COMPUTED BY: DSM DATE: 08/27/21
CHECKED BY:TLS DATE: 01/30/24

STATE OF NORTH CAROLINA RAIL DIVISION

 PROJECT REFERENCE NO.
 SHEET NO.

 Y-4807B
 3B-I

R/W SHEET NO.



SUMMARY OF EARTHWORK

N CURIC VARDS

		IN CUBIC YARD	S				
		EXCAVA	TION	EMBANKMENT			
FROM STATION	to station	TOTAL UNCLASSIFIED	UNDERCUT	EMBANKMENT +%	BORROW	WASTE	
DUA 6							
PHAS SUMMARY							
-Y1- 10+33.64 LT	-Y1- 14+37.49 LT	281		25		256	
-Y2- 10+23.03	-Y2- 11+46.82	79		36		43	
TOTAL SUMM	MARY NO. 1	360		61		299	
PHAS	E 2						
SUMMARY							
-L- 16+66.17 LT	_L_ 21+51.24 LT	121		42		79	
-Y1- 10+33.64 RT	-Y1- 14+37.49 RT	16		401	401	16	
TOTAL SUMM	MARY NO 2	137		443	401	95	
TOTAL SUMM	NAKT NO. 2	137		443	401	75	
PHAS	 E 3						
SUMMARY							
L 16 + 66.17 RT	_L_ 20+48.40 RT	11		238	227		
-Y1- 14+93.83	-Y1- 16+42.29			1,625	1,625		
-Y1- 16+53.47	-Y1- 17+36.73	40		148	108		
TOTAL SUMM	MARY NO. 3	51		2,011	1,960		
PHAS							
SUMMARY -Y1- 17+36.73	Y NO. 4 -Y1- 20+10.00	581		52		529	
-11- 17+30.73	-fi- 20+10.00	361		52		529	
TOTAL SUMM	MARY NO. 4	581		52		529	
PHASI	E 5						
SUMMARY	/ NO. 5						
-L- 20+48.40 RT	−L− 21+51.24 RT	10		35	25		
TOTAL SUMM	MARY NO. 5	10		35	25		
SUBTO	DTAL	1,139		2,602	2,386	923	
LOSS DUE TO CLEADING AND CD	HIBBINIC	–175			175		
LOSS DUE TO CLEARING AND GR WASTE IN LIEU OF BORROW	טרווטעט.	-1/3		+	-848	_848	
PROJECT TOTAL		964		2,602	1,713		
ESTIMATE 5% FOR TOPSOIL ON BO	ORROW PITS	707		2,002	86	,,,	
				†	·		
CDAND TOTAL		964		2,602	1,799	75	
GRAND TOTAL				<u> </u>			

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²							
-Y1-	13 + 16	14 + 18	RT	282							
Y1	14 + 94	16+30	LT & RT	1559							
Y1	15 + 49	16 + 39	LT	251							
Y1	16 + 59	17 + 23	LT	123							
-DR2-	11 + 66	12 + 52	LT & RT	270							
	TOTAL:										
	SAY:										

GEOTEXTILE FOR SUBGRADE STABILIZATION: 900 SY
CONTINGENCY UNDERCUT EXCAVATION: 100 CY
CONTINGENCY SELECT GRANULAR MATERIAL: 100 CY
GEOTEXTILE FOR SOIL STABILIZATION: 100 SY
SHALLOW UNDERCUT: 150 CY
SHALLOW UNDERCUT BY STATIONS -Y1- 10+33.00 THRU 12+75.00: 150 CY
TOTAL SHALLOW UNDERCUT: 300 CY
CLASS IV SUBGRADE STABILIZATION: 600 TONS

UNCLASSIFIED EXCAVATION – ACCEPTABLE, BUT NOT TO BE USED IN TOP 3 FT. OF EMBANKMENT OR BACKFILL, -Y1-10+33.00 TO 12+75.00 (75 CY.) PER GEOTECH.

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

NOTE: Earthwork quantities are calculated by the engineer. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

"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

GUARDRAIL SUMMARY

	NG = NC	NON-GATING IMPACT ATTENUATOR TYPE 350																						
SHI \Y480 (E	SURVEY LINE	BEGIN STA.	T) ID 07.1	LOCATION	LENGTH			WARRANT POINT		"N" DIST.	TOTAL	FLARE LENGTH		w		ANCHORS			IMPACT ATTENUATOR CONCRETE REMOVE TYPE 350 BARRIER EXISTING	REMOVE AND	DEMARKS			
			END STA.		STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	DIST. FROM E.O.L.	SHOUL. WIDTH	APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD B77	GRAU M-350	TYPE III CAT-1	VI MOD BIC		(ANCHORED) GUARDRAIL	STOCKPILE EXISTING GUARDRAIL	REMARKS	
	-DR2-	11 + 68.27	11 + 69.00	LT&RT	37.50																			
	-DR2-	12 + 82.49	12 + 84.54	LT&RT	37.50																			
	TOTAL: 75.00																							
Д О Д 	TOTAL GUARDRAIL LENGTH:																							
7 E	SAY:																							