

COMPUTED BY: DWG DATE: 5/24/04
 CHECKED BY: JBG DATE: 6/03/04

PROJECT REFERENCE NO. B-3629
 SHEET NO. 3-B

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

GUARDRAIL SUMMARY

"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

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			REMARKS													
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE 350	TYPE-III	TEMP. TYPE 350	TEMP. TYPE-III	EA	G	NG																		
-L-	14+37.50	18+50.00	LT.	412.50			18+50.00	15+72.00	5	8	50	50	1	1	2																								
-L-	18+80.50	25+43.00	LT.	662.50			25+43.00	18+80.50	5	8	50	50	1	1	1	1	3																						SEE TRAFFIC CONTROL PLANS FOR LOCATION OF TEMP.
-L-	27+87.00	30+62.00	LT.	275			30+62.00	27+87.00	5	8	50	50	1	1	1	1																							TYPE 350 PLACEMENT TO ALLOW THE CONTRACTOR ACCESS TO REMOVE THE DETOUR, SEE SHEET TCP-6.
-L-	13+43.75	19+43.75	RT.	600			15+60.36	19+43.75	5	8	50	50	1	1	2																								
-L-	19+68.00	25+43.00	RT.	575			19+68.00	25+55.00	5	8	50	50	1	1	1	1																							
-L-	27+87.00	30+74.50	RT.	287.50			27+75.00	29+50.00	5	8	50	50	1	1	1	1																							
SUBTOTAL				2812.50												8	4	3																					
ANCHOR UNIT DEDUCTION :																																							
GRAU-350 8 @ 50' =				-400																																			
TYPE III 4 @ 18.75' =				-75																																			
PROJECT TOTAL =				2337.50																																			
SAY =				2375.00			ADDITIONAL GUARDRAIL POSTS = 10 EA.																																
TEMPORARY GUARDRAIL																																							
-DET1-	11+88.61	16+88.61	LT.	500			16+88.61	12+88.61	4	7	50	50	1	1																									
-DET1-	17+25.81	18+75.81	LT.	150			18+75.81	17+25.81	4	7	50	50	1	1																									
-DET1-	12+33.00	16+45.50	RT.	412.5			13+33.00	15+45.50	4	7	50	50	1	1																									
-DET2-	10+00.00	14+50.00	LT.	450			14+50.00	10+00.00	2	7	100												1	1															
-DET2-	12+00.00	14+50.00	RT.	250			13+00.00	14+50.00	2	7		100											1	1															
-DET2-	15+50.00	17+50.00	LT.	200			16+50.00	15+50.00	2	7		100											1	1															
-DET2-	15+50.00	16+50.00	RT.	100			15+50.00		2	7	31.25		0.625										1	1															
SUBTOTAL				2062.50																				10	4														
ANCHOR UNIT DEDUCTION :																																							
GRAU-350 10 @ 50' =				-500																																			
TYPE III 4 @ 18.75' =				-75																																			
PROJECT TOTAL =				1487.50																																			
SAY =				1525.00																																			

SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	EMBT + %	BORROW	WASTE
PHASE I (DETOUR 1)				
-DET1- 10+00.00 TO 18+79.22	23	5811	5788	
PHASE I TOTALS	23	5811	5788	
PHASE II (DETOUR 2)				
-DET2- 10+00.00 TO 14+50.00 (BEG. BRIDGE)	6	2771	2765	
-DET2- 15+50.00 (END BRIDGE) TO 20+65.46	3	1598	1595	
PHASE II TOTALS	9	4369	4360	
PHASE III (-L-)				
-L- 11+50.00 TO 25+55.00 (BEG. BRIDGE)	170	2550	2380	
-L- 27+75.00 (END BRIDGE) TO 33+00.00	186	1095	909	
PHASE III TOTALS	356	3645	3289	
PHASE IV (DETOUR REMOVAL)				
-DET1- 10+00.00 TO 18+79.22	4468	66		4402
-DET2- 10+00.00 TO 14+50.00 (BEG. BRIDGE)	2157	62		2095
-DET2- 15+50.00 (END BRIDGE) TO 20+65.46	1040	66		974
PHASE IV TOTALS	7665	194		7471
PHASE TOTALS	8053	14019	13437	7471
5% EST. FOR REPL TOPSOIL ON BORROW PITS			672	
PROJECT TOTALS	8053	14019	14109	7471
SAY	8100		14200	
DDE=219 CY				
UNDERCUT CONTINGENCY=1000 CY				
SELECT GRANULAR MAT. CONTINGENCY=400 CY				
FABRIC FOR SOIL STABILIZATION=400 SY				

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

SUMMARY OF PAVEMENT REMOVAL IN SQUARE YARDS

LINE	STATION TO STATION	LENGTH OR AREA	WIDTH	ASPHALT REMOVAL SQ. YDS.
-L-	15+50.00 TO 15+72.75	22.75	14.78	37.36
-L-	16+08.20 TO 16+30.00	21.80	14.10	34.15
-L-	24+50.00 TO 25+61.40	111.40	16.50	204.23
-L-	27+62.10 TO 28+50.00	87.90	16.52	161.35
-L-	28+50.00 TO 31+00.00	250	18.66	518.33
-DET1-	10+00.00 TO 12+19.78	1848		205.33
-DET1-	12+19.78 TO 16+60.69	440.91	18	881.82
-DET1-	16+60.69 TO 18+79.22	1871		207.89
-DET2-	10+00.00 TO 11+80.25	1159		128.78
-DET2-	11+80.25 TO 14+50.00	269.75	18	539.50
-DET2-	15+50.00 TO 19+00.05	350.05	18	700.10
-DET2-	19+00.05 TO 20+65.46	837		93.00
			TOTAL	3711.84
			SAY	3800.00

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