



*Florida Department of Transportation*

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January 13, 2015

Khoa Nguyen  
Director, Office of Technical Services  
Federal Highway Administration  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

Re: State Specifications and Estimates Office  
Section **915**  
Proposed Specification: **9150000 Cemented Coquina Shell Material.**

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by John Shoucair of the State Materials Office (SMO) to move the language from Section 915 to Section 911 in order to consolidate all materials used for base and stabilized base into one Section. Section 915 will be deleted.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965DS or daniel.scheer@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Daniel Scheer, P.E.  
State Specifications Engineer

DS/dt

Attachment

cc: Florida Transportation Builders' Assoc.  
State Construction Engineer

**CEMENTED COQUINA SHELL MATERIAL.**  
**(REV 10-4-14)**

SECTION 915 is deleted.

**SECTION 915**  
**CEMENTED COQUINA SHELL MATERIAL**

**915-1 Composition.**

~~———— Cemented coquina shell materials to be used as cemented coquina base or stabilized base, shall be defined as naturally occurring deposits formed essentially of broken mollusk shell, corals and the skeletal remains of other marine invertebrates, which are presently found as “dry land” deposits and which have been cemented together by carbonates or other natural cementing agents.~~

~~———— Approval of mineral aggregate sources shall be in accordance with 6-2.3.~~

**915-2 Deleterious Substances.**

~~———— Cemented coquina shell materials shall be reasonably free of lumps of clay, organic matter, and other substances not defined which may possess undesirable characteristics. The material shall not contain loose, free silica sand in sufficient quantity to prevent bonding.~~

**915-3 Physical and Chemical Properties.**

~~———— Cemented coquina shell shall meet the following physical and chemical properties.~~

~~———— Limerock Bearing Ratio (LBR) (FM 515) — The material shall have an average LBR value of not less than 100. Material represented by any individual LBR value of less than 90 is unacceptable.~~

~~———— Plasticity (FM 1-T089 and FM 1-T090) — That portion of the material passing the No. 40 sieve shall be non-plastic.~~

~~———— Carbonates (FM 5-514) — The average percentage of carbonates of calcium and magnesium shall be 45%. Material represented by any individual carbonate and magnesium LOT average of less than 40.5% is unacceptable.~~

**915-4 Gradation requirements.**

~~———— Cemented coquina shall have the following gradation requirements:~~

Passing 3-1/2 inch sieve	97% (maximum dimension not to exceed 6 inches)
Passing No. 4 sieve	maximum 70%
Passing No. 200 sieve (dry weight)	maximum 20% (by washing)

**915-5 Exceptions, Additions and Restrictions.**

~~———— Other specification modifications, based on material usage, may be found in applicable Sections of the specifications, or revisions thereto.~~

**CEMENTED COQUINA SHELL MATERIAL.**  
**(REV 10-4-14)**

SECTION 915 is deleted.