TGSZJR-LAPTOP

COMPUTED BY: BAJ DATE: 6/4/20

CHECKED BY: BJH DATE: 6/4/20

PROJECT NO.	SHEET NO.
R-3830	3D-6

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 %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 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
L 62+93	40	RT	0731		450.4																
			0731	0733		443.6	443.3	0.8													
L 61+89	40	RT	0732		449.3																
			0732	0731		446.3	444.3														
Y7 10+54	19	RT	0734		451.4																
			0734	0735		449.1	448.1			44								X	X		
Y7 11+00	21	RT	0735		450.4																
			0735	0736		448.1	447.7														
Y7 11+00	19	LT	0736		450.8																
			0736	0723		447.7	447.4														
L 66+00	9	LT	0801		454.2																
			0801	0729		448.0	447.0	0.6													
L 67+00	9	LT	0802		455.0																
			0802	0801		449.0	448.0	0.5													
L 68+00	9	LT	0803		455.8																
			0803	0802		450.0	449.0	0.4													
L 67+32	63	LT	0804		453.8																
			0804	0805		451.5	450.6			68								X	X		
L 68+00	65	LT	0805		453.9																
			0805	0803		450.6	450.0														
L 68+85	68	LT	0806		453.8																
			0806	0805		451.5	450.6			84								X	X		
L 69+50	9	LT	0807		457.0																
			0807	0803		453.6	450.0														
L 71+00	9	LT	0808		458.1																
			0808	0807		455.1	453.6														
L 69+00	40	RT	0809		454.5																
			0809	0810		451.5	449.5														
L 67+00	40	RT	0810		453.8																
			0810	0730		449.5	447.5														
L 73+97	9	LT	0811		458.3																
			0811	0812		455.5	454.4														
L 74+99	9	LT	0812		457.6																
			0812	0814		454.4	453.3														
L 76+10	9	LT	0814		456.6																
			0814	0817		453.3	452.0														
L 73+76	40	RT	0815		457.1																
			0815	0816		454.1	453.0														
L 74+96	40	RT	0816		456.2																
			0816	0817		453.0	452.0														
L 76+16	40	RT	0817		455.2																
			0817	0831		452.0	448.0														
Y8 12+15	54	RT	0818		454.6																
			0818	0819		452.3	451.6														
Y8 12+20	17	LT	0819		456.5																
			0819	0821		451.6	451.2														
Y8 11+50	29	LT	0820																		
			0820	0819		454.1	451.6				64							X	X		
L 76+96	40	LT	0821		455.8																
			0821	0824		451.2	450.4														
								SHEET TOTALS		196	64										

FROM	TO	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	T.B.D.I. STD. 840.35	REMARKS
0731										1	1.8		1			1					
0731	0733				28																
0732										1			1			1					
0732	0731		100																		
0734										1							1	1			
0734	0735																				
0735										1							1	1			
0735	0736		40																		
0736										1							1	1			
0736	0723		36																		
0801										1	1.2								1	1	TRAFFIC BEARING 2GI
0801	0729		100																		
0802										1	1.0								1	1	TRAFFIC BEARING 2GI
0802	0801		100																		
0803										1	0.8								1	1	TRAFFIC BEARING 2GI
0803	0802		96																		
0804										1							1	1			
0804	0805																				
0805										1							1	1			
0805	0803		56																		
0806										1							1	1			
0806	0805																				
0807										1									1	1	TRAFFIC BEARING 2GI
0807	0803		148																		
0808										1									1	1	TRAFFIC BEARING 2GI
0808	0807		148																		
0809										1			1			1					
0809	0810		196																		
0810										1			1			1					
0810	0730		200																		
0811										1									1	1	TRAFFIC BEARING 2GI
0811	0812		100																		
0812										1									1	1	TRAFFIC BEARING 2GI
0812	0814		108																		
0814										1									1	1	TRAFFIC BEARING 2GI
0814	0817		48																		
0815										1			1		1						
0815	0816		116																		
0816										1			1		1						
0816	0817		116																		
0817										1			1		1						
0817	0831		112																		
0818										1							1	1			
0818	0819		68																		
0819										1			1			1					
0819	0821			44																	
0820																					
0820	0819																				
0821										1			1			1					
0821	0824			76																	
SHEET TOTALS			1888	120	28					24	4.8		9		3	6	7	7	8	8	

R. C. PIPE CLASS V 12	15	18	24	30	36	42	48	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	GRATE TYPE (blank)	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	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	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. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL COVER, SEE DETAIL SHEET 2C-12	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.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	15" DRAINAGE PIPE ELBOW	18" DRAINAGE PIPE ELBOW	SPECIAL D.I., SEE DETAIL SHEET 2C-6	G.D.I. TYPE 'A' MIN. DEPTH, SEE DETAIL SHEET 2C-7	T.B. 2GI TYPE 'A', SEE DETAIL SHEET 2C-8	BERM DRAINAGE OUTLET STD. 850.10 (SY)	BERM DRAINAGE OUTLET STD. 850.11 (SY)	PIPE CLEANOUT EA	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.

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