

ORIGINATION FORM

Date: April 11, 2014

Originator: Chester A. Henson, P.E.

Contact Information: chester.henson@dot.state.fl.us

Specification Title: **Span Wire Assembly**

Specification Section, Article, or Subarticle Number: **634-2.3 Hardware and Fittings**

Why does the existing language need to be changed? To strengthen the wording of the requirement.

Summary of the changes: Removed the parenthesis from around the requirement.

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? Construction and Specifications

What other offices will be impacted by these changes? None

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

Are all references to external publications current? Yes

If not, what references need to be updated (please include changes in the redline)?

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

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

Daniel Scheer 850-414-4130 daniel.scheer@dot.state.fl.us

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

Ray Haverty 850-414-4129 ray.haverty@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: April 22, 2014
TO: Specification Review Distribution List
FROM: Daniel Scheer, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **6340203 Span Wire Assembly.**

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

This change was proposed by Chester Henson to strengthen the wording of the requirement.

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 **May 20, 2014**, may not be considered. Your input is encouraged.

DS/cah
Attachment

SPAN WIRE ASSEMBLY.
(REV 4-14-14)

SUBARTICLE 634-2.3 is deleted and the following substituted:

634-2.3 Hardware and Fittings: For ~~U~~utility or Siemens-Martin ~~G~~grade wires, use the connection hardware as specified herein. For installations that use other grades of wire, provide the hardware and fittings indicated in the Plans. Provide only hardware and fittings made of galvanized steel or non-corrosive metal unless the fiberglass insulators specified in 634-2.4 are also required. Provide hardware and fittings of sufficient strength to resist the breaking strength of the wire with which they are used.

Use an alloy steel eyebolt *meeting the requirements of* (ASTM F541, Type 2) and a matching heavy hex nut *meeting the requirements of* (ASTM A563, Grade C or D), ~~both zinc coated in accordance with ASTM A153, Class C,~~ to connect the automatic compression dead-end clamp of the catenary wire ~~and~~ messenger wire to the wood or concrete strain poles.

Eyebolts and hex nuts must be zinc coated in accordance with ASTM A153, Class C. Sizes of eyebolts, supplied with nuts and washers, are as following: Use a 3/4 inch diameter bolt for maximum of one 7/16 inch diameter catenary (or messenger) wire, or maximum of two 3/8 inch diameter catenary (or messenger) wires. Use a 1 inch diameter bolt for maximum of one 1/2 inch diameter catenary (or messenger) wire, or maximum of two 7/16 inch diameter catenary (or messenger) wires. Use 1-1/4 inch diameter bolt for maximum of two 1/2 inch diameter catenary (or messenger) wires. For two point attachments, connect the messenger wire at the lower attachment location. Do not use thimble eye bolts for these connections.

Only use thimble eye and eye bolts, 3/4 inch in diameter, minimum, to connect the automatic compression dead-end clamps of tether wires to wood or concrete strain poles.

Only use "S" hooks, 5/16 inch in diameter, minimum, when connecting the tether wire to all poles.

Ensure that other hardware and fittings, as required for the attachment of a span wire assembly to support poles or structures, are in accordance with the details shown in the Design Standards.