COMPUTED BY:	Ray Lovinggood	DATE:	01/09/15
CHECKED BY:	Piotr Stojda	DATE:	01/13/15

PROJECT NO.	SHEET NO.
U-3338B	3D-4

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)

QUANTITIES FOR DRAINAGE STRUCTURES — NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)

LINE & STATION	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) SIZE 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 PVC	C. A. A. 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	R. C. PIPE CLASS IV 12	15	18	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48		15" DUCTILE IRON PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	0' THRU 5' EACH	5' THRU 10' (A) LIN. FT.	10' AND ABOVE (B) 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	SPECIAL JUNCTION BOX., SEE SHEET 2C-7	SPECIAL CATCH BASIN, SHEET 2C-1 OR 2C-6	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. (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	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXSITING J.B. TO 2GI	ADJUST M.H.	ADJUST C.B.	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 44+98	78 RT	1005		39.3																																															1			1			1																											
		1005	1006		36.5	36.4																																		32																																													
L 44+64	80 RT	1006		39.3																																															1			1		1																												
		1006	1012		36.2	35.9			32								X																																																																						
L 47+10	41 RT	1007		39.3																																															1			1		1																												
		1007	1023		34.6	34.2	0.7																																				32																																										
L 47+61	41 RT	1008		39.3																																															1			1	1																													
		1008	1007		36.2	34.6																																			48																																											
Y5 14+90	47 LT	1009		38.6																																															1	0.1													1		1																				
		1009	1011		33.5	33.4						56					X																																																																								
L 47+67	54 LT	1010		39.0																																															1	1.3		1	1																														
		1010	1002		32.6	32.4																																									76																																								
L 44+17	70 RT	1013		40.7																																														2.300																																					
		1013	1014		34.3	33.8	0.4																																					124																																									
L 43+54	84 RT	1015		35.0																																														6.000																																					
		1015	1018		31.3	31.2									36		X																																																																					
L 43+05	66 RT	1017		39.4																																															1																			1					1										
		1017	1018		36.2	36.1																																			40																																											
L 43+45	50 RT	1018		39.4																																															1	3.2		1			1																											
		1018	1019		31.2	30.9																																									96																																								
44+39	86 RT	1020		37.9																																																																															0.3528			
		1020	1021		35.9	35.2		8									X																																																																					
L 47+61	6 RT	1022		40.4																																															1							1											1					1										
		1022	1023		37.2	37.0																																			56																																											
L 47+03	6 RT	1023		40.5																																															1	1.3						1											1					1										
		1023	1002		34.2	33.5	0.6																																				60																																									
L 53+18	52 LT	1101		42.3																																															1											1	1																							
		1101	1102		39.1	38.3	1.1		16								X																																																																						
L 53+18	37 LT	1102		41.3																																															1			1			1																											
		1102	1103		36.9	35.6																																					204																																									
L 51+15	37 LT	1103		40.7																																															1	1.8		1		1																											
		1103	1106		33.8	33.5																																								100																																									
L 50+28	53 LT	1104		38.5																																															1											1	1																							
		1104	1105		33.9	33.8	1.2			8							X																																																																					
L 50+16	52 LT	1105		37.6																																															1														1		1																				
		1105	1106		33.8	33.7						16					X																																																																							
L 50+15	37 LT	1106		40.2																																															1	1.8		1		1																											
		1106	1110		33.5	33.0																																									148																																								
L 51+29	61 RT	1107		39.2																																															1	0.1										1	1																							
		1107	1108		34.1	34.1						16					X																																																																							
L 51+28	45 RT	1108		40.5																																															1	1.4		1			1																											
		1108	1103		34.1	33.8																																							80																																										
						SHEET TOTALS		8	48	8		88			36																									32	144		296	124	80	100	320			8.300	18	11.0		10	2	4	4	2				3	3		2		2		3					3							0.3528			

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

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