



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

January 10, 2012

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

Re: Office of Design, Specifications
Section **425**
Proposed Specification: **4250302 Inlets, Manholes, and Junction Boxes.**

Dear Ms. Gourdine:

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

These changes were proposed by Richard Hewitt to allow the use of adjustable manholes.

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: Calvin Johnson, Chief Civil Litigation
Florida Transportation Builders' Assoc.
State Construction Engineer

INLETS, MANHOLES, AND JUNCTION BOXES.**(REV ~~911-10321-121~~)**

SUBARTICLE 425-3.2 (Page 443) is deleted and the following substituted:

425-3.2 Gratings, Covers, and Frames: Use gratings and frames fabricated from structural steel or cast iron as designated in the appropriate Design Standard. When “Alt. G” grates are specified in the plans, provide structural steel grates that are galvanized in accordance with the requirements of ASTM A-123.

~~*425-3.2.1 Castings: Use rigid frames and covers either 24 inches or 36 inches or optional three-piece adjustable frames and covers as indicated in Design Standards Index No. 201 and the Department’s Qualified Products List (QPL).*~~

~~*For three-piece adjustable frames, the inner frame may include replaceable resilient seats to support the cover. In addition, the cover or the exposed portion of the inner frame shall indicate that the inner frame is adjustable, by clearly having the word “adjustable” imprinted into the exposed portion of the inner frame such that it is visible from the roadway after installation.*~~

SUBARTICLE 425-6.3 (Page 444) is deleted and the following substituted:

425-6.3 Setting Manhole Castings: After curing the concrete as specified above, set the frame of the casting in a full mortar bed composed of one part portland cement to two parts of fine aggregate.

~~*425-6.3.1 Standard Castings: Set manhole frames in a mortar bed and adjust to grade using brick or concrete grade rings, with a maximum 12 inch adjustment.*~~

~~*425-6.3.2 Optional Adjustable Castings: When using a three-piece adjustable frame and cover, install the frame and cover with brick or concrete grade rings to the base course height. Make final adjustments using the floating inner ring inner frame in accordance with the manufacturer’s installation recommendations such that the inner frame and cover meet the raised and adjust to final proper grade and slope of the pavement surface opened to traffic of the final pavement in accordance with the manufacturer’s installation recommendations.*~~

SUBARTICLE 425-6.7 (Page 444) is deleted and the following substituted:

425-6.7 Adjusting Existing Structures: Cut down or extend existing manholes, catch basins, inlets, valve boxes, etc., within the limits of the proposed work, to meet the finished grade of the proposed pavement, or if outside of the proposed pavement area, to the finished grade designated on the plans for such structures. Use materials and construction methods which meet the requirements specified above to cut down or extend the existing structures.

The Contractor may extend manholes needing to be raised using adjustable extension rings of the type which do not require the removal of the existing

manhole frame. Use an extension device that provides positive locking action and permits adjustment in height as well as diameter and meets the approval of the Engineer.

When a three-piece adjustable frame and cover is installed, dislodge the inner frame floating ring, and make adjustments using the inner frame to the new final grade and slope in accordance with the manufacturer's installation recommendations so the inner frame and cover meet the grade and slope of the pavement surface opened to traffic. Obtain training in the initial installation of the adjustable frames and covers from the manufacturer and ensure that the manufacture is available during the installation upon request.

INLETS, MANHOLES, AND JUNCTION BOXES.**(REV 1-10-12)**

SUBARTICLE 425-3.2 (Page 443) is deleted and the following substituted:

425-3.2 Gratings, Covers, and Frames: Use gratings and frames fabricated from structural steel or cast iron as designated in the appropriate Design Standard. When “Alt. G” grates are specified in the plans, provide structural steel grates that are galvanized in accordance with the requirements of ASTM A-123.

Use rigid frames and covers either 24 inches or 36 inches or optional three-piece adjustable frames and covers as indicated in Design Standards Index No. 201.

For three-piece adjustable frames, the inner frame may include replaceable resilient seats to support the cover. In addition, the inner frame shall indicate it is adjustable, by clearly having the word “adjustable” imprinted into the exposed portion of the inner frame so “adjustable” is visible from the roadway after installation.

SUBARTICLE 425-6.3 (Page 444) is deleted and the following substituted:

425-6.3 Setting Manhole Castings: After curing the concrete as specified above, set the frame of the casting in a full mortar bed composed of one part portland cement to two parts of fine aggregate.

425-6.3.1 Standard Castings: Set manhole frames in a mortar bed and adjust to grade using brick or concrete grade rings, with a maximum 12 inch adjustment.

425-6.3.2 Optional Adjustable Castings: When using a three-piece adjustable frame and cover, install the frame and cover with brick or concrete grade rings to the base course height. Make adjustments using the inner frame in accordance with the manufacturer’s installation recommendations so the inner frame and cover meet the grade and slope of the pavement surface opened to traffic.

SUBARTICLE 425-6.7 (Page 444) is deleted and the following substituted:

425-6.7 Adjusting Existing Structures: Cut down or extend existing manholes, catch basins, inlets, valve boxes, etc., within the limits of the proposed work, to meet the finished grade of the proposed pavement, or if outside of the proposed pavement area, to the finished grade designated on the plans for such structures. Use materials and construction methods which meet the requirements specified above to cut down or extend the existing structures.

The Contractor may extend manholes needing to be raised using adjustable extension rings of the type which do not require the removal of the existing manhole frame. Use an extension device that provides positive locking action and permits adjustment in height as well as diameter and meets the approval of the Engineer.

When a three-piece adjustable frame and cover is installed, make adjustments using the inner frame in accordance with the manufacturer’s installation

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recommendations so the inner frame and cover meet the grade and slope of the pavement surface opened to traffic.