November 16, 1993

MEMORANDUM TO DESIGN GROUP LEADERS & CONSULTANTS

SUBJECT: SUBSTRUCTURE CONCRETE

All cast-in-place concrete substructure elements, except foundation seals, shall be designed and detailed utilizing "Concrete For Structures - Class D".

Substructure elements shall be designed using a specified compressive strength of $f'_c = 4000$ psi for Class D Concrete. Foundation seals shall continue to be constructed using Class AA Concrete in accordance with Section 702.15 of the Standard Specifications. The use of concrete classes other than those shown above requires approval of the Bridge Design Engineer.

The above requirements shall apply to all projects currently under design. Projects which are completed need not be revised.

Rocque L. Kneecce, P. E.
Bridge Design Engineer

cc: Consultants
Design Group Leaders
FHWA, Mr. Schroeder
Assistant Bridge Design Engineers
Bridge Construction Engineer

REL/slb

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