PROJECT REFERENCE NO.	SHEET NO.
BR-0070	3B-1

SUMMARY OF EARTHWORK

IN CUBIC YARDS

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
PHASE 1					
-L- Sta. 13+00.00	-L- Sta. 20+50.00	8,763	2,077	0	6686
-L- Sta. 40+50.00	-L- Sta. 48+00.00	11,339	314	0	11025
-L- Sta. 20+50.00	-L- Sta. 29+13.08 (BR)	4,574	21,224	16,650	0
-L- Sta. 32+01.08 (BR)	-L- Sta. 40+50.00	973	30,757	29,784	0
SUBTOTAL:		25,649	54,372	46,434	17,711
PHASE 2					
-L- Sta. 20+50.00	-L- Sta. 29+13.08 (BR)	348	0	0	348
-L- Sta. 32+01.08 (BR)	-L- Sta. 40+50.00	414	0	0	414
SUBTOTAL:		762	0	0	762
TOTAL:		26,411	54,372	46,434	18,473
MATERIAL FOR SHOULDER CONSTRUCTION			1,200	1,200	0
WASTE IN LIEU OF BORROW				-17,711	-17,711
PROJECT TOTAL:		26,411	55,572	29,923	762
EST. 5% REPLACE TOPSOIL ON BORROW PIT				1,496	
GRAND TOTAL:		26,411	55,572	31,419	762
SAY:		**27,730**		**32,990**	

EST. DDE = 160 CUBIC YARDS
EST. GEOTEXTILE FOR SOIL STABILIZATION = 400 SQUARE YARDS
EST. SELECT GRANULAR MATERIAL = 400 CUBIC YARDS
EST. ADDITIONAL UNDERCUT = 450 CUBIC YARDS

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

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	18+83	28+96	LT	2,217			
-L-	31+59	43+08	LT	2,226			
		TOTAL:		4,443			
		SAY:		**4,450**			

SHOULDER BERM GUTTER SUMMARY

IN LINEAR FEET

LINE	Station	Station	LENGTH
-L- RT	21+00	22+52	152
-L- RT	26+00	29+00 (BR)	300
-L- RT	32+36 (BR)	39+67	731
		TOTAL:	1183
		SAY:	**1190**

COMPUTED BY: *Joshua Roemer* **DATE:** *12/8/2021*
CHECKED BY: *Michael Burns, PE* **DATE:** *12/8/2021*

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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 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	B-77	XI	GREU TL-3	M-350	AT-1	CAT-1	TYPE II	BIC	G	NG				
-L-	13+00.00	15+53.00	RT	253.00				14+28.00	10'	13'		50'		1'			1									101.6		TIE TO EXISTING GUARDRAIL
-L-	13+00.00	18+53.00	LT	553.00			17+28.00		8'	11'	50'		1'				1									189.5		TIE TO EXISTING GUARDRAIL
-L-	24+75.36	29+15.70	RT	440.34			26+00.36		10'	13'	50'		1'		1		1											
-L-	27+56.55	28+94.05	LT	137.50				28+94.05	4'	7'		50'		1'	1		1											
-L-	32+00.61	35+00.61	LT	300.00			32+00.61		10'	13'	50'		1'		1		1											
-L-	32+22.26	39+84.55	RT	738.29	24.00			38+59.55	10'	13'		50'		1'	1				1									
			SUBTOTAL:	2,422.13	24.00										4		5		1							291.1		
		LESS ANCHOR DEDUCTIONS:																										
		TYPE B-77 (4@22.875')		91.50																								
		GREU, TL-3 (5@50')		250.00																								
			AT-1 (1@6.25')		6.25																							
			TOTAL:	2,080.63	17.75										4		5		1							291.1		
			SAY:	2,150.00	25.00										4		5		1							873.3		
		ADDITIONAL GUARDRAIL POSTS= 10 EA																										

11/16/2022
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USER:mburns