PROJECT REFERENCE NO.	SHEET NO.
B-3659	3-A

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

(IN CUBIC YARDS)

LOCATION	TOTAL UNCLASS. EXCAV.	UNDERCUT	EMBANKMENT + %	BORROW	TOTAL WASTE
-L- (LT) 12+30.00 TO 14+25.75 (BEG. BRIDGE)	123		17	0	106
-L- (RT) 12+30.00 TO 13+93.71 (BEG. BRIDGE)	115		13	0	102
-Y- (LT) 11+00.00 TO 12+73.14	0		25	25	0
-Y- (RT) 11+00.00 TO 12+73.14	2		137	135	0
-Y- (FULL) 12+73.14 TO 14+37.68	188		104	0	84
SUBTOTAL	428		296	160	292
-L- (LT) (END BRIDGE) 14+81.48 TO 17+10.00	16		18	2	0
-L- (RT) (END BRIDGE) 14+53.71 TO 17+10.00	218		29	0	189
-DR1- (FULL) 10+14.77 TO 11+61.65	63		1	0	62
SUBTOTAL	297		48	2	251
PROJECT SUBTOTAL	725		344	162	543
WASTE AVAILABLE IN LIEU OF BORROW				-162	-162
PROJECT TOTAL	725		344	0	381
SAY	750			0	
UNDERCUT EXCAVATION CONTINGENCY		50			

SUMMARY OF REMOVAL OF EXISTING ASPHALT PAVEMENT

LINE	STATION TO STATION	LOCATION	AREA S.Y.
-Y-	11+59.53 TO 14+37.68	LEFT	284
-DR1-	10+39.98 TO 11+25.67	RIGHT	120
		TOTAL	404
		SAY	410

COMPUTED BY: R. Shillinglaw DATE: OCT 25, 2004
CHECKED BY: R. Shillinglaw DATE: OCT 25, 2004

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')	5.0' THRU 10.0' A	10.0' AND ABOVE B	STD. 840.02 OR STD. 840.01 C.B. STD. 840.01	FRAME & NARROW SLOT FLAT GRATES, STD. 840.29	TRAFFIC BEARING DROP INLET, STD. 840.35	M.D.I., TYPE "D", STD. 840.19 OR STD 840.28	FLOWABLE FILL MATERIAL C.Y.	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.FT.	REMARKS
																.064	.064	.064	.064	.079	.079	.109	.109																												
-L- 14+76	RT	1		3020.44	3018.52	3018.00			20'																				1			1		1													SEE STD 820.04 FOR D.I. IN SHOULDER BERM GUTTER
-DR1- 10+34	CL	2																						48'																									
PROJECT TOTALS									20'															48'					1			1		1													

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	B-77	GRAU 350	B-77 SHOP CURVED	TEMP GRAU 350	TERMINAL SECTIONS	VI MOD	*SKT	AT-1	IMPACT ATTENUATOR TYPE 350 EA	G	NG	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
-L-	13+82.00	14+25.75	LEFT	43.75'			14+25.75		3.00'	6.00'						1						1								* PROPRIETARY ITEM— GR ON EXTENDED TANG. TO BRDG RAIL
-L-	14+81.48	15+25.23	LEFT	43.75'			14+81.48		3.15'	6.00'						1						1								* PROPRIETARY ITEM
-L-	12+81.21	13+93.71	RIGHT	112.50'			13+93.71		3.96'	6.00'	43.75'		0.88				1	1												
-L-	14+53.71	14+97.46	RIGHT	43.75'			14+53.71		5.57'	8.57'						1						1								* PROPRIETARY ITEM
		SUBTOTAL		243.75'																										
		LESS ANCHOR DEDUCTIONS																												
		GRAU-350	1 @ 50.00' =	-50.00'																										
		TYPE B-77	3 @ 18.75' =	-56.25'																										
		*SKT	3 @ 25.00' =	-75.00'																										
		TYPE B-77 SHOP CURVED	1 @ 18.75' =	-18.75'																										
		TOTAL ANCHOR DEDUCTIONS		-200.00'																										
		PROJECT TOTAL		43.75'												3	1	1				3								
		SAY		50.00'																										
			(5 ADDITIONAL GUARDRAIL POST)																											

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RShillinglaw
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