



## Florida Department of Transportation

**CHARLIE CRIST**  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

**STEPHANIE KOPELOUSOS**  
SECRETARY

November 10, 2010

Monica Gourdine  
Program Operations Engineer  
Federal Highway Administration  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

Re: Office of Design, Specifications  
Section 347  
Proposed Specification: 3470201 Portland Cement Concrete – Class NS.

Dear Ms. Gourdine:

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

These changes were proposed by Susan Blazo of the State Materials Office to delete references to AASHTO M-85 and ASTM C-150 due to changes to these standards and to add a requirement for compressive strength data to be submitted along with the proposed mix design.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965RP or rudy.powell@dot.state.fl.us.

If you have any questions relating to this specification change, please call Rudy Powell, State Specifications Engineer at 414-4280.

Sincerely,

Rudy Powell, Jr., P.E.  
State Specifications Engineer

RP/cah  
Attachment

cc: Gregory Jones, Chief Civil Litigation  
Florida Transportation Builders' Assoc.  
State Construction Engineer

**PORTLAND CEMENT CONCRETE – CLASS NS.**  
**(REV 0811-103-10)**

Subarticle 347-2-1 (Page 340) is deleted and the following substituted:

**347-2.1 General:** Certify that all materials used in concrete are from Department approved sources, and free from frozen or other detrimental matter.

Meet the following requirements:

Portland Cement*	Section 921
Coarse Aggregate	Section 901
Fine Aggregate	Section 902
Water	Section 923
Chemical Admixtures	Section 924
Pozzolans and Slag	Section 929

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\*The heat of hydration requirements of Section 921 is not applicable to nonstructural concrete. Portland cements meeting the requirements of AASHTO M-85 or ASTM C-150 are allowed for nonstructural concrete.

Subarticle 347-4.1 (Page 342) is deleted and the following substituted:

**347-4.1 Concrete Mix Design:** Before producing any concrete, submit the proposed mix design to the Engineer on a form provided by the Department. *A similar form containing the same information may be used.* Also submit, *three compressive strength test results tested in accordance with ASTM C 39, demonstrating that the mix will meet the minimum 28 day compressive strength requirement of 2,500 psi. The test results data must be within the last twelve months period from the date of the submittal of the design-mix design.* Use only concrete mix designs having prior approval of the Engineer.

Materials may be adjusted provided that the theoretical yield requirement of the approved mix design is met. Show all required original approved design mix data and batch adjustments and substituted material on the Department concrete delivery ticket. The Engineer may disqualify any concrete production facility for non-compliance with Specification requirements.

**PORTLAND CEMENT CONCRETE – CLASS NS.  
(REV 11-10-10)**

Subarticle 347-2-1 (Page 340) is deleted and the following substituted:

**347-2.1 General:** Certify that all materials used in concrete are from Department approved sources, and free from frozen or other detrimental matter.

Meet the following requirements:

Portland Cement.....	Section 921
Coarse Aggregate.....	Section 901
Fine Aggregate.....	Section 902
Water.....	Section 923
Chemical Admixtures .....	Section 924
Pozzolans and Slag .....	Section 929

Subarticle 347-4.1 (Page 342) is deleted and the following substituted:

**347-4.1 Concrete Mix Design:** Before producing any concrete, submit the proposed mix design to the Engineer on a form provided by the Department. A similar form containing the same information may be used. Also submit three compressive strength test results tested in accordance with ASTM C 39 demonstrating the mix meets the minimum 28 day compressive strength requirement. The test results must be within twelve months of the submittal of the mix design. Use only concrete mix designs having prior approval of the Engineer.

Materials may be adjusted provided that the theoretical yield requirement of the approved mix design is met. Show all required original approved design mix data and batch adjustments and substituted material on the Department concrete delivery ticket. The Engineer may disqualify any concrete production facility for non-compliance with Specification requirements.