address	Attendee Name	Phone #	Receipt of meeting Notes	e-mail
Amy LeGASSE Milestone Communications		441-2564	✓	legasse@milestonecomm.com
Milestone Communications 26 Western Ave PMB 172 Augusta, ME	Alisha Cosselman	431 0217	✓	alisha@milestonecomm.com
SHERIDAN CONSTRUCTION 37 SHERIDAN DR FAIRFIELD	DON AVERY	453-9311	✓	davery@sheridanorp.com
TRAVERS ELECTRIC PO Box 668 SKOWHEGAN ME	SCOTT STOUTAMYER	474-5829	✓	SCOTT@TRAVERSELECTRIC.COM
Connectivity Point Washington Ave Auburn ME	Paul Mbnean	207-713-2169	✓	PMoreau@ConnectivityPoint.com
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