

**ITEM 15304.0117 M - SUBBASE COURSE (LOOSE MEASURE)**

**DESCRIPTION**

The work shall consist of furnishing, placing and compacting a subbase course in conformity with the lines, grades, thicknesses and typical sections shown on the plans, or as determined by field conditions and ordered in writing by the Engineer.

**MATERIALS**

2.01 Test and Control Methods. Materials tests and quality control methods pertaining to the work of this section will be performed in conformance with the procedures contained in the appropriate Departmental publications in effect on the letting date of the project. These publications are available upon request to the Regional Director or the Deputy Chief Engineer (Technical Services).

2.02 Material Requirements. Material for Subbase Course (Loose Measure) shall consist of Gravel, Blast Furnace Slag or Stone. All materials furnished shall be well graded from coarse to fine and free from organic or other deleterious materials.

If blast furnace slag is used, provide documentation showing that it has undergone a NYSDEC beneficial use determination (BUD) prior to its use as specified in Section 360-1.15 of 6 NYCRR, Part 360 "Solid Waste Management Facilities, Title 6 of the Official Compilation of Codes, Rules and Regulations."

It shall be the Contractor's responsibility to provide a material which meets this specification and is within his capabilities to fine grade to the required tolerances. Should the subbase course become unstable at any time prior to the placement of the overlying course due to the gradation of the material furnished, the Contractor shall, at his own expense, correct the unstable condition to the satisfaction of the Engineer.

A. Gradation

Sieve Size Designation	Percent Passing by Weight
50 mm	100
6.3 mm	30-65
425 µm	5-40
75 µm	0-10

B. Soundness. Material will be accepted on the basis of a Magnesium Sulfate Soundness Loss after 4 cycles of 20 percent or less.

C. Plasticity Index. The Plasticity Index of the material passing the 425 µm sieve shall not exceed 5.0.

D. Elongated Particles. Not more than 30 percent, by weight, of the particles retained on a 12.5 mm sieve shall consist of flat or elongated particles. A flat or elongated particle is defined herein as one which has its greatest dimension more than 3 times its least dimension. Acceptance for this requirement will normally be based on a visual inspection by the Engineer. When the State elects to test for this requirement, material with a percentage greater than 30 will be rejected.

2.03 Stockpiling. All material shall be stockpiled. No more than one project shall be supplied from a stockpile if the material is measured in the pile.

This Specification has been Disapproved as a result of a memo from the GEB dated 6/12/2000

Item 17304.0117 replaced it

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### CONSTRUCTION DETAILS

#### 3.01 Placing

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Item 17304.0117 replaced it
- A. The upper course material shall be placed on the grade, in a manner to minimize segregating, using equipment and procedures approved by the Engineer. Uncontrolled spreading from piles dumped on the grade resulting in segregation will not be permitted. This course shall not be placed in excess of 150 meters without being compacted.
  - B. The maximum layer thickness shall be 380 mm compacted, or as shown on the plans. The loose lift thickness shall be a minimum of 1.5 times the maximum particle size. In confined areas as defined by the Engineer the maximum compacted layer thickness shall be 150 mm.

3.02 Compaction. When the moisture content is within the limits for proper compaction, the material shall be compacted in accordance with the requirements of Section 203-3-12, Compaction. Density tests are not required for the acceptance of these courses.

3.03 Traffic and Contamination. The movement of highway traffic over the final surface of the subbase may be permitted at locations designated by, and under such restrictions as ordered by the Engineer, provided such movements take place prior to the final finishing of this course to the specified tolerance. The movement of construction equipment on this course will not be permitted except for that necessary for placing the next course.

Should the subbase become mixed with the subgrade or any other material, through any cause whatsoever, the Contractor shall, at his expense, remove such mixture and replace it with approved subbase material.

The Contractor shall assume full responsibility for any contamination and degradation of any part of this course during construction and shall, at no cost to the State, remove any and all portions of this course which do not conform to the requirements of this specification and replace these portions with approved material.

3.04 Tolerance. After compaction, the top surface of the course shall not extend more than 6.0 mm above nor more than 6.0 mm below true grade for the course at any location.

### METHOD OF MEASUREMENT

The quantity to be paid for under this Item will be the number of cubic meters of material measured in the stockpile or by truck load count, placed as required by the plans and specifications or as ordered by the Engineer. The Engineer shall determine whether truck load count or measurement in the stockpile will be used.

### BASIS OF PAYMENT

The unit price bid for this work shall include the cost of furnishing all labor, material and equipment necessary to complete the work. The cost of adding water shall be included in the price bid unless the items for furnishing and applying water are included in the contract. No direct payment will be made for losses of material resulting from compaction, foundation settlement, erosion or any other cause. The cost of such losses shall be included in the price bid for this Item. No deductions shall be made for the volumes occupied by manholes, catch basins and other such objects.

Progress payments will be made after the subbase course has been properly placed and compacted. Payment will be made at the unit price bid for seventy five (75%) of the quantity. The balance of the quantity will be paid for after the final finishing to the required tolerance and just prior to the placing of pavement.