MOORECO

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

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

PROJECT NO.	SHEET NO.
U-3440	3D-1

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	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) SIZE: 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
								THICKNESS OR GAUGE												
L 12+92	43 LT	0401		825.5																
		0401	0400		821.7	821.3			32											
L 14+50	43 LT	0402		826.8																
		0402	0401		822.6	821.7			160									X	X	
L 12+92	10 RT	0403		826.5																
		0403	0401		823.9	821.7														
L 14+51	71 LT	0404		829.2																
		0404	0402		824.9	822.6			32											
Y2 10+89	16 RT	0406		824.1																
		0406	0405		820.4	820.3			32											
Y2 10+89	16 LT	0407		823.9																
		0407	0406		820.5	820.4														
L 17+02	10 RT	0408		826.6																
		0408	0406		823.3	820.4														
L 20+00	63 LT	0409		819.5																
		0409	0410		813.5	811.7			24											
L 20+00	41 LT	0410		816.7																
		0410	0500		811.7	794.4	0.9		304									X	X	
L 23+00	41 LT	0500		798.9																
		0500	0514		793.6	768.2	0.3				436							X	X	
L 23+00	41 RT	0501		798.9																
		0501	0500		793.9	793.6					84							X	X	X
L 29+14	41 LT	0502		765.0																
		0502	0507		756.7	748.9	0.5						236					X	X	
L 29+13	41 RT	0503		765.0																
		0503	0508		760.8	758.6	0.6		52									X	X	X
L 32+22	51 RT	0504		751.2																
		0504	0505		746.9	744.8	0.3		56									X	X	
L 32+74	41 RT	0505		749.0																
		0505	0506		744.5	744.2					84							X	X	X
		0506	0604		742.7	723.2	0.6						424					X	X	
L 32+74	41 LT	0506		749.0																
L 31+49	41 LT	0507		754.9																
		0507	0506		748.9	742.7	0.5						128					X	X	
L 29+14	9 LT	0508		765.8																
		0508	0502		758.3	758.2					32							X	X	X
L 29+51	8 LT	0509		764.2																
		0509	0508		758.7	758.6			40									X	X	X
L 29+81	8 RT	0510		763.0																
		0510	0509		758.8	758.7			36									X	X	X
L 31+49	9 LT	0511		755.6																
		0511	0507		751.4	750.7			32									X	X	X
L 23+00	57 RT	0512		798.5																
		0512	0501		795.5	794.6	0.3		20											
L 27+32	64 RT	0513	0514		770.0	767.2							104					X	X	X
L 27+32	41 LT	0514		773.8																
		0514	0502		767.2	756.7	0.4						184					X	X	
Y3 11+22	17 RT	0516		760.2																
		0516	0515		757.2	757.0			24											
L 39+49	41 LT	0601		719.4																
				SHEET TOTALS					844	116	520		1076							

| C. S. PIPE 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | R. C. PIPE CLASS III 12 | 15 | 18 | 24 | 30 | R. C. PIPE CLASS IV 12 | 15 | 48 | 54 | 60 | 42" WELDED STEEL PIPE 0.104" THICK GRADE B NOT IN SOIL | 42" WELDED STEEL PIPE 0.104" THICK GRADE B IN SOIL | 36" WELDED STEEL PIPE 0.104" THICK, GRADE B NOT IN SOIL | 36" WELDED STEEL PIPE 0.104" THICK, GRADE B IN SOIL | 15" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) | DRAINAGE STRUCTURE MASONRY | QUANTITIES FOR DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B) A | B | 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 | 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 GRATES 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 | CONCRETE COLLARS CL. "B" STD. 840.72 | CONCRETE AND BRICK PIPE PLUG STD. 840.71 | PIPE REMOVAL | REMARKS |
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