

**PART 1 GENERAL**

**1.1 REFERENCES**

- .1 American Society for Testing and Materials (ASTM)
  - .1 ASTM D698-00a, Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (600 kN-m/m<sup>3</sup>).

**1.2 EXISTING CONDITIONS**

- .1 Visit the site and note all characteristics and irregularities affecting the work of this section.
- .2 Refer to dewatering in Section 31 23 33 - Excavating Trenching and Backfilling.

**1.3 PROTECTION**

- .1 Protect and/or transplant existing fencing, trees, landscaping, natural features, bench marks, buildings, pavement, surface or underground utility lines which are to remain as directed by The Departmental Representative. If damaged, restore to original or better condition unless directed otherwise.

**PART 2 PRODUCTS**

**2.1 MATERIALS**

- .1 Fill material: Excavated material - Type 3 in accordance with of Section 31 23 33 - Excavating, Trenching and Backfilling.

**PART 3 EXECUTION**

**3.1 GRADING**

- .1 Rough grade to levels, profiles, and contours allowing for surface treatment as indicated.
- .2 Rough grade to following depths below finish grades:
  - .1 100 mm for grassed areas.
  - .2 Bottom of subgrade for roads.
- .3 Slope rough grade away from lift station, storage tanks, parking pad and access road at 2.00% minimum.
- .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 Remove debris, roots, branches, stones in excess of 50 mm diameter and other deleterious materials. Remove and dispose of soil contaminated with calcium chloride, toxic materials

and petroleum products as per applicable guidelines and standards. Remove debris which protrudes more than 75 mm above surface.

- .6 Compact filled and disturbed areas to corrected maximum dry density, as follows:
  - .1 95% under landscaped areas.
  - .2 98 % under paved and gravel areas.
  - .3 98% under the landscape islands
- .7 Do not disturb soil within branch spread of trees or shrubs to remain.

**END OF SECTION**