COMPUTED BY:	GSBLELL	DATE:	3/29/2012
CHECKED BY:	AJFOSTER	DATE:	4/7/2014

RD266410

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2519B	3D-14

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

STATION (SIZE / THICKNESS OR GAUGE)	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	SIDE DRAIN 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
SHEET 24																			
-L- STA. 288+99	LT	2401		2741.52															
-L- STA. 288+99	CL	2423		2746.73															
-L- STA. 288+99	LT	2423	2401		2742.13	2738.72													
-L- STA. 289+50.83	RT																		
-L- STA. 291+14.86	LT	2404		2736.33															
-L- STA. 290+06.94	LT	2401	2404		2738.72	2733.58			204'										
-Y24- STA. 11+50	RT	2402		2774.26															
-Y24- STA. 13+25	RT	2403		2740.26															
-Y24- STA. 12+36.18	RT	2402	2403		2771.46	2737.46													
-Y24- STA. 13+52.70	RT	2403	2404		2737.46	2733.58			68'										
-L- STA. 291+74.86	LT	2405		2734.45															
-L- STA. 291+44.91	LT	2404	2405		2733.33	2731.45													
-L- STA. 291+75	CL	2406		2739.75															
-L- STA. 291+75	LT	2406	2405		2735.15	2731.70													
-L- STA. 293+65	LT	2408		2727.56															
-L- STA. 292+70.70	LT	2405	2408		2729.70	2722.81					184'								
-L- STA. 293+65	CL	2407		2731.17															
-L- STA. 293+65	LT	2407	2408		2726.93	2723.81													
-L- STA. 295+50	LT	2409		2719.68															
-L- STA. 294+57.75	LT	2408	2409		2722.81	2714.93					184'								
-L- STA. 297+50	LT	2410		2712.07															
-L- STA. 296+50.67	LT	2409	2410		2714.93	2707.32					200'								
-L- STA. 297+50	LT	2411		2764.12															
-L- STA. 297+50	LT	2411	2410		2761.20	2708.32													
-L- STA. 297+50	CL	2424		2714.04															
-L- STA. 296+00	LT	2424	2410		2709.68	2708.32													
-L- STA. 296+00	RT	2413		2719.71															
-L- STA. 297+50	RT	2412		2712.51															
-L- STA. 296+74.7	RT	2413	2412		2715.96	2708.76			148'										
-L- STA. 297+50	RT	2412	2424		2708.76	2709.68													
-L- STA. 299+60	CL	2418		2706.03															
-L- STA. 299+60	LT	2414		2704.78															
-L- STA. 299+60	LT	2418	2414		2702.28	2700.73													
-L- STA. 300+00	LT	2415		2704.17															
-L- STA. 298+55.59	LT	2410	2414		2707.32	2699.98					216'								
-L- STA. 299+80.52	LT	2414	2415		2699.48	2698.87						40'							
-L- STA. 301+00	LT	2416		2680.12															
-L- STA. 300+50.58	LT	2415	2416		2698.87	2674.82													
-L- STA. 301+49	LT	2419		2671.01															
-L- STA. 301+24.62	LT	2416	2419		2674.82	2667.08													
-L- STA. 301+00	RT	2417		2699.21															
SHEET 25																			
-L- STA. 301+83.34	RT	2507		2685.86															
-L- STA. 301+42.83	RT	2507	2420		2683.06	2650.23													
-L- STA. 301+41.87	RT	2417	2507		2696.41	2683.06													
-L- STA. 301+72	LT	2520		2664.67															
-L- STA. 302+00	LT	2521		2641.90															
-L- STA. 301+57.79	LT	2520	2422		2654.67	2664.67													
-L- STA. 301+86.03	LT	2520	2521		2654.67	2635.79													
-L- STA. 302+28	LT	2521	2519		2634.04	2631.00							56'						
-L- STA. 301+75.89	LT	2419	2521		2667.08	2634.54													
-L- STA. 301+80	CL	2506		2699.50															
-L- STA. 301+80	RT	2506	2507		2696.30	2683.06													
SHEET TOTALS									420'		784'	40'	56'						

STATION	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"	36 " R.C. PIPE (CLASS V)	42 " R.C. PIPE (CLASS V)	30" WELDED PIPE, .500" THICK, GRADE B	36" WELDED PIPE, .500" THICK, GRADE B	42" WELDED PIPE, .625" THICK, GRADE B	48" WELDED PIPE, .625" THICK, GRADE B	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.
SHEET 24																																
-L- STA. 288+99																																
-L- STA. 288+99																																
-L- STA. 288+99																		68'														
-L- STA. 289+50.83																																
-L- STA. 291+14.86																																
-L- STA. 290+06.94																																
-Y24- STA. 11+50																																
-Y24- STA. 13+25																																
-Y24- STA. 12+36.18		176'																														
-Y24- STA. 13+52.70																																
-L- STA. 291+74.86																																
-L- STA. 291+44.91											56'																					
-L- STA. 291+75																																
-L- STA. 291+75																		68'														
-L- STA. 293+65																																
-L- STA. 292+70.70																																
-L- STA. 293+65																																
-L- STA. 293+65																		68'														
-L- STA. 295+50																																
-L- STA. 294+57.75																																
-L- STA. 297+50																																
-L- STA. 296+50.67																																
-L- STA. 297+50																																
-L- STA. 297+50		116'																														
-L- STA. 297+50																																
-L- STA. 296+00																		48'														
-L- STA. 296+00																																
-L- STA. 297+50																																
-L- STA. 296+74.7																																
-L- STA. 297+50																		48'														
-L- STA. 299+60																																
-L- STA. 299+60																																
-L- STA. 299+60																		48'														
-L- STA. 300+00																																
-L- STA. 298+55.59																																
-L- STA. 299+80.52																																
-L- STA. 301+00																																
-L- STA. 300+50.58					116'																											
-L- STA. 301+49																																
-L- STA. 301+24.62					52'																											
-L- STA. 301+00																																
SHEET 25																																
-L- STA. 301+83.34																																
-L- STA. 301+42.83		88'																														
-L- STA. 301+41.87		84'																														
-L- STA. 301+72																																
-L- STA. 302+00																																
-L- STA. 301+57.79																		32'														
-L- STA. 301+86.03		32'																														
-L- STA. 302+28																																
-L- STA. 301+75.89					100'																											
-L- STA. 301+80																																
-L- STA. 301+80		72'																														
SHEET TOTALS		568'			268'						56'							380'														

STATION	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	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	SPRING BOX STD. 840.41	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	T.B.G.D.I. STD. 840.35	T.B.J.B. STD. 840.34	J.B. STD. 840.31 OR 840.32	PARALLEL PIPE END SECTION STD. 310.02 OR 310.04	M. H. FRAME AND COVER STD. 840.54	OT CATCH BASIN OR STD. 840D04 (SHEET 2C-10)	PREFORMED SCOUR HOLE	FLOWABLE FILL	J.B. STD. 840.52	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	CS PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
SHEET 24																																
-L- STA. 288+99	1												1			1																
-L- STA. 288+99	1			1			1		1																							
-L- STA. 288+99																																
-L- STA. 289+50.83																									7							PLUG & FILL EXIST. 24" CM PIPE
-L- STA. 291+14.86	1												1			1																
-L- STA. 290+06.94																																
-Y24- STA. 11+50	1												1			1																
-Y24- STA. 13+25	1												1			1																
-Y24- STA. 12+36.18																																
-Y24- STA. 13+52.70																																
-L- STA. 291+74.86	1												1			1																
-L- STA. 291+44.91																															58	REMOVE EXIST. 12" CM PIPE
-L- STA. 291+75	1			1			1		1																							
-L- STA. 291+75																																
-L- STA. 293+65	1												1			1																
-L- STA. 292+70.70																																
-L- STA. 293+65	1			1			1		1																							
-L- STA. 293+65																																
-L- STA. 295+50	1												1			1																
-L- STA. 294+57.75																																
-L- STA. 297+50	1												1			1																
-L- STA. 296+50.67																																
-L- STA. 297+50	1																						1									
-L- STA. 297+50																												2@15"				
-L- STA. 297+50	1			1		1			1																							
-L- STA. 296+00																																
-L- STA. 296+00	1												1				1															
-L- STA. 297+50	1												1				1															
-L- STA. 296+74.7																																
-L- STA. 297+50																																
-L- STA. 299+60	1			1		1			1																							
-L- STA. 299+60	1	0.3											1			1																
-L- STA. 299+60																																
-L- STA. 300+00	1	0.3										1				1																
-L- STA. 298+55.59																																
-L- STA. 299+80.52																																
-L- STA. 301+00	1	0.3										1				1																
-L- STA. 300+50.58																															22	REMOVE EXIST. 15" CM PIPE
-L- STA. 301+49	1											1				1																
-L- STA. 301+24.62																																
-L- STA. 301+00	1												1				1															
SHEET 25																																
-L- STA. 301+83.34	1																1	1														
-L- STA. 301+42.83																												2@15"				
-L- STA. 301+41.87																																
-L- STA. 301+72	1	5											1			1																
-L- STA. 302+00	1	2.86											1			1																
-L- STA. 301+57.79																																
-L- STA. 301+86.03																												2@15"				
-L- STA. 302+28																																
-L- STA. 301+75.89																												2@30"				
-L- STA. 301+80	1							1		1	1																					
-L- STA. 301+80																																
SHEET TOTALS	25	8.76		5		2	3	1		1	1	3	14			14	4	1					1		7			6@15",2@30"			80	