99	COMPUTED BY:	RES	DATE:_	12–14
	CHECKED BY:	DJM	DATE:	1–15

"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

SURVEY		END STA.	LOCATION	LENGTH		WARRANT		"N" DIST.	TOTAL			w		ANCHORS					IMPACT ATTENUATOR TYPE 350	SINGLE FACED	REMOVE	REMOVE & STOCKPILE				
SURVEY LINE E	BEG. STA.			STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	SHOUL WIDTH	APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	хі	GRAU 350 N TL-2	1-350 TYPE III	CAT-1		TEMP. TE W E BEAM SE	ND G NG	CONCRETE BARRIER	EXISTING GUARDRAIL		REMARKS
-L-	16+18.03	16+93.03	LT.	75.00				16+93.03	4	7		50.00		1.00			1	1								
-L-	16+01.96	16+76.96	RT.	75.00			16+76.96		4	7	50.00		1.00				1	1								
-L-	17+63.04	20+00.54	LT.	237.50			19+25.00	17+63.04	4	7	50.00		1.00				1	1								
-L-	17+46.97	18+21.97	RT.	75.00				17+46.97	4	7		50.00		1.00			1	1								
-L-	17+02.50	17+20.63	RT.	25.00																		2				LOCATED AT END OF ROAD - RT. OF PROP. BRIDGE
			SUBTOTAL	487.50													4	4				2				
		ANCHOR UNIT D																								
			0 TL-2: 4 @ 25.00																							
			E III: 4 @ 18.75 =																							
		TOTAL:		175.00																						
			TOTAL	040.50																						
			TOTAL	312.50													4	4				2				
		[_]	SAY	325.00																						
		ADDITIONAL GU	JARDRAIL POSTS	5																						
	10.00.00																									
-L-	16+93.00	CENTER OF EXIS	T BRIDGE - RT.																							

SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav.	Emba +%
-L- STA. 12+00.00	-L- STA. 16+83.70 (BRIDGE)	962	876
-DR1- STA. 10+00.00	-DR1- STA. 11+59.48	13	89
SUBTOTALS:		975	965
-L- STA. 17+56.30 (BRIDGE)	-L- STA. 22+80.00	782	210
SUBTOTALS:		782	210
PROJECT TOTALS:		1757	306
SHOULDER CONSTRUCTION			58
LOSS DUE TO CLEARING & GRUBBI	NG	-100	
ADDITIONAL UNDERCUT			115
EARTH WASTE TO REPLACE BORRO	W		
SELECT GRANULAR MATERIAL, CLA	ASS III		-489
PROJECT TOTALS:		1657	275
EST, 5% TO REPLACE TOP SOIL ON	BORROW PIT		
GRAND TOTALS:		1657	275
SAY:		1700	
EST. DDE = 31 CUBIC YAR SELECT GRANULAR MATE			
CONTINGENCY ITEMS:		-	
SHALLOW UNDERCUT = 1	00 CY		
		_	

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

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

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GUARDRAIL SUMMARY

Embank.	Borrow	Waste
+%		
876	0	86
89	76	0
965	76	86
2102	1320	425
2102	1320	425
3067	1396	511
58	58	
	100	
115	115	100
	-86	-86
-489	-489	
2751	1094	525
	55	
2751	1149	525
	1200	

SHOULDER BERM GUTTER SUMMARY

LINE	Station	Station	LENGTH
-L-	16+48.00	16+64.65	16.65
		TOTAL:	16.65
		SAY:	17

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS								
SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP	
-L-	12+21.90	16+83.50	RT.	788.7				
-L-	17+00.14	22+55.00	RT.	650.6				
REMOVE TEMP SHO	RING PAVEMENT							
-L-	15+79.00	16+85.00	RT.	35.3				
-L-	17+21.00	20+70.00	RT.	135.7				
		TOTAL:		1610.3				
		SAY:		1620				

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PROJECT REFERENCE NO.	SHEET NO.
B–5404	3B–1

G = GATING IMPACT ATTENUATOR TYPE 350 NG = NON-GATING IMPACT ATTENUATOR TYPE 350