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**SITE GRADING**

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**PART 1 GENERAL****1.1 Description of Work**

- .1 This section specifies the requirements for site grading.

**1.2 Related Work**

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|----|-------------------------------|-------------------------------|
| .1 | All Division 1                | Specification Sections        |
| .2 | Section <a href="#">01561</a> | Environmental Protection      |
| .3 | Section <a href="#">02743</a> | Asphalt Concrete Paving       |
| .4 | Section <a href="#">02634</a> | Pipe Culverts                 |
| .5 | Section <a href="#">02901</a> | Tree & Shrub Preservation     |
| .6 | Section <a href="#">02911</a> | Site Topsoil & Finish Grading |
| .7 | Section <a href="#">03300</a> | Cast-in-Place Concrete        |

**1.3 Protection**

- .1 Contractor to verify location of all existing structures, underground services and survey monuments prior to beginning site grading. Notify in writing of any damage to existing structures prior to the beginning of any Work.
- .2 Prevent damage to fencing, trees, landscaping, natural features, bench marks, existing buildings, existing pavement, surface or underground utility lines which are to remain, and to adjacent properties. Contractor to make good on any damage.
- .3 Install silt controls prior to the commencement of Work.
- .4 The Contractor is responsible for repairs to existing structures damaged by their Work at no extra cost to the Contract.

**PART 2 PRODUCTS****2.1 Fill**

- .1 The Contractor is to obtain approval of excavated or graded material used as fill for grading Work. Protect approved material from contamination.

**PART 3 EXECUTION****3.1 Stripping of Topsoil**

- .1 Do not handle topsoil while in wet or frozen condition or in any manner in which soil structure is adversely affected.

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- .2 Commence topsoil stripping of areas as indicated after area has been cleared of fencing, stumps, boulders, brush, weeds and grasses and removed from site.
- .3 Strip topsoil to depths as indicated. Avoid mixing topsoil with subsoil.
- .4 Stockpile in locations as indicated on plan. Topsoil cannot be stockpiled on or from adjacent lots.
- .5 Dispose of unused topsoil as directed by the Consultant.

**3.2 Grading**

- .1 Rough grade to levels, profiles, and contours allowing for surface treatment as indicated.
- .2 Rough grade to following depths below finish grades, unless otherwise specified:
  - .1 150mm for sodded areas minimum.
  - .2 150mm for seeded areas.
  - .3 450mm for flower beds.
  - .4 450mm for shrub beds.
  - .5 250mm for concrete walks.
  - .6 275mm for asphalt walks.
- .3 Slope rough grade at minimum 2% for drainage unless otherwise specified.
- .4 Prior to placing fill over existing ground, scarify surface to depth of 150 mm. Maintain fill and existing surface at approximately same moisture content to facilitate bonding.
- .5 Compact filled and disturbed areas to corrected maximum dry density, as follows:
  - a. 1 85% S.P.D. under landscaped areas.
  - b. 2 98% S.P.D. under paved and walk areas.
  - c. 3 98% S.P.D. under concrete slabs.
- .6 Do not disturb soil within drip line or branch spread of trees or shrubs to remain.

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**3.3        Testing**

- .1        Inspection and testing of soil compaction will be carried out by designated testing laboratory.
- .2        Costs of tests will be at Contractors' expense. Refer to [1450](#) **Quality Control & Inspection**.

**3.4        Surplus Material**

- .1        The Contractor is to remove surplus material from site or relocate on site, as directed by the Consultant;
- .2        Remove material unsuitable for fill, grading or landscaping from site as directed by the Consultant.

**END OF SECTION - 02311**