

ORIGINATION FORM

Date: **2-12-14**

Originator: **Juan Castellanos**

Contact Information: **850-414-4276**

Specification Title: **Structure Foundations**

Specification Section, Article, or Subarticle Number: **455-5.2.3**

Why does the existing language need to be changed? **To correct the language regarding hydraulic hammers. These hammers need instrumentation and readout units that allow the application of a reliable energy. Without this instrumentation is not possible to obtain an accurate driving criterion.**

Summary of the changes:

455-5.2.3. Modify the language to require instrumentation and control unit to adjust and read energy or equivalent strokes.

Are these changes applicable to all Department jobs? **Yes**

If not, what are the restrictions?

Will these changes result in an increase or decrease in project costs? **No**

If yes, what is the estimated change in costs?

With who have you discussed these changes? **Rudy Powell, Larry Jones, David Horhota, Sam Weede**

What other offices will be impacted by these changes? **None**

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**

Contact the State Specifications Office for assistance in completing this form.

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ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: February 20, 2014
TO: Specification Review Distribution List
FROM: Daniel Scheer, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **4550502 Structures Foundations.**

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

This change was proposed by Juan Castellanos to correct the language regarding hydraulic hammers. These hammers need instrumentation and readout units that allow the application of a reliable energy.

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 SP965DS, or daniel.scheer@dot.state.fl.us. Comments received after **March 20, 2014**, may not be considered. Your input is encouraged.

DS/cah
Attachment

STRUCTURES FOUNDATIONS.

(REV 2-191-14)

SUBARTICLE 455-5.2.3 is deleted and the following substituted:

455-5.2.3 Hydraulic: Variable energy hydraulic hammers shall have at least three hydraulic control settings that provide for predictable *energy or equivalent ram* stroke ~~control~~. The shortest stroke shall be a maximum of 2 feet for the driving of concrete piles. The remaining strokes shall include full stroke and approximately halfway between minimum and maximum stroke.

~~Determine the hammer energy according to the manufacturer's recommendations.~~ *Supply hammer instrumentation with electronic read out, and control unit that allows the operator to read and adjust the hammer energy or equivalent stroke.* When pressure measuring equipment is required to determine hammer energy, calibrate the pressure *measuring equipment* ~~gauges~~ before use.