COMPUTED BY: IY DATE: 1/7/2014
CHECKED BY: KDA DATE: 1/8/2015

PROJECT NO.	SHEET NO.
B-5136	3B-2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
GUARDRAIL SUMMARY

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

TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

LINE	BEG. STA.	END STA.	LOC.	LENGTH (FT.) STRAIGHT	LENGTH (FT.) SHOP CURVED	LENGTH (FT.) DOUBLE FACED	WARRANT POINT APPR. END	WARRANT POINT TRAIL. END	"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH APPR. END	FLARE LENGTH TRAIL. END	W (FT.) APPR. END	W (FT.) TRAIL. END	ANCHORS (EA.) GRAU 350	ANCHORS (EA.) TYPE III	ANCHORS (EA.) CAT-1	ANCHORS (EA.) AT-1	IMP. ATTEN. TYPE 350 EA	IMP. ATTEN. TYPE 350 G	IMP. ATTEN. TYPE 350 NG	REMOVE & RESET EXIST G.R. (FT.)	REMOVE EXIST G.R.(FT)	REMARKS
-L-	14+52.89	20+77.89	LT	625.00				20+77.89	12	14		325		6.5		1	1						480	
-L-	16+07.00	17+07.00	RT	100.00			16+50		9	14	50		1		1		1						134	SHORTENED DUE TO PARKING LOT
-L-	17+77.73	20+15.23	RT	237.50			20+15.23		12	14	218.75		4.38		1	1							307	
-L-	22+70.98	27+70.98	RT	500.00				27+70.98	9	14		87.5		3.5		1	1						533	USE 25:1 FLARE RATE
-L-	23+33.64	-EY4- 10+77.88	LT	375.00	50		27+12		9	14	87.5		3.5			1		1					468	USE 25:1 FLARE RATE
-L-	28+50.00	29+75.00	RT	125.00			28+50		9	14	50		1		1		1							SHORTENED DUE TO EXIST. DRIVE
-L-	27+96.37	28+71.42	LT																				77	
-L-	18+79.79	21+04.08	MED																				443	REMOVE BOTH SIDES OF MEDIAN GUARDRAIL
-L-	22+64.69	24+27.63	MED																				320	REMOVE BOTH SIDES OF MEDIAN GUARDRAIL
-EY4-	10+68.70	10+90.47	CL																				30	
		SUB TOTALS		1962.50	50										3	4	4	1					**2792**	**SUB TOTALS**
	LESS DEDUCTIONS FOR ANCHORS																							
	3 GRAU 350 @ 50'			-150.00																				
	4 CAT-1 @ 6.25'			-25.00																				
	1 AT-1 @ 6.25'				-6.25																			
	4 TPYE III @ 18.75'			-75.00																				
		PROJ. TOTAL		**1,712.50**	**43.75**										**3**	**4**	**4**	**1**					**2792**	**PROJECT TOTAL**
		SAY		**1,725.00**	**50**																			
	ADDITIONAL GUARDRAIL POST = 10 EA																							

TEMPORARY GUARDRAIL SUMMARY

LINE	BEG. STA.	END STA.	LOC.	LENGTH (FT.) STRAIGHT	LENGTH (FT.) SHOP CURVED	LENGTH (FT.) DOUBLE FACED	WARRANT POINT APPR. END	WARRANT POINT TRAIL. END	"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH APPR. END	FLARE LENGTH TRAIL. END		ANCHORS (EA.) W-BEAM	ANCHORS (EA.) GRAU 350	ANCHORS (EA.) TYPE III	ANCHORS (EA.) CAT-1	ANCHORS (EA.) AT-1	IMP. ATTEN. TYPE 350 EA	IMP. ATTEN. TYPE 350 G	IMP. ATTEN. TYPE 350 NG	REMOVE & RESET EXIST G.R. (FT.)	REMOVE EXIST G.R.	REMARKS
-DET-	13+00.00	16+51.44	LT	368.75					2- 8	4- 10						1	1							TEMPORARY ANCHOR UNITS
-DET-	14+98.44	16+35.94	RT	137.50					2- 4.5	4- 8						1	1							TEMPORARY ANCHOR UNITS
-L-	17+70.00	18+70.00	RT																			100		RESET EXIST. GUARDRAIL & ANCHOR UNIT, PHASE 2
-L-	19+90.00	20+40.00	LT												1									TEMP. ANCHOR UNIT SEE TMP PHASE 1
-L-	23+75.00	24+25.00	LT												1									TEMP. ANCHOR UNIT SEE TMP PHASE 1
-L2-	19+70.00	20+70.00	MED. (LT)																1		X	95		TIE TO EXIST. GUARDRAIL IN PHASE 2
-L2-	19+70.00	20+40.00	MED. (RT)																			60		TIE TO TEMP. IMPACT ATTEN. PHASE 2
-L2-	23+65.00	24+52.00	LT	87.50					2- 3	5												50		RESET GRAU-350 FROM PHASE 1
-L-	24+00.00	25+00.00	RT														1					100		TEMPORARY ANCHOR UNIT PHASE 2
-L-	24+00.00		RT														1							TEMP. ANCHOR UNIT SEE TMP PHASE 3
-DET-	18+02.33		RT											1										TIE PCB TO PROP. TEMP BRIDGE- SEE TMP
-DET-	18+17.85		LT											1										TIE PCB TO PROP. TEMP BRIDGE- SEE TMP
		SUB TOTALS		593.75										2	2	2	4		1		X	405		**SUB TOTALS**
	LESS DEDUCTIONS FOR ANCHORS																							
	2 TYPE III @ 18.75'			-37.50																				
	2 CAT-1 @ 6.25'			-25.00																				
		PROJ. TOTAL		531.25										**2**	**2**	**2**	**4**		**1**		**X**	**405**		**PROJECT TOTAL**
		SAY		**537.50**																				