

Scope of Work

Camp Rell

**38 Smith Street
Niantic, Connecticut**

July 27, 2004

**Department of Information Management
Telecommunications Section**



PURPOSE

This project has been developed to address the current phone infrastructure issues at Camp Rell. This project is necessary to eliminate the current phone service interruptions that are now deemed critical and have been causing increased costs and efforts in maintenance not to mention extensions that can not be repaired due to oxidation of existing copper.

STANDARDS AND COMPLIANCE

**All work will be based on industry standards;
Compliant with all Federal, State, and Local codes.**

PRODUCT DELIVERABLES

All products used on the project to include cable, wall outlets, patch panels, connectors and wire management devices, Building entrance Terminators will be industry standard products within the telecommunications and electrical fields.

CRAFTSMANSHIP AND QUALITY

The contractor will be committed to providing the highest quality craftsmanship. Cable bundles will be attached directly to the building structure to avoid interference with other building systems (e.g. HVAC, Sprinkler Systems, etc.), and recommended cable bend radius and termination practices will be strictly followed.

PROJECT MANAGEMENT

Project management will be provided by contractor with on-site supervision, and work directly with military personnel from the DOIM Telecom staff. Timelines will be developed in advance with definable benchmarks. Status updates will be provided daily to track project success. The installation team leader will verify and ensure that every detail of the installation is completed (e.g. wire panels are grounded, fire barrier penetrations are firestopped, phone outlets are machine labeled according to guidance provided by the DOIM telecom section, any ceiling tiles are put back in place if disturbed during installation, trash will be removed from the site, etc.).

TESTING, SYSTEM AUDIT, AND DOCUMENTATION



Rigorous testing of each cabled location will be performed by the contractor as well as a system audit to ensure compliance and an application-ready cable system. Complete system documentation, including cable records and test results, panel layout information, if appropriate and an extensive installation checklist of materials used and where they were installed will be provided to the customer upon completion of the installation identifying all work that has been accomplished during the project.

CUSTOMER RESPONSIBILITIES

It is the customer's responsibility to:

- Provide free and ready access to the work area.
- Identify all work areas that may contain asbestos or any other hazardous materials.
- Make the physical cross-connects in Bldg 806 and in the other buildings unless arranged otherwise in advance.
- Provide all necessary equipment room space, telecom closet space, secure storage space, electrical outlets, and electrical ground, unless arranged otherwise in advance.
- Provide marked floor plans, indicating the location and type of each cable location required.
- Establish mutually agreed upon project commencement and completion dates.
- Identify a primary contact to authorize move, add, and change activity to the original agreement configuration.
- Support contractor by preparing, clearing, and removing old cabling from boots and terminals as determined during walk-through.



DESCRIPTION OF THE CABLE SYSTEM

Contractor will furnish, install, test, and document the following:

Leg 1 (Customer: Native Sons)

- Fifty (50) pair of 24 gauge, outside plant (OSP) gel filled with metal sheath telephone distribution cable linking 200 pair in Pedestal #1, outside and across the street from Bldg 806 in the proximity to pole W9 with Col. Nett Hall, pole S1 installing messenger cable for support along this leg. This portion of leg traverses 10 poles, approximate distance 1390 feet. At pole S1 install 25 pair splice boot. Splice twenty (20) pair to existing 25 pair traveling to Col. Nett Hall.
- Continuing with Fifty (50) pair of 24 gauge OSP gel filled metal sheath telephone distribution cable linking Nett Hall pole S1 to pole S5 in the proximity of the Front Gate. Wrapping cable to existing cable infrastructure. This portion of leg traverses 5 poles, approximate distance 510 feet. At pole S5 install 10 pair splice boot. Splice five (5) pair of adequate drop wire linking pole S5 to Front Gate through underground conduit.
- Eight (8) pair shielded, 18 gauge copper linking Bldg 806 (FATS) to Front Gate Guard Station. Number of dropped pairs, five (5). Approximate distance 2500 feet. To be wrapped to 50 pair identified above.

Leg 1 (Customer: Department Of Information Management)

- Continuing with Fifty (50) pair of 24 gauge OSP gel filled metal sheath telephone distribution cable linking pole S5 to pole S23, adjacent to The Point following the existing overhead infrastructure around the Officer Candidate School (OCS).
- 1 - Two (2) pair drop wire linking Bldg 410 with existing boot located at pole S7. Splice two (2) pair.
- 2 - Two (2) pair drop wire linking Bldg 409 with existing boot located at pole S7. Splice three (3) pair.
- 2 - Two (2) pair drop wire linking Bldg 501 with existing boot located at pole S7. Splice three (3) pair.
- 8 - Two (2) pair drop wires linking 401, 402, 403, 404, 405, 406, 407, and 408 from a 25 pair boot to be installed centrally between 401 and 408 to use existing messenger to cross roadway. Splice one (1) pair for Bldg's 401 through 407 and two (2) pair for Bldg 408. Longest drop wire distance 240 foot.
- 1 - Two (2) pair drop wire linking the pole outside Bldg 52 through existing underground conduit. At pole S18, install 10 pair splice boot. Splice one (1) pair.
- 1 - Two (2) pair drop wire linking pole S19 to the Pavilion at existing splice boot with a waterproof locked telephone jack installed at the rear edge of the Pavilion. Splice one (1) pair.
- 1 - Two (2) pair drop wire linking pole S21 to Bldg 1, through existing splice boot and underground conduit. Splice one (1) pair.
- 1 - Two (2) pair drop wire linking pole S22 to Bldg 2, through existing splice boot. Splice one (1) pair.
- 1 - Two (2) pair drop wire linking pole S23 to The Point, through existing splice boot. Splice one (1) pair.
- All Fifty (50) pair of 24 gauge OSP gel filled metal sheath telephone distribution cable will travel thru existing and/or vendor installed splice boots as determined and identified during walk-through. Approximate number of dropped pairs, twenty-two (22). Approximate distance 2350 feet.

**Leg 2 (Customer: Department Of Information Management)**

- Fifty (50) pair of OSP gel filled with metal sheath telephone distribution cable linking 200 pair in Pedestal #1, outside and across the street of Bldg 806 in the proximity to pole W9 with pole W22 at end of Perimeter Road between Bldg 32 and Bldg 58.
- 1 - Two (2) pair drop wire linking pole W13 to Bldg 10 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W13 to Bldg 11 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W13 to Bldg 12 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W14 to Bldg 13 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W14 to Bldg 14 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W15 to Bldg 15 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W15 to Bldg 16 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W16 to Bldg 18 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W16 to Bldg 19 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W16 to Bldg 20 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W17 to Bldg 21 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W17 to Bldg 22 through existing splice boot.
- 2 - Two (2) pair drop wire linking pole W17 to Bldg 23 through existing splice boot.
- 2 - Two (2) pair drop wire linking pole W17 to Bldg 800 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W18 to Bldg 24 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W18 to Bldg 25 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W19 to Bldg 26 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W19 to Bldg 27 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W19 to Bldg 28 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W20 to Bldg 29 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W22 to Bldg 58 through existing splice boot.
- 1 - Two (2) pair drop wire linking pole W20 to Bldg 59 through existing splice boot.
- All Fifty (50) pair of 24 gauge OSP gel filled metal sheath telephone distribution cable will travel thru existing and/or vendor installed splice boots as determined and identified during walk-through. Approximate number of dropped pairs, forty-eight (48). Approximate distance 1115 feet.

Leg 3 (Customer: Department Of Information Management)

- Fifty (50) pair of OSP gel filled with metal sheath telephone distribution cable linking 200 pair in Pedestal #1, outside and across the street of Bldg 806 in the proximity to pole W9 with pole F17 at end of 1st Street where it intersects with Perimeter Road.
- Drop 25 pair cable from pole F11 to Bldg 801 through underground conduit using existing splice boot. Reaffix loose riser tube to pole F11. Splice ten (10) pair.
- Drop 25 pair cable from pole F12 to Bldg 802 through underground conduit using existing splice boot. Splice ten (10) pair.
- Drop 25 pair cable from pole F13 to Bldg 803 through underground conduit using existing splice boot. Splice ten (10) pair.
- Drop 25 pair cable from pole F14 to Bldg 804 through underground conduit using existing splice boot. Splice ten (10) pair.
- 1 – 2 pair drop wire from pole F15 to Bldg 105. Splice two (2) pair.

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- 2 – 2 pair drop wire from pole F16 to Bldg 103. Splice four (4) pair.
 - 2 – 2 pair drop wire from pole F17 to Bldg 101. Splice four (4) pair.
 - Approximate number of dropped pairs, fifty (50). Approximate distance 1220 feet.

GENERAL AGREEMENTS

- Any adds, moves, or changes necessary or required by the customer will be made by Change Order on approval of the Contracting Officer, prior to execution.
- All boots installed will be weatherproofed devices to lessen wire deterioration.
- Upon completion of the cable plant, a full documentation package will be provided including: as-builts, test results for copper cable pair records with a relationship to D-MARC, Pedestal, Splice Boot, and BET splicing points.
- Free and ready access to the work area, during normal business hours
- All work performed and completed in one contiguous work process

This Scope is in coordination with Native Sun Requirement to provide connectivity from Pedestal #1 to the Front Gate for Security Systems. CT-ARNG will incur the costs to continue without break in cabling from S-5 to The Point.