



Florida Department of Transportation

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605 Suwannee Street
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JIM BOXOLD
SECRETARY

December 28, 2015

Khoa Nguyen
Director, Office of Technical Services
Federal Highway Administration
3500 Financial Plaza, Suite 400
Tallahassee, Florida 32312

Re: State Specifications Office
Section **436**
Proposed Specification: **4360000 Trench Drain.**

Dear Mr. Nguyen:

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

The changes are proposed by Amy Tootle of the State Construction Office to require all construction-related documentation to be submitted by electronic means for consistency with the State Construction Office e-Construction initiative.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to daniel.scheer@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Daniel Scheer, P.E.
State Specifications Engineer

DS/dt

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

TRENCH DRAIN.
(REV 10-26-15)

SECTION 436 is deleted and the following substituted:

436-1 Description.

Construct Trench Drain, with one of the materials listed below, for the purpose of collecting and removing surface run-off from paved areas. Furnish and install trench drain in accordance with the Design Standards, at the locations shown in the Plans or as directed by the Engineer.

436-2 Materials.

Provide preformed channels or pipe with sufficient strength to withstand construction handling and placement of concrete backfill without deforming or deviating from line and grade. ~~Furnish the Engineer with certification~~ **Submit certification to the Engineer** from the manufacturer that the trench drain system meets the requirements of this Section.

436-2.1 Channels/Pipe: Meet the following requirements:

Steel Pipe	Section 943
Aluminum Pipe	Section 945
Polyethylene.....	Section 948 and ASTM D3350
Polymer Concrete.....	ASTM D6783
Fiberglass	ASTM D3517

436-2.2 Concrete Backfill: Use concrete that meets the requirements of Section 347.

436-2.3 Grates: Provide steel grates and supporting frames that meet the requirements of Section 962. Ductile iron frames and grates must meet the requirements of ASTM A536. Ensure that ductile iron grates and frames are compatible and from the same manufacturer. Frames must be anchored into the concrete backfill with studs bolts or lugs. Grates must have at least 30% open area and fasten securely to frames to avoid rattling, Grates must be removable for the entire channel length and have vandal resistant locking devices. Ensure that frames have a minimum of 4 inch long studs, bolts or lugs at all four corners.

436-2.4 Clean-Out covers for Type 1 Drains: Install steel or ductile iron covers that meet the requirements of Section 962.

436-2.5 Outlet Pipe: Connect outlet pipe to the trench drain with standard manufactured connectors. Unless a particular type is called for in the Plans, use any of the following types of pipe:

Concrete	Section 449
Steel.....	Section 943
Aluminum	Section 945
Polyvinyl Chloride	948-1.7
Polyethylene.....	948.2.3

436-3 Installation.

Submit to the Engineer the proposed method of installation, noting any deviation from the manufacturer's recommendations. Place concrete backfill in the trench against undisturbed material at the sides and bottom of the trench in a manner that will prevent floating or shifting of

the trench drain, and will prevent voids in, or segregation of the concrete. Tamp and spade to prevent honeycombing. Form the top surface to the lines shown in the Plans. Remove any foreign material that falls into the trench prior to or during placement of concrete.

436-4 Method of Measurement.

The quantity to be paid for will be plan quantity, in place and accepted. The plan quantity will be measured from the inside wall of the structure as shown in the Plans, along the centerline of the pipe/channel.

436-5 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including all materials, tools, equipment, concrete backfilling, outlet pipe, connections to new or existing structures and all incidentals necessary to complete the work.

Payment will be made under:

Item No. 436- 1- Trench Drain - per foot.

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