COMPUTED BY: DWG DATE: 3/17/14
CHECKED BY: TEH DATE: 1/23/15

PROJECT REFERENCE NO.	SHEET NO.
R-2514C	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

SUMMARY OF QUANTITIES
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	GRAU 350	M-350	CAT-1	B-77			TERMINAL END SECTION			NO.	PERMITTED G	PERMITTED NG			
-L-	87+32.50	101+45.00	LT	1412.50			101+45.00 (BRIDGE)	87+32.50	12	15							1	1											
-L-	90+45.00	101+45.00	RT	1100.00			91+70.00	101+45.00 (BRIDGE)	12	15		50		1	1			1											
-L-	99+57.50	101+45.00	MED RT	187.50				101+45.00 (BRIDGE)	4	7	168.75		12.75			1		1											
-L-	99+82.50	101+45.00	MED LT	162.50			101+45.00 (BRIDGE)		4	7		37.5		4		1		1											
-L-	102+65.00	104+27.50	MED RT	162.50			102+65.00 (BRIDGE)		4	7		37.5		4		1		1											
-L-	102+65.00	104+52.50	MED LT	187.50				102+65.00 (BRIDGE)	4	7	168.75		12.75			1		1											
-L-	102+65.00	116+77.50	LT	1412.50			115+52.50	102+65.00 (BRIDGE)	12	15		50		1	1			1											
-L-	102+65.00	118+02.50	RT	1537.50			102+65.00 (BRIDGE)	118+02.50	12	15							1	1											
-L-	255+25.00	264+50.00	RT	925.00			256+50.00	264+50.00	12	15					1		1												
-L-	258+00.00	263+50.00	LT	550.00			262+25.00	258+00.00	12	15					1		1												
-L-	268+12.50	270+18.75	RT	206.25			270+00.00		12	15					1		1												GROUND MOUNTED SIGN
-L-	294+62.50	296+68.75	RT	206.25			296+50.00		12	15					1		1												GROUND MOUNTED SIGN
			SUB-TOTAL	8050.00											6	4	6	8											
	LESS DEDUCTIONS FOR ANCHORS																												
			GRAU-350 6 @ 50'	-300																									
			M-350 4 @ 37.5'	-150																									
			CAT-1 6 @ 6.25'	-37.50																									
			TYPE B-77 8 @ 18.75'	-150																									
			PROJECT TOTAL	7412.50																									
			SAY	7425.00																									
															6	4	6	8											
	ADDITIONAL GUARDRAIL POSTS = 30 EA.																												

TEMPORARY GUARDRAIL (SEE TRAFFIC CONTROL PLANS)

LINE	BEG STA	END STA	LOCATION	LENGTH STRAIGHT	LENGTH SHOP CURVE	TEMP GRAU-350	
-L-	91+50	112+00	LT	2050		2	
			TOTAL	2050		2	
	LESS DEDUCTIONS GRAU-350 - 2 @ 50 = 100						
			PROJECT TOTAL	1950		2	
			SAY	1962.50		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- 13+30.00 TO 28+04.00	LT	1459.83	89	28	-L- 200+64.00 TO 202+11.00	LT	147.00	8	4
					-L- 202+55.00 TO 204+28.00	LT	173.00	10	4
-L- 31+20.00 TO 35+90.00	LT	470.62	30	7	-L- 204+74.00 TO 206+19.00	LT	145.00	8	4
-L- 37+65.00 TO 41+10.00	LT	345.59	21	7	-L- 206+85.00 TO 210+18.00	LT	333.33	20	7
-L- 41+70.00 TO 43+50.00	LT	180.00	11	4	-L- 210+71.00 TO 216+48.00	LT	577.26	37	7
-L- 44+10.00 TO 45+90.00	LT	180.00	11	4	-L- 217+49.00 TO 224+88.00	LT	739.00	47	10
-L- 50+60.00 TO 52+21.00	LT	161.00	9	4	-L- 225+48.00 TO 235+09.00	LT	1014.45	65	13
-L- 52+53.00 TO 54+43.00	LT	190.00	11	4	-L- 235+80.00 TO 291+55.00	LT	5708.04	373	64
-L- 58+55.00 TO 60+41.00	LT	187.64	10	7	-L- 11+16.00 TO 15+47.00	RT	693.17	42	13
-L- 61+01.00 TO 64+25.00	LT	324.71	19	7	-L- 16+47.00 TO 82+50.00	RT	6813.70	443	79
-L- 64+73.00 TO 67+50.00	LT	277.50	18	4	-L- 123+90.00 TO 153+35.00	RT	2899.64	190	31
-L- 69+40.00 TO 73+47.00	LT	407.00	25	7	-L- 153+95.00 TO 167+00.00	RT	1323.90	83	22
-L- 74+07.00 TO 81+90.00	LT	783.00	51	10	-L- 169+45.00 TO 170+67.00	RT	122.00	7	4
-L- 82+50.00 TO 82+70.00	LT	20.00		4	-L- 171+22.00 TO 182+40.00	RT	1178.00	71	25
-L- 125+67.00 TO 131+17.00	LT	550.00	34	10	-L- 183+00 TO 191+45.00	RT	846.04	53	13
					-L- 192+05.00 TO 232+12.00	RT	4180.84	265	61
-L- 131+77.00 TO 134+35.00	LT	258.23	16	4	-L- 233+17.00 TO 290+88.00	RT	5880.28	383	67
-L- 134+95.00 TO 138+27.00	LT	350.53	21	7					
-L- 138+87.00 TO 141+44.00	LT	273.36	16	7					
-L- 141+96.00 TO 145+16.00	LT	317.20	19	7					
-L- 145+68.00 TO 148+90.00	LT	322.00	19	7					
-L- 149+27.00 TO 151+10.00	LT	183.00	11	4					
-L- 154+11.00 TO 155+46.00	LT	135.00	8	4					
-L- 156+91.00 TO 158+32.00	LT	141.00	8	4					
-L- 159+57.00 TO 161+80.00	LT	223.00	14	4					
-L- 162+29.00 TO 163+76.00	LT	147.00	8	4					
-L- 164+25.00 TO 167+07.00	LT	282.00	18	4					
-L- 167+67.00 TO 168+74.00	LT	107.00	6	4					
-L- 171+01.00 TO 175+10.00	LT	409.00	25	7					
-L- 176+44.00 TO 182+75.00	LT	649.49	39	13					
-L- 183+37.00 TO 184+96.00	LT	159.00	9	4					
-L- 189+41.00 TO 197+05.00	LT	764.88	49	10					
-L- 197+52.00 TO 199+18.00	LT	166.00	10	4					
TOTALS		10424.58	635	205	TOTALS		32774.65	2105	428
					PROJECT TOTALS		43199.23	2740	633
					SAY		44000	2800	640

WILDLIFE FENCE

STATION TO STATION	LOC. LT/RT	120" FABRIC LF
-L- 82+70.00 TO 101+75.00	LT	1910.00
-L- 102+35.00 TO 123+57.00	LT	2120.00
-L- 82+50.00 TO 101+75.00	RT	1990.00
-L- 102+35.00 TO 123+90.00	RT	2200.00
FENCE UNDERNEATH BRIDGE		
-L- 101+75.00		245.00
-L- 102+35.00		245.00
TOTALS		8710.00
SAY		9000

GATES	EACH
WILDLIFE GATE -L- STA. 82+70.00 LT.	1
WILDLIFE GATE -L- STA. 104+43.00 LT.	1

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