6/20/00

COMPUTED BY: D.M.W. DATE: 9/2004
CHECKED BY: W.C.B. DATE: 12/2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.: R-2552C — SHEET NO.: 3-E

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200 mm & UNDER)

ABBREVIATIONS

- C.B. CATCH BASIN
- N.D.I. NARROW DROP INLET
- D.I. DROP INLET
- M.D.I. MEDIAN DROP INLET
- M.D.I. (N.S.) MEDIAN DROP INLET (NARROW SLOT)
- J.B. JUNCTION BOX
- M.H. MANHOLE
- T.B.D.I. TRAFFIC BEARING DROP INLET
- T.B.J.B. TRAFFIC BEARING JUCTION BOX
- O.T.C.B. OPEN THROATED CATCH BASIN

STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 300	375	450	600	750	900	1050	1200	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 (1.63)	400 (1.63)	450 (1.63)	600 (1.63)	800 (2.01)	900 (2.01)	1000 (2.01)	1200 (2.01)	C.S. PLAIN PIPE 400 (1.63)	450 (1.63)	BITUMINOUS COATED C.S. PIPE TYPE A 400 (1.63)	450 (1.63)	600 (1.63)	800 (2.01)	900 (2.01)	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) R.C.P. (CM)	C.S.P. (CM)
Y4 16+62	RT	155	157		87.25	87.55					52.8 (CL IV)																								
Y4 16+08	RT	157		89.1	87.55																														
Y4 16+08	RT	157	158		87.55	87.9					110.4																								
Y4 14+96	RT	158		90.2	87.9																														
Y4 14+96	RT	158	159		87.9	88					22.8																								
RAMP B 0+80	RT	159		89.32	88																														
RAMP B 0+80	RT	159	160		88	88.2			33.6																										
RAMP B 1+26	RT	160		89.01	88.2																														
Y4 16+20	CL	161		90.19	89.38																														
Y4 16+20	CL	161	162		89.38	88.96			54.0																										
Y4 15+64	CL	162		90.34	88.96																														
RAMP A 10+07	LT	163	164		86.5	86.72			34.8																										
RAMP A 10+18	RT	164		87.3	86.74																														
FLY 10+02.5	RT	165	166		85.2	85.5						68.4 (CL IV)																							
FLY 10+42	RT	167	168		84.68	96.48																				30.0									
FLY 10+42	RT	168		97.29	96.48																														
Y5 16+31	LT	169	170		–	–																											7.2		
Y3 16+63	LT	171	172		84.2	84.016			2.4																										
Y3 16+63	LT	172		84.99	84.016																														
Y3 16+63	RT	173	174		83.921	83.9						10.8																							
Y3 16+98	LT	175	176		–	–																									8.4				
Y3 17+56	LT	177	178		–	–																									8.4				
L2 142+40	CL	179		87.66	86.85																														
L2 142+40	CL	179	180		86.85	86.08			34.8																										
L2 144+60	CL	181		83.65	82.84																														
L2 144+60	CL	181	182		82.84	81			33.6																										
Y4 19+41	RT	183	184		82.60	82.87						21.6																							
Y4 18+70	CL	185		86.33	85.49																														
Y4 18+70	CL	185	186		85.49	84.93			63.2																										
Y4 19+35	CL	186		86.02	82.9																														
Y4 19+35	CL	186	187		84.93	85.39			43.2																										
Y4 19+80	CL	187		86.2	85.39																														
Y4 19+45	RT	188	186		82.6	82.9						37.2																							
Y4 19+35	CL	186	189		82.9	83.173						30.0																							
Y4 21+53	RT	190	191		84.64	86.94																				14.4									
Y4 21+53	RT	191		87.75	86.94																														
FLY 11+42	RT	192	193		83.5	95.13																				25.2									
FLY 11+42	RT	193		95.94	95.13																														
FLY 11+45	RT	194	195		83.5	83.91					64.8 (CL IV)																								
RAMP A 8+10	LT	195		84.72	83.91																														
RAMP A 8+10	LT	195	196		83.91	84.47					21.6																								
RAMP A 8+10	RT	196		85.54	84.47																														
RAMP A 8+10	RT	196	197		84.47	85.02					18.0																								
Y5 17+05	RT	197		86.09	85.02																														
Y5 17+05	RT	197	198		85.02	86.45					15.6																								
FLY 12+48	RT	199	200		83.15	92.72																				25.2									
FLY 12+46	RT	200		93.53	92.72																														
Y5 17+96	LT	201	202		–	–																									8.4				
FLY 12+86	RT	203	204		83	82.1					58.8 (CL IV)																								
RAMP A 6+56	LT	205	206		82	81.85						38.4																							
SHEET TOTAL									299.6		188.4	138.0														94.8					25.2		7.2		

STATION	QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50)	METERS A 1.50 THRU 3.00 (FOR DRAINAGE *TOTAL M FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B'))	METERS B 3.00 AND ABOVE	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	B.A.D.I. (SEE SHEET 2-P)	T.B.D.I. STD. 840.36	T.B.D.I. FRAME WITH STEEL GRATE STD. 840.37	M.D.I. TYPE "A" STD. 840.17 OR 840.26	M.D.I. TYPE "B" STD. 840.18 OR 840.27	M.D.I. TYPE "D" STD. 840.19 OR 840.28	M.D.I. FRAME WITH TWO FLAT GRATES STD. 840.20	M.D.I. FRAME WITH SAG GRATE STD. 840.22	M.D.I. FRAME WITH TWO SAG GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH SAG GRATE STD. 840.24	M.D.I. (N.S.) FRAME WITH TWO SAG GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	C.B. STD. 840.01 OR 840.02	O.T.C.B. STD. 840.04 OR 840.05	M.H. STD. 840.51, 840.52 OR 840.53	M.H. FRAME AND COVER STD. 840.54	T.B.J.B. STD. 840.34	800 x 800 x 800mm PERF. C.S.P. TEE RISER 2.01mm THICK	CONVERT EXISTING D.I. OR C.B. TO J.B. (SEE SHEET 2-AC)	375mm BORE AND JACK SPIRAL WELDED STEEL (7mm THICK)	450mm BORE AND JACK SPIRAL WELDED STEEL (8mm THICK)	600mm BORE AND JACK SPIRAL WELDED STEEL (13mm THICK)	ADJUST EXISTING 2GI	MODIFIED CONCRETE FLUME (SEE SHEET 2-AA)	PREFORMED SCOUR HOLE (SEE REMARKS)	C.S. ELBOWS NO.	C.S. ELBOWS SIZE	CONC. COLLARS CL. "B" M3 STD. 840.72	CONC. & BRICK PIPE PLUG, M3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
Y4 16+62																																							METHOD "B" INSTALLATION*
Y4 16+08	1	0.05										1					1																						
Y4 16+08																																							
Y4 14+96	1	0.8										1					1																						
Y4 14+96																																							
RAMP B 0+80	1											1				1	1																						3 GI
RAMP B 0+80																																							
RAMP B 1+26	1												1				1																						
Y4 16+20	1												1				1																						
Y4 16+20																																							
Y4 15+64	1												1				1																						TIE INTO EXIST. SYST.; REMOVE EXIST. 2GI*
RAMP A 10+07																																							
RAMP A 10+18	1													1			1																						
FLY 10+02.5																																							METHOD "B" INSTALLATION*
FLY 10+42																																		2	400				
FLY 10+42	1												1		1																								
Y5 16+31																																							
Y3 16+63																																				0.29			TIE INTO EXISTING SYSTEM*
Y3 16+63	1													1					1																				TIE INTO EXISTING SYSTEM*
Y3 16+63																																				0.48			TIE INTO EXISTING SYSTEM*
Y3 16+98																																							
Y3 17+56																																						7.2	
L2 142+40	1												1				1																						
L2 142+40																																							
L2 144+60	1												1				1																						
L2 144+60																																							
Y4 19+41																																				0.48			
Y4 18+70	1												1				1																						
Y4 18+70																																							
Y4 19+35	1	1.5	0.12										1				1																						
Y4 19+35																																							
Y4 19+80	1												1				1																						
Y4 19+45																																							
Y4 19+35																																							
Y4 21+53																																		2	400				
Y4 21+53	1												1		1																								
FLY 11+42																																		2	400				
FLY 11+42	1												1		1																								
FLY 11+45																																							METHOD "B" INSTALLATION*
RAMP A 8+10	1													1			1																						
RAMP A 8+10																																							
RAMP A 8+10	1												1				1																						
RAMP A 8+10																																							
Y5 17+05	1												1				1																						
Y5 17+05																																							
FLY 12+48																																		2	400				
FLY 12+46	1												1		1																								
Y5 17+96																																							
FLY 12+86																																							METHOD "B" INSTALLATION*
RAMP A 6+56																																							
SHEET TOTAL	20	2.35	0.12									3	14	3	4	1	15		1															8	400	1.25		7.2	

17-MAR-2005 09:51 R2552C_RDY_PSH03A-M (SUM).dgn AT WSRAL-NEMO