

PART 1 - GENERAL

- 1.1 REFERENCES .1 American Society for Testing and Materials International (ASTM)
- .1 ASTM C 127-04, Standard Test Method for Density, Relative Density (Specific Gravity) and Absorption of Coarse Aggregate.
  - .2 ASTM D 698-00a1, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft<sup>3</sup> (600 kN-m/m<sup>3</sup>)).
  - .3 ASTM D 1557-02e1, Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft<sup>3</sup> (2,700 kN-m/m<sup>3</sup>)).
  - .4 ASTM D 4253-00, Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table.
- 1.2 DEFINITIONS .1 Corrected maximum dry density is defined as:
- .1  $D = (D1 \times D2) / ((F1 \times D2) + (F2 \times D1))$
  - .2 Where: D = corrected maximum dry density kg/m<sup>3</sup>.
    - .1 F1 = fraction (decimal) of total field sample passing 4.75 mm sieve
    - .2 F2 = fraction (decimal) of total field sample retained on 4.75 mm sieve (equal to 1.00 - F1)
    - .3 D1 = maximum dry density, kg/m<sup>3</sup> of material passing 4.75 mm sieve determined in accordance with Method A C of ASTM D 698 ASTM D 1557.
    - .4 D2 = bulk density, kg/m<sup>3</sup>, of material retained on 4.75 mm sieve, equal to 1000G where G is bulk specific gravity (dry basis) of material when tested to ASTM C 127.
  - .3 For free draining aggregates, determine D1 (maximum dry density) to ASTM D 4253 dry method wet method when directed by Departmental Representative.

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PWGSC - SIGNAL HILL  
PARKING AREA IMPROVEMENTS  
PROJECT #: R.071834.001

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CORRECTED MAXIMUM DRY  
DENSITY FOR FILL

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PART 2 - PRODUCTS

2.1 NOT USED .1 Not Used.

PART 3 - EXECUTION

3.1 NOT USED .1 Not Used.