RD223236

COMPUTED BY:	C.POWELL	DATE:	12-20-16
CHECKED BY:	T. HUFFMAN	DATE:	12-20-16

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
GUARDRAIL SUMMARY

PROJECT REFERENCE NO.	SHEET NO.
R-2707C	3B-4

"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 BEGIN

G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

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			SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GRAU 350 TL-3	TYPE-III	CAT-1	Type B-77	TES				No.	PERMITTED G	PERMITTED NG				
-Y2-	23+06	27+93	RT	487.5			24+06		8	11	50		1		1	1													BRIDGE / FILL WARRANT
-Y2-	24+01	28+08	LT	412.5				25+00	8	11		50		1	1	1													BRIDGE / FILL WARRANT
-Y2-	30+01	31+64	RT	162.5				30+01	8	11		50		1	1	1													BRIDGE / FILL WARRANT
-Y2-	30+28	33+02	LT	275			30+28		8	11	50		1		1	1													BRIDGE / FILL WARRANT
-Y3-	16+94	19+75	LT	287.5				19+75	8	11		50		1	1			1											BRIDGE / FILL WARRANT
-Y3-	17+91	19+79	RT	187.5			19+79		8	11	50		1		1			1											BRIDGE / FILL WARRANT
-Y3-	21+61	26+53	LT	500			25+53		8	11	50		1		1			1											BRIDGE / FILL WARRANT
-Y3-	21+65	22+53	RT	87.5				21+65	8	11		50		1	1			1											BRIDGE / FILL WARRANT
-Y4REV-	20+04	22+72	RT	275			22+72		6	9	50		1		1			1											BRIDGE / FILL WARRANT
-Y4REV-	21+75	22+93	LT	125				22+93	6	9		50		1	1			1											BRIDGE / FILL WARRANT
-Y4REV-	25+28	28+36	RT	312.5				27+30	6	9		50		1	1			1											BRIDGE / FILL WARRANT
-Y4REV-	25+50	29+30	LT	387.5			28+30		6	9	50		1		1			1											BRIDGE / FILL WARRANT
-Y5-	20+13	20+12	LT/RT	25															2										ROAD CLOSURE
-Y5-	20+35	20+57	LT	25															2										ROAD CLOSURE
-Y8-	24+10	24+10	LT/RT	25															2										ROAD CLOSURE
-Y8-	24+35	24+59	LT	25															2										ROAD CLOSURE
-Y8REV-	25+50	31+00	LT	550			30+25	26+25	8	11	50	50	1	1	2														FILL WARRANT
-Y8REV-	28+00	33+00	RT	500			28+75	32+25	8	11	50	50	1	1	2														FILL WARRANT
-Y9-	20+82	23+07	RT	225			23+07		7.5	12	50		1		1	1													BRIDGE / FILL WARRANT
-Y9-	25+08	27+33	LT	225			25+08		7.5	12	50		1		1	1													BRIDGE / FILL WARRANT
-Y10-	20+74	20+74	LT/RT	62.5															2										ROAD CLOSURE
-Y10-	24+28	24+28	LT/RT	62.5															2										ROAD CLOSURE
-Y11A-	46+53	46+54	LT/RT	75															2										ROAD CLOSURE
-Y11REV2-	26+02	31+77	RT	200			26+83		8	11	50		1		1			3								379			CONCRETE BARRIER
-Y11REV2-	30+83	31+77	LT	100				31+77	8	11		50		1	1			1									172.2		BRIDGE / FILL WARRANT
-Y11REV2-	32+95	35+04	LT	212.5			32+95		8	11	50		1		1			1									157.9		BRIDGE / FILL WARRANT
-Y11REV2-	32+95	33+88	RT	100				32+95	8	11		50		1	1			1											BRIDGE / FILL WARRANT
-Y11REV2-	54+97	62+51	LT	762.5			61+50	56+00	8	11	50	50	1	1	2														FILL WARRANT
-Y11REV2-	54+97	64+60	RT	962.5			56+00	63+50	8	11	50	50	1	1	2														FILL WARRANT
-Y14-	16+53	20+50	LT	400			19+50	17+50	8	11	50	50	1	1	2														FILL WARRANT
-Y14-	32+29	32+90	LT	62.5															2										ROAD CLOSURE
-Y14-	36+19	39+36	RT	325			36+69	39+36	2	10	50		1		1		1												FUTURE BRIDGE MSE WALL WARRANT
-Y14-	36+04	39+89	LT	387.5			39+39	36+04	2	10	50		1		1		1												FUTURE BRIDGE MSE WALL WARRANT
-Y16REV-	12+00	15+50	RT	350			12+50	15+00	8	11	50	50	1	1	2														FILL WARRANT
-Y16REV-	13+00	16+00	LT	300			15+50	12+50	8	11	50	50	1	1	2														FILL WARRANT
SHEET TOTALS				9,463			55,869	50,975	195	289	950	750	19	15	34	6	2	14	16							379	330	0	
LESS ANCHOR DEDUCTIONS																													
GRAU-350 TL-3		34	@ 50.0	-1,700																									
	CAT-1	2	@ 6.25	-12.5																									
	TES	16	Each																										
	TYPE B-77	14	@ 18.75	-262.5																									
	TYPE III	6	@18.75	-112.5																									
GRAND TOTALS				7,375.0	0										34	6	2	14	16							379	330.1		
SAY				7,512.5	0										34	6	2	14	16							379	330.1		
ADDITIONAL GUARDRAIL POSTS = 10																													

TEMPORARY GUARDRAIL SUMMARY

-Y4- Ex.	22+08	24+78		275											2														
-Y9-DET	13+50	17+50		400			14+25	16+75	8	11	50	50	1	1	2														
-Y9-DET	15+95	19+00		312.5			16+70	18+25	8	11	50	50	1	1	2														
SHEET TOTALS				988											6														
LESS ANCHOR DEDUCTIONS																													
GRAU-350 TL-3		6	@ 50.0	-300																									
GRAND TOTALS				687.5											6														
SAY				700.0											6														