November 14, 2006

MEMORANDUM TO TEAM LEADERS AND CONSULTANTS

SUBJECT: Design Manual Errata
Section Properties for Prestressed Concrete Beams

Figure 15.5-1 (on pages 15-30 and 15-31) of the SCDOT Bridge Design Manual shows dimensions and section properties for prestressed concrete beams. The section properties for the Type I Modified Beam and the 54" Modified Bulb-Tee Beam are not correct. The correct values are indicated below:

Type I Modified Beam
I = 26,495 in^4

54" Modified Bulb-Tee
A = 707 in^2
W = 737 plf
Y_{TOP} = 26.21"
Y_{BOT} = 27.79"
I = 277,560 in^4

Please make the appropriate corrections to your copy of the Manual.

Mitchell D. Metts, P.E.
Bridge Design Engineer

cc: Assistant Bridge Design Engineers
Bridge Construction Engineer
Bridge Maintenance Engineer
FHWA Structural Engineer

File: PC/BWB