



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

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 SECRETARY

MEMORANDUM TO: Project Engineers
 Project Design Engineers
FROM: W. J. Rogers, P.E.
 State Bridge Design Engineer
DATE: May 14, 1999
SUBJECT: PRECAST REINFORCED CONCRETE BOX CULVERTS

The Contractor shall submit the design for a precast culvert when a precast reinforced concrete box culvert is required on the plans; therefore, a complete design will no longer be required. This allows the fabricator to optimize the design to fit their specific fabrication processes.

For precast culverts, the plans should detail the size and length of the culvert, number of boxes, cast-in-place headwall, wings, and guardrail attachment, if required. Do not detail the barrel reinforcement or the thickness of walls and slabs.

For calculation of the culvert length and the quantities for Foundation Conditioning Material and Culvert Excavation, assume that both the wall and slab thickness are equal to the horizontal clear span of one barrel divided by twelve.

This policy is effective with the August 1999 letting. The Design Manual, Special Provisions and CADD standard drawing for precast culverts will be revised at a later date.

WJR/LES/ts



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 Last Updated: 5/19/99 by: Steven Rackley
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