RD248621

COMPUTED BY: EGH DATE: 10/24/2014

CHECKED BY: SNM DATE: 10/27/2014

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2915A	3D-8

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)

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.)	(NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

LINE & STATION	LOCATION (LT, RT, OR CL)'	STRUCTURE NUMBER		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC)								DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE								R.C. PIPE CLASS III								R.C. PIPE CLASS IV								** " R.C. PIPE (CLASS V)	15" RC PIPE CULVERTS, CONTRACTOR DESIGN	18" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS		QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')			C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03			CONCRETE TRANSITIONAL SECTION		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH TWO GRATES STD. 840.20 WIDE/FLAT	G.D.I. FRAME WITH TWO GRATES STD. 840.22 WIDE/SAG	G.D.I. FRAME WITH TWO GRATES STD. 840.29 NARROW/FLAT	G.D.I. FRAME WITH TWO GRATES STD. 840.24 NARROW/SAG	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	MANHOLE FRAME AND COVER STD. 840.54	BERM DRAINAGE OUTLET (BDO) STD. 850.10	BERM DRAINAGE OUTLET (BDO) STD. 850.11	CONCRETE MEDIAN DI TYPE-A, EXTRA DEPTH (SEE DETAIL 2C-7)	FLOWABLE FILL (C.Y.)	15" SIDE DRAIN PIPE ELBOWS	18" SIDE DRAIN PIPE ELBOWS NO. & SIZE	24" SIDE DRAIN PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PSH (PREFORMED SCOUR HOLE (QTY. EACH)	PIPE REMOVAL LIN. FT.	15" PIPE END SECTION	18" PIPE END SECTION	REMARKS
SIZE								12	15	18	24	30	36	42	48					12	15	18	24	30	36	42	48	12	15	18	24	30	36	42	48	12	15	18	24	30	36	42	48						R.C.P.	C.S.P.	PER EACH (0' THRU 5.0')	LIN.FT. A 5.0' THRU 10.0'	LIN.FT. B 10.0' AND ABOVE		TYPE OF GRATE E	F	G	DROP INLET STD. 852.04 OR 852.06	CATCH BASIN STD. 852.05																										
THICKNESS OR GAUGE		FROM	TO	FT.	FT.	FT.	%													0.064	0.064	0.064	0.064	0.079	0.079	0.109	0.109																																																										
L 120+18	LT	1220	OUT		2933.30	2928.90			32																																																																														
L 120+63	CL																																																																															77			REMOVE 48" RCP
L 120+63	CL	1202		2940.70																																															1	5.00	8.38																	1			1														SEE SPECIAL DETAIL 2C-5
		1202	1201		2922.32	2922.00																													64																																																		
L 120+74	RT	1203		2938.70																																															1	5.00	3.70														1									1										
		1203	1202		2925.00	2923.70																													60																																																		
L 120+74	LT	1201		2927.50																																													6.0																																						STD. 838.01
L 123+15	RT	1207		2931.70																																															1													1		1																							
		1207	1206		2928.95	2926.20																								60																																																											
L 123+14	RT																																																																																77			REMOVE 18" RCP & DI
L 123+14	RT																																																																																59			REMOVE 15" CMP
L 123+68	CL	1205		2931.40																																															1	5.00	2.70													1						1														TB 2GI
		1205	1204		2918.70	2917.60																									76																																																								
L 123+68	RT	1206		2930.10																																															1																				1			1														
		1206	1205		2925.95	2924.50																									56																																																							
L 123+71	RT																																																																																38			REMOVE 12" HDPE
L 123+90	RT	1208	1206		2931.50	2926.45			52																																																																													
L 124+85	LT	1209		2928.83																																															1															1						1														TB 2GI
		1209	1210		2925.80	2924.30																								108																																																										
L 125+93	LT	1210		2927.31																																															1	4.31															1						1														TB 2GI
		1210	1211		2918.00	2917.60																								84																																																										
L 125+94	RT	1221	OUT		2924.90	2924.20			40																																																																													
L 125+95	RT	1221																																																																																	1		
L 128+77	RT	1213		2924.00																																															1	5.00	0.20																				1		1												
		1213	1212		2913.80	2912.30																										100																																																						
L 128+30	RT	1214		2924.75																																															1							1		1	1																											
		1214	1213		2921.50	2920.30																								48																																																										
L 128+20	RT	1215		2921.05																																															1													1					1																		
		1215	1213		2918.10	2917.70																										80																																																					
L 128+20	RT	1216		2926.30																																															1																				1			1														
		1216	1215		2921.80	2918.30																								40																																																										
L 127+83	RT																																																																																	118			REMOVE 15" HDPE
L 128+70	RT																																																																																	65			REMOVE 24" RCP & DI
L 129+12	LT																																																																																	52			REMOVE 15" RCP
L 129+60	LT	1222	OUT		2909.90	2908.98																										36																																																						
L 130+50	RT	1217		2915.22																																															1													1					1																		
		1217	1305		2912.47	2910.55																								192																																																												
L 130+50	RT	1218		2981.60																																																																									1												15" BERM DITCH OUTLET PIPE
		1218	1217		2979.75	2912.73			116							X																																																															2								
L 132+00	RT	1302		2919.00																																															1	0.28															1						1														TB 2GI
		1302	1301		2913.72	2913.10																								64																																																										
L 132+05	LT																																																																																1.0	44			CONSTRUCT PSH & REMOVE 18" RCP
L 132+50	RT	1305		2913.30																																															1													1					1																		
		1305	1304		2910.30	2908.20																									144																																																							
L 132+50	RT	1306		2969.80																																																																									1												18" BERM DITCH OUTLET PIPE
		1306	1305		2967.75	2910.50				120						X																																																															2							
L 135+55	RT	1307		2911.97																																															1											1						1																		
		1307	1304		2907.22	2906.47																										152																																																					
L 134+00	RT	1304		2912.42																																															1	1.45										1						1																		
		1304	1303		2905.97	2905.38																											120																																																					
						SHEET TOTAL			240	120																			596	276	368	120			124														6.0		16	26.0	15.0					1		1	1	2	4		5	1		5	3	1	4	4	2		1		2	2			1	530	1		