Public Works Standard Specifications for Construction June 2014
Technical Bulletin 16-01

Date: September 20, 2016

Subject: Modification to Public Works Standard Specifications for Construction June 2014

Summary: This bulletin adds Sections 430 and 931 to the Hillsborough County, Public Works Standard Specifications for Construction dated June 2014. This is being done to revise specific FDOT requirements or procedures to help expedite projects that ultimately benefits the County. Section 430 language is added to remove the requirement of laser profiler testing for concrete storm culverts, as historically concrete pipe has not deflected in shape during construction installation activities without breaking. This damage would appear in the required video tape of the storm culvert. Section 931 removes the requirements for testing reinforcing steel, as historically very few failures have ever occurred verifying tensile strength, also there are no local laboratories that are capable of performing this material test.

Specifics:
1. Table of Contents revised to include Section 430 Pipe Culverts and Section 931 Metal Accessory Materials for Concrete Pavement and Concrete Structures. Refer to the additions in red below.

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2. Included Section 430 – Pipe Culverts within Specifications. Refer to specific changes in red below.

Section 430 – Pipe Culverts

Utilize the complete latest version of the FDOT Specifications for Road and Bridge Construction for this section with the following exception:

For rigid concrete pipe installation, the County waives the requirement for the laser profiling and measurement technology. The County reserves the right to implement this requirement if the submitted video report indicates a visibly substantial deviation in the joints or alignment of the culvert. The laser profiling and measurement technology will still be required for all other optional culvert material types.

3. Included Section 931 – Metal Accessory Materials for Concrete Pavement and Concrete Structures within Specifications. Refer to specific changes in red below.

Section 931 – Metal Accessory Materials for Concrete Pavement and Concrete Structures

The following replaces section 931-1.1 of the FDOT Specifications:

931-1.1 Steel Bars: Unless otherwise shown in the Plans, billet steel bars for concrete reinforcement shall conform to the requirements of ASTM A615 Grade 60 except that the process of manufacture will not be restricted. For processes not included in ASTM A615 the phosphorus content will be limited to 0.08%.

The following special requirements shall apply:
(1) Unless otherwise specified or shown in the Plans all reinforcement bars No. 3 and larger shall be deformed bars.
(2) All billet-steel bars shall be of the grade called for in the Plans.
(3) Twisted bars shall not be used.
(4) Wherever in the Specifications the word “purchaser” appears it shall be taken to mean the Department.

Acceptance of reinforcing steel shall be based on samples taken visual inspection by the Department Engineer and submittal of the Manufacturer’s certified mill analysis certifying that the test results meet the specification limits of the ASTM or AASHTO designation for the particular size, grade and any additional requirements. The manufacturer’s certified mill analysis for each heat, size, and grade per shipment of reinforcing steel shall be provided to the Engineer prior to use.
The Engineer will select inspect samples representing each LOT of reinforcing steel. A sample is defined as the reinforcing steel and a copy of the certified mill analysis corresponding to the sample. A LOT is defined as the weight of all bars, regardless of size, grade or pay item in consecutive shipments of 80 tons or less. Samples shall be cut from bundled steel that is shipped to the jobsite.

Please contact Richard Sanders at 307-1840 if you have questions regarding this bulletin.

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Effective Date 10/11/16