

ORIGINATION FORM

Date: 5-11-11

Originator: David Sadler

Contact Information: 850-414-5203

Specification Title: Definitions and Terms

Specification Section, Article, or Subarticle Number: 1-3, 8-6, 8-7, 450-11, 611-4

Why does the existing language need to be changed? To eliminate District specific Modified Special Provisions for Special Events.

Summary of the changes: Adding a definition for Special Events and revision language in 8-6, 8-7, 450-11 and 611-4 as necessary.

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

Will these changes result in an increase or decrease in project costs? If yes, what is the estimated change in costs? No.

With who have you discussed these changes? Frances Thomas has discussed with Rudy Powell, David Sadler, Greg Jones, Alan Autry, Dee Kane (D5), Teresa Thrasher (D2).

What other offices will be impacted by these changes? N/A

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? PPM

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? No

Contact the State Specifications Office for assistance in completing this form.
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ANANTH PRASAD, P.E.
SECRETARY

M E M O R A N D U M

DATE: May 20, 2011

TO: Specification Review Distribution List

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

SUBJECT: Proposed Specification: 4501101 Precast Prestressed Concrete Construction - Detensioning

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

This change was proposed by David Sadler to clarify requirements regarding release of prestressing force. This change is related to changes in other Sections regarding Special Events.

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 SP965RP or rudy.powell@dot.state.fl.us. Comments received after **June 17, 2011** may not be considered. Your input is encouraged.

RP/ft
Attachment

PRECAST PRESTRESSED CONCRETE CONSTRUCTION-DETENSIONING.
(REV ~~4-12-11~~5-19-11)

SUBARTICLE 450-11.1 (Page 489) is deleted and the following substituted:

450-11.1 General: The required concrete strength at which the prestressing force may be transferred to the concrete in a product will be a minimum of 4,000 psi, unless specified otherwise in the plans. Verify the release strength by compressive strength cylinder tests or other approved means, no later than 24 hours after casting and every 24 hours thereafter until release strength is developed. In lieu of every 24 hour testing, contractor is permitted to estimate the strength development of concrete by the maturity method in accordance with ASTM C 1074 pulse velocity method in accordance with ASTM C 597, or any other nondestructive test method acceptable to Engineer, until the time of the detensioning. Before detensioning, verify the concrete release strength by testing the compressive strength test cylinders. Make a minimum of two compressive strength release test cylinders daily for each individual mix, or for each LOT of 50 cy or fraction of given concrete mix design where the daily consumption exceeds this volume or when non-continuous batching or dissimilar curing is used. The release strength test, representing the LOT, is the average compressive strength of two test cylinders, which are cured under the conditions similar to the product or match-cured test specimens, which are match cured until the time of release. For products cured using accelerated curing, release the prestressing force immediately after terminating curing. For products cured using methods other than accelerated curing, - release the prestressing force within ~~24 hours of verifying~~ *a time limit subsequent to the verification of the* release strength by compressive strength cylinder test or other approved strength gain monitoring system, ~~unless the required time for release occurs on a weekend or holiday. When the required time for release occurs on a weekend or holiday, cover the products and exposed strand with curing blankets or other similar materials, or detension the products. Detension the products immediately on the first workday after the weekend or holiday.~~ *Ensure that the detensioning time limit is included in the Plant's Quality Control Plan.* Cure concrete cylinders used for detensioning strength tests in the same manner and location as the prestressed concrete products.