

TABLE OF CONTENTS

3.8 GRANULAR FILL ..... 1

3.8.1 GENERAL ..... 1

3.8.2 MATERIALS ..... 1

    3.8.2.1 **Aggregate** ..... 1

    3.8.2.2 **Water** ..... 1

3.8.3 SAMPLING AND TESTING ..... 1

    3.8.3.1 **Test Methods** ..... 1

3.8.4 CONSTRUCTION ..... 2

    3.8.4.1 **Granular Fill** ..... 2

    3.8.4.2 **Fine Grading Gravel Course** ..... 2

3.8.5 MEASUREMENT AND PAYMENT ..... 2

**3.8 GRANULAR FILL**

3.8.1 GENERAL

Granular fill shall consist of pit-run gravel, sand or crushed gravel placed upon the prepared areas and in excavations, at locations and to thicknesses specified.

3.8.2 MATERIALS

3.8.2.1 **Aggregate**

The Contractor shall produce processed aggregates in accordance with Specification 3.2, Aggregate Production and Stockpiling for the designation and class of material specified. The Contractor shall supply aggregate materials in accordance with Specification 5.2, Supply of Aggregate and haul aggregate materials in accordance with Specification 4.5, Hauling.

3.8.2.2 **Water**

When required, the Contractor shall supply suitable water.

3.8.3 SAMPLING AND TESTING

3.8.3.1 **Test Methods**

Unless otherwise specified, the latest edition of the test methods shown in Table 3.8.3.1 will be used to determine material characteristics.

**TABLE 3.8.3.1  
TEST METHODS USED TO DETERMINE MATERIAL CHARACTERISTICS**

<b>Test Description</b>	<b>Method No.</b>
Sampling, Gravel and Sand	ATT-38
Sieve Analysis	ATT-25 or 26
Determining the Liquid Limit of Soils	AASHTO T 89
Dry Strength, Non-Plastic Aggregates	ATT-54
Determining the Plastic Limit and Plasticity Index of Soils	AASHTO T 90
Density, Control Strip Method	ATT-58
Moisture Content, Open Pan Method	ATT-14

**NOTES:**

- (1) In all Test Methods used as reference in this specification, metric sieves as specified in Canadian General Standards Board Specification 8-GP-2M shall be substituted for any other specified wire cloth sieves in accordance with Specification 3.2, Aggregate Production and Stockpiling.

3.8.4 CONSTRUCTION

3.8.4.1 **Granular Fill**

The granular fill shall be deposited on the prepared area or in an excavation in a uniform manner and quantity, which will produce the required compacted thickness and width designated by the Consultant. Any coarse material segregated during dumping operations shall be blended with fines and shaped to the required depth, grade and cross-section.

The granular fill shall be watered or dried and compacted. Compaction shall continue in conjunction with light blading and water spraying where necessary to maintain cross-section and designated moisture content until the required density is reached.

3.8.4.2 **Fine Grading Gravel Course**

When required, a light application of crushed gravel material of the designation and class specified, shall be placed in a single layer on the granular fill course for fine grading purposes.

The crushed gravel shall be windrowed uniformly upon the designated area and spread to the required cross-section and depth. The surface shall be compacted to the required density as directed by the Consultant. If necessary, water shall be added to the material during compaction to maintain the required uniform moisture content.

The moisture content of any layer shall not exceed the designated moisture content prior to any subsequent operations.

3.8.5 MEASUREMENT AND PAYMENT

Granular fill and fine graded gravel course will be measured in tonnes or cubic metres as specified and paid for at the applicable unit price bid for "Granular Fill" for the Designation and Class of material specified. This payment will be full compensation for supplying and adding water; and processing, hauling and placing the granular fill material.