SUMMARY OF EARTHWORK
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
SUMMARY NO. 1					
-L- STA. 11+50 TO STA. 13+74.81 (BEG. BRIDGE)	81		107	26	
SUBTOTAL SUMMARY NO. 1	81		107	26	
SUMMARY NO. 2					
-L- STA. 14+12.18 (END BRIDGE) TO STA. 15+00.00	8		56	48	
SUBTOTAL SUMMARY NO. 2	8		56	48	
PROJECT SUBTOTAL	89		163	74	
WASTE IN LIEU OF BORROW					
EST. 5% FOR REPLACING TOP SOIL ON BORROW PITS				4	
GRAND TOTAL	89		163	78	
SAY	95			80	

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

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

CONTINGENCY ITEMS:
INCIDENTAL STONE = 50 TONS
UNDERCUT EXCAVATION = 50 CY
SELECT GRANULAR MATERIAL = 50 CY
CLASS IV SUBGRADE STABILIZATION = 50 TONS
GEOTEXTILE FOR SOIL STABILIZATION = 200 SY

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH		TEMPORARY		WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS									TEMP ANCHORS	IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	STRAIGHT	SHOP CURVED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GRAU 350	GRAU 350 TL-2	TYPE III	TYPE III SHOP CURVED	B-77	BIC	AT-1		EA	G	NG				
-L-	13+31.91	13+71.70	RT	6.25	43.25			13+71.70		8	8										1			1								
-L-	13+58.41	13+77.90	LT	6.25	18.75				13+77.90	6	6										1			1								
-L-	14+06.22	14+24.18	RT	6.25	18.75				14+06.22	8	8										1			1								
-L-	14+17.96	14+80.20	LT	37.5	18.75			14+17.96		3.8 - 10.8	0 - 4		25		1				1		1											MOUNT GUARDRAIL TO MOMENT SLAB
-L-	13+04	14+66				125	37.5																									
			SUBTOTAL	56.25	100	125	37.5																									
		LESS DEDUCTIONS FOR ANCHORS																	1		4			3								
		GRAU-350 TL-2 1 @ 25'=		-25																												
		TYPE III (SHOP CURVED) 4 @ 18.75'=			-75																											
		AT-1 3 @ 6.25'=		-18.75																												
		GRAU-350 TL-2 (TEMP.) 2 @ 25'=				-50																										
		PROJECT TOTALS:		12.5	25	75	37.5																									
		ADDITIONAL GUARDRAIL POSTS=5 EA.																														

"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

6/21/00
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