5/28/99

COMPUTED BY: CHL DATE: 4/5/17
CHECKED BY: WSH DATE: 4/5/17

PROJECT REFERENCE NO.	SHEET NO.
B-5236	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

"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	TYPE III			XIII	CAT-1	VI MOD	BIC	AT-1	EA	G	NG				
-L-	13+98.15	15+04.40 (BRIDGE)	RT	106.25			15+00.00 (FILL)		5	10	37.5		.75		1	1													
-L-	13+98.15	15+04.40 (BRIDGE)	LT	106.25				15+00.00 (FILL)	5	10		37.5		.75	1	1													
-L-	16+24.40 (BRIDGE)	19+05.65	RT	281.25				18+00.00 (FILL)	5	10		212.5		2	1	1													
-L-	16+24.40 (BRIDGE)	19+05.65	LT	281.25			18+00.00 (FILL)		5	10	212.5		2		1	1													
TOTAL				775.00											4	4													
DEDUCTIONS FOR ANCHORS:																													
4 TYPE III'S AT 18.75' EA.=				75'																									
4 TYPE GREU, TL-3'S @ 50' EA.=				200'																									
DEDUCTIONS TOTAL=				275'																									
TOTAL STEEL BEAM GUARDRAIL =				500.00'																									
SAY =				550.00'											4	4													
ADDITIONAL GUARDRAIL POSTS =				5 EA																									

★ BREAKING OF EXISTING ASPHALT PAVEMENT SUMMARY

IN SQUARE YARDS

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
LANES				
-L-	12+18.94	14+54.40	CL	523.24
-L-	16+74.40	19+60.22	CL	635.16
PS				
-L-	12+18.94	14+54.40	LT	130.81
-L-	12+18.94	14+54.40	RT	130.81
-L-	16+74.40	19+60.22	LT	158.79
-L-	16+74.40	19+60.22	RT	158.79
			TOTAL:	1,737.60
			SAY:	1,750

★ REMOVAL OF EXISTING ASPHALT PAVEMENT SUMMARY

IN SQUARE YARDS

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
LANES				
-L-	11+75.00	12+18.94	CL	97.64
-L-	14+54.40	15+15.08	CL	134.84
-L-	16+05.83	16+74.40	CL	152.38
-L-	19+60.22	19+80.00	CL	43.96
PS				
-L-	11+75.00	12+18.94	LT	24.41
-L-	11+75.00	12+18.94	RT	24.41
-L-	14+54.40	15+15.08	LT	33.71
-L-	14+54.40	15+15.08	RT	33.71
-L-	16+05.83	16+74.40	LT	38.09
-L-	16+05.83	16+74.40	RT	38.09
-L-	19+60.22	19+80.00	LT	10.99
-L-	19+60.22	19+80.00	RT	10.99
			TOTAL:	643.23
			SAY:	680

SHOULDER BERM GUTTER SUMMARY

IN LINEAR FEET

SURVEY LINE	STATION	STATION	LENGTH (FT)
-L- (LT)	14+80.40	14+93.23	12.8
-L- (RT)	14+80.40	14+93.23	12.8
-L- (LT)	16+35.57	16+48.50	12.9
-L- (RT)	16+35.57	16+73.50	37.9
		TOTAL:	76.5
		SAY:	81

★Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing, Breaking of Existing Ashpalt Pavement and Removal of Existing Asphalt Pavement will be paid for at the contract lump sum price for "Grading". (See Project Special Provision)

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LINE	STATION	STATION	UNCL. EXCAV. ★	EMBANK. + %	BORROW	WASTE
-L-	10+50.00	15+04.40 (BRIDGE)	46	1,238	1,192	
		SUBTOTAL 1:	46	1,238	1,192	
-L-	16+24.40 (BRIDGE)	21+00.00		3,161	3,161	
		SUBTOTAL 2:		3,161	3,161	
		TOTAL	46	4,399	4,353	
		PROJECT TOTALS:	46	4,399	4,353	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					218	
		GRAND TOTAL:	46		4,570	
		SAY:	100		4,600	

Contingencies Per:
Geotechnical Unit's Letter January 5, 2016
Undercut Excavation = 1200 C.Y.
Select Granular Material = 1200 C.Y.
Geotextile for Soil Stabilization = 2700 SY
Shallow Undercut = 500 C.Y.
Class IV Subgrade Stabilization = 950 Tons
6" Perforated Subdrain Pipe = 500 LF

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.