11/14/23

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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)

LINE & STATION / SIZE / THICKNESS OR GAUGE	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain 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	DO NOT USE PPP	DO NOT USE PVC	C. S. PIPE 15 (.079)	18 (.079)	24 (.079)	30 (.079)	36 (.079)	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48
L 12+41	28 RT	0401							40																										
L 15+40	4 LT	0403	0404		840.2	838.1																								100					
L 18+40	17 RT	0406		845.0																															
		0406	0405		841.5	830.2			40								X																		
Y4 10+95	52 RT	0407		827.3																															
		0407	0408		824.0	823.8																							72						
Y4 11+49	68 RT	0408		831.1																															
		0408	0410		823.5	823.4																								44					
L 19+20	26 LT	0409		843.4																															
		0409	0411		839.4	838.8																							40						
Y4 11+82	47 RT	0410		829.4																															
		0410	0413		823.4	820.4																								52					
L 19+58	26 LT	0411		842.8																															
		0411	0412		838.8	819.0			60																										
Y4 12+26	43 RT	0413		823.9																															
		0413	0416		820.4	812.8																								72					
L 20+64	10 LT	0414	0420		815.9	815.0																												200	
Y4 13+30	15 LT	0419		828.0																															
		0419	0433		824.8	824.7																							32						
L 21+55	20 RT	0421		837.8																															
		0421	0428		833.8	833.2																							96						
Y4 14+24	14 RT	0424		827.0																															
		0424	0423		823.5	812.0			32								X																		
L 22+10	73 LT	0425	0422		819.2	813.8																										148			
Y4 14+24	14 LT	0426		827.0																															
		0426	0427		823.5	811.6			40								X																		
L 22+55	21 RT	0428		836.4																															
		0428	0429		833.2	831.9																							64						
L 23+20	22 RT	0429		835.9																															
		0429	0432		831.9	831.6																							68						
L 23+91	24 LT	0431	0432		823.7	823.4																													96
L 23+91	23 RT	0432		835.6																															
		0432	0430		823.4	823.0																													44
Y4 13+30	15 RT	0433		828.0																															
		0433	0424		824.7	823.5																							96						
L 24+05	24 RT	0501		835.6																															
		0501	0432		831.5	831.4																								12					
L 24+35	26 RT	0502		835.6																															
		0502	0501		831.6	831.5																								28					
Y1 22+06	49 LT	0507							40																										
Y1 23+00	55 LT	0508	0509		847.2	842.3																									12				
Y1 23+12	55 LT	0509		849.1																															
		0509	0511		842.3	841.2																									164				
Y1 23+10	8 LT	0510		849.8																															
		0510	0509		846.3	845.4																							48						
Y1 14+66	8 RT	0512		843.3																															
		0512	0513		839.7	836.8																							108						
Y1 26+06	10 RT	0513		840.5																															
		0513	0523		832.8	829.7																							88						
Y1 27+67	9 RT	0514		836.9																															
		0514	0516		833.3	831.5																							80						
Y1 27+89	54 RT	0515		831.8																															
		0515	0518		828.3	826.4																							152						
Y1 28+46	9 RT	0516		835.1																															
SHEET TOTALS (48" or Less)									252																				944	308	176	148		200	140

LINE & STATION	FROM	TO	18" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	24" WELDED STEEL PIPE 0.375" THICK, GRADE B IN SOIL	24" WELDED STEEL PIPE 0.375" THICK, GRADE B NOT IN SOIL	30" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G		CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29
L 12+41	0401																																
L 15+40	0403	0404																															
L 18+40	0406										1																						1
	0406	0405																															
Y4 10+95	0407										1													1									1
	0407	0408																															
Y4 11+49	0408										1	2.6												1							1		
	0408	0410																															
L 19+20	0409										1																						1
	0409	0411																															
Y4 11+82	0410										1	1.0									1	1											
	0410	0413																															
L 19+58	0411										1																						1
	0411	0412																															
Y4 12+26	0413										1										1	1											
	0413	0416																															
L 20+64	0414	0420							4.500																								
Y4 13+30	0419										1																						1
	0419	0433																															
L 21+55	0421										1																						1
	0421	0428																															
Y4 14+24	0424										1																						1
	0424	0423																															
L 22+10	0425	0422																															
Y4 14+24	0426										1																						1
	0426	0427																															
L 22+55	0428										1																						1
	0428	0429																															
L 23+20	0429										1																						1
	0429	0432																															
L 23+91	0431	0432							6.000																								
L 23+91	0432										1	5.0	2.2																				1
	0432	0430																															
Y4 13+30	0433										1																						1
	0433	0424																															
L 24+05	0501										1																						1
	0501	0432																															
L 24+35	0502										1																						1
	0502	0501																															
Y1 22+06	0507																																
Y1 23+00	0508	0509																															
Y1 23+12	0509										1	1.8																					
	0509	0511																															
Y1 23+10	0510										1								1		1	1											
	0510	0509																															
Y1 14+66	0512										1								1		1	1											
	0512	0513																															
Y1 26+06	0513										1	2.7							1		1	1											
	0513	0523																															
Y1 27+67	0514										1								1		1	1											
	0514	0516																															
Y1 27+89	0515										1	0.3												1						1			
	0515	0518																															
Y1 28+46	0516										1								1		1	1											
SHEET TOTALS (48" or Less)									11		24	13	2						5		7	7		3						1	1		14

LINE & STATION	FROM	TO	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	30" SIDE DRAIN PIPE ELBOW	SPRING BOX STD. 840.41	BERM DITCH OUTLET STD. 850.10 (SY)	BERM DITCH OUTLET STD. 850.11 (SY)	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 12+41	0401																		
L 15+40	0403	0404																	
L 18+40	0406				1														
	0406	0405							2										
Y4 10+95	0407																		
	0407	0408																	
Y4 11+49	0408																		
	0408	0410																	
L 19+20	0409				1														
	0409	0411																	
Y4 11+82	0410																		
	0410	0413																	
L 19+58	0411				1														
	0411	0412							2										
Y4 12+26	0413																		
	0413	0416																	
L 20+64	0414	0420																	
Y4 13+30	0419				1														
	0419	0433																	
L 21+55	0421				1														
	0421	0428																	
Y4 14+24	0424				1														
	0424	0423							2										
L 22+10	0425	0422																	
Y4 14+24	0426				1														
	0426	0427							2										
L 22+55	0428				1														
	0428	0429																	
L 23+20	0429				1														
	0429	0432																	
L 23+91	0431	0432																	
L 23+91	0432				1														See Special Detial 2C-8
	0432	0430																	
Y4 13+30	0433				1														
	0433	0424																	
L 24+05	0501				1														
	0501	0432																	
L 24+35	0502				1														
	0502	0501																	
Y1 22+06	0507																		
Y1 23+00	0508	0509																	
Y1 23+12	0509		1					1											
	0509	0511																	
Y1 23+10	0510																		
	0510	0509																	
Y1 14+66	0512																		
	0512	0513																	
Y1 26+06	0513																		
	0513	0523																	
Y1 27+67	0514																		
	0514	0516																	
Y1 27+89	0515																		
	0515	0518																	
Y1 28+46	0516																		
SHEET TOTALS (48" or Less)			1		13			1	8										

C.A.A. CORRUGATED ALUMINIUM ALLOY
C.B. CATCH BASIN
C.S. CORRUGATED STEEL
D.I. DROP INLET
G.D.I. GRATED DROP INLET
H.D.P.E. HIGH DENSITY POLYETHYLENE
J.B. JUNCTION BOX
M.H. MANHOLE
N.S. NARROW SLOT
P.V.C. POLYVINYL CHLORIDE
R.C. REINFORCED CONCRETE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX
W.S. WIDE SLOT

U-6187
FINAL | 3D-1

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIE COUNTY

ROADWAY DESIGN UNIT

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