

SCDOT BRIDGE DESIGN MANUAL

April 2006

SCDOT Bridge Design Manual

Registration Form

To receive revisions to the *Manual*, complete and return this Registration Form to:

State Bridge Design Engineer
South Carolina Department of Transportation
P.O. Box 191
Columbia, South Carolina 29202

Fax: (803) 737-1881

Company/Organization Name: _____

Contact Person: _____

Address: _____

City: _____

State: _____ Zip Code: _____

Telephone Number: (____) _____

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Select desired Method of Notification for Updates to the *Manual*:

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FOREWORD

The *SCDOT Bridge Design Manual* has been developed to provide engineers with the Department's standard bridge design policies and practices. Engineers should attempt to meet all of the criteria presented in the *Manual*, while fulfilling the Department's mission of providing a safe and efficient transportation system for the State. However, the criteria presented in the *Manual* should not be considered as a standard that must be met in all circumstances. Engineers must consider economic impacts, aesthetics, and the social and cultural resources of the project area and request modifications to the criteria when conditions warrant. Because it is impossible to address every issue that bridge engineers will encounter, sound engineering judgment must be exercised when conditions arise that are not specifically covered in the *Manual*.

The *SCDOT Bridge Design Manual* was prepared based on the 3rd Edition of the AASHTO *LRFD Bridge Design Specifications*, current through the 2005 Interims.

ACKNOWLEDGEMENTS

The *SCDOT Bridge Design Manual* was developed by the Bridge Design Section with assistance from the consulting firm of Roy Jorgensen Associates, Inc., Professor Dennis Mertz of the University of Delaware, and the consulting firm The LPA Group, Inc. The South Carolina Federal Highway Administration Division Bridge Engineer provided input and oversight during the development process.

REVISION PROCESS

The *SCDOT Bridge Design Manual* is intended to provide current bridge design policies and procedures for use in developing State highway projects. To ensure that the *Manual* remains up-to-date and appropriately reflects changes in SCDOT's needs and requirements, its contents will be updated on an ongoing basis. It is the responsibility of the *Manual* holder to keep the *Manual* updated.

The SCDOT Bridge Design Section will be responsible for evaluating changes in bridge design literature (e.g., updates to the *LRFD Specifications*, the issuance of new research publications, revisions to Federal regulations) and will ensure that those changes are appropriately addressed through the issuance of revisions to the *Manual*. It is important that users of the *Manual* inform SCDOT of any inconsistencies, errors, need for clarification, or new ideas to support the goal of providing the best and most up-to-date information practical. Comments may be forwarded to the State Bridge Design Engineer.

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