RD261649

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated 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 INCHES & UNDER)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL
21+92.63	LT	0401		7.0			
21+92.63	LT	0401	0402		4.2	4.1	
21+92.63	CL	0402		7.0			
21+92.63	CL	0402	0403		4.1	3.1	
24+03.30	LT	0404		7.6			
24+03.30	LT	0404	0405		4.8	4.7	
24+03.30	CL	0405		7.6			
24+03.30	CL	0405	0406		4.7	3.2	
24+48.01	LT	0407	0404	7.7	4.94	4.8	
SHEET TOTALS							

STATION	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
21+92.63												
21+92.63												
21+92.63												
21+92.63		16										
24+03.30												
24+03.30												
24+03.30												
24+03.30		20										
24+48.01												
SHEET TOTALS		36										

STATION	C.S. PIPE 12" (.064)	15" (.064)	18" (.064)	24" (.064)	30" (.079)	36" (.079)	42" (.109)	48" (.109)	R.C. PIPE CLASS III 12"	15"	18"	24"	30"	36"	42"	48"
21+92.63																
21+92.63																
21+92.63																
21+92.63																
24+03.30																
24+03.30																
24+03.30																
24+03.30																
24+48.01																
SHEET TOTALS																

STATION	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	48"
21+92.63								
21+92.63		32						
21+92.63								
21+92.63								
24+03.30								
24+03.30		32						
24+03.30								
24+03.30								
24+48.01		44						
SHEET TOTALS		108						

STATION	** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	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'	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 DROP INLET	CATCH BASIN
21+92.63								1								
21+92.63																
21+92.63								1								
21+92.63																
24+03.30								1								
24+03.30																
24+03.30								1								
24+03.30																
24+48.01								1								
SHEET TOTALS								5								

STATION	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME WITH TWO GRATES 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. 840.20	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	TBDI NARR. SLOT FRAME W/ TWO GRATES STD. 840.29				DRAINAGE PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
21+92.63				1							1								
21+92.63																			
21+92.63				1							1								
21+92.63																			
24+03.30				1							1								
24+03.30																			
24+03.30				1							1								
24+03.30																			
24+48.01				1							1								
SHEET TOTALS				5							5								

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.)	(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

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54" & OVER)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL
19+32.29		0410	0408		-1.41	-1.2	
19+39.83		0410	0409		-1.41	-1.2	
19+35.57		0410					
SHEET TOTALS							

STATION	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 54"	60"	66"	72"	78"	84"			CAA PIPE 54"	54"	54"	54" SHOP ELON-GATED	54" SHOP ELON-GATED	60" .105	60"	66"	66"	72"	72"	72"
19+32.29														72						
19+39.83														72						
19+35.57																				
SHEET TOTALS														144						

STATION	STRUCTURAL PLATE PIPE 60" 12	60" 10	60"	66" 12	66" 10	66"	72" 12	72" 10	72"			
19+32.29												
19+39.83												
19+35.57												
SHEET TOTALS												

STATION	REINFORCED ENDWALLS WITH R.C. - C.Y.	WITH C.S. - C.Y.	MASONRY DRAINAGE STRUCTURES CUBIC YARDS	C.B. STD. 840.01 OR 840.02	FRAMES, GRATES & HOOD STANDARD 840.03 TYPE OF GRATE E	F	G		CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN
19+32.29										
19+39.83										
19+35.57		8.3								
SHEET TOTALS		8.3								

STATION									REINF. CONC. FLARED END SECTIONS NO. & SIZE	CORR. STEEL FLARED END SECTIONS NO. & Size	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72		PIPE REMOVAL LIN. FT.	REMARKS
19+32.29															60" CAAP, 0.105" thick
19+39.83															60" CAAP, 0.105" thick
19+35.57															
SHEET TOTALS															

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