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DBOCKER-7

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3330	3D-3

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 %	Side Drain Pipe (RCP, CSP, CAAP, or HDPE) 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	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	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48
		0603	0602		89.3	88.6																																8						
L 57+40	89 LT	0605		95.0																																								
		0605	0602		83.2	82.9																																				100		
L 57+00	78 LT	0606		91.2																																								
		0606	0605		88.5	88.3			44								X	X	X	X																								
L 57+21	4 LT	0607		98.5																																								
		0607	0605		83.4	83.2																																				88		
L 56+75	92 RT	0608		92.0																																								
		0608	0607		83.7	83.4																																				108		
L 53+93	87 RT	0609		90.8																																								
		0609	0608		84.6	84.2								284			X	X	X	X																								
		0610	0608		85.8	83.7																																						
Y4 12+50	21 LT	0612		94.3																																								
		0612	0611		91.0	90.9			24								X	X	X	X																								
Y4 12+50	28 RT	0613		94.2																																								
		0613	0612		91.2	91.0																																48						
Y4 13+44	14 LT	0615		93.3																																								
L 62+35	60 LT	0618		97.4																																								
		0618	0617		94.6	91.5			28								X			X	X																							
L 62+35	12 RT	0619		98.9																																								
		0619	0618		95.8	94.6																																72						
L 62+35	60 RT	0621		97.8																																								
		0621	0620		95.0	88.5			36								X			X	X																							
L 53+92	148 RT	0623		92.0																																								
		0623	0609		90.0	84.6																																		128				
L 57+50	93 RT	0624		95.2																																								
		0624	0608		92.2	88.4																																76						
L 58+88	85 LT	0625		91.8																																								
		0625	0601		82.7	82.6								44			X	X	X	X																								
L 63+40	60 RT	0627		80.6																																								
		0627	0626		77.8	77.7			36								X	X	X	X																								
L 62+50	60 LT	0628		97.4																																								
		0628	0618		94.6	94.6																																12						
L 66+50	60 RT	0702		97.1																																								
		0702	0701		94.3	87.9	0.4		32								X			X	X																							
L 68+12	82 RT	0704		86.9																																								
		0704	0703		83.4	83.4	0.6							20			X	X	X	X																								
L 66+93	12 LT	0706		98.6																																								
L 66+80	11 LT	0707		98.2																																								
		0707	0706		93.3	92.7			12								X	X	X	X																								
L 66+50	90 LT	0710		90.5																																								
L 69+82	110 LT	0711		95.0																																								
L 68+45	60 RT	0713		96.5																																								
		0713	0712		93.7	86.6			36								X			X	X																							
L 73+30	0 CL	0715		94.6																																								
		0715	0714		91.9	86.6																																108						
L 77+99	3 LT	0791		93.8																																								
		0791	0792		90.6	90.5																																16						
L 77+83	2 LT	0792		93.8																																								
		0792	0793		90.5	90.1																																124						
					SHEET TOTALS				248					348																									464		128			296	

LINE & STATION / SIZE / THICKNESS OR GAUGE	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	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. 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	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	##" SPRING BOX PIPE	SPRING BOX STD. 840.41	15" ELBOWS	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	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 57+40	1	5.0	1.8																									1									1							
L 57+00	1												1							1																								
L 57+21	1	5.0	5.1																													1					1							
L 56+75	1	3.3																												1							1							
L 53+93	1	1.3												1						1																								
																																												RETAIN EX. 36" RCP
Y4 12+50	1			1			1																																					
Y4 12+50	1			1		1																																						
Y4 13+44	1			1			1																																				48	REMOVE EX. 15" RCP
L 62+35	1												1									1																						
																																						2					107	REMOVE EX. 12" RCP
L 62+35	1							1			1	1																																CONCRETE TRANSITIONAL SECTION
L 62+35	1												1									1																						
																																						2						
L 53+92																																												STUB-PIPE OUT
																																												2 @ 64 EACH
L 57+50	1			1	1																																							
																																											33	REMOVE EX. 12" RCP
L 58+88	1	4.1											1							1																								
																																											62	REMOVE EX. 12" RCP
L 63+40	1												1							1																								
L 62+50	1												1									1																						
L 66+50	1												1									1																						
																																						2						
L 68+12																																									0.8856			
L 66+93	1	0.8																													1						1							
L 66+80	1							1			1	1																																CONCRETE TRANSITIONAL SECTION
																																								2			35	REMOVE EX. 15" RCP; PLUG & FILL EX. 15" RCP
L 66+50	1													1						1																							16	REMOVE EX. 24" RCP
L 69+82																																												STUB-PIPE OUT
L 68+45	1												1									1																						
																																						2						
L 73+30	1												1							1																								
L 77+99	1							1			1	1																																CONCRETE TRANSITIONAL SECTION
L 77+83	1							1			1	1																																CONCRETE TRANSITIONAL SECTION
SHEET TOTALS	23	19.5	6.9	4	1	1	2	4			4	4	3	8						6		5			2		2									8		4	2	0.8856		301	

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