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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-6005	3D-2

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, PVC, or PP PIPE) 12	15	18	24	30	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	DO NOT USE PP PIPE
L 21+43	43 LT	0430		972.9														
		0430	0431		970.7	970.2			16					X	X	X	X	X
L 21+48	27 LT	0431		973.3														
		0431	0425		970.2	968.6	1.6											
L 22+52	27 RT	0432		975.2														
		0432	0429		972.1	969.2												
L 23+13	47 LT	0433		974.6														
		0433	0434		972.4	972.3			20					X	X	X	X	X
L 23+13	27 LT	0434		976.4														
		0434	0431		972.3	970.2	1.2											
L 24+00	27 RT	0435		978.0														
		0435	0432		974.8	972.1												
L 11+73	25 RT	0436		977.3														
		0436	0401		974.1	973.2												
L 24+61	42 LT	0501		978.7														
		0501	0502		976.5	975.9			16					X	X	X	X	X
L 24+60	27 LT	0502		979.1														
		0502	0434		975.9	972.3	0.5											
L 26+02	43 LT	0503		981.2														
		0503	0504		978.9	978.8			16					X	X	X	X	X
L 26+02	27 LT	0504		982.3														
		0504	0502		978.8	975.9												
L 26+45	27 RT	0505		982.5														
		0505	0506		979.3	978.0			28					X	X	X	X	X
L 28+00	27 LT	0507		985.3														
		0507	0504		982.2	978.8												
L 28+00	27 RT	0508		985.3														
		0508	0505		982.2	979.3												
Y6 10+32	21 RT	0509		977.7														
Y6 10+15	31 LT	0510		977.9														
Y6REV1 10+62	16 LT	0511		979.8														
		0511	0510		976.4	976.1	0.4											
Y6REV1 11+27	15 LT	0512		984.8														
		0512	0511		979.2	976.4	0.4											
Y6REV1 11+25	40 LT	0513		982.3														
		0513	0512		979.3	979.2												
Y6REV1 11+82	20 RT	0514		988.9														
		0514	0515		985.8	985.6												
Y6REV1 11+85	20 LT	0515		988.8														
		0515	0512		983.3	981.3	0.3											
Y7REV 10+75	21 RT	0516		988.9														
		0516	0518		985.7	984.5												
Y7REV 10+75	20 LT	0517		989.1														
		0517	0516		985.9	985.7												
Y7REV 11+35	15 RT	0518		987.7														
		0518	0519		984.5	982.8												
Y7REV 11+95	12 RT	0519		986.0														
		0519	0520		982.8	982.6												
L 31+40	26 LT	0521		989.0														
		0521	0515		983.7	983.3												
SHEET TOTALS									96									

STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	C. S. PIPE 12 .064	15 .064	18 .064	24 .064	30 .079	36 .079	42 .109	48 .109	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48
0430																	
0430	0431																
0431																	
0431	0425																
0432																	
0432	0429																
0433																	
0433	0434																
0434																	
0434	0431																
0435																	
0435	0432																
0436																	
0436	0401																
0501																	
0501	0502																
0502																	
0502	0434																
0503																	
0503	0504																
0504																	
0504	0502																
0505																	
0505	0506																
0507																	
0507	0504																
0508																	
0508	0505																
0509																	
0510																	
0511																	
0511	0510																
0512																	
0512	0511																
0513																	
0513	0512																
0514																	
0514	0515																
0515																	
0515	0512																
0516																	
0516	0518																
0517																	
0517	0516																
0518																	
0518	0519																
0519																	
0519	0520																
0521																	
0521	0515																
SHEET TOTALS																	

STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	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
0430																	
0430	0431																
0431																	
0431	0425		84														
0432																	
0432	0429		128														
0433																	
0433	0434																
0434																	
0434	0431		164														
0435																	
0435	0432		148														
0436																	
0436	0401		8														
0501																	
0501	0502																
0502																	
0502	0434		148														
0503																	
0503	0504																
0504																	
0504	0502		140														
0505																	
0505	0506																
0507																	
0507	0504		196														
0508																	
0508	0505		156														
0509																	
0510																	
0511																	
0511	0510			48													
0512																	
0512	0511			64													
0513																	
0513	0512			24													
0514																	
0514	0515		40														
0515																	
0515	0512			56													
0516																	
0516	0518		56														
0517																	
0517	0516										40						
0518																	
0518	0519		56														
0519																	
0519	0520		44														
0521																	
0521	0515			80													
SHEET TOTALS			1368	272							40						

STRUCTURE NUMBER FROM	STRUCTURE NUMBER 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		D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION C.B. STD. 852.05		OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	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. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	J.B. STD. 840.31 OR STD. 840.32	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	ADJUST C.B.	ADJUST D.I.		15" DRAINAGE PIPE ELBOW		15" C.S. ELBOW	18" C.S. ELBOW		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
0430		1													1	1																						
0430	0431																																					
0431		1			1		1																															
0431	0425																																					
0432		1			1			1																														
0432	0429																																					
0433		1													1	1																						
0433	0434																																					
0434		1			1		1																															
0434	0431																																					
0435		1			1			1																														
0435	0432																																					
0436		1			1		1																															
0436	0401																																					
0501		1													1	1																						
0501	0502																																					
0502		1			1		1																															
0502	0434																																					
0503		1													1	1																						
0503	0504																																					
0504		1			1		1																															
0504	0502																																					
0505		1			1			1																														
0505	0506																																					
0507		1			1		1																															
0507	0504																																					
0508		1			1			1																														
0508	0505																																					
0509																										1												
0510																										1												
0511		1			1		1																															
0511	0510																																					
0512		1	0.6		1		1																															
0512	0511																																					
0513		1																1		1																		
0513	0512																																					
0514		1			1			1																														
0514	0515																																					
0515		1	0.5		1		1																															
0515	0512																																					
0516		1			1		1																															
0516	0518																																					
0517		1			1		1																															
0517	0516																																					
0518		1			1		1																															
0518	0519																																					
0519		1			1		1																															
0519	0520																																					
0521		1	0.3		1			1																														
0521	0515																																					
SHEET TOTALS		24	1.4		19		13	6							4	4		1		1				2													

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