

## BRIDGE DESIGN MEMORANDUM – DM0209

**TO:** RPG Structural Engineers

**Design Consultants** 

**DATE:** February 20, 2009

**RE:** Steel H-Pile Anchorage Detail

Figure 19.2-2 of the SCDOT Bridge Design Manual

Figure 19.2-2 of the *SCDOT Bridge Design Manual* shall be deleted and replaced with the attached detail. The revised detail allows the Contractor the option to either drill or flame cut the anchorage holes. To provide a construction tolerance for the holes, the designer must specify a minimum and maximum hole size.

A minimum of two #6 (#19) bars shall be used for the anchorage. The maximum hole size should be limited to two times the diameter of the bar and the minimum hole size should be <sup>1</sup>/<sub>4</sub>" larger than the bar diameter. The reinforcing bar must be detailed with sufficient length to fully develop the bar beyond the bottom mat of the footing or bent cap reinforcement.

Original Signed by E. S. Eargle on February 20, 2009

E. S. Eargle Preconstruction Support Engineer

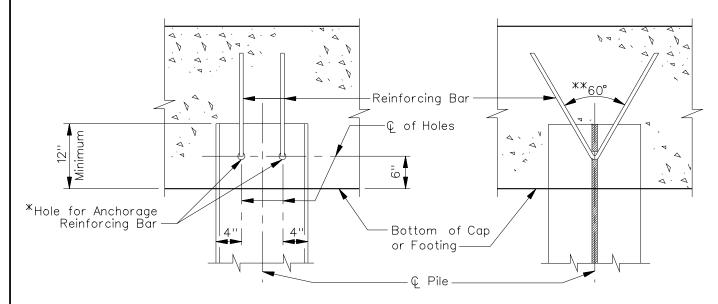
ESE:bwb Attachment

cc: Bridge Construction Engineer Bridge Maintenance Engineer FHWA Structural Engineer

File: PC/BWB

Preconstruction Support Managers Regional Production Engineers RPG Design Managers





Note: Drill or flame cut the holes. Grind area around flame cut holes to remove burrs. Tie or wedge tightly the reinforcing bar against the top of the hole.

## Steel H-Pile Anchorage Detail

- \*\*\* Preferred angle is 60° If necessary, Designer may adjust angle to allow for development length of the reinforcing bar.