

position will not be paid for. Placement and compaction will be paid for at the unit price bid for the type of construction requiring the use of selected material. No payment for stockpiling of selected material will be made.

19-2.07 Subgrade Preparation, Compaction

Reference is made to Sections 1-4, "Basement Material," 1-19, "Grading Plane," and 1-44, "Subgrade." Unless otherwise shown on the Plans or specified in the Contract Specifications, for streets divided by a concrete median island, the grading plane extends from the back of the concrete curb and gutter adjacent to the outside travel lane, parking lane, or bicycle lane (the "outside curb and gutter"), to the back of the concrete median curb. For streets not divided by concrete median island, the grading plane extends from the back of one outside curb and gutter to the back of the opposite outside curb and gutter. For alleys, trails, paths, or other places to receive an improved surface, the grading plane shall extend 12 inches beyond (right of way permitting) either side of the planned finish surface.

The preparation and compaction of the subgrade below the grading plane to receive subbase, aggregate base, asphalt-concrete, concrete or other paving materials shall consist of the following:

The soil material beneath the grading plane shall be bladed or disked to a depth of 6 inches and all rocks, hardpan chunks or otherwise unsuitable material over 2 inches in greatest dimension, shall be removed and disposed of off the project site in accordance with Section 5-12, "Disposal of Material Outside the Right of Way."

The material thus disced or bladed shall be thoroughly mixed, watered and rolled to a smooth and even condition to a relative compaction of not less than 95 percent in compliance with Sections 6-8, "Samples and Tests," and 6-9, "Compaction Tests," to a depth of not less than 6 inches below the grading plane or as otherwise shown on the Plans or Standard Drawings or specified in the Contract Specifications.

Any soft, spongy or otherwise unstable areas shall be repaired by completely removing the material and replacing it with acceptable materials in accordance with these Specifications, **at the Contractor's expense**. Before subbase, aggregate base, asphalt-concrete, concrete or other paving material is placed, the Engineer may require, at the Contractor's expense, a test roller of size and weight as approved by the Engineer to pass over the finished subgrade to ascertain that there are no such soft or spongy areas.

No subsequent layer of a structural section shall be placed until the finished subgrade is in a stable condition satisfactory to the Engineer, regardless if said subgrade passed any prior compaction test. Any trenches cut for pipelines or conduit installation after the subgrade or any other layer of the roadway prism has been stabilized, shall be compacted in compliance with Section 19-3.03(E), "Compaction," herein. It shall be the Contractor's responsibility to assure that others doing work within the area under his control, including subcontractors, utility and communications contractors, comply with this provision.

The relative compaction of the top 6 inches of subbase under curb returns including the landing, driveway approaches including adjacent sidewalk, valley gutters, paved trails, and alleys shall be no less than 95 percent.

No compaction test of subgrade shall be made until such time as the subgrade is finished to within 1 inch (high) of finished subgrade. The Contractor shall notify the Engineer when the subgrade is ready for compaction testing, and the City Engineer will notify the appropriate testing laboratory designated