

PART 1 - GENERAL

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| <u>1.1 REFERENCES</u>            | .1 | American Society for Testing and Materials (ASTM)<br>.1 ASTM D 698-2012, Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort(600kN-m/m <sup>3</sup> ).   |
| <u>1.2 REGULATIONS</u>           | .1 | Shore and brace excavations, protect slopes and banks and perform all work in accordance with Provincial and Municipal regulations whichever is more stringent.  |
| <u>1.3 SUBMITTALS</u>            | .1 | Submittals in accordance with Section 01 33 00 - Submittal Procedures.   |
|                                  | .2 | Hazardous Materials: provide description of Hazardous Materials and Notification of Filing with proper authorities prior to beginning of work as required.   |
| <u>1.4 TESTS AND INSPECTIONS</u> | .1 | Testing of materials and compaction of imported fill will be carried out by testing laboratory designated by Departmental Representative at the discretion of the Departmental Representative.                                       |
|                                  | .2 | As requested by Departmental Representative provide to designated testing agency, samples of each fill material proposed for use. Departmental Representative shall specify quantity of material to be submitted at time of request. |
|                                  | .3 | Do not deliver imported fill to site until material has been approved for use by Departmental Representative.  |
|                                  | .4 | Before commencing work, conduct, with Departmental Representative, condition survey of existing structures, vegetation, fencing, service poles, wires, paving, and survey bench marks and monuments which may be affected by work.   |
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- 1.5 BURIED SERVICES .1 Before commencing work establish the location of all buried services on and adjacent to the site.
- .2 Arrange with appropriate authority for relocation of buried services that interfere with execution of work. Pay costs of relocating services.

- 1.6 PROTECTION .1 Protect excavations against flooding and damage due to surface run off.
- .2 Keep excavations clean, free of standing water, loose soil, and snow.
- .3 Provide impermeable liner to separate stockpiles from ground and cover stockpiles with tarps to acceptance of Departmental Representative.
- .4 Protect natural and man-made features required to remain undisturbed. Unless otherwise indicated or located in an area to be occupied by new construction, protect existing trees from damage.
- .5 Protect buried services that are required to remain undisturbed.

## PART 2 - PRODUCTS

- 2.1 MATERIALS .1 Common fill: uncontaminated soil and aggregate material, free from stumps, roots and organic materials larger than 25mm dia., stones larger than 100mm diameter approved for use as backfill by Departmental Representative. Grubbing material is not acceptable.
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PART 3 - EXECUTION

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| <u>3.1 LAYOUT</u>           | .1 | Identify on site, areas of excavation/filling as indicated on the drawings.   |
|                             | .2 | Do not commence excavation until Departmental Representative has confirmed areas of excavation.   |
| <u>3.2 SITE PREPARATION</u> | .1 | Remove obstructions, ice and snow, from surfaces to be excavated within limits indicated.   |
| <u>3.3 EXCAVATION</u>       | .1 | Carry out excavation in accordance with Section 01 14 10 Scheduling and Management of Work.   |
| <u>3.4 SOIL SAMPLING</u>    | .1 | Provide access and assist Departmental Representative and their personnel in collection of confirmatory samples from floors and walls of excavations for laboratory testing as requested.   |
| <u>3.5 BACKFILLING</u>      | .1 | Do not commence any backfilling activities without authorization of Departmental Representative.  |
|                             | .2 | Remove snow, ice, construction debris, organic soil and standing water from spaces to be filled to satisfaction of Departmental Representative.   |
|                             | .3 | Compact subgrade to 85% maximum dry density to ASTM D698.   |
|                             | .4 | Backfill as follows:<br>.1 Compact each lift to 85% maximum dry density to ASTM D 698.<br>.2 Place common fill as required to fill excavations to within 75mm below existing grade of surrounding area.<br>.3 Leave excavation 100mm lower than existing grade of surrounding area for topsoil and sod. |
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3.6	SURPLUS	.1	Remove surplus material as directed by
<u>MATERIAL</u>			Departmental Representative.