5/26/20

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

"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	XI MOD	XI	GREU TL-3	M-350	GRAU TYPE III	CAT-1	VI MOD	BIC	AT-1	EA	G	NG				
-L-	16+65.00	19+05.00	RT	240'			17+40.00	18+35.00	7'	10'	50'	50'	1'	1'			2											208'		
-L-	20+21.25	21+15.00	RT	93.75'			21+15.00		12.50'	15.50'	50'		1'				1		1											
-L-	20+21.25	21+15.00	LT	93.75'				21+15.00	5'	8'		75'		1.5'			1		1											
-L-	23+35.00	25+50.00	RT	218.75'				23+35.00	12.50'	15.50'		50'		1'			1		1											
-L-	23+35.00	25+45.00	LT	210'			24+50.00		5'	8'	191.25'		3.825'				1		1											
			SUBTOTAL:	856.25													6		4									208'		
		(-) LESS ANCHOR DEDUCTIONS:																												
		(6) GREU TL-3 @ 50.0' EA.		(300')																										
		(4) GRAU TYPE III @ 18.75' EA.		(75')																										
		TOTAL:		(375')																										
		PROJECT TOTALS:		487.50'													6		4									208'		ADDITIONAL GUARDRAIL POST = 5 EA

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	UNDERCUT EXCAV.	EMBANK. +%	BORROW	WASTE
-L- 17+25.00	-L- 21+15.00	2,196		695		1,501
-L- 23+35.00	-L- 27+30.00	40		4,020	3,980	
	SUBTOTAL:	2,236		4,715	3,980	1,501
-GWY- 10+11.00	-GWY- 11+75.00	3		511	508	
	SUBTOTAL:	3		511	508	
	SHEET TOTAL:	2,239		5,226	4,488	1,501
	LOSS DUE TO CLEARING AND GRUBBING:	-200			200	
	MATERIAL FOR SHOULDER CONSTRUCTION:			172	172	
	EARTH WASTE IN LIEU OF BORROW:				-1,501	-1,501
	PROJECT TOTAL:	2,039		5,398	3,359	
	EST. 5% TO REPLACE TOP SOIL:				168	
	GRAND TOTALS:	2,039			3,527	
	SAY:	2,040			3,530	

UNDERCUT EXCAVATION (CONTINGENCY) = 350 CY
NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGNER. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

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

2'-6" CURB AND GUTTER

SURVEY LINE	STATION	STATION	LOCATION LT/ RT/ CL	LENGTH (LF)
-L-	23+47.00	25+57.89	RT	214.81
			TOTAL:	215
			SAY:	220

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/ RT/ CL	YD^2
-L-	19+25.00	21+27.50	CL	527.80
-L-	23+20.90	25+80.00	CL	673.84
			TOTAL:	1201.64
			SAY:	1210

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/ RT/ CL	LF
-L-	17+80.00	18+35.00	RT	55.0
			TOTAL:	55.0
			SAY:	60

HB-0035
3B-1

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROCKINGHAM COUNTY

PLANS PREPARED BY:
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