COMPUTED BY: M. FALLAHA DATE: 03/08/2022
CHECKED BY: A. MCMILLAN DATE: 03/08/2022

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-4442	3B-1

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT	BORROW	WASTE
PHASE I					
-L- 297+00.00 TO -L- 313+82.00 (BEGIN BRIDGE)	44,327		5,399		38,928
-L- 316+70.00 (END BRIDGE) TO -L- 332+11.46	2,282		35,185	32,903	
SUBTOTAL	46,609		40,584	32,903	38,928
PHASE II					
-L- 297+00.00 TO -L- 313+82.00 (BEGIN BRIDGE)	332		8,058	7,726	
-L- 316+70.00 (END BRIDGE) TO -L- 332+11.46	182		9,750	9,568	
SUBTOTAL	514		17,807	17,293	
PHASE III					
-L- 297+00.00 TO -L- 313+82.00 (BEGIN BRIDGE)	1,115		8,218	7,103	
-L- 316+70.00 (END BRIDGE) TO -L- 332+11.46	5,835		10,560	4,725	
SUBTOTAL	6,950		18,778	11,828	
PROJECT TOTALS:	54,073		77,169	62,024	38,928
MATERIAL FOR SHOULDER CONSTRUCTION			3,021	3,021	
LOSS DUE TO CLEARING & GRUBBING	-1,600			1,600	
USE WASTE IN LIEU OF BORROW				-38,928	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				1,386	
GRAND TOTAL:	52,473		80,190	29,103	
SAY	52,480			29,110	

CONTINGENCY ITEMS PER NCDOT GEOTECHNICAL REPORT - DESIGN AND CONSTRUCTION RECOMMENDATIONS, DATED FEBRUARY 14, 2022:
UNDERCUT EXCAVATION = 900 CY
SELECT GRANULAR MATERIAL = 600 CY
SHALLOW UNDERCUT = 400 CY

NOTE: Earthwork quantities are calculated by the Roadway Design Unit. These quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
-L- RT	297+50.00	301+03.00	355'
-L- RT	307+47.00	313+73.00	626'
-L- LT	312+58.00	313+41.00	83'
-L- LT	316+80.00	328+78.00	1,200'
-L- RT	317+12.00	321+23.00	411'
-L- RT	324+00.00	325+00.00	100'
		TOTAL:	2,775
		SAY:	2,780

WOVEN WIRE FENCE SUMMARY

SURVEY LINE	STATION	STATION	47" FABRIC LF	4" POSTS	5" POSTS
-L- LT	307+20.00	308+37.58	120'	5	7
-L- LT	310+70.00	313+35.00	291'	12	16
-L- LT	316+71.30	325+74.51	911'	45	37
-L- LT	329+12.00	329+80.00	78'	0	10
-L- RT	316+87.97	316+89.47	28'	0	4
		TOTAL:	1,428	62	74
		SAY:	1,430	70	80

ASPHALT PAVEMENT BREAKING SUMMARY

SURVEY LINE	STATION	STATION	AREA (SY)
-L- LT	306+50	313+60	3,081
-L- RT	306+50	313+60	3,061
-L- LT	316+85	327+00	4,264
-L- RT	316+85	327+00	4,256
		TOTAL:	14,662
		SAY:	14,670

SUMMARY OF ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	AREA (SY)
-L- LT	303+00	306+50	1,483
-L- RT	303+00	306+50	1,495
-L- LT	327+00	327+50	211
-L- RT	327+00	327+50	213
TEMPORARY CROSSOVERS:			
-L- LT/RT	297+05	308+95	2,500
-L- LT/RT	321+52	333+05	2,381
		TOTAL:	8,283
		SAY:	8,290

"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			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			SINGLE SLOPE CONCRETE BARRIER	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	GREU, TL-3	CAT-1	B-77	TEMP B-77					EA	G	NG				
-L-	297+00.00	298+82.12	LT	187.5'					VAR																		1,858'		
-L-	297+00.00	298+82.12	RT	187.5'					VAR																		1,703'		
-L-	297+00.00	301+09.66	RT	411.25'			298+00.00	301+00.00	VAR							1											418'		
-L-	306+96.73	313+97.59	RT	706.25'			307+00.00	313+97.59	VAR						1		1										662'		
-L-	312+52.07	313+64.91	LT	112.5			313+64.91	313+00.00	VAR							1	1												
-L-	316+54.91	329+28.30	LT	1275'				316+54.91	VAR						1		1										1,435'		
-L-	316+87.59	325+06.25	RT	816.625'			316+87.59		VAR							1	1										435'		
-L-	330+28.32	332+11.46	LT	187.5'					VAR																		1,548'		
-L-	330+28.32	332+11.46	RT	187.5'					VAR																		1,538'		
-L-	298+82.12	299+10.00	LT/RT			28'																							
-L-	330+01.46	330+28.32	LT/RT			27'																							
-L-	299+10.00	330+01.46																								3,092			
-L-	297+00.00		LT												1														
-L-	313+85.00		LT															1											
-L-	316+50.00		LT															1											
			SUBTOTAL	4071.625'		55'									3	3	4									3,092	9,597		
ANCHOR UNIT DEDUCTIONS																													
	GREU, TL-3	2 @ 50' EA		100'																									
	CAT-1	3 @ 6.25' EA		18.75'																									
	B-77	4 @ 22.875' EA		91.5'																									
			TOTAL	3,861.375'		55'									3	3	4									3,092	9,597		
			SAY	3,875'		62.5'									3	3	4	2								3,092	9,600		

ADDITIONAL GUARDRAIL POSTS = 10 EACH

5/9/06
8/10/2022
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