COMPUTED BY:	DLS	DATE:	5/10/15
CHECKED BY:	EK	DATE:	5/10/15

DD83340

PROJECT NO.	SHEET NO.
U-3315	3D-1

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	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 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
L 11+31.76	31 LT	0421		71.8																															
		0421	0402		67.3	66.8																								148					
L 12+80	35 LT	0402		71.3																															
		0402	0403		66.8	66.3																								136					
L 14+16	37 LT	0403		70.9																															
		0403	0404A		66.3	66.1																								36					
L 14+42	57 LT	0422		71.3																															
		0422	0404A		68.5	67.2														20															
L 14+48	38 LT	0404A		71.1																															
		0404A	0404		66.1	65.9																								32					
L 14+80	39 LT	0404		71.2																															
		0404	0405		65.9	65.7																								32					
L 15+05	57 LT	0405		71.0																															
		0405	0406		65.7	65.5																								40					
L 15+05	113 LT	0405A		71.8																															
		0405A	0406A		68.7	68.6	0.3																				36								
L 15+41	113 LT	0406A		71.8																															
		0406A	0406		68.6	66.7																					56								
L 15+41	57 LT	0406		70.9																															
		0406	0407		65.5	65.4	0.4																							32					
L 15+66	40 LT	0407		71.6																															
		0407	0408		65.4	64.4																									168				
L 17+31	40 LT	0408		72.0																															
		0408	0409		64.4	64.3																									28				
L 17+50	59 LT	0409		70.1																															
		0409	0410		64.3	64.2																									40				
L 16+75	13 LT	0420		71.8																															
		0420	0419		68.5	68.2																					100								
L 17+73	13 LT	0419		71.4																															
		0419	0410		68.2	65.9																					52								
L 17+85	60 LT	0410		70.1																															
		0410	0501		64.2	63.7																									144				
L 11+53	32 RT	0411A		71.8																															
		0411A	0411		68.7	68.1	0.5																				112								
L 12+64	34 RT	0411		71.3																															
		0411	0413A		68.1	67.8																					104								
L 13+68	36 RT	0413A		71.1																															
		0413A	0413		67.8	67.5	0.3																				104								
L 14+70.45	64 RT	0423		70.6																															
		0423	0413		67.2	67.0															24														
L 14+71	38 RT	0413		70.8																															
		0413	0416A		66.7	66.4																							96						
L 15+65	40 RT	0416A		70.6																															
		0416A	0414		66.4	66.2	0.3																						60						
L 16+22	58 RT	0415		70.8																															
		0415	0414		67.6	67.0														16															
L 16+24	46 RT	0414		70.4																															
		0414	0416		66.2	66.0																							56						
L 16+77	65 RT	0417		70.2																															
		0417	0416		67.0	66.8														16															
						SHEET TOTALS														52	24						564		212	456	380				

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

LINE & STATION	FROM	TO	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES 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	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 11+31.76	0421																																															CONNECT TO 30" RCP
	0421	0402																																														CONNECT TO EXIST STRUC. 0421
L 12+80	0402			1			1			1																																					146	
	0402	0403																																														
L 14+16	0403			1			1	1																																								
	0403	0404A																																														
L 14+42	0422																																								1						48	CONNECT TO 15" RCP
	0422	0404A																																														
L 14+48	0404A			1	0.0		1		1																																							
	0404A	0404																																													200	
L 14+80	0404			1	0.3		1		1																																							PRECAST STRUCTURE
	0404	0405																																														
L 15+05	0405			1	0.3		1		1																																						30	PRECAST STRUCTURE
	0405	0406																																														
L 15+05	0405A			1			1		1																																							
	0405A	0406A																																														
L 15+41	0406A			1			1			1																																						
	0406A	0406																																														
L 15+41	0406			1	0.4		1			1																																					30	PRECAST STRUCTURE
	0406	0407																																														
L 15+66	0407			1	1.2		1		1																																						155	PRECAST STRUCTURE
	0407	0408																																														
L 17+31	0408			1	2.6		1			1																																					60	PRECAST STRUCTURE
	0408	0409																																														
L 17+50	0409			1	0.8		1		1																																						24	PRECAST STRUCTURE
	0409	0410																																														
L 16+75	0420			1							1		1	1																																	60	
	0420	0419																																														
L 17+73	0419			1							1		1	1																																	18	
	0419	0410																																													58	
L 17+85	0410			1	0.9		1			1																																					32	
	0410	0501																																														
L 11+53	0411A			1			1		1																																							
	0411A	0411																																														
L 12+64	0411			1			1		1																																						62	
	0411	0413A																																														
L 13+68	0413A			1			1		1																																							
	0413A	0413																																														
L 14+70.45	0423			1			1	1																																							42	
	0423	0413																																														
L 14+71	0413			1			1		1																																						60	
	0413	0416A																																														
L 15+65	0416A			1			1		1																																							
	0416A	0414																																														
L 16+22	0415			1												1							1																									
	0415	0414																																														
L 16+24	0414			1			1		1																																						16	
	0414	0416																																														
L 16+77	0417			1												1							1																									
	0417	0416																																														
SHEET TOTALS				23	6.5		19	2	12	5	2		2	2		2							2																		1						1041	

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