6/16/99

COMPUTED BY: T.L.C. DATE: 02-04-2019
CHECKED BY: B.C.S. DATE: 02-25-2019

PROJECT REFERENCE NO.	SHEET NO.
R-5020B	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

"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

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH (LF)			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350				8' EXTRA LENGTH GUARDRAIL POSTS (EA)	REMOVE EXISTING GUARDRAIL (LF)	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU TL-3	TES	CAT-1	WTR					NO.	PERMITTED G	PERMITTED NG				
-TIE-	11+92.00	17+50.00	RT	558.00'				16+50.00	14'	14'							1	1											USE A WTR SECTION AND THRIE BEAM GRAIL TO ATTACH TO BRIDGE
-TIE-	11+92.00	17+50.00	LT	558.00'			-L- 174+65.00		VAR.	VAR.	50'		1'					1									8	550'	USE 8' POSTS (EXTRA LENGTH) FOR -TIE- STA. 13+75 TO 14+25 USE A WTR SECTION AND THRIE BEAM GRAIL TO ATTACH TO BRIDGE
-L-	174+50.00	175+65.00	LT	125.00'			174+65.00		14'	16'	50'		1'		1													139'	
-RPA-	10+37.55	16+48.85	RT	618.75'				17+50.00	14'	14'					1		1											515'	
-L-	247+93.75	252+35.00	LT	443.75'			251+35.00	248+00.00	14'	16'	50'		1'		1		1												
-L-	247+42.17	250+73.42	RT	331.25'			247+92.17	250+67.17	14'	18'	50'		1'		1		1										44		USE 8' POSTS (EXTRA LENGTH)
			SUBTOTAL	2634.75'																									
		LESS ANCHOR DEDUCTIONS:																											
		GREU TL-3	4 @ 50.00' =	-200.00'																									
		CAT-1	4 @ 6.25' =	-25.00'																									
		WTR	2 @ 6.25' =	-12.50'																									
		ANCHOR DEDUCTION TOTAL:		-237.50'																									
			PROJECT TOTAL	2397.25'											4		4	2									52	1,870'	
			SAY	2400.00'											4		4	2									55	1,870'	
		ADDITIONAL GUARDRAIL POST =		5 EA																									

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LENGTH OR AREA (FT OR SF)	ASPHALT REMOVAL (SY)	CONCRETE REMOVAL (SY)
-L-	176+71.00	177+79.00	LT	881.00		97.89
-L-	176+64.00	182+02.00	LT	2,904.00	322.70	
-L-	178+29.00	180+55.00	LT	1,387.00		154.11
-L-	180+67.00	181+62.00	LT	94.97		10.55
-L-	182+64.00	185+98.00	LT	1,393.00		154.78
-L-	187+00.00	188+44.00	RT	551.00	61.20	
-L-	189+13.00	192+97.00	RT	4,874.00	541.60	
-L-	193+27.00	197+74.00	RT	6,596.00	732.90	
-L-	193+50.00	200+08.00	CL	5,047.00	560.80	
-L-	198+04.00	201+02.00	RT	4,149.00	461.00	
-L-	201+82.00	205+04.00	RT	3,781.00	420.10	
-L-	202+62.00	205+50.00	CL	4,117.00	457.40	
-L-	205+50.00	210+50.00	CL	27,925.00	3,102.80	
-L-	210+50.00	227+49.00	CL	29,802.00	3,311.30	
-L-	210+50.00	223+00.00	RT	11,532.00	1,281.30	
-L-	230+30.00	242+85.00	CL	17,353.00	1,928.10	
-L-	229+74.00	234+94.00	RT	4,762.00	529.10	
-L-	240+76.00	241+54.00	LT	1,410.00		156.67
-L-	244+47.00	248+87.00	LT	3,716.00	412.90	
-L-	245+10.00	245+48.00	LT	442.00		49.11
-L-	245+45.00	254+15.00	CL	15,410.00	1,712.20	
-L-	259+27.00	264+11.00	CL	9,146.00	1,016.20	
-L-	262+33.00	263+40.00	RT	440.00	48.90	
-L-	264+32.00	265+18.00	CL	4,930.00	547.80	
-L-	272+11.00	272+98.00	CL	4,410.00	490.00	
-L-	273+30.00	276+54.00	CL	3,725.00	413.90	
-Y17-	14+39.00	14+70.00	CL	2,075.00	230.60	
-Y21-	12+80.00	13+40.00	CL	1,582.00	175.78	
-Y24-	13+05.00	13+63.00	CL	2,398.00	266.44	
-Y32-	10+38.00	10+70.00	CL	1,326.00	147.33	
-RPA-	16+38.00	19+91.00	CL	13,669.00	1,518.78	
-RPB-	12+82.00	13+86.00	CL	8,886.00	987.33	
-RPC-	22+80.00	23+30.00	LT	1,100.00	122.22	
-RPD-	13+10.00	14+84.00	RT	2,172.00	241.33	
RPA Loop	16+38.00	19+91.00	CL	16,382.00	1,820.22	
-L-	228+00.00	237+50.00	RT	10,167.00	1,129.67	
-L-	231+50.00	235+00.00	LT	3,757.00	417.44	
-L-	243+00.00	255+00.00	RT	16,016.00	1,779.56	
-L-	266+00.00	271+40.00	RT	2,975.00	330.56	
-L-	275+00.00	289+75.00	RT	11,269.00	1,252.11	
-L-	262+00.00	264+00.00	LT	677.00	75.22	
-L-	274+78.00	289+75.00	LT	3,369.00	374.33	
				TOTAL:	27,836.44	623.11
				SAY:	27,840.00	630.00

SUMMARY OF CONCRETE VALLEY GUTTER

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	NET LENGTH (FT)
-Y18-	11+40.00	12+49.36	RT	109
-Y18-	11+40.00	12+55.89	LT	118
-Y21-	11+85.00	13+08.61	LT	94
-Y21-	11+85.00	12+99.32	RT	115
-Y22-	11+80.00	12+81.38	LT	102
-Y24-	15+55.00	16+85.00	LT	130
			TOTAL:	668
			SAY:	670

8" X 18" CONCRETE CURB

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	NET LENGTH (FT)
-ROUND1-	10+00.00	13+58.14	LT	268.60
-ROUND2-	10+00.00	13+58.14	LT	268.60
			TOTAL:	537.2
			SAY:	540

2" ROLLED CURB

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	NET LENGTH (FT)
-ROUND1-	10+00.00	13+58.14	CL	358.14
-ROUND2-	10+00.00	13+58.14	CL	358.14
			TOTAL:	716.28
			SAY:	720

8" X 12" CONCRETE CURB

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	NET LENGTH (FT)
-L-	247+50.00	250+71.00	RT	321
			TOTAL:	321
			SAY:	330

9" X 18" CONCRETE CURB

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	NET LENGTH (FT)
-L-	198+84.50	201+14.75	LT	302.50
-L-	215+90.82	226+66.01	LT	801.80
-L-	222+84.54	223+84.07	RT	84.50
-Y28-	16+52.30	17+78.30	LT	49.20
-L-	239+02.00	239+48.20	RT	57.40
-L-	245+44.10	246+34.01	RT	89.88
			TOTAL:	1,385.28
			SAY:	1,390.00

SHOULDER DRAINS

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SHOULDER DRAIN PIPE (FT)	SHOULDER DRAINS (FT)	OUTLET PIPES (FT)
-L-	266+00	271+80	LT	586	586	221
-L-	265+50	271+80	RT	643	643	16
			TOTAL:	1,229	1,229	237
			SAY:	1,300	1,300	300