

ORIGINATION FORM

Date: March 9, 2012

Originator: John Shoucair

Contact Information: john.shoucair@dot.myflorida.com

Specification Title: 901

Specification Section, Article, or Subarticle Number: 901-1.4 Gradation

Why does the existing language need to be changed? To complete a Materials Bulletin 04-12 /Construction Memorandum 05-12

Summary of the changes: In Table 1, "Amount Finer than Each Laboratory Sieve (Square Openings), weight percent" is changed for Size No. 89 on the No. 8 Sieve from "5 to 30" to "0 to 30."

Are these changes applicable to all Department jobs? If not, what are the restrictions?
Applicable to all Department jobs.

Will these changes result in an increase or decrease in project costs? If yes, what is the estimated change in costs? Decrease. Aggregate Producers now have more flexibility in making a very important material for the Department.

With who have you discussed these changes? The changes were reviewed and approved by Tim Ruelke, Director, Office of Materials, David Sadler Director, Office of Construction, Rafiq Darji, FHWA and Mike Bergin, State Structural Materials Engineer.

What other offices will be impacted by these changes? District Materials Office who inspect aggregates at concrete plants.

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? No.

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? No. The Materials Bulletin/Construction Memorandum is already in place.

Contact the State Specifications Office for assistance in completing this form.
Frances Thomas 850-414-4101 frances.thomas@dot.state.fl.us
Debbie Toole 850-414-4114 deborah.toole@dot.state.fl.us
Andy Harper 850-414-4127 clifton.harper@dot.state.fl.us



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: March 9, 2012
TO: Specification Review Distribution List
FROM: Duane Brautigam, Director, Office of Design
SUBJECT: Proposed Specification: **9010104 Coarse Aggregate.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by the State Construction Office and the State Materials Office to change the gradation requirement for Coarse Aggregate Size No. 89 on the No. 8 sieve. (See Materials Bulletin No. 04-12/Construction Memorandum No. 05-12)

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DB or duane.brautigam@dot.state.fl.us. Comments received after **April 6, 2012**, may not be considered. Your input is encouraged.

DB/dt
Attachment

COARSE AGGREGATE.
(REV 2-9-12)

SUBARTICLE 901-1.4 (of the Supplemental Specifications) is deleted and the following substituted:

901-1.4 Gradation: Coarse aggregates shall conform to the gradation requirements of Table 1, when the stone size is specified. However, Table 1 is waived for those aggregates intended for usage in bituminous mixtures, provided the material is graded on sieves specified in production requirements contained in 6-2.3, and meets uniformity and bituminous design requirements.

| TABLE 1 Standard Sizes of Coarse Aggregate | | | | | | | | |
|--|------------------------------|----------|--------------|----------|--------------|-----------|--------------|-----------|
| Amounts Finer than Each Laboratory Sieve (Square Openings), weight percent | | | | | | | | |
| Size No. | Nominal Size Square Openings | 4 inches | 3 1/2 inches | 3 inches | 2 1/2 inches | 2 inches | 1 1/2 inches | 1 inch |
| 1 | 3 1/2 to 1 1/2 inches | 100 | 90 to 100 | - | 25 to 60 | - | 0 to 15 | - |
| 2 | 2 1/2 inches to 1 1/2 inches | - | - | 100 | 90 to 100 | 35 to 70 | 0 to 15 | - |
| 24 | 2 1/2 inches to 3/4 inch | - | - | 100 | 90 to 100 | - | 25 to 60 | - |
| 3 | 2 inches to 1 inch | - | - | - | 100 | 90 to 100 | 35 to 70 | 0 to 15 |
| 357 | 2 inches to No. 4 | - | - | - | 100 | 95 to 100 | - | 35 to 70 |
| 4 | 1 1/2 inches to 3/4 inch | - | - | - | - | 100 | 90 to 100 | 20 to 55 |
| 467 | 1 1/2 inches to No. 4 | - | - | - | - | 100 | 95 to 100 | - |
| 5 | 1 inch to 1/2 inch | - | - | - | - | - | 100 | 90 to 100 |
| 56 | 1 inch to 3/8 inch | - | - | - | - | - | 100 | 90 to 100 |
| 57 | 1 inch to No. 4 | - | - | - | - | - | 100 | 95 to 100 |
| 6 | 3/4 inch to 3/8 inch | - | - | - | - | - | - | 100 |
| 67 | 3/4 inch to No. 4 | - | - | - | - | - | - | 100 |
| 68 | 3/4 inch to No. 8 | - | - | - | - | - | - | - |
| 7 | 1/2 inch to No. 4 | - | - | - | - | - | - | - |
| 78 | 1/2 inch to No. 8 | - | - | - | - | - | - | - |
| 8 | 3/8 inch to No. 8 | - | - | - | - | - | - | - |
| 89 | 3/8 inch to No. 16 | - | - | - | - | - | - | - |
| 9 | No. 4 to No. 16 | - | - | - | - | - | - | - |

| TABLE 1 Standard Sizes of Coarse Aggregate | | | | | | | | |
|--|------------------------------|----------|--------------|----------|--------------|----------|--------------|--------|
| Amounts Finer than Each Laboratory Sieve (Square Openings), weight percent | | | | | | | | |
| Size No. | Nominal Size Square Openings | 4 inches | 3 1/2 inches | 3 inches | 2 1/2 inches | 2 inches | 1 1/2 inches | 1 inch |
| 10 | No. 4 to 0 | - | - | - | - | - | - | - |

| TABLE 1 (Continued) Standard Sizes of Coarse Aggregate | | | | | | | | |
|--|------------------------------|-----------|-----------|-----------|----------|-----------|---------|--------|
| Amounts Finer than Each Laboratory Sieve (Square Openings), weight percent | | | | | | | | |
| Size No. | Nominal Size Square Openings | 3/4 inch | 1/2 inch | 3/8 inch | No. 4 | No. 8 | No. 16 | No. 50 |
| 1 | 3 1/2 inches to 1 1/2 inches | 0 to 5 | | | | | | |
| 2 | 2 1/2 inches to 1 1/2 inches | 0 to 5 | | | | | | |
| 24 | 2 1/2 inches to 3/4 inch | 0 to 10 | 0 to 5 | | | | | |
| 3 | 2 inches to 1 inch | - | 0 to 5 | | | | | |
| 357 | 2 inches to No. 4 | - | 10 to 30 | - | 0 to 5 | | | |
| 4 | 1 1/2 inches to 3/4 inch | 0 to 15 | - | 0 to 5 | | | | |
| 467 | 1 1/2 inches to No. 4 | 35 to 70 | - | 10 to 30 | 0 to 5 | | | |
| 5 | 1 inch to 1/2 inch | 20 to 55 | 0 to 10 | 0 to 5 | | | | |
| 56 | 1 inch to 3/8 inch | 40 to 85 | 10 to 40 | 0 to 15 | 0 to 5 | | | |
| 57 | 1 inch to No. 4 | - | 25 to 60 | - | 0 to 10 | 0 to 5 | | |
| 6 | 3/4 inch to 3/8 inch | 90 to 100 | 20 to 55 | 0 to 15 | 0 to 5 | | | |
| 67 | 3/4 inch to No. 4 | 90 to 100 | - | 20 to 55 | 0 to 10 | 0 to 5 | | |
| 68 | 3/4 inch to No. 8 | 90 to 100 | - | 30 to 65 | 5 to 25 | 0 to 10 | 0 to 5 | |
| 7 | 1/2 inch to No. 4 | 100 | 90 to 100 | 40 to 70 | 0 to 15 | 0 to 5 | | |
| 78 | 1/2 inch to No. 8 | 100 | 90 to 100 | 40 to 75 | 5 to 25 | 0 to 10 | 0 to 5 | |
| 8 | 3/8 inch to No. 8 | - | 100 | 85 to 100 | 10 to 30 | 0 to 10 | 0 to 5 | |
| 89 | 3/8 inch to No. | - | 100 | 90 to 100 | 20 to 55 | 5-0 to 30 | 0 to 10 | 0 to 5 |

Comment [dt1]: As per Materials Bulletin 01-12/DCE MEMO 05-12, dated 2-7-12.

| TABLE 1 (Continued) | | | | | | | | |
|--|------------------------------|----------|----------|----------|-----------|----------|---------|--------|
| Standard Sizes of Coarse Aggregate | | | | | | | | |
| Amounts Finer than Each Laboratory Sieve (Square Openings), weight percent | | | | | | | | |
| Size No. | Nominal Size Square Openings | 3/4 inch | 1/2 inch | 3/8 inch | No. 4 | No. 8 | No. 16 | No. 50 |
| | 16 | | | | | | | |
| 9 | No. 4 to No. 16 | - | - | 100 | 85 to 100 | 10 to 40 | 0 to 10 | 0 to 5 |
| 10 | No. 4 to 0 | - | - | 100 | 85 to 100 | - | - | - |

The gradations in Table 1 represent the extreme limits for the various sizes indicated which will be used in determining the suitability for use of coarse aggregate from all sources of supply. For any grade from any one source, the gradation shall be held reasonably uniform and not subject to the extreme percentages of gradation specified above.

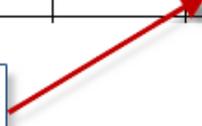
Please process a Specification Revision as follows:

A Specification revision to Table 1, Subsection 901-1.4, as follows:

“Amount Finer than Each Laboratory Sieve (Square Openings), weight percent” is changed for Size No. 89 on the No. 8 Sieve from “5 to 30” to “0 to 30.”

| | | | | | | | | |
|----|---------------------------------------|---|-----|-----------|----------|---------|---------|--------|
| 89 | ^o 3/8 inch to No. 16 | - | 100 | 90 to 100 | 20 to 55 | 5 to 30 | 0 to 10 | 0 to 5 |
|----|---------------------------------------|---|-----|-----------|----------|---------|---------|--------|

Change "5" to "0"





Florida Department of Transportation

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ANANTH PRASAD, P.E.
SECRETARY

February 7, 2012

MATERIALS BULLETIN NO. 04-12

DCE MEMORANDUM NO. 05-12

(FHWA Approved: 02/06/12)

TO: DISTRICT MATERIALS RESEARCH ENGINEERS
DISTRICT CONSTRUCTION ENGINEERS

FROM: Timothy J. Ruelke, P.E., Director, Office of Materials
David A. Sadler, P.E., Director, Office of Construction

COPIES: Rafiq Darji, Chris Richter, Michael Murtha, Bob Burleson, Jim Warren, Mike Bergin, John Shoucair, Tom Byron, Chad Thompson, Heather Dean

SUBJECT: SPECIFICATION CHANGE FOR COARSE AGGREGATE -
NO. 89 STONE SPECIFICATION FOR NO. 8 SIEVE

A Specification revision will be processed in the near future changing Table 1, Subsection 901-1.4, as follows:

“Amount Finer than Each Laboratory Sieve (Square Openings), weight percent” is changed for Size No. 89 on the No. 8 Sieve from “5 to 30” to “0 to 30.”

This memorandum serves as a blanket approval to process this change if requested by a contractor at no cost to the Department and should be attached to the Field Supplemental Agreement/Work Order or Supplemental Agreement.

Should you have any questions concerning this matter, please contact John Shoucair (352) 955-2925 at the State Materials Office.

TJR/DAS/js



Florida Department of Transportation

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605 Suwannee Street
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**ANANTH PRASAD, P.E.
SECRETARY**

January 3, 2012

MEMORANDUM

**TO: Rudy Powell, State Construction Engineer
Doug Martin, Construction Systems Engineer**

FROM: David A. Sadler, Director, Office of Construction

COPIES: Heather Hicks, Administrative Assistant

SUBJECT: DELEGATION OF SIGNATURE AUTHORITY

This is to delegate signature authority for documents (excluding personnel actions) to you for when I am out of the office or on travel status from this date through July 1, 2012.

Ms. Hicks is also delegated authority for administrative type actions.

Please insure that my office receives a copy of all correspondence signed by you for these dates.

DS/hh