COMPUTED BY: DLS DATE: 5/10/15

CHECKED BY: EK DATE: 5/10/15

D083340

PROJECT NO.	SHEET NO.
U-3315	3D-11

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 %	DIP PIPE SEALED PIPE SYSTEM SEE SPECIAL PROVISIONS 16 (CLASS 250)	18 (CLASS 250)	24 (CLASS 250)	30 (CLASS 150)	36 (CLASS 150)	42 (CLASS 150)	48 (CLASS 150)	SEALED DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR SEALED 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.	SEALED STRUCTURE WITH BOOTS	R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	36	42	48	R. C. PIPE CLASS V 42	48 UNDER RR	DRAINAGE STRUCTURE MASONRY 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
L 84+01	32	RT	1111		47.7												1			1																					1	1		
			1111	1102		43.8	43.6				68																																	
L 85+17	28	RT	1112		48.5																																	1			1			1
			1112	1115		44.6	44.0																							72														
L 85+97.92	25	RT	1119																																									
			1119	1112		46.3	45.1																						80															
L 84+47	31	RT	1115		47.9																																	1			1			1
			1115	1111		44.0	43.8																							48														
Y14 20+10	41	LT	1116		48.0																																	1			1		1	
			1116	1106		44.3	44.0																					72																
L 81+20	48	RT	1117		44.5												1			1																					1			1
			1117	1020		41.3	41.2		32																																			
Y1 13+00	43	RT	1201		69.3																																	1			1		1	
			1201	1202		66.2	65.8																						88															
Y1 11+80	42	RT	1201A		69.6																																	1			1		1	
			1201A	1201D		66.7	66.6	0.3													48																							
Y1 11+00	42	RT	1201B		69.8																																	1			1		1	
			1201B	1201C		67.0	66.8	0.3																				40																
Y1 11+40	42	RT	1201C		69.7																																	1			1		1	
			1201C	1201A		66.8	66.7	0.3																				40																
Y1 12+06.95	80	RT	1201D		70.1																																	1			1			1
			1201D	1215		66.6	66.5	0.3																				36																
Y1 11+80	42	LT	1202A		69.6																																	1			1			1
			1202A	1202		66.4	65.8																					120																
Y1 13+00	43	LT	1202		69.3																																	1			1			1
			1202	1204		65.8	65.4																							152														
Y1 13+73.63	49	RT	1203A		69.0																																	1			1		1	
			1203A	1203		66.0	65.8	0.3																				76																
Y1 14+50	57	RT	1203		68.8																																	1			1	1		
			1203	0532		65.8	65.6																					60																
Y1 14+50	46	LT	1204		69.1																																	1			1	1		
			1204	0536		65.4	65.3																							40														
Y1 23+16	46	RT	1206A		69.8																																	1			1			1
			1206A	1206		66.7	66.0																					100																
Y1 22+25	48	RT	1206		69.6																																	1	0.7		1			1
			1206	1209		63.9	63.4																100																					
Y1 22+41.81	64	RT	1207		69.4																																	1	0.5					
			1207	1206		64.0	63.9														20																							
Y1 26+19	42	RT	1211A		70.4																																	1			1			1
			1211A	1213		37.5	37.4																					36																
Y1 25+28	43	RT	1211		70.1																																	1			1			1
			1211	1210		65.8	65.5																								88													
Y1 25+50	71	RT	1212		70.8																																	1			1			1
			1212	1211		67.2	67.1	0.5																						36														
Y1 25+94	71	RT	1213		70.4																																	1			1		1	
			1213	1214		37.4	37.3																					20																
Y1 25+74	71	RT	1214		71.2																																	1						
			1214	1212		67.3	67.2	0.4																						24														
Y1 12+43	69	RT	1215		69.9																																	1			1		1	
			1215	1201		66.3	66.2															64																						
								SHEET TOTALS	32		68						2			2	68	64	100					600	168	372	88							22	1.2		22	3	8	11

LINE & STATION	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION 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	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34 OR SEE REMARKS	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	ANTI-SEEP COLLAR - SEE SPEC. PROV. EA.	ADJUST C.B.	ADJUST D.I.	CONCRETE FLUME IN 2'-0" C&G (SEE REMARKS)	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 84+01	1111																																						60	
	1111	1102																													1									SEE DETAIL 2C-16
L 85+17	1112																																							
	1112	1115																																						
L 85+97.92	1119																																						230	EXISTING MANHOLE, CONNECT NEW 18" RCP
	1119	1112																																						
L 84+47	1115																																							
	1115	1111																																						
Y14 20+10	1116																																						206	
	1116	1106																																						
L 81+20	1117																																							
	1117	1020																																						
Y1 13+00	1201																																							
	1201	1202																																						
Y1 11+80	1201A																																							
	1201A	1201D																																						
Y1 11+00	1201B																																							
	1201B	1201C																																						
Y1 11+40	1201C																																							
	1201C	1201A																																						
Y1 12+06.95	1201D																																							
	1201D	1215																																						
Y1 11+80	1202A																																							
	1202A	1202																																						
Y1 13+00	1202																																							
	1202	1204																																						
Y1 13+73.63	1203A																																							
	1203A	1203																																						
Y1 14+50	1203																																							
	1203	0532																																						
Y1 14+50	1204																																							
	1204	0536																																						
Y1 23+16	1206A																																							
	1206A	1206																																						
Y1 22+25	1206																																							
	1206	1209																																						
Y1 22+41.81	1207				1	1																																		REPLACE EXISTING DI
	1207	1206																																						
Y1 26+19	1211A																																						36	
	1211A	1213																																						
Y1 25+28	1211																																							
	1211	1210																																						
Y1 25+50	1212																																						32	PRECAST STRUCTURE
	1212	1211																																						
Y1 25+94	1213																																						22	
	1213	1214																																						
Y1 25+74	1214																						1						1										22	
	1214	1212																																						
Y1 12+43	1215																																							
	1215	1201																																						
SHEET TOTALS					1	1																	1						1				1						608	

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