



South Carolina
Department of Transportation

955 Park Street
Post Office Box 191
Columbia, South Carolina 29202-0191

Office of the Executive Director
(803) 737-1302 • Fax (803) 737-2038

State Highway Engineer
(803) 737-1314 • Fax (803) 737-2038

Chief Financial Officer
(803) 737-1240 • Fax (803) 737-2014

Director of Mass Transit
(803) 737-9720 • Fax (803) 737-9739

DM0997

August 29, 1997

MEMORANDUM TO GROUP LEADERS & CONSULTANTS

SUBJECT: Spiral Reinforcement in Prestressed Concrete Piles

The square spiral reinforcement pattern in prestressed concrete piles will be replaced with a circular spiral reinforcement pattern only. To accommodate this change, the following pile points will be used when geotechnical conditions warrant:

W8x58 for 18" Square Prestressed Concrete Piles
HP10x57 for 20" Square Prestressed Concrete Piles
8" Extra Strong Pipe for 18" & 20" Square Prestressed Concrete Piles
8" Double Extra Strong Pipe for 18" & 20" Square Prestressed Concrete Piles

This change is being made because the circular spiral pattern will confine the concrete core more effectively than the square spiral pattern during seismic events.

A new set of pile standards are being prepared by Mr. Reed and will be available soon. These new standards shall be incorporated into new projects as applicable. Of course, the determination whether to use pile points and which points to use will be based on recommendations by the geotechnical engineer.

Randy R. Cannon
Bridge Design Engineer

RRC/tbk

CC: Assistant Bridge Design Engineers

File: PC/TBK