

307 – GRANULAR BASE

SECTION 307

GRANULAR BASE

307.1 DESCRIPTION

Construct a granular base on a prepared subgrade as shown in the Contract Documents.

BID ITEMS

Granular Base (*)
Water (Granular Base) (Set Price)
*Thickness

UNITS

Square Yard
M Gallon

307.2 MATERIALS

Provide materials that comply with the applicable requirements.

Aggregate for Granular Base **DIVISION 1100**
Water for Granular Base **DIVISION 2400**

307.3 CONSTRUCTION REQUIREMENTS

Recompact soft and yielding subgrade material. Do not place granular base on frozen subgrade. If the project has more than 20,000 square yards of manipulation, use automatic grade controlled equipment to trim the subgrade. In irregular areas, trim the subgrade by wetting, blading and rolling.

Use a stationary mechanical mixing plant to uniformly mix the water and aggregate. A motor grader with water truck, or rotary cross-shaft mixer with water delivery system may be used to mix aggregate and water when the original contract quantity is less than 15,000 square yards.

Mix the granular aggregate with sufficient water to allow compaction of the mixture to the specified density at ± 3 % of the optimum moisture content.

Immediately after mixing the aggregate and water, haul the mixture to the prepared subgrade, place the mixture full-lane width using an aggregate spreader, and compact the mixture. The Engineer will not allow placing of the base material on the prepared subgrade when conditions are such that the hauling and placing will damage the prepared subgrade. The maximum compacted thickness of any layer of granular base or shoulder is 6 inches. When the thickness is greater than 6 inches, spread and compact the aggregate in multiple lifts of equal thickness with a maximum lift thickness of 6 inches. Spread and compact the granular base as specified in the Contract Documents. Compact the granular base to a minimum of 95% of the standard density. Compact granular base placed more than 2 feet outside the edge of pavement to a minimum of 90% of the standard density.

Trim the compacted granular base to the lines and grades in the Contract Documents. Compact the surface of the granular base with a smooth-wheel or a pneumatic-tire roller. While performing final rolling, lightly scarify and blade the surface to eliminate equipment imprints.

Maintain density until paved. When paving is delayed and the granular base dries out, re-establish the specified dry density just prior to paving.

307.4 MEASUREMENT AND PAYMENT

The Engineer will measure granular base by the square yard.

The Engineer will measure water used for granular base by the M Gallon using calibrated tanks or water meters. The Engineer will measure water used for granular base preparation, mixing and compacting the granular base. The Engineer will not measure water used for dust control, water wasted through the Contractor's negligence, or water in excess of the quantity required for mixing and compacting the granular base.

Payment for "Granular Base" at the contract unit price and "Water (Granular Base) (Set Price)" at the contract set unit price is full compensation for the specified work.