MOORECO

COMPUTED BY: C.MOORE DATE: 9/1/2016

CHECKED BY: S. BONDOR DATE: 9/1/2016

PROJECT NO.	SHEET NO.
U-3440	3D-8

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) 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
L 103+00	53	RT	1114		734.3																								
			1114	1115		729.0	728.7				92							X	X	X	X								
L 103+00	41	LT	1115		734.5																								
			1115	1120		728.6	725.1					224						X	X										
L 103+01	59	LT	1116		735.5																								
			1116	1115		731.3	730.0	1.6															20						
Y10 15+35	58	RT	1117		735.7																								
			1117	1116		731.5	731.3			40																			
Y10 15+35	38	LT	1118		738.8																								
			1118	1117		734.6	731.5			96								X	X	X	X								
L 100+80	41	LT	1120		730.1																								
			1120	1000		725.1	715.8					188						X	X										
L 108+29	53	LT	1121		727.0																								
			1121	1107		722.8	722.5			56								X	X										
L 115+50	41	LT	1201		706.0																								
			1201	1242		701.4	701.1				36							X	X	X	X								
L 115+00	41	LT	1202		706.1																								
			1202	1201		701.8	701.6			52								X	X										
L 116+75	11	LT	1203		707.6																								
			1203	1205		703.4	701.0			56								X	X	X	X								
L 115+50	42	RT	1204		705.8																								
			1204	1205		700.6	700.3					124						X	X										
L 116+72	46	RT	1205		706.4																								
			1205	1236		700.3	699.7	0.4				128						X	X										
L 115+00	41	RT	1206		706.1																								
			1206	1204		701.6	701.2	0.3			52							X	X										
L 114+00	41	RT	1207		707.5																								
			1207	1206		703.3	701.9	0.6		100								X	X										
L 114+01	125	RT	1208		747.2																								
			1208	1207		743.0	703.3	0.5															88						
L 117+76	73	LT	1210		706.3																								
			1210	1209		701.3	695.0					116						X	X	X	X								
L 119+72	68	LT	1211		716.5																								
			1211	1210		711.8	701.3					204																	
L 119+78	49	LT	1212		718.2																								
			1212	1211		713.9	712.6			24																			
L 120+18	99	LT	1213		717.0																								
			1213	1211		712.0	711.8					64																	
L 120+69	121	LT	1214		719.5																								
			1214	1213		715.2	712.7					60																	
Y14 11+58	35	RT	1215		722.5																								
			1215	1214		718.2	715.2				60																		
Y14 10+99	27	RT	1216		725.0																								
			1216	1215		719.2	718.2				60																		
Y14 10+44	19	RT	1217		729.0																								
			1217	1216		726.0	719.2																	56					
Y14 11+20	29	LT	1218		723.6																								
			1218	1216		719.4	719.2			64								X	X	X	X								
Y15 11+49	20	RT	1220		715.6																								
			1220	1221		711.1	710.3				40							X	X	X	X								
								SHEET TOTALS		488	340	1108											108	56					

FROM	TO	R. C. PIPE CLASS III 12	15	18	24	30	R. C. PIPE CLASS IV 12	15	48	54	60	42" WELDED STEEL PIPE 0.1094" THICK GRADE B NOT IN SOIL	42" WELDED STEEL PIPE 0.1094" THICK GRADE B IN SOIL	36" WELDED STEEL PIPE 0.1094" THICK, GRADE B NOT IN SOIL	36" WELDED STEEL PIPE 0.1094" THICK, GRADE B IN SOIL	15" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	DRAINAGE STRUCTURE MASONRY FT	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. DETAIL 2C-10 OR 2C-14	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
1114																			1	0.2		1			1							
1114	1115																															
1115																			1	0.9		1		1								
1115	1120																															
1116																			1												1	1
1116	1115																															
1117																			1												1	1
1117	1116																															
1118																			1												1	1
1118	1117																															
1120																			1			1		1								
1120	1000																															
1121																			1			1			1							
1121	1107																															
1201																			1			1	1									
1201	1242																															
1202																			1			1			1							
1202	1201																															
1203																			1								1					
1203	1205																															
1204																			1	0.1		1	1									
1204	1205																															
1205																			1	1.1		1			1							
1205	1236																															
1206																			1			1		1								
1206	1204																															
1207																			1			1		1								
1207	1206																															
1208																			1										1			
1208	1207																															
1210																			1												1	1
1210	1209																															
1211																			1												1	1
1211	1210																															
1212																			1			1		1								
1212	1211																															
1213																			1													
1213	1211																															
1214																			1												1	1
1214	1213																															
1215																			1												1	1
1215	1214																															
1216																			1	0.8											1	1
1216	1215																															
1217																			1												1	1
1217	1216																															
1218																			1												1	1
1218	1216																															
1220																			1			1		1								
1220	1221																															
SHEET TOTALS																			25	3.1		12	2	6	4		1		1		10	10

FROM	TO	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/ 2 GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ GRATE 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	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	M.H. FRAME AND COVER STD. 840.54	ADJUST MH	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	48" 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
1114																													
1114	1115																												
1115																													
1115	1120																												
1116																													
1116	1115																												
1117																													
1117	1116																												
1118																													
1118	1117																												
1120																													
1120	1000																												
1121																													
1121	1107																												
1201																													
1201	1242																												
1202																													
1202	1201																												
1203						1										1													
1203	1205																												
1204																													
1204	1205																												
1205																													
1205	1236																												
1206																													
1206	1204																												
1207																													
1207	1206																												
1208																													
1208	1207																												
1210																													
1210	1209																												
1211																													
1211	1210																												
1212																													
1212	1211																												
1213		1								1																			
1213	1211																												
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1218																													
1218	1216																												
1220																													
1220	1221																												
SHEET TOTALS		1				1				1						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