



May 27, 2003

MEMORANDUM TO TEAM LEADERS AND CONSULTANTS

SUBJECT: Drilled Shaft Reinforcing Steel

The minimum size of longitudinal reinforcement used in drilled shafts shall be #25 (#8). The minimum clear distance between longitudinal reinforcement shall be four inches, but not less than five times the maximum size of aggregate nor 1.5 times the bar diameter, whichever is greater. For the clear distance limitation that is based on the bar diameter, a group of bundled bars shall be treated as a single bar of a diameter derived from the equivalent total area.

The minimum size of transverse reinforcement used in drilled shafts shall be #19 (#6). The minimum clear distance between transverse reinforcing bars shall be five times the maximum size of aggregate or three inches, whichever is greater. In cases where bundled transverse bars are used, consideration shall be given to increasing the minimum clear spacing requirements to ensure concrete will readily flow into the space between the reinforcing cage and the side of the drilled shaft.

These requirements are effective on all future projects. Projects that have been previously designed and detailed need not be revised.

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cc: Assistant Bridge Design Engineers
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File: PC/BWB

