

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA



PROJECT REFERENCE NO. <i>BR-0125</i>	SHEET NO. <i>3B-1</i>
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EARTHWORK SUMMARY (IN CUBIC YARDS)

CHAIN	FROM STATION	TO STATION	SIDE	UNCL. EXCAVATION	EMBT + %	BORROW	WASTE
-L-	10 + 35.00	14 + 49.56	LT & RT	814	2,022	1,208	
-L-	16 + 22.44	22 + 30.00	LT & RT	3,007	1,468		1,539
-Y-	10 + 15.00	11 + 50.00	LT & RT	13	143	130	
TOTAL				3,834	3,633	1,338	1,539
ROCK WASTE IN LIEU OF BORROW						-202	-202
ADJUST FOR ROCK SWELL					-61	-61	
ELIMINATE EARTH SHRINKAGE FACTOR FOR ROCK					-39	-39	
WASTE IN LIEU OF BORROW						-1,036	-1,036
PROJECT TOTAL				3,834	3,533		301
ESTIMATE 5% FOR TOPSOIL ON BORROW PITS							
GRAND TOTAL				3,834	3,533		301
SAY				3,900			

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

DDE: 1420 CY
CONTINGENCY UNDERCUT EXCAVATION: 450 CY
CONTINGENCY SELECT GRANULAR MATERIAL: 400 CY

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD'
REMOVAL OUTSIDE SLOPE STAKES				
-L-	10 + 97	14 + 25	LT	479.53
-L-	17 + 02	21 + 10	LT	505.90
REMOVAL WITHIN PROPOSED PAVEMENT				
-L-	19 + 46	20 + 75	LT	77.18
-Y-	10 + 75	11 + 67	LT/RT	289.64
TOTAL:				1,352.24
SAY:				1,360

PAVEMENT MARKING DETAIL

MARKING TYPE	CHAIN	FROM STATION	TO STATION	LENGTH (LF)
P1	-L- (LT)	10 + 35.00	22 + 30.00	2390.00
	-L- (RT)	10 + 35.00	22 + 30.00	2390.00
	-Y- (LT)	10 + 15.00	11 + 67.51	305.02
	-Y- (RT)	10 + 15.00	11 + 67.51	305.02
P13	-L-	10 + 35.00	22 + 30.00	4780.00
	-Y-	10 + 15.00	11 + 67.51	610.04
TOTAL:				10,780.08
SAY:				10,790

P1: 4" White Edge Lines (Two Layers of Paint with Line Factor 1)
P13 : 4" Yellow Double Center Lines (Two Layers of Paint with Line Factor 2)

* W MEASURED FROM "N" AT THE BEGINNING OF THE ANCHOR TO "N" AT THE END OF THE ANCHOR.
"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 (LF)			WARRANT POINT		"N" DIST. FROM E.O.L. (LF)	TOTAL SHOUL. WIDTH (LF)	FLARE LENGTH (LF)		W* (LF)		ANCHORS								IMPACT ATTENUATOR TYPE 350 EA G NG	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS										
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	B-77	GREU TL-3	GREU TL-2	TYPE III	CAT-1	VI MOD	BIC						AT-1									
-L-	13 + 75.06	14 + 58.46	LT	81.25				14 + 58.46	4.36 - 5.36	7.36-8.36	50		1.0																								
-L-	13 + 49.86	14 + 40.85	RT	93.75			14 + 40.85		5.02 - 6.02	8.02-9.02	50		1.0																								
-L-	16 + 31.34	17 + 12.08	LT	81.25			16 + 31.34		4.42 - 5.42	7.42-8.42	50		1.0																								
-L-	16 + 13.54	17 + 19.79	RT	106.25			16 + 13.54		4.42 - 5.42	7.42-8.42	50		1.0																								
TOTAL:				362.50																																	
ANCHOR LENGTH DEDUCTIONS:																																					
GREU TL-3 (4 @ 50')				200.00																																	
TYPE-III (4 @ 18.75')				75.00																																	
TOTAL ANCHOR LENGTH (DEDUCTIONS):				275.00																																	
TOTAL GUARDRAIL LENGTH:				87.50																																	
SAY:				87.50				5 ADDITIONAL G/R POSTS																													

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