

COMPUTED BY: KK
CHECKED BY: FAB

DATE: 8/31/21
DATE: 9/2/21

PROJECT NO.
BR-0033

SHEET NO.
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					
-L- STA. 10+30.00	-L- STA. 15+15.26 (BB)	463	8232	7769	
-L- STA. 17+24.26 (EB)	-L- STA. 18+44.52	63	2466	2403	
-RPC- STA. 11+90.00	-RPC- STA. 13+67.43	332	15		317
-RPD- STA. 10+22.15	-RPD- STA. 11+90.00	5	668	663	
SUMMARY NO. I TOTALS		863	11381	10835	317
SUMMARY NO. II					
-Y2- STA. 11+25.00	-Y2- STA. 13+80.01	4	366	362	
-TEMP RAMP- STA. 12+43.92	-TEMP RAMP- STA. 14+24.52	230	15		215
-TEMP RAMP- STA. 12+43.92	-TEMP RAMP- STA. 14+24.52	13	265	252	
SUMMARY NO. II TOTALS		247	646	614	215
SUMMARY TOTALS:		1110	12027	11449	532
LOSS DUE TO CLEARING AND GRUBBING		-30		30	
WASTE IN LIEU OF BORROW				-532	
PROJECT TOTALS:		1080	12027	10947	532
EST. 5% TO REPLACE TOPSOIL ON BORROW PIT				547	
GRAND TOTALS:		1080		11494	
SAY:		1100		11500	
UNDERCUT CONTINGENCY = 450 CY					
GEOTEXTILE FOR SOIL STABILIZATION = 700 SY					
SELECT GRANULAR MATERIAL = 400 CY					
EST. SHALLOW UNDERCUT = 100 CY					
CLASS IV SUBGRADE STABILIZATION = 200 TONS					

SHOULDER BERM GUTTER SUMMARY IN LINEAR FEET

LINE	Station	Station	LENGTH
-L- LT.	END BRIDGE	18+20.00	77
-L- RT.	END BRIDGE	18+20.00	87
-L- LT.	14+87.00	BEGIN BRIDGE	19
-L- RT.	14+77.00	BEGIN BRIDGE	19
TOTAL:			202
SAY:			205

PAVEMENT REMOVAL SUMMARY IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT PAVEMENT REMOVAL	ASPHALT PAVEMENT BREAKUP	CONCRETE PAVEMENT REMOVAL	CONCRETE PAVEMENT BREAKUP
-L-	11+91.45	13+00.00	LT	195.09			
-L-	13+76.00	15+23.00	LT	360.65			
-L-	17+48.00	18+32.00	LT	391.11			
-L-	13+00.00	13+60.10	CL	233.27			
-Y2-	11+25.00	13+76.76	CL	560.88			
-RPC-	11+90.00	13+67.43	CL	834.14			
-RPD-	10+22.15	11+90.00	CL	452.6			
-TEMP RAMP-	12+43.92	14+24.52	CL	401.64			
-I40-	7+01.03	8+68.19	SHOULDER RT	188.79			
-I40-	12+30	22+10	SHOULDER LT	1043.09			
TOTAL:				4661.27			
SAY:				4700			

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

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.

GUARDRAIL SUMMARY

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	AT-1	TYPE III	CAT-1	G	NG					
-L-	-RPC- 13+01.66	15+20.55	BEG. BRG. LT.	137.50	75.00				4	11														
-L-	-RDP- 11+00.34	15+09.97	BEG. BRG. RT.	112.50	50.00		15+09.97	15+20.55	4	11	100	100	2	2	1	1						103		
-L-	17+29.55	18+26.95	END BRG. LT.	62.50	62.50		17+29.55		4	11					1	1						104		
-L-	17+18.97	18+49.48	END BRG. RT.	100.00	50.00			17+18.97	4	11					1	1						44		
-RPC-	-RCP- 12+12.94	-Y2-13+20.54	-RPC- RT	137.50	187.50		12+50.00		8	11	83.5		4		1							56		
-I40-	18+14.21	19+68.09	MEDIAN RIGHT	162.50				19+41.37	10	13												73		
-I40-	18+47.62	19+73.36	MEDIAN LEFT	137.50					10	13												68		
SUBTOTAL				850.00	425.00				10	13												159		
LESS DEDUCTIONS FOR ANCHOR																						607		
AT-1 5@6.25'				-31.25																				
TYPE III 4 @18.75'				-75																				
CAT-1 2@6.25'				-12.5																				
PROJECT TOTAL				731.25	425										5	4	2							
SAY				737.5	425																			
ADDITIONAL GUARDRAIL POSTS = 5 EA.																						650		

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