

DIVISION 11

AGGREGATE BASE

11.01 Description:

The work shall consist of an aggregate base of one or two courses, placed on the prepared subgrade to the dimensions shown on the plans.

11.02 Materials:

Aggregate for aggregate base shall be obtained only from approved stockpiles.

For construction on all local streets and major streets, materials shall meet the requirements of the current Michigan Department of Transportation Specifications for Road and Bridge Construction, "Coarse Aggregate 21AA – Modified". The material shall be crushed limestone meeting the 21AA Course Aggregate gradation. Crushed concrete shall not be used in place of crushed limestone without prior approval of the Engineer.

11.02.01 Inspection – The aggregate will be inspected at the source and at the project and may be rejected or accepted at either location.

The City will sample and test the Aggregate once. Cost for additional tests will be billed to the Contractor.

11.03 Construction Methods:

11.03.01 General – Aggregate base is designed to serve as a base for bituminous concrete pavement.

11.03.02 Aggregate Base

- (a) Placing Gravel – When the aggregate base is to be constructed in one course, the aggregate shall be spread uniformly on the prepared subgrade in single layers, maximum depth four (4") inches when thoroughly compacted. Hauling and placing operations shall be performed in such a manner that they will not rut nor otherwise damage the prepared subgrade. Aggregate shall not be placed on an excessively wet subgrade.
- (b) Aggregate Base Tolerance – The surface of aggregate base shall be trimmed and compacted to the specified cross-section within a tolerance of plus or minus three-

eighths (+/- 3/8") of an inch in ten (10') feet. Grade trimming shall be performed with a motor grader having a wheelbase of seventeen (17') feet or greater.

- (c) Finishing Rolling – When the gravel has been compacted as specified, the surface shall be finished smooth by rolling with a self-propelled smooth-wheel roller of not less than eight tons gross weight. Such rolling shall be continued until the surface is thoroughly compacted to a minimum density of one hundred percent (100%) of maximum unit weight and conforms to the required crown and grade. Vibratory compactors shall only be allowed at the discretion of the Engineer.
- (d) Two-Course Aggregate Base – When the aggregate base is to be constructed in two courses, the spreading and compacting of the aggregate in each course shall be performed as specified in paragraphs (a) and (b) for a one-course aggregate base. The surface of the top course shall be finished as specified in paragraph (c).

11.03.03 Aggregate Base in Narrow Trenches – When the trench width is less than six (6') feet at grade it shall be considered a narrow trench. Before any gravel is placed in the trench, the aggregate shall be spread and compacted as specified in paragraphs 11.03.02 (a) and (b).

11.04 Method of Measurements:

“Aggregate Base” will be measured by area in square yards for the specified thickness.

11.05 Basis of Payment:

“Aggregate Base,” of the designated thickness, will be paid for at the contract unit price per square yard, which price shall be payment in full for furnishing all materials, labor, and equipment, and constructing the aggregate base as specified.