COMPUTED BY: TEH DATE: 1/20/2015
CHECKED BY: DWG DATE: 1/23/2015

PROJECT REFERENCE NO.	SHEET NO.
R-2514B	3B-3

"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 SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS									IMPACT ATTENUATOR TYPE 350			SINGLE FACED CONCRETE BARRIERS			REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GRAU 350	M-350	CAT-1	B-77	AT-1	TYPE III	GRAU 350 TL-2			NO.	PERMITTED G	PERMITTED NG				
-L-	98+00.00	101+12.50	RT	312.50'			100+84 (STREAM)		12'	15'	50'		1'		1		1													
-L-	99+09.00	105+96.50	LT	687.50'			99+65 (STREAM)		12'	15'	50'		1'		1		1													
-L-	107+61.00	110+73.50	RT	312.50'			110+61 (STREAM)		12'	15'	50'		1'		1		1													
-L-	115+21.00	115+87.00 (BARRIER)	MED RT	64.75'				115+87.00 (BARRIER)										1						1	X	X	41.0'			
-L-	115+21.00	115+87.00 (BARRIER)	MED LT	43.75'			115+87.00 (BARRIER)											1									41.0'			
-L-	116+28.00 (BARRIER)	116+94.00	MED RT	64.75'			116+28.00 (BARRIER)											1						1	X	X				
-L-	116+28.00 (BARRIER)	116+94.00	MED LT	43.75'				116+28.00 (BARRIER)										1												
-L-	144+08.75	147+15.00 (BRIDGE)	RT	306.25'				147+15.00 (BRIDGE)	12'	15'	50'		1'		1			1												
-L-	145+03.50	147+15.00 (BRIDGE)	MED RT	212.50'				147+15.00 (BRIDGE)	4'	7'	193.75'		14.42'			1		1												
-L-	146+40.00	147+15.00 (BRIDGE)	LT	75.00'			147+15.00 (BRIDGE)		10'	13'							1	1												
-L-	148+75.00 (BRIDGE)	157+25.00	RT	850.00'			148+75.00 (BRIDGE)	157+25.00	12'	15'							1	1												
-L-	148+75.00 (BRIDGE)	150+87.50	MED LT	212.50'				148+75.00 (BRIDGE)	4'	7'	193.75'		14.42'			1		1												
-L-	148+75.00 (BRIDGE)	160+68.75	LT	1193.75'			159+18.75	148+75.00 (BRIDGE)	12'	15'	50'		1'		1			1												
-L-	164+44.68	167+75.93 (BRIDGE)	RT	306.25'				167+75.93 (BRIDGE)	12'	15'	50'		1'		1			1												
-L-	165+56.43	167+75.93 (BRIDGE)	MED RT	212.50'				167+75.93 (BRIDGE)	4'	7'	193.75'		14.42'			1		1												
-L-	167+00.93	167+75.93 (BRIDGE)	LT	75.00'			167+75.93 (BRIDGE)		10'	13'							1	1												
-L-	179+34.33 (BRIDGE)	180+09.33	RT	75.00'			179+34.33 (BRIDGE)		10'	13'							1	1												
-L-	179+34.33 (BRIDGE)	181+46.83	MED LT	212.50'				179+34.33 (BRIDGE)	4'	7'	193.75'		14.42'			1		1												
-L-	179+34.33 (BRIDGE)	182+40.58	LT	306.25'				179+34.33 (BRIDGE)	12'	15'	50'		1'		1			1												
-L-	207+12.50	211+00.00	LT	387.50'			209+75.00	207+12.50					1'		1		1													
-L-	215+72.00	216+38.00 (BARRIER)	MED RT	64.75'				216+38.00 (BARRIER)										1						1	X	X	54.0'			
-L-	215+72.00	216+38.00 (BARRIER)	MED LT	43.75'			216+38.00 (BARRIER)											1									54.0'			
-L-	216+92.00 (BARRIER)	217+58.00	MED RT	64.75'			216+92.00 (BARRIER)											1						1	X	X				
-L-	216+92.00 (BARRIER)	217+58.00	MED LT	43.75'				216+92.00 (BARRIER)										1												
-L-	218+65.75	223+00.25	LT	434.50'			222+50.25	218+59.50	12'	15'	50'		1'		1		1													
-Y2-	17+40.27	21+52.77 (BRIDGE)	LT	412.50'			21+52.77 (BRIDGE)	18+40.27	3'	11'		393.75'		6'	1			1												
-Y2-	17+88.77	21+57.52 (BRIDGE)	RT	368.75'			18+88.77	21+57.52 (BRIDGE)	3'	11'	350'		6'		1			1												
-Y2-	23+27.20 (BRIDGE)	25+45.95	LT	218.75'			24.45.95	23+27.20 (BRIDGE)	3'	11'	200'		4'		1			1												
-Y2-	23+35.81 (BRIDGE)	-Y2C- 10+59.16	RT	381.25'	50'		23+35.81 (BRIDGE)	-Y2- 27+25.00	3'	11'								1	1											
-Y2-	30+17.50	31+80.00	RT	162.50'			30+42.50	31+55.00	6'	9'	0'	0'									2									
-Y2A-	33+22.86	34+97.86	LT	175.00'			34+72.86	33+47.86	3'	6'	0'	0'									2									
-Y2A-	32+99.31	34+86.81	RT	187.50'			33+24.31	34+61.81	3'	6'	0'	0'									2									
-Y3-	-Y3- 13+80.44	16+92.94 (BRIDGE)	LT	312.50'			16+92.94 (BRIDGE)	14+80.44	4'	11'		50'		1'	1					1										
-Y3-	-Y3A- 10+58.84	17+18.11 (BRIDGE)	RT	318.75'	50'		-Y3- 13+90.00	17+18.11 (BRIDGE)	4'	11'									1	1										
-Y3-	19+18.84 (BRIDGE)	-Y3C- 10+51.08	LT	443.75'	50'		-Y3- 23+55.00	19+18.84 (BRIDGE)	4'	11'									1	1										
-Y3-	19+46.34 (BRIDGE)	-Y3B- 10+41.79	RT	418.75'	50'		19+46.34 (BRIDGE)	-Y3- 23+55.00	4'	11'									1	1										
-Y3A-	23+14.52	24+39.52	LT	125.00'			24+14.52	23+39.52	3'	6'	0'	0'									2									
			TOTAL	10,131.00'	200'										13	4	9	24	4	4	8			4	X	X	190'			
			ANCHOR DEDUCTIONS																											
			12 TYPE 350 @ 50'	-600.00'																										
			8 TYPE 350 TL-2 @ 25'	-200.00'																										
			1 TYPE 350 TL-3 @ 50'	-50.00'																										
			24 TYPE B-77 @ 18.75'	-450.00'																										
			4 TYPE III @ 18.75'	-75.00'																										
			4 TYPE AT-1 @ 6.25'	-25.00'																										
			9 TYPE CAT-1 @ 6.25'	-56.25'																										
			4 TYPE M-350 @ 37.5'	-150.00'																										
			4 IMPACT ATTENUATOR @ 21'	-84.00'																										
			R-2514B TOTAL	8,440.75'	200'										13	4	9	24	4	4	8			4	X	X	200'			
			R-2514B SAY	8,500'	200'										13	4	9	24	4	4	8			4	X	X	200'			
			R-2514C SAY	7,425'	0'										6	4	6	8	0	0	0			0			0			
			COMBINED R-2514B/R-2514C TOTAL	15,925'	200'										19	8	15	32	4	4	8			4	X	X	200'			
			R-2514B ADDITIONAL GUARDRAIL POSTS = 30 EA.																											
			R-2514C ADDITIONAL GUARDRAIL POSTS = 30 EA.																											
			COMBINED R-2514B/R-2514C ADDITIONAL GUARDRAIL POSTS = 60 EA.																											

TEMPORARY GUARDRAIL (SEE TRAFFIC CONTROL PLANS)

LINE	BEG STA	END STA	LOCATION	LENGTH STRAIGHT	LENGTH SHOP CURVE	TEMP GRAU-350
			TOTAL	0		0
			R-2514B SAY	0		0
			R-2514C SAY	1962.5		2
			COMBINED R-2514B /R-2514C SAY	1962.5		2

WOVEN WIRE FENCE, 47" FABRIC

STATION TO STATION	LOC. LT/RT	47" FABRIC LF	4" POSTS	5" POSTS	STATION TO STATION	LOC. LT/RT	47" FABRIC LF	4" POSTS	5" POSTS
-L- 27+41.00 TO 37+32.00	RT	999.48	64	13	-L- 223+12.00 TO 223+04.00	RT	977.48	58	22
-L- 37+92.00 TO 46+08.00	RT	865.69	50	22	-L- 23+65.00 TO 99+24.00	LT	7,672.77	487	112
-L- 46+68.00 TO -Y1- 13+71.00	RT	1,438.85	89	25	-L- 99+30.00 TO 116+13.00	LT	1,731.11	112	22
-Y1- 13+17.00 TO -L- 100+90.00	RT	4,363.61	285	49	-L- 116+43.00 TO 147+35.00	LT	3,240.14	214	32
-L- 101+07.00 TO 115+66.00	RT	1,477.17	94	22	-L- 148+55.00 TO 168+00.00	LT	2,180.73	144	21
-L- 115+97.00 TO 147+35.00	RT	3,302.44	209	49	-L- 178+90.00 TO 206+86.00	LT	2,961.82	189	41
-L- 148+55.00 TO 168+00.00	LT	2,209.27	146	21	-L- 206+93.00 TO 217+16.00	LT	1,042.83	64	19
-L- 178+90.00 TO 215+70.00	RT	3,708.95	242	41	-L- 217+57.00 TO 232+01.00	LT	1,804.66	116	23
-L- 216+12.00 TO 223+04.00	RT	796.95	52	9					
					R-2514B TOTAL		40,773.95	2,615	543
					R-2514B SAY		40,800	2,620	550
					R-2514C SAY		44,000	2,800	640
					COMBINED R2514B/R2514C TOTAL		84,800	5,420	1,190

WILDLIFE FENCE

STATION TO STATION	LOC. LT/RT	120" FABRIC LF
R-2514B TOTAL		0
R-2514B SAY		0
R-2514C SAY		9000
COMBINED R-2514B/R-2514C TOTAL		9000
GATES		EACH
WILDLIFE GATE -L- STA. 82+70.00 LT.		1
WILDLIFE GATE -L- STA. 104+43.00 LT.		1

9/16/99
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