D083340

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

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3315	3D-6

**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)

Size / Thickness or Gauge. DIP PIPE: SEALED PIPE SYSTEM, SEE SPECIAL PROVISIONS. Quantities for sealed drainage structures / quantities for drainage structures — NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B).

Line & Station	Offset		Structure No. From	Structure No. To	Top Elevation (FT.)	Invert Elevation (FT.)	Invert Elevation (FT.)	Minimum Required Slope (%)	DIP 16 (Class 250)	DIP 18 (Class 250)	DIP 24 (Class 250)	DIP 30 (Class 150)	DIP 36 (Class 150)	DIP 42 (Class 150)	DIP 48 (Class 150)	Sealed Drainage Structure Masonry (CY)	Sealed A 0' thru 5' (EACH)	Sealed A 5' thru 10' (LIN. FT.)	Sealed B 10' and above (LIN. FT.)	Sealed Structure with Boots	R.C. Pipe Class III 15	Class III 18	Class III 24	Class III 30	Class III 36	Class III 42	Class III 48	R.C. Pipe Class IV 15	Class IV 18	Class IV 24	Class IV 30	Class IV 36	Class IV 42	Class IV 48	R.C. Pipe Class V 42	Class V 48 Under RR
			0702	0701		65.8	64.9																					136								
L 41+64	86	LT	0703		69.8																															
			0703	0702		65.9	65.8																					44								
L 41+33	100	RT	0701A		69.2																															
			0701A	0703		66.0	65.9	0.3																				36								
Y5 11+30	18	RT	0721		67.6																															
			0721	0722		64.2	64.1																					12								
Y5 11+28	10	RT	0722		67.8																															
			0722	0724A		63.5	63.2																								88					
Y5 11+63.35	9	RT	0739																																	
			0739	0722		63.7	63.5																							32						
Y5 11+28	18	LT	0723		67.6																															
			0723	0722		64.5	64.1																					32								
L 40+97	57	RT	0724		68.2																															
			0724	0724A		65.0	64.5																					96								
Y5 10+55.92	39	RT	0724A		68.6																															
			0724A	0621A		63.2	62.4																	152												
L 45+34	166	LT	0705		66.3																															
			0705	0707		63.1	61.4														28															
L 45+18	132	LT	0706		66.2																															
			0706	0707		63.0	61.4																					52								
L 45+60	163	LT	0707		64.9																															
			0707	0708		61.4	59.6	0.4																					116							
Y7 15+85	38	RT	0708		63.6																															
			0708	0712		56.9	56.8	0.4																						36						
Y7 15+60	15	RT	0709		64.7																															
			0709	0708		59.9	59.6																							40						
Y7 14+75	15	RT	0710		64.1																															
			0710	0709		60.0	59.9																							88						
Y7 14+54	29	LT	0711		64.1																															
			0711	0710		61.0	60.8																					52								
Y7 16+21	39	RT	0712		63.3																															
			0712	0713		56.8	56.7																								32					
Y7 16+43	16	RT	0713		63.4																															
			0713	0716		56.7	56.4																								108					
L 47+27	45	LT	0714		65.3																															
			0714	0715		62.1	60.2														40															
L 47+27	86	LT	0715		63.2																															
			0715	0716		60.2	58.6	0.4													44															
Y7 17+49	16	RT	0716		63.0																															
			0716	0717		56.4	56.2																								52					
Y7 17+82	21	LT	0717		62.9																															
			0717	0718		56.2	56.1																								36					
Y7 18+06	49	LT	0718		62.4																															
			0718	0719		56.1	55.7																	148												
L 49+90	57	LT	0719		61.1																															
			0719	0802		55.7	55.2																								164					
L 50+75	98	LT	0720		60.0																															
L 44+00	57	RT	0725		69.0																															
			0725	0735		64.5	64.1																					56								
SHEET TOTALS																					112			300				516	116	196	480					

Line & Station	Structure No.	Drainage Structure Masonry (CY)	A 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	Grate Type F	Grate Type G	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 41+64	0703		1			1			1																																						
L 41+33	0701A		1			1		1																																							
Y5 11+30	0721		1			1	1																																								
Y5 11+28	0722		1																										1						1												
Y5 11+63.35	0739																																														EXIST MH - CONNECT TO 24" RCP
Y5 11+28	0723		1			1	1																																								
L 40+97	0724		1			1			1																																						
Y5 10+55.92	0724A		1																										1						1											114	
L 45+34	0705		1			1			1																																						PRECAST STRUCTURE
L 45+18	0706		1			1		1																																							
L 45+60	0707		1			1			1																																						PRECAST STRUCTURE
Y7 15+85	0708		1	1.7		1	1																																								PRECAST STRUCTURE
Y7 15+60	0709		1			1		1																																							PRECAST STRUCTURE
Y7 14+75	0710		1			1		1																																							
Y7 14+54	0711		1			1			1																																						
Y7 16+21	0712		1	1.5		1	1																																								PRECAST STRUCTURE
Y7 16+43	0713		1	1.7		1		1																																						110	PRECAST STRUCTURE
L 47+27	0714		1			1			1																																					120	
L 47+27	0715		1									1	1																																		
Y7 17+49	0716		1	1.6		1	1																																							46	PRECAST STRUCTURE
Y7 17+82	0717		1	1.7						1		1	1																				1													230	PRECAST STRUCTURE
Y7 18+06	0718		1	1.3		1	1																																								PRECAST STRUCTURE
L 49+90	0719		1	0.4		1			1																																					222	
L 50+75	0720		1												1							1																									CONSTRUCT ON EXISTING 18" RCP
L 44+00	0725		1			1		1																																							
SHEET TOTALS			24	9.9		19	6	6	7	1		2	2		1							1							2				1		2											842	

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