

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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INSETS AND CHARTS

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**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'**  
Showing First Lift and Drains

**Inset 'B'**  
Showing First Lift and Drains

Length of Bridge End Bent Inside Wingwalls  
If Bridge Skew is Less Than or Equal to 90°:  
$$\frac{\text{Sin (Bridge Skew Angle)}}{\text{Cos (Bridge Skew Angle)}} = \text{Dis. Between Wingwalls}$$
  
If Bridge Skew is Greater Than 90°:  
$$\frac{\text{Cos (Bridge Skew Angle - 90°)}}{\text{Cos (Bridge Skew Angle - 90°)}} = \text{Dis. Between Wingwalls}$$

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**422D10**

NORTH CAROLINA  
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J. S. HOWARD  
2/8/05

**PROJECT SERVICES UNIT  
STANDARDS AND SPECIAL DESIGN**  
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**SEE PLATE FOR TITLE**

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