TGSZJR-LAPTOP

COMPUTED BY: BAJ **DATE:** 6/4/20

CHECKED BY: BJH **DATE:** 6/4/20

PROJECT NO.	SHEET NO.
R-3830	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 / 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	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48
			0505	0504		456.7	454.7																116														
L 28+99	4	LT	0506		460.7																																
			0506	0505		457.5	456.7																								36						
L 29+30	9	RT	0507		461.1																																
			0507	0506		457.9	457.5																32														
L 31+04	40	RT	0508		462.2																																
			0508	0510		458.7	458.3	0.3															96														
L 31+04	64	RT	0509		461.5																																
			0509	0508		458.8	458.7	0.3															24														
L 30+08	41	RT	0510		461.3																																
			0510	0514		458.3	455.9																152														
L 30+08	54	RT	0511		461.2																																
			0511	0510		458.9	458.3			12								X	X																		
L 29+42	76	RT	0512		459.4																																
			0512	0513		457.1	456.3																56														
Y2 10+75	17	RT	0513		459.3																																
			0513	0514		456.3	455.9			48								X	X																		
L 28+54	41	RT	0514		459.0																																
			0514	0515		455.9	452.3																212														
L 26+40	41	RT	0515		455.4																																
			0515	0516		452.3	449.0	0.4															200														
L 24+40	41	RT	0516		452.0																																
			0516	0421		449.0	445.6	0.6															204														
L 25+60	40	LT	0517		454.0																																
			0517	0502		451.0	448.4																152														
L 32+85	40	LT	0518		461.1																																
			0518	0519		458.1	455.3																84														
Y3 18+58	21	RT	0519		459.0																																
			0519	0521		455.3	451.1																136														
Y3 18+58	24	LT	0520		458.8																																
			0520	0519		455.5	455.3																44														
Y3 17+22	34	RT	0521		454.3																																
			0521	0523		451.1	450.7	0.5															68														
Y3 17+23	20	LT	0522		456.7																																
			0522	0521		452.1	451.1																52														
Y3 15+34	39	RT	0524																																		
			0524	0525		448.3	447.0					24																									
L 32+38	40	RT	0526		461.6																																
			0526	0528		458.6	457.2																92														
L 32+38	58	RT	0527		461.1																																
			0527	0526		458.8	458.6			16								X	X																		
L 33+33	40	RT	0528		460.5																																
			0528	0537		457.2	453.4																132														
L 36+55	40	RT	0529		456.4																																
			0529	0606		452.5	447.7	0.4															192														
L 37+27	53	LT	0530		455.0																																
			0530	0601		452.0	448.7																120														
L 35+90	52	LT	0531		457.0																																
			0531	0530		453.3	452.0																136														
L 35+90	70	LT	0532		455.8																																
								SHEET TOTALS		76		24											2300								36						

LINE & STATION	STRUCTURE NUMBER	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) 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	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 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
L 28+99	0506		1							1															1			
L 29+30	0507		1							1															1			
L 31+04	0508		1																									
L 31+04	0509		1																									
L 30+08	0510		1			1			1																			
L 30+08	0511		1										1	1														
L 29+42	0512		1										1	1														
Y2 10+75	0513		1			1		1																				
L 28+54	0514		1			1			1																			
L 26+40	0515		1			1			1																			
L 24+40	0516		1			1			1																			
L 25+60	0517		1			1		1																				
L 32+85	0518		1			1			1																			
Y3 18+58	0519		1			1			1																			
Y3 18+58	0520		1			1		1																				
Y3 17+22	0521		1													1							1					
Y3 17+23	0522		1			1		1																				
Y3 15+34	0524																											
L 32+38	0526		1			1		1																				
L 32+38	0527		1										1	1														
L 33+33	0528		1			1		1																				
L 36+55	0529		1			1		1																				
L 37+27	0530		1			1			1																			
L 35+90	0531		1			1			1																			
L 35+90	0532		1										1	1														
SHEET TOTALS			24			15		7	8	2			4	4		1							1		2			

LINE & STATION	STRUCTURE NUMBER	T.B.J.B. STD. 840.34	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 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.	REMARKS
L 28+99	0506		1			1																					TRAFFIC BEARING 2GI
L 29+30	0507		1			1																					TRAFFIC BEARING 2GI
L 31+04	0508	1						1																			TRAFFIC BEARING JB W/ MH FRAME & COVER
L 31+04	0509			1	1																						TRAFFIC BEARING 2GI W/ STEEL GRATES
SHEET TOTALS		1	2	1	1	2		1																			

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