1612LP-M70196

COMPUTED BY:	URS	DATE:	02/15/2017
CHECKED BY:	NJD	DATE:	02/15/2017

PROJECT NO.	SHEET NO.
R-3100B	3D-2

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	OFFSET		STRUCTURE NUMBER FROM	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 15	18	24	30	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE 15 (.064)	18 (.064)	24 (.064)	30 (.079)	60 (.109)	R. C. PIPE CLASS III 15	18	24	30	R. C. PIPE CLASS IV 15	18	24	30	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY
L 32+63	54	LT	0520		893.1																												
			0520	0524		886.8	886.6	0.4																		44							
L 34+10	10	LT	0521		893.7																												
			0521	0522		890.9	890.6																				68						
L 33+40	10	LT	0522		893.3																												
			0522	0523		890.6	890.3																				52						
L 32+85	10	LT	0523		893.1																												
			0523	0524		890.3	889.7																				24						
L 32+61	9	LT	0524		892.9																												
			0524	0526		886.6	886.3	0.4																		48							
L 33+75	39	RT	0525		892.2																												
			0525	0526		888.8	888.3																					104					
L 32+70	39	RT	0526		891.8																												
			0526	0527		886.3	886.0	0.5																		60							
L 32+10	39	RT	0527		891.5																												
			0527	0528		886.0	883.2	0.5				36																					
L 34+49	39	RT	0530		892.6																												
			0530	0525		889.4	889.0																				72						
L 31+25	7	LT	0531		892.1																												
			0531	0512		888.9	888.2																				32						
L 31+73	8	RT	0532		892.3																												
			0532	0531		889.1	888.9																				48						
L 32+70	63	LT	0533		892.6																												
			0533	0520		886.8	886.8	0.3				12																					
L 35+06	66	LT	0602		897.2																												
			0602	0519		893.5	892.7	0.3	160																								
L 35+10	10	LT	0603		894.1																												
			0603	0610		891.4	889.9																				48						
L 36+10	10	LT	0604		894.6																												
			0604	0609		891.7	890.3																				48						
L 37+00	10	LT	0605		895.0																												
			0605	0604		892.2	891.7																				88						
L 37+70	10	LT	0606		895.2																												
			0606	0632		892.5	891.5																				24						
L 37+58	39	RT	0607		894.0																												
			0607	0608		891.0	890.7																				56						
L 37+00	39	RT	0608		893.7																												
			0608	0609		890.7	890.2																				88						
L 36+10	39	RT	0609		893.3																												
			0609	0610		890.2	889.7																				100						
L 35+10	39	RT	0610		892.9																												
			0610	0530		889.7	889.4																				60						
Y2 13+39	21	RT	0611		897.3																												
			0611	0612		893.0	892.8																				44						
Y2 13+38	25	LT	0612		897.5																												
			0612	0618		892.5	892.3	0.4																				48					
L 39+00	71	LT	0613		897.8																												
			0613	0612		895.6	894.5		40																								
L 39+52	10	LT	0614		896.0																												
			0614	0618		893.3	892.6																				88						
								SHEET TOTALS	200			48														152	940	152					

STRUCTURE NUMBER FROM	TO	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	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	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 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. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	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	15" PIPE END SECTION	CONVERT EXISTING D.I. TO J.B. W/MH	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)	PREFORMED SCOUR HOLE (PER EACH)	DRAINAGE INLET TRANSITIONAL GUTTER SECT. EA	FLOWABLE FILL CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
0520		1	1.4		1			1																													
0521		1													1		1																1				
0522		1													1		1																1				
0523		1													1		1																1				
0524		1	1.3						1			1	1																				1				
0525		1			1			1																													
0526		1	0.4		1			1																													
0527		1	0.5		1			1																													
0530		1			1			1																													
0531		1							1			1	1																				1				
0532		1							1			1	1																				1				
0533		1	0.7											1					1																		
0602		1																			1			1													
0603		1													1		1																1				
0604		1													1		1																1				
0605		1													1		1																1				
0606		1													1		1																1				
0607		1			1			1																													
0608		1			1			1																													
0609		1			1			1																													
0610		1			1			1																													
0611		1			1		1																														
0612		1			1			1																													
0613		1													1				1																		
0614		1													1		1																1				
SHEET TOTALS		25	4.3		11		1	10	3			3	3	1	9		8		2		1			1									11				

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