COMPUTED BY: GSP	DATE: 10/17/2002
CHECKED BY: SLK	DATE: 11/25/2003

PROJECT NO.	SHEET NO.
B-3623	3-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

LINE	Station	Station	Uncl. Excav. YD³	Embank. + % YD³	Borrow YD³	Waste YD³
BEFORE BRIDGE						
-L-	12+65.00	17+45.00	170	7616	7446	
		SUB TOTAL	170	7616	7446	
AFTER BRIDGE						
-L-	19+30.00	26+35.00	1029	17153	16124	
		SUB TOTAL	1029	17153	16124	
		TOTAL	1199	24769	23570	
TEMPORARY WIDENING						
BEFORE BRIDGE						
-L-	12+65.00	17+45.00	633	516		117
		SUB TOTAL	633	516		117
AFTER BRIDGE						
-L-	19+30.00	26+35.00	519	436		83
		SUB TOTAL	519	436		83
		TOTAL	1152	952		200
		SUBTOTAL	2351	25721	23570	200
Loss due to C&G			-50		50	
Est. Shoulder Material				252	252	
Waste in Leiu of Borrow					-200	-200
		SUBTOTAL	2301	25973	23672	0
Estimate 5% for topsoil repl.					1184	
		GRAND TOTALS:	2301	25973	24856	0
		SAY:	2350		24900	

UNDERCUT EXCAVATION	500
DDE	200

Approximate quantities only. Unclassified excavation, borrow excavation, shoulder borrow, fine grading, clearing and grubbing, breaking of existing pavement and removal of existing pavement will be paid for at the lump sum price for "Grading".

RIGHT OF WAY AREA DATA

PARCEL No.	PROPERTY OWNERS NAME	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	CONST. EASEMENT	PERMANENT UTILITY EASEMENT
1	JERRY WAYNE LINKER		1.45 AC.			0.21 AC.	
2	EDDYNE McKENZIE STARCHER	21.25 AC.	2301.67 SF		21.19 AC.	0.13 AC.	3412.93 SF
3	W. K. ALEXANDER, ESTATE	24090.68 SF	21738.42 SF	2352.26 SF		332.92 SF	
4	EDNA ALICE HILL		0.14 AC.			0.23 AC.	
5	DOROTHY G. SNYDER		1457.98 SF			0.29 AC.	

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

LINE	STATION	TO STATION	LOC LT/RT/CL	YD²
-L-	16+65.00	17+93.00	LT	186.0
-L-	18+69.00	21+54.00	LT.	642.0
-L-	21+54.00	23+53.00	LT.	191.0
			TOTAL	1019.0
			SAY	1020.0

SUMMARY OF BREAKING OF EXISTING ASPHALT PAVEMENT

-L-	14+35.00	17+45.00	LT	499.0
-L-	21+20.00	22+50.00	LT.	226.0
			TOTAL	725.0
			SAY	730.0

GUARDRAIL SUMMARY

LINE	BEG. STA.	END STA.	LOC.	LENGTH STRAIGHT	LENGTH SHOPCURVED	LENGTH DOUBLE FACE	WARRANT POINT APPR. END	WARRANT POINT TRAIL. END	"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH APPR. END	FLARE LENGTH TRAIL. END	W APPR. END	W TRAIL. END	ANCHORS XI MOD	ANCHORS TYPE III	ANCHORS GRAU 350	ANCHORS M-350	ANCHORS XII	ANCHORS CAT-1	ANCHORS VI MOD	IMP. ATTEN. TYPE 350 EA	IMP. ATTEN. TYPE 350 G	IMP. ATTEN. TYPE 350 NG	REMOVE EXISTING GRDRAIL	REMARKS
-L-	15+32.50	17+45.00	RT.	212.5			15+32.50		8	11	1.00	0.00				1	1									
-L-	16+57.50	17+45.00	LT.	87.5				16+57.50	8	11	0.00	1.00				1	1									
-L-	19+30.00	20+80.00	RT.	150				20+00.00	8	11	0.00	1.00				1	1									
-L-	19+30.00	21+42.50	LT.	212.5			21+42.50		8	11	1.00	0.00				1	1									
		SUBTOTAL		662.500												4	4									
		DEDUCT FOR ANCHOR UNITS GRAU-350	4 X 50'	-200.000																						
		TYPE III	4 X 18.75'	-75.000																						
			SUBTOTAL	387.500																						
			SAY	387.500												4	4									
			SAY	5 ADDITIONAL GUARDRAIL POSTS																						

"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

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

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT IN ELEVATION	INVERT OUT 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 OTHERWISE) 12" 0.064	15" 0.064	18" 0.064	24" 1.63	30" 0.079	36" 0.079	42" 0.109	48" 0.109	15" CS PIPE CULVERTS, 0.064" THICK - TEMPORARY	15" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	ENDWALLS CU. YARDS C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE "A" + (1.5 X COL. "B") PER EACH (0' THRU 5.0')	YARDS A 5' THRU 10.0'	YARDS B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	TBDI STD. 840.38	GRATE & FRAME STD. 840.29	15" CS PIPE ELBOWS, 0.064" THICK	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" YD' STD. 840.72	CONC. & BRICK PIPE PLUG, YD' STD. 840.71	PIPE REMOVAL (FEET)	REMARKS
14+05.00	LT.	1																						24	24																							52	Temp. 15" CSP for Temp. Pavt. & Exist. 12" Conc.
14+08.00	RT.	2								44 (UNCOATED)																																					34	
19+74.66	RT.	3		558.43																								1						1	1												
19+74.66	CL	3	4		555.26	555.06			36																																						
19+74.66	LT.	4		558.43																								1						1	1												
19+74.66	LT.	4	5		555.06	543.50											40 (UNCOATED)																			2											
							TOTAL:		36								40	44						24	24			2					2	2	2											86	

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 JUNCTION BOX