

## GENERAL NOTES

SLOPE PROTECTION SHALL BE PLACED UNDER THE ENDS OF THE BRIDGE AS SHOWN IN THE DETAILS. THE CONTRACTOR, AT HIS OPTION, MAY USE ALTERNATE "B" ONLY FOR HIGHWAY OVER HIGHWAY GRADE SEPARATIONS WITH 2:1 END BENT SLOPE IN RURAL, UNPOPULATED AREAS. STRAIGHT EDGING WILL NOT BE REQUIRED UNLESS, IN THE OPINION OF THE ENGINEER, VISUAL INSPECTION INDICATES A NEED FOR IT. METHOD OF MEASUREMENT AND BASIS OF PAYMENT SHALL BE AS PRESCRIBED IN SECTION 462 OF THE STANDARD SPECIFICATIONS. FOR BERM WIDTH, SEE GENERAL DRAWING.

# ALTERNATE "A'

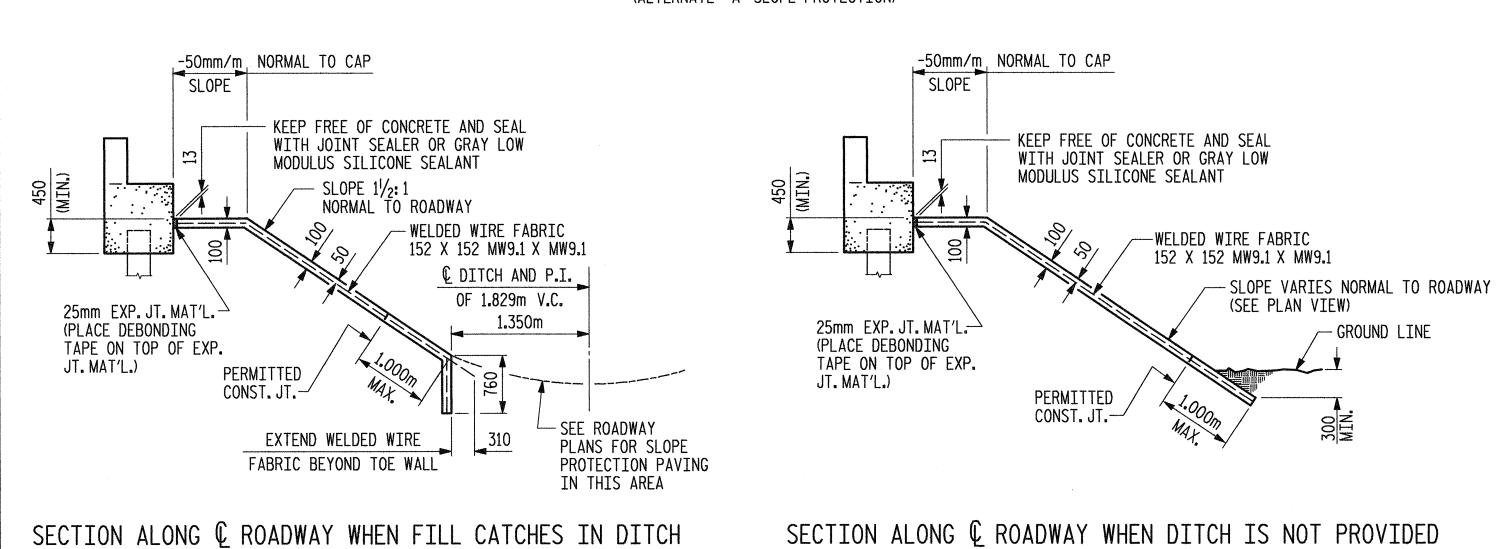
ALTERNATE "A" SHALL CONSIST OF 100mm POURED-IN-PLACE CONCRETE PAVING AS SHOWN IN THE DETAILS ON THIS SHEET. CONCRETE SHALL BE CLASS "B". THE CONCRETE SURFACE SHALL BE FLOATED WITH A WOODEN FLOAT AND FINISHED. WELDED WIRE FABRIC REINFORCING SHALL BE 152 X 152 - W9.1 X W9.1, 1520mm WIDE. SLOPE PROTECTION SHALL IN 1520mm STRIPS AS SHOWN IN THE "POURING DETAIL" WITH 600mm LONG #13 BARS PLACED ALONG THE SLOPE BETWEEN STRIPS AT 450mm MAXIMUM SPACING. SLOPE PROTECTION MAY BE POURED IN ALTERNATE 1220mm AND 1520mm STRIPS AS SHOWN IN THE "OPTIONAL POURING DETAIL" WITH ADJACENT RUNS OF WELDED WIRE FABRIC LAPPING AT LEAST 152mm. THE COST OF THE WELDED WIRE FABRIC AND #13 BARS, IF USED, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER SQUARE METER FOR SLOPE PROTECTION.

### FOR BERM WIDTH DIMENSIONS, SEE GENERAL DRAWING.

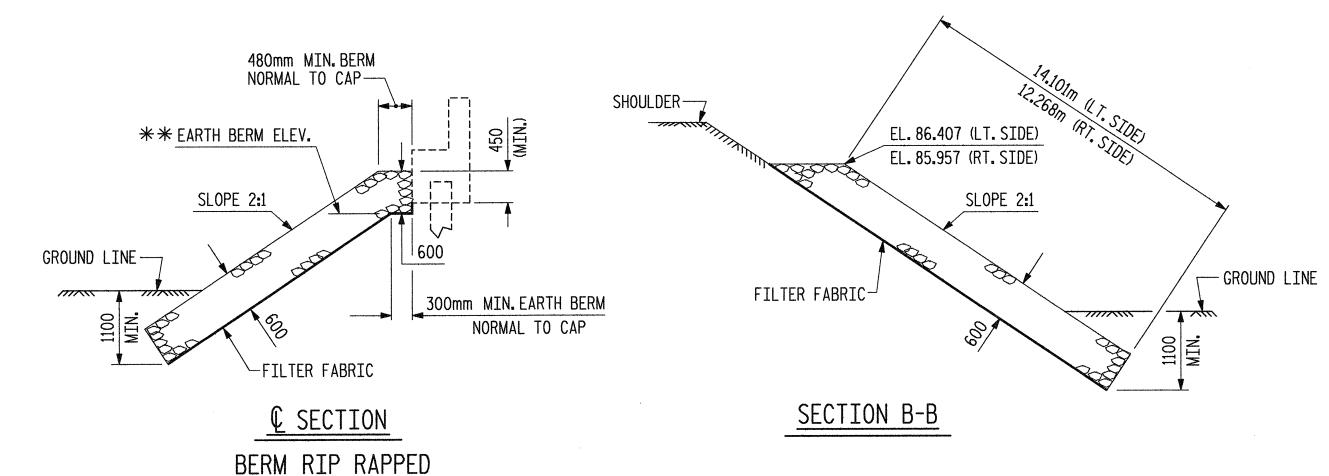
	ESTIMAT	ED QUANTITIES		
BRIDGE @ STA. 28+31.359 -I1Y1-	100mm SLOPE PROTECTION	₩ WELDED WIRE FABRIC 1520mm WIDE	600mm PLAIN RIP RAP CLASS II	FILTER FABRIC FOR DRAINAGE
	SQUARE METERS	APPROX. METERS	METRIC TON	SQUARE METERS
END BENT #1	245	161		
END BENT #2			825	850

\* QUANTITY SHOWN IS BASED ON 1520mm POURS.

(ALTERNATE "A" SLOPE PROTECTION)



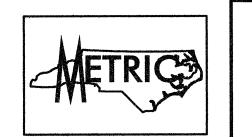
# PLAN AT END BENT #2 (CLASS II RIP RAP)



\*\* FOR BERM ELEVATIONS, SEE GENERAL DRAWING.

R-2552AA PROJECT NO. WAKE-JOHNSTON COUNTY

28+31.359 -I1Y1-STATION:



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

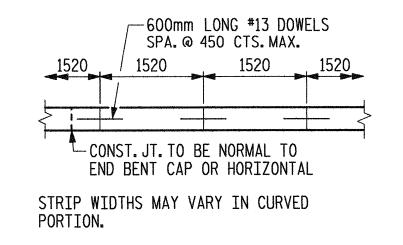
SLOPE PROTECTION AND

Plans prepared by:
KO & ASSOCIATES, P.C. Consulting Engineers 1011 SCHAUB DR., SUITE #202 RALEIGH, N.C. 27606 For Division of Highways DWG. NO. 52

RIP RAP DETAILS

SHEET NO. REVISIONS NO. BY: DATE: 5-135 BY: DATE: TOTAL SHEETS

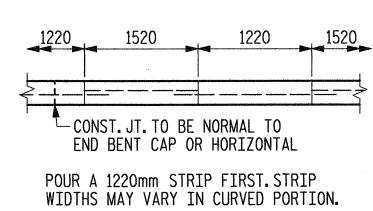
# DETAILS FOR ALTERNATE "A"

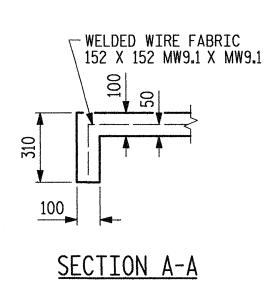


POURING DETAIL

DRAWN BY B.E. LANNING

CHECKED BY A.K. ORR





OPTIONAL POURING DETAIL

\_ DATE \_\_ JAN. 2005

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