COMPUTED BY: RLC	DATE: 8/8/2024
CHECKED BY: DWK	DATE: 10/10/2024

PROJECT NO.	SHEET NO.
BR-0086	3B-1

STATE OF NORTH CAROLINA **DIVISION OF HIGHWAYS**

SUMMARY OF EARTHWORK

IN CUBIC YARDS

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- Sta 12+50.00 LT	-L- Sta 17+56.00 LT	19	4,829	4,810	
-L- Sta 20+96.00 LT	-L- Sta 26+00.00 LT	299	324	25	
SUBTOTAL		318	5,153	4,835	
-L- Sta 12+50.00 RT	-L- Sta 17+56.00 RT	126	73		53
-L- Sta 20+96.00 RT	-L- Sta 26+00.00 RT	37	693	656	53
SUBTOTAL		163	766	656	53
-L- Sta 12+50.00 LT	-L- Sta 17+56.00 LT		214	214	
-L- Sta 20+96.00 LT	-L- Sta 26+00.00 LT		58	58	
SUBTOTAL			272	272	
-DRWY- Sta 10+96.78	-DRWY- Sta 10+96.78		1,004	1,004	
SUBTOTAL			1,004	1,004	
SUBTOTALS:		481	7,195	6,767	53
MATERIAL FOR SHOULDER CONST	TRUCTION		235	235	
WASTE IN LIEU OF BORROW				-53	-53
PROJECT TOTALS:		481	7,195	6,949	
EST. 5% TO REPLACE TOPSOIL ON BORROW PIT				347	
PROJECT TOTALS:		481	7,195	7,296	
GRAND TOTALS:		401	7.105	7.204	
		481	7,195	7,296	
SAY:		505		7,665	

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
Temporary (L)	14+60.76	15+66.49	LT	79.38			
	15+92.29	17+41.48	LT	250.22			
	21+26.87	23+71.35	LT	320.77			
			TOTAL:	650.37			
			SAY:	660			

SHOUILDER BERM GUITTER SUMMARY

LINE	Station	Station	LENGTH
-L- RT	16+87.00	17+25.39	38.39
-L- RT	21+13.71	21+77.00	63.29
		TOTAL:	101.68
		SAY:	102

CONCRETE PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	15+81.41	16+53.51	LT	129.74			
-L-	16+50.00	17+68.78	CL	373.32			
-L-	20+82.55	22+50.00	CL	524.37			
			TOTAL:	1,027.43			
			SAY:	1,030			
_	_	_					

TOTAL SHALLOW UNDERCUT = 300 CY

TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.

W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL

PER GEOTECH RECOMMENDATION, ESTIMATED 200 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

Note: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the

Geotechnical Engineering Unit.

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL

COMPUTED BY:	Ronald Cribbs	DATE:	8/6/2024
CHECKED BY:	Douglas Kretchman	DATE:	10/4/2024
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DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

GUARDRAIL SUMMARY

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

SURVEY					LENGTH		WARRA	NT POINT	"N" DIST.	TOTAL	FLARE L	ENGTH.	v	I				ANCHORS			IMPA:	CT ATOR	.CT JATOR	SINGLE FACED	REMOVE	REMOVE & STOCKPILE		DEMARKS
SURVEY LINE	BEG. STA.	END STA.	LOCATION	STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	SHOUL	APPROACH END	TRAILING END	APPROACH END	TRAILING END	Type III	TEMPORARY O		TEMPORARY GREU, TL-3 CAT-1	AT-1	Type III SC B-77 SC	G		CONCRETE BARRIER	EXISTING GUARDRAIL	EVICTING	REMARKS	REMARKS	
-L-	11+59.00	17+49.57	RT	590.57'			12+50.00	N/A	6'	9'	50'	N/A	1'	NA	1		1	·						610'				
-L-	20+89.57	22+20.82	RT	131.25'			NA	21+50.00	6'	9'	N/A	50'	NA	1'	1	L	1							236'				
-L-	13+21.21	15+64.96	LT	243.75'			15+64.96	13+50.00	N/A	N/A	50'	N/A	1'	NA			1			1				228'				
	16+57.04	17+38.29	LT	81.25'			17+38.29	N/A	N/A	N/A	N/A	50'	NA	1.5'	1		1							110'				
-L-	21+26.54	23+70.29	LT	243.75'			21+26.54	N/A	N/A	N/A	50'	N/A	1.5'	NA	1		1							135'				
			Subtotals	1290.57'											4	·	5			1				1319'				
			Type-III = 4	-75.00'																								
			GREU TL-3 = 5	-250.00'																								
			AT-1 = 1	-6.25'																								
			Total	959.32'																								
			Say	962.50'																				1319'				
ADDITION	AL GUARDRAIL PO	STS = 5 EA																										

TEMPORARY GUARDRAIL SUMMARY

-L- TMP 13+05.00 15+75.00	LT 270.00'			2				
-L- TMP 16+05.00 17+65.00	LT 160.00'		1	1				
-L- TMP 13+05.00 15+75.00 -L- TMP 16+05.00 17+65.00 -L- TMP 21+05.00 23+40.00	LT 235.00'		1	1				
	Subtotals 665.00'							
	Type-III = 2 -37.50'							
	Type-III = 2 -37.50' GREU TL-3 = 4 -200.00'							
	Total 427.50'							
	Say 437.50'							
				·		-	-	