COMPUTED BY: TC	DATE: 8/15/19
CHECKED BY: VBB	DATE: 1/22/20

PROJECT NO.	SHEET NO.
BR-0009	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
(In Cubic Yards)

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
SUMMARY NO. I DETOUR					
-L- STA. 11+77.98	-L- STA. 12+70.82 (DET BRIDGE)	37	90	53	
-L- STA. 13+45.86 (DET BRIDGE)	-L- STA. 15+00.00		507	507	
SUMMARY NO. I TOTALS		37	597	560	
SUMMARY NO. II					
-L- STA. 10+00.00	-L- STA. 12+60.93 (-L- BRIDGE)	19	350	331	
-L- STA. 13+28.50 (-L- BRIDGE)	-L- STA. 16+23.00	33	311	278	
SUMMARY NO. II TOTALS		52	661	609	
SUMMARY NO. III DETOUR REMOVAL					
-L- STA. 12+00	-L- STA. 12+70.82 (DET BRIDGE)	38			38
-L- STA. 13+45.86 (DET BRIDGE)	-L- STA. 14+50.00	370			370
SUMMARY NO. III TOTALS		408			408
SUMMARY TOTALS:		497	1258	1169	408
PROJECT TOTALS:		497	1258	1169	408
EST. 5% TO REPLACE TOPSOIL ON BORROW PIT				58	
GRAND TOTALS:		497		1227	
SAY:		500		1300	

GEOTEXTILE FOR SOIL STABILIZATION = 700 SY
EST. SHALLOW UNDERCUT CONTINGENCY = 100 CY
CLASS IV SUBGRADE STABILIZATION = 200 TONS
EST. UNDERCUT CONTINGENCY = 450 CY
SELECT GRANULAR MATERIAL = 400 CY

Note: These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

SHOULDER BERM GUTTER SUMMARY

LINE	Station	Station	LENGTH
-L- RT.	12+25.00	12+39.56	14.6
		TOTAL:	14.6
		SAY:	16

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

PAVEMENT REMOVAL SUMMARY
IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	12+00.00	12+75.00	CL	164.06			
-L-	13+15.00	14+00.00	CL	174.10			
-DET-	10+00.00	12+86.00	CL	178.11			
-DET-	13+62	16+23	CL	187.71			
		TOTAL:		703.98			
		SAY:		705			

COMPUTED BY:	VBB	DATE:	8/04/19
CHECKED BY:	DCS	DATE:	8/04/19

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

"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

GUARDRAIL SUMMARY

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 SHOUL WIDTH	FLARE LENGTH		W		ANCHORS					IMPACT ATTENUATOR TYPE 350		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE GREU TL-2	TYPE III	CAT I			G	NG				
-L-	12+13.77	12+70.02	BEG. BRG. LT.	56.25				12+70.02	4	9		25		0.5	1	1									
-L-	11+93.09	12+49.34	BEG. BRG. RT.	56.25			12+49.34		4	9	25		0.5		1	1									
-L-	13+36.75	13+93.00	END BRG. LT.	56.25			13+36.75		4	9	25		0.5		1	1									
-L-	13+18.63	13+74.88	END BRG. RT.	56.25				13+18.63	4	9		25		0.5	1	1									
			SUBTOTAL	225																					
LESS DEDUCTIONS FOR ANCHOR			GREU TL-2 4@ 25' =	-100																					
			TYPE III 4@18.75=	-75																					
			PROJECT TOTAL	50											4	4									
			SAY	50																					
ADDITIONAL GUARDRAIL POSTS = 5 EA.																									

TEMPORARY GUARDRAIL SUMMARY

	TEMP ONSITE DETOUR GUARDRAIL																								
-DET-	12+30.47	12+86.72	BEG. BRG. LT.	56.25				12+86.72	2	4		25			1	1									
-DET-	12+29.11	12+85.36	BEG. BRG. RT.	56.25			12+85.36		2	4	25				1	1									
-DET-	13+61.93	14+18.18	END BRG. LT.	56.25			13+61.93		2	4	25				1	1									
-DET-	13+62.07	14+18.32	END BRG. RT.	56.25				13+62.07	2	4		25			1	1									
			SUBTOTAL	225																					
LESS DEDUCTIONS FOR ANCHOR			GREU TL-2 4@ 25' =	-100																					
			TYPE III 4@18.75=	-75																					
			PROJECT TOTAL	50											4	4									
			SAY	50																					
ADDITIONAL GUARDRAIL POSTS = 5 EA.																									
	TEMP TRAFFIC MANAGEMENT PHASE I GUARDRAIL																								
-L-	13+25.68	13+85.68	END BRG. LT.	60.00													1								
																	1								