#### 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.** Quality<sup>1</sup>.

- Wear<sup>3</sup>, maximum (AASHTO T 96) .......50%

#### 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 5.10.5-Fineness Modulus of Aggregates (Gradation Factor).

TABLE 1110-1: GRADING AND PLASTICITY REQUIREMENTS										
Type	Material	Percent Retained-Square Mesh Sieves <sup>1</sup>								Plasticity
		1 ½"	1"	3/4"	3/8"	No. 4	No. 16	No. 50	No. 200	Index <sup>2</sup>
SR-1	Crushed Stone	0	0-15			35-100		85-100	85-100	0-6
SR-3	Crushed Stone Screenings <sup>3</sup>	0			0-5				85-100	0-5
SR-4	Sand-Gravel <sup>4</sup>		0	0-5	0-20				85-100	0-6
SR-7	Sand-Gravel	0					5-50	85-100	85-100	0-6

<sup>&</sup>lt;sup>1</sup>After removal of all deleterious substances.

(2) Deleterious Substances. Do not exceed the following percentages of deleterious substances by weight: For crushed stone and sand-gravel:

	_	
•	Shale or shalelike material (KT-8)	3.0

**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.

## 1110.3 TEST METHODS

Test aggregates according to the applicable provisions of SECTION 1115.

<sup>&</sup>lt;sup>1</sup>Crushed 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.

<sup>&</sup>lt;sup>2</sup>The above requirements for soundness do not apply for aggregates having less than 10% material retained on the No. 4 sieve.

<sup>&</sup>lt;sup>3</sup>The above requirements for wear do not apply to aggregates having less than 10% material retained on the No. 8 sieve.

<sup>&</sup>lt;sup>2</sup>This requirement does not apply if there is more than 70% retained on the No. 30 sieve.

<sup>&</sup>lt;sup>3</sup>Do not exceed 7% of moisture contained in the aggregate when delivered to the road.

<sup>&</sup>lt;sup>4</sup>Grading Factor is between 4.00-5.00.

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# 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.