DocuSign Envelope ID: C8F62B43-014B-4C2E-BEB2-978FA43585BE

COMPUTED BY: __T. Klotz_____ DATE: __02/11/2020____
CHECKED BY: __N. Dean_____ DATE: __02/11/2020____

PROJECT NO.	SHEET NO.
BR-0044	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	UNDERCUT	EMBANK. +%	BORROW	WASTE
-L- 10+75.00	-L- 19+36.29 (Begin Bridge)	5,678		14,729	9,050	
-L- 24+57.71 (End Bridge)	-L- 33+30.00	3,903		16,259	15,178	2,822
SUBTOTALS:		9,581		30,987	24,228	2,822
PROJECT TOTALS:		9,581		30,987	24,228	2,822
LOSS DUE TO CLEARING & GRUBBING		-1,000			1,000	
MATERIAL FOR SHOULDER CONSTRUCTION				552	552	
WASTE IN LIEU OF BORROW						
PROJECT TOTALS:		8,581		31,539	25,780	2,822
EST 5% TO REPLACE TOPSOIL ON BORROW PIT					1,289	
GRAND TOTALS:		**8,581**			**27,069**	2,822
SAY		**8,600**			**27,100**	
PAVEMENT STRUCTURE VOLUME = 1,585 CY						

DDE = 890 CY

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

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

CONTINGENCY ITEMS PER NCDOT GEOTECHNICAL REPORT - DESIGN AND CONSTRUCTION RECOMMENDATIONS, DATED OCTOBER 8, 2019:
UNDERCUT EXCAVATION = 2,300 CY
SELECT GRANULAR MATERIAL = 2,200 CY
GEOTEXTILE FOR SOIL STABILIZATION = 2,500 SY
SHALLOW UNDERCUT = 100 CY
CLASS IV SUBGRADE STABILIZATION = 200 TONS
6" PERFORATED SUBDRAIN PIPE = 300 LF
SEALING ABANDONED WELLS = 1 EA

SHOULDER BERM GUTTER SUMMARY

IN LINEAR FEET

LINE	BEG. STA.	END STA.	LENGTH
-L-	13+59.34	14+57.55 (LT)	98.21
-L-	15+70.88	19+28.71 (RT)	357.83
-L-	18+83.00	18+99.04 (LT)	16.04
-L-	24+65.30	25+11.03 (LT)	45.73
-L-	24+94.96	28+99.92 (RT)	404.96
-L-	29+24.39	30+15.47 (LT)	91.08
		TOTAL:	**1,013.85**
		SAY:	**1,020**

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

LINE	STATION	STATION	LOCATION	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	10+75.00	19+97.26	CL	2,203.51			
-L-	24+90.66	33+30.00	CL	1,938.80			
		TOTAL		**4,142.31**			
		SAY:		**4,150**			

SUMMARY OF GUARDRAIL

"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.
NG = NON-GATING IMPACT ATTENUATOR TYPE 350
G = 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		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	Type III	B-77	GREU, TL-3	GREU, TL-2	CAT-1	AT-1	Type III SC	B-77 SC	TEMP GREU, TL-3	G	NG			
-L-	13+00.78	15+16.96	RT	212.50				15+16.96	10	4							2											
-L-	13+51.83	15+80.87	LT	275.00	50		13+51.83		10	4							1			1								
-L-	15+63.34	19+52.29	RT	437.50	50			19+52.29	4	4	298.67		6			1				1								
-L-	16+12.10	19+20.29	LT	312.50			16+12.10		4	4	232.94			4.38		1	1											
-L-	24+41.72	30+66.28	LT	637.50			24+41.72		4	4	301.34			6		1	1											
-L-	24+73.72	33+10.00	RT	837.50				33+10.00	4	4	298.32		6			1	1											
-L-	12+93.64	14+95.12	RT																								225.9	
-L-	13+44.70	15+69.97	LT																								227.4	
-L-	18+37.02	19+65.27	LT																								128.3	
-L-	18+88.22	20+00.04	RT																								113.4	
-L-	24+89.25	29+93.28	RT																								504.0	
-L-	25+23.10	30+57.29	RT																								534.2	
-L-	16+04.00		RT																				1					TMP Phase 1- Temp Anchor Unit
-L-	27+96.00		RT																				1					TMP Phase 1- Temp Anchor Unit
			SUBTOTAL	**2,712.5**	**100**											**4**	**6**			**2**			**2**				**1,733.2**	
	ANCHOR UNIT DEDUCTIONS																											
	GREU, TL-3	6 @ 50.00' EACH		-300.00																								
	B-77	4 @ 22.875' EACH		-91.50																								
	AT-1	2 @ 6.25' EACH		-12.50																								
	ADDITIONAL GUARDRAIL POSTS = 5 EACH																											
			TOTAL	**2,308.50**	**100**											**4**	**6**			**2**			**2**				**1,733.2**	
			SAY	**2,312.5**	**100**											**4**	**6**			**2**			**2**				**1,740**	