

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 SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			REMARKS						
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU, TL-3	TYPE III									NO.		PERMITTED G	NG				
-L-	20+09.00	23+02.75	RT	293.75'			23+02.75		4' 11"	6'	50'	54'	1'	1' 11"	1	1																
-L-	21+59.00	23+02.75	LT	143.75'				23+02.75	4' 11"	6'	54'	50'	1' 11"	1'	1	1																
-L-	24+40.25	25+84.00	RT	143.75'				24+40.25	4' 11"	6'	54'	50'	1' 11"	1'	1	1																
-L-	24+40.25	27+34.00	LT	293.75'			24+40.25		4' 11"	6'	50'	54'	1'	1' 11"	1	1																
SUBTOTAL				875.00'																												
LESS ANCHOR DEDUCTIONS																																
GREU, TL-3 4 x 50.00'				=	-200.00'																											
TYPE III 4 x 18.75'				=	-75.00'																											
TOTAL				600.00'			ADDITIONAL POSTS: 5								4	4																

### SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD'
-L-	22+50.00	23+43.43	CL	229.31
-L-	24+29.05	24+90.00	CL	149.47
TOTAL:				378.79
SAY:				400

### SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	EMBT +%	BORROW	WASTE
-L- 18+50.00 TO 23+02.75 (BEGIN BRIDGE)	6	1343	1337	
-L- 24+40.25 (END BRIDGE) TO 28+00.00	57	556	499	
-L_DET- 21+56.00 TO 22+00.00	16			16
-Y_DET- 10+13.31 TO 10+99.00	7			7
SUBTOTAL	86	1899	1836	23
WASTE IN LIEU OF BORROW			-23	-23
PROJECT TOTAL	86	1899	1813	
EST. 5% TO REPLACE TOPSOIL ON BORROW PIT			91	
GRAND TOTAL	86	1899	1904	
SAY	100		2000	

### SUMMARY OF SHOULDER BERM GUTTER

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LENGTH
-L-	24+51.13	26+83.00	LT	231.87'
-L-	24+51.13	24+75.00	RT	23.87'
TOTAL:				255.74'
SAY:				270'

EST. SELECT GRANULAR MATERIAL = 300 YD'  
 UNDERCUT EXCAVATION = 300 YD'

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Asphalt Pavement will be paid for at the contract Lump Sum price for "Grading".

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.