

COMPUTED BY: <u>   KTB   </u>	DATE: <u>  1-15-18  </u>
CHECKED BY: <u>   JCL   </u>	DATE: <u>  1-15-18  </u>

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. <i>14SP.20441.1</i>	SHEET NO. <i>3B-1</i>
--	--------------------------

## SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	ROCK	EMBT + %	BORROW	WASTE
SUMMARY NO.1					
-L- STA. 11+00 TO STA. 12+75.12 (BEGIN BRIDGE)	83	15	182	99	
-DET- STA. 10+50 TO STA. 11+50	3		22	19	
SUBTOTAL SUMMARY NO.1	86	15	204	118	
SUMMARY NO.2					
-L- STA. 13+92.86 (END BRIDGE) TO STA. 16+05	99	45	55		4.4
-Y- STA. 10+00 (END BRIDGE) TO STA. 10+50	13		1		12
SUBTOTAL SUMMARY NO.2	112	45	56		56
SUMMARY NO.3					
-DET- REMOVAL STA. 10+50 to 11+50	22				22
SUBTOTAL SUMMARY NO.3	22				22
PROJECT SUBTOTAL					
WASTE IN LIEU OF BORROW	220	60	260	118	78
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				2	-78
<b>GRAND TOTAL</b>					
14SP.20441.1 SAY	220		260	42	
14SP.20441.2 SAY	345			50	
14SP.20441.1 AND 14SP.20441.2 SAY	565			65	
				115	

CONTINGENCY ITEMS:

INCIDENTAL STONE = 25 TONS

UNDERCUT EXCAVATION = 25 CY

SELECT GRANULAR MATERIAL = 25 CY

CLASS IV SUBGRADE STABILIZATION = 25 TONS

GEOTEXTILE FOR SOIL STABILIZATION = 25 SY

## PAVEMENT REMOVAL

IN SQUARE YARDS					
LINE	LOCATION	ASPHALT REMOVAL	ASPHALT BREAK-UP	CONCRETE REMOVAL	CONCRETE REMOVAL
-L-	12+67 TO 12+90 (CL)	38.00			
-L-	13+74 TO 13+78 (CL)	32.00			
-DET-	10+50 TO 11+50 (CL)	152.39			
-L-	11+50 TO 12+69 (CL)	41.38			
-L-	13+89 TO -Y- 10+40 (CL)	5.47			
-L-	14+90 TO 16+30 (CL)	33.40			
<b>TOTAL</b>		<b>302.64</b>			
	14SP.20441.1 SAY	305			
	14SP.20441.2 SAY	335			
	<b>14SP.20441.1 AND 14SP.20441.2 GRAND TOTAL</b>	<b>640</b>			

Approximate quantities only. Unclassified excavation, borrow excavation, clearing and grubbing, fine grading and removal of existing pavement will be paid for at the contract lump sum price for "grading".

"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		TEMPORARY		WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			SINGLE FACED CONCRETE BARRIER RAIL	REMOVE AND RESET GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMARKS									
				STRAIGHT	SHOP CURVED	STRAIGHT	SHOP CURVED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GREU TL-3	GREU TL-2	TEMP. GREU TL-2	TYPE III	B-77 SHOP CURVED	TYPE III SHOP CURVED	B-77	AT-1	EA					G	NG							
-L-	12+27.52	12+83.35	LT	62.5'						12+83.35	2.5'	5.5'		25'		0.5'																							
-L-	13+98.52	14+58.73	LT	62.5'						13+98.52	2.5'	5.5'		25'		0.5'																							
-L-	11+97.00	12+64.74	RT	25.0'	13.75'					11+97.00	7.5'	10.5'		18.75'		0.5'																							
-L-	12+39	14+14	RT			162.5'	12.5'			12+78																													
-L-	12+39	14+14																																					
					SUBTOTAL	150.0'	13.75'	162.5'	12.5'													3	2	2															
					LESS DEDUCTIONS FOR ANCHORS																																		
					GREU TL-2 3 @ 25' =	-75'																																	
					TYPE III 2 @ 18.75' =	-37.5'																																	
					TYPE III (SHOP CURVE) 1 @ 13.75' =		-13.75'																																
					TEMPORARY GREU TL-2 2 @ 25' =			-50'																															
					PROJECT TOTALS	37.5'		112.5'	12.5'																														
					14SP.20441.1 SAY	50.0'		112.5'	12.5'																														
					14SP.20441.2 SAY	0.00'	12.50'	150'	37.5'																														
					14SP.20441.1 AND 14SP.20441.2 SAY	50.0'	12.50'	262.5'	50'																														
					14SP.20441.1 AND 14SP.20441.2 SAY	50.0'	12.50'	262.5'	50'																														
					14SP.20441.2 ADDITIONAL GUARDRAIL POSTS=5 EA.																																		
					14SP.20441.1 ADDITIONAL GUARDRAIL POSTS=5 EA.																																		

NOTE: ALL PERMANENT GUARDRAIL AND END UNITS TO BE POWDER COATED GALVANIZED STEEL.

## 2'-6" CURB & GUTTER

LINE	STATION	STATION	LOCATION LTR/CL	FT
-L-	11+41.00	12+55.30	RT	114.30'
-Y- & -L-	-Y- 10+50.00	-L- 16+30	RT	247.35'
-Y-	10+27.00	10+45.20	RT	17.42'
			TOTAL	379.07'
			SAY	380.00'