



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

MEMORANDUM TO: Project Engineers
Project Design Engineers

FROM: G. R. Perfetti, P. E.
State Structures Engineer

DATE: January 15, 2014

SUBJECT: SOUND BARRIER WALLS

During the development of sound barrier wall plans, the Division may request a non-standard wall. A list of approved alternates can be found on the NCDOT Approved Products List or at the following website: <https://apps.dot.state.nc.us/vendor/approvedproducts/>

Some of the approved wall types have panel lengths that exceed the standard precast concrete panel lengths. To accommodate the alternate wall panels, the sound barrier wall standards have been revised to allow pile spacing's of 10', 15' and 20'. However, the pile spacing for the standard precast concrete panels will remain 10' and 15'.

Standard Drawings SBW1, SBW4 and the Project Special Provisions have been updated to allow 20' pile spacing. Standard Drawings SBW2, SBW3 and SBW5 have been updated to accommodate constant wind exposure, regardless of location, in accordance with the *AASHTO LRFD Bridge Design Specifications*. The Standard Drawings and Project Special Provisions are available online. The Design Manual will be updated at a later date.

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