12/06/07

COMPUTED BY: FMM DATE: 10-26-2022
CHECKED BY: DATE:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
BP1-R002	3B-1

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- 10+89.34	13+14.38	50	84	34	
-L- 14+21.63	17+37.57	138	224	86	
TOTAL:		188	308	120	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				6	
GRAND TOTALS:		188	308	126	
SAY:		200		135	

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.

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	12+65.50	13+28.36	CL	170.47
-L-	14+18.11	14+70.50	CL	155.11
			TOTAL:	325.58
			SAY:	330

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
-L-	12+75.00	13+02.53	27.53
		TOTAL:	27.53
		SAY:	30

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

| LINE & STATION / SIZE / THICKNESS OR GAUGE | OFFSET | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | MINIMUM REQUIRED SLOPE | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, PVC, OR PP PIPE) 12" | 15" | 18" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | R.C. PIPE CLASS IV 12" | 15" | 18" | R.C. PIPE CLASS V 12" | 66" | | STRUCTURAL PLATE PIPE 60" | 66" | 72" | | ##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | ##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | ##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | | ##" x ##" C.S. PIPE ARCH CULVERTS, ##" THICK | ##" x ##" C.S. STRUCTUREAL PLATE PIPE ARCH, ## GAUGE | ##" WELDED STEEL PIPE ##" THICK, GRADE ## IN SOIL | ##" WELDED STEEL PIPE ##" THICK, GRADE## NOT IN SOIL | ##" WELDED STEEL PIPE ##" THICK, GRADE B (UNDER RR) | | | | | 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. | QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE A + (1.3 X 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 | | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | OPEN THROAT C.B. STD. 840.14 | CONCRETE BRIDGE APPROACH D.I. STD. 840.13 | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME & GRATE STD. 840.16 | G.D.I. (N.S. SAG) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S. SAG) FRAME WITH 2 GRATE STD. 840.24 | G.D.I. (N.S. FLAT) FRAME WITH GRATE STD. 840.29 | G.D.I. (N.S. FLAT) FRAME WITH 2 GRATE STD. 840.29 | T.B.D.I. STD. 840.35 | T.B.D.I. FOR STEEL GRATES STD. 840.36 | FLOWABLE FILL | CONC. COLLARS CL. "B" C.Y. STD 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | | | | | | | | PIPE REMOVAL LIN.FT. | REMARKS |
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