

5/28/99

COMPUTED BY:	JMP	DATE:	7-2021
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PLANS PREPARED BY :
PARSONS
RALEIGH, NORTH CAROLINA, (919) 854-1345
NC LICENSE NO. F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

PROJECT REFERENCE NO.	SHEET NO.
R-5857	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	UNDERCUT	EMBANK. + %	BORROW	WASTE
-L- 29 + 10.00 LT	42 + 00.00 LT	1,616		2,685	1,069	
-Y- 17 + 00.00	23 + 00.00	933		971	38	
-Y2- 10 + 25.00	14 + 12.62	558		888	380	50
SUBTOTALS:		3,107		4,544	1,487	50
-L- 29 + 10.00 RT	42 + 00.00 RT	1,296		5,474	4,178	
-Y1- 11 + 00.00	-Y1- 15 + 00.00	581		518		63
-L_RTL- 10 + 00.00	14 + 12.62	51		140	89	
SUBTOTALS:		1,928		6,132	4,267	63
-L- 42 + 00.00 LT	-L- 54 + 25.00 LT	2,897		3,421	524	
SUBTOTALS:		2,897		3,421	524	
-L- 42 + 00.00 RT	-L- 54 + 25.00 RT	998		1,746	748	
SUBTOTALS:		998		1,746	748	
-L1- 19 + 09.00 LT	-L1- 30 + 00.00 LT	436		3,534	3,098	
-Y4- 14 + 50.00	-Y4- 18 + 03.30	511		350		161
SUBTOTALS:		947		3,884	3,098	161
-L1- 19 + 09.00 RT	-L1- 30 + 00.00 RT	439		5,065	4,626	
-Y5- 11 + 00.00	-Y5- 23 + 00.00	1,219		3,076	1,857	
SUBTOTALS:		1,658		8,141	6,483	
-L1- 30 + 00.00 LT	-L1- 42 + 00.00 LT	2,145		5,186	3,041	
SUBTOTALS:		2,145		5,186	3,041	
-L1- 30 + 00.00 RT	-L1- 42 + 00.00 RT	445		3,511	3,066	
SUBTOTALS:		445		3,511	3,066	
PROJECT TOTALS:		14,125		36,565	22,714	274
EST. SHOULDER MATERIAL				3,263	3,263	
LOSS DUE TO CLEARING AND GRUBBING		-150			150	
UNSUITABLE MATERIAL					200	200
WASTE IN LIEU OF BORROW					-224	-224
PROJECT TOTAL		13,975		39,828	26,103	250
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					1,305	
GRAND TOTALS:		13,975		39,828	27,408	250
SAY:		14,000			28,000	

EST. UNDERCUT CONTINGENCY = 2,250 CY
EST. SHALLOW UNDERCUT BY STATIONS = 310 CY
SHALLOW UNDERCUT CONTINGENCY = 500 CY
TOTAL SHALLOW UNDERCUT = 810 CY
CLASS IV SUBGRADE STABILIZATION BY STATIONS = 675 TONS
CLASS IV SUBGRADE STABILIZATION CONTINGENCY = 1,000 TONS
SELECT GRANULAR MATERIAL CONTINGENCY = 2,000 CY
EST. DDE = 750 CY

UNCLASSIFIED EXCAVATION - ACCEPTABLE BUT NOT TO BE IN THE TOP 3' OF EMBANKMENT OR BACKFILL
-Y2- 12 + 25 TO 14 + 15, (50 CY) PER GEOTECH

UNCLASSIFIED EXCAVATION - UNSUITABLE
-Y- 17 + 25 TO 21 + 25
(200 CY) PER GEOTECH

Quantities are approximate only. The Resident Engineer will use methods including but not limited to recross-sectioning, truck measurements, and aerial surveys to compute final quantities which the contractor will be paid.

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

REMOVAL OF EXISTING
ASPHALT PAVEMENT SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD'
-L-	26 + 25	29 + 52	RT (TEMP)	86.93
-Y-	20 + 97	23 + 58	LT	676.03
-Y1-	10 + 67	12 + 64	LT (TEMP)	48.52
-Y1-	15 + 13	16 + 63	LT (TEMP)	164.74
			TOTAL:	976.23
			SAY:	980

GUARDRAIL SUMMARY

W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL. "N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350
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.

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 TL-2			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GREU TL-3	M-350	III	CAT-1	VI MOD	BIC	AT-1	EA	G	NG					
-L-	33 + 20.24	36 + 01.49	LT	281.25			33 + 26.49		12	15	50		1				1			1											
-L1-	25 + 42.88	28 + 24.13	LT	281.25			25 + 49.13		12	15	50		1				1			1											
TOTAL				562.50													2			2											
		DEDUCT FOR ANCHOR UNITS																													
			GREU, TL-3 2 @ 50' =	-100																											
			GRAU CAT-1 2 @ 6.25' =	-12.50																											
SAY				450			8 EA ADDITIONAL GUARDRAIL POSTS										2			2											

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