MEMORANDUM:

TO: District Structures Design Engineers
   (Gerard Moliere, Rod Nelson, Brian Blanchard, John Danielsen, Annette Brennan, Kim Saing, Jose Rodriguez, Jerry O’Steen)
   Area Structures Engineers
   (Robert Robertson, Tom Andres, Don Keenan)

FROM: William N. Nickas, State Structures Design Engineer

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SUBJECT: Temporary Design Bulletin C00-3
          Effective August 2000

Replace paragraph B of Section 10.20.1 of the (LFD) Structures Design Guidelines with the following:

B. Compliance with the strength requirements of Article 2.7 of the Standard Specifications for Highway Bridges with the exception that the Highway Design Loading, \( AP \) in Figure 2.7.4B shall be increased to 54 kN distributed over a longitudinal distance of 1.5 meters. This load and distribution length apply only to 815-mm high, solid face FDOT barriers. The supporting slab shall be designed for this distributed load using a moment arm of 815-mm. The appropriate highway design loading and distribution length for any other traffic barrier must be approved by the DSDE or SSDE as appropriate.

Commentary: The intent is to provide a deck overhang design, when using the AASHTO Load Factor Design (LFD) specification, that is equivalent to the AASHTO-LRFD Specification requirements. The load should be considered a live load and multiplied by the 1.67 load factor plus the 1.3 \( \phi \) factor. \( f = 0.9 \) should be used when computing the strength of the slab. The slab design shall satisfy the following relationship:

\[
\frac{M_u}{\phi M_N} + \frac{F_u}{\phi P_N} \leq 1.0
\]

NOTE: The top slab reinforcing at the barrier shall not be less than 1660 mm\(^2\)/m.

WNN/eh

http://www.dot.state.fl.us/structures/Memos/TempDesignBulletin3.htm