

COMPUTED BY: T. CAREY DATE: 06-24-13
 CHECKED BY: B. SMITH DATE: 07-01-13

PROJECT REFERENCE NO. R-2915D SHEET NO. 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

SUMMARY OF GUARDRAIL

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			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMARKS							
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE 350 TL-3	CAT-1	TYPE 350 TL-2										PERMITTED						
																					NO. G NG												
-L- /-Y27-	474+18.75	17+60.04	LT /RT	243.75'	37.5'		475+50.00	474+25.00	8'	11'	50'		1'															191'					
-Y27- /-L-	17+38.15	484+75.00	LT /LT	875.00'	62.5'		483+50.00	18+00.00	8'	11'	50'	50'	1'	1'														241'					
-Y27C-	12+18.50	10+90.00	LT	150.00'	37.5'		11+65.00 (CULV.)		6'	9'	50'	50'	1'	1'														104'					
-L-	501+25.00	507+81.25	RT	656.25'			502+50.00	507+75.00	8'	11'	50'		1'															514'					
-L- /-Y28-	503+93.75	16+15.00	LT /RT	868.75'	62.5'		17+00.00	504+00.00	8'	11'																		1,074'		TIE TO EXISTING GUARDRAIL ON -Y28-			
-L-	513+78.30	515+78.30	LT	232.00'			514+50.00	515+00.00	5'	8'	25'	25'	0.5'	0.5'																ON CALVIN GOODMAN RD.			
-L-	520+25.00	522+56.25	RT	231.25'			521+50.00	522+50.00	8'	11'	50'		1'															151'					
-L-	532+75.00	545+06.25	RT	1,231.25'			534+00.00	545+00.00	8'	11'	50'		1'															1,202'					
-L-	535+43.75	546+25.00	LT	1,081.25'			545+00.00	535+50.00	8'	11'	50'		1'															1,089'					
-L-	561+75.00	566+06.25	RT	431.25'			563+00.00	566+00.00	8'	11'	50'		1'															474'					
-L-	561+68.75	569+25.00	LT	756.25'			568+00.00	561+75.00	8'	11'	50'		1'															840'					
-L-	577+73.75	579+05.00	LT	131.25'			577+80.00	577+80.00	8'	11'	50'		1'																				
-L-	584+43.75	594+75.00	LT	931.25'	125.0'		593+50.00	584+50.00	8'	11'	50'		1'																966'				
-L-	585+75.00	594+56.25	RT	881.25'			587+00.00	594+50.00	8'	11'	50'		1'															752'					
-L- /-Y30-	605+75.00	11+40.75	RT /RT	1,962.50'	75.0'		607+00.00	625+00.00	8'	11'	50'	50'	1'	1'														2,036'					
-L-	606+93.75	630+75.00	LT	2,381.25'			629+50.00	607+00.00	8'	11'	50'		1'															2,350'					
-L-	627+25.00	628+80.00	RT	155.00'			628+50.00	628+73.75	8'	11'	50'		1'															154'					
-L-	635+68.75	654+25.00	LT	1,856.25'			653+00.00	635+75.00	8'	11'	50'		1'															1,790'					
-L-	640+25.00	642+56.25	RT	231.25'			641+50.00	642+50.00	8'	11'	50'		1'															202'					
-L- /-Y31-	647+25.00	11+24.00	RT /RT	187.50'	62.5'		648+50.00	648+50.00	8'	11'	50'	50'	1'	1'																			
-Y31- /-L-	11+65.00	652+56.25	LT /RT	368.75'	37.5'		650+00.00	652+50.00	8'	11'																		442'		TIE TO EXISTING GUARDRAIL ON -Y31-			
-L- /-Y32-	659+25.00	28+50.00	RT /RT	1,000.00'	150.0'		660+50.00	28+50.00	8' /14'	11' /16'	50'	50'	1'	1'														566'					
-L- /-Y32-	658+93.75	15+46.70	LT /RT	1,081.25'	150.0'		16+00.00	658+93.75	8' /14'	11' /16'																		1,253'					
-Y32- /-L-	16+50.00	668+76.25	LT /LT	493.75'	150.0'		667+50.00	16+50.00	14' /8'	16' /11'	50'		1'																				
				SUBTOTAL:	18,418.25'	950.0'																25	18	2					16,391'				
				LESS ANCHOR DEDUCTIONS																													
				GRAU 350 TL-3	25 @ 50' =																								-1,250'				
				GRAU 350 TL-2	2 @ 25' =																								-50'				
				CAT-1	18 @ 6.25' =																								-112.50'				
				TOTAL DEDUCTIONS:																									-1,412.50'				
				TOTAL GUARDRAIL:	17,005.75'																												
				SAY:	17,012.50'	950.0'																	25	18	2					16,400'			
				ADDITIONAL GUARDRAIL POSTS = 10																													
				TEMPORARY GUARDRAIL																													
-L-	464+14 +/-	465+64 +/-	RT (SEE TMP PLANS)	150.00'			464+48 +/-	464+64 +/-	3'	6'																					TEMPORARY GUARDRAIL (SEE TMP PLANS)		
-Y32-	22+10 +/-	23+46 +/-	LT (SEE TMP PLANS)	87.5'	50.0'		22+81 +/-	22+61 +/-	3'	6'																					TEMPORARY GUARDRAIL (SEE TMP PLANS)		
				SUBTOTAL:	237.5'	50.0'																	4										
				LESS ANCHOR DEDUCTIONS																													
				GRAU 350 TL-3 (TEMP)	4 @ 50' =																									-200'			
				TOTAL DEDUCTIONS:																										-200'			
				TOTAL TEMPORARY GUARDRAIL:	37.5'																												
				SAY:	37.5'	50.0'																		4									

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