



City of Estevan

Construction Specifications

SECTION 2220
GRANULAR BASE

1.0 GENERAL

This section governs the placement of granular base course materials immediately following the completion of sub-base course.

2.0 MATERIALS

Crusher run gravel with or without binder, uniform in quality and consisting of hard, strong, durable aggregate and sand free of organic and other deleterious material for granular base in Section 1090 - Granular Material and Aggregates.

3.0 INSTALLATION

- 3.1 Place the base course in layers and compact to specified thickness. The base course shall consist of an intimate mixture of coarse aggregate, sand, clay, and water. These materials shall be combined, compacted and finished on the previously prepared sub-base or subgrade to a compacted thickness as shown on cross-sections and plans, and in these specifications.
- 3.2 Begin rolling and compacting at the gutter edges of the roadway and progress toward the center parallel to the center line with such overlapping of successive passes as may be required to produce the required density. Use a blade grader in conjunction with the compaction equipment to maintain an even and uniform compacted surface shaped to the required lines. Correct any irregularities or depressions in the final surface that develop under rolling, by loosening the material at these places and adding or removing material until the surface is smooth and uniform. The final surface of the granular base course shall be compacted in such a manner as to ensure the top 15mm is stable and tightly knit together.
- 3.3 Compact each layer of base course to at least one hundred percent (100%) of the maximum Standard Proctor Density. Apply water while spreading or rolling the base course if required.
- 3.4 The final moisture content of the base course mixture in each layer just before compaction shall be not more than optimum moisture in order to obtain maximum density. The optimum moisture for the base course mixture and the maximum density of the compacted layers shall be determined by the Engineering Services Division.
- 3.5 Do not permit vehicular traffic over base course. If hauling over base course, maintain and repair the base course and cross-section as required to remedy surface deformations, ruts and over compacted wheel tracks. Provide all necessary protection of works and the safety of the public.
- 3.6 Protect the surface of the finished base from traffic and repair any damage arising there from.

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4.0 TOLERANCES

The surface of the granular base course shall be such that when tested with a 3 m straight edge placed on the surface of the roadway, the maximum deviation of the surface from the edge of the straight edge shall not exceed ± 10 mm. Deviations shall be neither consistently high nor consistently low.

5.0 MEASUREMENT AND PAYMENT

5.1 The following work items of this section shall be paid in accordance with the Contract Unit Prices, which shall be deemed full compensation for all labour, materials, equipment, supplies, superintendence, overhead and profit for all work incidental to the supply, installation, completion and maintenance during warranty period of the respective items:

- (I) Granular base shall be paid on the basis of measured square meters of specified base thickness. The Contract Unit Price shall be deemed to include all items of work in this section which shall be deemed incidental to a complete installation.