12/06/07

COMPUTED BY: JMB DATE: 5/26/16
CHECKED BY: SMK DATE: 7/13/16

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-5332	3B-1

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
–L– 10+50.00	–L– 12+38.88 (BR)	44	180	148	
SUBTOTAL		44	180	148	
–L– 12+96.13 (BR)	–L– 15+00.00	54	254	200	
SUBTOTAL		54	254	200	
PROJECT TOTALS:		98	434	336	
EST. 5% TO REPLACE SOIL IN BORROW PIT				17	
GRAND TOTALS:		98	434	353	
SAY:		110		400	

EST UNDERCUT EXCAVATION = 700 CY CONTINGENCY (FROM GEOTECH RECS. DATED 4–27–16)
EST SELECT GRANULAR MATERIAL = 700 CY CONTINGENCY (FROM GEOTECH RECS. DATED 4–27–16)
EST SHALLOW UNDERCUT = 100 CY CONTINGENCY (FROM GEOTECH RECS. DATED 4–27–16)

EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
–L–	10+90.00	12+48.61	CL	387.71
–L–	12+85.24	14+45.00	CL	390.52
		TOTAL:		778.24
		SAY:		780

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
–L– LT.	12+18.25	12+28.00	9.75′
–L– RT.	12+18.25	12+28.00	9.75′
		TOTAL:	19.5′
		SAY:	20′

"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 FACED GUARDRAIL	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	TYPE III	EA	G	NG				
–L–	11+57.63	12+38.88	LT	81.25				BRIDGE	4′–5″	7′–5″		50.00		1.00	1		1							GUARDRAIL CALCULATED USING SUBREGIONAL TIER GUIDELINES
–L–	12+96.13	13+77.38	LT	81.25			BRIDGE		4′–5″	7′–5″	50.00		1.00		1		1							GUARDRAIL CALCULATED USING SUBREGIONAL TIER GUIDELINES
–L–	11+57.63	12+38.88	RT	81.25			BRIDGE		4′–5″	7′–5″	50.00		1.00		1		1							GUARDRAIL CALCULATED USING SUBREGIONAL TIER GUIDELINES
–L–	12+96.13	13+77.38	RT	81.25				BRIDGE	4′–5″	7′–5″		50.00		1.00	1		1							GUARDRAIL CALCULATED USING SUBREGIONAL TIER GUIDELINES
			SUBTOTALS	325.00																				
			ANCHOR DEDUCTION	275.00																				
			TOTAL	50.00											4		4							
			SAY	75.00											4		4							

ANCHOR DEDUCTION
GREU, TL–3: 4 @ 50′ = 200′
TYPE III: 4 @ 18.75′ = 75′
GRAND TOTAL = 275′
ADDITIONAL GUARDRAIL POSTS = 5

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