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IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures Date July 24, 2003

Attention All Employees Ref No. 521.1

From Gary Novey

Office Bridges and Structures

Subject Methods Memo No. 84(New Beam Standard Development)

There have been questions about whether the office will be developing a set of new bulb tee standard with depths similar to the current A (32 inch, 810 mm depth) and B (39 inch, 990 mm depth) standard sections for use on I-235. Based on calculations that we did while developing the BTC and BTD, we feel the use of a bulb tee for the shallower depths was not economical. Instead we felt a non-standard design for longer spans could be done using the current standard A and B cross sections. Using higher concrete strengths as specified in Table 5.4.1.4.1.2-1 of the Bridge Design Manual and the larger 0.6-inch strands, the lengths could be increased up to 15 ft. Because of the limited applications, we currently have no plans to develop standards for these longer spans.

For situations outside I-235 where longer A or B may be used because of limits on grade raises, check with the Assistant Bridge Engineer for approval.

GAN:dgb:bj