COMPUTED BY: EAR DATE: 3/31/17
CHECKED BY: JWJ DATE: 4/6/17

PROJECT REFERENCE NO.	SHEET NO.
B-5347	3B-1

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					REMOVE 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-2						NO.	PERMITTED G	PERMITTED NG				
-L-	STA. 13+60.00	STA. 14+85.00	LT.	125			STA. 14+43.29		3	6	25	25	0.5	0.5			2												
-L-	STA. 13+40.00	STA. 14+77.50	RT.	137.5			STA. 13+58.55		3	6	25	25	0.5	0.5			2												
			SUB-TOTAL	262.5																									
		DEDUCTION	FOR ANCHOR UNITS																										
		GREU, TL-2	4 @ 25.0 =	-100																									
			PROJECT TOTAL	162.5													4												
	ADDITIONAL GUARDRAIL POST = 5 EA.		SAY	187.5																									
		TEMPORARY GUARDRAIL																											
-DET-	STA. 10+56.00	STA. 13+81.00	LT.	325			STA. 13+00.00		3	5	25	25	0.5	0.5			2												USE EXTRA LONG GR POSTS
-DET-	STA. 10+94.00	STA. 13+56.50	RT.	262.5			STA. 11+69.00		3	5	25	25	0.5	0.5			2												USE EXTRA LONG GR POSTS
			SUB-TOTAL	587.5																									
		DEDUCTION	FOR ANCHOR UNITS																										
		GREU, TL-2	4 @ 25.0 =	-100																									
			PROJECT TOTAL	487.5													4												
	ADDITIONAL GUARDRAIL POST = 5 EA.		SAY	500.0																									

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	UNDERCUT EXCAV.	EMBANK. +%	BORROW	WASTE
PHASE I						
DETOUR CONSTRUCTION						
-L- STA. 12+16.24	-L- STA. 16+44.03	10		3594	3584	
SUBTOTALS:		10		3594	3584	
PHASE II						
-L- CONSTRUCTION						
-L- STA. 12+56.50	-L- STA. 15+50.00	60	300	830	770	300
SUBTOTALS:		60	300	830	770	300
PHASE III						
REMOVE DETOUR						
-L- STA. 12+16.24	-L- STA. 16+44.03	3205		17		3187
SUBTOTALS:		3205		17		3187
TOTAL:		3275	300	4441	4354	3487
ADDITIONAL UNDERCUT			350	420	420	350
PROJECT TOTALS:		3275	650	4861	4774	3837
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT.					239	
GRAND TOTAL		3275	650	4861	5013	3837
SAY		3300	650		5200	

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.

Note: Approximate quantities only. Unclassified 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-	12+75	14+00	LT & RT	265.46
-L-	14+35	14+75	LT & RT	83.11
-DET-	10+36	10+79	LT & RT	23.93
-DET-	10+79	14+26	LT & RT	478.74
-DET-	14+26	14+76	LT & RT	29.16
			TOTAL:	880.41
			SAY:	890

6/16/99
8/21/2017
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User: eroque