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11/14/23

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. + %	BORROW	WASTE
12+31.08	19+47.87	255		181	255
20+07.56	27+81.61	452		716	452
SUBTOTALS:		707		897	707
PROJECT TOTALS:		707		897	707
GRAND TOTALS:		707		897	707
SAY:		710		900	710

REMOVAL OF ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
–L–	18+19	21+30	LT	437
			TOTAL:	437
			SAY:	450

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300–5".

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	CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE IR OR HDPE PIPE, TYPE S OR D: 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
SIZE																			
THICKNESS OR GAUGE																			
21+05.00	LT	501		DETERMINE IN FIELD															
24+83.50	LT	503		DETERMINE IN FIELD						12"									X
24+79.00	LT	503	502	DETERMINE IN FIELD															
24+74.60	LT	502																	
TOTALS										12"									

STATION	C.S. PIPE: 12"	15"	18"	24"	36"	42"	48"	R.C. PIPE (CLASS III): 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS IV): 12"	15"	18"	24"	30"	36"	42"	48"
SIZE																						
THICKNESS OR GAUGE	.064	.064	.064	.064	.079	.109	.109															
21+05.00																						
24+83.50																						
24+79.00																						
24+74.60																						
TOTALS																						

STATION	*** R. C. PIPE (CLASS V)	*** R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	*** R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.05 CU. YDS. R.C.P.	ENDWALLS STD. 838.05 CU. YDS. C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. B') 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 CATCH BASIN	DROP INLET	G.D.I. TYPE "B" STD. 840.18, 840.27, OR 840.45	G.D.I. (W'S. SAG) FRAME W/2 GRATES STD. 840.22
SIZE																		
THICKNESS OR GAUGE																		
21+05.00																		
24+83.50								1									1	1
24+79.00																		
24+74.60																		
TOTALS								1									1	1

STATION	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
SIZE				
THICKNESS OR GAUGE				
21+05.00				ADJUST D.I.
24+83.50				
24+79.00	0.4465			
24+74.60				REMOVE
TOTALS	0.4465			

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

HS-2014X

3B

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 038271 ENGINEER JAMES PATTERSON ROLLINGHORST

Digitally signed by James Patterson Rollinghorst

5/23/2025

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 038271 ENGINEER JAMES PATTERSON ROLLINGHORST

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