

August 22, 2000

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

COPIES: William Domico, Bob Nichols, Jack Evans,
 Charles Boyd, Jeff Pouliotte, Andre Pavlov

SUBJECT: Temporary Design Bulletin C00-3
 Effective August 2000

Replace paragraph AB@ 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 ? factor. $f = 0.9$ should be used when computing the strength of the slab. The slab design shall satisfy the following relationship:

$$\frac{M_u}{fM_N} + \frac{F_u}{fP_N} \leq 1.0$$

NOTE: The top slab reinforcing at the barrier shall not be less than 1660 mm²/m.

WNN/eh