RAL-SCG548309L

COMPUTED BY:	KYLE STOFFER	DATE:	9/15/2016
CHECKED BY:	ALEX SNIDER, PE	DATE:	10/04/2016

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-5311A	3D-1

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 %	Drainage Pipe (RCP, 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
Y1 23+89	15 RT	0506		83.1																
		0506	0507		79.9	79.7														
Y1 23+89	13 LT	0507		83.1																
		0507	0508		79.7	51.2			80							X	X			
Y1 13+69	27 LT	1201			53.0				36								X			
Y1 15+28	37 LT	1202			52.7				28								X			
Y1 17+23	54 LT	1203			53.3				48								X			
DR1 10+56	35 LT	1204		53.7																
		1204	1205		51.3	51.2				76							X			
Y1 24+35	87 RT	0512		53.3																
		0512	0514		51.3	51.2														
Y1 25+89	78 LT	0517		53.9																
		0517	0515		51.9	51.4														
Y1 26+36	14 RT	0509		82.5																
		0509	0510		79.3	79.1														
Y1 26+36	14 LT	0510		82.5																
		0510	0511		79.1	51.8			80							X	X			
Y1 33+66	46 LT	1301			51.2					40							X			
Y1 33+89	23 LT	1304		52.7																
		1304	1305		51.3	51.2				32							X			
Y1 33+50	25 RT	1303		51.4																
		1302	1303		51.4	51.4				20							X			
Y1 34+30	41 LT	1306			51.3					44							X			
Y1 36+00	34 LT	1307			51.5					36							X			
EL 309+98	47 RT	0520		53.6							4						X			
Y2 36+71	38 RT	1407			48.7						48						X			
Y2 36+76	56 LT	1406			48.0				28								X			
Y2RPD 10+73	37 RT	0905		48.9																
		0905	0955		46.9	46.7	0.3													
Y2RPB 10+52	45 RT	0906		49.1																
		0906	0954		47.2	46.8														
Y2 44+99	28 LT	0909		72.0																
		0909	0910		68.8	46.6			88							X	X			
Y2 49+19	25 RT	0911		79.4																
		0911	0912		76.2	75.9														
Y2 49+19	25 LT	0912		79.4																
		0912	0913		75.9	46.2			112							X	X			
Y2 51+96	23 LT	0914		79.2																
		0914	0915		75.9	75.6														
Y2 52+07	25 RT	0915		79.1																
		0915	0916		75.6	44.9			116							X	X			
Y2 56+10	29 RT	0917		71.2																
		0917	0918		68.0	44.5			92							X	X			
Y2LPB 20+95	133 LT	0952		48.7																
		0952	0949		46.7	45.9														
Y2LPB 21+21	9 LT	0919		72.0																
		0919	0921		68.8	47.4			128							X	X			
Y2LPD 20+17	9 LT	0922		70.2																
		0922	0924		67.0	48.0			120							X	X			
Y2LPD 15+45	14 RT	0925		55.2																
SHEET TOTALS									956	248	52									

| LINE & STATION / SIZE / THICKNESS OR GAUGE | C. S. PIPE 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | 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 | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | 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 | M.H. STD. 840.51, STD. 840.52, OR STD. 840.53 | M.H. FRAME AND COVER STD. 840.54 | 15" C.S. ELBOW | 18" C.S. ELBOW | 24" C.S. ELBOW | 30" C.S. ELBOW | 36" C.S. ELBOW | FLOWABLE FILL CY | CONCRETE COLLARS CL. "B" STD. 840.72 CY | PIPE REMOVAL LIN. FT. | REMARKS |
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