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DM1097

October 13, 1997

MEMORANDUM TO GROUP LEADERS AND CONSULTANTS

SUBJECT: Breaking Spiral Reinforcement at Cap/Column Connection

On all future projects, there shall be a "break" in spiral reinforcement where the primary steel in the cap intersects with the spiral from the column. This is being done to aid in the constructability of column bents. The spiral cage in the column shall extend to within 1" of the top of column. As before, the designer may still detail the spiral 2 ft. longer than required to allow lowering the bottom of shaft or footing. A short spiral cage will extend from the bottom layer of the primary cap reinforcement to within 6" of the top of cap as per design memorandum DM0797. All ends of the spirals shall be wrapped 1 ½ turns and secured with a lap weld or mechanical coupler to prevent unraveling during a seismic event. The phrase "1 ½ turns @ a closed pitch" on the Reinforcing Bending Details sheet shall be modified to read "1 ½ turns @ a closed pitch secured by lap weld or mechanical coupler capable of developing 125% F_y of the bar". See attached page.

Current projects already detailed need not be changed.

Randy R. Cannon, P. E.
Bridge Design Engineer

cc: Assistant Bridge Design Engineers

Attachment

File: PC/TBK

