1 2	SECTION 1006 AGGREGATE QUALITY CONTROL/QUALITY ASSURANCE						
3 4 5 6 7 8 9	The Aggregate QC/QA Program is designed to give aggregate producers more responsibility for controlling the quality of material they produce and to use the quality control information they provide in the acceptance process by the Department. It requires aggregate producers to perform quality control sampling, testing and record keeping on aggregates they ship for use by the Department. It requires the Department to perform quality assurance sampling, testing and record keeping confirming the performance of the producers' control plan. The program is described in the <i>Aggregate QC/QA Program Manual</i> .						
10 11	Participation in this program does not relieve the producer of the responsibility of complying with all requirements of the Department's <i>Standard Specifications</i> .						
12 13	SECTION 1008 AGGREGATE FOR STABILIZATION						
14	1008-1 AGGREGATE STABILIZATION						
15	(A) General						
16 17	Aggregates consist of crushed stone, crushed gravel, uncrushed gravel or other similar material having hard, strong, durable particles free of adherent coatings.						
18 19 20 21 22 23	Supply aggregates from approved sources participating in the Department's Aggregate QC/QA Program in accordance with Sections 1005 and 1006. Sources will not be approved unless the material has satisfactory soundness and satisfactory resistance to abrasion. Satisfactory soundness will be a loss in weight of not greater than 15% when subject to 5 alternations of the soundness test. Satisfactory resistance to abrasion will be a percentage of wear of not greater than 55%.						
24	B) Sampling and Acceptance						
25 26 27	Sampling and acceptance for the determination of gradation, LL and PI will be performed as described in the <i>Aggregate QC/QA Program Manual</i> and the <i>Aggregate Sampling Manual</i> using the versions in effect at the time material is shipped.						
28	SECTION 1010						
29	AGGREGATE FOR NON-ASPHALT TYPE BASES						
30	1010-1 AGGREGATE BASE COURSE						
31	(A) General Requirements						
32 33 34	Aggregate base course material consists of crushed stone, crushed gravel, uncrushed gravel or other similar material having hard, strong, durable particles free of adherent coatings.						
35 36 37 38 39 40	Provide aggregates from approved sources participating in the Department's Aggregate QC/QA Program in accordance with Sections 1005 and 1006. Sources will not be approved unless the material has satisfactory soundness and resistance to abrasion. Satisfactory soundness will be a weighted average loss of not greater than 15% when subjected to five alternations of the soundness test. Satisfactory resistance to abrasion will be a percentage of wear of not greater than 55%.						
4 1	(B) Sampling and Acceptance						
42 43 44	Sampling and acceptance for the determination of gradation, LL and PI will be performed as described in the <i>Aggregate QC/QA Program Manual</i> and the <i>Aggregate Sampling Manual</i> using the versions in effect at the time material is shipped.						

1	1010-2	ACCRECATE I	OR PLANT	MIXED CEMENT T	FREATED BASE	COURSE
1	1010-2	AUGILUALLI	ON LLANT.		INDATED DASE	COUNSE

Provide aggregate meeting Article 1010-1, except as modified herein. Sources of aggregate will not be approved unless the material has a percentage of wear of not greater than 65%.

SECTION 1012 AGGREGATE FOR ASPHALT PAVEMENTS AND SURFACE TREATMENTS

1012-1 AGGREGATE FOR ASPHALT PLANT MIXES

(A) General

Design the asphalt plant mix with coarse and fine aggregate that meet Section 1005, except as noted herein. Size, uniformly grade and combine the aggregate fractions in such proportions that the resulting mixture meets the grading and physical requirements of these Specifications for the specified mix type. Materials that will not produce a mixture within the design criteria required by these Specifications will be rejected, unless otherwise approved.

The consensus property criteria in Table 1012-1 apply to the design aggregate blend. Source property criteria apply to individual aggregate sources.

For all dense-graded surface course mixes, that are the top or final layer, limit the amount of coarse aggregate or fine aggregate produced from crystalline limestone, crystalline-dolomitic limestone or marble to no more than 50% of the total amount of coarse aggregate or fine aggregate in the asphalt mixture. For open-graded asphalt friction course and ultra-thin bonded wearing course, do not use aggregates produced from crystalline limestone, crystalline-dolomitic limestone or marble.

(B) Coarse Aggregate

(1) General

Use coarse aggregate consisting of crushed stone, crushed gravel, a mixture of uncrushed gravel with either crushed stone or crushed gravel or other inert material having similar characteristics. Provide coarse aggregate composed of clean, tough, durable fragments free from an excess of flat or elongated pieces and free of organic matter and deleterious substances.

Use coarse aggregate from sources participating in the Department's Aggregate QC/QA Program as described in Section 1006. A list of sources participating in the Department's Aggregate QC/QA Program in North Carolina and adjoining states is available from the Materials and Tests Unit in Raleigh.

(2) Gradation

Use standard size coarse aggregate meeting Table 1005-1 and these *Standard Specifications* unless otherwise approved.

(3) Coarse Aggregate Angularity (Fractured Faces)

Use coarse aggregate meeting Table 1012-1 for coarse aggregate angularity (fractured faces) when tested in accordance with ASTM D5821.

(4) Flat and Elongated Pieces

Use coarse aggregate meeting Table 1012-1 for flat and elongated pieces when tested in accordance with ASTM D4791 on the No. 4 sieve and larger with a 5:1 aspect ratio (maximum to minimum) for all pavement types, except there is no requirement for Types S4.75A, SF9.5A and S9.5B.