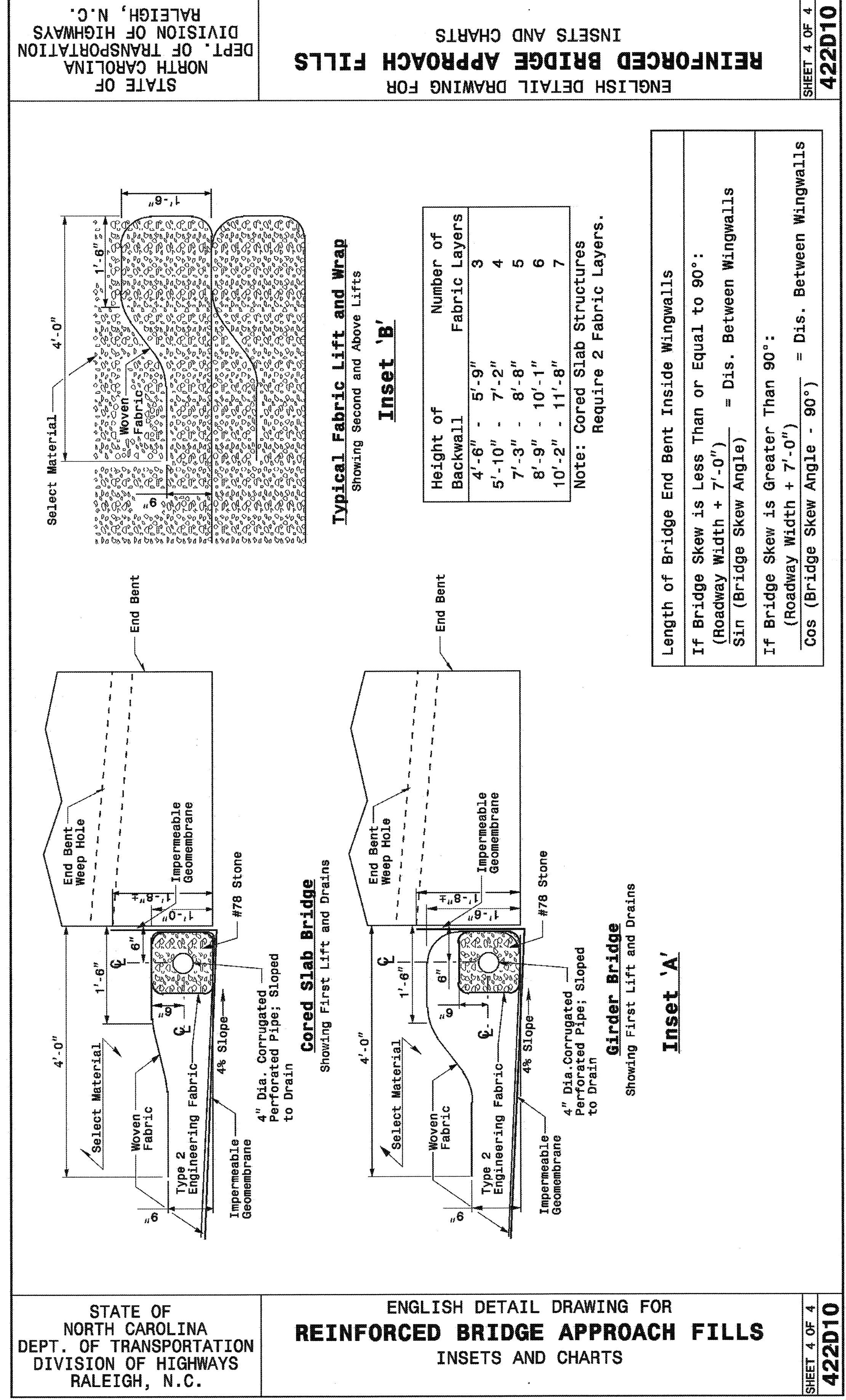
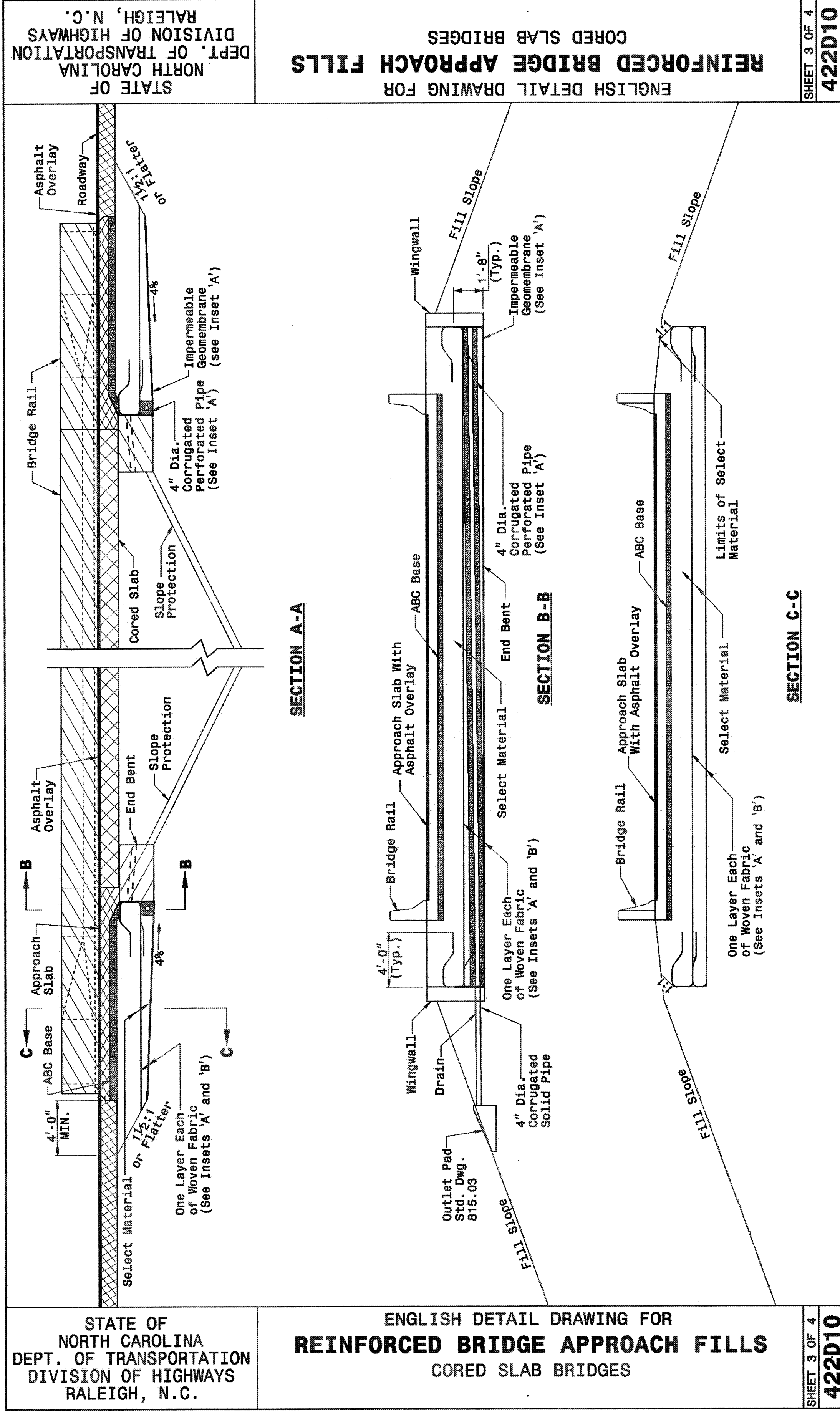
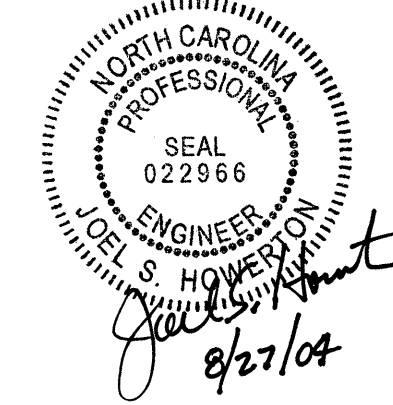


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 erickward
 8/27/04



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

If Bridge Skew is Greater Than 90°:
(Roadway Width + 7'-0") = Dis. Between Wingwalls
Cos (Bridge Skew Angle - 90°)



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

SEE PLATE FOR TITLE

ORIGINAL BY: 2002 STANDARDS DATE: 01-15-02
 MODIFIED BY: E.E. WARD DATE: 03-26-03
 CHECKED BY: DATE:
 FILE SPEC.: stds/02stdstodetails/english/422d10.dgn