

1110 - AGGREGATES FOR SUBGRADE MODIFICATION OR RECONSTRUCTION

SECTION 1110

AGGREGATES FOR SUBGRADE MODIFICATION OR RECONSTRUCTION

1110.1 DESCRIPTION

This specification covers the required types of aggregates for use in subgrade modification or reconstruction operations as shown in the Contract Documents.

1110.2 REQUIREMENTS

a. Composition. Provide one of the types of aggregate for subgrade modification or reconstruction as shown in **TABLE 1110-1**.

b. Quality¹.

- Soundness², minimum (KTMR-21) 50%
- Wear³, maximum (KTMR-25) 0.85

¹Crushed aggregates with less than 10% material retained on the No. 4 sieve (excluding mineral filler supplements) must be produced from a source complying with the official quality requirements of this Section prior to crushing.

²The above requirements for soundness do not apply for aggregates having less than 10% material retained on the No. 4 sieve.

³The above requirements for wear do not apply to aggregates having less than 10% material retained on the No. 8 sieve.

c. Product Control.

(1) Size and Plasticity. Provide aggregate that complies with **TABLE 1110-1**. Determine the grading factor in accordance with the procedures listed in Part V, Section 5.17.07.

TABLE 1110-1: GRADING AND PLASTICITY REQUIREMENTS									
Type	Material	Percent Retained-Square Mesh Sieves ¹							Plasticity Index ²
		1 ½"	1"	¾"	3/8"	No. 4	No. 16	No 50	
SR-1	Crushed Stone	0	0-15			35-100		90-100	0-6
SR-3	Crushed Stone Screenings ³	0			0-5				0-5
SR-4	Sand-Gravel ⁴		0	0-5	0-20				0-6
SR-7	Sand-Gravel	0					5-50	85-100	0-6

¹After removal of all deleterious substances.

²This requirement does not apply if there is more than 70% retained on the No. 30 sieve.

³Do not exceed 7% of moisture contained in the aggregate when delivered to the road.

⁴Grading Factor is between 4.00-5.00.

(2) Deleterious Substances. Do not exceed the following percentages of deleterious substances by weight:

For crushed stone and sand-gravel:

- Material passing No. 200 sieve (KT-2) 15.0
- Shale or shale-like material (KT-8) 3.0
- Clay lumps & friable material (KT-7) 3.0
- Sticks (wet) (KT-35) 1.0

For limestone or sandstone screenings:

- Material passing No. 200 sieve (KT-2) 15.0

d. Stockpiling. Stockpile and handle aggregates in such a manner to prevent detrimental degradation and segregation, the incorporation of appreciable amounts of foreign material, and the intermingling of stockpiled materials.

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1110.3 TEST METHODS

Test aggregates according to the applicable provisions of **SECTION 1115**.

1110.4 PREQUALIFICATION

Prequalify aggregate sources according to **subsection 1101.4**.

1110.5 BASIS OF ACCEPTANCE

Aggregates covered by this subsection are accepted based on the procedures described in **subsection 1101.5**.