# GEneral

## Related Sections

#### Section 02701 – Aggregates General

## References

### Ontario Provincial Standards for Roads and Public Works

#### OPSS 314 Untreated Granular Subbase, Base, Surface, Shoulder And Stockpiling (Nov 2013)

#### OPSS.MUNI 1010 Aggregates- Base, Subbase, Select Subgrade and Backfill Material (April 2013)

## Measurement and Payment

### All costs associated with the work of this Section shall be included in the price for Item No. A2.XX in the Bid Form.

# PRODUCTS

## Materials

### Granular base: material in accordance with Section 02701 - Aggregates - General

# EXECUTION

## OPSS Amendments

### OPSS 314 shall be followed with the following amendments:

### **314.07 CONSTRUCTION**

#### **314.07.01 Granular Subbase, Base, and Surface** is amended by the addition of the following to the first paragraph:

##### The Contractor shall not use heavy vehicles such as tractor trailers to haul gravel if the subgrade becomes deformed. The subgrade or granular surface shall be shaped and proof rolled to ensure even and smooth surface free of dips and humps before placement of subsequent layer of material.

#### **314.07.03 Edge Ramping of Bituminous Pavement** is amended by the addition of the following:

##### Where traffic must be maintained, the Contractor shall supply and maintain delineators along the shoulder at intervals of not more than 60 metres until the shoulders have been constructed. Delineators shall be weighted in order to prevent overturning.

#### **314.07.04 Shoulders** is amended by the addition of the following:

##### Normal cross fall for the new shoulder is 6% except that on the high side of super-elevated sections it shall be 2%. Width of placement shall be 2.0m with a 0.5m rounding unless otherwise specified in the Contract Documents.

#### **314.07.06 Tolerances** is amended by the addition of the following:

##### The tolerances specified in this section are working tolerances only and it is expected that the Contractor will use them as such and not keep the grade consistently high or low to replace other material.

### **314.08 QUALITY ASSURANCE**

#### **314.08.01 General** is amended by the addition of the following:

##### The Contractor shall supply a person to assist the Consultant’s inspector in checking the grade when requested by the Consultant.

##### Place the granular base after the sub-base surface is inspected and approved by the Consultant.

### **314.09 MEASUREMENT FOR PAYMENT**

#### **314.09 Measurement for Payment** is amended by the addition of the following:

##### Measurement by the cubic metre will be made by Plan Quantity (theoretical) as may be revised by Adjusted Plan Quantity and the volumes will be calculated from the end areas of the Granular ‘A’ and Granular ‘B’, Type I, sections as shown on the typical cross-sections on the Drawings.

##### No measurement or payment will be made for water used for compaction or dust control. Payment for water shall be included in the unit price of the tender item(s) for the material to be placed or the Work to be carried out.

##### The tender quantities will be the pay quantities unless any additions or deletions are requested by the Consultant. Any additions or deletions shall be calculated from field tape measurements agreed to by the Consultant and the Contractor. If there is no agreement on tape measurements then cross-sections shall be used to calculate the quantity.

##### Granular material for driveways is normally calculated at 150mm of Granular ‘A’ beyond the edge of the shoulder or curb, measured horizontally to the limit of grading shown on the Drawings in accordance with OPSD 350.010 and OPSD 351.010. Any variation from this depth will be shown on the Contract Drawings. The Contractor shall be responsible for any granular material required to maintain access as specified under Section 01550 – Traffic Control. As the cubic metre payment for granular materials is based on the theoretical quantity calculated as specified in the Contract Documents, the Contractor shall make its own allowances in its unit prices for any loss of Granular ‘A’ into the Granular ‘B’, Type I, and for any Granular ‘A’ required for maintenance of traffic. The Contractor shall also make allowances in its unit prices for any losses of Granular ‘B’ during its operations.

### **314.10 BASIS OF PAYMENT**

#### **314.10.01 Granular A – Item, Granular A, Stockpiled – Item, Granular A, from Stockpile – Item, Granular B Type I – Item, Granular B Type I, Stockpiled – Item, Granular B Type I, from Stockpile – Item, Granular B Type II – Item, Granular B Type II, Stockpiled – Item, Granular B Type II, from Stockpile – Item, Granular B Type III – Item, Granular B Type III, Stockpiled – Item, Granular B Type III, from Stockpile – Item, Granular M – Item, Granular M, Stockpiled – Item, Granular M, from Stockpile – Item, Granular O – Item, Granular O, Stockpiled – Item, Granular O, from Stockpile – Item, Granular S – Item, Select Subgrade Material, Compacted - Item** is amended by the addition of the following:

##### The Contractor shall repair or replace any granular material lost through washouts or bladed-off the roadway and no additional payment will be made for this Work. The applicable unit prices for Granular ‘A’ and Granular ‘B’, Type I, shall apply when additions or deletions requested by the Commissioner cause changes in the tender quantities.

##### No measurement or payment will be made for water used for compaction or dust control. Payment for water shall be included in the Contract unit price of the tender item(s) for the material to be placed or the Work to be carried out.

##### The tender quantities will be the pay quantities unless any additions or deletions are requested by the Consultant. Any additions or deletions shall be calculated from field tape measurements agreed to by the Consultant and the Contractor. If there is no agreement on tape measurements then cross-sections shall be used to calculate the quantity.

##### Granular material for driveways is normally calculated at 150mm of Granular ‘A’ beyond the edge of the shoulder or curb, measured horizontally to the limit of grading shown on the plans according to the applicable 300 series OPSD. Any variation from this depth will be shown on the Contract Drawings. The Contractor will be responsible for any granular material required to maintain access as specified under Section 01550 – Traffic Control. As the cubic metre payment for granular materials is based on the theoretical quantity calculated as specified, the Contractor shall make its own allowances in its Contract unit prices for any loss of Granular ‘A’ into the Granular ‘B’, Type I, and for any Granular ‘A’ required for maintenance of traffic. The Contractor shall also make allowances in its Contract unit prices for any losses of Granular ‘B’ during its operations.

## **END OF SECTION**