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.	SHEET NO.
R-2552C	3-H

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

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)
Y4 9+56	LT	307		90.67	88.8																		
Y4 9+56	LT	307	308		88.8	88.5																	
Y4 11+19	LT	309		89.62	89.06																		
Y4 11+19	LT	309	312		89.06	89																	
Y4 11+19	RT	312		90.32	89																		
Y4 10+44	CL	310		90.37	89.56																		
Y4 10+44	LT	310	311		89.56	89.4			44.4														
Y4 10+90	RT	311		90.28	89.4																		
Y4 10+90	RT	311	312		89.4	89			27.6														
Y4 11+19	RT	312	314		89	88.92																	
Y4 11+19	RT	314		90.45	88.92																		
Y4 10+38	RT	313		89.77	89.21																		
Y4 10+38	RT	313	314		89.21	88.92			79.2														
Y4 11+19	RT	314	315		88.92	88.88						8.4											
Y4 11+19	RT	314	316		88.92	89.05				50.4													
Y4 11+70	RT	316		89.86	89.05																		
Y4 11+70	RT	316	317		89.05	89.57			102.0														
Y4 12+74	RT	317		90.38	89.57																		
Y5 DET 10+75	RT	318	319		89.5	89.6																	
Y5 12+67	RT	320	321		88.75	88.566					9.6												
Y5 12+85	LT	322	323		88.525	88.5					4.8												
Y5 12+74	RT	324	325		–	–																	
Y4 12+40	CL	326		90.67	89.86																		
Y4 12+40	CL	326	327		89.86	89.33			93.6														
Y4 13+34	CL	327		91.13	89.33																		
Y4 13+35	LT	328	329		88.942	88.9				10.8													
Y4 13+34	CL	327	330		89.33	89.64			1.2														
Y4 13+36	LT	329A	329B		88.9	89.38			6														
Y4 13+34	RT	331		91.66	90.063																		
Y4 13+34	RT	331	332		90.063	90.14			10.8														
Y4 13+42	RT	332		90.7	90.14																		
Y6 11+54	RT	333	334		87.2	87.1						26.4											
Y6 12+08	RT	335	336		87.2	86.7					27.6												
Y6 14+40	RT	337			–	–																	
Y6 14+95	LT	340	341		–	–																	
Y4 6+29	RT	342	343		–	–																	
Y4 30+18.5	LT	344		80.86	80.05																		
Y4 30+18.5	LT	344	345		80.05	79.449			2.4														
Y4 30+19.5	CL	345		80.272	79.449																		
Y7 10+42	LT	346		80.2	79.29																		
Y7 10+42	LT	346	347		79.29	79.2			24.0														
Y7 10+89	LT	348	349		–	–			7.2														
Y7 10+80	RT	350		79.5	78.9																		
Y7 10+80	RT	350	351		78.9	78.8			9.6														
Y4 30+64	RT	352		79.15	78.34																		
Y4 30+64	RT	352	353		78.34	77.39			21.6														
Y4 30+87	RT	353		78.99	77.39																		
Y4 30+87	RT	353	354		77.39	76.15						112.8											
Y4 32+02	RT	354		77.75	76.15																		
Y4 32+02	RT	354	355		76.15	73.4						169.2											
SHEET TOTAL									429.6	61.2	42.0	316.8											

STATION	C.S. PLAIN PIPE 400 (1.63)	C.S. PLAIN PIPE 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)	QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50)	FOR DRAINAGE *TOTAL M FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') METERS A 1.50 THRU 3.00	B 3.00 AND ABOVE	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G
Y4 9+56													1	0.37				
Y4 9+56																		
Y4 11+19													1					
Y4 11+19																		
Y4 11+19													1					
Y4 10+44													1					
Y4 10+44																		
Y4 10+90													1					
Y4 10+90																		
Y4 11+19																		
Y4 11+19													1	0.03				
Y4 10+38													1					
Y4 10+38																		
Y4 11+19																		
Y4 11+19																		
Y4 11+70													1					
Y4 11+70																		
Y4 12+74													1					
Y5 DET 10+75	14.4																	
Y5 12+67																		
Y5 12+85																		
Y5 12+74								14.4										
Y4 12+40													1					
Y4 12+40																		
Y4 13+34													1	0.5				
Y4 13+35																		
Y4 13+34																		
Y4 13+36																		
Y4 13+34													1	0.1				
Y4 13+34																		
Y4 13+42													1					
Y6 11+54																		
Y6 12+08																		
Y6 14+40																		
Y6 14+95								7.2										
Y4 6+29								14.4										
Y4 30+18.5																		
Y4 30+18.5																		
Y4 30+19.5													1					
Y7 10+42													1					
Y7 10+42																		
Y7 10+89																		
Y7 10+80													1					
Y7 10+80																		
Y4 30+64													1					
Y4 30+64																		
Y4 30+87													1					
Y4 30+87																		
Y4 32+02													1					
Y4 32+02																		
SHEET TOTAL	14.4							36.0					19	1.00				

STATION	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
Y4 9+56							1				1								
Y4 9+56																			
Y4 11+19								1			1								
Y4 11+19																			
Y4 11+19							1				1								
Y4 10+44							1				1								
Y4 10+44																			
Y4 10+90							1				1								
Y4 10+90																			
Y4 11+19																			
Y4 11+19														1				1	
Y4 10+38								1			1								
Y4 10+38																			
Y4 11+19																			
Y4 11+19																			
Y4 11+70							1				1								
Y4 11+70																			
Y4 12+74							1				1								
Y5 DET 10+75																			
Y5 12+67																			
Y5 12+85																			
Y5 12+74																			
Y4 12+40							1				1								
Y4 12+40																			
Y4 13+34							1				1								
Y4 13+35																			
Y4 13+34																			
Y4 13+36																			
Y4 13+34																		1	1
Y4 13+34																			
Y4 13+42								1			1								
Y6 11+54																			
Y6 12+08																			
Y6 14+40																			
Y6 14+95																			
Y4 6+29																			
Y4 30+18.5																			
Y4 30+18.5																			
Y4 30+19.5							1						1						
Y7 10+42	1	1																	
Y7 10+42																			
Y7 10+89																			
Y7 10+80	1	1																	
Y7 10+80																			
Y4 30+64							1						1						
Y4 30+64																			
Y4 30+87						1							1						
Y4 30+87																			
Y4 32+02						1							1						
Y4 32+02																			
SHEET TOTAL	2	2				2	9	3			10		4	1				2	1

STATION	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 9+56													152.4	REMOVE EXIST. 2GI
Y4 9+56					28.8							0.1		
Y4 11+19														
Y4 11+19			27.6											
Y4 11+19												0.1		REMOVE EXIST. 2GI
Y4 10+44														
Y4 10+44														
Y4 10+90														
Y4 10+90														
Y4 11+19				15.6										
Y4 11+19														
Y4 10+38														
Y4 10+38														
Y4 11+19														
Y4 11+19														
Y4 11+70														
Y4 11+70														
Y4 12+74														
Y5 DET 10+75													14.4	TEMP. PIPE; REMOVE TEMP. PIPE
Y5 12+67											0.4			
Y5 12+85											0.4			
Y5 12+74														
Y4 12+40														
Y4 12+40														
Y4 13+34														REMOVE EXIST. 2GI
Y4 13+35											0.33			
Y4 13+34											0.29			
Y4 13+36														
Y4 13+34														
Y4 13+34														
Y4 13+42														
Y6 11+54														
Y6 12+08														
Y6 14+40								1						(SEE SHEET 21)
Y6 14+95														
Y4 6+29													16.8	
Y4 30+18.5		1												
Y4 30+18.5														
Y4 30+19.5														
Y7 10+42														RECESSED IN CURB
Y7 10+42														
Y7 10+89													7.2	
Y7 10+80														
Y7 10+80														
Y4 30+64														
Y4 30+64													14.4	
Y4 30+87														
Y4 30+87														
Y4 32+02												0.05	12	REMOVE 2GI
Y4 32+02														
SHEET TOTAL		1	27.6	15.6	28.8			1			1.42	0.25	217.2	

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

6/20/00

17-MAR-2005 09:51
u:\1275\DESIGN\R2552C_RDY_PSH03A-M (SUM).dgn
dwheatley AT WSRAL-NEMO