

DIVISION 2 – SITE WORK

SECTION 02227

AGGREGATE MATERIALS

PART 1 GENERAL

1.01 SECTION INCLUDES

Aggregate Materials

1.02 RELATED SECTIONS

- A. Section 02100 – Site Preparation
- B. Section 02200 - Earthwork
- C. Section 02222 – Excavation, Backfill and Compaction for Pavement
- D. Section 02270 – Slope Protection and Erosion Control
- E. Construction Drawings
- F. Geotechnical Engineering Report dated March 19, 2012 By Geotechnical Testing Laboratory, Inc.

1.03 REFERENCE STANDARDS

- A. American Society for Testing and Materials (ASTM) latest edition.
 - ANSI/ASTM C136 - Method for Sieve Analysis of Fine and Coarse Aggregates.
 - ANSI/ASTM D698 - Test Methods for Moisture-Density Relations of Soils and Soil-aggregate Mixtures, Using 5.5 lb (2.49 Kg) Rammer and 12 inch (304.8 mm) Drop.
 - ANSI/ASTM D1557- Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10 lb (4.54 Kg) Rammer and 18 inch (457 mm) Drop.
 - ASTM D2167 - Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
 - ASTM D2487 - Classification of Soils for Engineering Purposes.
 - ASTM D2922 - Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
 - ASTM D3017 - Test Methods for Moisture Content of Soil and Soil- Aggregate Mixtures.
 - ASTM D4318 - Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils.
- B. American Association of State Highway and Transportation Officials (AASHTO) latest edition.
 - AASHTO T180 - Moisture-Density Relations of Soils Using a 10-lb (4.54 Kg) Rammer and an 18 inch (457 mm) Drop.
 - AASHTO M147 - Materials for Aggregate and Soil-Aggregate.

1.04 QUALITY ASSURANCE

Tests and analysis of aggregate material will be performed in accordance with standard ASTM and AASHTO procedures listed herein.

1.05 SUBMITTALS

- A. Submit in air tight containers a 10 pound sample of each aggregate or mixture that is to be incorporated into the project to the testing laboratory designated by the owner.
- B. Submit the name of each material supplier and specific type and source of each material. Any change in source throughout the job requires approval of the owner and engineer.
- C. Submit materials certificate to on-site independent testing laboratory that is signed by material producer and Contractor, certifying that materials comply with, or exceed, the requirements herein.

PART 2 PRODUCTS

2.01 MATERIALS

- A. All construction and materials shall meet or exceed the requirements of this section and any state highway department specification section referred to or noted on the drawings that pertain to paving base course design, materials, preparation, and/or execution. All materials shall be as indicated on Drawings and shall comply with applicable state highway specification regarding source, quality, gradation, liquid limit, plasticity index, and mix proportioning. Crushed stone base course material shall meet LDOTD, Section 1003.03(d), or AHD Classification SB-2.

PART 3 EXECUTION

3.01 STOCKPILING

Stockpile on-site at locations indicated by the owner in such a manner that there will be no standing water or mixing with other materials.

3.02 BORROW SITES

Upon completion of borrow operations, clean up borrow areas as indicated on the plans in a neat and reasonable manner to the satisfaction of the property owner, the owner and the engineer.

3.03 TRANSPORTATION

Off-site materials shall be transported to the project using well maintained and operating vehicles. Once on the job site, all transporting vehicles shall stay on designated haul roads and shall at no time endanger any of the improvements by rutting, overloading or pumping the haul road.

END OF SECTION 02227