

Seaside Rehabilitation and Healthcare Center  
Portland, Maine

SECTION 02210 – GRADING

**PART 1 - GENERAL**

1.01 GENERAL PROVISIONS:

- A. Documents affecting Work of this Section include, but are not necessarily limited to, The CONDITIONS OF THE CONTRACT General Conditions, Supplementary Conditions, Addenda and all Sections of Division 1, which 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 latest Erosion Control Plan (report) and Drawings for this project. Strict adherence to this Plan and Drawings must be followed in order to prevent adverse on-site and off-site impacts from erosion and sedimentation originating from on-site construction activities.

1.02 DESCRIPTION OF WORK:

- A. Provide all labor, material, equipment and services required to complete the following:
  - 1. All rough grading and finish grading as required and as indicated on the Drawings, for the building footings, floor slabs, roadway entrances and parking areas, sidewalks, site drainage, landscaping, etc.

B. Related Work specified elsewhere:

Site Special Conditions	- Section 02000
Subsurface Investigation	- Section 02010
Layout of Work	- Section 02030
Selective Demolition	- Section 02070
Site Preparation	- Section 02100
Excavation, Backfill & Compaction	- Section 02200
Gravel Base Courses	- Section 02230
Erosion Control	- Section 02270
Paving, Walks & Curbing	- Section 02500
Site Improvements	- Section 02800
Landscaping	- Section 02900

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1.03 QUALITY ASSURANCE; SUBMITTALS:

- A. General: Comply with applicable requirements of Division 1 sections for Submittals and Quality Control.
- B. Inspection:
  - 1. The Geotechnical Engineer may inspect critical phases of site grading prior to placement of fill materials, footings, pavement bases, etc.
  - 2. Tolerances:
    - a) Construct rough-graded surfaces to plus or minus 1.0 inch of elevations indicated, creating smooth, even surfaces.
    - b) Construct fine-graded surfaces to plus or minus 3/8 inch of elevations indicated, creating smooth, even surfaces.

**PART 2 - PRODUCTS**

(Not Used)

**PART 3 - EXECUTION**

3.01 ROUGH GRADING:

- A. Rough grading of all areas within designated work areas, including excavated and filled sections and adjacent transition areas, shall be reasonably smooth, compacted and free from irregular surface changes; the degree of finish shall be that ordinarily obtainable from skilled blade bulldozer except as otherwise specified. The finished subgrade surface generally shall be not more than 0.1 feet above or below the established grade or approved cross-section, with due allowance for topsoil, sod, gravel bases and pavement depths; the subgrade tolerance for all areas to be paved shall not exceed 1.0 inch above or below the established subgrade. All ditches, swales and gutters shall be finished to drain readily. Provide roundings at top and bottom of banks and at other breaks in grade.
- B. Protect newly graded areas from the action of the elements. Any settlement or erosion that occurs prior to Acceptance of the Work shall be repaired, and grades re-established to the required elevations and slopes. Fill to required subgrade levels any areas where settlement occurs.

3.02 SUBGRADE PREPARATION FOR PAVEMENTS AND WALKS:

- A. Form, shape and roll subgrade to conform to cross-section of finished pavement. Roller: ten-ton minimum weight in all open areas; suitable equipment in confined spaces.
- B. Remove stones greater than 5" from subgrade to 12" depth. Fill depressions with suitable material. When surface areas become impervious due to concentrations of fines, lightly scarify and re-compact. In severe cases, remove such material and replace with suitable soil as directed.

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3.03 FINE GRADING:

- A. Fine grading of gravel bases in areas to receive pavement or concrete slab-on-grade shall be accomplished by the use of a suitable motor-grader, or by hand-raking in areas too small to allow machine grading. Finish grading shall be carried out after the base material has been thoroughly compacted as specified. Use screeds, grade stakes, string-lines, etc. as necessary to maintain specified finish sub-grades and tolerances.
- B. Finish-tolerance for all areas to receive pavements or slab-on-grade shall not exceed 3/8 inch above or below the required finished subgrade of the gravel base material.
- C. Loamed areas shall be fine-graded using hand raking and/or tractor-mounted rakes, in conjunction with removal of stones and debris, etc. Finish-tolerance for lawn areas shall not exceed 5/8 inch above or below specified finished grades.
- D. Protection and Restoration: Protect finish-graded areas from the action of the elements. Any settlement or erosion that occurs prior to acceptance of the Work shall be repaired, and grades re-established to the required elevations and slopes. Fill to required finish-grade levels any areas where settlement occurs.

**END OF SECTION**