

Seaside Rehabilitation and Healthcare Center  
Portland, Maine

SECTION 02780 - POWER AND COMMUNICATIONS

**PART 1 - GENERAL**

1.01 GENERAL PROVISIONS:

- A. The CONDITIONS OF THE CONTRACT and all Sections of Division 1 are hereby made a part of this Section.
- B. Coordinate work with that of other trades affecting or affected by work of this Section. Cooperate with such trades to assure the steady progress of the work.
- C. The "*Standard Specifications*" referred to herein is the book entitled "*Standard Specifications, Highways and Bridges*" published by the State of Maine Department of Transportation (latest date), and Supplemental Specifications in Force, excluding the following portions thereof:

Division 100, Sections 102 through 109; numerical index of payment items included in each section.

Those Sections of the aforementioned Standard Specifications which are cited herein are applicable to the Work of this Contract as they may be modified, amplified, or added to by this Section.

- D. Reference is made to the Erosion Control Report and Drawings for this project. Strict adherence to the Report and Drawings must be followed in order to prevent adverse downstream impacts from erosion and sedimentation, originating from on-site construction activity.
- E. Contractor Communication Telephone Company, Time Warner Cable Co. and all other affected utility companies and the City of Portland, to the end that all work is constructed in accordance with their standard practices and regulations.

1.02 DESCRIPTION OF WORK:

- A. Provide all labor, materials, equipment and services necessary for proper and complete installation of the following:
  - 1. Trenching, bedding and backfilling for new telephone service, cable TV service and electrical service for the building addition and additional exterior site lighting, including transformer pad, light pole bases, and related appurtenances, all as shown on the Drawings.
  - 2. Installation of temporary electrical and telephone service to the site field office, as required.

1.03 QUALITY CONTROL; SUBMITTALS:

- A. General: Comply with requirements of Division 1 Sections for Submittals and Quality Control.

1.04 AS-BUILT DRAWINGS:

- A. As-built scale drawings, accurately showing actual locations of new and relocated underground and surface utility lines and structures, shall be produced by the Contractor and turned over to the

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Architect/Engineer at the completion of the project. As-built drawings shall be prepared for the following utilities:

1. Complete electrical service, including site lighting, etc.
2. Complete telephone service.
3. Complete CATV service.

Coordinate as-built drawings with the electrical sub-contractor.

**PART 2 - PRODUCTS**

2.01 UTILITY TRENCHES:

- A. Bedding Material for Electrical and Telephone Lines and Conduit: Well-graded fine sand, as specified under Section 02220-Excavation, Backfill and Compaction (SS 2.01.E).
- B. Granular Backfill: Well-graded sand or gravel, as specified under Section 02220-Excavation, Backfill and Compaction (SS 2.01.C.)

2.02 ELECTRICAL TRANSFORMER PAD AND LIGHT POLE BASES:

- A. Gravel Base: Refer to Section 02220-Excavation, Backfill and Compaction, (S.S. 2.01.B), Compacted Structural Fill.
- B. Concrete Bases: Provide pre-cast concrete transformer box pad as detailed on Drawings.
- C. Light Pole Bases: Provide concrete light pole bases as detailed on drawings.
- D. Light Poles, Cable & Conduit: Provided under Division 16 - Electrical.

2.03 TELEPHONE: Cable, conduit, etc. - See Division 16.

2.04 CATV: Cable, conduit, etc. - See Division 16.

2.05 UTILITY ACCESS BOXES:

- A. Contractor shall provide electrical, telephone and CATV pull-boxes for underground cables, as shown on the drawings, or as required by the respective utility companies. Submit shop drawings to the electrical subcontractor and to CMP Co., FairPoint, and Time Warner Cable for approval, prior to installation.

**PART 3 - EXECUTION**

3.01 PREPARATION:

- A. Notify "Dig-Safe" (811 or 1-888-DIG-SAFE) at least 3 days prior to beginning any excavation work.

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- B. Accurately locate any existing or previously installed utilities before beginning excavation.
- C. Check for conflict with underground utilities or structures. Notify the Architect/Engineer immediately of all discrepancies before proceeding with the work.
- D. Fully coordinate with utility companies to insure timely work by others so as not to hold up construction.
- E. Coordinate light pole bases, etc. with Electrical Contractor prior to installation.

3.02 UTILITY TRENCHING FOR ELECTRICAL, TELEPHONE, AND CATV:

- A. All work for the temporary utility lines, and the permanent overhead and underground utility installations to the site shall be coordinated with Central Maine Power Co., FairPoint and Time Warner Cable in conformance with applicable permits and utility standards.
- B. Coordinate all excavation and trenching for electrical, telephone, and CATV conduit, parking area pole lights, and transformer pad with work under Division 16 - Electrical.
- C. Excavate, bed and backfill electrical, telephone, and CATV trenches in accordance with CMP, FairPoint, and Time Warner Cable specifications, the National Electrical Code, and to the locations, lines, and details indicated on the plans.
- D. All underground electrical, telephone, and CATV cable shall be installed in Schedule 40 PVC conduit under all paved areas, and in other locations as indicated.

**END OF SECTION**