301-R-789 AGGREGATE BASE

(Adopted 08-15-24)

The Standard Specifications are revised as follows:

SECTION 301, BEGIN LINE 1, DELETE AND INSERT AS FOLLOWS:

SECTION 301 – AGGREGATE BASE

301.01 Description

This work shall consist of placing coarse aggregate on a prepared grade in accordance with 105.03.

MATERIALS

301.02 Materials

Materials shall be in accordance with the following:

Coarse Aggregate, Class D or Higher 904.03
Geosynthetic Materials.....918

~~ACBF shall not be used for subgrade treatment Type ID, Type IV, and Type IVA.~~ *Recycled concrete pavement processed into coarse aggregate-sized material, No. 53, and ACBF, shall not be used when an underdrain is specified.*

CONSTRUCTION REQUIREMENTS

301.03 Preparation of Subgrade

Subgrade shall be prepared *and proofrolled* in accordance with 207.04. *When shown on the plans, geosynthetics shall be placed in accordance with 214.03, or as directed.* Proofrolling will not be required in trench sections and other areas where proofrolling equipment cannot be used.

301.04 Temperature Limitations

Aggregate shall not be placed when the air temperature is less than 35 °F. ~~Aggregate shall not be placed on a frozen subgrade.~~ Frozen aggregate shall not be placed. *Aggregate shall not be placed on frozen subgrade, subbase, or aggregate base.*

301.05 Spreading

The moisture content of the aggregate shall be between 4% and~~ the optimum moisture content when the aggregate is delivered to the project~~ *7%. If necessary, the Contractor shall adjust the water content to meet the compaction requirement.*~~ Unless otherwise directed, water shall not be added to the aggregate on the grade.~~

Aggregate shall be spread in uniform lifts with a spreading and leveling device approved by the Engineer. The spreading and leveling device shall be capable of placing aggregate to the depth, width, and slope specified. *The material shall be placed with spreading equipment, such as a spreader box or paver, capable of placing the material true to line and grade. The material shall be spread such that it minimizes segregation and requires minimal blading or manipulation.* The compacted depth of each lift shall be ~~a~~

~~minimum of 3 in. and~~ a maximum of 6 in.

Aggregate shall be *transported,* handled*,* and ~~transported~~*compacted* to minimize segregation and the loss of moisture. ~~In areas inaccessible to mechanical equipment, each lift shall be 3 in. and an approved hand spreading method may be used.~~*Aggregate shall be spread in uniform lifts with a spreading and leveling device as approved by the Engineer.*

The Contractor may use hand-placing methods, dozers, or graders in small areas, areas of subgrade construction, or where spreading equipment is impractical. Small areas include lane widths less than 12 ft or lengths less than 1,000 ft. In small areas, or areas inaccessible to spreading equipment, each lift shall be a maximum of 4 in.

The material shall be placed in two or more approximately equal lifts when the specified compacted thickness exceeds the maximum allowed.

301.06 Compacting

Each lift shall be compacted immediately after spreading. Dense graded aggregate shall be compacted to achieve the allowable average deflection as determined with LWD testing in accordance with 203.24(b).

The allowable average deflection *and the maximum deflection* for aggregate over the chemically modified soils*,* ~~and~~ untreated soils*, and cement stabilized subgrade soils* shall be in accordance with the Tables shown in 203.24(b). *The test section shall be constructed in accordance with ITM 514 for other materials not included in the table shown in 203.24(b).*

As an alternate *to LWD*, aggregates shall be compacted to a minimum of 100% of the maximum dry densities in accordance with AASHTO T 99. In situ density will be determined in accordance with 203.24(b). Aggregate shall meet the compaction requirements at the time subsequent courses are placed.

~~Coarse graded aggregates shall be compacted in accordance with 203.25.~~

In areas inaccessible to compaction equipment, such as private drives and mailbox approaches, the compaction requirements may be accepted by visual inspection.

All displacement or rutting of the aggregate shall be repaired prior to placing subsequent material.

301.07 Checking and Correcting Base

The top of each aggregate course shall be checked transversely to the cross section and all deviations in excess of 1/2 in. shall be corrected. If additional aggregate is required, the course shall be remixed and re-compacted.

~~**301.08 Priming**~~

~~A prime coat, when required, shall be in accordance with 405.~~

301.~~09~~*08* Method of Measurement

Compacted aggregate base will be measured by the cubic yard based on the

theoretical volume to the neat line as shown on the plans. ~~Geotextiles~~*Geosynthetics* will be measured in accordance with ~~616.12~~*214.05*.

301.~~10~~*09* Basis of Payment

The accepted quantities of compacted aggregate base will be paid for at the contract unit price per cubic yard, complete in place. ~~Geotextiles~~*Geosynthetics* will be paid for in accordance with ~~616.13~~*214.06*.

Payment will be made under:

Pay Item	Pay Unit Symbol
Compacted Aggregate, No. 2	CYS
Compacted Aggregate, No. 5	CYS
Compacted Aggregate, No. 8	CYS
Compacted Aggregate, No. 53	CYS

The cost of placing, *spreading,* compacting, water, aggregate placed outside neat lines as shown on the plans, and necessary incidentals shall be included in the cost of the pay item.

Payment will not be made for material placed outside of a 1:1 slope from the planned typical section.

Replacement of pavement damaged by the Contractor's operations shall be at no additional payment.