



Florida Department of Transportation

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ROADWAY DESIGN BULLETIN 15-05

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TO: District Directors of Transportation Operations, District Directors of Transportation Development, District Design Engineers, District Consultant Project Management Engineers, District Construction Engineers, District Maintenance Engineers, District Geotechnical Engineers, District Structures Design Engineers, District Roadway Design Engineers, District Traffic Operations Engineers, Program Management Engineers

FROM: Michael Shepard, P.E., State Roadway Design Engineer 

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SUBJECT: High Tension Cable Barrier (HTCB)

This bulletin rescinds the *Suspension of High Tension Cable Barrier Systems* issued by *Project Management Memorandum 14-02*, and announces the release of a revised **Developmental Specification** Dev540. Additionally, this bulletin introduces the new **Developmental Design Standards (DDS)** Index D450, *High Tension Cable Barrier*, with its **Instructions for Developmental Design Standards (IDDS)**. These documents are available for viewing on the [Developmental Specifications](#) and [DDS website](#).

REQUIREMENTS

1. **DDS** Index D450, *High Tension Cable Barrier*, has been released.
2. **IDDS-450**, *High Tension Cable Barrier*, has been released. This provides developmental design guidance to be used in addition to **PPM, Vol. 1, Chapter 4**.
3. The **Basis of Estimates Manual** pay item structure for *High Tension Cable Barrier System, 904-540- A* has been revised to include the following new pay items:

A = Type

- 13 - (HTCB Length of Need Segment) per LF
- 14 - (End Terminal) per EA
- 15 - (End Terminal Foundation, Misc. Drilled Shaft) per CY
- 16 - (Concrete Mow Strip) per LF

COMMENTARY

Since the original implementation of HTCB by the FDOT, several national research publications have been issued which provide detailed design guidance, system requirements, and installation recommendations. The majority of this research has been summarized in the *National Cooperative Highway Research Program (NCHRP) Report 711*. As a result, the above referenced documents have been prepared or revised to include recommendations from *NCHRP Report 711* and reinstate the use of HTCB for FDOT projects.

BACKGROUND

The use of HTCB was suspended under *Project Management Memorandum 14-02* to allow the Roadway Design Office an opportunity to reevaluate the design process, system requirements, and construction procedures. The use of HTCB will still be executed through developmental processes to allow for any additional clarification or updates as the HTCB industry continues to advance.

IMPLEMENTATION

DDS-D450 and its IDDS is available for use on applicable current or future projects with approval from the Roadway Design Office. Follow the [Usage Process](#) as outlined in the link at the top of the [DDS webpage](#).

In addition to the new documents described above, Manufacturer's which provide HTCB systems meeting the requirements of the Developmental Specification can submit drawings for inclusion on the FDOT Innovative Products List (IPL). The system drawings will be posted on the FDOT's [IPL Website](#) as they become available.

To meet the requirements of this bulletin, when High Tension Cable Barrier is approved for use on a project insert the *DDS* Index D450 drawings in the Plans as described in the *PPM, Vol. 2, Section 3.8*.

The *Developmental Specification* Dev540 must be requested through the District Specifications Office.

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