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12/06/07

COMPUTED BY: TSJ	DATE: 04/06/2026
CHECKED BY: AMC	DATE: 04/06/2026

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
BP1-R014	3B-1

EARTHWORK SUMMARY (CY)

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
SUMMARY NO. 1					
–L– STA. 10+40.00 TO STA. 13+96.88 (BEGIN BRIDGE)	23	300	428	405	300
SUBTOTAL SUMMARY NO. 1	23	300	428	405	300
SUMMARY NO. 2					
–L– STA. 14+69.13 (END BRIDGE) TO STA. 18+65.00	6	350	935	929	350
SUBTOTAL SUMMARY NO. 2	6	350	935	929	350
TOTAL	29	650	1,362	1,333	650
ADDITIONAL UNDERCUT		300	390	390	300
PROJECT TOTAL	29	950	1,752	1,723	950
EST. 5% TO REPLACE TOPSOIL ON BORROW PIT				86	
GRAND TOTAL	29	950	1,752	1,810	950
SAY	100	950		1,900	

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.

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

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
–L–	13+86	13+96.88	CL	58
–L–	14+69.13	15+00	CL	100
			TOTAL:	158
			SAY:	175

PAVEMENT BREAKING SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
–L–	15+00	16+25	CL	284
			TOTAL:	284
			SAY:	300

SHOULDER BERM GUTTER SUMMARY (LF)

SURVEY LINE	STATION	STATION	LENGTH
–L– (LT)	13+63	13+97	34
–L– (RT)	13+63	13+97	34
–L– (LT)	14+69	14+83	14
–L– (RT)	14+69	14+83	14
		TOTAL:	96
		SAY:	100

"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
NG = NON-GATING IMPACT ATTENUATOR

GUARDRAIL SUMMARY

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			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	TL–3	TYPE III	EA	G	NG				
–L–	13+04.25	13+96.88	LT	93.75'				13+96.88	4'	7'		50'		1'	1	1							
–L–	11+85.50	13+96.88	RT	162.5'			13+96.88		4'	7'	50'		1'		1	1							USE 8' GUARDRAIL POSTS
–L–	14+69.13	17+25.38	LT	187.5'			14+69.13		4'	7'	50'		1'		1	1							
–L–	14+69.13	15+61.75	RT	93.75'				14+69.13	4'	7'		50'		1'	1	1							
			SUBTOTAL	537.5																			
	LESS ANCHOR DEDUCTIONS																						
	GREU TL–3	4 @ 50'		200'																			
	TYPE III	4 @ 18.75'		75'																			
			TOTAL	262.5'											4	4							
			SAY	262.5'											4	4							

ADDITIONAL GUARDRAIL POSTS = 5 EA

COMPUTED BY: MCE	DATE: 04/21/2025
CHECKED BY: JGD AMC	DATE: 04/21/2025

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
L 13+72	LT	0401		5.1											
		0401	0402		2.3	2.0									
L 13+72	RT	0402		5.1											
		0402	0403		2.0	0.1			20				X		
PROJECT TOTALS									20						

STATION	C.S. PIPE (UNLESS NOTED OTHRWISE) 12"	15" .064	18" .064	24" .064	24"	30" .079	30"	36" .079	36"	42" .109	42"	48" .109	48"	CLASS IV R.C. PIPE (UNLESS OTHERWISE NOTED) 12"	15"	18"	24"	30"	36"	42"	48"
L 13+72																					
															24						
L 13+72																					
PROJECT TOTALS															24						

STATION	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0')	LIN. *FT. A 5.0' THRU 10.0'	LIN. *FT. B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	
L 13+72						1							
L 13+72						1							
PROJECT TOTALS						2							

STATION	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	G.D.I. (N.S. FLAT) FRAME W/2 GRATES STD. 840.29	T.B.D.I. STD. 840.35						MODIFIED CONCRETE FLUME W/CONC. PAVED DITCH	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
L 13+72											1	1										
L 13+72											1	1										
PROJECT TOTALS											2	2										

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

4/7/2026
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