



Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

KEVIN J. THIBAUT, P.E.
SECRETARY

TRAFFIC ENGINEERING AND OPERATIONS BULLETIN 21-05

ROADWAY DESIGN BULLETIN 21-10

PROGRAM MANAGEMENT BULLETIN 21-06

(FHWA Approved: August 20, 2021)

DATE: August 25, 2021

TO: District Directors of Transportation Operations, District Directors of Transportation Development, District Design Engineers, District Construction Engineers, District Consultant Project Management Engineers, District Maintenance Engineers, District Program Management Engineers, FDOT Design Manual Holders

FROM: Trey Tillander, P.E., Director, Traffic Engineering and Operations Office
Michael Shepard, P.E., State Roadway Design Engineer
Stefanie Maxwell, P.E., Manager, Program Management Office

DocuSigned by:
Trey Tillander
DocuSigned by:
Michael H. Shepard
DocuSigned by:
Stefanie Maxwell
E6B6BEAE89A5...
D749973004EE41F...
A28BFCA3708C422...

COPIES: Courtney Drummond, Will Watts, Tim Lattner, Rudy Powell, Dan Hurtado, Bren George (FHWA), Khoa Nguyen (FHWA), Chad Thompson (FHWA), Frank Corrado (FHWA)

SUBJECT: **Requirements for ITS Locators**

This bulletin updates the *FDOT Design Manual (FDM)* as well as the *Basis of Estimates Manual (BOE)* with respect to ITS Locators.

REQUIREMENTS FOR FDM

1. Insert the following after the last paragraph of **FDM 322.2**:

While not utilities, the Department-owned subsurface communication lines must be clearly shown and labeled on the plans. See **FDM 328.1** for additional information.

2. Insert the following after the last paragraph of **FDM 328.1**:

When buried FDOT fiber optic cable exists within the project limits, coordinate with the ITS and TSM&O groups within the District Traffic Operations Office and include the ITS Locator pay item in the Estimated Quantities Report.

Traffic Engineering and Operations Bulletin 21-05
Roadway Design Bulletin 21-10
Program Management Bulletin 21-06
Requirements for ITS Locators

3. Delete ***FDM 110.3(4)(a)*** and replace with the following:
 - (a) The most cost-effective methods that may be used in Subsurface Utility Engineering (SUE) for locating subsurface anomalies, structures, buried fiber optic cable, and utilities.
4. Add the following items (8) and (9) to the list under the second paragraph of ***FDM 110.5***:
 - (8) As-Built Drawings
 - (9) ITSFM Documentation
5. Add the following item (10) to the list under the third paragraph of ***FDM 110.6***:
 - (10) Subsurface work can be performed free of conflicts with underground FDOT infrastructure
6. Delete the last sentence in ***FDM 233.4.3*** and replace with the following:

Provide appropriate fiber optic locating and marking per ***Standard Specification 633***.

REQUIREMENTS FOR BOE

1. Pay Item 633-6 has been added to the BOE for the FDOT Fiber Optic Cable Locator.
2. Include the pay item when FDOT fiber optic cable exists within the project limits.
3. The quantity in days shall be equal to the Contract Time.
4. For strung projects, load the pay item only once per contract; use either the lead project or the or the project with the longest project duration.

BACKGROUND

This revision will help protect the Department's ITS fiber optic infrastructure investment, thereby decreasing operational interruptions to the Regional Transportation Management Centers, Managed Lanes, and ITS devices throughout the State; as well as the FDOT programs, systems, and applications that depend on those data sources.

Traffic Engineering and Operations Bulletin 21-05
Roadway Design Bulletin 21-10
Program Management Bulletin 21-06
Requirements for ITS Locators

IMPLEMENTATION

The requirements of this bulletin are effective on all design-bid-build projects with lettings on or after January 1, 2022.

CONTACT

Fred H. Heery, Sr., P.E.
State TSM&O Program Engineer
Traffic Engineering & Operations Office
Fred.Heery@dot.state.fl.us