

## 904-R-663 AGGREGATES FOR HMA MIXTURES

(Adopted 07-19-17)

The Standard Specifications are revised as follows:

SECTION 904, BEGIN LINE 113, DELETE AND INSERT AS FOLLOWS:

**(b) For HMA Mixtures**

Fine aggregates for use in HMA shall be natural sand or crushed limestone, dolomite, gravel, sandstone, SF, or ACBF. SF sand may be used ~~only~~ in HMA surface mixtures. *SF sand may only be used in HMA base and HMA intermediate mixtures if SF in accordance with 904.01 is used to produce the SF sand.* The amount of crushed limestone sand shall not exceed 20% *by volume* of the total aggregate used in HMA surface mixtures with ESAL equal to or greater than 3,000,000, except limestone sands manufactured from aggregates on the Department's list of approved Polish Resistant Aggregates will not be limited. If soundness testing cannot be conducted, the aggregate shall come from a Category I source in accordance with ITM 203.

SECTION 904, BEGIN LINE 245, INSERT AS FOLLOWS:

**1. HMA Coarse Aggregate**

- a. ESAL Category 2 and type B surface mixtures. All coarse aggregate types including ACBF slag, SF slag, sandstone, crushed dolomite, polish resistant aggregate, crushed stone and gravel may be used.
- b. ESAL Category 3 and type C surface mixtures. ACBF slag, SF slag, sandstone, crushed dolomite, polish resistant aggregate or any combination thereof shall be used. Crushed stone or gravel shall not be used unless the aggregate is classified as a crushed dolomite or polish resistant aggregate.
- c. ESAL Category 4 and type D surface mixtures. High friction aggregates including ACBF slag, SF slag, sandstone or aggregates in accordance with ITM 221 shall be used.

Crushed dolomite and polish resistant aggregates may be used up to a maximum 50% by volume of *the coarse aggregate* material retained on the No. 4 (4.75 mm) sieve when blended with a high friction aggregate.

Crushed stone and gravel may be used up to a maximum 20% by volume of *the coarse aggregate* material retained on the No. 4 (4.75 mm) sieve when blended with a high friction aggregate.