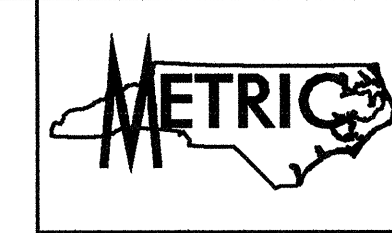


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS



SUMMARY OF EARTHWORK

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

LINE	STATION TO STATION	LOCATION	SQUARE METERS
Y-9	12+41.000 TO 12+85.000	RT	108
	13+10.000 TO 13+80.000	RT	198
	13+80.000 TO 15+84.000	RT	54
	16+86.000 TO 18+30.000	RT	697
Y-10	12+60.000 TO 14+83.000	LT	1,119
	15+45.000 TO 17+32.000	LT	924
		TOTAL	3,100
		SAY	3,200

LINE	STATION TO STATION	UNCLASS. EXCAV. C.M.	UNDERCUT C.M.	EMBANK'MT + % C.M.	BORROW C.M.	WASTE C.M.
-L-	102+80.000 TO 112+80.000	39,940	244	127,429	87,489	244
	112+80.000 TO 122+87.270	131,294	9,731	331,918	200,624	9,731
Y-12	13+26.262 TO 19+65.014	24,962		7,294		17,668
	SUBTOTAL	196,196	9,975	466,641	288,113	27,643
-L-	124+45.000 TO 129+30.000	153,906		86,447		67,459
	129+30.000 TO 139+80.000	329,072		136,607		189,945
Y-9	11+09.425 TO 16+00.000	189,568		20		189,548
	16+70.000 TO 19+83.707	5,534		23,519	17,985	
DRIVE A	10+20.000 TO 10+61.808	592		4		588
DRIVE B	10+20.000 TO 10+70.000	978				978
	SUBTOTAL	679,650		246,597	17,985	448,518
-L-	139+80.000 TO 149+80.000	352,852		84,004		268,848
	SUBTOTAL	352,852		84,004		268,848
-L-	149+80.000 TO 159+80.000	241,602	4,000	234,637		10,965
	SUBTOTAL	241,602	4,000	234,637		10,965
-L-	159+80.000 TO 169+80.000	254,400		93,232		161,168
	SUBTOTAL	254,400		93,232		161,168
-L-	169+80.000 TO 174+90.000	1,914		353,491	351,577	
	174+90.000 TO 180+68.273	4,273		459,418	455,145	
Y-10	10+72.211 TO 14+80.000	4,859		1,956		2,903
	15+50.000 TO 18+00.000	1,202		4,817	3,615	
DRIVE C	10+20.000 TO 10+53.000	87		3		84
DRIVE D	10+20.000 TO 10+48.850	82				82
DRIVE E	10+20.000 TO 10+49.000			103	103	
	SUBTOTAL	12,417		819,788	810,440	3,069
	PROJECT SUBTOTAL	1,737,117	13,975	1,944,899	1,116,538	920,211
	UNDERCUT CONTINGENCY		2,000	2,400	2,400	2,000
	UNDERCUT GRADE POINTS		940	1,128	1,128	940
	LOST DUE TO CLEARING AND GRUBBING	-86,856			86,856	
	WASTE USED IN LIEU OF BORROW				-906,236	-906,236
	SHOULDER MATERIAL			2,550	2,550	
	PROJECT TOTAL	1,650,261	16,915	1,950,977	303,236	
	ESTIMATE FOR REPLACING TOPSOIL ON BORROW PITS				15,162	
	GRAND TOTAL	1,650,261	16,915	1,950,977	318,398	
	SAY	1,650,500	17,000		318,500	
	EST. DDE =	31,100 CM				

"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.

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS				REMARKS		
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GRAU 350	CAT-1	TERM. END SECTION				
Y-9	17+09.970	19+50.000	LT.	240.030			19+20.000	17+10.000	2.4	3.4					1	1					
Y-9	17+85.960	18+69.780	RT.	83.820			18+50.000	18+60.000	2.4	3.4					2						
Y-10	15+90.000	17+23.350	RT.	133.350			16+20.000	16+93.100	2.4	3.4					2						
Y-12	19+48.075	19+63.315	RT.	11.430																	
	SUBTOTALS			468.630											5	1	2				
LESS ANCHOR DEDUCTIONS		GRAU-350	5@15.240	76.200																	
		CAT-1	1@1.905	1.905																	
		TERM. END SECT.	2@0.699	1.398																	
	TOTAL DEDUCTIONS			79.503																	
	TOTAL GUARDRAIL			389.127																	
	SAY			392.430																	
	ADDITIONAL GUARDRAIL POSTS			5 EA																	