

# **314 MUNI CONSTRUCTION SPECIFICATION FOR UNTREATED GRANULAR SUBBASE, BASE, SURFACE, SHOULDER AND STOCKPILING**

## **314.07.01 Granular Subbase, Base, and Surface**

### **ADD in the following:**

Subbase material shall not be dumped into position, but shall be deposited on and pushed over the end of the layer being constructed by means of bulldozers or other approved equipment.

The placement of the first layer of material over wet or weak subgrade shall be monitored and the placement and compaction procedure modified as required, with the approval of the General Manager, to minimize subgrade disturbance. Localized, unusually wet or weak subgrade areas shall be identified to the General Manager, for possible treatment.

### **314.07.05.01 General**

#### **ADD in the following:**

The rate of placing material shall be controlled by the adequacy of the compaction obtained.

### **314.07.05.02 Compaction Requirements**

#### **ADD in the following:**

Granular B, Type II shall be compacted using single drum, vibratory, smooth steel drum rollers, with a minimum static drum weight of 8 tonnes (8000 kilograms) and minimum operating dynamic force of 150 kilonewtons. One hundred percent roller pass coverage with a minimum number of four passes shall be provided. Each roller pass shall overlap the coverage of the preceding pass by a minimum of 0.5 m.

### **314.07.05.03 Modified Layer Compaction Method**

#### **ADD in the following:**

Granular B, Type II shall be placed in uniform layers with a compacted depth not to exceed the values allowed by Table 1 for various sizes of single drum, vibratory, smooth wheel drum rollers. Both the minimum drum weight and the minimum operating dynamic force requirement shall be met. One hundred percent roller pass coverage with a minimum number of four passes shall be provided. Each roller pass shall overlap the coverage of the preceding pass by a minimum of 0.5 m.

Table 1: Modified Layer Compaction Thickness for Granular B, Type II

| Minimum Drum Weight (kilograms) | Minimum Operating Dynamic Force (kilonewtons) | Maximum Layer Depth after Compaction (mm) |
|---------------------------------|-----------------------------------------------|-------------------------------------------|
| 8000                            | 150                                           | 450                                       |
| 12000                           | 250                                           | 600                                       |
| 15000                           | 350                                           | 750                                       |

Where vibration effects are creating environmental problems, the Contractor shall make whatever changes are necessary.

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**DELETE paragraphs b) and c)**

**ADD in the following paragraph:**

Where the Contractor supplies Modified Granular B composed of blended nickel slag, the total measured mass of blended nickel slag incorporated into the work shall be multiplied by a factor of 0.85.

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