COMPUTED BY: TLS	DATE: 3-2-05
CHECKED BY: REM	DATE: 3-7-05

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-3664	3-A

SUMMARY OF EARTHWORK

(IN CU. YDS.)

LOCATION	TOTAL UNCLASS. EXCAV.	UNDERCUT	EMBANKMENT %	BORROW	TOTAL WASTE
-L- (LT) 12+50.00 TO 15+00.00	136		97		39
-L- (RT) 12+50.00 TO 15+00.00	96		93		3
-L- (FULL) 15+00.00 TO 19+85.00 (BR)	6		3873	3867	
SUBTOTAL	238		4063	3867	42
USE WASTE IN LIEU OF BORROW				-42	-42
SUBTOTAL	238		4063	3825	0
-L- (FULL) 22+05.00 (BR) TO 25+00.00	102	229	2481	2451	301
-L- (LT) 25+00.00 TO 30+51.00	4		1402	1398	
-L- (RT) 25+00.00 TO 30+51.00	12		1103	1091	
-DR1- 11+90.00 TO 13+03.08	1		107	106	
SUBTOTAL	119	229	5093	5046	301
ROAD BED REMOVAL					
-L- (LT) 19+00.00 TO 21+00.00	1401				1401
-L- (LT) 21+50.00 TO 23+25.00	527				527
SUBTOTAL	1928				1928
PROJECT SUBTOTALS	2285	229	9156	8871	2229
EST. LOSS DUE TO CLEARING & GRUBBING PER GEOTECH MEMO 2-27-03	-500			+500	
ADD'L UNDERCUT PER DIVISION 6-24-04		1271			1271
PROJECT SUBTOTALS	1785	1500	9156	9371	3500
EST 5% TO REPLACE TOPSOIL ON BORROW PIT				+469	
PROJECT TOTALS	1785	1500	9156	9840	3500
SAY	1790	1500		9840	

DDE = 262 CU. YD.

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID AT THE LUMP SUM PRICE FOR "GRADING".

SUMMARY OF SHOULDER BERM GUTTER

LINE	STATION TO STATION	LOCATION	LINEAR FEET
-L-	19+38.70 to 19+62.90	RT	24.20
-L-	22+05.52 to 22+32.60	RT	27.08
-L-	19+69.49 to 19+84.49	LT	15.00
-L-	22+25.32 to 22+40.32	LT	15.00
		TOTAL	81.28
		SAY	90

SUMMARY OF PAVEMENT REMOVAL

LINE	STATION TO STATION	LOCATION	ASPHALT REMOVAL AREA (SY)	ASPHALT BREAK-UP AREA (SY)
-L-	15+00 TO 15+78.31	LT & RT	183.81	
-L-	15+78.31 TO 19+85	LT & RT		787.79
-L-	18+17 TO 20+99	LT	397.45	
-L-	21+50 TO 25+20	LT	852.78	
-L-	23+55 (Driveway)	LT & RT	153.92	
		TOTAL	1,587.96	787.79
		SAY	1,590	790

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

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12"	15"	18"	24"	30"	36"	42"	48"	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHRWISE) 12"	15"	18"	24"	30"	36"	42"	48"	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") LIN. *FT. PER EACH (0' THRU 5.0')	A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	T.B.D.I. STD. 840.35	8" PVC PIPE	PVC ELBOWS NO. & SIZE	CORR. STEEL ELBOWS NO. & SIZE	PIPE REMOVAL LIN.FT.	REMARKS
SIZE / THICKNESS OR GAUGE																.064	.064	.064	.064	.079	.079	.109	.109																			
-L- 15+33	LT	1																							24'																20'	
-L- 13+50	RT	1A																							24'																	
-L- 19+30	LT	2																																							20'	
-L- 19+41.80	RT	3		2067.94'	2065.19'																								1				1	1								SEE STD. 820.04
		3	4		2065.19'	2063.00'											16'																							2-15"		
-L- 22+29.50	RT	5		2071.94'	2069.19'																								1				1	1								SEE STD. 820.04
		5	6		2069.19'	2064.75'											24'																							2-15"		
-L- 23+59.66	RT	7																						56'																		
-L- 29+10.50	LT	9	10		2072.90'	2066.10'													20'																					2-24"		ROD & LUG & SLEEVE GASKET CONNECTORS
-L- 29+13.60	LT	9	10		2072.90'	2066.10'													20'																					2-24"		ROD & LUG & SLEEVE GASKET CONNECTORS
-L- 29+04.46	LT	11																																					5'	1-8"		
PROJECT TOTALS																	40'		40'					56'	48'				2				2	2					5'	1-8"	4-15" 4-24"	40'	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
M.D.I.	MEDIAN DROP INLET
M.D.I. (N.S.)	MEDIAN DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUCTION BOX

"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

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH STRAIGHT	LENGTH SHOP CURVED	LENGTH DOUBLE FACED	WARRANT POINT APPROACH END	WARRANT POINT TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH APPROACH END	FLARE LENGTH TRAILING END	W APPROACH END	W TRAILING END	ANCHORS XI MOD	III	GRAU 350	TEMP WBEAM	TEMP GRAU 350	TERMINAL SECTIONS	VI MOD	BIC	AT-1	IMPACT ATTENUATOR TYPE 350 EA	G	NG	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
-L-	17+81.65	19+62.90	RT	181.25'			19+62.90 (BR)		8'	11'	50'		1'			1	1											368		
-L-	19+03.24	19+84.49	LT	81.25'			19+84.49 (BR)		5'	11'		62.50'		1.25'		1	1											199		
-L-	22+05.52	22+86.77	RT	81.25'			22+05.52 (BR)		6.84'	11'		62.50'		1.25'		1	1											181		
-L-	22+25.32	23+56.57	LT	131.25'			22+25.32 (BR)		5.43'	11'	112.50'		2.25'			1	1											176		
-L-	24+29.06	29+54.06	LT	525.00'			26+00.00 (F)		8'	11'	150'	50'	3'	1'			1													
-L-	25+04.06	29+54.06	RT	450.00'			26+00.00 (F)		8'	11'	50'	125.5'	1'	2.51'			1													
-L-	19+95 +/-		LT															1												
		SUB-TOTAL		1450.00'																										
	LESS ANCHOR	DEDUCTIONS																												
		GRAU-350	6 @ 50.00' =	-300.00																										
		TYPE III	4 @ 18.75' =	-75.00																										
			TOTAL:	1075'												4	6	1										924		
	(5 ADDITIONAL GUARDRAIL POSTS)																													

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