*INCLUDE SECTION 703 AS NEEDED BASED ON CLAUSE INSTRUCTIONS*

*REMOVE ITALICS, BOLDING, AND PARENTHESES FROM INSERT FIELDS*

$$703.00A

Section 703. — AGGREGATE

Revised 30 November 2020

*INCLUDE THE FOLLOWING FOR ALL WORK THAT REQUIRES CONCRETE (INCLUDE FOR ALL PROJECTS WITH 203, 255, 260, 501, 502, 552, 568, 569, 601, 604, 608, 609, 615, 616, 617, 619, 620, 621, 633, AND 636 PAY ITEMS)*

$$703.02A

703.02. Add the following:

Do not use gravel.

*INCLUDE CLAUSES $$703.05A AND $$703.05F FOR SUBBASE, BASE, AND SURFACE COURSE AGGREGATES (INCLUDE FOR ALL PROJECTS WITH 301, 309, AND 311 PAY ITEMS)*

$$703.05A

703.05(a). Delete the text of Subsections **(3)** and **(4)**; they are not required.

$$703.05F

703.05(a). Add the following:

**(7)** California bearing ratio as determined by ## percent min.

AASHTO T 193 at 95 percent of maximum dry

density in accordance with AASHTO T 180 (Method D).

*(obtain CBR value from Materials Engineer or Pavements)*

*INCLUDE THE FOLLOWING IF ALLOWING THE CONTRACTOR THE OPTION OF USING A STATE GRADATION FOR SUBBASE AND AGGREGATE BASE ONLY (SEE CLAUSE $$301.03B) - DO NOT INCLUDE FOR SURFACE COURSE AGGREGATE (SEE INSTRUCTIONS FOR CLAUSE $$703.05D) (INCLUDE FOR ALL PROJECTS WITH 301 AGGREGATE BASE ONLY AND 309 PAY ITEMS - DO NOT INCLUDE FOR 311 PAY ITEMS) (IF USED, ALSO INCLUDE CLAUSE $$301.03B)*

$$703.05B

703.05(b)(1). Add the following:

The gradation only of the aggregate base may conform to the requirements of the current edition of the *(insert State Agency and Specification Book name)*, *(insert acceptable State aggregate gradation -* ***obtain from the Materials Engineer****)*, found at *(insert link to the* ***website*** *containing the State Specification Book* ***not a direct link to the spec book****)* subject to the approval of the CO. Conform to the requirements of Subsections 703.05(a) and 703.05(b) for all other properties. Submit the request according to Subsection 301.03.

*INCLUDE THE FOLLOWING FOR SUBBASE AND AGGREGATE BASE - DO NOT INCLUDE FOR SURFACE COURSE AGGREGATE (INCLUDE FOR ALL PROJECTS WITH 301 AGGREGATE BASE ONLY AND 309 PAY ITEMS - DO NOT INCLUDE FOR 311 PAY ITEMS)*

$$703.05C

703.05(b). Add the following:

**(3)** Plasticity index, AASHTO T 90 3 max.

*INCLUDE THE FOLLOWING IF ALLOWING THE CONTRACTOR THE OPTION OF USING A STATE GRADATION FOR AGGREGATE SURFACE COURSE ONLY (SEE CLAUSE $$301.03B) - DO NOT INCLUDE FOR SUBBASE AND AGGREGATE BASE (SEE INSTRUCTIONS FOR CLAUSE $$703.05B) (INCLUDE FOR ALL PROJECTS WITH 301 AGGREGATE SURFACE COURSE ONLY AND 311 PAY ITEMS) (IF USED, ALSO INCLUDE CLAUSE $$301.03B)*

$$703.05D

703.05(c). Add the following:

The gradation only of the aggregate surface course may conform to the requirements of the current edition of the *(insert State Agency and Specification Book name)*, *(insert acceptable State aggregate gradation -* ***obtain from the Materials Engineer****)*, found at *(insert link to the* ***website*** *containing the State Specification Book* ***not a direct link to the spec book****)* subject to the approval of the CO. Conform to the requirements of Subsections 703.05(a) and 703.05(c) for all other properties. Submit the request according to Subsection 301.03.

*INCLUDE THE FOLLOWING FOR SUBBASE, BASE, AND SURFACE COURSE AGGREGATES (INCLUDE FOR ALL PROJECTS WITH 301, 309, AND 311 PAY ITEMS) (IF USED, ALSO INCLUDE CLAUSE $$301.03B)*

$$703.05E

703.05. Add the following:

|  |  |  |
| --- | --- | --- |
| **Table 703-2A**  **State Department of Transportation Gradation**  **Allowable Deviation Based on Target Value** | | |
| **Percent by Mass Passing** | | **Allowable**  **Deviation** |
| **Minimum** | **Maximum** |
| 90.1 | 100.0 | 6 |
| 80.1 | 90.0 | 8 |
| 30.1 | 80.0 | 8 |
| 20.1 | 30.0 | 8 |
| 10.1 | 20.0 | 6 |
| 0 | 10.0 | 4 |

*INCLUDE THE FOLLOWING FOR AGGREGATE-TOPSOIL COURSES < 1 ½ INCHES IN DEPTH (INCLUDE FOR ALL PROJECTS WITH 313 PAY ITEMS WITH A TYPICAL SECTION OF LESS THAN 1-½ INCH-DEPTH)*

$$703.13A

703.13. Delete the Subsection and substitute the following:

**703.13 Aggregate for Aggregate-Topsoil Course.** Conform to AASHTO M 80, Class E and AASHTO M 43, Size Number 67.

*INCLUDE THE FOLLOWING IF CRUSHED RECYCLED CONCRETE IS ALLOWED IN SECTION 615 SIDEWALKS, PADS, AND PAVED MEDIANS - VERIFY WITH MATERIALS ENGINEER IF CLAUSE IS APPROPRIATE TO USE (IF USED, ALSO INCLUDE CLAUSES $$615.02A, $$615.03A, AND $$615.07A)*

$$703.18A

Add the following after Subsection 703.17:

**703.18 Crushed Recycled Concrete.** Furnish a recycled material consisting of crushed concrete free of reinforcing steel and wire, organic matter, lumps or balls of clay, and other deleterious matter. Do not use composite recycled material with a recycled mortar and brick content of more than 10 percent. Do not use material that breaks up when subjected to freeze-thaw cycles. Conform to the following:

**(a)** Los Angeles abrasion, AASHTO T 96 50 percent max.

**(b)** Liquid limit, AASHTO T 89 25 max.

**(c)** Plasticity index, AASHTO T 90 6 max.

**(d)** California bearing ratio as determined by ## percent min.

AASHTO T 193 at 95 percent of maximum dry

density in accordance with AASHTO T 180 (Method D)

*(obtain CBR value from Materials Engineer or Pavements)*

**(e)** Gradation. Furnish a gradation conforming to crushed recycled concrete material normally used locally in the construction and maintenance of highways by Federal or state agencies. Furnish a well-graded crushed recycled material with a maximum size of 2 inches and not more than 12 percent passing the No. 200 sieve as determined by AASHTO T 27 and AASHTO T 11.