MOORECO

COMPUTED BY:	C.MOORE	DATE:	9/1/2016
CHECKED BY:	S. BONDOR	DATE:	9/1/2016

PROJECT NO.	SHEET NO.
U-3440	3D-10

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
L 136+50	41	RT	1308		766.4																
			1308	1319		759.8	756.8	0.5						80				X	X	X	X
L 136+50	55	RT	1309		765.3																
			1309	1308		761.3	761.3				16										
L 138+60	41	RT	1310		774.2																
			1310	1308		767.8	759.8	0.4						208				X	X		
L 138+60	51	RT	1311		773.8																
			1311	1310		769.6	769.5			12											
L 139+11	41	RT	1312		776.6																
			1312	1310		770.6	767.8	0.3						48				X	X		
Y17 11+41	17	RT	1313		775.0																
Y17 10+68	14	RT	1314		771.0																
L 129+11	53	RT	1315		751.4																
			1315	1316		748.4	745.8	0.8													
L 129+11	41	RT	1316		750.0																
			1316	1303		745.8	741.9	0.7		80								X	X		
L 131+92	41	LT	1317		758.5																
			1317	1306		754.3	753.6			244								X	X		
L 136+50	41	LT	1319		766.4																
			1319	1306		756.8	753.0	0.5						216				X	X		
L 131+92	56	RT	1320		758.0																
			1320	1321		755.0	755.0														
L 131+92	39	RT	1321		758.5																
			1321	1317		755.0	754.3			80								X	X	X	X
L 139+11	51	RT	1322		777.0																
			1322	1312		772.8	772.7			12											
L 139+85	51	RT	1323		780.7																
			1323	1324		776.4	775.7			12											
L 139+85	41	RT	1324		779.9																
			1324	1312		773.9	770.6	0.3						72				X	X		
DR2 11+83	81	LT	1400		816.0																
			1400	1422		812.0	809.5			64											
L 140+73	41	RT	1401		783.8																
			1401	1324		774.6	773.9	0.3						88				X	X		
L 140+69	41	LT	1402		783.6																
			1402	1401		776.5	776.1				80							X	X	X	X
L 140+70	55	LT	1403		781.0																
			1403	1402		776.5	776.5				16										
L 143+47	40	RT	1404		795.8																
			1404	1418		790.8	787.2	1.8				76						X	X		
Y19 10+93	21	RT	1405		796.0																
			1405	1404		791.8	791.5			68											
Y18 11+72	13	RT	1406		798.8																
			1406	1404		794.6	791.5			108								X	X	X	X
Y18 11+21	13	RT	1407		800.2																
			1407	1406		796.0	794.6			52								X	X		
Y18 11+15	13	LT	1408		800.5																
			1408	1407		796.3	796.0			28								X	X	X	X
L 144+77	56	RT	1409		801.1																
			1409	1404		794.4	790.8	1.6				128						X	X	X	X
								SHEET TOTALS		760	112	204		712							

FROM	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	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
1314																									0.700	
1315	1316	12																								
1320	1321	16																								
SHEET TOTALS		28																							0.700	

STRUCTURE	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
1308	1	1.6		1		1							
1309	1											1	1
1310	1	1.4		1			1						
1311	1											1	1
1312	1	0.9		1			1						
1313	1											1	1
1315	1											1	1
1316	1			1			1						
1317	1			1			1						
1319	1	4.6		1		1							
1320	1											1	1
1321	1			1			1						
1322	1											1	1
1323	1											1	1
1324	1	1.0		1			1						
1400	1											1	1
1401	1	4.1		1			1						
1402	1	2.2		1		1							
1403	1									1			
1404	1			1			1						
1405	1											1	1
1406	1			1		1							
1407	1			1			1						
1408	1			1			1						
1409	1	1.7		1			1						
SHEET TOTALS	25	17.5		15		4	11			1		9	9

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

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