

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
SUMMARY #1					
-L- Sta. 9+50.00 TO 12+90.50 (Beg. Bridge)	7		276	269	
-L- Sta. 14+18.50 (End Bridge) TO 17+40.00	8		443	435	
SUMMARY SUBTOTAL	15		719	704	
PROJECT SUBTOTAL	15		704	704	
Est. 5% For Replacing Topsoil On Borrow Pit				35	
PROJECT GRAND TOTAL	15		739	739	
SAY	20			750	

Est. Undercut = 200 CY

**PAVEMENT REMOVAL
 IN SQUARE YARDS**

LINE	LT/RT	STATION TO STATION	SQ.YD.
-L-	LT/RT	12+55.00 TO 13+00.00	100
-L-	LT/RT	14+09.00 TO 14+55.00	102
		PROJECT TOTAL	202
		SAY	210

SUMMARY OF SHOULDER BERM GUTTER

LINE	LT/RT	STATION TO STATION	FT.
-L-	LT	11+38.50 TO 12+76.50	138
-L-	RT	11+38.50 TO 12+76.50	138
		PROJECT TOTAL	276
		SAY	280

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	SIZE	THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)	STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)								BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)								ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE)	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL LENGTH PER ROW * QUANTITY SHALL BE COL. * X 1 (12.3 COL. 8)	FRAME, GRATES AND HOOD STANDARD 840.03	TYPE OF GRATE	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.F.T.	ABBREVIATIONS				
								12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"										R.C.P.	C.S.P.	E	F
-L- 9+50	RT	2		2	771.3																															
-L- 9+50	RT	2	4			767.6	767.0		16																											
-L- 11+41	LT	1		1	772.3																															
-L- 11+41	LT	1	3			769.6	769.5		32																											
-L- 11+41	RT	3		3	772.3																															
-L- 11+41	RT	3	2			769.5	767.6		192																											
GRAND TOTAL:									240																											

GUARDRAIL SUMMARY

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.

W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
 G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS							
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	III MOD	III	GRAU 350	B-77	XIII	CAT-1	VI MOD	BIC						AT-1						
																													EA	G	NG			
-L-	10+21.75	12+90.50	RT.	268.75					8	11	105		2.1			1	1																BRIDGE WARRANT	
-L-	10+21.75	12+90.50	LT.	268.75					8	11			105		2.1		1	1															BRIDGE WARRANT	
-L-	14+18.50	16+87.25	RT.	268.75					8	11		105		2.1		1	1																BRIDGE WARRANT	
-L-	14+18.50	16+87.25	LT.	268.75					8	11	105		2.1			1	1																BRIDGE WARRANT	
			SUB-TOTALS:	1075.00																														
			LESS ANCHOR DEDUCTIONS:																															
			GRAU 350	4 @ 50	200.00																													
			TYPE III	4 @ 18.75	75.00																													
			ANCHOR TOTAL DEDUCTION:	275.00																														
			GRAND TOTALS:	800.00																														
			SAY:	800.00																														ADDITIONAL GUARDRAIL POSTS = 5 EA.

10/20/2005
 At: Roadway Pro: 103848_r.djv.sum.dgn