

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
**REINFORCED BRIDGE APPROACH FILLS**  
CORED SLAB BRIDGES

SHEET 3 OF 4  
**422D10**

**SECTION A-A**

**SECTION B-B**

**SECTION C-C**

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ENGLISH DETAIL DRAWING FOR  
**REINFORCED BRIDGE APPROACH FILLS**  
INSETS AND CHARTS

SHEET 4 OF 4  
**422D10**

**Cored Slab Bridge**  
Showing First Lift and Drains

**Girder Bridge**  
Showing First Lift and Drains

**Inset 'b'**

Typical Fabric Lift and Wrap  
Showing Second and Above Lifts

Height of Backwall	Number of Fabric Layers
4'-6" - 5'-9"	3
5'-10" - 7'-2"	4
7'-3" - 8'-8"	5
8'-9" - 10'-1"	6
10'-2" - 11'-8"	7

Note: Cored Slab Structures Require 2 Fabric Layers.

**Inset 'A'**

Length of Bridge End Bent Inside Wingwalls  
If Bridge Skew is Less Than or Equal to 90°:  
(Roadway Width + 7'-0") / Sin (Bridge Skew Angle) = Dis. Between Wingwalls  
If Bridge Skew is Greater Than 90°:  
(Roadway Width + 7'-0") / Cos (Bridge Skew Angle - 90°) = Dis. Between Wingwalls

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**PROJECT SERVICES UNIT  
STANDARDS AND SPECIAL DESIGN**  
Office 919-250-4128 FAX 919-250-4119

**SEE PLATE FOR TITLE**

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