

PART 1 - GENERAL

- 1.1 Related Work .1 Refer to other Specification Sections for related information.
- 1.2 Reference Standards .1 ASTM D698-91 (or latest edition) Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft) - Method C.
- 1.3 Measurement for Payment .1 Granular sub-base will be measured in accordance with **Section 01 29 00**.
- .2 Rock fill will be measured in accordance with **Section 01 29 00**.

PART 2 - PRODUCTS

- 2.1 Materials .1 Type 2 granular sub-base and rock fill material to **Section 31 05 17** and following requirements:
- .1 Crushed stone or gravel consisting of hard durable angular particles free from clay lumps, cementation, organic material, frozen material and other deleterious materials.
- .2 Type 2 granular sub base material gradation will be within the following limits:

ASTM SIEVE SIZE	% PASSING BY MASS
56 mm	100
28 mm	60 - 80
5 mm	25 - 45
0.160 mm	0 - 10

- .3 Rock fill shall be well graded 300 mm maximum size, free from fines and suitable for placement of granular sub base on top.

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**PART 3 - EXECUTION**

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**3.1 Inspection of  
Existing Sub-Base  
Surface**

- .1 Do not place new granular sub-base until underlying rock fill material is compacted, inspected and approved by the *Departmental Representative*.

**3.2 Placing**

- .1 Place material only on a clean unfrozen surface, properly shaped and compacted and free from snow or ice.
- .2 Place Type 2 and rock fill material to full width in uniform layers not exceeding 100 mm compacted thickness. *Departmental Representative* may authorize thicker lifts (layers) if specified compaction can be achieved.
- .3 Shape each layer to a smooth contour and compact to specified density before the succeeding layer is placed.
- .4 Remove and replace portion of a layer in which material has become segregated during spreading.

**3.3 Compacting**

- .1 Compact to density of not less than 98% maximum dry density in accordance with ASTM D698.
  - .2 Shape and roll alternately to obtain a smooth, even and uniformly compacted sub-base.
  - .3 Apply water as necessary during compaction to obtain specified density. If sub-base is excessively moist, aerate by scarifying with suitable equipment until moisture content is corrected.
  - .4 In areas not accessible to rolling equipment, compact to specified density with approved mechanical tampers.
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3.4 **Finish**Tolerances

- .1 Granular sub-base and rock fill material will be compacted to the thickness as required to attain the grades indicated on the drawings.
- .2 Finish compacted surface to within plus or minus 25 mm of established grade but not uniformly high or low.
- .3 Correct surface irregularities by loosening and adding or removing material until surface is within specified tolerance.

3.5 Maintenance

- .1 Maintain finished sub-base in condition conforming to this section until succeeding base is constructed, or until granular sub-base is accepted by *Departmental Representative*.
  - .2 *Departmental Representative* will pay costs for inspection and testing. Refer to **Section 01 45 00.**
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