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-G

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.P. Pipe (Unless Noted Otherwise) Size 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)
Y5 22+38	RT	253	254		78.84	78.90						22.8																		
LOOP C 5+50	LT	255	256		76.70	83.52																				19.2				
LOOP C 5+50	LT	256		84.33	83.52																									
LOOP C 5+50	LT	256	257		83.52	85.33			51.6																					
LOOP C 6+04.5	LT	257		86.14	85.33																									
Y4 25+04	LT	258		84.89	84.08																									
Y4 25+04	LT	258	259		84.08	77.36																				16.8				
Y4 25+04	LT	259			–	–																								
L2 149+41	RT	260	261		77.90	78.12			24.0																					
L2 149+41	CL	261		78.68	78.12																									
Y4 26+65	RT	265		78.96	76.40																									
Y4 26+42	LT	266	267		76.46	76.50									6.0															
Y4 26+85	CL	268A		80.39	79.34																									
Y4 26+84	CL	268		80.19	79.35																									
Y4 26+84	CL	268	269		79.35	79.25			16.8																					
Y4 26+88	LT	269		80.65	79.25																									
Y4 26+88	LT	269	270		79.25	76.8																				10.8				
Y4 27+07	LT	271	272		78.00	78.33				42.0																				
Y4 27+50	LT	272		78.97	78.33																									
Y4 27+50	LT	272	273		78.33	79.29			30.0																					
Y4 27+40	CL	273		80.10	79.29																									
Y4 27+50	LT	272	274		78.33	79.67			114																					
Y4 28+72	LT	274		80.48	79.67																									
Y4 28+72	LT	274	275		79.67	79.82			14.4																					
Y4 28+86	LT	275		80.63	79.82																									
L2 150+35	LT	276		78.77	77.01																									
L2 150+40	LT	277	278		77.01	77.05								9.6																
L2 151+59	RT	279	280		77.60	77.54			6.0																					
L2 151+63	CL	281		78.78	77.70																									
L2 152+61	RT	282		77.30	76.46																									
L2 152+61	RT	282	283		76.46	75.82			52.8																					
RAMP D 1+40	LT	283		76.86	75.60																									
RAMP D 1+40	LT	283	284		75.60	75.50					25.2																			
L2 153+38	RT	285	286		75.70	75.81			7.2																					
L2 153+33	CL	287		78.03	76.08																									
L2 153+88	RT	288	289		74.96	74.97					3.6																			
L2 154+64.5	CL	290		77.60	75.67																									
L2 154+64.5	RT	291	292		74.80	74.82			4.8																					
L2 155+26.5	RT	295	296		74.55	74.55							6.0																	
L2 156+20	CL	297			78.72	76.95																								
L2 157+38.5	CL	298			79.73	78.42																								
Y4 7+48.5	LT	299	300																											
Y4 8+28	LT	301	302																											
Y4 7+40	LT	303		91.71	90.90																									
Y4 7+40	LT	303	304		90.90	90.48																								
Y4 7+40	RT	304		91.29	90.40																									
Y4 7+40	RT	304	305		90.40	89.87				82.8																				
Y4 8+24	RT	305		90.79	89.72																									
Y4 8+24	RT	305	306		89.72	89.00					130.8																			
Y4 9+56	RT	306		90.07	89.00																									
Y4 9+56	RT	306	307		89.00	88.80																								
SHEET TOTAL									321.6	124.8	159.6	22.8	6.0	9.6	6.0											46.8				

Station	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 for Drainage, Per Each (0 thru 1.50)	*Total M for pay quantity shall be col. 'A' + (1.3 x col. 'B') Meters A: 1.50 thru 3.00	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
Y5 22+38																														
LOOP C 5+50																														
LOOP C 5+50						1												1		1										
LOOP C 5+50																														
LOOP C 6+04.5						1												1		1										
Y4 25+04						1												1		1										
Y4 25+04																														
Y4 25+04																														
L2 149+41																														
L2 149+41						1													1			1								
Y4 26+65						1	1.06																							1
Y4 26+42				4.6																										
Y4 26+85						1												1				1								
Y4 26+84						1												1				1								
Y4 26+84																														
Y4 26+88						1												1		1										
Y4 26+88																														
Y4 27+07																														
Y4 27+50						1													1			1								
Y4 27+50																														
Y4 27+40						1												1				1								
Y4 27+50																														
Y4 28+72						1												1				1								
Y4 28+72																														
Y4 28+86						1												1				1								
L2 150+35																														
L2 150+40				3.4																										
L2 151+59																														
L2 151+63																														
L2 152+61						1												1				1								
L2 152+61																														
RAMP D 1+40						1											1			-	1	1								
RAMP D 1+40																														
L2 153+38																														
L2 153+33																														
L2 153+88																														
L2 154+64.5																														
L2 154+64.5																														
L2 155+26.5																														
L2 156+20																														
L2 157+38.5																														
Y4 7+48.5	34.8																													
Y4 8+28		25.2																												
Y4 7+40						1												1				1								
Y4 7+40																														
Y4 7+40						1												1				1								
Y4 7+40																														
Y4 8+24						1												1				1								
Y4 8+24																														
Y4 9+56						1											1					1								
Y4 9+56																														
SHEET TOTAL	34.8	25.2		8.0		18	1.06										2	13	2	4	1	13								1

Station	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
Y5 22+38														
LOOP C 5+50									2	400				
LOOP C 5+50														
LOOP C 5+50														
LOOP C 6+04.5														
Y4 25+04														
Y4 25+04									2	400				
Y4 25+04								1						(SEE SHEET 15)
L2 149+41														
L2 149+41														
Y4 26+65													55.2	LOCATE AND REMOVE EXIST. JB
Y4 26+42											0.74			REMOVE EW
Y4 26+85														
Y4 26+84														
Y4 26+84														
Y4 26+88														
Y4 26+88									2	400				
Y4 27+07														
Y4 27+50														
Y4 27+50														
Y4 27+40														
Y4 27+50													12.0	
Y4 28+72														
Y4 28+72													8.4	
Y4 28+86														
L2 150+35						1								
L2 150+40											0.65			REMOVE EXISTING HW
L2 151+59											0.29			
L2 151+63						1								
L2 152+61														
L2 152+61														
RAMP D 1+40														3 GI
RAMP D 1+40														
L2 153+38											0.29			
L2 153+33						1								
L2 153+88											0.40			
L2 154+64.5						1								
L2 154+64.5											0.29			
L2 155+26.5											0.56			
L2 156+20						1								
L2 157+38.5						1								
Y4 7+48.5													22.8	
Y4 8+28													22.8	
Y4 7+40														
Y4 7+40			26.4											
Y4 7+40														
Y4 7+40													7.2	
Y4 8+24													7.2	
Y4 8+24														
Y4 9+56														
Y4 9+56					22.8							0.10		REMOVE EXIST. EW
SHEET TOTAL			26.4		22.8	6		1	6	400	3.2	0.10	135.6	

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

17-MAR-2005 09:51
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dwheatley AT WSRAL-NEMO