6/16/99

COMPUTED BY: W.E.J DATE: 06-12-2013
CHECKED BY: C.J.T. DATE: 02-03-2017

PROJECT REFERENCE NO.	SHEET NO.
U-3109A	3B-2

"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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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		CONCRETE MEDIAN TRANSITION BARRIER (EA)	MEDIAN HAZARD PROTECTION (LF)	SINGLE FACED CONCRETE BARRIER (LF)	REMOVE EXISTING GUARDRAIL (LF)	REMARKS
				STRAIGHT	SHOP CURVED	TEMPORARY STRAIGHT	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TEMP GRAU 350	GRAU 350	M-350	XIII	CAT-1	TYPE III	B-77	TES	G	NG					
-RPC SPUR-	17+51.37	-NBL- 25+30.60	LT	181.25			-NBL- 25+16.28		14							1				1									
-RPD SPUR-	19+00.50	-SBL-25+68.35	RT	75.00					14										1		1								
-NBL-	24+83.50	25+55.74	RT	81.25			25+55.74		9.5											1				1					
-SBL-	21+11.50	22+38.94	LT	143.75			22+38.94		4							1			1										
-SBL-	24+80.38	25+44.40	LT	68.75			25+44.40		11												1								
-NBL-	27+51.00	-RPB_SPUR-12+35.74	LT	137.50				27+59.86	11.5/14										1	1									
-NBL-	27+75.67	29+07.24	RT	143.75			27+75.66		9.5		117.8									1									
-SBL-	27+86.69	29+01.21	LT	118.75				27+86.71	11		101.45										1			1					
-SBL-	28+11.49	-RPA_SPUR- 14+61.53	RT	156.25				28+11.49	11.5/14							1					1								
-RPB-	17+00.00	19+00.00	RT	206.25			18+00.00		14							1			1										
-L-	63+99.70	-Y7A- 12+56.24	RT	931.25			64+99.70		11.5/13							1			1										
-L-	69+45.95	71+49.00	LT	206.25			70+49.00	70+46.00	11.5							1			1										
-Y7A-	13+90.00 LT	-L-79+55.00 RT	LT/RT	981.25			12+90.00	52+60.88	13/11.5							1			1										
-L-	77+44.57	80+99.00	LT	356.25			78+44.50		11.5							1			1										
-L-	85+49.70	87+54.95	RT	206.25			86+49.70		11.5							1			1										
-L-	84+94.75	87+00.00	LT	206.25			86+00.00		10							1			1										
-L-	92+49.67	96+99.12	RT	456.25			93+49.70		10							1			1										
-L-	94+10.70	99+00.00	LT	493.75			98+00.00		10							1			1										
-L-	124+99.91	127+04.75	RT	206.25			125+99.90		10							1			1										
-L-	125+89.94	128+99.50	LT	306.25			127+99.60		10							1			1										
-L-	131+94.21	142+57.55	LT	1062.50			132+94.25	142+57.55	10										1		1								
-L-	132+00.00	142+23.04	RT	1018.75			133+00.00	142+23.00	10							1					1								
-L-	140+85.12	142+36.37	RT	156.25			142+36.37		10		62.25					1					1								
-L-	141+09.50	142+45.90	LT	143.75			142+45.90		10		64.75						1				1								
-L-	58+14.48	58+46.17	RT	25.00																		2							
-Y10-	19+21.83	19+27.44	LT	25.00																		2							
-L-	147+30.36	163+06.05	RT	1537.50			148+30.36	162+05.06	10							1					1								
-L-	147+40.11	163+48.45	LT	1656.25			162+48.55	147+40.11	10							1					1								
-L-	147+33.81	148+70.08	RT	131.25			147+33.81		10		58.6						1				1								
-L-	147+36.89	148+87.40	LT	156.25			147+36.89		10		68.2					1					1								
-L-	177+49.71	182+05.95	RT	456.25			178+49.65	181+04.95	10							1			1										
-L-	178+43.45	184+49.69	LT	606.25			183+49.75	179+44.45	10							1			1										
-L-	187+85.38	188+21.13	LT	25.00															1			2							
-L-	49+66.74 RT	-Y6-16+59.03 LT	RT	918.75			-Y6-53+64.09	-Y6-53+64.09	8							1			1										
-Y6-	10+65.00	16+53.67	LT	618.75			15+56.67		8							1			1										
-Y7A-	28+10.99	30+89.68	RT	281.25												1			1										
-Y10-	18+33.09	21+70.59	RT	337.50			19+33.09	20+33.08	8							2													
-Y10-	18+33.09	21+33.09	LT	300.00			20+71.10	19+33.09	8							2													
-EY43-	49+43.00	50+04.00	CL																						1				
-EY43-	50+04.00	50+92.00	CL																							108			**SEE MEDIAN HAZARD PROTECTION DETAIL 2C-8**
-Y16-	20+95.40	23+20.71	RT													2					2						88.00		
-SBL-	24+23.77	25+78.62	RT																									169.00	
-SBL-	28+01.77	29+87.64	RT																									194.00	
-SBL-	27+77.34	29+75.52	LT																									200.00	
-Y26-	18+50.00	24+25.00	RT			575.00									2														**TEMPORARY GUARDRAIL, SEE TMP PLANS**
			SUBTOTAL	**15118.75**		**575.00**									**2**	**30**	**2**		**21**	**4**	**14**	**6**		**2**	**1**	**108**	**88.00**	**563.00**	
		LESS ANCHOR UNIT DEDUCTIONS																											
		GRAU-350	**30 @ 50'**	**1500.00**																									
		M-350	**2 @ 37.5'**	**75.00**																									
		CAT-1	**21 @ 6.25'**	**131.25**																									
		TYPE III	**4 @ 18.75'**	**75.00**																									
		B-77	**14 @ 18.75'**	**262.50**																									
		TEMP GRAU-350	**2 @ 50'**			**100.00**																							
			TOTAL	**13075.00**		**475.00**									**2**	**30**	**2**	**0**	**21**	**4**	**14**	**6**	**0**	**2**	**1**	**108**	**88**	**563**	
		SAY		**13100.00**		**487.50**		**ADDITIONAL GUARDRAIL POSTS = 50**																					