R12/26/13

COMPUTED BY:	M. Kelly	DATE:	8/28/2014
CHECKED BY:	P. Schulken	DATE:	9/08/2014

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-5114	3D-1

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	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) SIZE	Side Drain Pipe THICKNESS OR GAUGE	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE SIZE	C. S. PIPE THICKNESS OR GAUGE	R. C. PIPE CLASS III	R. C. PIPE CLASS IV	R. C. PIPE CLASS V	24" WELDED STEEL PIPE .500" THICK, GRADE B IN SOIL	24" WELDED STEEL PIPE .500" THICK, GRADE B NOT IN SOIL	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) A: 0' THRU 5' EACH	B: 5' THRU 10' LIN. FT.	B: 10' AND ABOVE LIN. FT.	G.D.I. TYPE "A" STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	MANHOLE FRAME AND COVER 840.54	T.B.D.I. STD. 840.35	M.H. STD. 840.52	SIDE DRAIN PIPE ELBOWS	TEMP STEEL PLATE	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
Y4 23+30	58 LT	0405		934.3				15							12	.064										1	0.4			1		1											
		0405	0421		928.9	927.8	0.3											56																									
Y4 23+30	58 RT	0406		932.0																						1			1		1												
		0406	0422		927.3	924.9	1.0											100																									
L 16+00	22 RT	0407		956.4																						1							1			1							
		0407	0408		953.7	952.3	0.4												96																									
L 17+00	36 RT	0408		955.4																						1							1			1							
		0408	0410		951.2	950.4	0.3												72																									
L 17+00	46 LT	0409		955.0																																							
		0409	0408		951.4	951.2											84																										
RP1 10+59	22 RT	0410		953.4																						1							1			1							
		0410	0411		950.4	949.5	0.4										44																										
L 18+20	26 LT	0412		956.6																						1							1			1							
		0412	0413		954.1	953.9													68																									
L 18+60	31 RT	0413		957.3																						1							1			1							
		0413	0414		953.6	947.3		24																														2					
L 22+27	24 LT	0415		957.7																						1							1			1							
		0415	0416		955.2	955.0													48																									
L 22+27	25 RT	0416		957.5																						1							1			1							
		0416	0417		954.8	931.5		52																														2					
Y4 22+40	55 LT	0420		932.6																						1				1		1											
		0420	0405		929.1	928.9												88																									
Y4 23+30	0 CL	0421		932.5																						1			1			1											
		0421	0406		927.8	927.3	0.5											56																									
Y4 24+29	69 RT	0422		929.6																						1	2.5		1			1											
Y4 26+32	70 RT	0424		931.5																						1				1		1											
		0424	0425		928.8	928.4											104																										
Y4 25+50	132 RT	0425		935.1																						1	5.0	6.9						1				1					
RP2 12+05	26 LT	0501		944.1																						1	2.4			1			1										
Y4 28+26	82 LT	0701		918.5																						1				1		1											
		0701	0702		915.0	912.7												84																									
Y4 28+16	0 CL	0702		930.3																						1	5.0	7.6	1			1											
		0702	0703		912.7	905.0	0.4											116																									
Y4 31+00		0704	0705		919.4	917.8	0.5														70	70																					Trenchless installation 24" welded steel.
Y4 29+90	57 LT	0706		930.0																						1				1		1											
		0706	0718		927.3	926.0											72																										
Y4 31+25.74	0 CL	0712													164																									1			TEMPORARY PIPE
RP1_EXT 15+53	35 RT	0423																16																								0.5526		Remove FES & 8' of 24" conc. pipe.
		0000																																									
L 13+85	15 RT	0000																																									33
Y4 28+15	7 RT	0000																																									158
Y4 22+67	29 LT	0000																																						9			
Y4 23+63	33 RT	0000																																						17			
Y4 30+73	4 RT	0000																																						9			
						SHEET TOTALS		76							164		176	128	404			112			116	96	72	70	70	18	15.3	14.5	5	5	9	1	7	1	7	1	4	1	35	0.5526	191	
						PROJECT TOTALS		76							164		176	128	404			112			116	96	72	70	70	18	34.2		5	5	9	1	7	1	7	1	4	1	35	0.5526	191	

ABBREVIATIONS

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