



# Condition Assessment Report

## APPENDICES A-E

**Stormwater, Sanitary  
Sewer, Water and  
Irrigation Systems**

**University at Albany  
(Uptown Campus)**

**Prepared for:**

**The State University  
Construction Fund and the  
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**SUCF Project No. 01834**



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COMMITMENT & INTEGRITY DRIVE RESULTS

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**Table A-1: Sanitary Sewer System Cracks and Breaks**

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
Circumferential Crack	MH133	MH134	D08_sMH03	D08_sMH04	63.7	Colonial Quad	41
Circumferential Crack	MH135	MH136	E09_sMH01	E08_sMH02	61.2	Colonial Quad	44
Longitudinal Fracture	MH37	MH38	H06_sMH03	H07_sMH01	36.2	Dutch Quad	3
Break	MH39	MH82	H07_sMH04	H07_sMH05	11.2	Dutch Quad	5
Break - Void Visible	MH39	MH40	H07_sMH04	H07_sMH02	88.1	Dutch Quad	19
Circumferential Crack	MH39	MH40	H07_sMH04	H07_sMH02	30.0	Dutch Quad	19
Circumferential Crack	MH39	MH40	H07_sMH04	H07_sMH02	45.5	Dutch Quad	19
Hole	MH39	MH40	H07_sMH04	H07_sMH02	68.5	Dutch Quad	19
Break	MH86	STUB – A	J08_sMH01	Indian Quad	102.6	Indian Quad and Justice Drive	22
Circumferential Crack	MH144	MH145	F11_sMH02	F11_sMH03	4.2	North State Quad and Softball Field	56

**Table A-2: Sanitary Sewer System Pipe Blockages**

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
70% Roots	MH132	MH133	D08_sMH01	D08_sMH03	42.0	Colonial Quad	39
65% Roots	MH132	MH133	D08_sMH01	D08_sMH03	85.5	Colonial Quad	39
40% Roots	MH132	MH133	D08_sMH01	D08_sMH03	80.5	Colonial Quad	39
Obstacle Brick	MH132	MH133	D08_sMH01	D08_sMH03	42.0	Colonial Quad	39
Intruding Tap	MH133	MH134	D08_sMH03	D08_sMH04	134.4	Colonial Quad	41
20% Roots	MH134	MH135	D08_sMH04	E09_sMH01	146.1	Colonial Quad	43
25% Roots	MH135	MH136	E09_sMH01	E08_sMH02	8.0	Colonial Quad	44
70% Roots	MH135	MH137	E09_sMH01	E09_sMH02	29.3	Colonial Quad	45
55% Roots	MH135	MH137	E09_sMH01	E09_sMH02	20.0	Colonial Quad	45
90% Alignment Right	MH86	STUB – A	J08_sMH01	Indian Quad	136.8	Indian Quad and Justice Drive	22
25% Tennis Ball	MH86	STUB – B	J08_sMH01	Indian Quad	74.7	Indian Quad and Justice Drive	23
35% Roots	MH140	MH141	F10_sMH02	F10_sMH03	100.1, 107.3	North State Quad Softball Field	48
25% Deposits	MH140	MH141	F10_sMH02	F10_sMH03	9.7	North State Quad Softball Field	48
10% Deposits	MH140	MH141	F10_sMH02	F10_sMH03	131.1	North State Quad Softball Field	48
Roots	MH140	MH141	F10_sMH02	F10_sMH03	100.1	North State Quad Softball Field	48

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
20% Roots	MH141	MH142	F10_sMH03	F10_sMH04	100.0	North State Quad Softball Field	50
60% Roots	MH140	MH139	F10_sMH02	F10_sMH01	181.8	North State Quad Softball Field	54
40% Roots	MH140	MH139	F10_sMH02	F10_sMH01	191.3, 210.6	North State Quad Softball Field	54
25% Roots	MH142	MH144	F10_sMH04	F11_sMH02	3.0, 38.1	North State Quad Softball Field	55
85% Roots	MH143	MH142	G10_sMH01	F10_sMH04	257.8	North State Quad Softball Field	58
35% Roots	MH60	MH308	H08_sMH02	H08_sMH01	4.0	Parking Mass Transit	28
70% Roots	MH60	MH61	H08_sMH02	H08_sMH04	10.6	Parking Mass Transit	29
80% Roots	MH60	MH189	H08_sMH02	H08_sMH03	8.0	Parking Mass Transit	31
30% Roots	MH189	MH60	H08_sMH03	H08_sMH02	107.4	Parking Mass Transit	32
90% Roots	MH32	MH27	F05_sMH04	G05_sMH03	19.3	Support Building	25
75% Roots	MH32	MH29	F05_sMH04	F05_sMH02	17.4	Support Building	26
30% Roots	MH32	MH29	F05_sMH04	F05_sMH02	66.1	Support Building	26
20% Roots	MH32	MH29	F05_sMH04	F05_sMH02	10.4, 17.4	Support Building	26
25% Roots	MH20	MH21	G05_sMH05	G05_sMH06	40.4	Support Building	37
40% Roots	MH82	MH83	H07_sMH05	H07_sMH09	73.1, 74.1	University Field	6
35% Roots	MH82	MH83	H07_sMH05	H07_sMH09	107.4	University Field	6

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
20% Roots	MH82	MH83	H07_sMH05	H07_sMH09	48.8, 64.7	University Field	6
Roots (Unspecified)	MH82	MH83	H07_sMH05	H07_sMH09	64.7-73.1	University Field	6
30% Roots	MH84	MH85	I07_sMH03	I08_sMH01	169.6, 184.9	University Field	9
20% Roots	MH84	MH85	I07_sMH03	I08_sMH01	101.2, 140.8, 150.2	University Field	9
30% Roots	MH85	MH81	I08_sMH01	I08_sMH04	15.0, 23.2	University Field	10
20% Roots	MH85	MH81	I08_sMH01	I08_sMH04	10.3, 122.8	University Field	10
Roots (Unspecified)	MH85	MH81	I08_sMH01	I08_sMH04	23.2	University Field	10

**Table A-3: Sanitary Sewer System Pipes Containing Fine Roots**

Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Area	Page Number
MH133	MH134	D08_sMH03	D08_sMH04	Colonial Quad	41
MH134	MH135	D08_sMH04	E09_sMH01	Colonial Quad	43
MH135	MH136	E09_sMH01	E08_sMH02	Colonial Quad	44
MH135	MH137	E09_sMH01	E09_sMH02	Colonial Quad	45
MH35	MH36	G06_sMH05	H06_sMH01	Dutch Quad	1
MH37	MH38	H06_sMH03	H07_sMH01	Dutch Quad	3
MH39	MH40	H07_sMH04	H07_sMH02	Dutch Quad	19
MH81	MH63	I08_sMH04	--	Dutch Quad	21
MH100	MH101	K09_sMH01	K09_sMH02	Indian Quad and Justice Drive	17
MH88	MH91	J08_sMH05	J09_sMH01	Indian Quad and Justice Drive	59
MH91	MH99	J09_sMH01	J09_sMH02	Indian Quad and Justice Drive	60
MH110	MH103	K10_sMH01	K10_sMH02	Indian Quad and Justice Drive	63
MH103	MH104	K10_sMH02	K10_sMH04	Indian Quad and Justice Drive	64
MH138	MH139	E09_sMH03	F10_sMH01	North State Quad Softball Field	47
MH140	MH141	F10_sMH02	F10_sMH03	North State Quad Softball Field	48
MH140	MH139	F10_sMH02	F10_sMH01	North State Quad Softball Field	54



Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Area	Page Number
MH144	MH145	F11_sMH02	F11_sMH03	North State Quad Softball Field	56
MH143	MH142	G10_sMH01	F10_sMH04	North State Quad Softball Field	58
MH60	MH308	H08_sMH02	H08_sMH01	Parking Mass Transit	28
MH60	MH189	H08_sMH02	H08_sMH03	Parking Mass Transit	31
MH32	MH29	F05_sMH04	F05_sMH02	Support Building	26
MH19	MH20	G04_sMH04	G05_sMH05	Support Building	36
MH20	MH109	G05_sMH05	G05_sMH04	Support Building	38
MH82	MH83	H07_sMH05	H07_sMH09	University Field	6
MH84	MH85	I07_sMH03	I08_sMH01	University Field	9
MH85	MH81	I08_sMH01	I08_sMH04	University Field	10

**Table A-4: Sanitary Sewer System Pipes Containing Grease**

Amount	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
5%	MH137	MH138	E09_sMH02	E09_sMH03	258.7, 276.1	Collins Circle	46
5%	MH138	MH139	E09_sMH03	F10_sMH01	3.1, 252.5	Collins Circle	47
5%	MH133	MH134	D08_sMH03	D08_sMH04	140.5, 164.7	Colonial Quad	41
5%	MH134	MH135	D08_sMH04	E09_sMH01	117.6, 169.3	Colonial Quad	43
5%	MH135	MH137	E09_sMH01	E09_sMH02	12.8, 90.6	Colonial Quad	45
10%	MH36	MH37	H06_sMH01	H06_sMH03	0.0, 191.7	Dutch Quad	2
20%	MH87	MH88	J08_sMH02	J08_sMH05	6.5, 48.7	Indian Quad and Justice Drive	15
5%	MH140	MH139	F10_sMH02	F10_sMH01	161.4, 172.5	North State Quad Softball Field	54
5%	MH141	MH142	F10_sMH03	F10_sMH04	0.1, 80.2	North State Quad Softball Field	50
35%	MH82	MH83	H07_sMH05	H07_sMH09	63.2	University Field	6
15%	MH82	MH83	H07_sMH05	H07_sMH09	9.0, 34.0	University Field	6

**Table A-5: Sanitary Sewer System Pipe Sags**

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
15-20%	MH135	MH137	E09_sMH01	E09_sMH02	-	Collins Circle	45
15%	MH137	MH138	E09_sMH02	E09_sMH03	-	Collins Circle	46
25%	MH138	MH139	E09_sMH03	F10_sMH01	-	Collins Circle	47
10-20%	MH134	MH135	D08_sMH04	E09_sMH01	-	Colonial Quad	43
20%	MH135	MH136	E09_sMH01	E08_sMH02	-	Colonial Quad	44
20-25%	MH35	MH36	G06_sMH05	H06_sMH01	-	Dutch Quad	1
25%	MH36	MH37	H06_sMH01	H06_sMH03	-	Dutch Quad	2
30%	MH37	MH38	H06_sMH03	H07_sMH01	0.0, 98.1	Dutch Quad	3
25%	MH38	MH39	H07_sMH01	H07_sMH04	-	Dutch Quad	4
35%	MH39	MH82	H07_sMH04	H07_sMH05	0.0, 49.7	Dutch Quad	5
15%	MH37	STUB – 37	H06_sMH03	Dutch Quad	-	Dutch Quad	18
20%	MH86	STUB – A	J08_sMH01	Indian Quad	-	Indian Quad and Justice Dr.	22
35%	MH88	MH91	J08_sMH05	J09_sMH01	206.0, 235.1	Indian Quad and Justice Drive	59
30%	MH88	MH91	J08_sMH05	J09_sMH01	8.0, 186.5	Indian Quad and Justice Drive	59
35%	MH91	MH99	J09_sMH01	J09_sMH02	23.2, 202.2	Indian Quad and Justice Drive	60
45%	MH101	MH102	K09_sMH02	K09_sMH03	0.0, 49.4	Indian Quad and Justice Drive	61
40%	MH101	MH102	K09_sMH02	K09_sMH03	144.8, 180.8	Indian Quad and Justice Drive	61
35%	MH101	MH102	K09_sMH02	K09_sMH03	73.4, 115.0	Indian Quad and Justice Drive	61
35%	MH102	MH110	K09_sMH03	K10_sMH01	10.6, 139.4	Indian Quad and Justice Drive	62
45%	MH110	MH103	K10_sMH01	K10_sMH02	3.6, 141.0	Indian Quad and Justice Drive	63
45%	MH103	MH104	K10_sMH02	K10_sMH04	30.8, 196.3	Indian Quad and Justice Drive	64

30%	MH140	MH141	F10_sMH02	F10_sMH03	0.0, 20.6, 166.7, 176.1, 190.0	North State Quad Softball Field	48
45%	MH141	MH142	F10_sMH03	F10_sMH04	80.9, 89.4	North State Quad Softball Field	50
25%	MH141	MH142	F10_sMH03	F10_sMH04	-	North State Quad Softball Field	50
50%	MH140	MH139	F10_sMH02	F10_sMH01	0.0, 63.1	North State Quad Softball Field	54
45%	MH140	MH139	F10_sMH02	F10_sMH01	100.2, 124.5, 159.1, 172.5	North State Quad Softball Field	54
30%	MH142	MH144	F10_sMH04	F11_sMH02	147.3, 258.7	North State Quad Softball Field	55
25%	MH142	MH144	F10_sMH04	F11_sMH02	-	North State Quad Softball Field	55
30%	MH144	MH145	F11_sMH02	F11_sMH03	201.1, 240.7	North State Quad Softball Field	56
25%	MH144	MH145	F11_sMH02	F11_sMH03	-	North State Quad Softball Field	56
25%	MH189	STUB – 189	H08_sMH03	Physics	-	Parking Mass Transit	33
20-25%	MH32	MH29	F05_sMH04	F05_sMH02	-	Support Building	26
75%	MH14	MH13	G05_sMH02	F05_sMH03	3.0, 56.2	Support Building	34
20-25%	MH19	MH20	G04_sMH04	G05_sMH05	-	Support Building	36
30%	MH20	MH21	G05_sMH05	G05_sMH06	18.9, 136.8	Support Building	37
60%	MH85	MH81	I08_sMH01	I08_sMH04	133.7, 187.0	University Field	10
20%	MH81	MH80	I08_sMH04	I08_sMH02	-	University Field	12
35%	MH81	MH86	I08_sMH04	J08_sMH01	9.0, 200.2	University Field	13
20%	MH73	MH74	I07_sMH04	J07_sMH05	-	University Field	24

**Table A-6: Sanitary Sewer System Other Pipe Issues**

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
Under Water	MH37	STUB	H06_sMH03	Dutch Quad	43.3	Dutch Quad	18
Siphon	MH86	STUB – B	J08_sMH01	Indian Quad	101.5	Indian Quad and Justice Drive	23
Under Water	MH140	MH141	F10_sMH02	F10_sMH03	20.6	North State Quad Softball Field	48

**Table A-7: Storm Sewer System Cracks and Breaks**

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
Infiltration Runner [1/2 GPM]	MH51	MH49	G06_dMH01	G06_dMH04	10.4	Dutch Quad	76
Infiltration Dripper [1/32 GPM]	MH44	MH43	H06_dMH01	H07_dMH02	123.4	Dutch Quad	104
Longitudinal Crack	MH155	MH182	G07_dMH04	G07_dMH06	20.3	Humanities and Education	78
Longitudinal Crack	MH155	MH182	G07_dMH04	G07_dMH06	30.1	Humanities and Education	78
Longitudinal Crack	MH155	MH182	G07_dMH04	G07_dMH06	43.0	Humanities and Education	78
Longitudinal Crack	MH182	MH181	G07_dMH06	G08_dMH01	90.8	Humanities and Education	79
Longitudinal Crack	MH182	MH181	G07_dMH06	G08_dMH01	156.7	Humanities and Education	79
Longitudinal Crack	MH182	MH181	G07_dMH06	G08_dMH01	194.0	Humanities and Education	79
Circumferential Fracture	CB232	MH172	G09_	F09_dMH01	94.0	South State Quad and Fine Arts	123
Longitudinal Crack	MH31	MH49A	F05_dMH04	--	90.0	Support Building	85
Longitudinal Crack	MH31	MH49A	F05_dMH04	--	114.4	Support Building	85
Longitudinal Crack	MH31	MH49A	F05_dMH04	--	118.5	Support Building	85
Circumferential Crack	MH30	CB557	F05_dMH02	F05_dCB15	20.2	Support Building	87
Longitudinal Crack	MH30	CB557	F05_dMH02	F05_dCB15	7.0	Support Building	87
Longitudinal Crack	MH30	CB557	F05_dMH02	F05_dCB15	28.6	Support Building	87

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
Longitudinal Crack	MH30	CB557	F05_dMH02	F05_dCB15	44.6	Support Building	87
Longitudinal Crack	MH30	CB557	F05_dMH02	F05_dCB15	69.7	Support Building	87
Longitudinal Crack	MH30	CB557	F05_dMH02	F05_dCB15	74.5	Support Building	87
Multiple Cracks	MH30	CB557	F05_dMH02	F05_dCB15	57.9	Support Building	87
Multiple Cracks	MH30	CB557	F05_dMH02	F05_dCB15	64.7	Support Building	87
Longitudinal Crack	CB557	MH3	F05_dCB15	F05_dMH03	4.7	Support Building	88
Longitudinal Crack	CB557	MH3	F05_dCB15	F05_dMH03	20.9	Support Building	88
Longitudinal Crack	CB557	MH3	F05_dCB15	F05_dMH03	36.8	Support Building	88
Longitudinal Crack	MH3	MH4	F05_dMH03	G05_dMH01	41.9	Support Building	89
Longitudinal Crack	MH3	MH4	F05_dMH03	G05_dMH01	98.0	Support Building	89
Longitudinal Crack	MH3	MH4	F05_dMH03	G05_dMH01	160.3	Support Building	89
Longitudinal Crack	CB361	CB374	I07_dCB17	J07_dCB06	16.5	University Field	154
Longitudinal Crack	CB361	CB374	I07_dCB17	J07_dCB06	19.8	University Field	154
Infiltration Runners and Drippers	MH97	MH96	L08_dMH02	L08_dMH03	Multiple (each joint)	Hammer Throw	Lash
Multiple Cracks	MH97	CB128	L08_dMH02	M07_dCB12	191	Hammer Throw	Lash

**Table A-8: Storm Sewer System Pipe Blockages**

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
35% Obstacles	MH194	MH52	F07_dMH02	F06_dMH05	30.1, 32.7	Dutch Quad Area	73
10% Deposits	MH155	MH182	G07_dMH04	G07_dMH06	-	Humanities and Education	78
5% Deposits Settled Gravel	MH182	MH181	G07_dMH06	G08_dMH01	-	Humanities and Education	79
20% Deposits	CB162	CB164	F07_dCB10	F07_dCB09	39.9	Social Sciences	66
10% Deposits	CB91	CB164	F07_dCB05	F07_dCB09	-	Social Sciences	119
15% Deposits	CB93	CB161	F07_dCB06	F07_dCB07	-	Social Sciences	121
25% Deposits	CB93	CB90	F07_dCB06	F07_dCB04	0.0, 59.0	Social Sciences	122
20% Obstacle	CB232	MH172	G09_dCB07	F09_dMH01	102.3	South State Quad and Fine Arts	123
15% Obstacle	CB232	MH172	G09_dCB07	F09_dMH01	113.5	South State Quad and Fine Arts	123
20% Obstacle	CB231	CB229	G09_dCB06	G09_dCB05	154.2, 163.5	South State Quad and Fine Arts	124
Unspecified Debris	CB231	CB229	G09_dCB06	G09_dCB05	165.5	South State Quad and Fine Arts	124
15% Deposits	CB228	CB227	G09_dCB01	F09_dCB23	-	South State Quad and Fine Arts	133
25% Deposits	CB228	CB229	G09_dCB01	G09_dCB05	17.5, 40.0	South State Quad and Fine Arts	134
10% Deposits	CB228	CB229	G09_dCB01	G09_dCB05	-	South State Quad and Fine Arts	134
20% Deposits	MH31	MH28	F07_dMH02	F06_dMH05	55.3, 68.4	Support Building	84
10% Deposits	MH31	MH28	G07_dMH04	G07_dMH06	-	Support	84



Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
						Building	
15% Deposits	MH30	CB557	G07_dMH06	G08_dMH01	-	Support Building	87
10% Deposits	CB557	MH3	F05_dMH04	G05_dMH06	-	Support Building	88
10% Unidentified Obstacle	MH3	MH4	F05_dMH04	G05_dMH06	135.6	Support Building	89
10% Deposits	MH3	MH4	F05_dMH02	F05_dCB15	-	Support Building	89
5% Deposits	MH3	MH4	F05_dCB15	F05_dMH03	-	Support Building	89
20% Deposits	MH9	MH8	F05_dMH03	G05_dMH01	0.0, 48.6	Support Building	91
15% Deposits	MH9	MH8	F05_dMH03	G05_dMH01	-	Support Building	91
15% Deposits	MH8	CB16	F05_dMH03	G05_dMH01	-	Support Building	92
10% Deposits	MH8	MH6	G05_dMH04	G05_dMH05	-	Support Building	93
15% Obstacle	MH6	MH4	G05_dMH03	G05_dMH01	44.7	Support Building	94
40% Deposits	MH1	CB4	F05_dMH01	F05_dCB10	49.6, 52.6	Support Building	97
20% Deposits	MH1	CB4	F05_dMH01	F05_dCB10	123.1, 156.0	Support Building	97
10% Deposits	MH1	CB4	F05_dMH01	F05_dCB10	-	Support Building	97
Muck/Deposits	MH1	CB4	F05_dMH01	F05_dCB10	52.6-123.1	Support Building	97
25% Deposits	CB4	CB5	F05_dCB10	F05_dCB11	0.0, 16.7	Support Building	99
15% Deposits	CB6	CB3	G05_dCB01	F05_dCB12	-	Support Building	105
15% Deposits	CB6	CB9	G05_dCB01	G05_dCB03	-	Support Building	106
15% Deposits	CB8	CB8A	G05_dCB04	--	-	Support Building	107
10% Deposits	CB10	CB9	G05_dCB05	G05_dCB03	-	Support Building	110
5% Deposits	MH7	MH6	G05_dMH02	G05_dMH03	-	Support Building	112

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
10% Deposits	MH3	1012	F05_dMH03	G05_dCB06	-	Support Building	113
10% Deposits	CB15	CB16	G05_dCB14	G05_dCB13	-	Support Building	114
10% Deposits	MH28	CB46	G05_dMH06	F05_dCB17	-	Support Building	115
45% Deposits	CB51	CB52	F05_dCB13	F05_dCB16	0.0, 3.0	Support Building	116
30% Deposits	CB51	CB52	F05_dCB13	F05_dCB16	3.0	Support Building	116
Unspecified Deposits	CB51	CB52	F05_dCB13	F05_dCB16	3.0	Support Building	116
30% Deposits	CB52	CB51	F05_dCB16	F05_dCB13	50.3	Support Building	117
10% Deposits	CB52	CB51	F05_dCB16	F05_dCB13	21.7, 50.3	Support Building	117
20% Deposits	CB51	CB49	F05_dCB13	F05_dCB09	0.0, 12.4	Support Building	118
45% Alignment Right	CB361	CB374	I07_dCB17	J07_dCB06	62.4	University Field	154
35% Deposits	MH113	CB362	I07_dMH01	I07_dCB01	4.0	University Field	156
25% Deposits	MH113	CB362	I07_dMH01	I07_dCB01	73.0, 113.0	University Field	156
Unspecified Deposits	MH113	CB362	I07_dMH01	I07_dCB01	4.0-73.0	University Field	156
10% Deposits	MH97	MH96	L08_dMH02	L08_dMH03	Every joint	Hammer Throw	Lash
10% Deposits	MH97	MH128	L08_dMH02	M07_dCB12	Every joint	Hammer Throw	Lash
30% Obstacles	MH97	CB128	L08_dMH02	M07_dCB12	112.6	Hammer Throw	Lash

**Table A-9: Storm Sewer System Pipes Containing Fine Roots**

Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Area	Page Number
MH169	MH168	E08_dMH05	E08_dMH06	Colonial Quad Area	132
MH182	MH181	G07_dMH06	G08_dMH01	Humanities and Education	79
MH181	MH316	G08_dMH01	G08_dMH02	Humanities and Education	80
CB223	CB222	F08_dCB06	F08_dCB07	North of Business	126
CB226	CB224	F08_dCB04	F08_dCB05	North of Business	128
CB226	CB220	F08_dCB04	F08_dCB03	North of Business	129
CB203	CB220	E08_dCB14	F08_dCB03	North of Business	130
MH1	CB4	F05_dMH01	F05_dCB10	Support Building	97
CB6	CB9	G05_dCB01	G05_dCB03	Support Building	106
CB10	CB9	G05_dCB05	G05_dCB03	Support Building	110
CB52	CB51	F05_dCB16	F05_dCB13	Support Building	117
MH26	CB45	I06_dMH01	I06_dCB05	University Field Area	135

**Table A-10: Storm Sewer System Pipe Sags**

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
20%	MH58	CB79	H07_dMH05	H07_dCB05	-	Humanities and Education	83
15%	MH8	MH10	G05_dMH05	G05_dMH07	-	Support Building	95

**Table A-11: Storm Sewer System Other Pipe Issues**

Type	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Location of Issue in Pipe (feet from Start)	Area	Page Number
Cannot Open CB Covers	CB4	CB5	F11_dCB10	F05_dCB11	16.7-29.0	Support Building	99
Cannot Open CB Covers	CB7	CB9	G05_dCB02	G05_dCB03	1.1-30.0	Support Building	108



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## APPENDIX B: ALL PIPE CONDITIONS

Table B-1: All Sanitary Sewer Pipes .....	B-1
Table B-2: All Storm Sewer Pipes .....	B-5



**Table B-1: All Sanitary Sewer Pipes**

Area	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Page Number	Cracks or Breaks	Blockage (%)	Grease (%)	Sags (%)	Fine Roots	Condition
Collins Circle	MH135	MH137	D08_sMH03	E09_sMH02	45		70	5	20	Y	Poor
Collins Circle	MH137	MH138	E09_sMH02	E09_sMH03	46			5	15		Fair
Collins Circle	MH138	MH139	E09_sMH03	F10_sMH01	47			5	25	Y	Fair
Colonial Quad	MH132	MH133	D08_sMH01	D08_sMH03	39		70				Poor
Colonial Quad	MH133	MH134	D08_sMH03	D08_sMH04	41	X	Un sp	5		Y	Poor
Colonial Quad	MH134	MH135	D08_sMH04	E09_sMH01	43		20	5	20	Y	Fair
Colonial Quad	MH135	MH136	E09_sMH01	E08_sMH02	44	X	25		20	Y	Poor
Dutch Quad	MH35	MH36	G06_sMH05	H06_sMH01	1				25	Y	Fair
Dutch Quad	MH36	MH37	H06_sMH01	H06_sMH03	2			10	25		Fair
Dutch Quad	MH37	MH38	H06_sMH03	H07_sMH01	3	X			30	Y	Poor
Dutch Quad	MH38	MH39	H07_sMH01	H07_sMH04	4				25		Fair
Dutch Quad	MH39	MH82	H07_sMH04	H07_sMH05	5	X			35		Poor
Dutch Quad	MH37	STUB	H06_sMH03	Dutch Quad	18		W at er		15		Fair
Dutch Quad	MH39	MH40	H07_sMH04	H07_sMH02	19	X				Y	Poor
Dutch Quad	MH41	MH40	H07_sMH03	H07_sMH02	52						Excellent



Area	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Page Number	Cracks or Breaks	Blockage (%)	Grease (%)	Sags (%)	Fine Roots	Condition
Dutch Quad	MH41	STUB	H07_sMH03	Dutch Quad	53						Excellent
I. Q. & J. Dr.	MH86	MH87	J08_sMH01	J08_sMH02	14						Excellent
I. Q. & J. Dr.	MH87	MH88	J08_sMH02	J08_sMH05	15			20			Poor
I. Q. & J. Dr.	MH99	MH100	J09_sMH02	K09_sMH01	16						Excellent
I. Q. & J. Dr.	MH100	MH101	K09_sMH01	K09_sMH02	17					Y	Good
I. Q. & J. Dr.	MH86	STUB-A	J08_sMH01	Indian Quad	22	X	90		20		Poor
I. Q. & J. Dr.	MH86	STUB-B	J08_sMH01	Indian Quad	23		25				Fair
I. Q. & J. Dr.	MH88	MH91	J08_sMH05	J09_sMH01	59				35	Y	Poor
I. Q. & J. Dr.	MH91	MH99	J09_sMH01	J09_sMH02	60				35	Y	Poor
I. Q. & J. Dr.	MH101	MH102	K09_sMH02	K09_sMH03	61				45		Poor
I. Q. & J. Dr.	MH102	MH110	K09_sMH03	K10_sMH01	62				35		Poor
I. Q. & J. Dr.	MH110	MH103	K10_sMH01	K10_sMH02	63				45	Y	Poor
I. Q. & J. Dr.	MH103	MH104	K10_sMH02	K10_sMH04	64				45	Y	Poor
N.S.Q. & S.F.	MH140	MH141	F10_sMH02	F10_sMH03	48		35		30	Y	Poor
N.S.Q. & S.F.	MH141	MH142	F10_sMH03	F10_sMH04	50		20	5	45		Poor
N.S.Q. & S.F.	MH140	MH139	F10_sMH02	F10_sMH01	54		60	5	50	Y	Poor

Area	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Page Number	Cracks or Breaks	Blockage (%)	Grease (%)	Sags (%)	Fine Roots	Condition
N.S.Q. & S.F.	MH142	MH144	F10_sMH04	F11_sMH02	55		25		30		Poor
N.S.Q. & S.F.	MH144	MH145	F11_sMH02	F11_sMH03	56	X			30	Y	Poor
N.S.Q. & S.F.	MH145	MH146	F11_sMH03	F11_sMH04	57						Excellent
N.S.Q. & S.F.	MH143	MH142	G10_sMH01	F10_sMH04	58		85			Y	Poor
Parking M.T.	MH60	MH308	H08_sMH02	H08_sMH01	28		35			Y	Poor
Parking M.T.	MH60	MH61	H08_sMH02	H08_sMH04	29		70				Poor
Parking M.T.	MH60	MH189	H08_sMH02	H08_sMH03	31		80			Y	Poor
Parking M.T.	MH189	STUB	H08_sMH03	Physics	33		30		25		Fair
Support Building	MH32	MH27	F05_sMH04	G05_sMH03	25		90				Poor
Support Building	MH32	MH29	F05_sMH04	F05_sMH02	26		75		25	Y	Poor
Support Building	MH14	MH13	G05_sMH02	F05_sMH03	34				75		Poor
Support Building	MH14	MH15	G05_sMH02	G05_sMH01	35						Excellent
Support Building	MH19	MH20	G04_sMH04	G05_sMH05	36					Y	Good
Support Building	MH20	MH21	G05_sMH05	G05_sMH06	37		25		30		Poor
Support Building	MH20	MH109	G05_sMH05	G05_sMH04	38					Y	Good
University Field	MH82	MH83	H07_sMH05	H07_sMH09	6		40	35		Y	Poor

Area	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Page Number	Cracks or Breaks	Blockage (%)	Grease (%)	Sags (%)	Fine Roots	Condition
University Field	MH83	MH84	H07_sMH09	I07_sMH03	8						Excellent
University Field	MH84	MH85	I07_sMH03	I08_sMH01	9		30			Y	Fair
University Field	MH85	MH81	I08_sMH01	I08_sMH04	10		30		60	Y	Poor
University Field	MH81	MH80	I08_sMH04	I08_sMH02	12				20		Fair
University Field	MH81	MH86	I08_sMH04	J08_sMH01	13				35		Poor
University Field	MH82	MH310	H07_sMH05	H07_sMH06	20						Excellent
University Field	MH81	MH63	I08_sMH04	--	21					Y	Good
University Field	MH73	MH74	I07_sMH04	J07_sMH05	24				20		Fair

**Table B-2: All Storm Sewer Pipes**

Area	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Page Number	Cracks or Breaks	Blockage (%)	Grease (%)	Sags (%)	Fine Roots	Condition
Colonial Quad	MH169	MH168	E08_dMH05	E08_dMH06	132					Y	Good
Dutch Quad	MH194	MH52	F07_dMH02	F06_dMH05	73		35				Poor
Dutch Quad	MH52	MH51	F06_dMH05	G06_dMH01	75						Excellent
Dutch Quad	MH51	MH49	G06_dMH01	G06_dMH04	76	X					Poor
Dutch Quad	MH45	MH47	G06_dMH03	G06_dMH02	101						Excellent
Dutch Quad	MH47	MH49	G06_dMH02	G06_dMH04	102						Excellent
Dutch Quad	MH45	MH44	G06_dMH03	H06_dMH01	103						Excellent
Dutch Quad	MH44	MH43	H06_dMH01	H07_dMH02	104	X					Poor
Hum. & Educ.	MH155	CB165	G07_dMH04	G07_dCB08	77						Excellent
Hum. & Educ.	MH155	MH182	G07_dMH04	G07_dMH06	78	X	10				Poor
Hum. & Educ.	MH182	MH181	G07_dMH06	G08_dMH01	79	X	5			Y	Poor
Hum. & Educ.	MH181	MH316	G08_dMH01	G08_dMH02	80					Y	Good
Hum. & Educ.	MH316	CB77	G08_dMH02	G07_dCB11	81						Excellent
Hum. & Educ..	CB77	MH58	G07_dCB11	H07_dMH05	82						Excellent
Hum. & Educ..	MH58	CB79	H07_dMH05	H07_dCB05	83				20		Fair
Business	CB223	CB222	F08_dCB06	F08_dCB07	126					Y	Good

Area	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Page Number	Cracks or Breaks	Blockage (%)	Grease (%)	Sags (%)	Fine Roots	Condition
Business	CB223	CB224	F08_dCB06	F08_dCB05	127						Excellent
Business	CB226	CB224	F08_dCB04	F08_dCB05	128					Y	Good
Business	CB226	CB220	F08_dCB04	F08_dCB03	129					Y	Good
Business	CB203	CB220	E08_dCB14	F08_dCB03	130					Y	Good
Business	CB203	MH169	E08_dCB14	E08_dMH05	131						Excellent
S.S.Q. & F.A.	CB232	MH172	G09_dCB07	F09_dMH01	123	X	20				Poor
S.S.Q. & F.A.	CB231	CB229	G09_dCB06	G09_dCB05	124		20				Fair
S.S.Q. & F.A.	CB231	CB232	G09_dCB06	G09_dCB07	125						Excellent
S.S.Q. & F.A.	CB228	CB227	G09_dCB01	F09_dCB23	133		15				Fair
S.S.Q. & F.A.	CB228	CB229	G09_dCB01	G09_dCB05	134		25				Fair
Social Sciences	CB162	MH156	F07_dCB10	F07_dMH04	65						Excellent
Social Sciences	CB162	CB164	F07_dCB10	F07_dCB09	66		20				Fair
Social Sciences	MH154	CB90	F07_dMH03	F07_dCB04	68						Excellent
Social Sciences	MH154	MH153	F07_dMH03	F07_dMH01	69						Excellent
Social Sciences	MH153	3101	F07_dMH01	F07_dCB01	70						Excellent
Social Sciences	3101	CB505	F07_dCB01	F07_dCB03	71						Excellent
Social Sciences	CB505	MH194	F07_dCB03	F07_dMH02	72						Excellent

Area	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Page Number	Cracks or Breaks	Blockage (%)	Grease (%)	Sags (%)	Fine Roots	Condition
Social Sciences	CB91	CB164	F07_dCB05	F07_dCB09	119		10				Fair
Social Sciences	CB91	CB90	F07_dCB05	F07_dCB04	120						Excellent
Social Sciences	CB93	CB161	F07_dCB06	F07_dCB07	121		15				Fair
Social Sciences	CB93	CB90	F07_dCB06	F07_dCB04	122		25				Fair
Support Building	MH31	MH28	F05_dMH04	G05_dMH06	84		20				Fair
Support Building	MH31	MH49A	F05_dMH04	--	85	X					Poor
Support Building	MH30	CB50	F05_dMH02	F05_dCB14	86						Excellent
Support Building	MH30	CB557	F05_dMH02	F05_dCB15	87	X	15				Poor
Support Building	CB557	MH3	F05_dCB15	F05_dMH03	88	X	10				Poor
Support Building	MH3	MH4	F05_dMH03	G05_dMH01	89	X	10				Poor
Support Building	MH9	CB14	G05_dMH04	G05_dCB12	90						Excellent
Support Building	MH9	MH8	G05_dMH04	G05_dMH05	91		20				Fair
Support Building	MH8	CB16	G05_dMH05	G05_dCB13	92		15				Fair
Support Building	MH8	MH6	G05_dMH05	G05_dMH03	93		10				Fair
Support Building	MH6	MH4	G05_dMH03	G05_dMH01	94		15				Fair
Support Building	MH8	MH10	G05_dMH05	G05_dMH07	95				15		Fair

Area	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Page Number	Cracks or Breaks	Blockage (%)	Grease (%)	Sags (%)	Fine Roots	Condition
Support Building	MH5	MH4	G04_dMH02	G05_dMH01	96						Excellent
Support Building	MH1	CB4	F05_dMH01	F05_dCB10	97		40			Y	Poor
Support Building	CB4	CB5	F05_dCB10	F05_dCB11	99		25				Fair
Support Building	CB6	CB3	G05_dCB01	F05_dCB12	105		15				Fair
Support Building	CB6	CB9	G05_dCB01	G05_dCB03	106		15			Y	Fair
Support Building	CB8	CB8A	G05_dCB04	--	107		15				Fair
Support Building	CB7	CB9	G05_dCB02	G05_dCB03	108		Can't open CBs				Poor
Support Building	CB10	CB9	G05_dCB05	G05_dCB03	110		10			Y	Fair
Support Building	CB10	MH4	G05_dCB05	G05_dMH01	111						Excellent
Support Building	MH7	MH6	G05_dMH02	G05_dMH03	112		5				Good
Support Building	MH3	1012	F05_dMH03	G05_dCB06	113		10				Fair
Support Building	CB15	CB16	G05_dCB14	G05_dCB13	114		10				Fair
Support Building	MH28	CB46	G05_dMH06	F05_dCB17	115		10				Fair
Support Building	CB51	CB52	F05_dCB13	F05_dCB16	116		45			Y	Poor
Support Building	CB51	CB49	F05_dCB13	F05_dCB09	118		20				Fair
University Field	MH26	CB45	I06_dMH01	I06_dCB05	135					Y	Good

Area	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Page Number	Cracks or Breaks	Blockage (%)	Grease (%)	Sags (%)	Fine Roots	Condition
University Field	MH26	MH43	I06_dMH01	H07_dMH02	136						Excellent
University Field	MH26	MH113	I06_dMH01	I07_dMH01	137						Excellent
University Field	MH113	CB173	I07_dMH01	I07_dCB06	138						Excellent
University Field	CB173	MH114	I07_dCB06	I07_dMH02	139						Excellent
University Field	MH114	CB359	I07_dMH02	I07_dCB11	140						Excellent
University Field	1053	1052	J07_dMH05	J07_dCB11	141						Excellent
University Field	1052	1050	J07_dCB11	J07_dCB08	142						Excellent
University Field	1050	CB361	J07_dCB08	I07_dCB17	143						Excellent
University Field	CB361	MH115	I07_dCB17	I07_dMH03	144						Excellent
University Field	MH115	CB360	I07_dMH03	I07_dCB12	145						Excellent
University Field	CB360	CB359	I07_dCB12	I07_dCB11	146						Excellent
University Field	1053	CB473	J07_dMH05	J07_dCB19	147						Excellent
University Field	MH75	MH76	I08_dMH04	I08_dMH05	148						Excellent
University Field	MH92	MH76	I08_dMH06	I08_dMH05	149						Excellent
University Field	MH92	MH302	I08_dMH06	J08_dMH01	150						Excellent
University Field	MH302	OUTFALL	J08_dMH01	J03_dOF01	151						Excellent



Area	Start Location (Historic ID)	End Location (Historic ID)	Start Location (New ID)	End Location (New ID)	Page Number	Cracks or Breaks	Blockage (%)	Grease (%)	Sags (%)	Fine Roots	Condition
University Field	1053	CB373	J07_dMH05	J07_dCB14	152						Excellent
University Field	CB180	1052	J07_dMH04	J07_dCB11	153						Excellent
University Field	CB361	CB374	I07_dCB17	J07_dCB06	154	X	45				Poor
University Field	CB359	CB358	I07_dCB11	I07_dCB07	155						Excellent
University Field	MH113	CB362	I07_dMH01	I07_dCB01	156		35				Poor
University Field	MH113	CB172	I07_dMH01	I07_dCB05	158						Excellent
Hammer Throw	MH97	MH96	L08_dMH02	L08_dMH03	Lash		10				Fair
Hammer Throw	MH97	CB128	L08_dMH02	M07_dCB12	Lash	X	30				Poor



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## **APPENDIX C: MANHOLE, CATCH BASIN, DRAIN INLET AND OTHER STORM SEWER APPURTENANCE CONDITIONS**

Table C-1: Sanitary Sewer Manholes .....	C-1
Table C-2: Catch Basins .....	C-6
Table C-3: Drainage Manholes .....	C-30
Table C-4: Drain Inlets .....	C-35
Table C-5: Other Storm Sewer Appurtenances.....	C-48



**Table C-1: Sanitary Sewer Manholes**

Historic Manhole ID	New Manhole ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
Manholes ranking fair, poor, damaged non-functional, blocked, substantially full of or completely full of sediment. They are ranked in terms of condition, beginning with the manhole in the worst condition.																
sMH109	G05_sMH04				X			X				X				X
sMH25	G06_sMH03				X		X				X			X		
sMH36	H06_sMH01				X		X				X			X		
sMH57	G07_sMH05				X		X				X			X		
sMH64	I07_sMH02				X		X				X			X		
sMH56	G07_sMH02				X	X					X				X	
3098	I08_sMH06				X		X			X				X		
sMH122	E08_sMH01				X		X			X				X		
sMH79	I08_sMH03				X		X			X				X		
3176	D03_sMH01				X	X					X			X		
sMH125	F08_sMH03			X			X				X			X		
sMH86	J08_sMH01			X			X				X			X		
1031	H06_sMH02			X			X			X				X		
sMH127	G09_sMH02			X			X			X				X		
sMH130	F09_sMH03			X			X			X				X		
sMH318	K07_sMH01			X			X			X				X		
sMH39	H07_sMH04			X			X			X				X		
sMH73	I07_sMH04			X			X			X				X		
sMH82	H07_sMH05			X			X			X				X		
sMH331	J08_sMH03			X			X				X		X			
sMH193	F07_sMH04			X		X					X			X		
sMH310	H07_sMH06			X		X					X			X		
sMH347	D06_sMH05			X		X					X			X		

Historic Manhole ID	New Manhole ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
sMH351	C06_sMH02			X		X					X			X		
sMH61	H08_sMH04			X		X					X			X		
2695	G07_sMH04			X			X			X			X			
2697	H07_sMH08			X			X			X				X		
3177	D04_sMH01			X			X			X			X			
sMH129	F09_sMH02			X			X			X			X			
sMH140	F10_sMH02			X			X			X			X			
sMH141	F10_sMH03			X			X			X			X			
sMH142	F10_sMH04			X			X			X			X			
sMH33	G06_sMH02			X			X			X			X			
sMH34	G06_sMH04			X			X			X			X			
sMH50	G07_sMH01			X			X			X			X			
sMH72	I07_sMH01			X			X			X			X			
sMH78	I08_sMH05			X			X			X			X			
sMH80	I08_sMH02			X			X			X			X			
sMH87	J08_sMH02			X			X			X			X			
sMH99	J09_sMH02			X			X			X			X			
3179	D04_sMH07			X		X				X				X		
sMH131	D08_sMH02			X		X				X				X		
sMH143	G10_sMH01			X		X				X				X		
sMH20	G05_sMH05			X		X				X				X		
sMH348	C06_sMH01			X		X				X				X		
sMH41	H07_sMH03			X		X			X					X		
sMH14	G05_sMH02			X			X		X				X			
sMH337	H09_sMH06			X			X		X				X			
sMH339	H10_sMH01			X			X		X				X			

Historic Manhole ID	New Manhole ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
sMH46	G06_sMH06			X			X		X				X			
sMH345	D06_sMH07			X		X				X			X			
sMH48	G06_sMH07			X		X				X			X			
sMH85	I08_sMH01			X		X				X			X			
sMH90	I09_sMH01			X		X				X			X			
3173	D04_sMH03			X		X			X					X		
sMH18	G04_sMH03			X		X			X					X		
sMH60	H08_sMH02			X		X			X					X		
sMH27	G05_sMH03		X			X					X		X			
sMH319	K06_sMH02		X			X					X		X			
Below are the remainder of the manholes which were surveyed and were not in fair or poor condition, were not more than partially full of sediment, and that were not blocked or damaged non-functional. They are ranked in terms of condition continuous from the above table																
sMH84	I07_sMH03		X				X			X			X			
sMH145	F11_sMH03		X			X				X				X		
3141	G09_sMH01		X			X				X				X		
3174	D04_sMH04		X			X				X				X		
sMH123	F08_sMH01		X			X				X				X		
sMH199	E07_sMH01		X				X		X				X			
sMH335	I09_sMH04		X				X		X				X			
sMH66	I09_sMH02		X				X		X				X			
3140	G09_sMH03		X			X				X			X			
3144	F09_sMH01		X			X				X			X			
3172	D04_sMH05		X			X				X			X			
sMH101	K09_sMH02		X			X				X			X			
sMH102	K09_sMH03		X			X				X			X			

Historic Manhole ID	New Manhole ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
sMH110	K10_sMH01		X			X				X			X			
sMH117	F07_sMH02		X			X				X			X			
sMH118	F07_sMH03		X			X				X			X			
sMH119	F07_sMH05		X			X				X			X			
sMH128	G09_sMH04		X			X				X			X			
sMH13	F05_sMH03		X			X				X			X			
sMH132	D08_sMH01		X			X				X			X			
sMH133	D08_sMH03		X			X				X			X			
sMH134	D08_sMH04		X			X				X			X			
sMH136	E08_sMH02		X			X				X			X			
sMH137	E09_sMH02		X			X				X			X			
sMH138	E09_sMH03		X			X				X			X			
sMH187	H08_sMH05		X			X				X			X			
sMH189	H08_sMH03		X			X				X			X			
sMH19	G04_sMH04		X			X				X			X			
sMH191	G08_sMH02		X			X				X			X			
sMH192	G07_sMH03		X			X				X			X			
sMH21	G05_sMH06		X			X				X			X			
sMH22	G05_sMH07		X			X				X			X			
sMH23	G05_sMH08		X			X				X			X			
sMH24	G06_sMH01		X			X				X			X			
sMH29	F05_sMH02		X			X				X			X			
sMH313	H07_sMH07		X			X				X			X			
sMH32	F05_sMH04		X			X				X			X			
sMH338	G09_sMH05		X			X				X			X			



Historic Manhole ID	New Manhole ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
sMH343	D06_sMH03		X			X				X			X			
sMH344	D06_sMH04		X			X				X			X			
sMH346	D06_sMH09		X			X				X			X			
sMH349	D06_sMH08		X			X				X			X			
sMH350	D07_sMH01		X			X				X			X			
sMH352	C07_sMH01		X			X				X			X			
sMH37	H06_sMH03		X			X				X			X			
sMH40	H07_sMH02		X			X				X			X			
sMH83	H07_sMH09		X			X				X			X			
sMH88	J08_sMH05		X			X				X			X			
sMH91	J09_sMH01		X			X				X			X			
3146	I09_sMH03		X			X			X				X			
3147	K10_sMH06		X			X			X				X			
3149	K10_sMH05		X			X			X				X			
3175	E04_sMH01		X			X			X				X			
3178	D04_sMH02		X			X			X				X			
3180	D05_sMH01		X			X			X				X			
3181	D04_sMH06		X			X			X				X			
sMH124	F08_sMH02		X			X			X				X			
sMH135	E09_sMH01		X			X			X				X			
sMH15	G05_sMH01		X			X			X				X			
sMH320	K06_sMH01		X			X			X				X			
sMH333	H09_sMH03		X			X			X				X			
2612	K10_sMH03	X				X				X			X			
sMH309	H07_sMH10	X				X				X			X			
sMH144	F11_sMH02	X				X			X				X			
sMH340	H10_sMH02	X				X			X				X			

Table C-2: Catch Basins

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
Below are catch basins ranking fair, poor, damaged non-functional, blocked, substantially full of or completely full of sediment. They are ranked in terms of condition, beginning with the manhole in the worst condition.																	
3009	F06_dCB17				X			X				X					X
dCB299	J10_dCB02				X			X				X					X
dCB391	J08_dCB02				X			X				X					X
dCB25	H05_dCB06				X		X					X					X
dCB14	G05_dCB12				X		X					X				X	
dCB452	L06_dCB04				X		X					X				X	
2783	D04_dCB11				X			X			X			X			
3067	D07_dCB06				X		X				X					X	
dCB118	J07_dCB10				X		X			X						X	
1012	G05_dCB06				X		X					X		X			
2770	E04_dCB03				X		X					X		X			
dCB131	M07_dCB10				X		X				X			X			
3014	E07_dCB01				X	X						X					X
dCB179	E06_dCB14				X	X						X					X
dCB384	I09_dCB04				X	X						X					X
dCB424	J07_dCB01				X	X						X					X
dCB431	J06_dCB02				X	X						X					X
2779	E04_dCB02				X		X				X			X			
2782	D04_dCB12				X		X				X			X			
2784	D04_dCB08				X		X				X			X			
3007	F06_dCB14				X		X				X			X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
3048	C07_dCB03				X		X				X			X			
3049	C07_dCB04				X		X				X			X			
dCB10	G05_dCB05				X		X				X			X			
dCB13	G05_dCB08				X		X				X			X			
dCB13 1	M07_dCB10				X		X				X			X			
dCB15	G05_dCB14				X		X				X			X			
dCB29 1	H08_dCB04				X		X				X			X			
dCB47 6	I08_dCB03				X		X				X			X			
dCB41 4	I06_dCB06				X		X			X					X		
dCB31 1	G09_dCB10				X	X					X					X	
dCB12 1	K07_dCB04				X			X	X						X		
dCB13 6	L07_dCB04				X		X			X				X			
dCB20 2	E08_dCB13				X		X			X				X			
dCB31 4	G09_dCB09				X		X			X				X			
dCB31 5	G10_dCB03				X		X			X				X			
dCB31 6	G10_dCB05				X		X			X				X			
dCB50	F05_dCB14				X		X			X				X			
3076	J10_dCB13				X	X				X						X	
2080	G07_dCB06				X	X						X		X			
3037	C06_dCB13				X	X						X		X			
3196	D04_dCB01				X	X						X		X			
dCB50 8	D07_dCB08				X	X						X		X			
dCB51 0	D07_dCB13				X	X						X		X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB51 <sub>1</sub>	D07_dCB12				X	X						X		X			
dCB52	F05_dCB16				X	X						X		X			
1052	J07_dCB11				X	X					X			X			
2785	D04_dCB06				X	X					X			X			
2786	D04_dCB07				X	X					X			X			
2787	D04_dCB10				X	X					X			X			
3017	E06_dCB07				X	X					X			X			
3018	D06_dCB04				X	X					X			X			
3046	C07_dCB02				X	X					X			X			
dCB46	F05_dCB17				X	X					X			X			
dCB72	G07_dCB03				X		X			X			X				
dCB35 <sub>9</sub>	I07_dCB11				X		X		X					X			
dCB36 <sub>0</sub>	I07_dCB12				X		X		X					X			
dCB36 <sub>1</sub>	I07_dCB17				X		X		X					X			
1041	I06_dCB07			X			X				X			X			
1998	G05_dCB09			X			X				X			X			
3026	E06_dCB02			X			X				X			X			
3027	E06_dCB01			X			X				X			X			
dCB11	G04_dCB11			X			X				X			X			
dCB12 <sub>7</sub>	M07_dCB01			X			X				X			X			
dCB13 <sub>9</sub>	M08_dCB03			X			X				X			X			
dCB27 <sub>8</sub>	I09_dCB15			X			X				X			X			
dCB29	I05_dCB01			X			X				X			X			
dCB30 <sub>1</sub>	E06_dCB16			X			X				X			X			
dCB30	E06_dCB11			X			X				X			X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2																	
dCB355	F09_dCB04			X			X				X			X			
dCB407	C08_dCB05			X			X				X			X			
dCB144	M09_dCB01			X		X				X			X				
dCB141	M08_dCB05			X		X				X				X			
dCB132	M07_dCB05			X		X				X				X			
dCB460	M07_dCB03			X		X				X				X			
dCB128	M07_dCB12			X			X		X				X				
dCB147	M09_dCB05			X			X			X				X			
dCB140	M08_dCB04			X			X			X				X			
dCB138	M08_dCB02			X			X			X				X			
dCB139	M08_dCB03			X			X				X			X			
dCB127	M07_dCB01			X			X				X			X			
dCB432	J06_dCB03			X			X				X			X			
dCB442	K06_dCB03			X			X				X			X			
dCB481	D08_dCB03			X			X				X			X			
dCB504	E07_dCB22			X			X				X			X			
dCB518	E08_dCB02			X			X				X			X			
dCB525	J09_dCB04			X			X				X			X			
dCB531	H09_dCB04			X			X				X			X			
3023	E06_dCB04			X			X				X		X				

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
3028	D06_dCB03			X			X				X		X				
3191	D04_dCB16			X			X				X		X				
3192	D04_dCB17			X			X				X		X				
dCB33	I06_dCB01			X			X				X		X				
2430	F09_dCB25			X			X			X				X			
3070	C08_dCB02			X			X			X				X			
3132	H10_dCB12			X			X			X				X			
dCB107	K07_dCB06			X			X			X				X			
dCB12	G05_dCB07			X			X			X				X			
dCB138	M08_dCB02			X			X			X				X			
dCB140	M08_dCB04			X			X			X				X			
dCB147	M09_dCB05			X			X			X				X			
dCB173	I07_dCB06			X			X			X				X			
dCB185	D08_dCB07			X			X			X				X			
dCB19	G04_dCB10			X			X			X				X			
dCB203	E08_dCB14			X			X			X				X			
dCB21	G04_dCB09			X			X			X				X			
dCB223	F08_dCB06			X			X			X				X			
dCB228	G09_dCB01			X			X			X				X			
dCB230	G09_dCB08			X			X			X				X			
dCB231	G09_dCB06			X			X			X				X			
dCB282	F08_dCB02			X			X			X				X			
dCB294	I09_dCB16			X			X			X				X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB463	J08_dCB11			X			X			X				X			
dCB467	K07_dCB05			X			X			X				X			
dCB468	K07_dCB08			X			X			X				X			
dCB488	E07_dCB08			X			X			X				X			
dCB514	D07_dCB17			X			X			X				X			
dCB523	K09_dCB04			X			X			X				X			
dCB524	K09_dCB05			X			X			X				X			
dCB532	H09_dCB02			X			X			X				X			
dCB7	G05_dCB02			X			X			X				X			
dCB71	G07_dCB07			X			X			X				X			
dCB123	L06_dCB05			X			X			X			X				
dCB165	G07_dCB08			X			X			X			X				
dCB20	G04_dCB08			X			X			X			X				
dCB234	E09_dCB11			X			X			X			X				
dCB24	H05_dCB05			X			X			X			X				
dCB27	H05_dCB07			X			X			X			X				
dCB313	G10_dCB04			X			X			X			X				
dCB320	G10_dCB09			X			X			X			X				
dCB42	H06_dCB02			X			X			X			X				
dCB425	J07_dCB09			X			X			X			X				
dCB557	F05_dCB15			X			X			X			X				
dCB79	H07_dCB05			X			X			X			X				

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB98	I08_dCB01			X			X			X			X				
3165	F09_dCB20			X			X		X					X			
dCB522	J09_dCB02			X			X		X					X			
dCB539	I09_dCB08			X			X		X					X			
dCB128	M07_dCB12			X			X		X				X				
dCB206	E09_dCB07			X			X		X				X				
dCB451	L06_dCB02			X		X						X		X			
1001	G05_dCB10			X		X					X			X			
1051	J07_dCB05			X		X					X			X			
1054	J07_dCB18			X		X					X			X			
1055	J07_dCB17			X		X					X			X			
1056	J07_dCB15			X		X					X			X			
1061	J08_dCB08			X		X					X			X			
1062	J08_dCB05			X		X					X			X			
1063	J08_dCB03			X		X					X			X			
1064	J08_dCB01			X		X					X			X			
2777	D04_dCB15			X		X					X			X			
2778	D04_dCB14			X		X					X			X			
3000	F06_dCB04			X		X					X			X			
3015	D06_dCB08			X		X					X			X			
3016	D06_dCB07			X		X					X			X			
3019	E06_dCB10			X		X					X			X			
3020	E06_dCB06			X		X					X			X			
3021	E06_dCB08			X		X					X			X			
3025	E06_dCB03			X		X					X			X			
3033	C06_dCB11			X		X					X			X			



Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
3081	K10_dCB06			X		X					X			X			
3082	K10_dCB04			X		X					X			X			
3087	J10_dCB04			X		X					X			X			
3088	H09_dCB15			X		X					X			X			
3106	D09_dCB02			X		X					X			X			
3121	E08_dCB11			X		X					X			X			
dCB117	J07_dCB07			X		X					X			X			
dCB162	F07_dCB10			X		X					X			X			
dCB164	F07_dCB09			X		X					X			X			
dCB18	G05_dCB15			X		X					X			X			
dCB191	E08_dCB04			X		X					X			X			
dCB192	E08_dCB08			X		X					X			X			
dCB219	F11_dCB03			X		X					X			X			
dCB23	H05_dCB04			X		X					X			X			
dCB293	I09_dCB17			X		X					X			X			
dCB298	E06_dCB13			X		X					X			X			
dCB310	G09_dCB11			X		X					X			X			
dCB312	G10_dCB02			X		X					X			X			
dCB342	E09_dCB03			X		X					X			X			
dCB362	I07_dCB01			X		X					X			X			
dCB422	J07_dCB03			X		X					X			X			
dCB423	J07_dCB02			X		X					X			X			
dCB43	J06_dCB01			X		X					X			X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
0																	
dCB469	K08_dCB04			X		X					X			X			
dCB478	I09_dCB07			X		X					X			X			
dCB480	D08_dCB02			X		X					X			X			
dCB485	E07_dCB14			X		X					X			X			
dCB486	E07_dCB13			X		X					X			X			
dCB491	E07_dCB11			X		X					X			X			
dCB492	E07_dCB06			X		X					X			X			
dCB495	D07_dCB10			X		X					X			X			
dCB496	E07_dCB07			X		X					X			X			
dCB499	E07_dCB17			X		X					X			X			
dCB500	E07_dCB19			X		X					X			X			
dCB506	F07_dCB08			X		X					X			X			
dCB51	F05_dCB13			X		X					X			X			
dCB515	D07_dCB15			X		X					X			X			
dCB519	E07_dCB24			X		X					X			X			
dCB521	K10_dCB02			X		X					X			X			
dCB53	F06_dCB02			X		X					X			X			
dCB530	K09_dCB01			X		X					X			X			
dCB54	F06_dCB01			X		X					X			X			
dCB547	H10_dCB09			X		X					X			X			
dCB6	G05_dCB01			X		X					X			X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB608	E06_dCB15			X		X					X			X			
dCB65	G07_dCB02			X		X					X			X			
dCB66	G07_dCB01			X		X					X			X			
dCB275	H10_dCB14			X		X					X			X			
dCB85	H08_dCB05			X		X					X			X			
dCB9	G05_dCB03			X		X					X			X			
dCB91	F07_dCB05			X		X					X			X			
dCB93	F07_dCB06			X		X					X			X			
3034	C06_dCB07			X		X					X		X				
3040	C06_dCB16			X		X					X		X				
3187	D04_dCB03			X		X					X		X				
2051	I06_dCB03			X		X					X		X				
3188	D04_dCB04			X		X					X		X				
3189	D04_dCB02			X		X					X		X				
3194	D04_dCB18			X		X					X		X				
dCB120	K07_dCB01			X		X					X		X				
dCB387	I09_dCB03			X		X				X						X	
dCB461	L10_dCB02			X		X				X						X	
2780	E04_dCB01			X		X				X				X			
2781	D04_dCB13			X		X				X				X			
3030	D06_dCB02			X		X				X				X			
3032	D06_dCB06			X		X				X				X			
3042	C07_dCB01			X		X				X				X			
3043	C06_dCB14			X		X				X				X			
3044	C06_dCB12			X		X				X				X			
3050	D07_dCB02			X		X				X				X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
3072	J09_dCB03			X		X				X				X			
3089	H09_dCB10			X		X				X				X			
3112	E08_dCB07			X		X				X				X			
3166	F09_dCB21			X		X				X				X			
3200	D04_dCB22			X		X				X				X			
dCB110	K06_dCB06			X		X				X				X			
dCB124	L07_dCB02			X		X				X				X			
dCB132	M07_dCB05			X		X				X				X			
dCB141	M08_dCB05			X		X				X				X			
dCB152	K10_dCB03			X		X				X				X			
dCB155	J10_dCB03			X		X				X				X			
dCB184	D08_dCB08			X		X				X				X			
dCB232	G09_dCB07			X		X				X				X			
dCB319	G10_dCB08			X		X				X				X			
dCB356	E09_dCB05			X		X				X				X			
dCB358	I07_dCB07			X		X				X				X			
dCB363	I07_dCB03			X		X				X				X			
dCB364	I07_dCB02			X		X				X				X			
dCB369	I07_dCB15			X		X				X				X			
dCB370	I07_dCB19			X		X				X				X			
dCB372	I07_dCB18			X		X				X				X			
dCB375	J07_dCB04			X		X				X				X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB389	J08_dCB09			X		X				X				X			
dCB390	J08_dCB07			X		X				X				X			
dCB401	I07_dCB20			X		X				X				X			
dCB405	F06_dCB15			X		X				X				X			
dCB410	D08_dCB05			X		X				X				X			
dCB428	J06_dCB06			X		X				X				X			
dCB440	K06_dCB01			X		X				X				X			
dCB460	M07_dCB03			X		X				X				X			
dCB464	J08_dCB10			X		X				X				X			
dCB5	F05_dCB11			X		X				X				X			
dCB512	D07_dCB11			X		X				X				X			
dCB520	K10_dCB01			X		X				X				X			
dCB526	K09_dCB06			X		X				X				X			
dCB535	H09_dCB14			X		X				X				X			
dCB544	H09_dCB19			X		X				X				X			
dCB552	H09_dCB18			X		X				X				X			
dCB554	H09_dCB17			X		X				X				X			
dCB555	H09_dCB13			X		X				X				X			
dCB63	G06_dCB01			X		X				X				X			
dCB75	G07_dCB09			X		X				X				X			
dCB76	G07_dCB10			X		X				X				X			
dCB90	F07_dCB04			X		X				X				X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
3036	C06_dCB10			X		X				X			X				
3057	D07_dCB05			X		X				X			X				
3077	J10_dCB12			X		X				X			X				
3110	E08_dCB05			X		X				X			X				
3193	D04_dCB21			X		X				X			X				
dCB112	K06_dCB07			X		X				X			X				
dCB119	K07_dCB03			X		X				X			X				
dCB144	M09_dCB01			X		X				X			X				
dCB154	J10_dCB10			X		X				X			X				
dCB365	I07_dCB04			X		X				X			X				
dCB441	K06_dCB02			X		X				X			X				
dCB333	G11_dCB02			X		X			X					X			
dCB413	I06_dCB08			X		X			X					X			
dCB527	K09_dCB07			X		X			X					X			
dCB536	H09_dCB09			X		X			X					X			
dCB553	H10_dCB01			X		X			X					X			
3199	D04_dCB20		X				X				X		X				
3012	E07_dCB02		X			X					X			X			
dCB145	M09_dCB02		X			X					X			X			
dCB181	C08_dCB07		X			X					X			X			
dCB39	H05_dCB11		X			X					X			X			
dCB404	F06_dCB09		X			X					X			X			
dCB41	D08_dCB10		X			X					X			X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
1																	
dCB45	I06_dCB05		X			X					X			X			
dCB46 2	L10_dCB03		X			X					X			X			
dCB48 2	F06_dCB10		X			X					X			X			
dCB48 3	F06_dCB11		X			X					X			X			
dCB48 4	F06_dCB13		X			X					X			X			
dCB50 3	E07_dCB20		X			X					X			X			
dCB50 7	D08_dCB04		X			X					X			X			
dCB50 9	D07_dCB09		X			X					X			X			
dCB51 3	D08_dCB01		X			X					X			X			
dCB52 9	K09_dCB02		X			X					X			X			
dCB54 9	H10_dCB05		X			X					X			X			
dCB60	G06_dCB06		X			X					X			X			
dCB95	H07_dCB02		X			X					X			X			
3011	F06_dCB19		X			X					X		X				
3024	E06_dCB05		X			X					X		X				
3029	D06_dCB01		X			X					X		X				
3035	C06_dCB06		X			X					X		X				
3039	C06_dCB15		X			X					X		X				
3051	D07_dCB01		X			X					X		X				
3061	D07_dCB03		X			X					X		X				
3190	D04_dCB09		X			X					X		X				
3198	D04_dCB19		X			X					X		X				

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB113	K06_dCB08		X			X					X		X				
dCB69	H06_dCB05		X			X					X		X				
Below are the remainder of the catch basins which were surveyed and were not in fair or poor condition, were not more than partially full of sediment, and that were not surcharging, blocked, or damaged non-functional. They are ranked in terms of condition continuous from the above table																	
dCB153	J10_dCB09		X				X			X			X				
dCB229	G09_dCB05		X				X			X			X				
dCB235	F11_dCB07		X				X			X			X				
dCB240	G11_dCB06		X				X			X			X				
dCB325	G10_dCB15		X				X			X			X				
dCB406	F06_dCB18		X				X			X			X				
dCB41	H06_dCB01		X				X			X			X				
dCB62	G06_dCB04		X				X			X			X				
dCB77	G07_dCB11		X				X			X			X				
dCB187	D08_dCB11		X				X		X				X				
dCB210	E09_dCB10		X				X		X				X				
dCB217	F11_dCB02		X				X		X				X				
dCB324	G10_dCB16		X				X		X				X				
dCB145	M09_dCB02		X			X					X			X			
dCB143	M08_dCB08		X			X				X			X				
dCB142	M08_dCB06		X			X				X			X				
dCB137	M08_dCB01		X			X				X			X				



Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB129	M07_dCB11		X			X				X			X				
dCB157	M07_dCB09		X			X				X			X				
dCB459	M07_dCB07		X			X				X				X			
dCB133	M07_dCB04		X			X				X			X				
3005	F06_dCB03		X			X				X				X			
3006	F06_dCB07		X			X				X				X			
3069	C07_dCB05		X			X				X				X			
3074	K10_dCB08		X			X				X				X			
3102	F07_dCB02		X			X				X				X			
3108	E09_dCB02		X			X				X				X			
3125	G10_dCB11		X			X				X				X			
3126	G10_dCB10		X			X				X				X			
3129	G10_dCB07		X			X				X				X			
3139	G09_dCB04		X			X				X				X			
dCB166	E08_dCB09		X			X				X				X			
dCB168	D07_dCB16		X			X				X				X			
dCB189	E08_dCB03		X			X				X				X			
dCB209	E09_dCB09		X			X				X				X			
dCB214	E10_dCB05		X			X				X				X			
dCB216	F11_dCB01		X			X				X				X			
dCB220	F08_dCB03		X			X				X				X			
dCB225	F08_dCB08		X			X				X				X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB226	F08_dCB04		X			X				X				X			
dCB26	H05_dCB09		X			X				X				X			
dCB28	H05_dCB08		X			X				X				X			
dCB296	F06_dCB08		X			X				X				X			
dCB328	G10_dCB17		X			X				X				X			
dCB332	F11_dCB06		X			X				X				X			
dCB340	H10_dCB17		X			X				X				X			
dCB366	I07_dCB08		X			X				X				X			
dCB385	I09_dCB12		X			X				X				X			
dCB40	H05_dCB10		X			X				X				X			
dCB409	D08_dCB06		X			X				X				X			
dCB454	L08_dCB01		X			X				X				X			
dCB459	M07_dCB07		X			X				X				X			
dCB487	E07_dCB12		X			X				X				X			
dCB489	E07_dCB09		X			X				X				X			
dCB493	E07_dCB05		X			X				X				X			
dCB501	E07_dCB18		X			X				X				X			
dCB502	E07_dCB21		X			X				X				X			
dCB505	F07_dCB03		X			X				X				X			
dCB516	E07_dCB23		X			X				X				X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB528	K09_dCB03		X			X				X				X			
dCB533	H09_dCB03		X			X				X				X			
dCB537	I09_dCB05		X			X				X				X			
dCB538	I09_dCB06		X			X				X				X			
dCB540	I09_dCB09		X			X				X				X			
dCB542	I09_dCB11		X			X				X				X			
dCB543	I09_dCB13		X			X				X				X			
dCB546	H10_dCB08		X			X				X				X			
dCB556	H09_dCB06		X			X				X				X			
dCB59	F06_dCB16		X			X				X				X			
dCB61	G06_dCB02		X			X				X				X			
1999	G05_dCB11		X			X				X			X				
2061	L06_dCB06		X			X				X			X				
2708	H07_dCB03		X			X				X			X				
dCB472	C08_dMH05		X			X				X			X				
dCB2	G04_dCB04		X			X				X			X				
3078	J10_dCB11		X			X				X			X				
3001	F06_dCB06		X			X				X			X				
3003	E06_dCB09		X			X				X			X				
3031	D06_dCB05		X			X				X			X				
3060	D07_dCB04		X			X				X			X				
3068	D07_dCB07		X			X				X			X				

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
3079	J10_dCB14		X			X				X			X				
3080	K10_dCB05		X			X				X			X				
3083	J10_dCB05		X			X				X			X				
3086	J10_dCB08		X			X				X			X				
3091	I09_dCB10		X			X				X			X				
3105	E09_dCB01		X			X				X			X				
3119	E08_dCB12		X			X				X			X				
3123	H10_dCB04		X			X				X			X				
3142	G09_dCB03		X			X				X			X				
3197	D04_dCB05		X			X				X			X				
dCB11 1	K06_dCB04		X			X				X			X				
dCB11 5	K06_dCB12		X			X				X			X				
dCB11 6	K06_dCB14		X			X				X			X				
dCB12 2	K06_dCB15		X			X				X			X				
dCB12 5	L07_dCB01		X			X				X			X				
dCB12 6	L07_dCB03		X			X				X			X				
dCB12 9	M07_dCB11		X			X				X			X				
dCB13 3	M07_dCB04		X			X				X			X				
dCB13 7	M08_dCB01		X			X				X			X				
dCB14 2	M08_dCB06		X			X				X			X				
dCB14 3	M08_dCB08		X			X				X			X				
dCB15 6	J10_dCB01		X			X				X			X				

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB157	M07_dCB09		X			X				X			X				
dCB16	G05_dCB13		X			X				X			X				
dCB17	H05_dCB01		X			X				X			X				
dCB172	I07_dCB05		X			X				X			X				
dCB194	E08_dCB10		X			X				X			X				
dCB215	F10_dCB04		X			X				X			X				
dCB22	H05_dCB03		X			X				X			X				
dCB224	F08_dCB05		X			X				X			X				
dCB233	F10_dCB02		X			X				X			X				
dCB236	H10_dCB19		X			X				X			X				
dCB237	H10_dCB20		X			X				X			X				
dCB238	G11_dCB09		X			X				X			X				
dCB239	G11_dCB05		X			X				X			X				
dCB290	H09_dCB01		X			X				X			X				
dCB295	H08_dCB06		X			X				X			X				
dCB32	I06_dCB04		X			X				X			X				
dCB326	G10_dCB13		X			X				X			X				
dCB327	G10_dCB14		X			X				X			X				
dCB329	G11_dCB01		X			X				X			X				
dCB330	F11_dCB09		X			X				X			X				
dCB33	F11_dCB08		X			X				X			X				

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
1																	
dCB334	G11_dCB03		X			X				X			X				
dCB336	G11_dCB07		X			X				X			X				
dCB337	H11_dCB02		X			X				X			X				
dCB338	H11_dCB01		X			X				X			X				
dCB339	H10_dCB18		X			X				X			X				
dCB341	G11_dCB08		X			X				X			X				
dCB35	H05_dCB12		X			X				X			X				
dCB350	F09_dCB12		X			X				X			X				
dCB351	F09_dCB24		X			X				X			X				
dCB36	H05_dCB13		X			X				X			X				
dCB371	I07_dCB21		X			X				X			X				
dCB373	J07_dCB14		X			X				X			X				
dCB383	I09_dCB02		X			X				X			X				
dCB388	J09_dCB01		X			X				X			X				
dCB403	H05_dCB02		X			X				X			X				
dCB408	C08_dCB04		X			X				X			X				
dCB412	I06_dCB09		X			X				X			X				
dCB427	J06_dCB05		X			X				X			X				
dCB433	J06_dCB04		X			X				X			X				

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB44	G06_dCB05		X			X				X			X				
dCB44 8	K06_dCB13		X			X				X			X				
dCB44 9	L06_dCB01		X			X				X			X				
dCB45 0	L06_dCB03		X			X				X			X				
dCB46 5	J07_dCB12		X			X				X			X				
dCB47 4	J08_dCB06		X			X				X			X				
dCB47 9	K07_dCB02		X			X				X			X				
dCB54 8	H10_dCB06		X			X				X			X				
dCB55	F06_dCB05		X			X				X			X				
dCB55 0	H10_dCB03		X			X				X			X				
dCB55 1	H10_dCB02		X			X				X			X				
dCB58	F06_dCB20		X			X				X			X				
dCB64	G06_dCB03		X			X				X			X				
dCB67	G06_dCB08		X			X				X			X				
dCB68	G06_dCB09		X			X				X			X				
dCB70	H06_dCB06		X			X				X			X				
dCB81	H08_dCB01		X			X				X			X				
dCB82	H08_dCB03		X			X				X			X				
dMH17 3	F10_dCB01		X			X				X			X				
3010	F06_dCB12		X			X			X					X			
3127	G10_dCB12		X			X			X					X			
dCB11 4	K06_dCB11		X			X			X					X			

Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB174	C08_dCB03		X			X			X					X			
dCB497	E07_dCB16		X			X			X					X			
dCB498	E07_dCB15		X			X			X					X			
dCB517	E08_dCB01		X			X			X					X			
dCB534	H09_dCB05		X			X			X					X			
dCB541	H09_dCB16		X			X			X					X			
dCB545	H10_dCB07		X			X			X					X			
dMH339	H09_dCB08		X			X			X					X			
1050	J07_dCB08		X			X			X				X				
3090	H09_dDI17		X			X			X				X				
3135	C08_dCB01		X			X			X				X				
3092	H09_dCB07		X			X			X				X				
3093	H09_dCB11		X			X			X				X				
3101	F07_dCB01		X			X			X				X				
3143	G09_dCB02		X			X			X				X				
dCB180	J07_dCB20		X			X			X				X				
dCB151	K10_dCB07		X			X			X				X				
dCB167	F08_dCB01		X			X			X				X				
dCB170	D07_dCB14		X			X			X				X				
dCB186	D08_dCB09		X			X			X				X				
dCB205	E09_dCB04		X			X			X				X				



Catch Basins Historic ID	Catch Basins New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
dCB207	E09_dCB08		X			X			X				X				
dCB208	E09_dCB06		X			X			X				X				
dCB211	E10_dCB01		X			X			X				X				
dCB212	E10_dCB02		X			X			X				X				
dCB213	E10_dCB03		X			X			X				X				
dCB276	H10_dCB10		X			X			X				X				
dCB335	G11_dCB04		X			X			X				X				
dCB37	H06_dCB03		X			X			X				X				
dCB84	H08_dCB02		X			X			X				X				
3084	J10_dCB07	X				X			X				X				
3085	J10_dCB06	X				X			X				X				
dCB43	G06_dCB07	X				X			X				X				

**Table C-3: Drainage Manholes**

Drainage Mahole Historic ID	Drainage Manhole New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked	
Below are drainage manholes ranking fair, poor, damaged non-functional, blocked, substantially full of or completely full of sediment. They are ranked in terms of condition, beginning with the drainage manhole in the worst condition.																	
dMH12	G04_dMH01				X		X				X			X			
dMH30	F05_dMH02				X		X				X			X			
dMH172	F09_dMH01				X		X			X				X			
dMH207	G10_dMH01				X		X			X				X			
dMH28	G05_dMH06				X	X						X		X			
dMH200	E07_dMH04				X	X				X				X			
dMH170	E08_dMH03			X			X				X			X			
dMH4	G05_dMH01			X			X				X			X			
dMH9	G05_dMH04			X			X				X			X			
2081	G07_dMH03			X			X			X				X			
3041	C07_dMH01			X			X			X				X			
3122	F08_dMH01			X			X			X				X			
3171	D04_dMH01			X			X			X				X			
dMH161	E08_dMH02			X			X			X				X			
dMH194	F07_dMH02			X			X			X				X			
dMH213	I08_dMH08			X			X			X				X			
dMH215	I08_dMH09			X			X			X				X			
dMH216	J08_dMH02			X			X			X				X			
dMH322	J06_dMH02			X			X			X				X			
dMH325	I06_dMH03			X			X			X				X			
dMH333	K10_dMH03			X			X			X				X			
dMH92	I08_dMH06			X			X			X				X			
dMH96	L08_dMH03			X			X			X				X			
dMH323	J06_dMH01			X			X				X		X				

Drainage Mahole Historic ID	Drainage Manhole New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
dMH1	F05_dMH01			X		X					X			X		
dMH10	G05_dMH07			X		X					X			X		
dMH164	D08_dMH05			X		X					X			X		
dMH209	F10_dMH01			X		X					X			X		
dMH31	F05_dMH04			X		X					X			X		
dMH312	H07_dMH04			X		X					X			X		
dMH327	D08_dMH02			X		X					X			X		
dMH330	E07_dMH02			X		X					X			X		
dMH340	H09_dMH01			X		X					X			X		
dMH8	G05_dMH05			X		X					X			X		
dMH108	J07_dMH03			X			X			X			X			
dMH155	G07_dMH04			X			X			X			X			
dMH324	I06_dMH02			X			X			X			X			
dMH328	D08_dMH01			X			X			X			X			
dMH75	I08_dMH04			X			X			X			X			
dMH169	E08_dMH05			X			X		X					X		
1053	J07_dMH05			X		X				X				X		
3013	E07_dMH01			X		X				X				X		
dCB104	K08_dMH01			X		X				X				X		
dMH113	I07_dMH01			X		X				X				X		
dMH179	H08_dMH10			X		X				X				X		
dMH210	F10_dMH03			X		X				X				X		
dMH306	H08_dMH07			X		X				X				X		
dMH307	H08_dMH03			X		X				X				X		
dMH54	G07_dMH02			X		X				X				X		
dMH70	J08_dMH05			X		X				X				X		
dMH6	G05_dMH03			X		X					X		X			
3195	D04_dMH02			X		X				X			X			

Drainage Mahole Historic ID	Drainage Manhole New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
dMH301	J07_dMH02		X			X					X			X		
dMH208	G09_dMH01		X			X					X		X			

Below are the remainder of the drainage manholes which were surveyed and were not in fair or poor condition, were not more than partially full of sediment, and that were not surcharging, blocked, or damaged non-functional. They are ranked in terms of condition continuous from the above table.

dMH211	F10_dMH05		X				X			X			X			
dMH315	H08_dMH01		X				X			X			X			
dMH97	L08_dMH02		X				X			X			X			
3004	F06_dMH01		X			X				X				X		
3096	J07_dMH01		X			X				X				X		
3128	G10_dMH05		X			X				X				X		
3148	K10_dMH04		X			X				X				X		
dMH178	I09_dMH04		X			X				X				X		
dMH214	I09_dMH01		X			X				X				X		
dMH331	K10_dMH01		X			X				X				X		
dMH332	K10_dMH02		X			X				X				X		
dMH336	I09_dMH05		X			X				X				X		
dMH338	H09_dMH03		X			X				X				X		
dMH190	H08_dMH05		X				X		X				X			
3047	C07_dMH02		X			X				X			X			
3058	D06_dMH01		X			X				X			X			
3059	D07_dMH01		X			X				X			X			
3075	K10_dMH05		X			X				X			X			
3111	E08_dMH01		X			X				X			X			
3120	E08_dMH04		X			X				X			X			
3131	G12_dMH01		X			X				X			X			
3201	D04_dMH04		X			X				X			X			
dCB183	D08_dMH04		X			X				X			X			

Drainage Mahole Historic ID	Drainage Manhole New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
dMH105	J10_dMH01		X			X				X			X			
dMH153	F07_dMH01		X			X				X			X			
dMH154	F07_dMH03		X			X				X			X			
dMH162	D08_dMH07		X			X				X			X			
dMH165	D08_dMH08		X			X				X			X			
dMH166	E09_dMH01		X			X				X			X			
dMH167	E09_dMH02		X			X				X			X			
dMH180	H08_dMH06		X			X				X			X			
dMH182	G07_dMH06		X			X				X			X			
dMH195	F06_dMH03		X			X				X			X			
dMH196	E06_dMH01		X			X				X			X			
dMH205	G10_dMH02		X			X				X			X			
dMH206	G10_dMH03		X			X				X			X			
dMH212	F10_dMH06		X			X				X			X			
dMH311	H07_dMH03		X			X				X			X			
dMH314	H08_dMH02		X			X				X			X			
dCB472	C08_dMH05		X			X				X			X			
dMH316	G08_dMH02		X			X				X			X			
dMH334	K09_dMH01		X			X				X			X			
dMH337	H10_dMH01		X			X				X			X			
dMH42	H07_dMH01		X			X				X			X			
dMH44	H06_dMH01		X			X				X			X			
dMH45	G06_dMH03		X			X				X			X			
dMH5	G04_dMH02		X			X				X			X			
dMH51	G06_dMH01		X			X				X			X			
dMH52	F06_dMH05		X			X				X			X			
dMH68	I09_dMH03		X			X				X			X			
dMH69	J08_dMH03		X			X				X			X			

Drainage Mahole Historic ID	Drainage Manhole New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
dMH7	G05_dMH02		X			X				X			X			
dMH76	I08_dMH05		X			X				X			X			
dMH77	I08_dMH03		X			X				X			X			
dMH163	D08_dMH06		X			X			X					X		
dMH329	D07_dMH02		X			X			X					X		
dMH335	H09_dMH02		X			X			X					X		
dMH67	I09_dMH02		X			X			X					X		
dMH93	K07_dMH01		X			X			X					X		
3002	F06_dMH02		X			X			X				X			
3008	F06_dMH04		X			X			X				X			
dMH184	H10_dMH02		X			X			X				X			
dMH11	G04_dMH03		X			X			X				X			
dMH112	H08_dMH04		X			X			X				X			
dMH168	E08_dMH06		X			X			X				X			
dMH304	I08_dMH01	X				X				X				X		
3202	D04_dMH03	X				X			X				X			
3206	E04_dMH01	X				X			X				X			
dMH3	F05_dMH03	X				X			X				X			

**Table C-4: Drain Inlets**

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
Below are drain inlets ranking fair, poor, damaged non-functional, blocked, substantially full of or completely full of sediment. They are ranked in terms of condition, beginning with the drain inlet in the worst condition.																	
2109	G08_dDI35				X		X					X					X
2254	F07_dDI03				X		X					X				X	
2413	F10_dDI02				X		X					X				X	
2414	F10_dDI04				X		X					X				X	
dCB419	J07_dDI03				X		X					X			X		
2091	G06_dDI02				X		X					X		X			
2232	H08_dDI63				X		X			X						X	
2093	H06_dDI01				X	X						X					X
2210	H08_dDI60				X	X						X				X	
2258	F07_dDI07				X	X						X					X
2259	F07_dDI08				X	X						X					X
2260	F07_dDI05				X	X						X					X
2261	F07_dDI04				X	X						X					X
2263	F07_dDI06				X	X						X					X
2265	F08_dDI15				X	X						X					X
2266	F08_dDI12				X	X						X					X
2268	F08_dDI07				X	X						X					X
2272	F08_dDI05				X	X						X					X
2273	F08_dDI08				X	X						X					X
2231	H08_dDI62				X		X				X			X			

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2313	G08_dDI58				X		X				X			X			
2329	H09_dDI15				X		X				X			X			
2384	I08_dCB05				X		X				X			X			
2388	I08_dDI13				X		X				X			X			
2401	I08_dCB02				X		X				X			X			
2404	F10_dCB03				X		X				X			X			
2418	F10_dDI13				X		X				X			X			
2419	F10_dDI07				X		X				X			X			
2420	F10_dDI10				X		X				X			X			
2423	F10_dDI14				X		X				X			X			
2106	G08_dDI30				X	X					X					X	
2107	G08_dDI33				X	X					X						X
2108	G08_dDI34				X	X					X						X
2338	G09_dDI21				X	X					X					X	
2382	I08_dCB06				X	X					X					X	
2112	G08_dDI36				X		X			X				X			
2233	H08_dDI61				X		X			X				X			
2328	H09_dDI14				X		X			X				X			
2262	F08_dDI18				X	X						X		X			
2271	F08_dDI06				X	X						X		X			
2341	G09_dDI19				X	X						X		X			
2347	G09_dDI15				X	X						X		X			
2425	F10_dDI17				X	X						X		X			
2603	J08_dDI04				X	X						X		X			



Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2086	G07_dDI02				X	X				X							X
2264	F08_dDI13				X	X					X			X			
2267	F08_dDI10				X	X					X			X			
2269	F08_dDI11				X	X					X			X			
2270	F08_dDI09				X	X					X			X			
2288	F08_dDI04				X	X					X			X			
2289	F08_dDI02				X	X					X			X			
2331	H09_dDI10				X	X					X			X			
2332	H09_dDI11				X	X					X			X			
2333	H09_dDI08				X	X					X			X			
2334	H09_dDI06				X	X					X			X			
2335	H09_dDI05				X	X					X			X			
2339	G09_dDI20				X	X					X			X			
2340	G09_dDI18				X	X					X			X			
2416	F10_dDI06				X	X					X			X			
2422	F10_dDI08				X	X					X			X			
2300	F08_dDI25				X		X			X			X				
2110	G08_dDI38				X	X						X	X				
2327	H09_dDI13			X			X				X			X			
2111	G08_dDI31			X			X			X				X			
2251	G08_dDI06			X			X			X				X			
2287	F08_dDI16			X			X			X				X			
2360	G08_dDI72			X			X			X				X			
2365	G08_dDI37			X			X			X				X			

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2371	G08_dDI15			X			X			X				X			
2372	G08_dDI19			X			X			X				X			
2378	G09_dDI22			X			X			X				X			
2379	G09_dDI23			X			X			X				X			
2241	G08_dDI60			X			X			X			X				
2250	G08_dDI10			X			X			X			X				
2291	F08_dDI03			X			X			X			X				
2293	F08_dDI21			X			X			X			X				
2294	F08_dDI23			X			X			X			X				
2296	F08_dDI26			X			X			X			X				
2302	F08_dDI31			X			X			X			X				
2305	F08_dDI34			X			X			X			X				
2314	G08_dDI59			X			X			X			X				
2351	G09_dDI11			X			X			X			X				
2352	G08_dDI75			X			X			X			X				
2387	I08_dDI14			X			X			X			X				
2415	F10_dDI01			X			X			X			X				
2601	J08_dDI02			X			X			X			X				
2745	K08_dDI01			X			X			X			X				
2381	G09_dDI25			X			X		X					X			
dCB415	I06_dDI01			X		X						X		X			
2094	H07_dDI02			X		X					X			X			
2190	H08_dDI25			X		X					X			X			
2206	H08_dDI48			X		X					X			X			

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2211	H08_dDI59			X		X					X			X			
2220	H08_dDI21			X		X					X			X			
2285	F08_dDI24			X		X					X			X			
2308	G08_dDI54			X		X					X			X			
2348	G09_dDI09			X		X					X			X			
2355	G08_dDI69			X		X					X			X			
2370	G08_dDI16			X		X					X			X			
2397	I08_dDI01			X		X					X			X			
2412	F10_dDI03			X		X					X			X			
2424	F10_dDI15			X		X					X			X			
2427	G10_dDI03			X		X					X			X			
2245	G08_dDI43			X		X					X		X				
2088	H07_dDI03			X		X				X				X			
2095	H07_dDI04			X		X				X				X			
2096	H07_dDI06			X		X				X				X			
2097	H07_dDI07			X		X				X				X			
2113	G08_dDI41			X		X				X				X			
2114	G08_dDI45			X		X				X				X			
2188	H08_dDI19			X		X				X				X			
2209	H08_dDI52			X		X				X				X			
2212	H08_dDI57			X		X				X				X			
2213	H08_dDI54			X		X				X				X			
2214	H08_dDI51			X		X				X				X			
2235	G08_dDI77			X		X				X				X			

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2274	G08_dDI03			X		X				X				X			
2275	G08_dDI07			X		X				X				X			
2320	G09_dDI02			X		X				X				X			
2322	G09_dDI06			X		X				X				X			
2323	G09_dDI08			X		X				X				X			
2326	G09_dDI24			X		X				X				X			
2337	H09_dDI12			X		X				X				X			
2361	G08_dDI64			X		X				X				X			
2362	G08_dDI51			X		X				X				X			
2364	G08_dDI42			X		X				X				X			
2373	G08_dDI21			X		X				X				X			
2377	G08_dDI63			X		X				X				X			
2405	G10_dDI01			X		X				X				X			
2417	F10_dDI12			X		X				X				X			
2115	H08_dDI01			X		X				X			X				
2120	G08_dDI46			X		X				X			X				
2239	H09_dDI04			X		X				X			X				
2255	F07_dDI02			X		X				X			X				
2292	F08_dDI17			X		X				X			X				
2324	G09_dDI12			X		X				X			X				
2330	H09_dDI07			X		X				X			X				
2385	J08_dDI06			X		X				X			X				
2123	H08_dDI10			X		X			X					X			
2403	I09_dDI01			X		X			X					X			

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2089	H07_dDI01		X			X			X							X	
2090	G06_dDI01		X			X			X							X	
2092	G06_dDI03		X			X			X							X	
2098	G07_dDI01		X			X			X							X	
2099	G07_dDI06		X			X			X							X	
2103	G08_dDI23		X			X			X							X	
2104	G08_dDI27		X			X			X							X	
2105	G08_dDI32		X			X			X							X	
2116	G08_dDI39		X			X			X							X	
2131	H08_dDI18		X			X					X		X				
2182	H08_dDI24		X			X					X		X				
2183	H08_dDI30		X			X					X		X				
2184	H08_dDI33		X			X					X		X				
Below are the remainder of the drain inlets which were surveyed and were not in fair or poor condition, were not more than partially full of sediment, and that were not surcharging, blocked, or damaged non-functional. They are ranked in terms of condition continuous from the above table.																	
2185	H08_dDI32		X			X				X			X				
2186	H08_dDI31		X			X				X			X				
2187	H08_dDI13		X			X				X			X				
2189	H08_dDI23		X			X				X			X				
2191	H08_dDI28		X			X				X			X				
2192	H08_dDI35		X			X				X			X				
2200	H08_dDI42		X			X				X			X				
2201	H08_dDI46		X			X				X			X				
2202	H08_dDI45		X			X				X			X				

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2203	H08_dDI44		X			X				X			X				
2204	H08_dDI43		X			X				X			X				
2205	H08_dDI47		X			X				X			X				
2207	H08_dDI49		X			X				X			X				
2208	H08_dDI50		X			X				X			X				
2216	H08_dDI53		X			X				X			X				
2217	H08_dDI55		X			X				X			X				
2218	H08_dDI58		X			X				X			X				
2219	H08_dDI56		X			X				X			X				
2221	H08_dDI15		X			X				X			X				
2222	H08_dDI16		X			X				X			X				
2223	H08_dDI17		X			X				X			X				
2224	H08_dDI22		X			X				X			X				
2225	H08_dDI26		X			X				X			X				
2226	H08_dDI29		X			X				X			X				
2227	H08_dDI20		X			X				X			X				
2228	H08_dDI27		X			X				X			X				
2234	G08_dDI76		X			X				X			X				
2236	H09_dDI01		X			X				X			X				
2238	H09_dDI03		X			X				X			X				
2240	G08_dDI68		X			X				X			X				
2242	G08_dDI55		X			X				X			X				
2243	G08_dDI50		X			X				X			X				
2244	G08_dDI53		X			X				X			X				

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2246	G08_dDI40		X			X				X			X				
2247	G08_dDI20		X			X				X			X				
2248	G08_dDI17		X			X				X			X				
2249	G08_dDI13		X			X				X			X				
2252	G08_dDI05		X			X				X			X				
2253	G08_dDI02		X			X				X			X				
2256	F07_dDI01		X			X				X			X				
2257	G07_dDI03		X			X				X			X				
2276	G08_dDI08		X			X				X			X				
2277	G08_dDI04		X			X				X			X				
2278	G08_dDI01		X			X				X			X				
2279	G08_dDI09		X			X				X			X				
2280	G08_dDI11		X			X				X			X				
2281	G08_dDI12		X			X				X			X				
2282	G08_dDI14		X			X				X			X				
2283	F08_dDI30		X			X				X			X				
2284	F08_dDI28		X			X				X			X				
2286	F08_dDI20		X			X				X			X				
2290	F08_dDI01		X			X				X			X				
2295	F08_dDI27		X			X				X			X				
2297	F08_dDI22		X			X				X			X				
2298	F08_dDI19		X			X				X			X				
2299	F08_dDI14		X			X				X			X				
2301	F08_dDI29		X			X				X			X				

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2303	F08_dDI32		X			X				X			X				
2304	F08_dDI33		X			X				X			X				
2306	F08_dDI35		X			X				X			X				
2307	G08_dDI49		X			X				X			X				
2309	F08_dDI36		X			X				X			X				
2310	G08_dDI56		X			X				X			X				
2311	G08_dDI62		X			X				X			X				
2312	G08_dDI65		X			X				X			X				
2315	G08_dDI66		X			X				X			X				
2316	G08_dDI61		X			X				X			X				
2317	G08_dDI57		X			X				X			X				
2318	G08_dDI71		X			X				X			X				
2319	G09_dDI01		X			X				X			X				
2321	G09_dDI04		X			X				X			X				
2325	G09_dDI16		X			X				X			X				
2336	H09_dDI09		X			X				X			X				
2342	G09_dDI17		X			X				X			X				
2345	G09_dDI10		X			X				X			X				
2346	G09_dDI14		X			X				X			X				
2349	G09_dDI07		X			X				X			X				
2193	H08_dDI34		X			X			X					X			
2194	H08_dDI36		X			X			X					X			
2195	H08_dDI37		X			X			X					X			
2196	H08_dDI38		X			X			X					X			



Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2197	H08_dDI39		X			X			X					X			
2198	H08_dDI41		X			X			X					X			
2199	H08_dDI40		X			X			X					X			
2350	G09_dDI05		X			X			X				X				
2353	G09_dDI13		X			X			X				X				
2354	G08_dDI67		X			X			X				X				
2356	G08_dDI70		X			X			X				X				
2357	G08_dDI73		X			X			X				X				
2358	G08_dDI74		X			X			X				X				
2359	G09_dDI03		X			X			X				X				
2363	G08_dDI47		X			X			X				X				
2366	G08_dDI29		X			X			X				X				
2367	G08_dDI25		X			X			X				X				
2368	G08_dDI22		X			X			X				X				
2369	G08_dDI18		X			X			X				X				
2374	G08_dDI28		X			X			X				X				
2375	G08_dDI48		X			X			X				X				
2376	G08_dDI52		X			X			X				X				
2389	I08_dDI12		X			X			X				X				
2390	I08_dDI11		X			X			X				X				
2391	I08_dDI09		X			X			X				X				
2392	I08_dDI08		X			X			X				X				
2393	I08_dDI10		X			X			X				X				
2394	I08_dDI03		X			X			X				X				

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2399	I08_dDI07		X			X			X				X				
2400	I08_dDI06		X			X			X				X				
2402	I08_dDI05		X			X			X				X				
2407	G10_dDI02		X			X			X				X				
2408	F10_dDI09		X			X			X				X				
2102	G07_dDI05		X			X			X				X				
2101	G08_dDI24		X			X			X				X				
2117	G08_dDI26		X			X					X		X				
2119	G08_dDI44		X			X			X							X	
2122	H08_dDI02		X			X			X							X	
2118	H08_dDI03		X			X			X				X				
2121	H08_dDI04		X			X			X							X	
2126	H08_dDI05		X			X			X				X				
2124	H08_dDI07		X			X			X				X				
2125	H08_dDI08		X			X			X				X				
2128	H08_dDI09		X			X			X				X				
2129	H08_dDI11		X			X			X					X			
2119	H08_dDI12		X			X			X					X			
2130	H08_dDI14		X			X			X					X			
2410	F10_dDI05		X			X			X				X				

Drain Inlet Historic ID	Drain Inlet New ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition				
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Surcharging	Damaged Non-Functional	Blocked
2421	F10_dDI11		X			X			X				X				
2464	E06_dDI03		X			X			X				X				
2490	C06_dDI02		X			X			X				X				
2496	C06_dDI01		X			X			X				X				
2586	E06_dDI02		X			X			X				X				
2600	J08_dDI01		X			X			X				X				
2604	J08_dDI05		X			X			X				X				
2744	J08_dDI03		X			X			X				X				
3104	E08_dDI01		X			X			X				X				
3113	D08_dDI01		X			X			X				X				
3115	E08_dDI05		X			X			X				X				
3116	E08_dDI02		X			X			X				X				
3117	E08_dDI04		X			X			X				X				
3118	E08_dDI06		X			X			X				X				
dCB416	J06_dDI01		X			X			X				X				
dCB417	J07_dDI01		X			X			X				X				
dCB418	J07_dDI02		X			X			X				X				
dCB420	J07_dDI04		X			X			X				X				
dCB421	J07_dDI05		X			X			X				X				
3114	E08_dDI03	X				X				X			X				

**Table C-5: Other Storm Sewer Appurtenances**

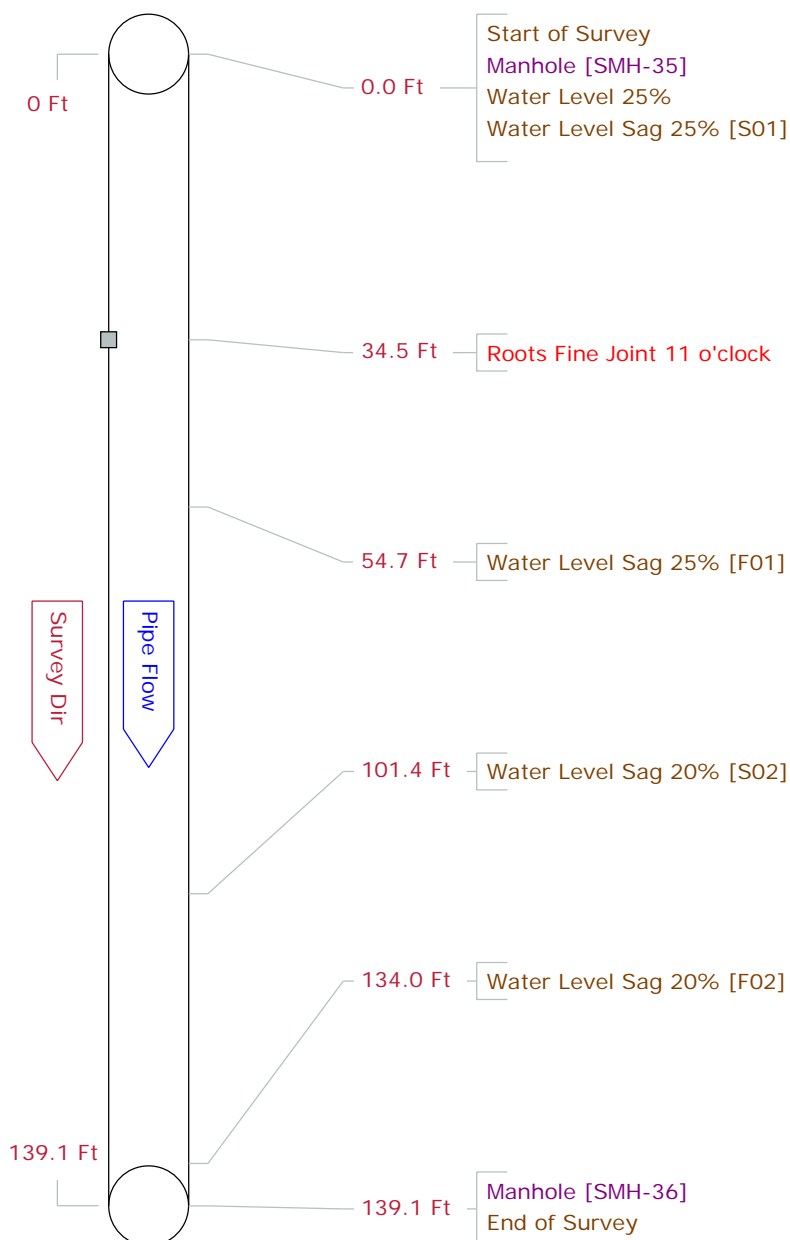
Historic Appurtenance ID	New Appurtenance ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
Below are storm sewer appurtenances ranking fair, poor, damaged non-functional, blocked, substantially full of or completely full of sediment. They are ranked in terms of condition, beginning with the appurtenance in the worst condition.																
2775 - Outfall	E04_dOF01				X		X				X					X
dCI1 - Culvert Inlet	K10_dCI01			X		X					X				X	
2722 - Dry Well	J07_dDW01			X		X					X				X	
1071 - Drain Outlet	L07_dDO01			X		X				X					X	
3136 - Inlet	C08_dSI01			X		X				X					X	
3064 - Dry Well	C06_dDW03		X			X					X			X		
Below are the remainder of features which were surveyed and were not in fair or poor condition, were not more than partially full of sediment, and that were not surcharging, blocked, or damaged non-functional. They are ranked in terms of condition continuous from the above table.																
303 – Vault	I08_dVT01		X				X			X			X			
3124 – Dry Well	H10_dDW01		X			X				X				X		
dOF198 – Outfall	K08_dOF01		X			X				X				X		
dCO1 - Culvert Outlet	K10_dCO01		X			X				X			X			
1070 - Drain Outlet	L07_dDO02		X			X				X			X			
3100 – Trench	D03_dTD01		X			X				X			X			
3097 - Trench	E02_dTD02		X			X				X			X			
3205	D04_dOF01		X			X			X				X			
3204	D04_dOF02		X			X			X				X			
3203	D04_dSI01		X			X			X				X			
2773 - Outfall	E04_dOF02		X			X				X			X			
3097 - Trench	B02_dTD01		X			X				X			X			

Historic Appurtenance ID	New Appurtenance ID	Overall Condition				Structural Condition			Sediment				Hydraulic Condition			
		Excellent	Good	Fair	Poor	Good	Damaged Functional	Damaged Non-Functional	None	Partial	Substantial	Full	Good	Damaged Functional	Damaged Non-Functional	Blocked
3054 – Dry Well	D06_dDW01		X			X			X				X			
3055 – Dry Well	D06_dDW03		X			X			X				X			
3056 – Dry Well	E06_dDW01		X			X			X				X			
3062 - Dry Well	D07_dDW02		X			X			X				X			
3063 - Dry Well	D07_dDW01		X			X			X				X			
3065 - Dry Well	D06_dDW04		X			X			X				X			
3066 - Dry Well	D06_dDW02		X			X			X				X			
dOF382 - Outfall	K09_dOF03		X			X			X				X			
dOF385 - Outfall	E06_dOF01		X			X			X				X			
3053 - Dry Well	C06_dDW02	X				X				X			X			
dOF197 - Outfall	K08_dOF02	X				X				X			X			
3052 - Dry Well	C06_dDW01	X				X			X				X			
dOF383 - Outfall	K09_dOF02	X				X			X				X			
dOF386 - Outfall	C06_dOF01	X				X			X				X			
2732 - Trench	B02_dT02	X				X			X				X			
dOF387 - Outfall	C06_dOF02	X				X			X				X			

## APPENDIX D: PIPE INSPECTION LOGS

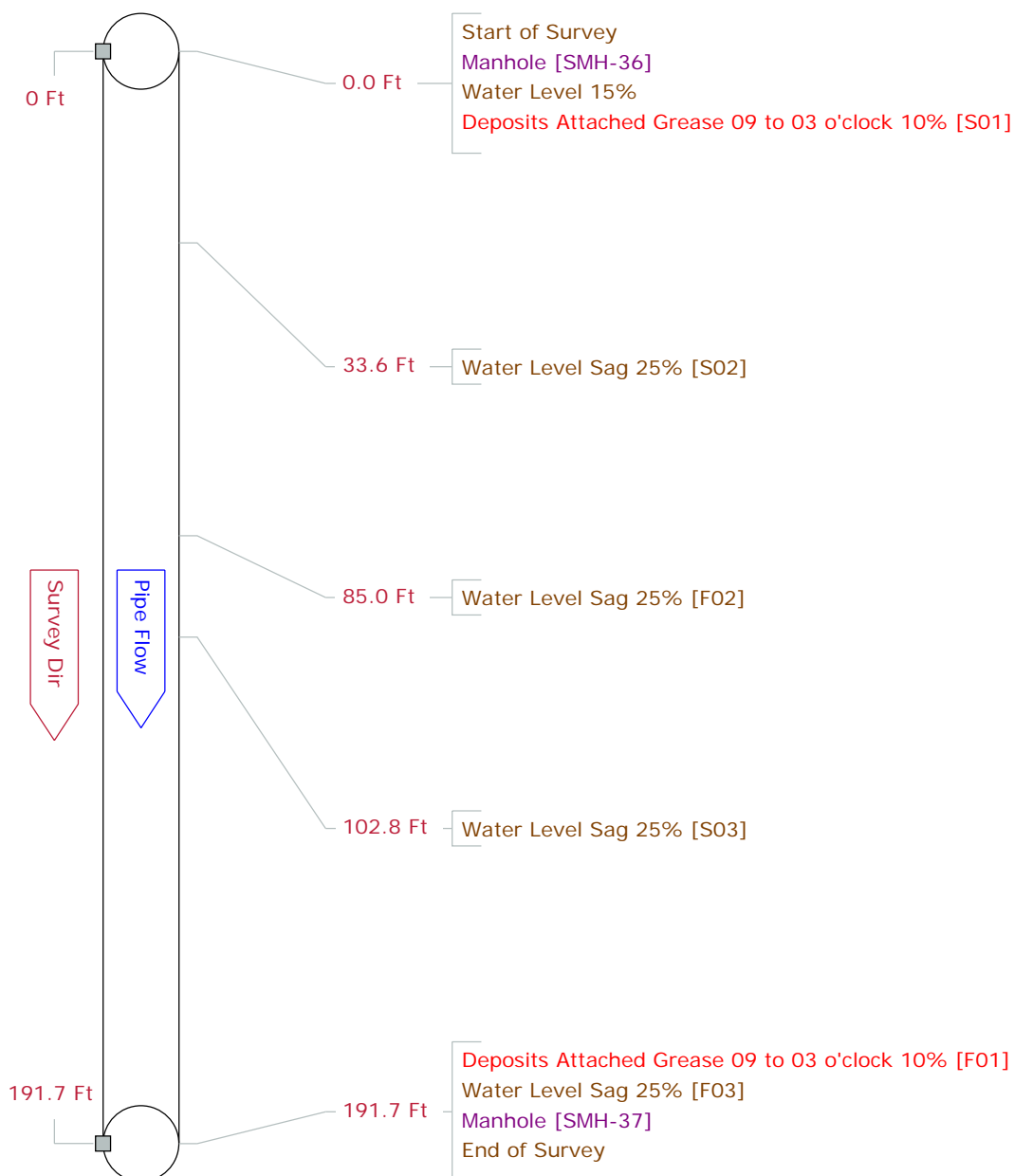
# Pipe Graphic Report of PLR SMH-35 X for WOODARD & CURRAN

<b>Setup</b> 1	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/18	<b>Time</b> 10:47	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-35	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-36	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 139.1 <b>Ft</b>	<b>Length Surveyed</b> 139.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Damp
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR SMH-36 X for WOODARD & CURRAN

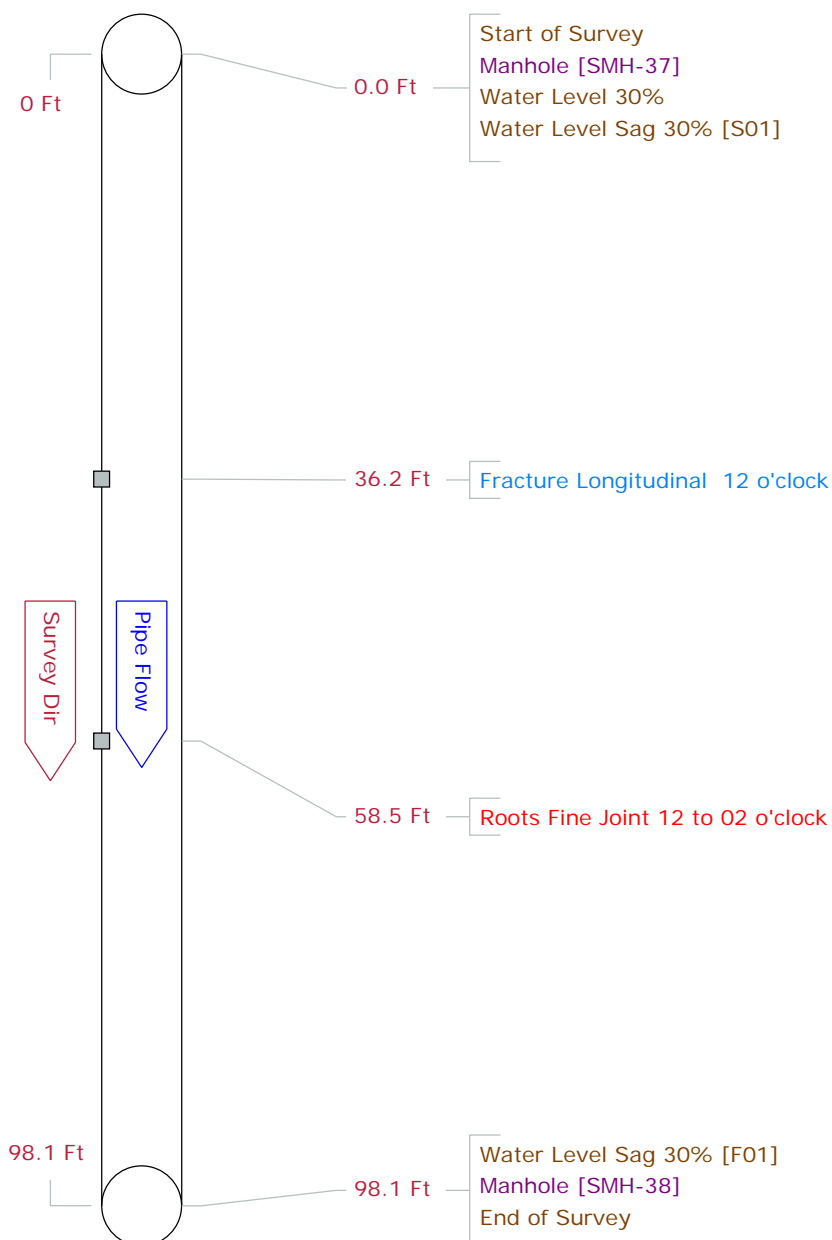
<b>Setup</b> 2	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/18	<b>Time</b> 10:59	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-36	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-37	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 191.7 <b>Ft</b>	<b>Length Surveyed</b> 191.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Damp
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>





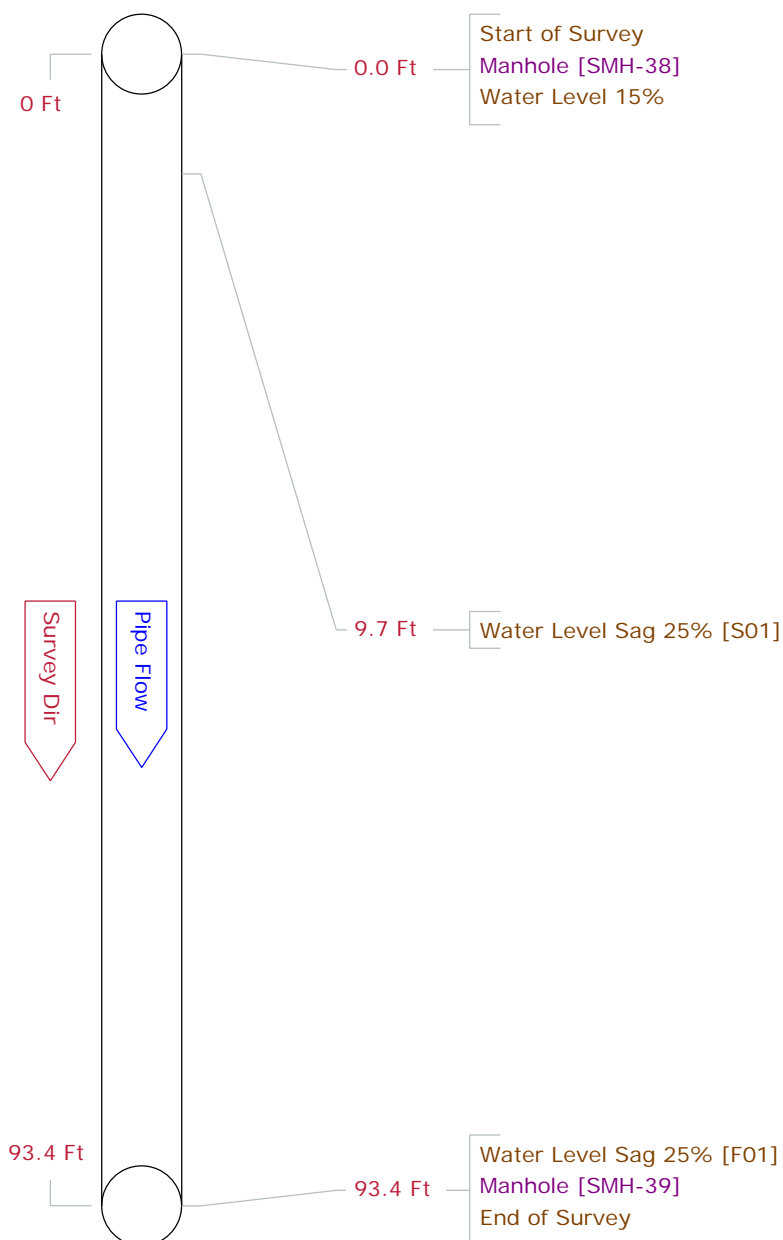
# Pipe Graphic Report of PLR SMH-37 X for WOODARD & CURRAN

<b>Setup</b> 3	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/18	<b>Time</b> 11:07	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-37	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-38	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 98.1 <b>Ft</b>	<b>Length Surveyed</b> 98.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Damp
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



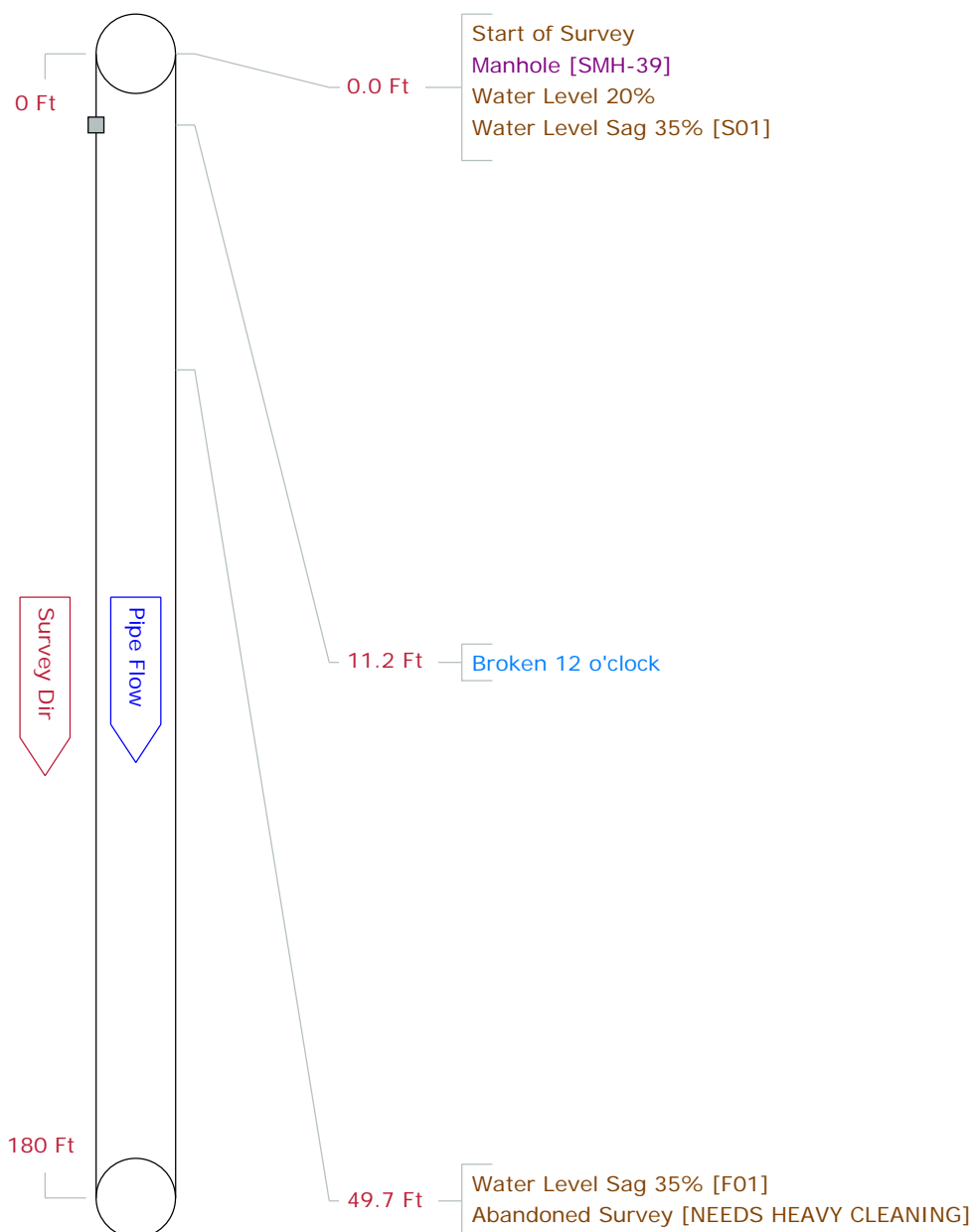
# Pipe Graphic Report of PLR SMH-38 X for WOODARD & CURRAN

<b>Setup</b> 4	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/18	<b>Time</b> 11:13	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-38	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-39	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 93.4 <b>Ft</b>	<b>Length Surveyed</b> 93.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Damp
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



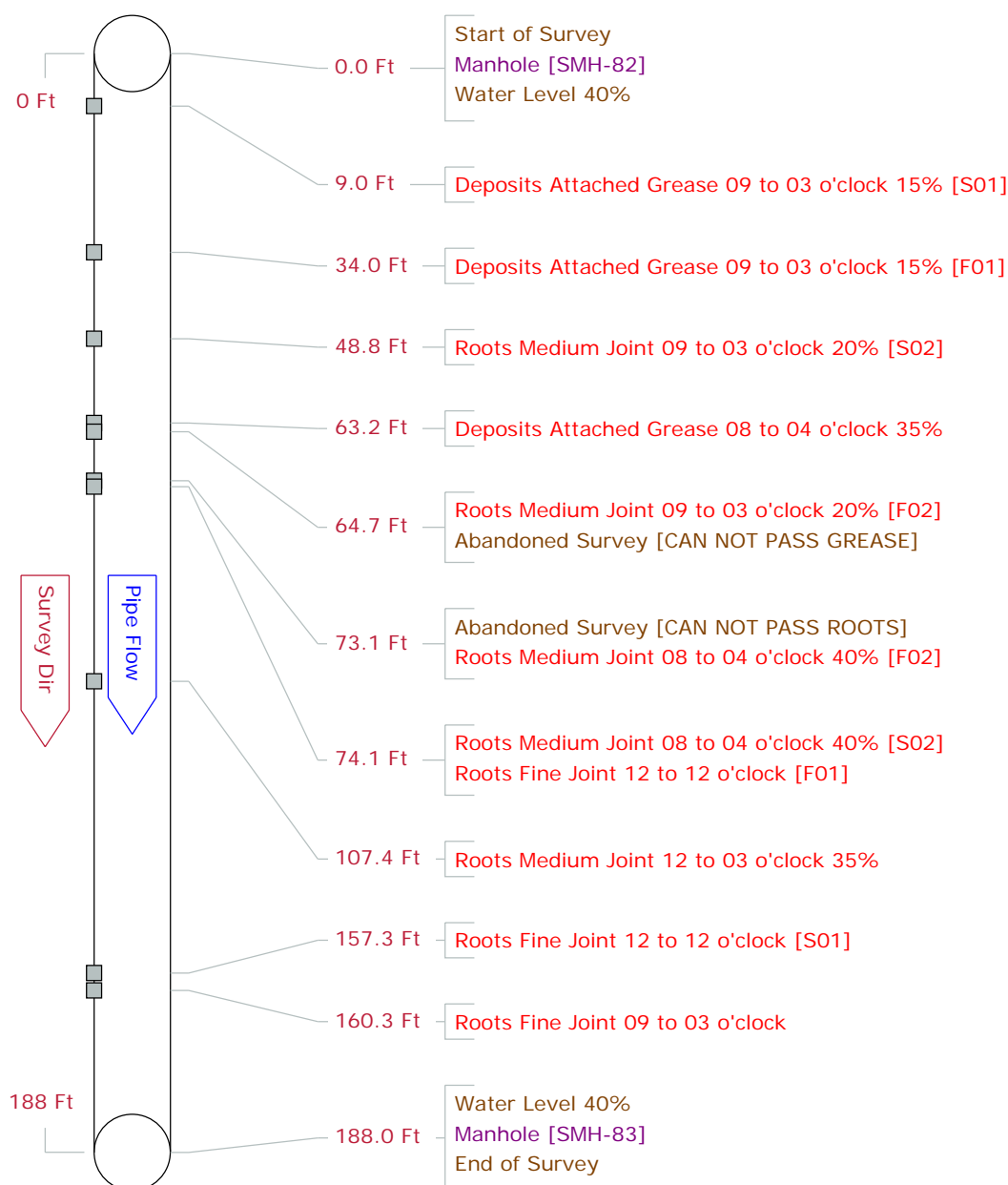
# Pipe Graphic Report of PLR SMH-39 X for WOODARD & CURRAN

<b>Setup</b> 5	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/18	<b>Time</b> 2:27	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-39	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-82	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 180.0 <b>Ft</b>	<b>Length Surveyed</b> 49.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Damp
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



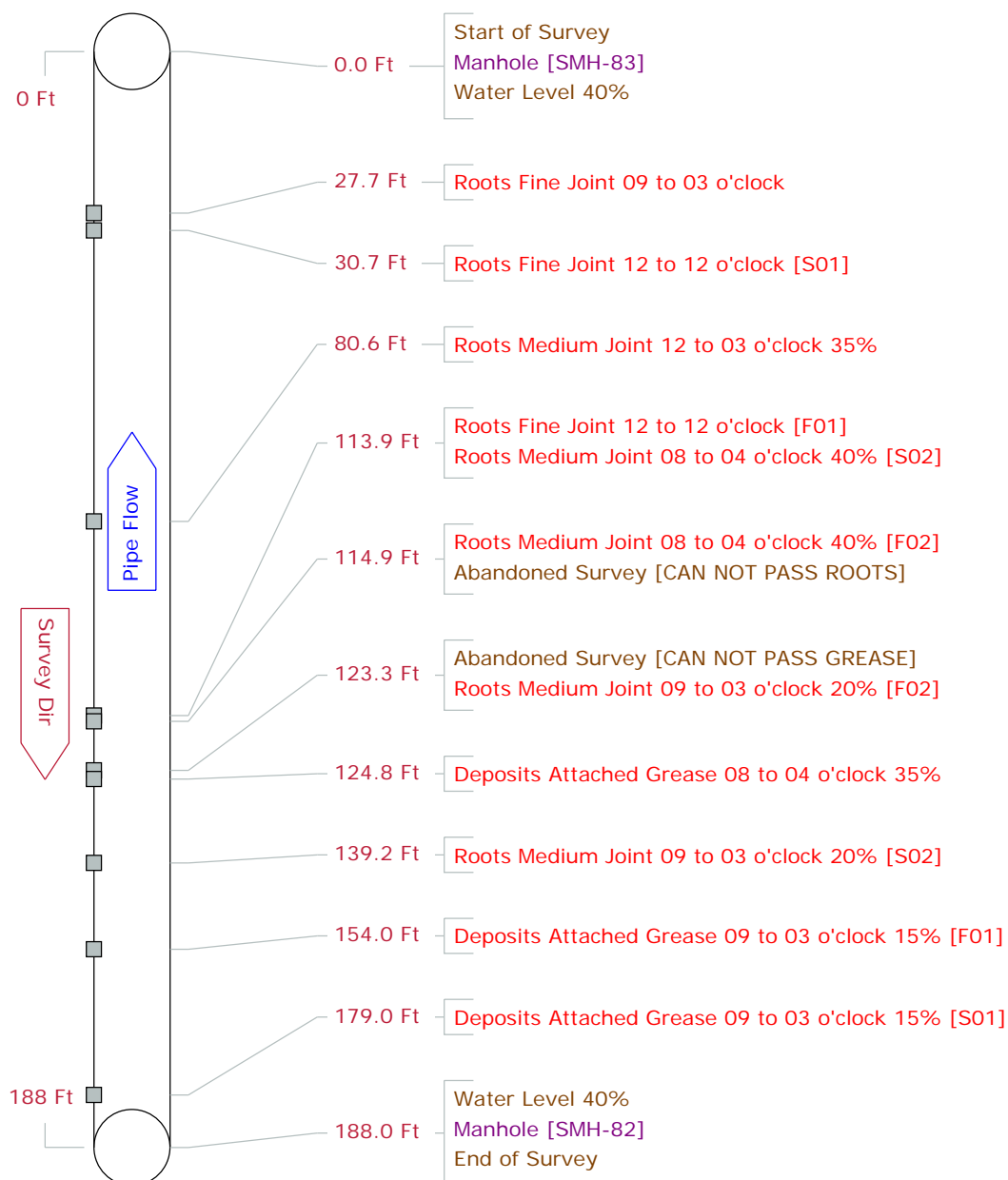
# Pipe Graphic Report of PLR SMH-82 X for WOODARD & CURRAN

<b>Setup</b> 6/7	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 9:25	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-82	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-83	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b>	<b>Ft</b>	<b>Total length</b> 188.0 <b>Ft</b> <b>Length Surveyed</b> 64.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Damp
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>
		<b>Constructional</b>	



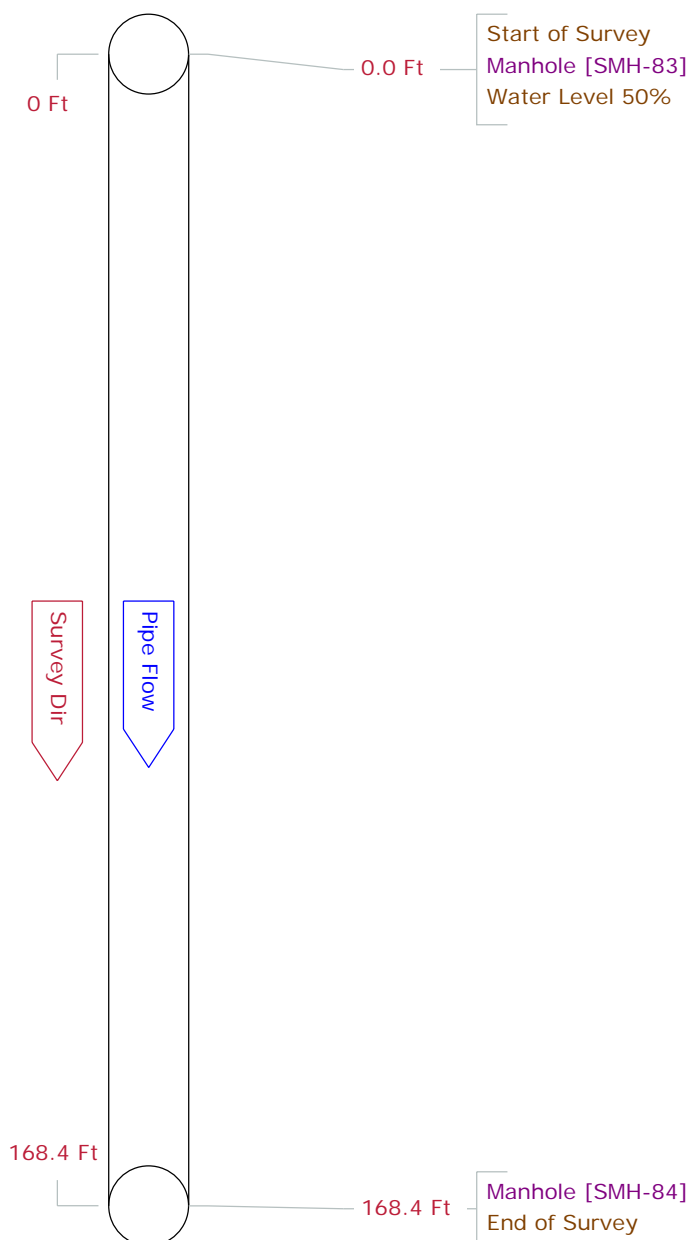
# Pipe Graphic Report of PLR SMH-82 X for WOODARD & CURRAN

<b>Setup</b> 7/6	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 9:45	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-83	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-82	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 188.0 <b>Ft</b>	<b>Length Surveyed</b> 114.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Damp
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:6		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



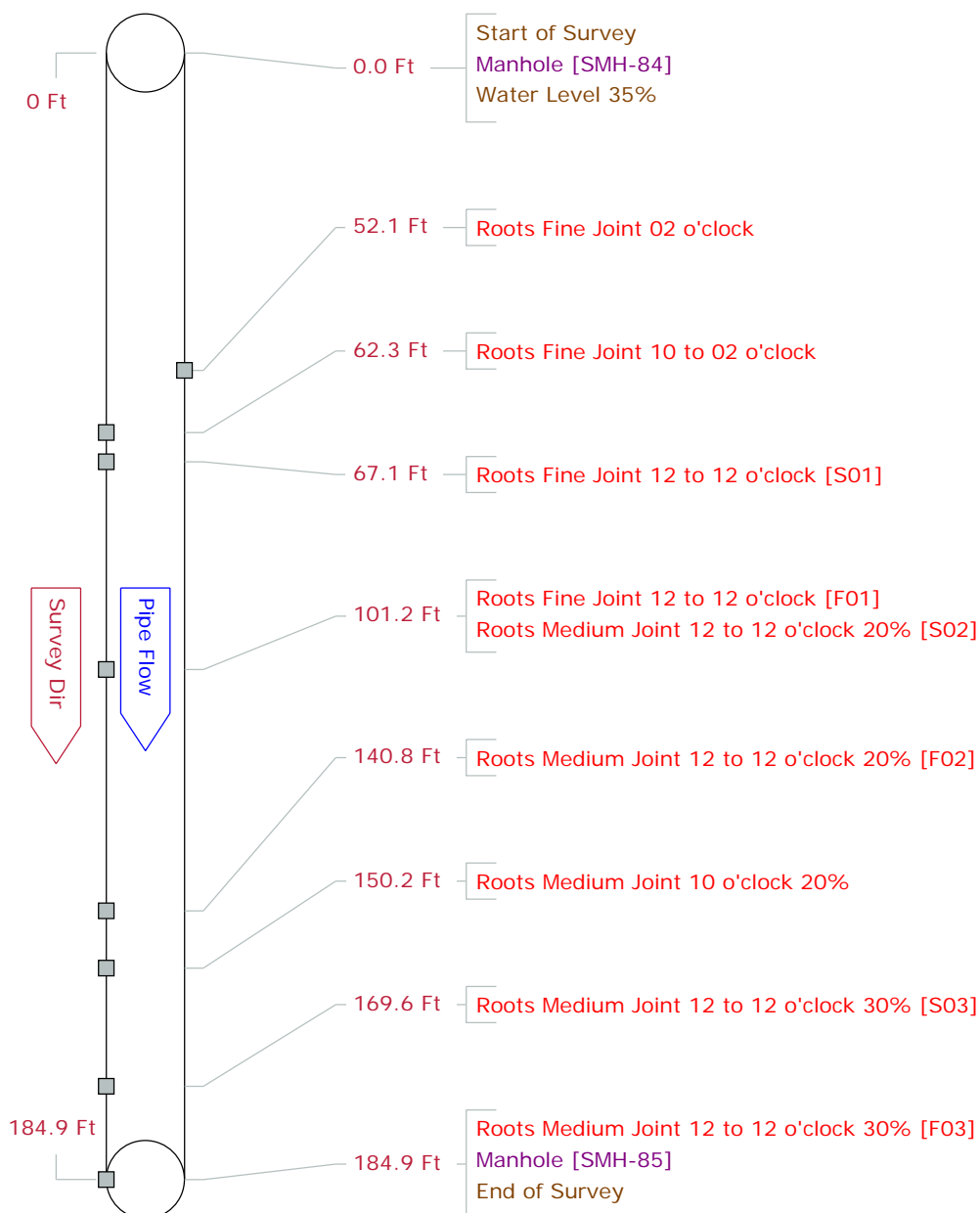
# Pipe Graphic Report of PLR SMH-83 X for WOODARD & CURRAN

<b>Setup</b> 8	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 10:05	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-83	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-84	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 168.4 <b>Ft</b>	<b>Length Surveyed</b> 168.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Damp
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



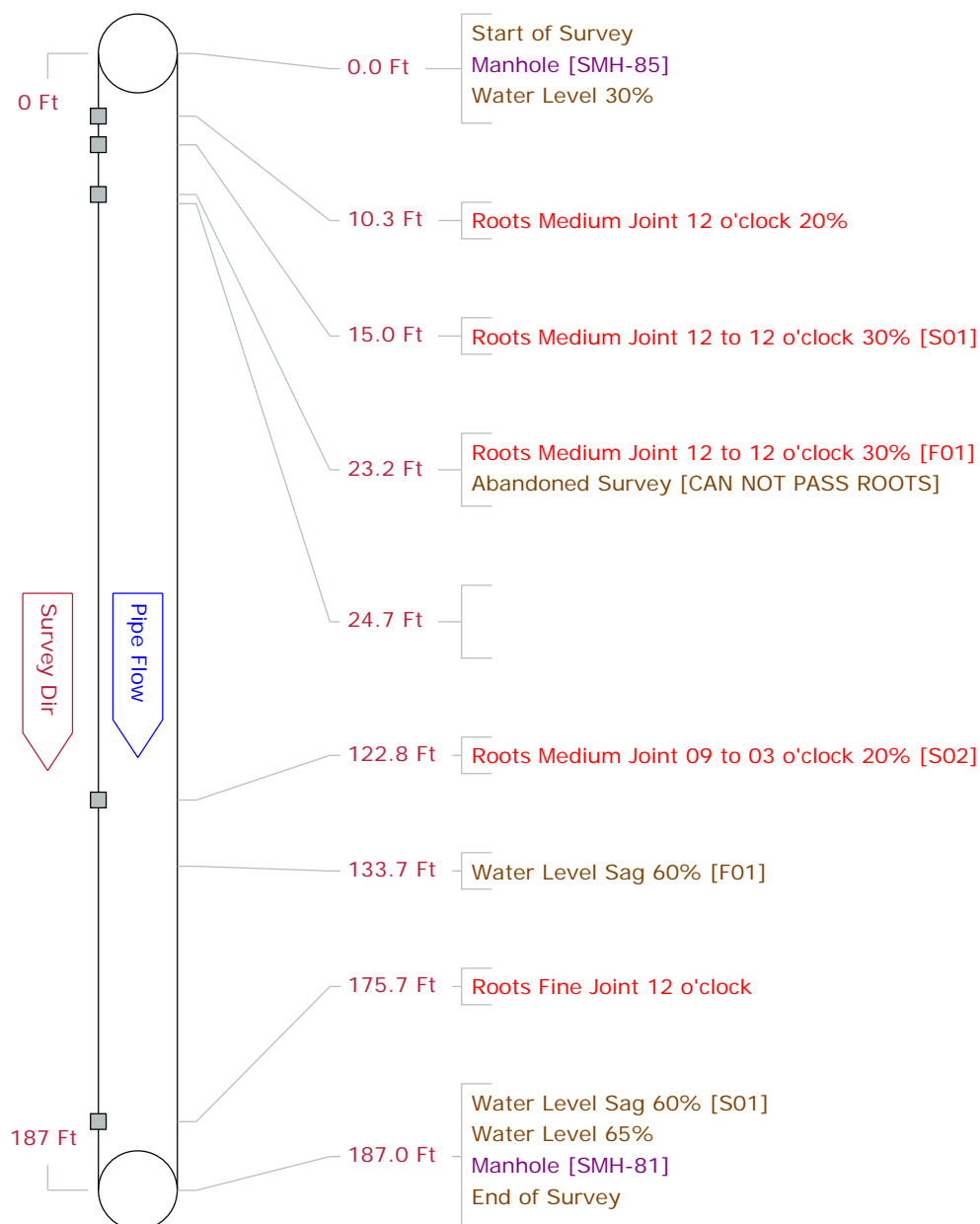
# Pipe Graphic Report of PLR SMH-84 X for WOODARD & CURRAN

<b>Setup</b> 9	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 10:19	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-84	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-85	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 184.9 <b>Ft</b>	<b>Length Surveyed</b> 184.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Damp
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>
		<b>Constructional</b>	



# Pipe Graphic Report of PLR SMH-85 X for WOODARD & CURRAN

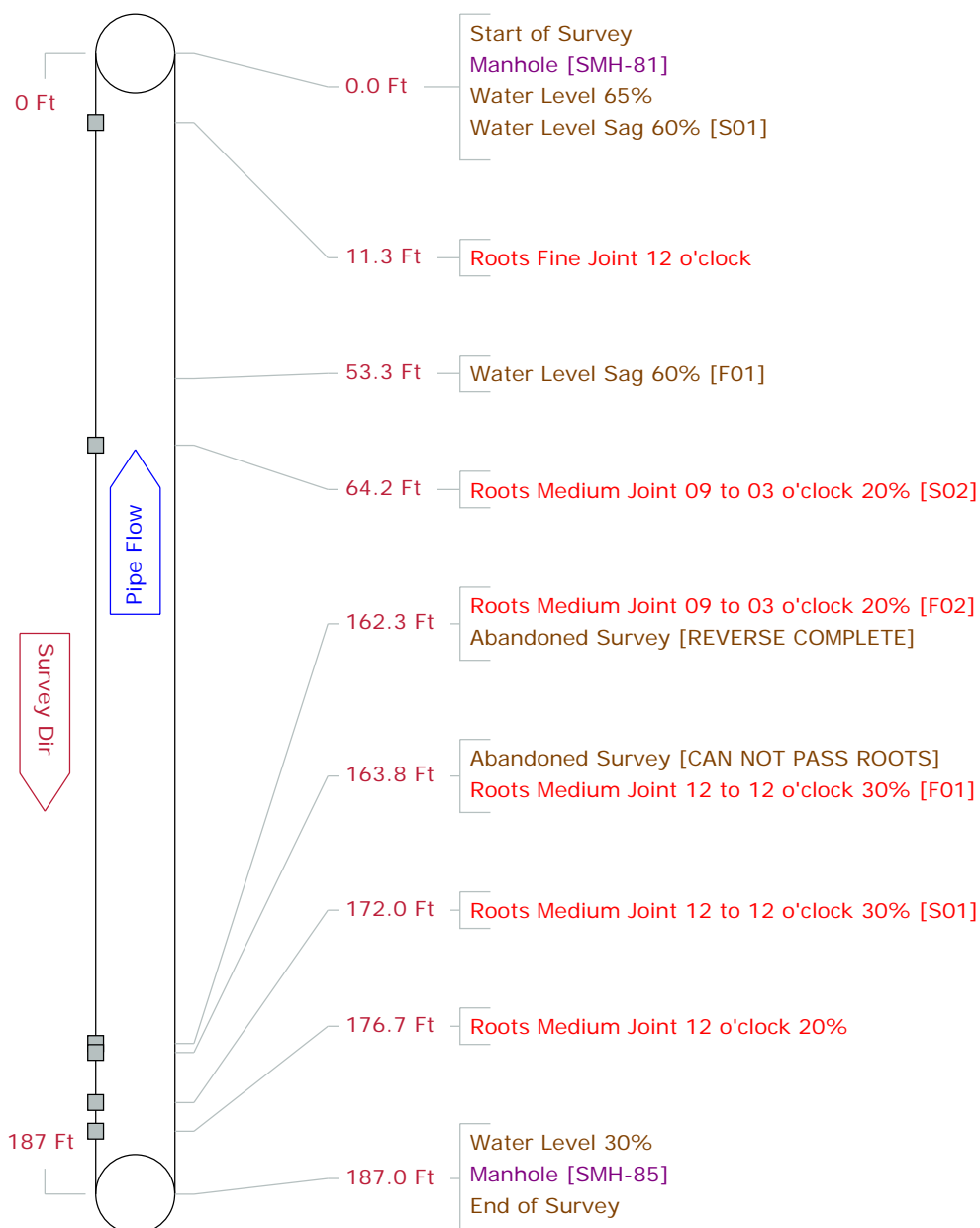
<b>Setup</b>	10/11	<b>Surveyor</b>	WP	<b>Certificate #</b>	T-001-002	<b>System Owner</b>	ALBANY UNIVERSITY
<b>Drainage</b>	CAMPUS GRC	<b>Survey Customer</b>	WOODARD & CURRAN				
<b>P/O #</b>		<b>Date</b>	2007/07/19	<b>Time</b>	10:31	<b>Street</b>	SUNY OF ALBANY
<b>Locality</b>	CAMPUS GROUNDS	<b>Further location details</b>					
<b>Start</b>	SMH-85	<b>Rim to invert</b>		<b>Grade to invert</b>		<b>Rim to grade</b>	<b>Ft</b>
<b>Finish</b>	SMH-81	<b>Rim to invert</b>		<b>Grade to invert</b>		<b>Rim to grade</b>	<b>Ft</b>
<b>Use</b>	Sanitary	<b>Direction</b>	Downstream	<b>Flow control</b>	Not Controlled	<b>Tape/Media #</b>	WP-01
<b>Shape</b>	Circular	<b>Height</b>	12	<b>Width</b>	ins	<b>Preclean</b>	J
<b>Material</b>	Vitrified Clay Pipe	<b>Joint length</b>		<b>Ft</b>	<b>Total length</b>	187.0	<b>Ft</b>
<b>Lining</b>		<b>Year laid</b>		<b>Year rehabilitated</b>		<b>Weather</b>	Light Rain
<b>Purpose</b>	Infiltration/Inflow Investigation	<b>Cat</b>					
<b>Additional info</b>							
<b>Location</b>	Light Highway						





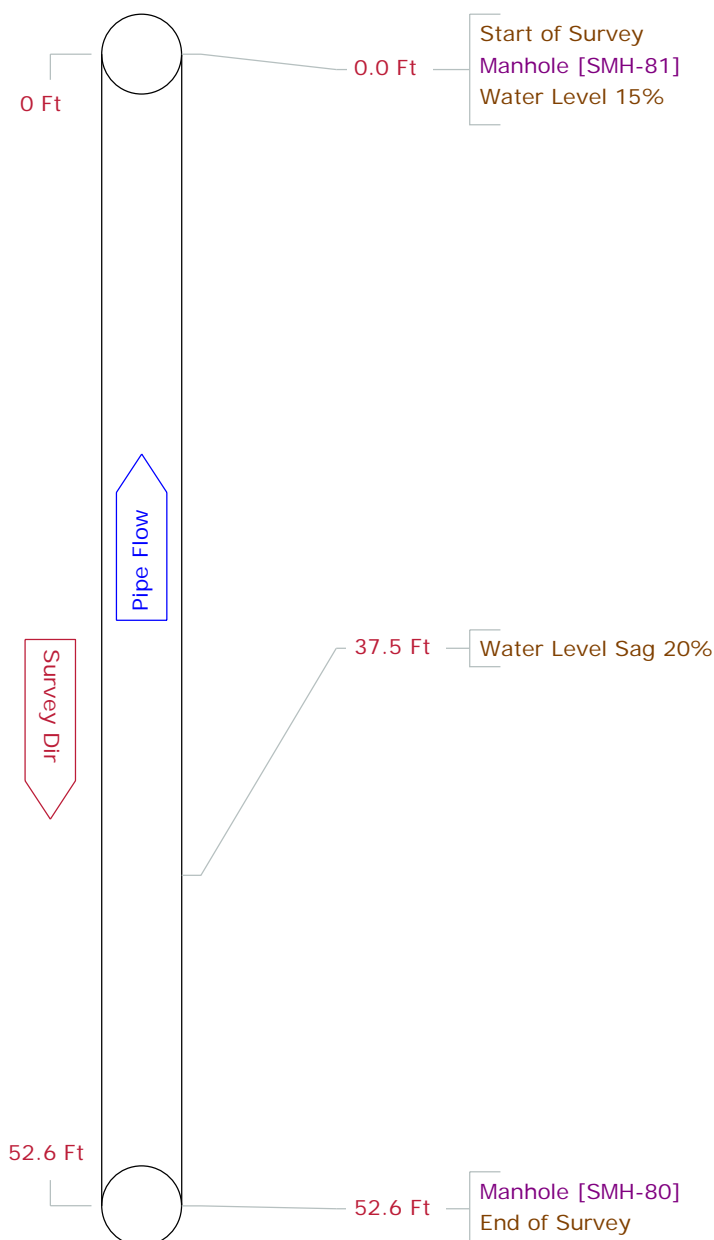
# Pipe Graphic Report of PLR SMH-85 X for WOODARD & CURRAN

<b>Setup</b> 11/10	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 10:54	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-81	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-85	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 187.0 <b>Ft</b>	<b>Length Surveyed</b> 162.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Light Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:10		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



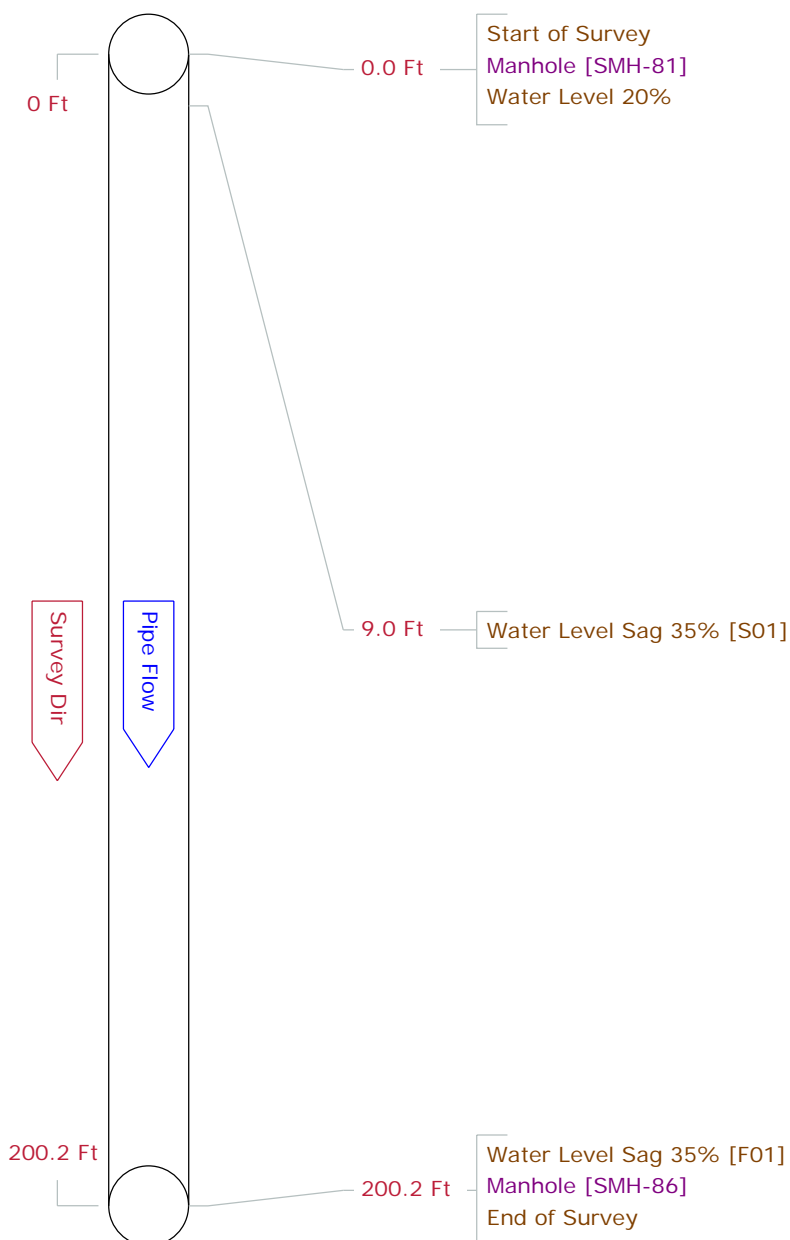
# Pipe Graphic Report of PLR SMH-80 X for WOODARD & CURRAN

<b>Setup</b> 12	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 11:17	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-81	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-80	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 52.6	<b>Ft</b> <b>Length Surveyed</b> 52.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Light Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



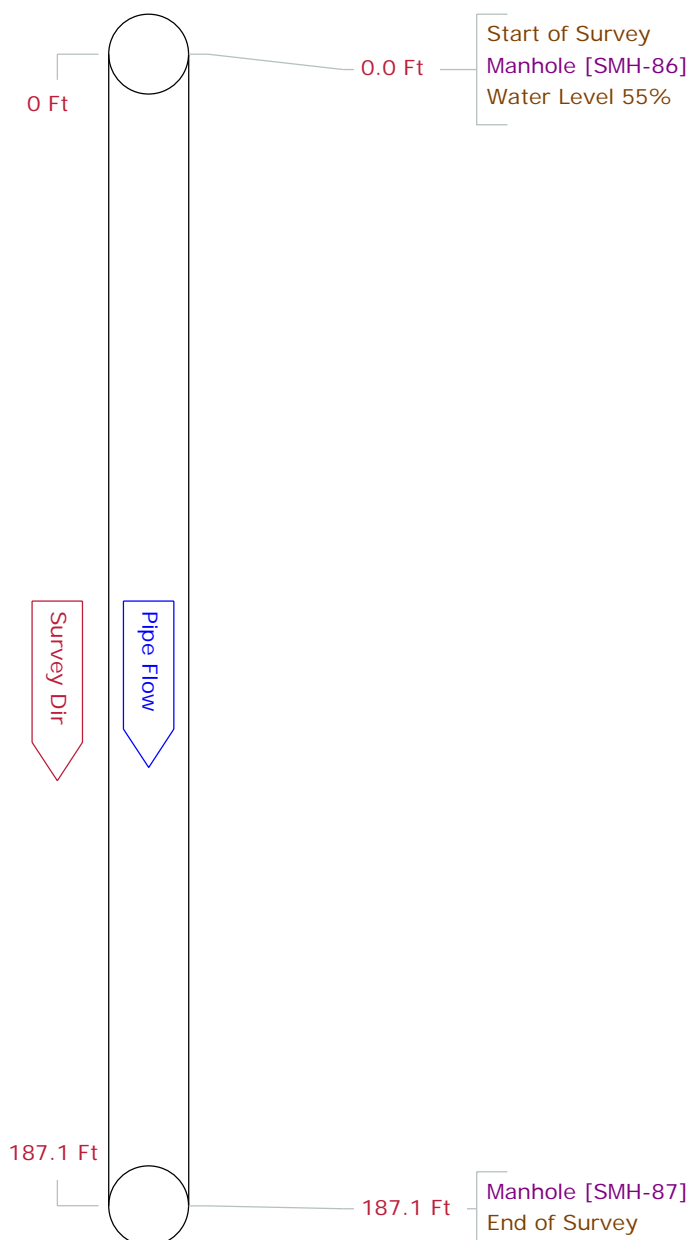
# Pipe Graphic Report of PLR SMH-81 X for WOODARD & CURRAN

<b>Setup</b> 13	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 11:21	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-81	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-86	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 200.2 <b>Ft</b>	<b>Length Surveyed</b> 200.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Light Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



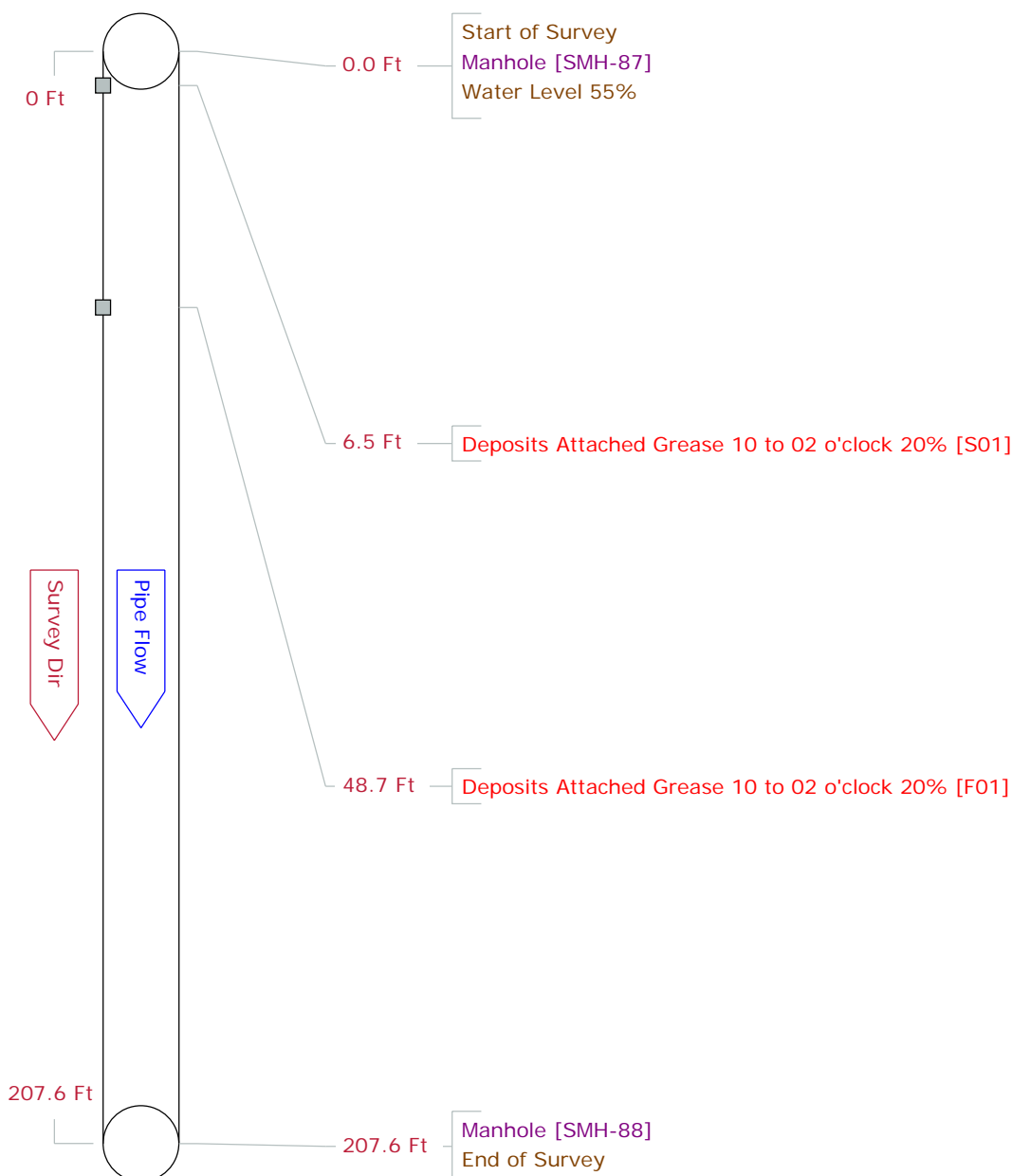
# Pipe Graphic Report of PLR SMH-86 X for WOODARD & CURRAN

<b>Setup</b> 14	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 11:41	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-86	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-87	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 187.1 <b>Ft</b>	<b>Length Surveyed</b> 187.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Light Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



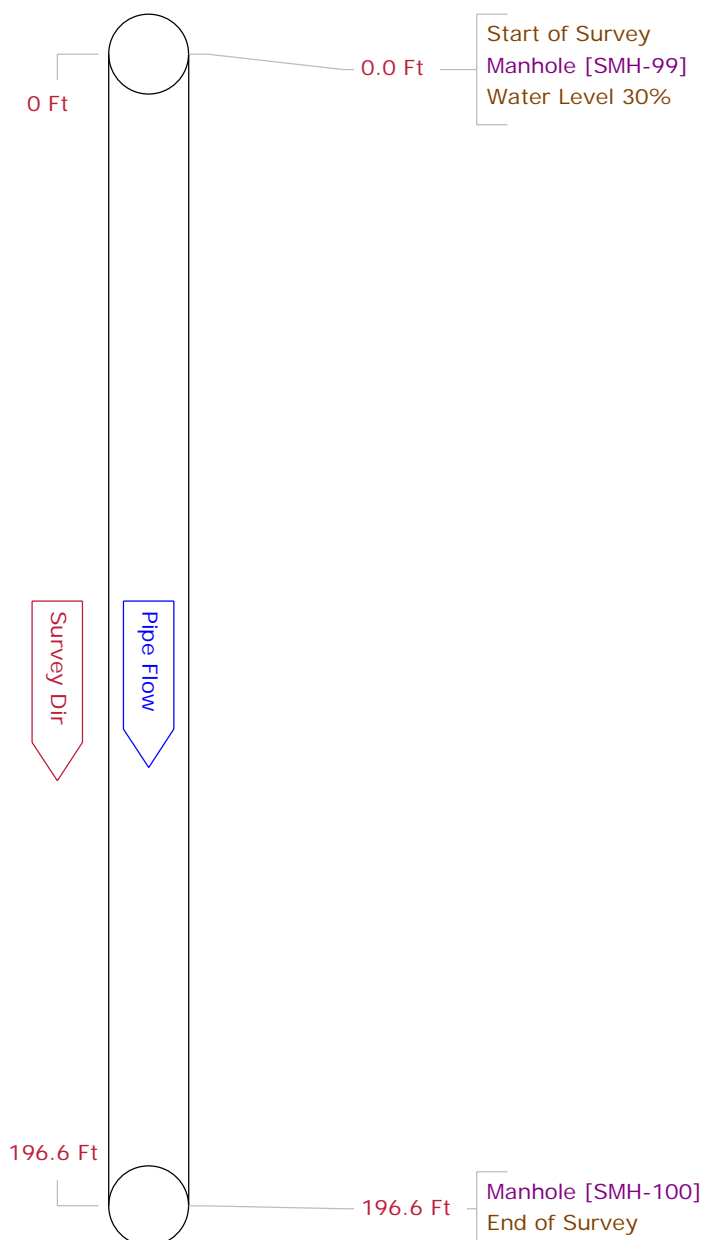
# Pipe Graphic Report of PLR SMH-87 X for WOODARD & CURRAN

<b>Setup</b> 15	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 11:52	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-87	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-88	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 207.6 <b>Ft</b>	<b>Length Surveyed</b> 207.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



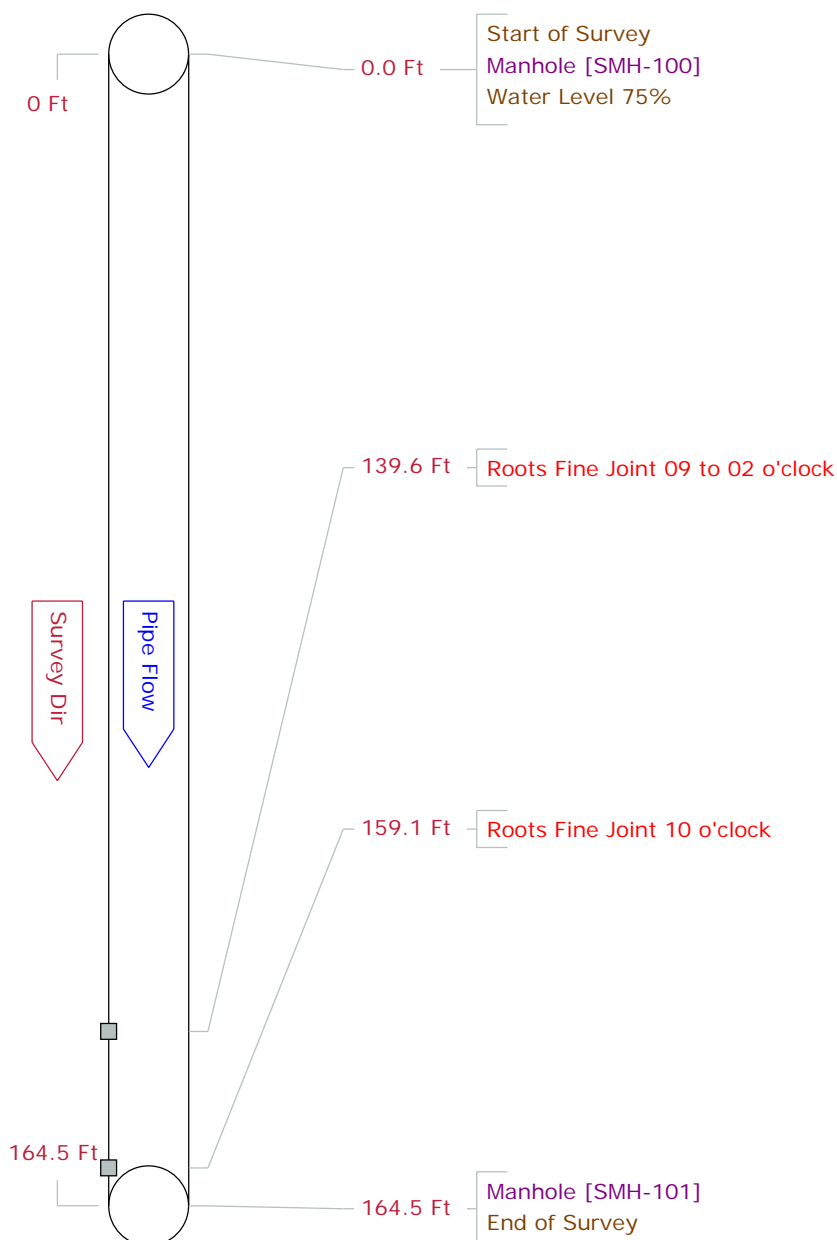
# Pipe Graphic Report of PLR SMH-99 X for WOODARD & CURRAN

<b>Setup</b> 16	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 12:31	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-99	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-100	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 196.6 <b>Ft</b>	<b>Length Surveyed</b> 196.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



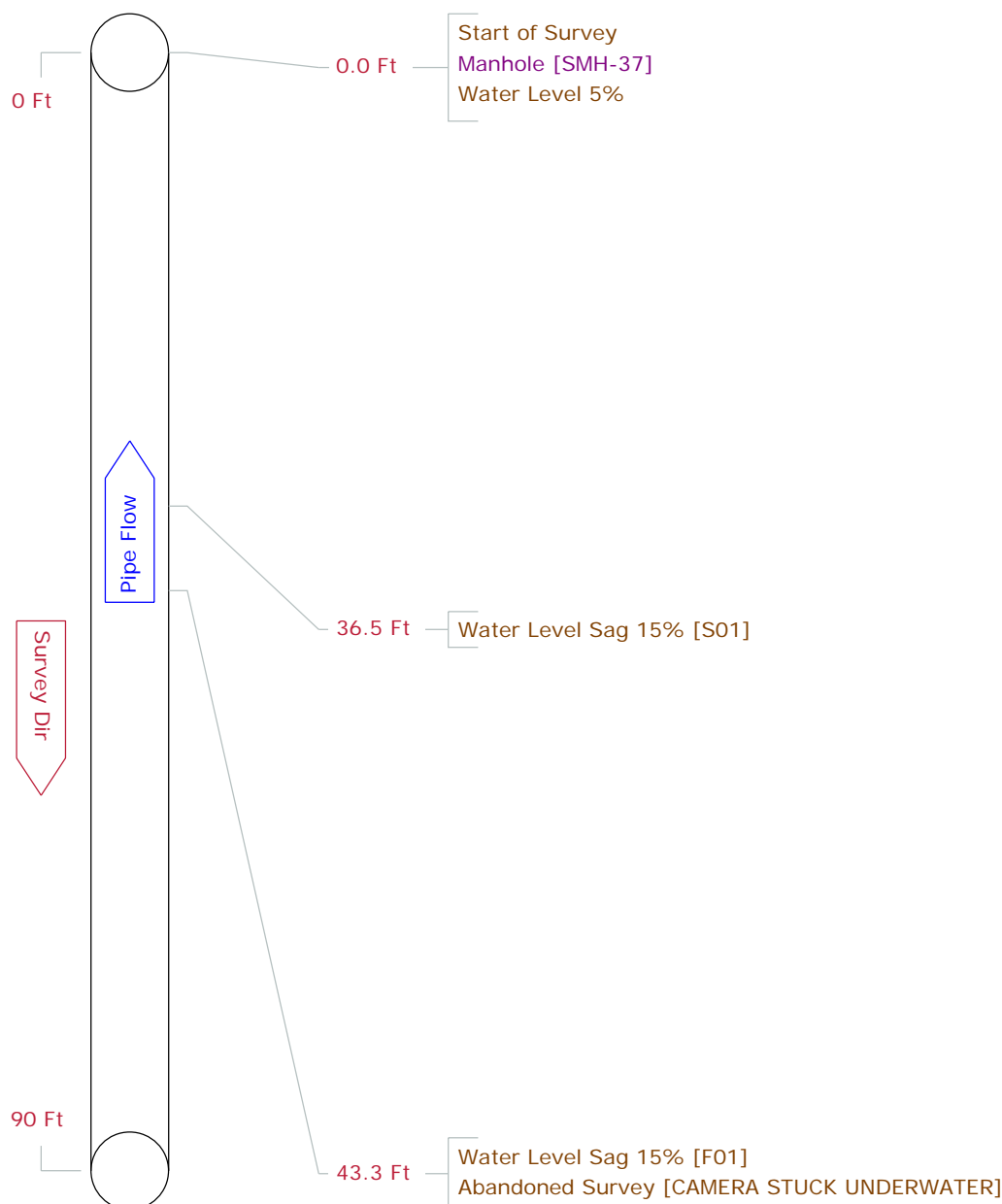
# Pipe Graphic Report of PLR SMH-100 X for WOODARD & CURRAN

<b>Setup</b> 17	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/19	<b>Time</b> 12:31	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-100	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-101	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 164.5 <b>Ft</b>	<b>Length Surveyed</b> 164.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR STUB X for WOODARD & CURRAN

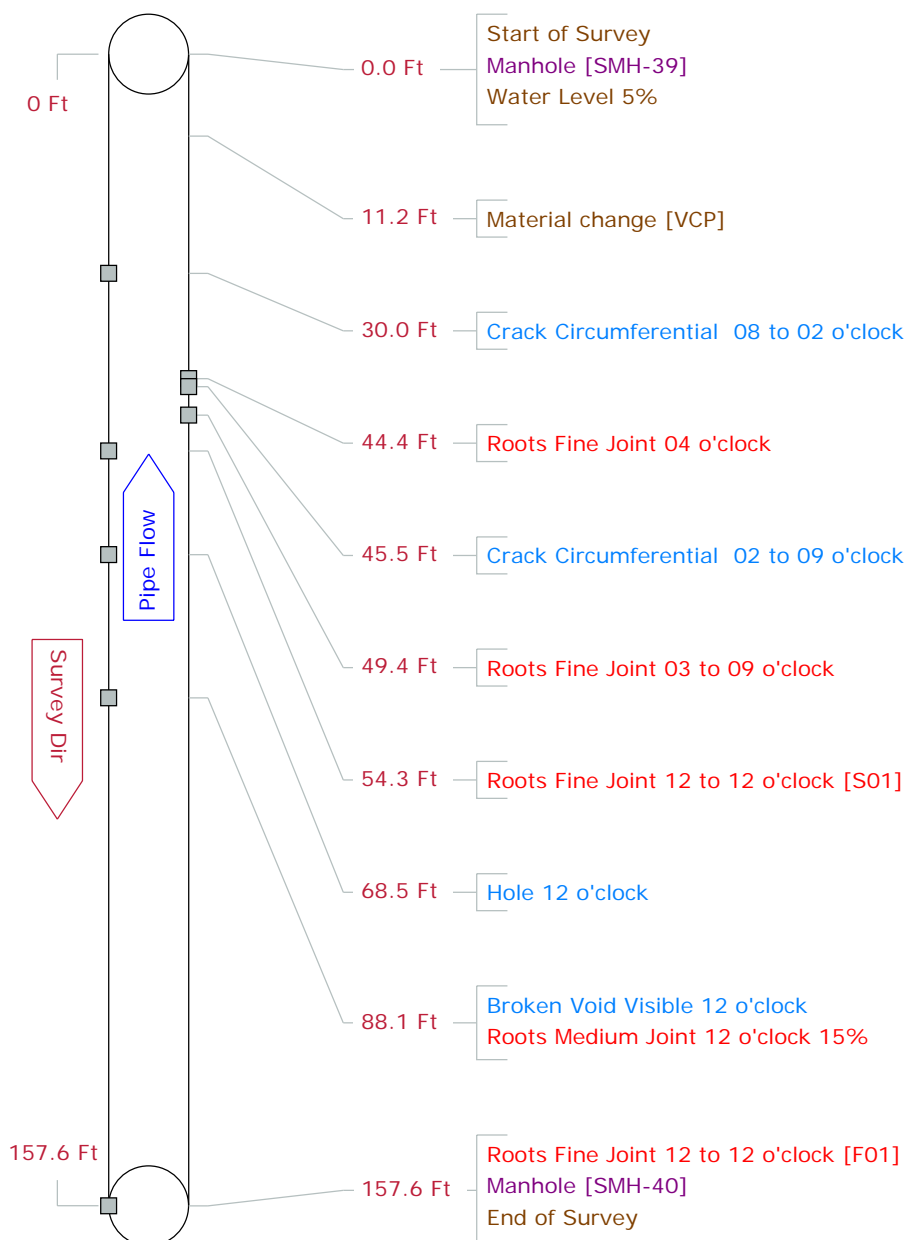
<b>Setup</b> 18	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 8:56	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-37	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> STUB	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Cast Iron	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 90.0 <b>Ft</b>	<b>Length Surveyed</b> 43.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>





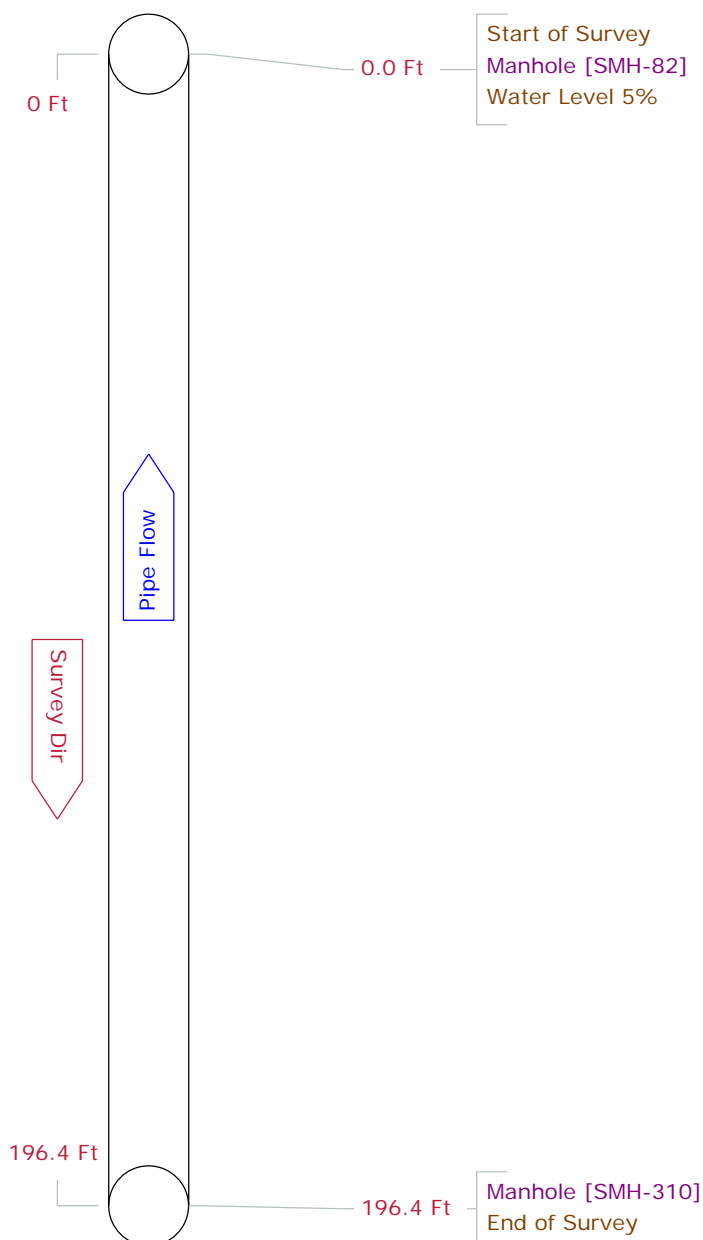
# Pipe Graphic Report of PLR SMH-40 X for WOODARD & CURRAN

<b>Setup</b> 19	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 9:23	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-39	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-40	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8 <b>Width</b> ins	<b>Preclean</b> J	<b>Year Cleaned</b>
<b>Material</b> Polyvinyl Chloride	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 157.6 <b>Ft</b>	<b>Length Surveyed</b> 157.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



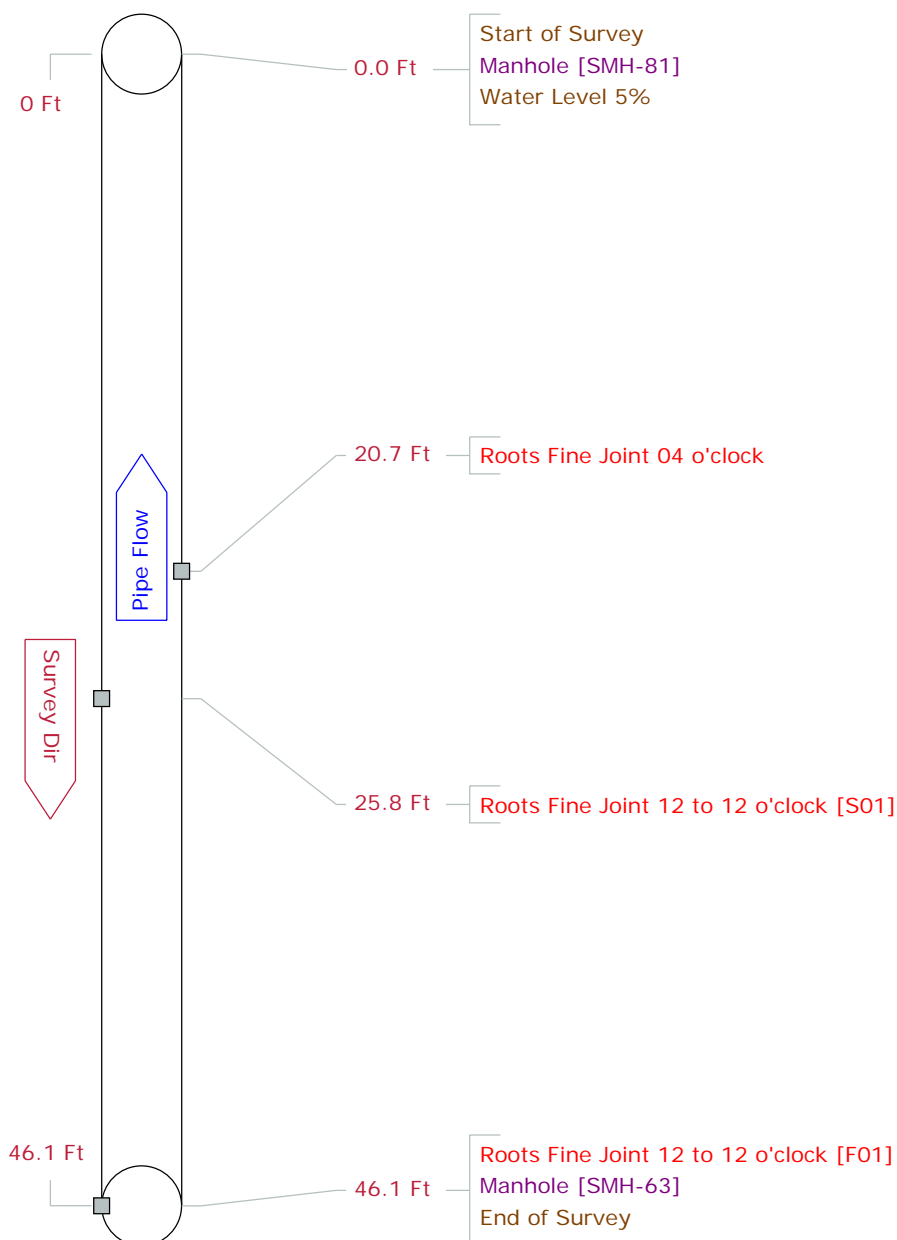
# Pipe Graphic Report of PLR SMH-310 X for WOODARD & CURRAN

<b>Setup</b> 20	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 9:46	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-82	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-310	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 10 <b>Width</b> ins	<b>Preclean</b> J	<b>Year Cleaned</b>
<b>Material</b> Cast Iron	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 196.4 <b>Ft</b>	<b>Length Surveyed</b> 196.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



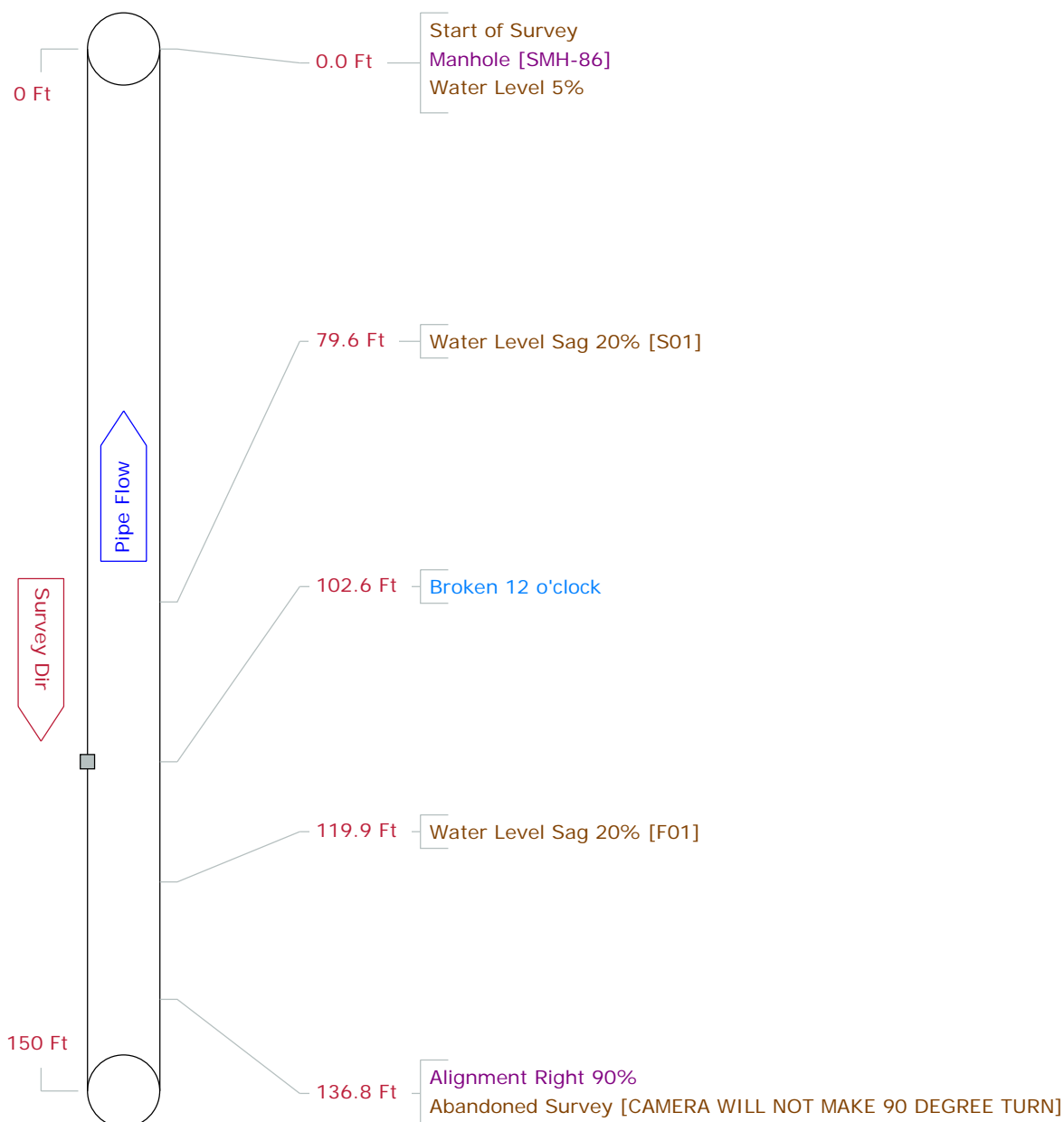
# Pipe Graphic Report of PLR SMH-63 X for WOODARD & CURRAN

<b>Setup</b> 21	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 10:01	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-81	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-63	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 46.1 <b>Ft</b>	<b>Length Surveyed</b> 46.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



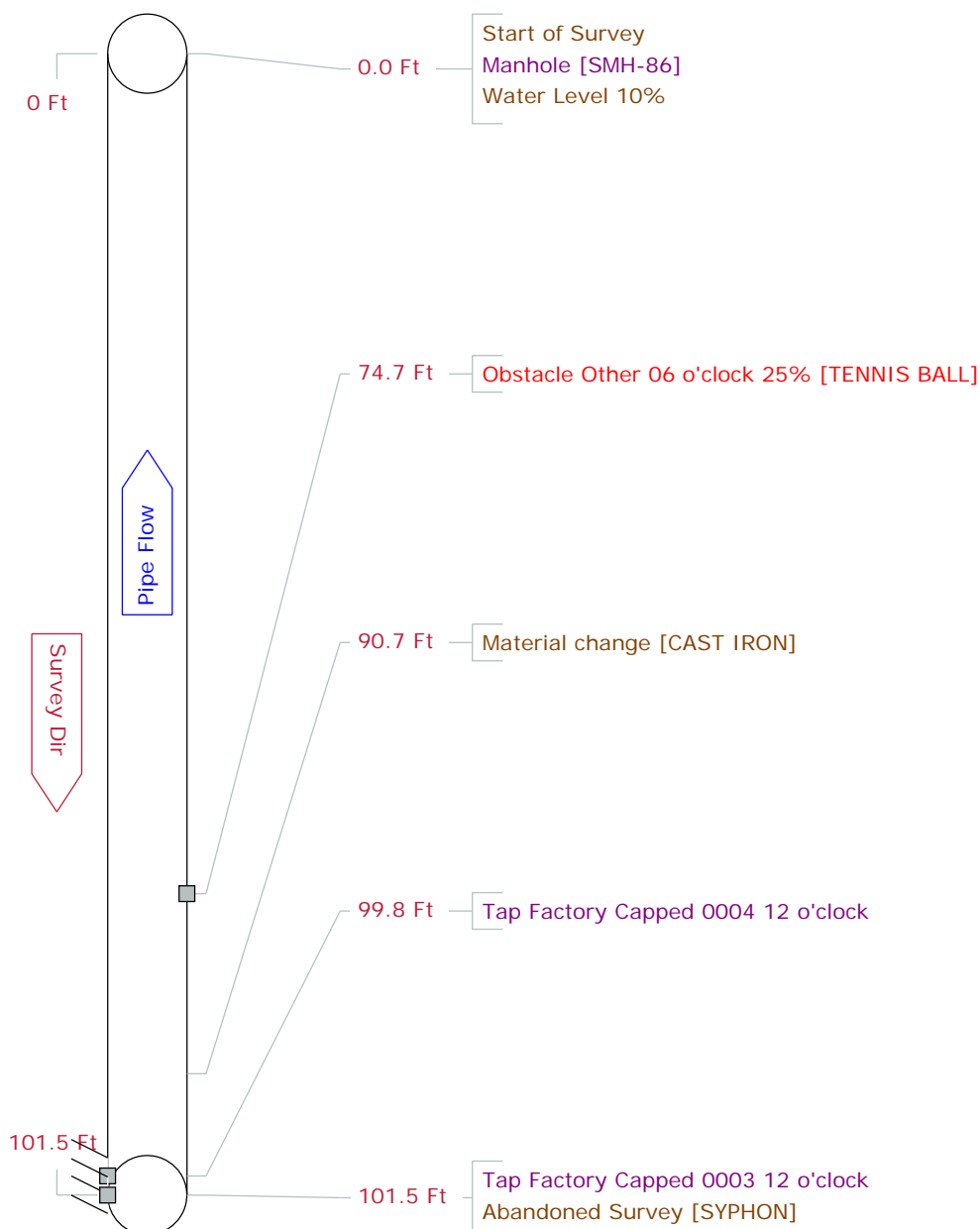
# Pipe Graphic Report of PLR STUB-A X for WOODARD & CURRAN

<b>Setup</b> 22	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 10:14	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-86	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> STUB-A	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Asbestos Cement	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 150.0 <b>Ft</b>	<b>Length Surveyed</b> 136.80
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



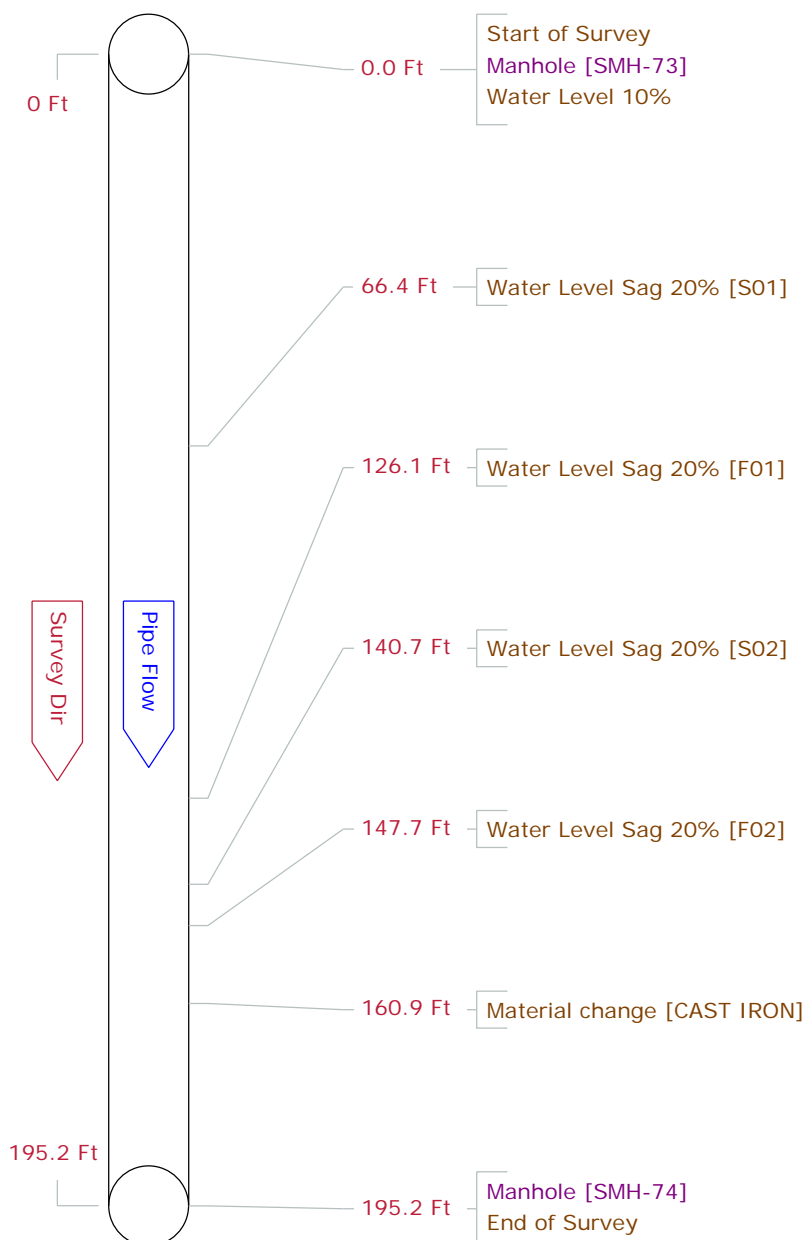
# Pipe Graphic Report of PLR STUB-B X for WOODARD & CURRAN

<b>Setup</b> 23	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 10:27	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-86	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> STUB-B	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Asbestos Cement	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 101.5 <b>Ft</b>	<b>Length Surveyed</b> 101.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



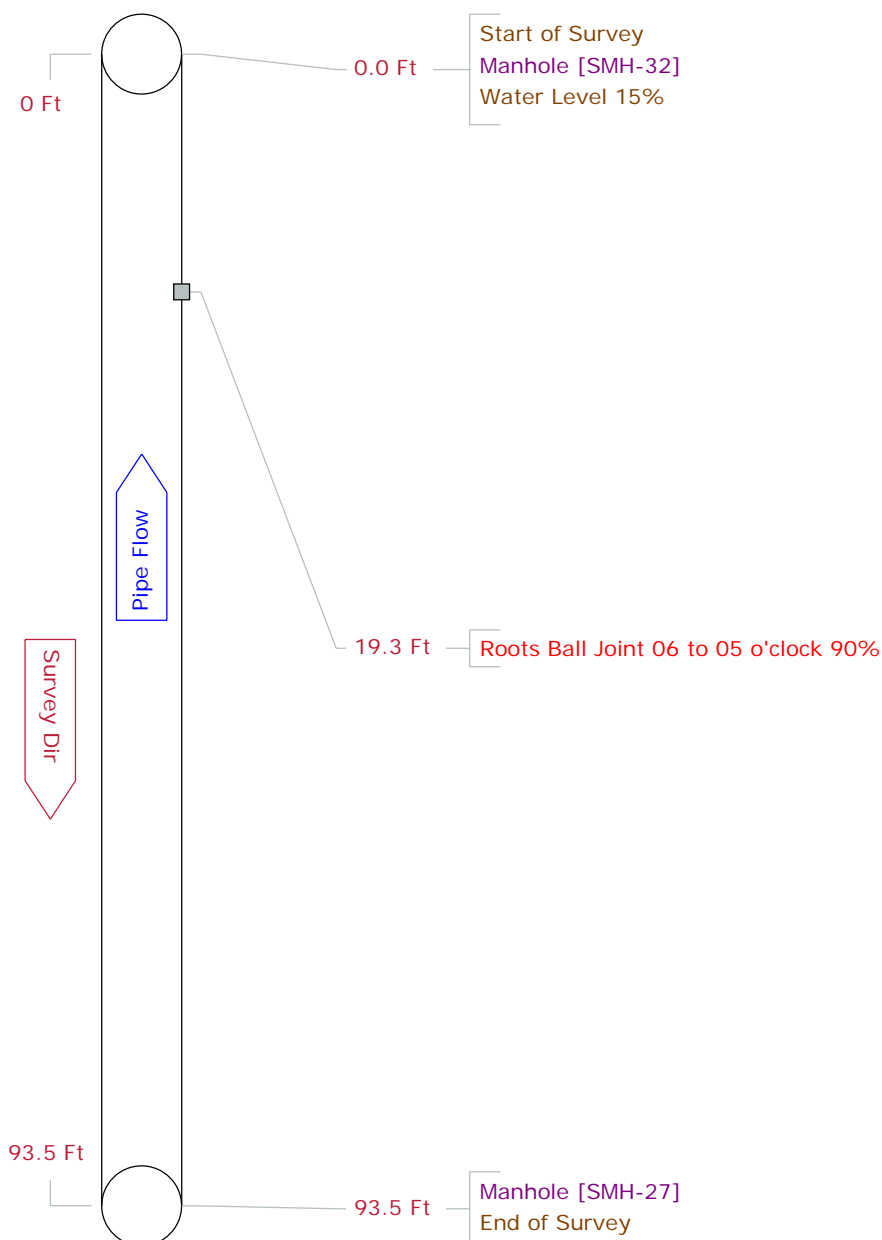
# Pipe Graphic Report of PLR SMH-73 X for WOODARD & CURRAN

<b>Setup</b> 24	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 11:06	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-73	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-74	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 195.2 <b>Ft</b>	<b>Length Surveyed</b> 195.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



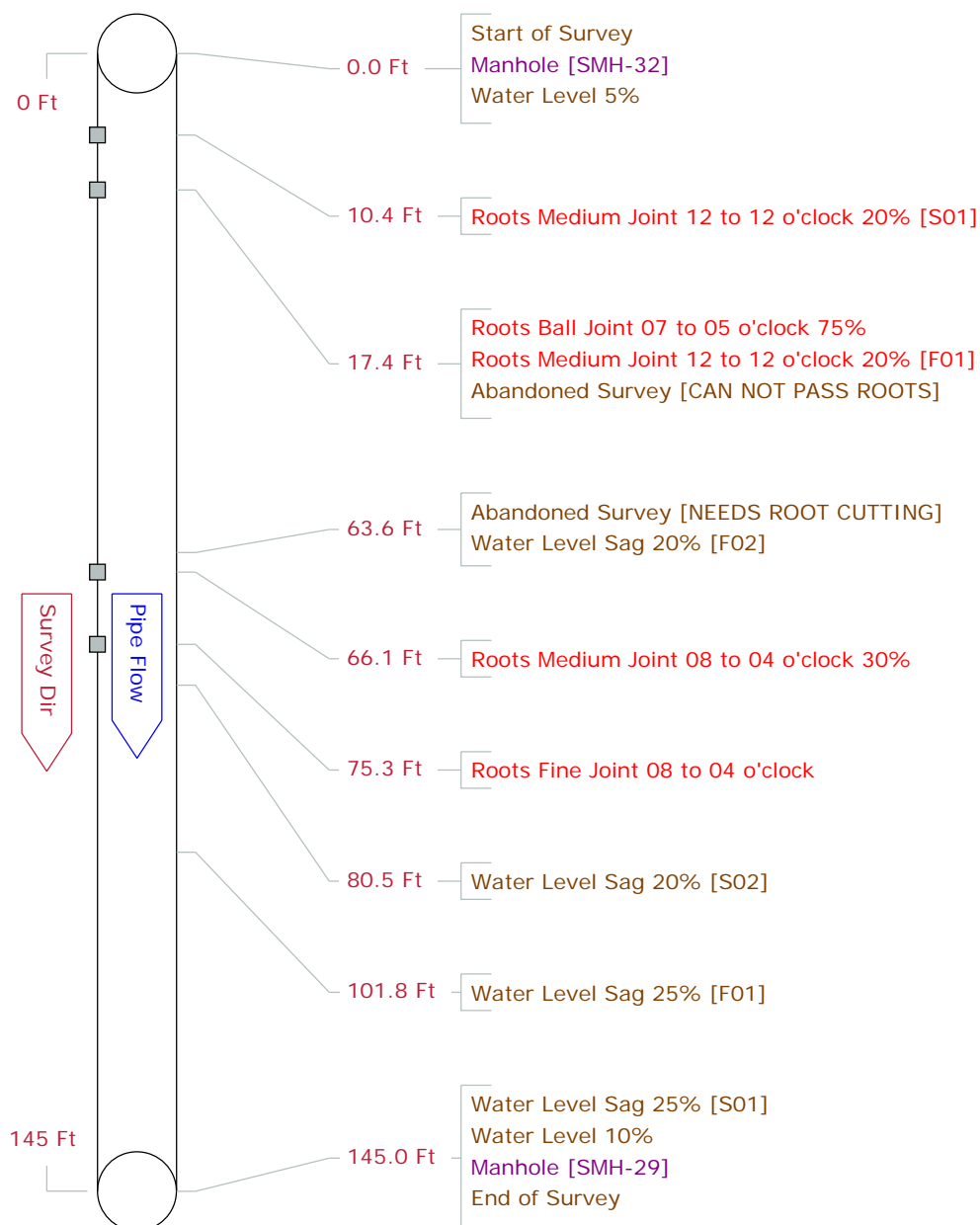
# Pipe Graphic Report of PLR SMH-27 X for WOODARD & CURRAN

<b>Setup</b> 25	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 14:49	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-32	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-27	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8 <b>Width</b> ins	<b>Preclean</b> J	<b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 93.5 <b>Ft</b>	<b>Length Surveyed</b> 93.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR SMH-32 X for WOODARD & CURRAN

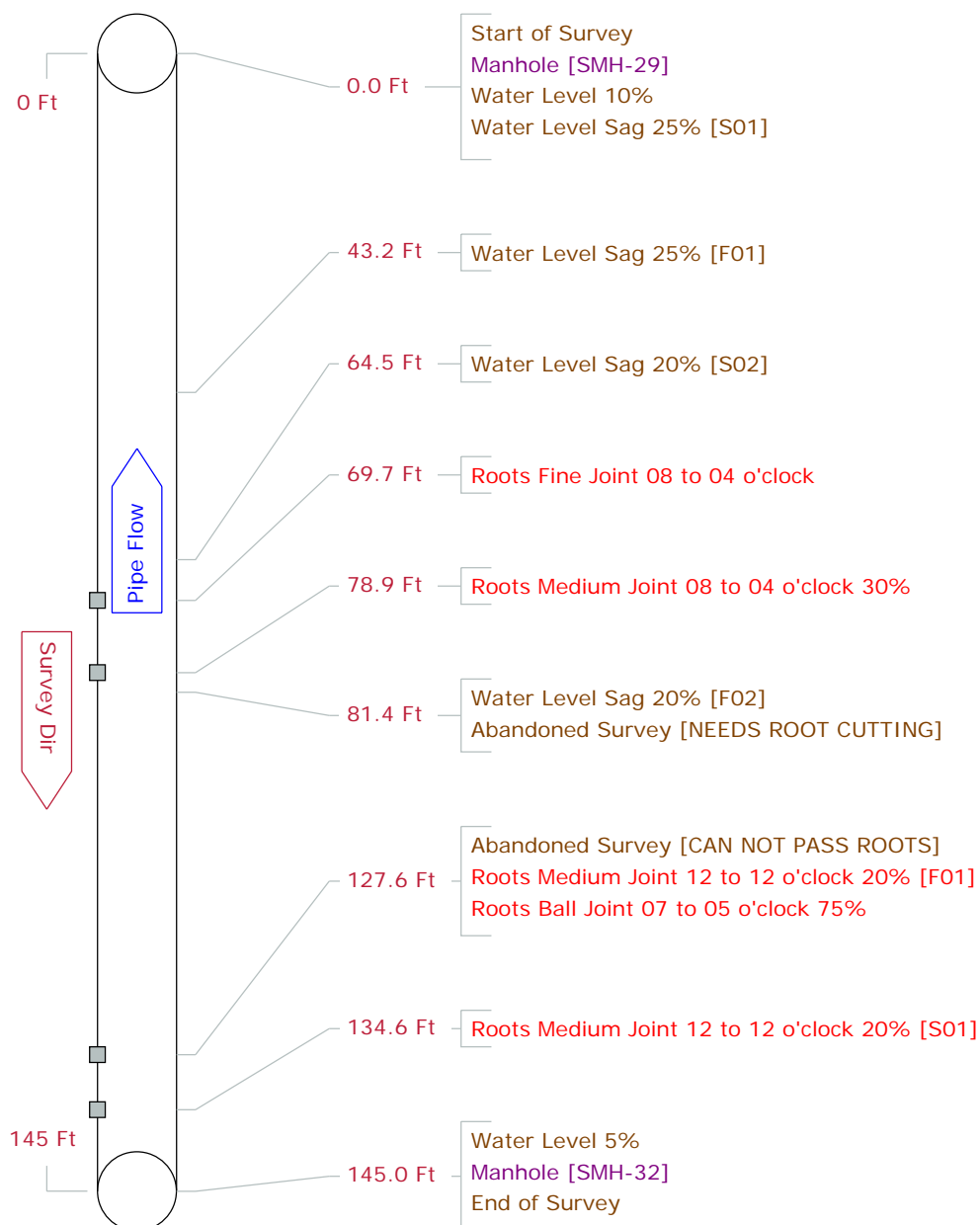
<b>Setup</b> 26/27	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 15:19	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-32	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-29	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 145.0 <b>Ft</b>	<b>Length Surveyed</b> 17.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>





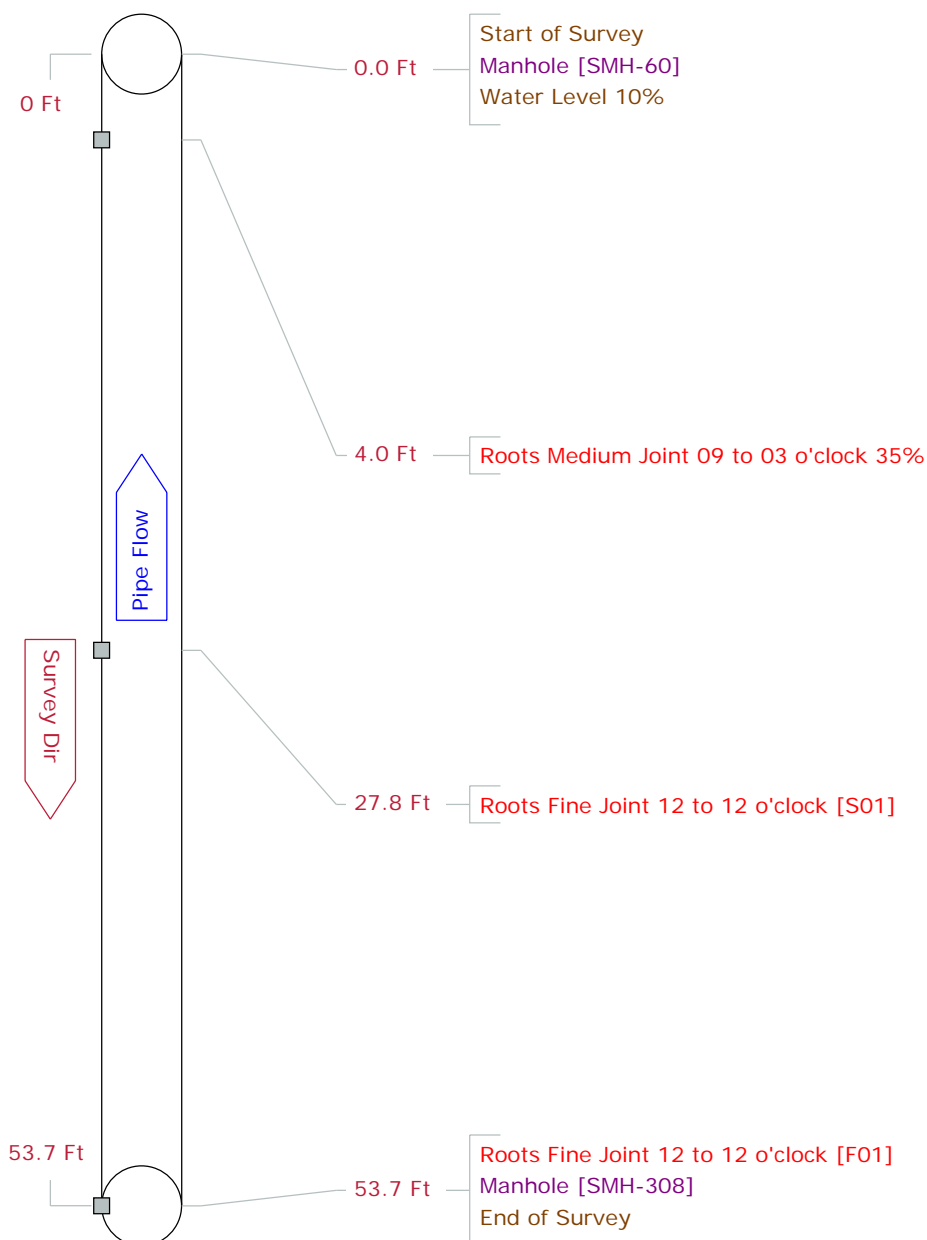
# Pipe Graphic Report of PLR SMH-32 X for WOODARD & CURRAN

<b>Setup</b> 27/26	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 15:19	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-29	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-32	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b>	<b>Ft</b> <b>Total length</b> 145.0	<b>Ft</b> <b>Length Surveyed</b> 81.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:26		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



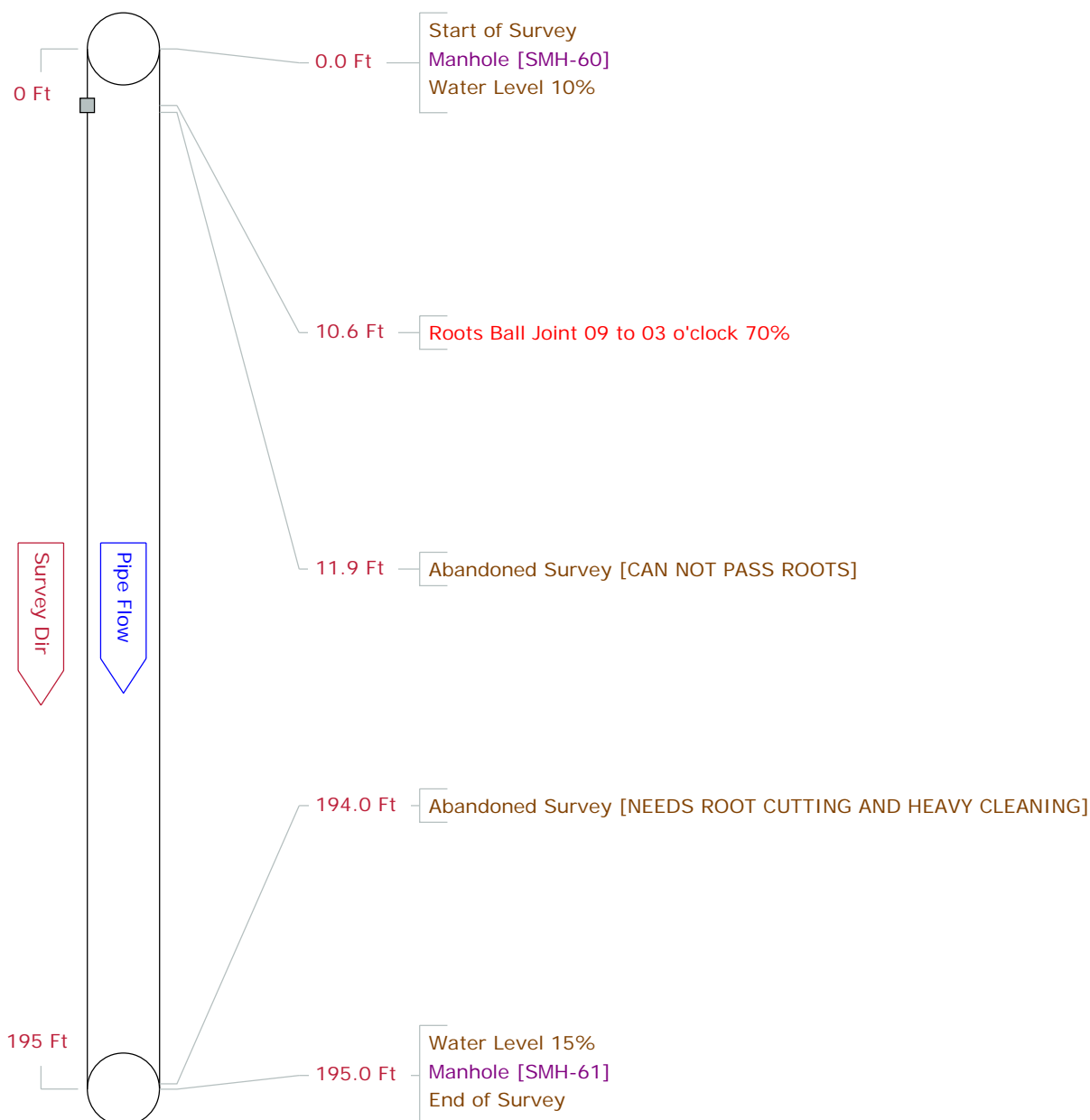
# Pipe Graphic Report of PLR SMH-308 X for WOODARD & CURRAN

<b>Setup</b> 28	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 17:54	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-60	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-308	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8 <b>Width</b> ins	<b>Preclean</b> J	<b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 53.7 <b>Ft</b>	<b>Length Surveyed</b> 53.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>
		<b>Constructional</b>	



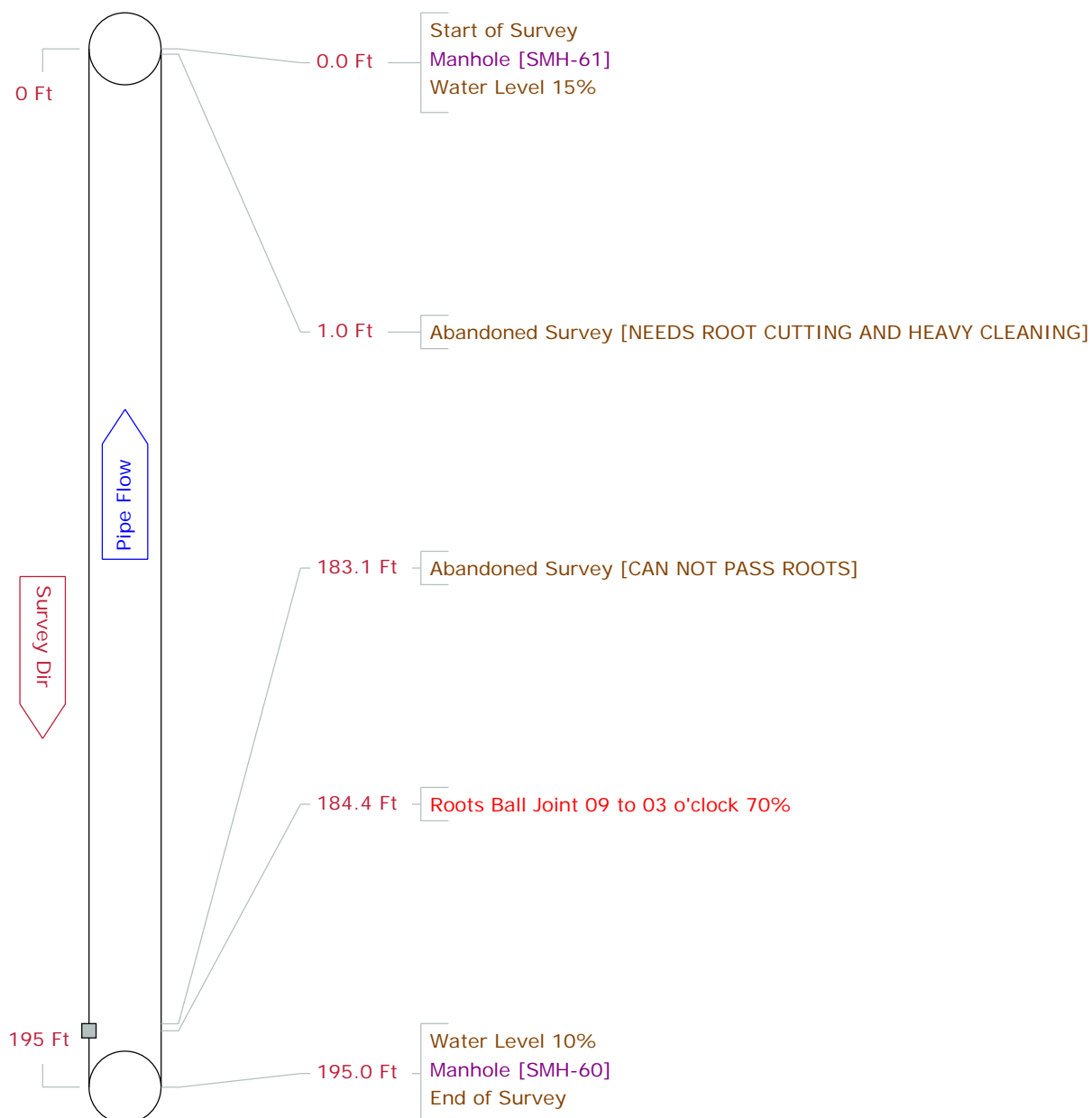
# Pipe Graphic Report of PLR SMH-60 X for WOODARD & CURRAN

<b>Setup</b> 29/30	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 18:10	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-60	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-61	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 195.0 <b>Ft</b>	<b>Length Surveyed</b> 11.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



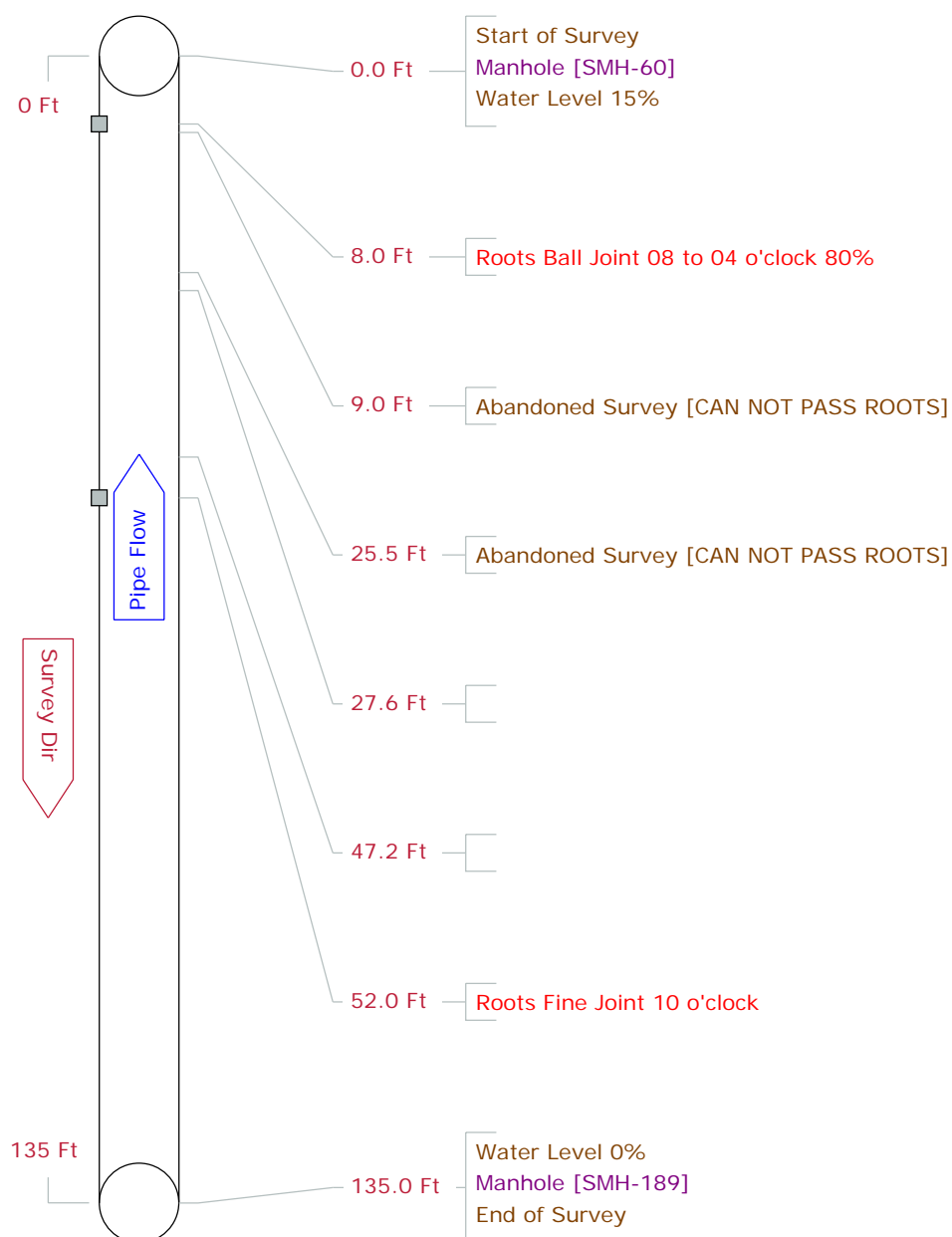
# Pipe Graphic Report of PLR SMH-60 X for WOODARD & CURRAN

<b>Setup</b> 30/29	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 6:19	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-61	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-60	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 195.0 <b>Ft</b>	<b>Length Surveyed</b> 01.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:29		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



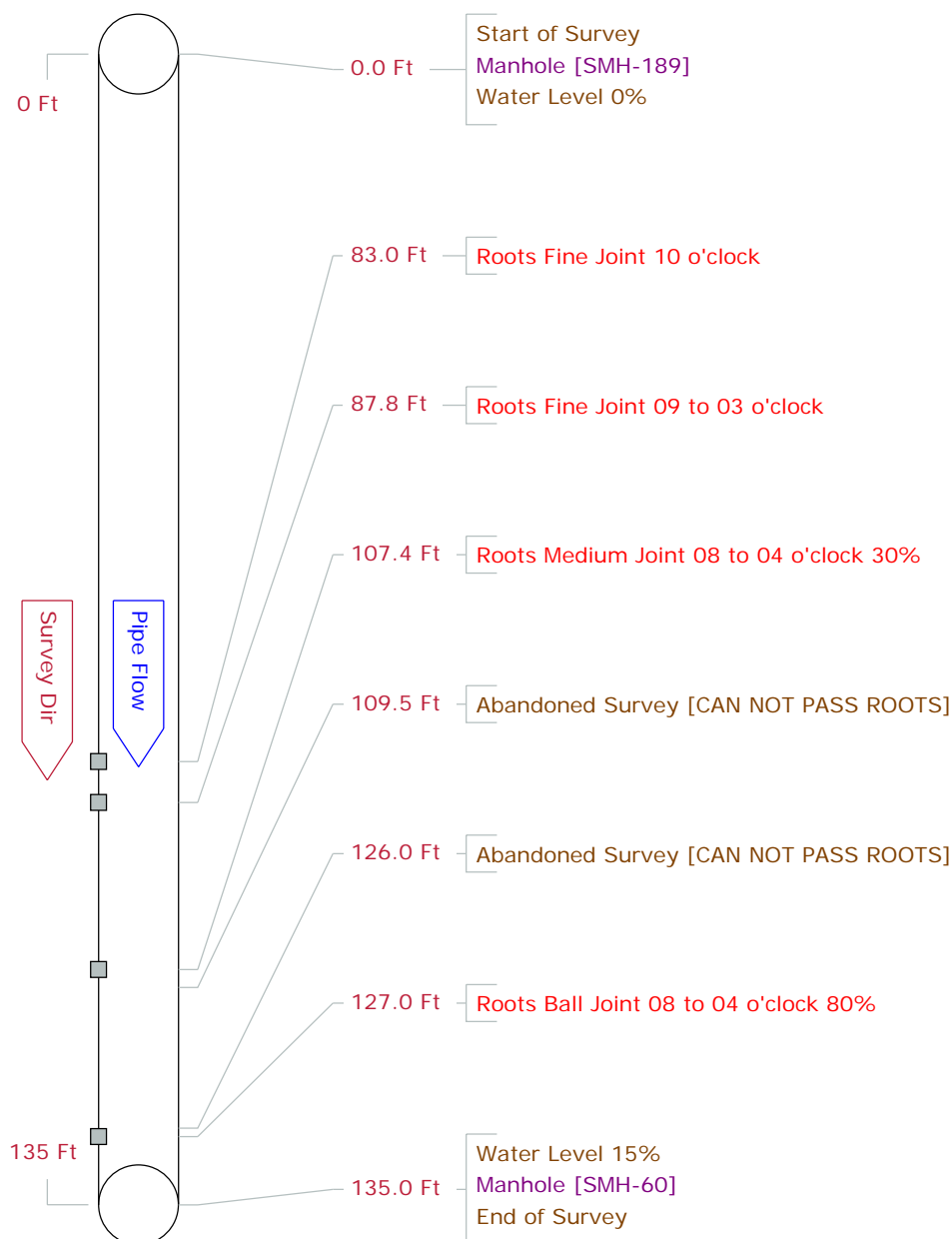
# Pipe Graphic Report of PLR SMH-189 X for WOODARD & CURRAN

<b>Setup</b> 31/32	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 18:23	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-60	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-189	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b>	<b>Ft</b>	<b>Total length</b> 135.0 <b>Ft</b>
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



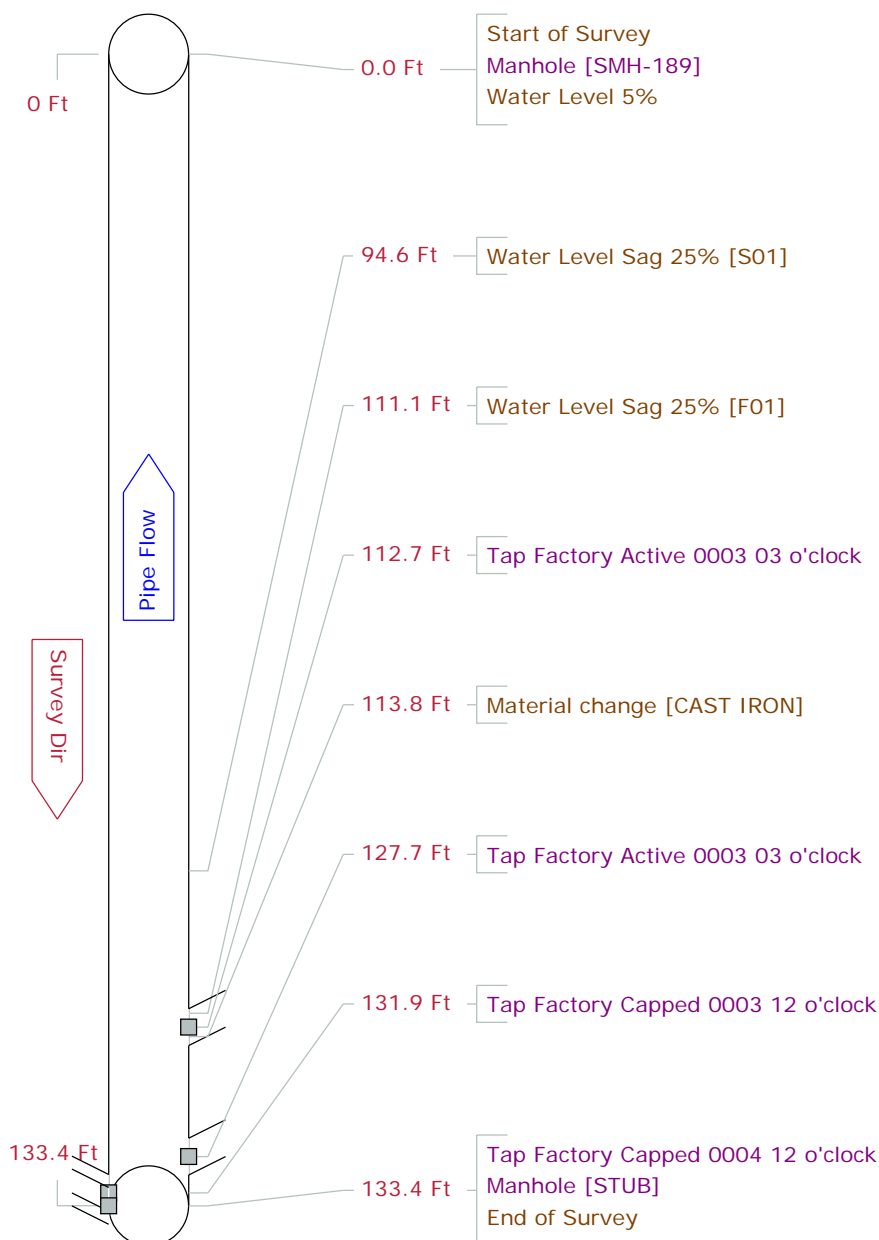
# Pipe Graphic Report of PLR SMH-189 X for WOODARD & CURRAN

<b>Setup</b> 32/31	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/23	<b>Time</b> 6:28	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-189	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-60	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 135.0 <b>Ft</b>	<b>Length Surveyed</b> 109.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Heavy Rain
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:31		<b>Structural</b>	<b>O&amp;M</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>
		<b>Constructional</b>	



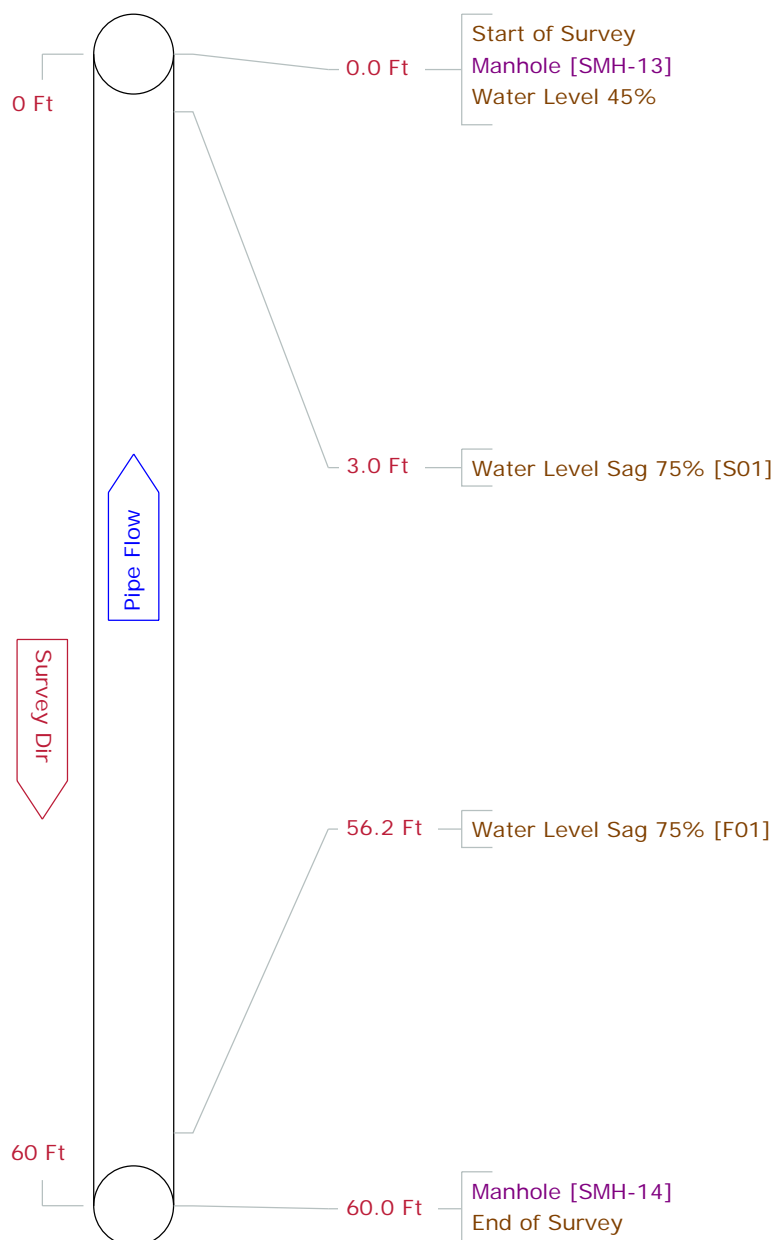
# Pipe Graphic Report of PLR STUB Y for WOODARD & CURRAN

<b>Setup</b> 33	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 8:31	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-189	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> STUB	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8 <b>Width</b> ins	<b>Preclean</b> J	<b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 133.4 <b>Ft</b>	<b>Length Surveyed</b> 133.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR SMH-14 Y for WOODARD & CURRAN

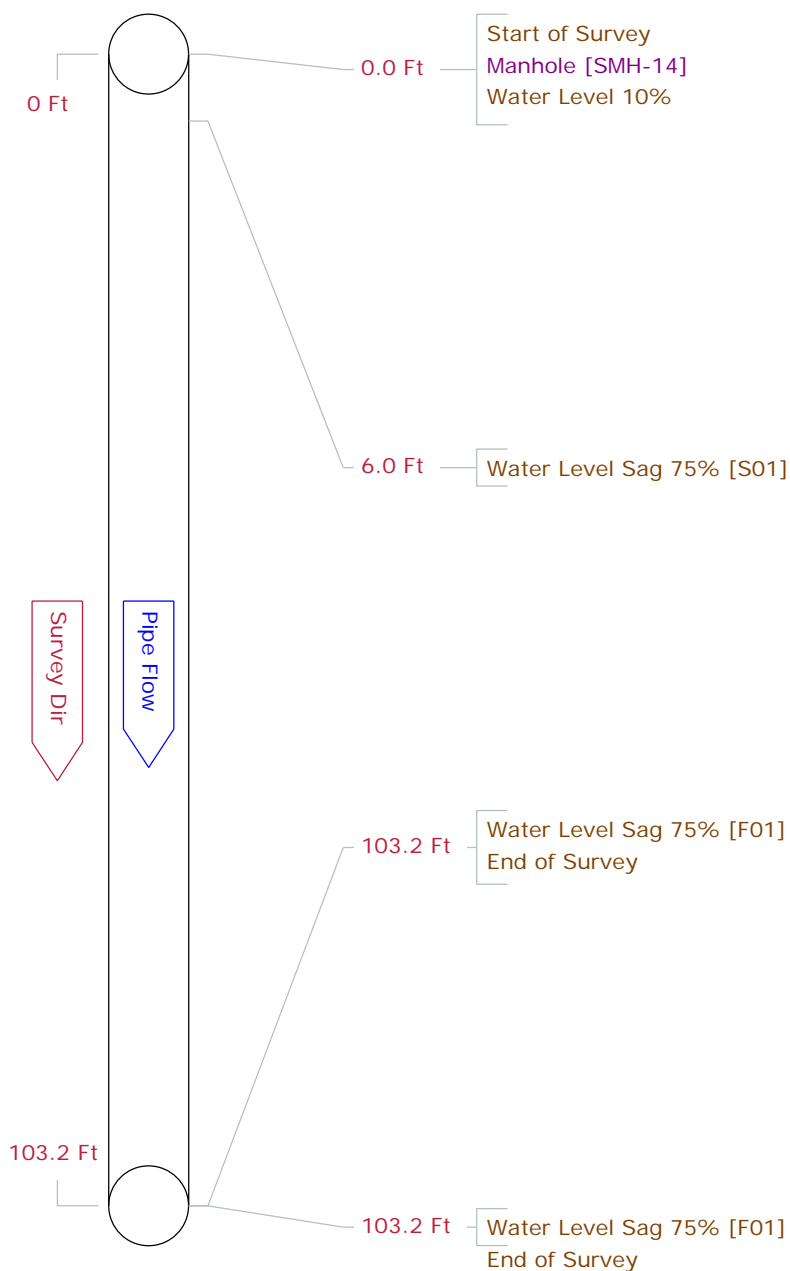
<b>Setup</b> 34	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 8:54	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-14	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-13	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 60.0 <b>Ft</b>	<b>Length Surveyed</b> 60.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>





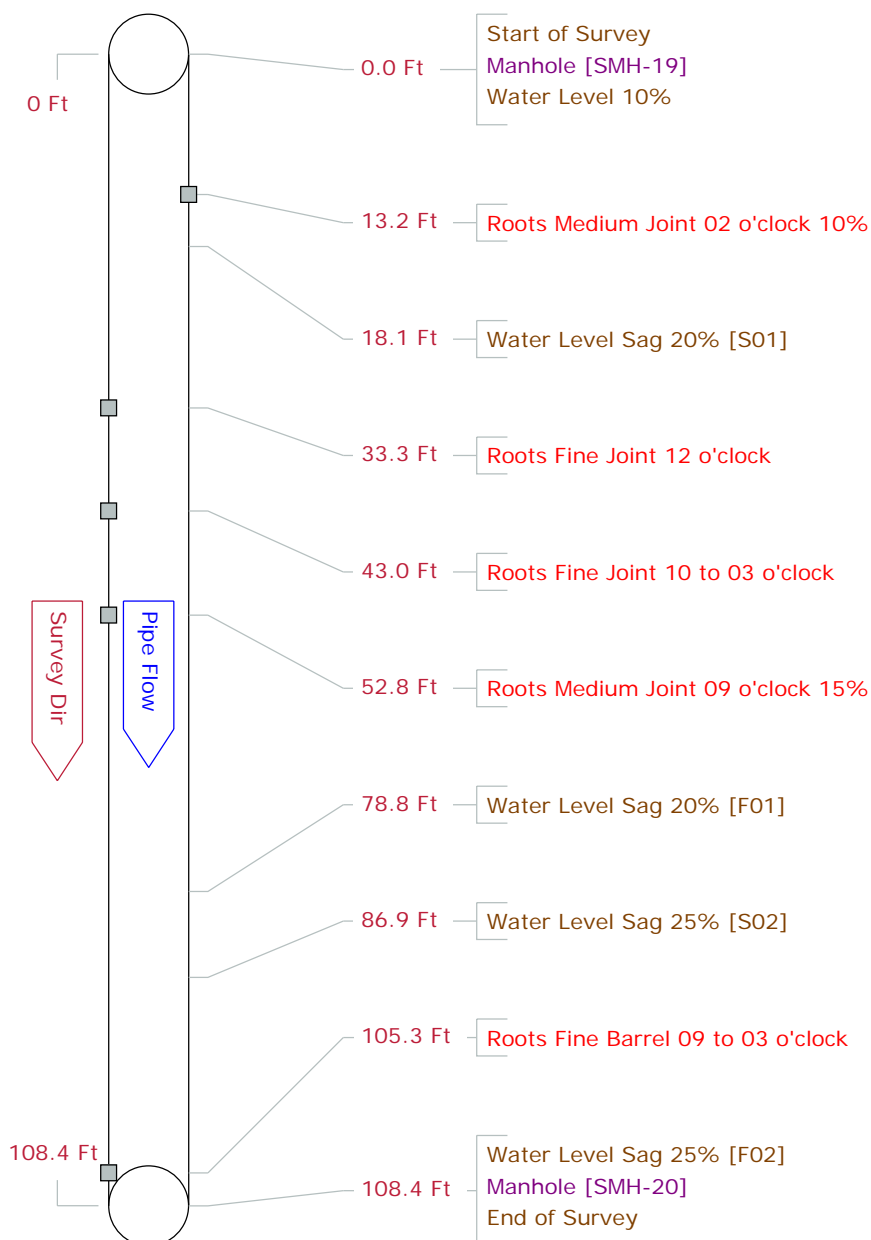
# Pipe Graphic Report of PLR SMH-14 X for WOODARD & CURRAN

<b>Setup</b> 35	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 9:05	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-14	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-15	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 103.2 <b>Ft</b>	<b>Length Surveyed</b> 103.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



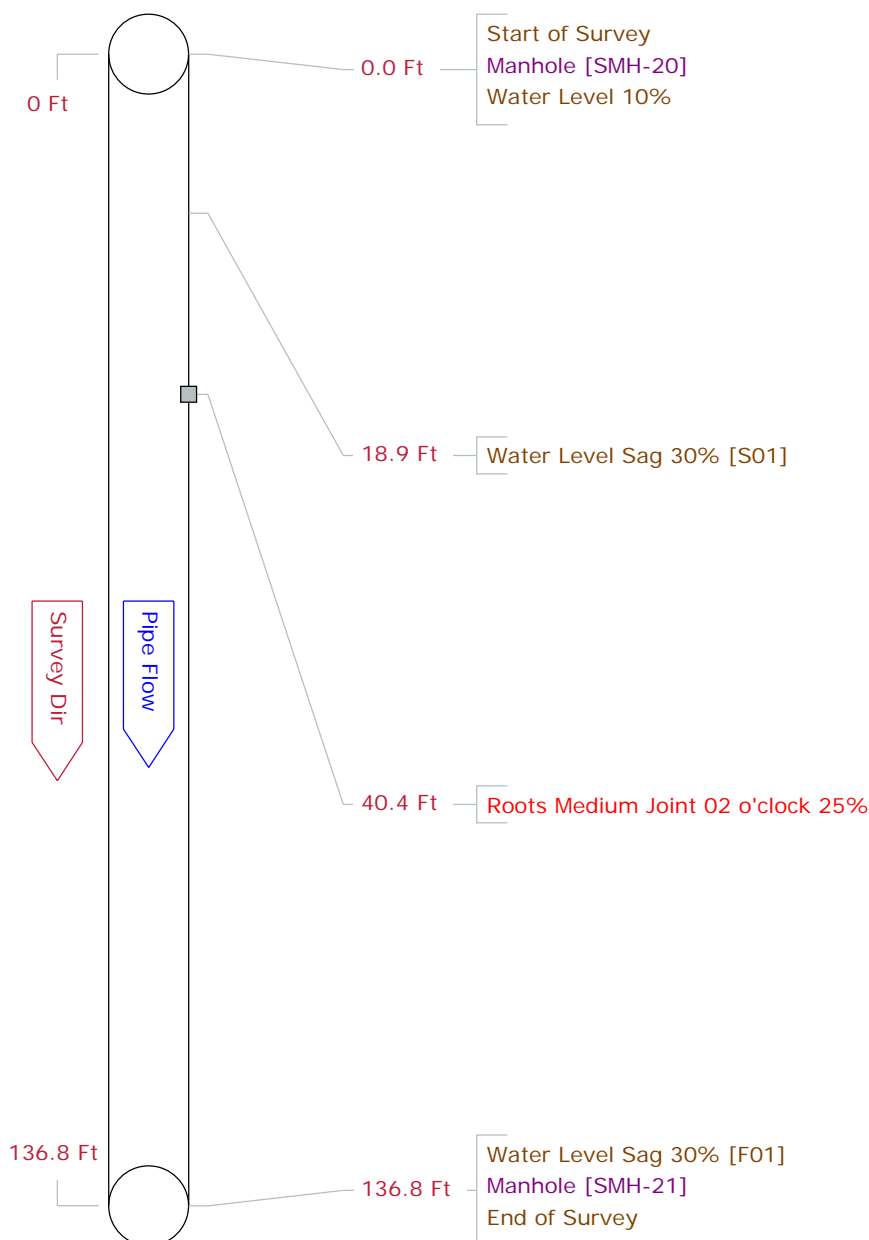
# Pipe Graphic Report of PLR SMH-19 W for WOODARD & CURRAN

<b>Setup</b> 36	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 10:04	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-19	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-20	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 108.4 <b>Ft</b>	<b>Length Surveyed</b> 108.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



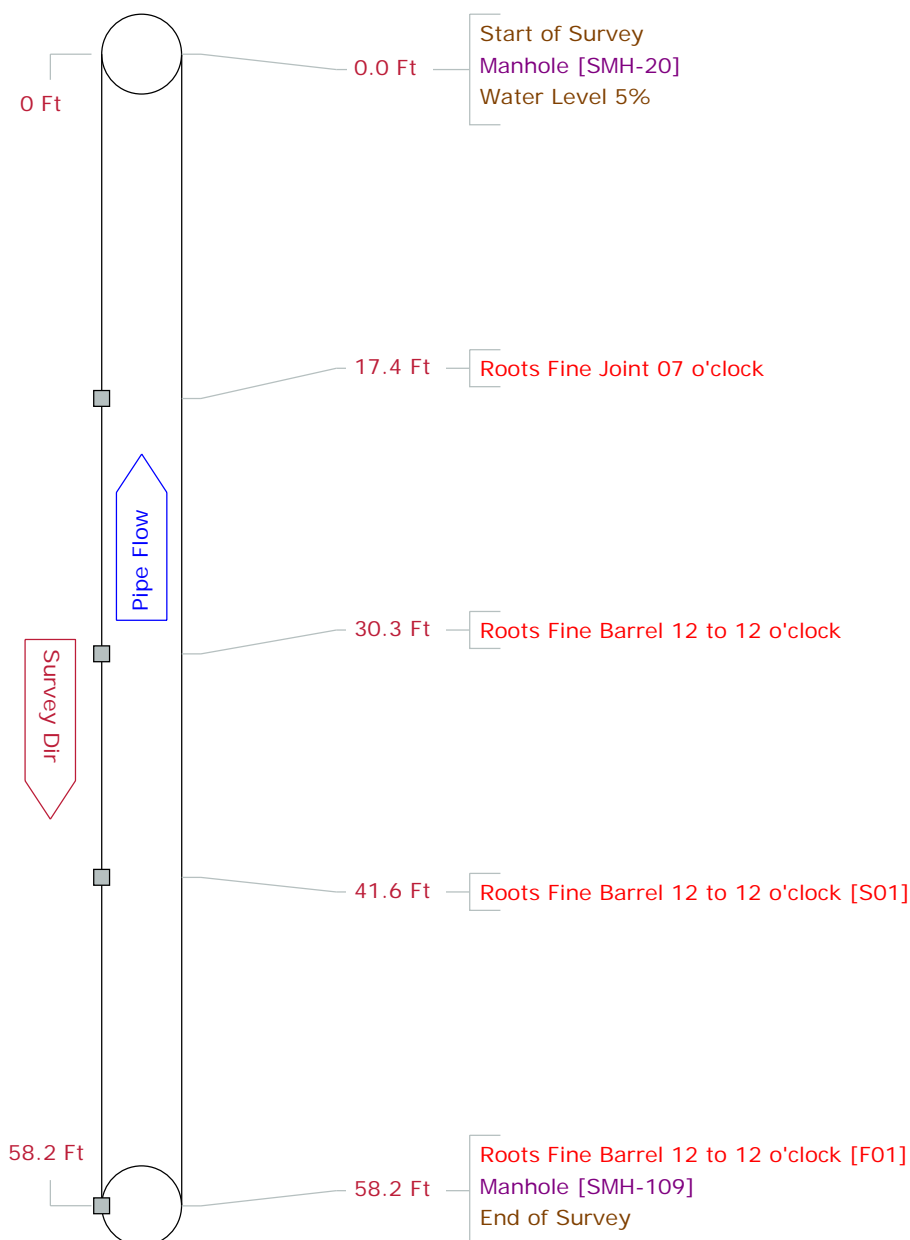
# Pipe Graphic Report of PLR SMH-20 W for WOODARD & CURRAN

<b>Setup</b> 37	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 10:21	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-20	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-21	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 136.8	<b>Ft</b> <b>Length Surveyed</b> 136.80
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



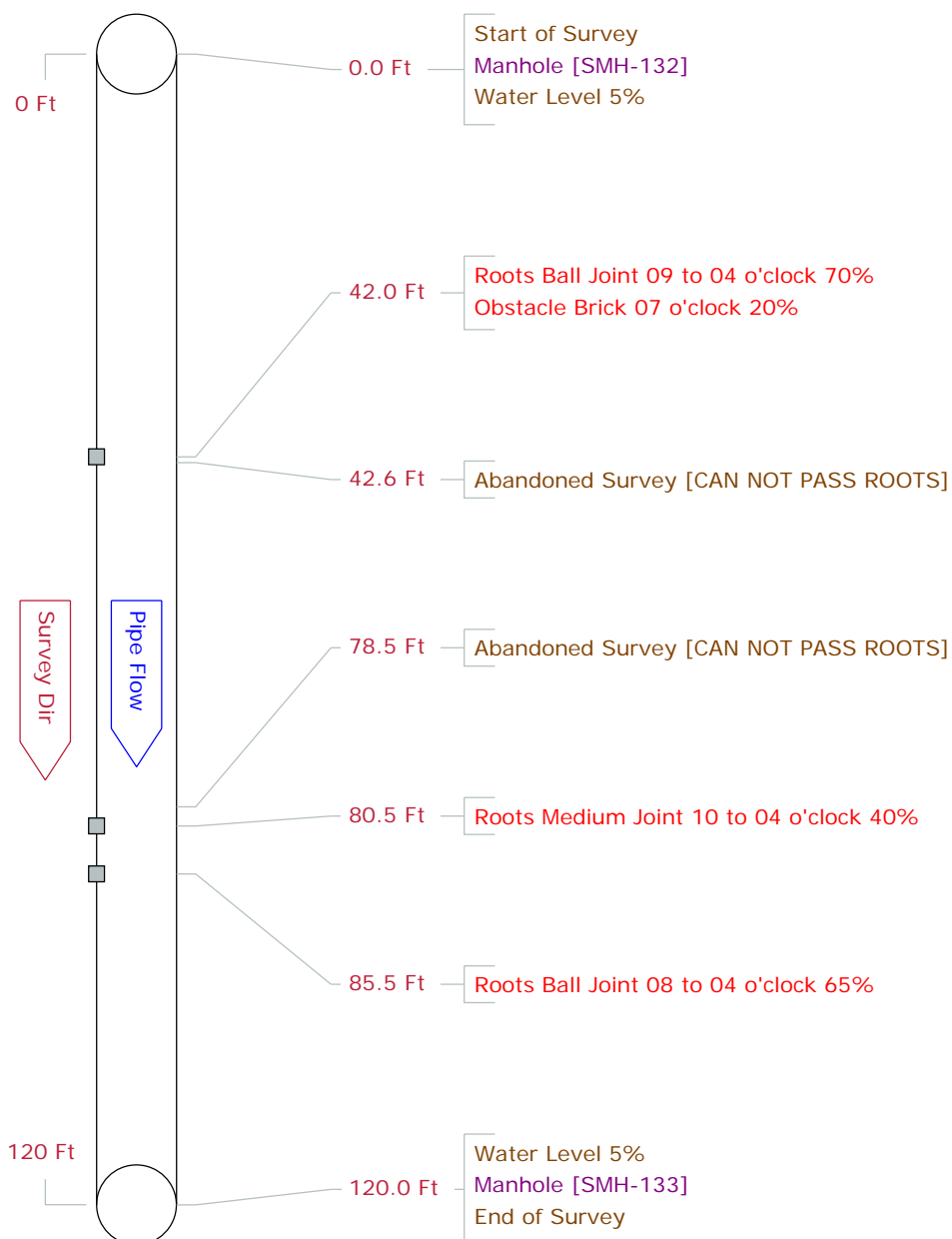
# Pipe Graphic Report of PLR SMH-109 W for WOODARD & CURRAN

<b>Setup</b> 38	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 10:39	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-20	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-109	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 58.2 <b>Ft</b>	<b>Length Surveyed</b> 58.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



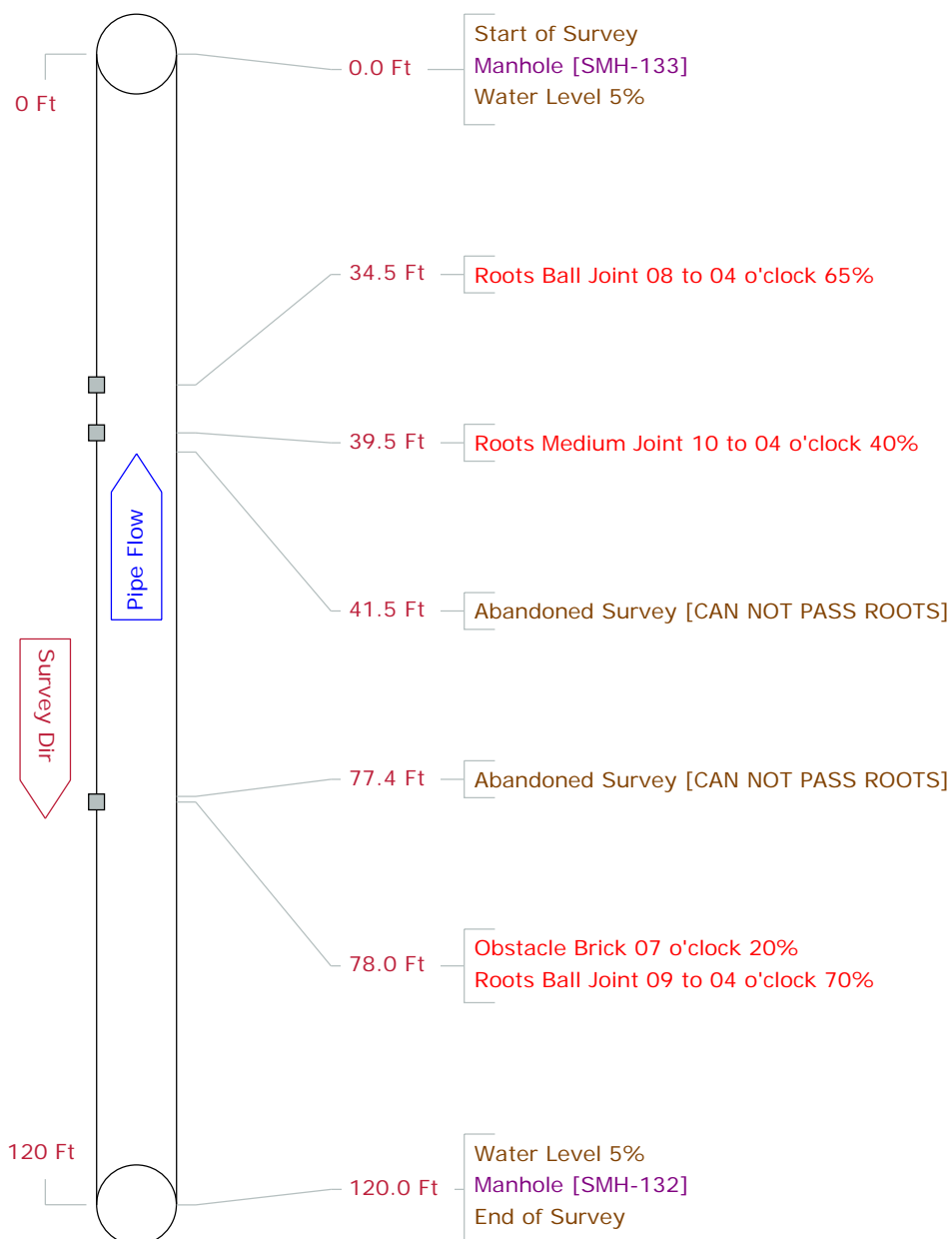
# Pipe Graphic Report of PLR SMH-132 W for WOODARD & CURRAN

<b>Setup</b> 39/40	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 11:07	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-132	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-133	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 120.0 <b>Ft</b>	<b>Length Surveyed</b> 42.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



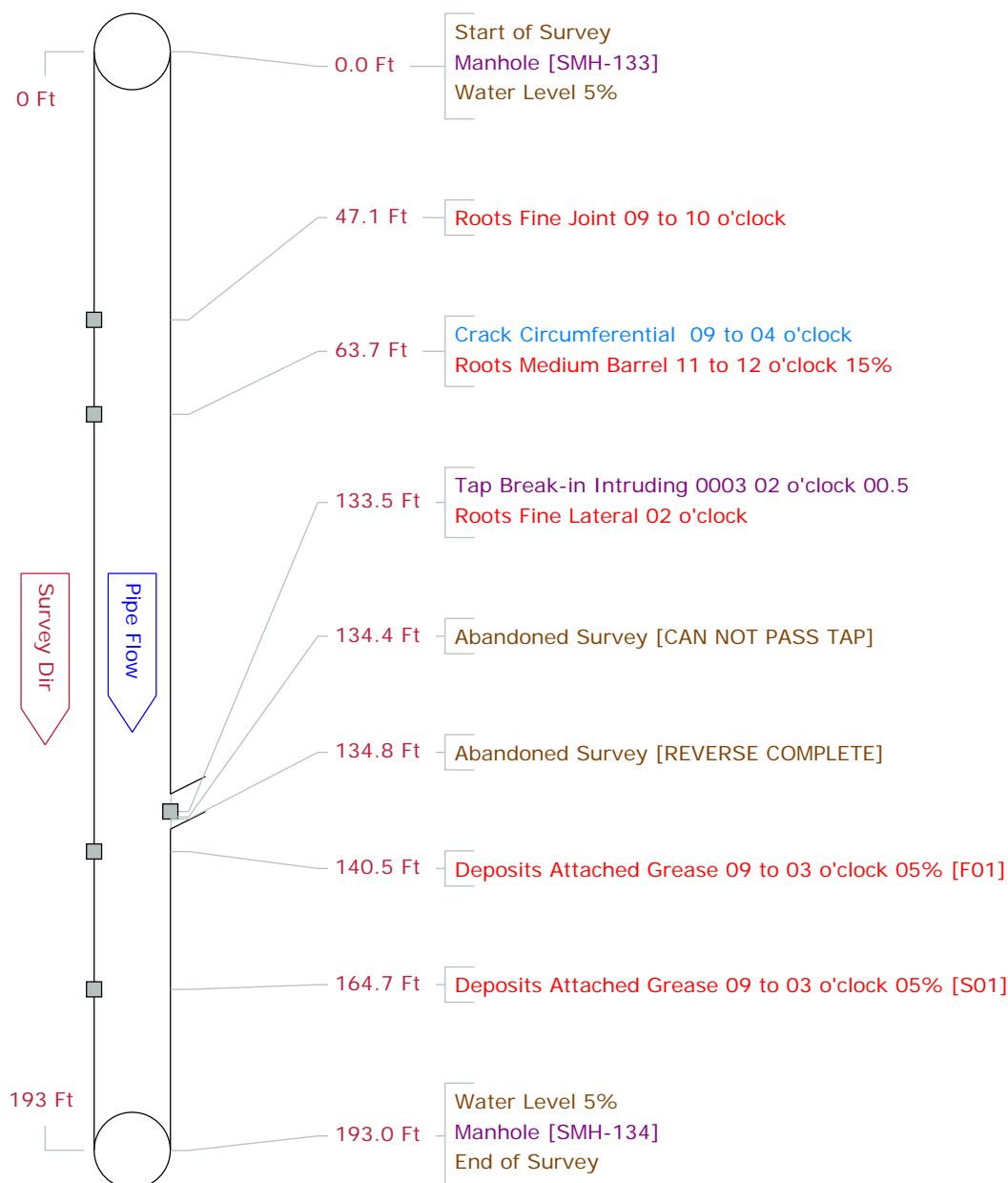
# Pipe Graphic Report of PLR SMH-132 W for WOODARD & CURRAN

<b>Setup</b> 40/39	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 11:14	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-133	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-132	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 120.0 <b>Ft</b>	<b>Length Surveyed</b> 41.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:39		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



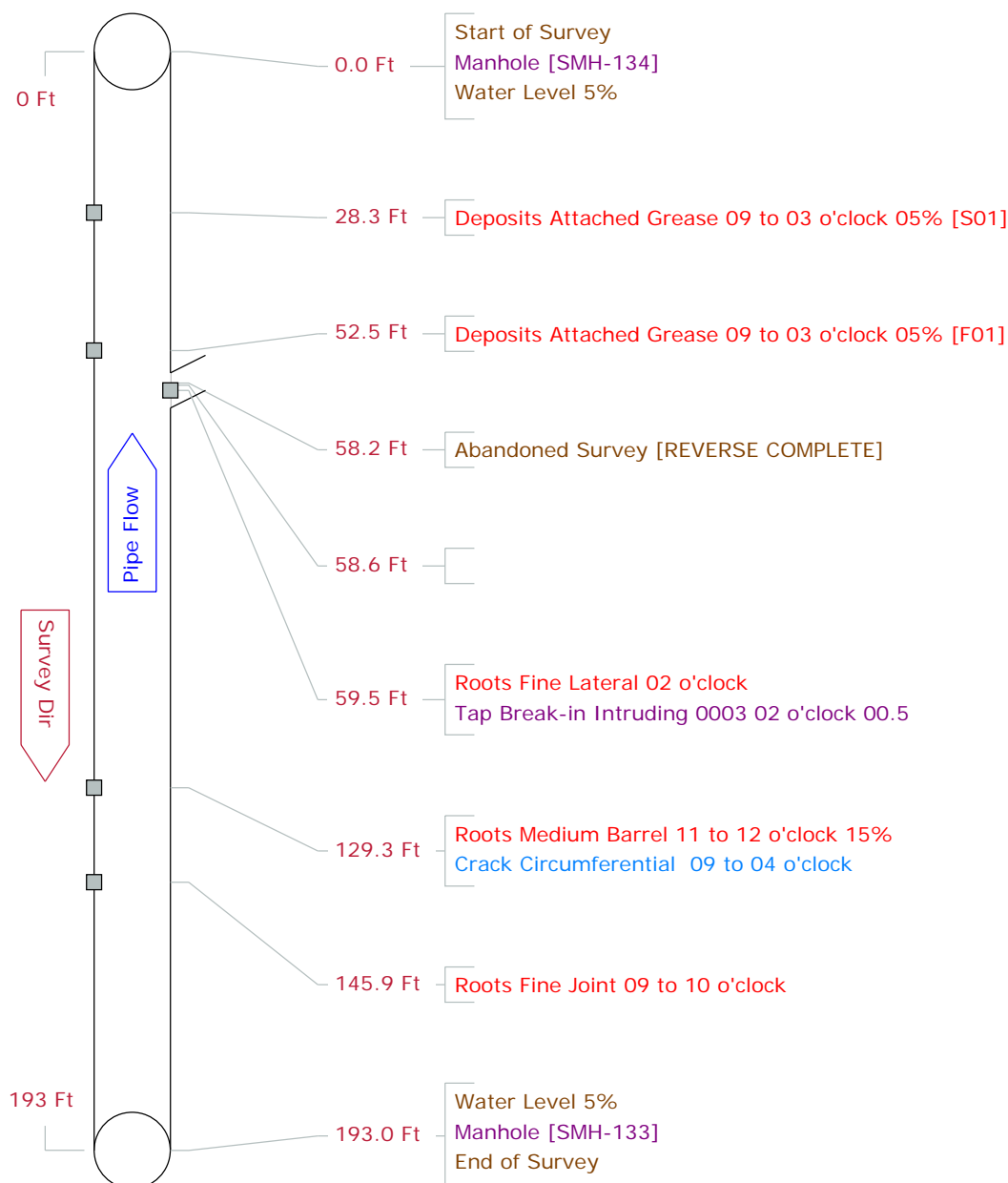
# Pipe Graphic Report of PLR SMH-133 W for WOODARD & CURRAN

<b>Setup</b> 41/42	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 11:23	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-133	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-134	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 193.0 <b>Ft</b>	<b>Length Surveyed</b> 134.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR SMH-133 W for WOODARD & CURRAN

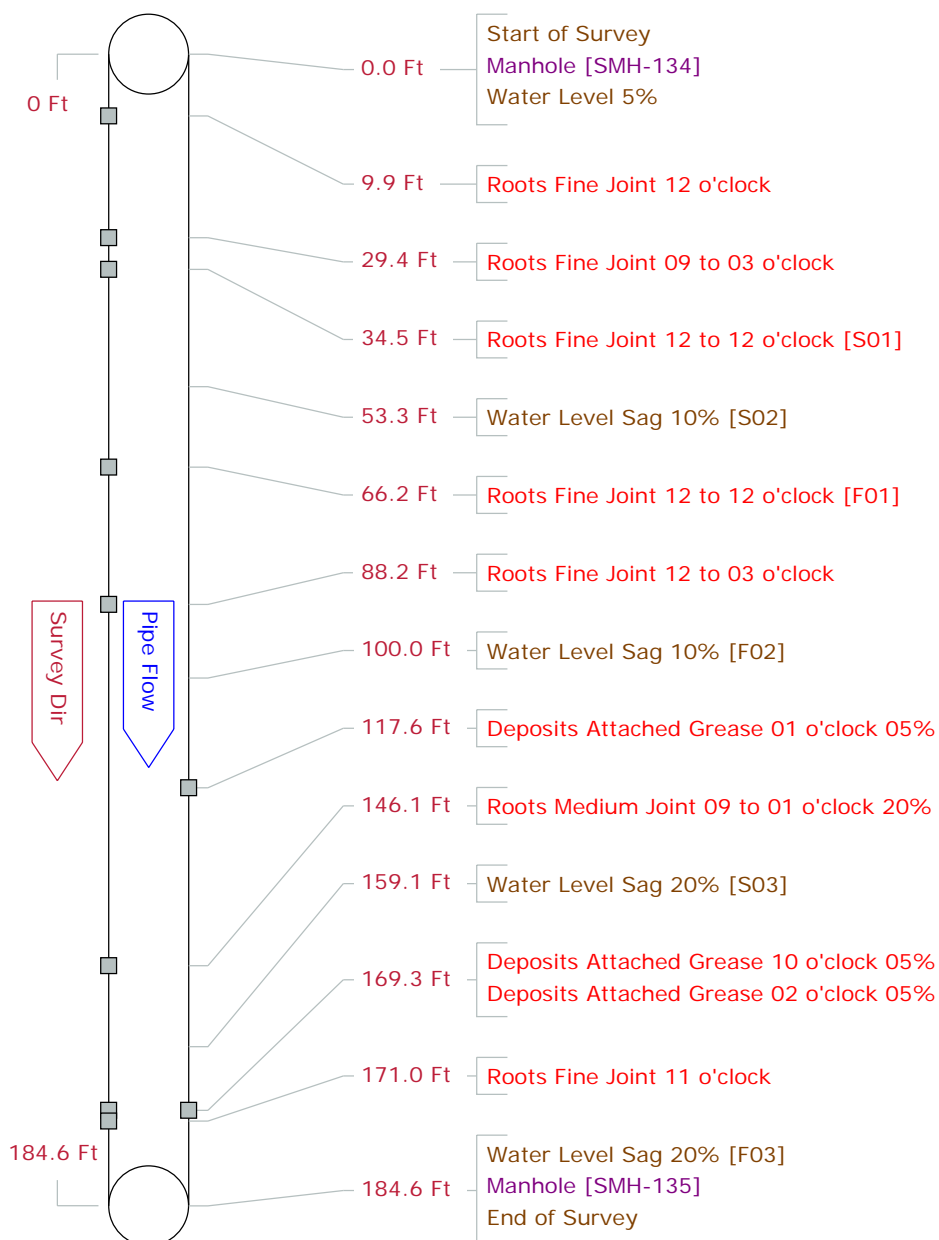
<b>Setup</b> 42/41	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 11:30	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-134	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-133	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b>	<b>Ft</b> <b>Total length</b> 193.0	<b>Ft</b> <b>Length Surveyed</b> 58.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:41		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>





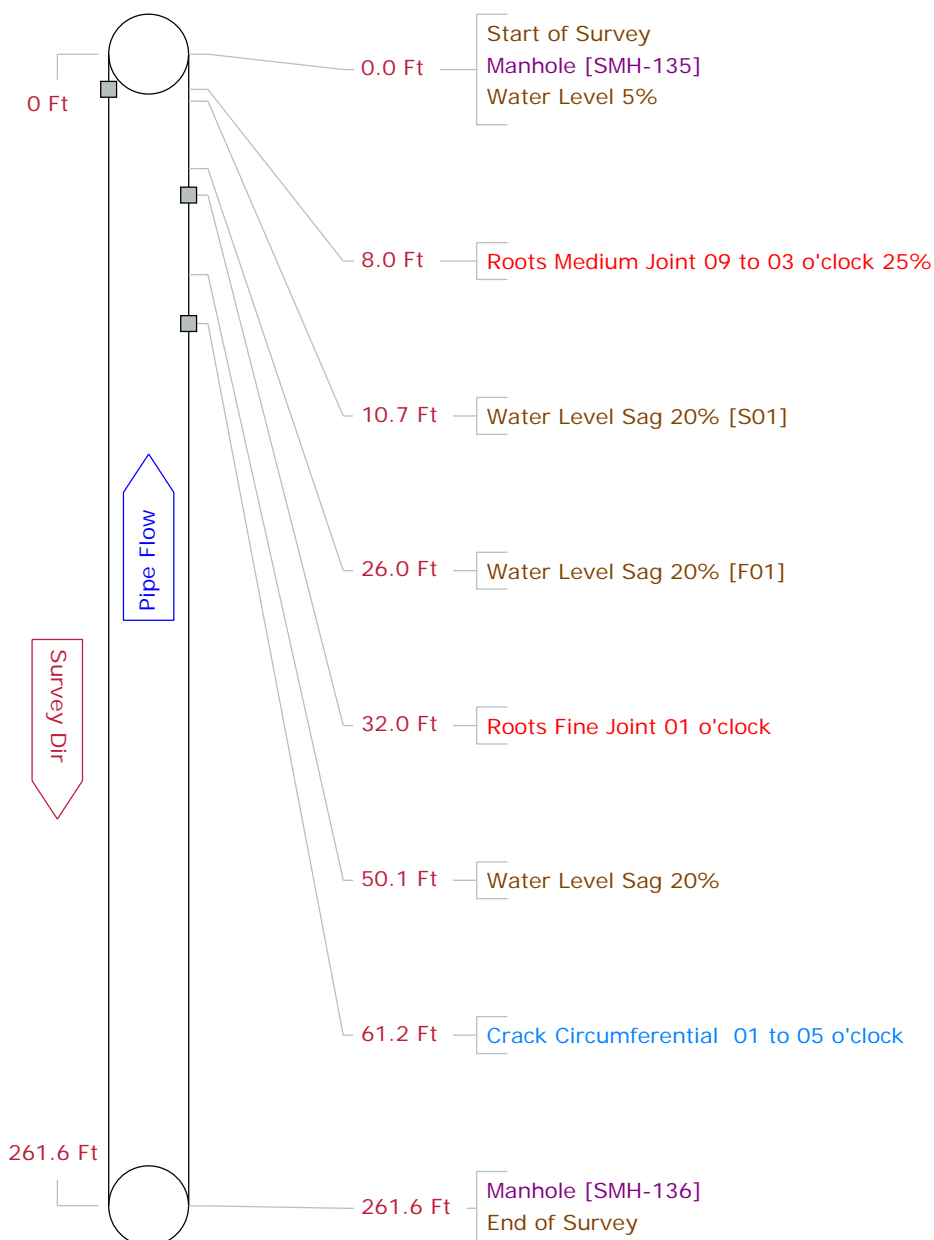
# Pipe Graphic Report of PLR SMH-134 W for WOODARD & CURRAN

<b>Setup</b> 43	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 11:40	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-134	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-135	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b>	<b>Ft</b> <b>Total length</b> 184.6	<b>Ft</b> <b>Length Surveyed</b> 184.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



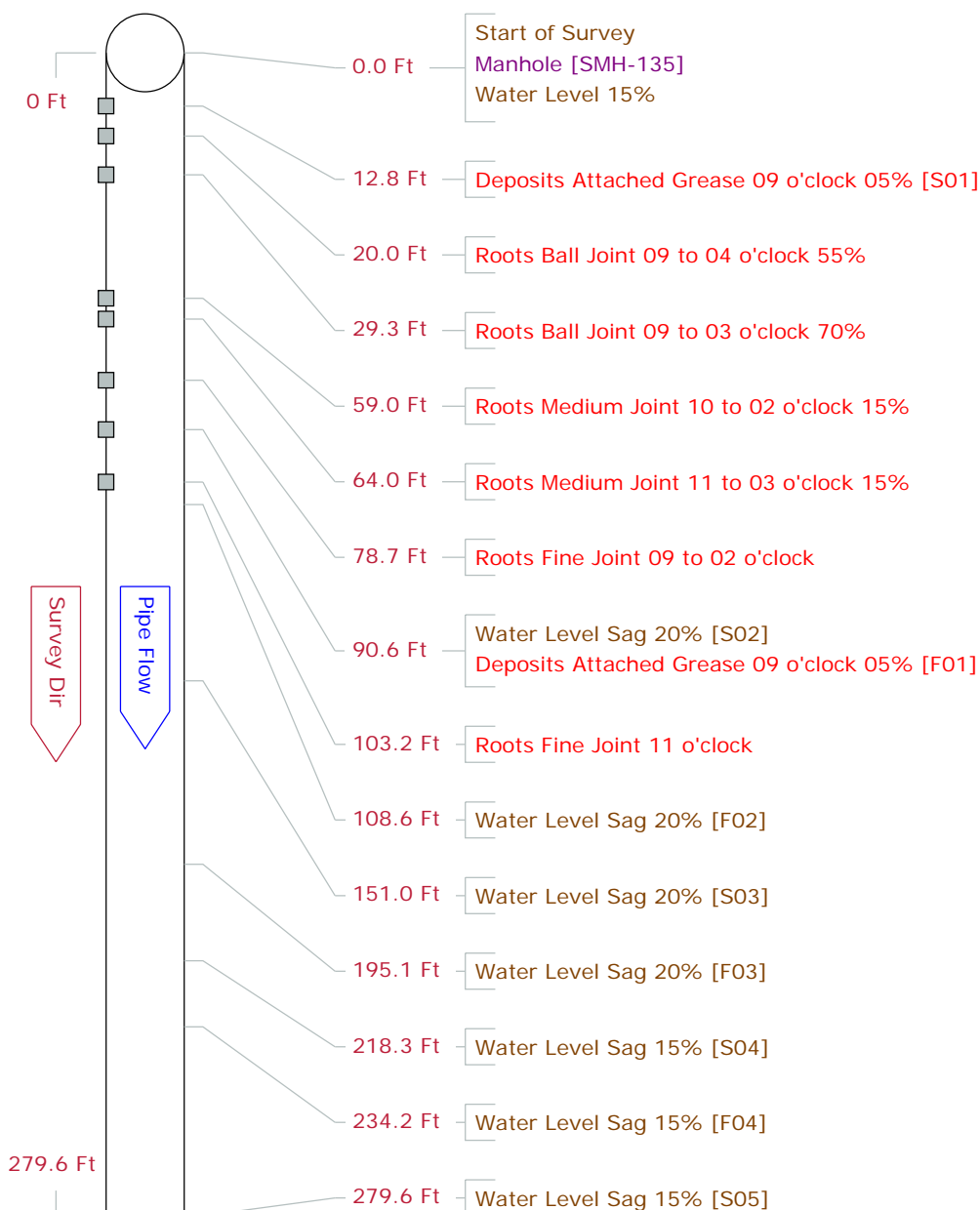
# Pipe Graphic Report of PLR SMH-136 W for WOODARD & CURRAN

<b>Setup</b> 44	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 13:24	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-135	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-136	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 261.6 <b>Ft</b>	<b>Length Surveyed</b> 261.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



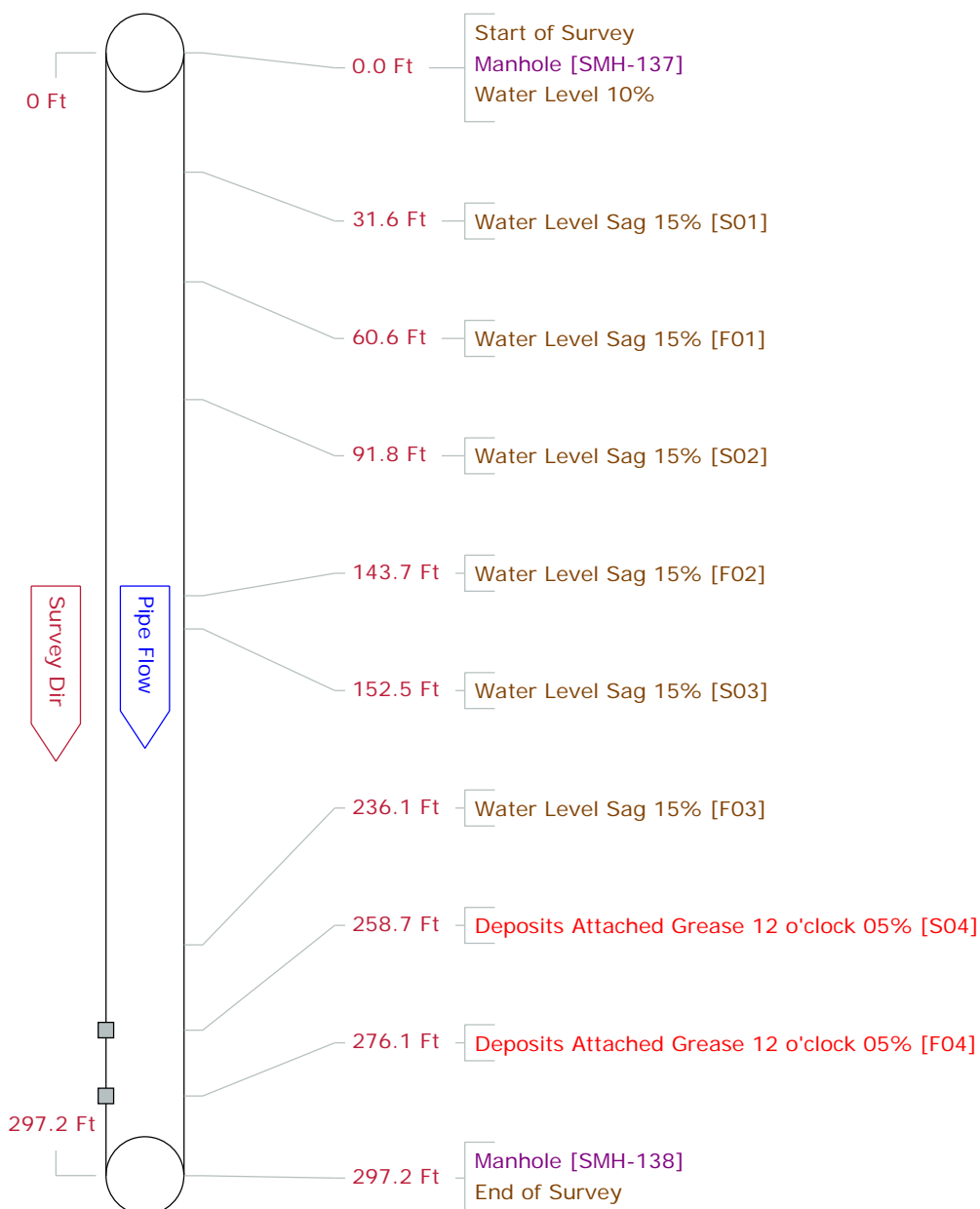
# Pipe Graphic Report of PLR SMH-135 W for WOODARD & CURRAN

<b>Setup</b> 45	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 13:43	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-135	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-137	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 289.5 <b>Ft</b>	<b>Length Surveyed</b> 289.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



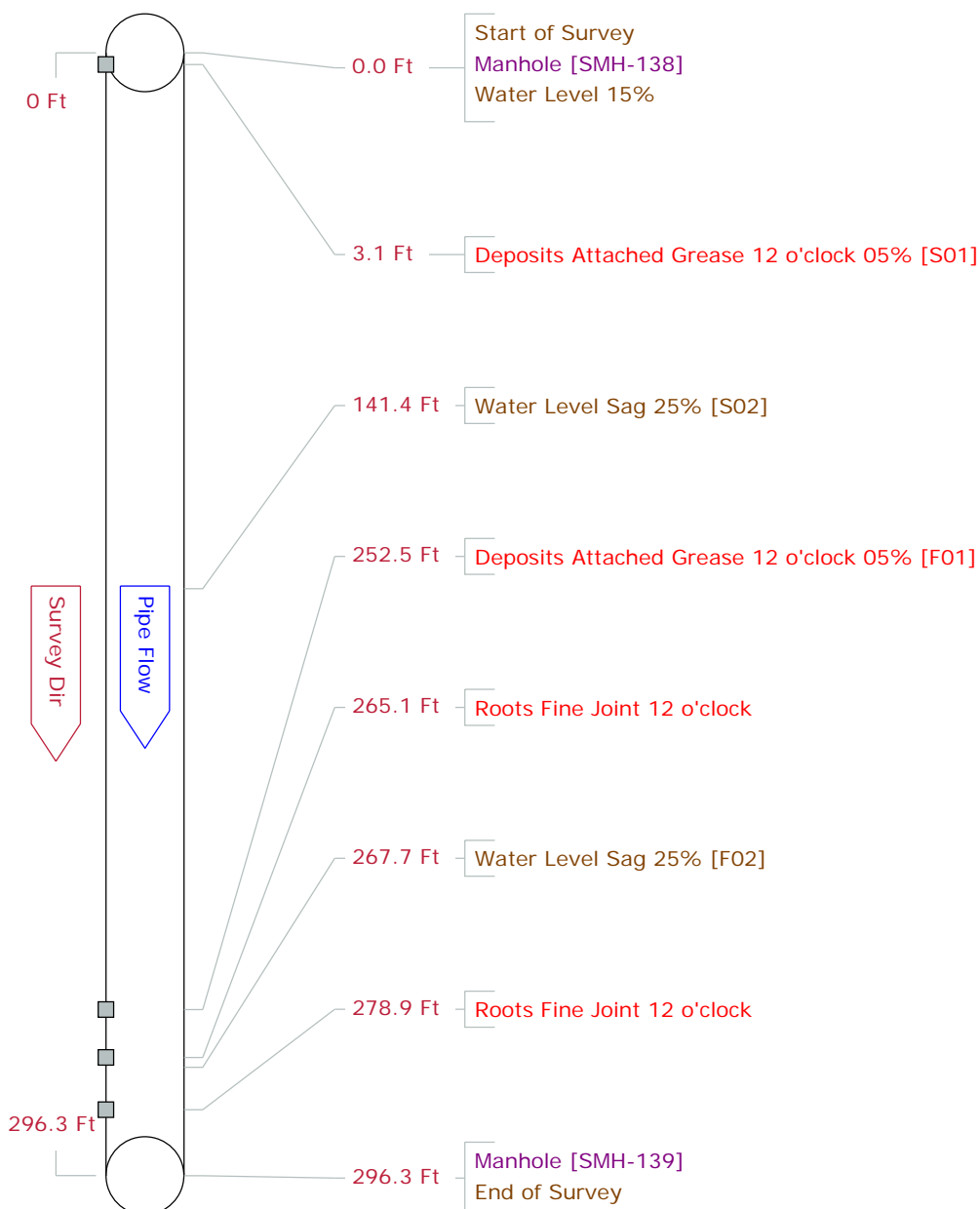
# Pipe Graphic Report of PLR SMH-137 W for WOODARD & CURRAN

<b>Setup</b> 46	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 14:04	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-137	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-138	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b>	<b>Ft</b> <b>Total length</b> 297.2	<b>Ft</b> <b>Length Surveyed</b> 297.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



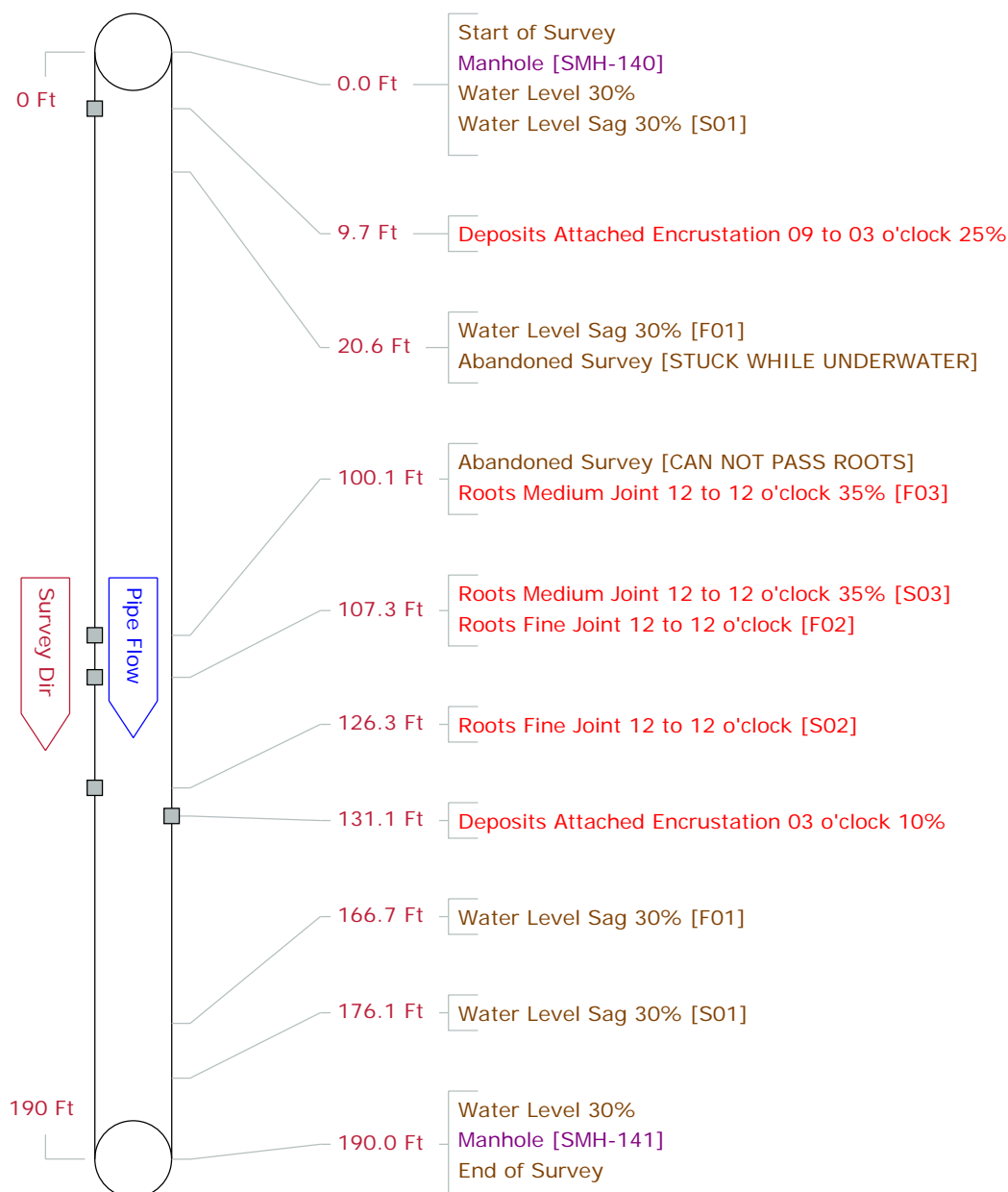
# Pipe Graphic Report of PLR SMH-138 X for WOODARD & CURRAN

<b>Setup</b> 47	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 14:13	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-138	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-139	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 296.3 <b>Ft</b>	<b>Length Surveyed</b> 296.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



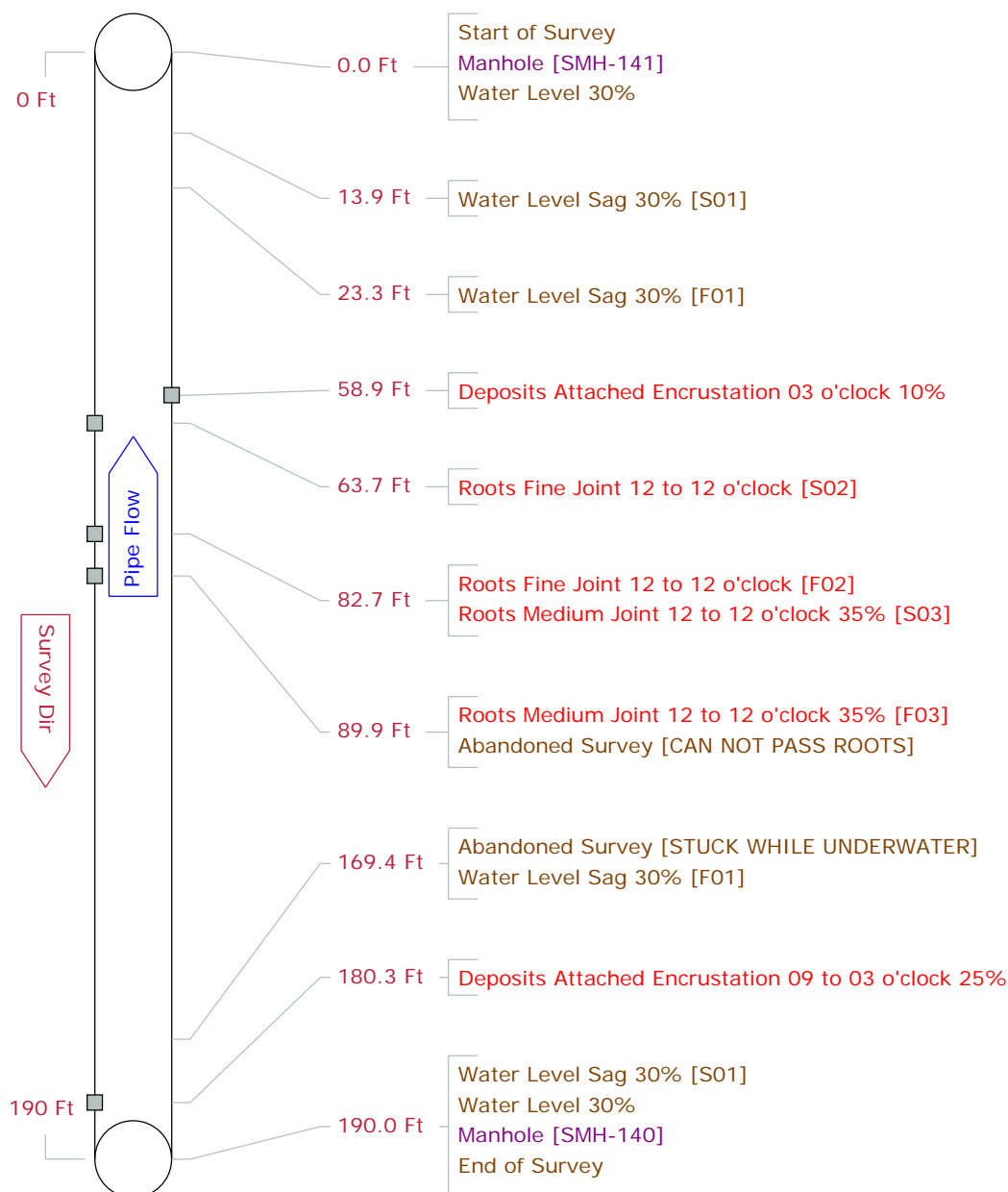
# Pipe Graphic Report of PLR SMH-140 X for WOODARD & CURRAN

<b>Setup</b> 48/49	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 14:57	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-140	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-141	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-01
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 190.0 <b>Ft</b>	<b>Length Surveyed</b> 20.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



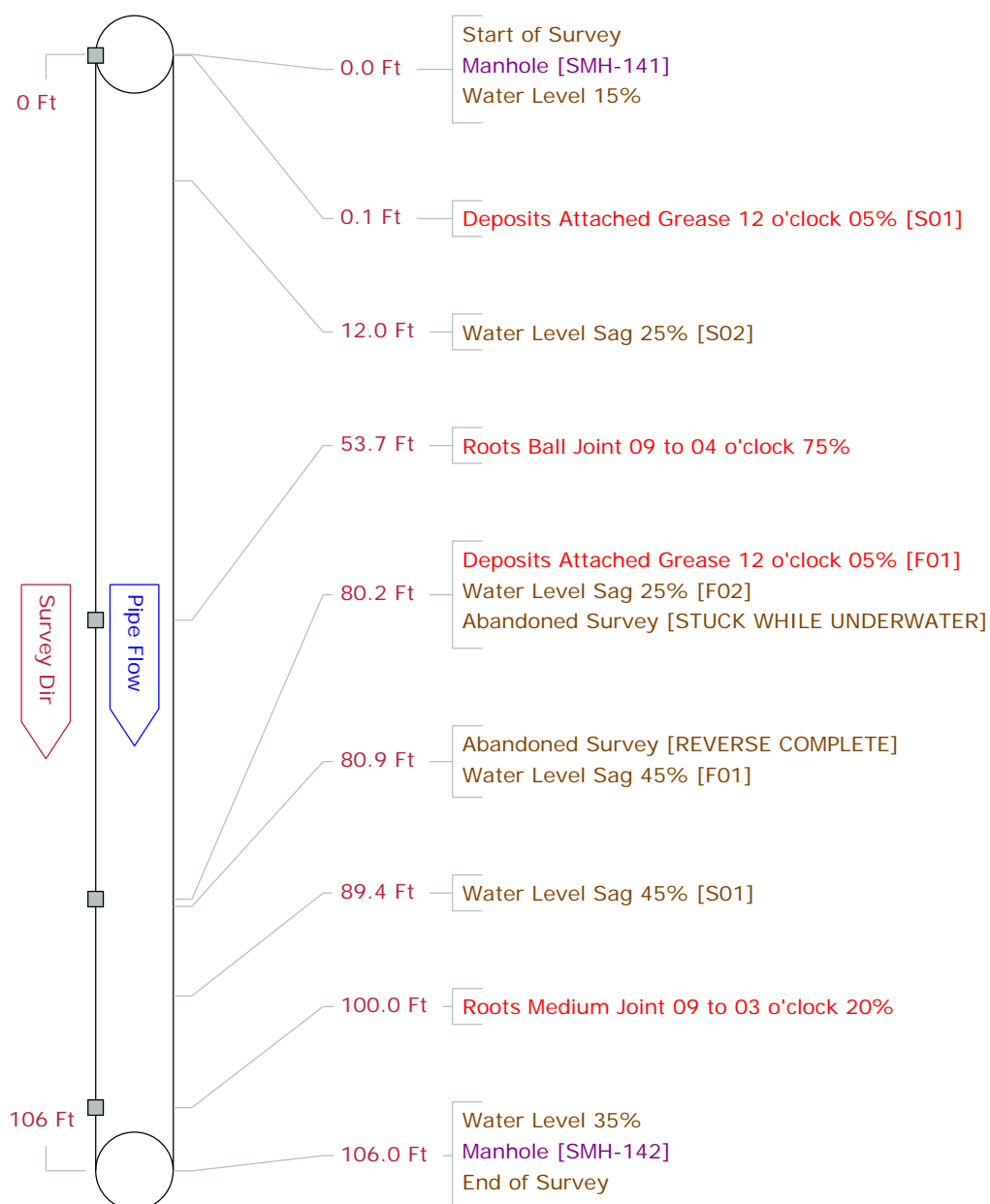
# Pipe Graphic Report of PLR SMH-140 X for WOODARD & CURRAN

<b>Setup</b> 49/48	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 2:57	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-141	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-140	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b>	<b>Ft</b> <b>Total length</b> 190.0	<b>Ft</b> <b>Length Surveyed</b> 89.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:48		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR SMH-141 X for WOODARD & CURRAN

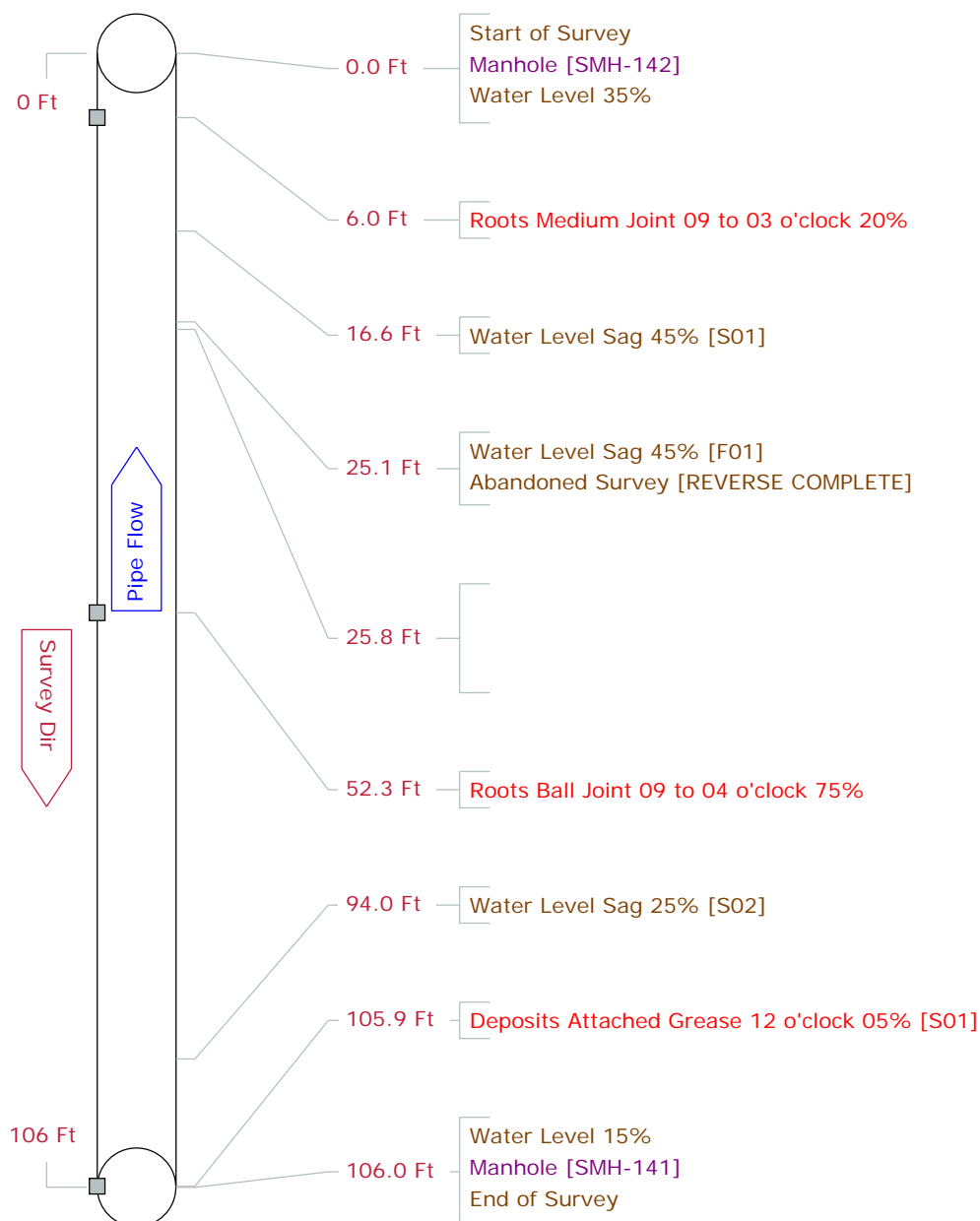
<b>Setup</b> 50/51	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 3:33	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-141	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-142	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b>	<b>Ft</b> <b>Total length</b> 106.0	<b>Ft</b> <b>Length Surveyed</b> 80.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>





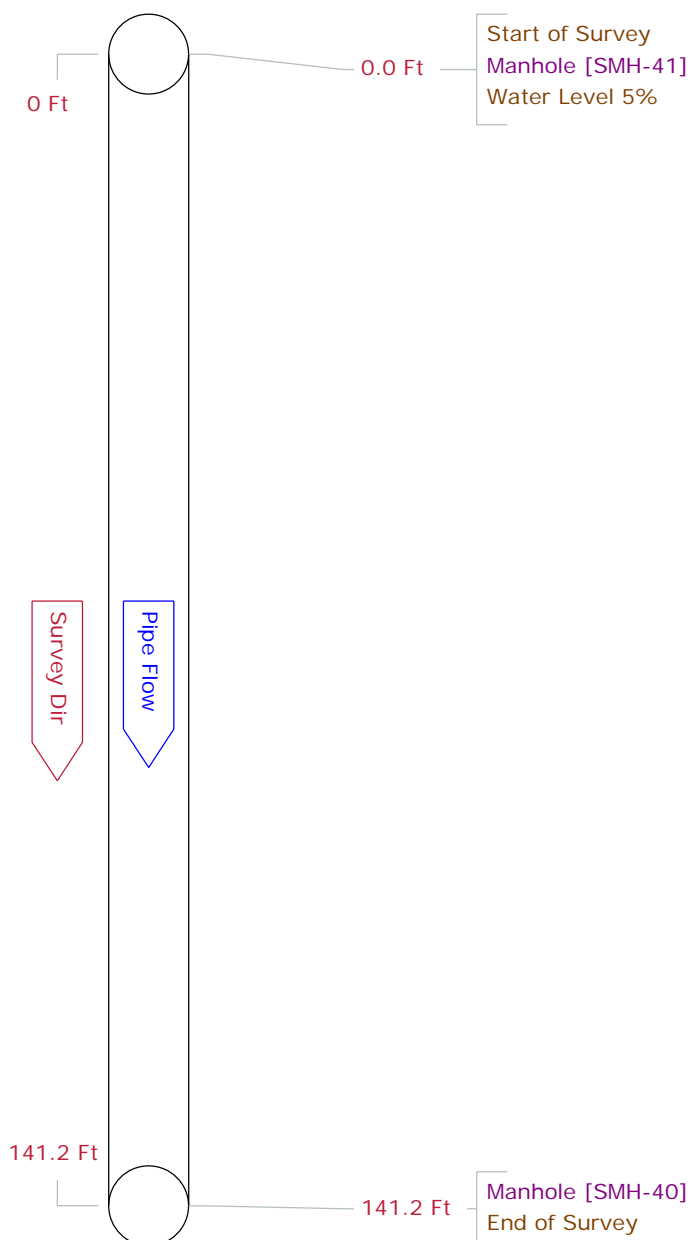
# Pipe Graphic Report of PLR SMH-141 X for WOODARD & CURRAN

<b>Setup</b> 51/50	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/25	<b>Time</b> 4:00	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-142	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-141	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b>	<b>Ft</b> <b>Total length</b> 106.0	<b>Ft</b> <b>Length Surveyed</b> 25.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:50		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



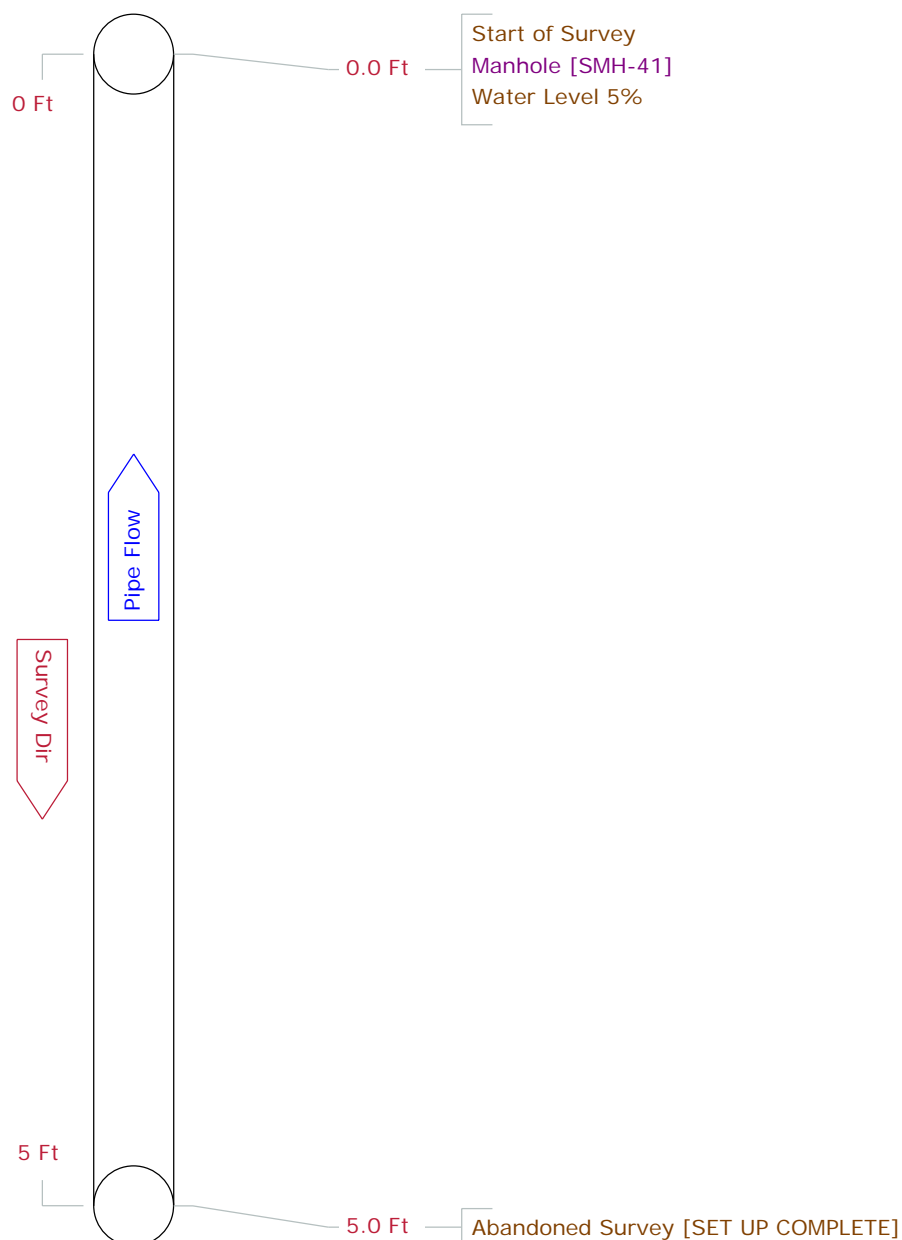
# Pipe Graphic Report of PLR SMH-41 X for WOODARD & CURRAN

<b>Setup</b> 52	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 12:51	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-41	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-40	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 141.2 <b>Ft</b>	<b>Length Surveyed</b> 141.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



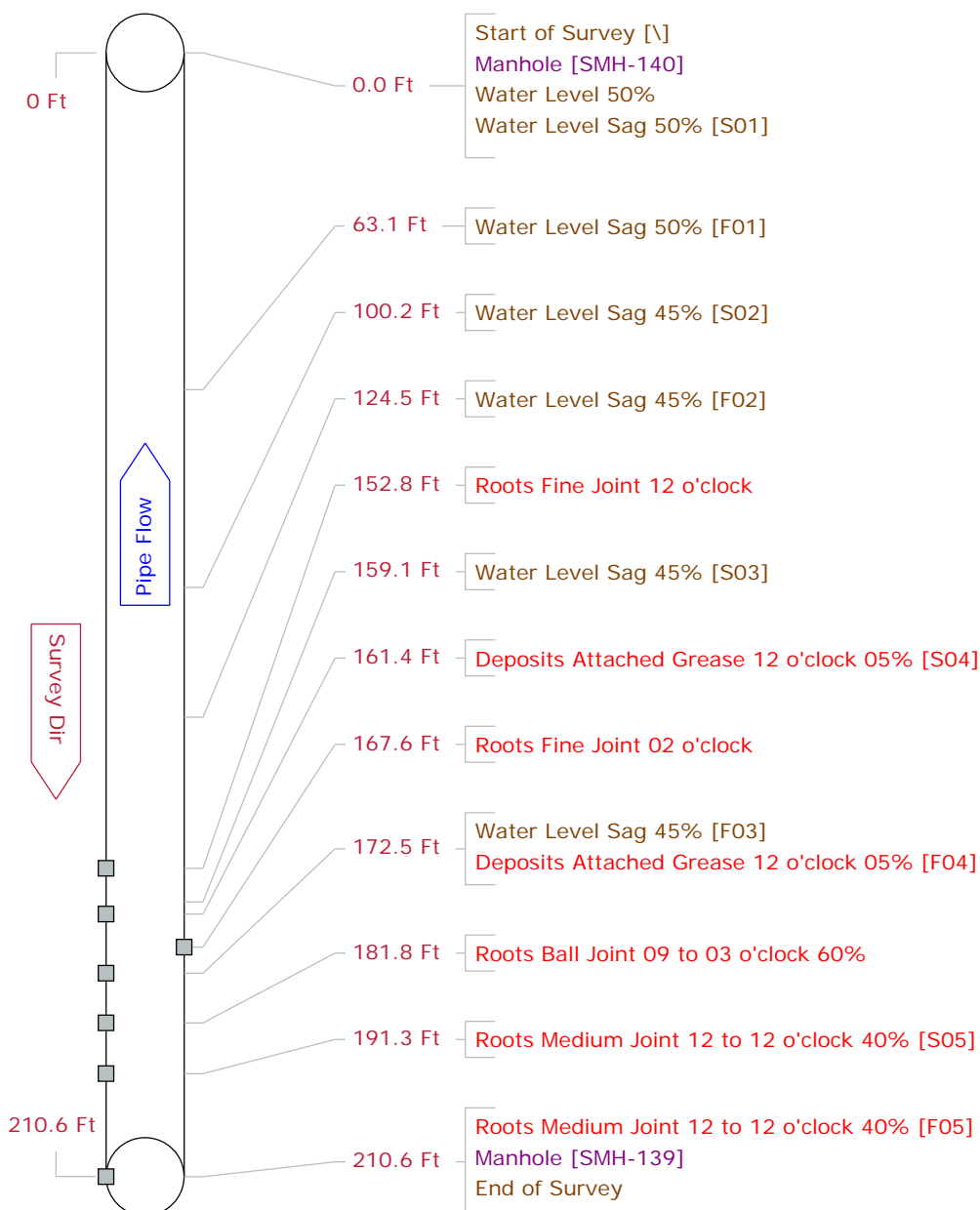
# Pipe Graphic Report of PLR STUB S for WOODARD & CURRAN

<b>Setup</b> 53	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 1:00	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-41	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> STUB	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 8 <b>Width</b> ins	<b>Preclean</b> J	<b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 5.0 <b>Ft</b>	<b>Length Surveyed</b> 05.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



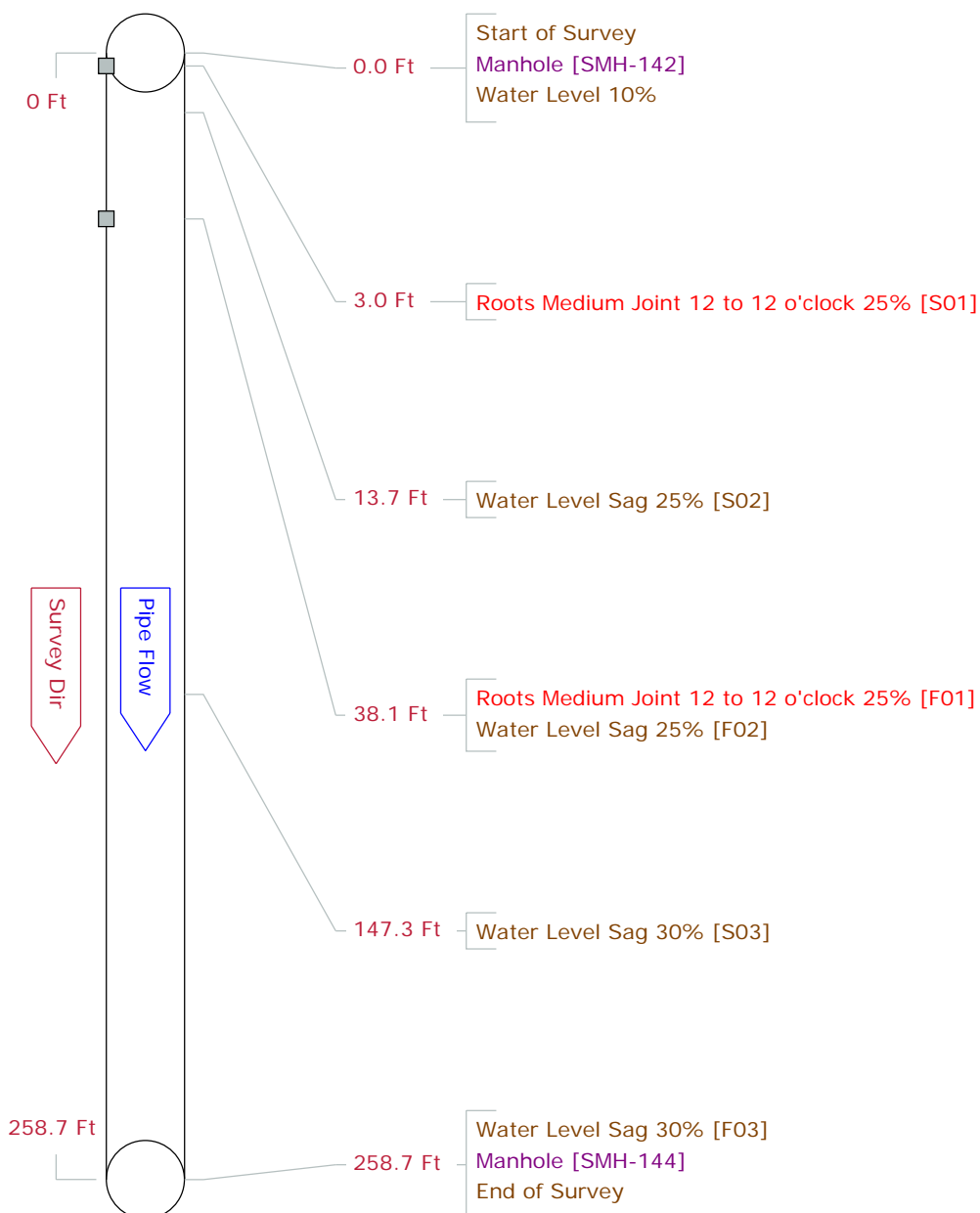
# Pipe Graphic Report of PLR SMH-139 S for WOODARD & CURRAN

<b>Setup</b> 54	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 13:17	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-140	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-139	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 210.6 <b>Ft</b>	<b>Length Surveyed</b> 210.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> CAN NOT LOCATE SMH-139		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



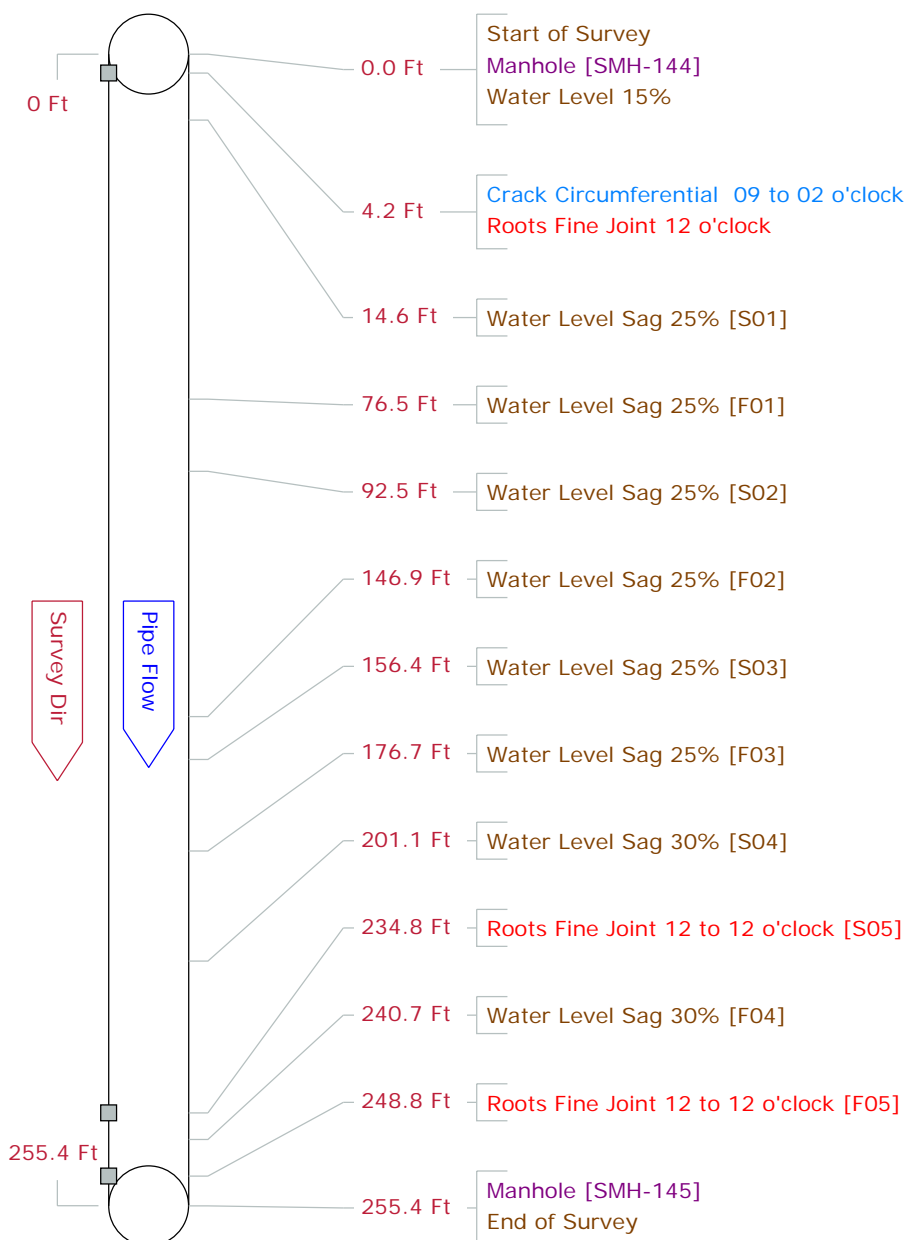
# Pipe Graphic Report of PLR SMH-142 S for WOODARD & CURRAN

<b>Setup</b> 55	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 13:55	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-142	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-144	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 258.7 <b>Ft</b>	<b>Length Surveyed</b> 258.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>
		<b>Constructional</b>	



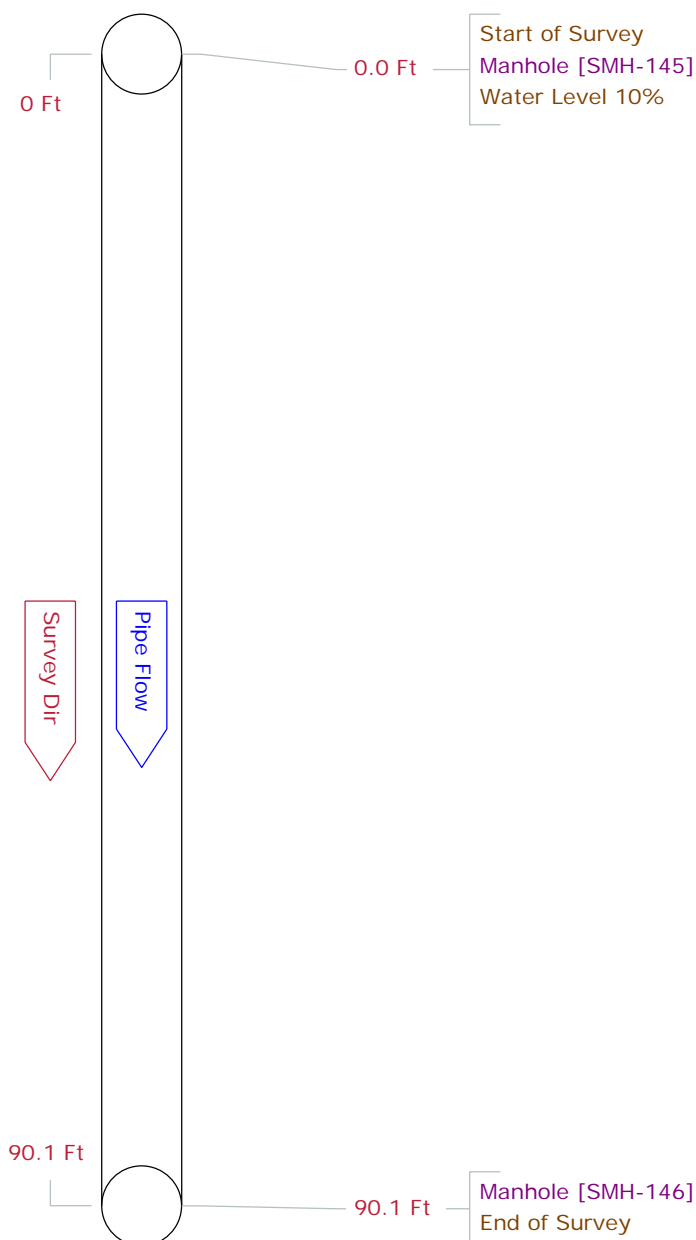
# Pipe Graphic Report of PLR SMH-144 S for WOODARD & CURRAN

<b>Setup</b> 56	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 14:07	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-144	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-145	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 255.4 <b>Ft</b>	<b>Length Surveyed</b> 255.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



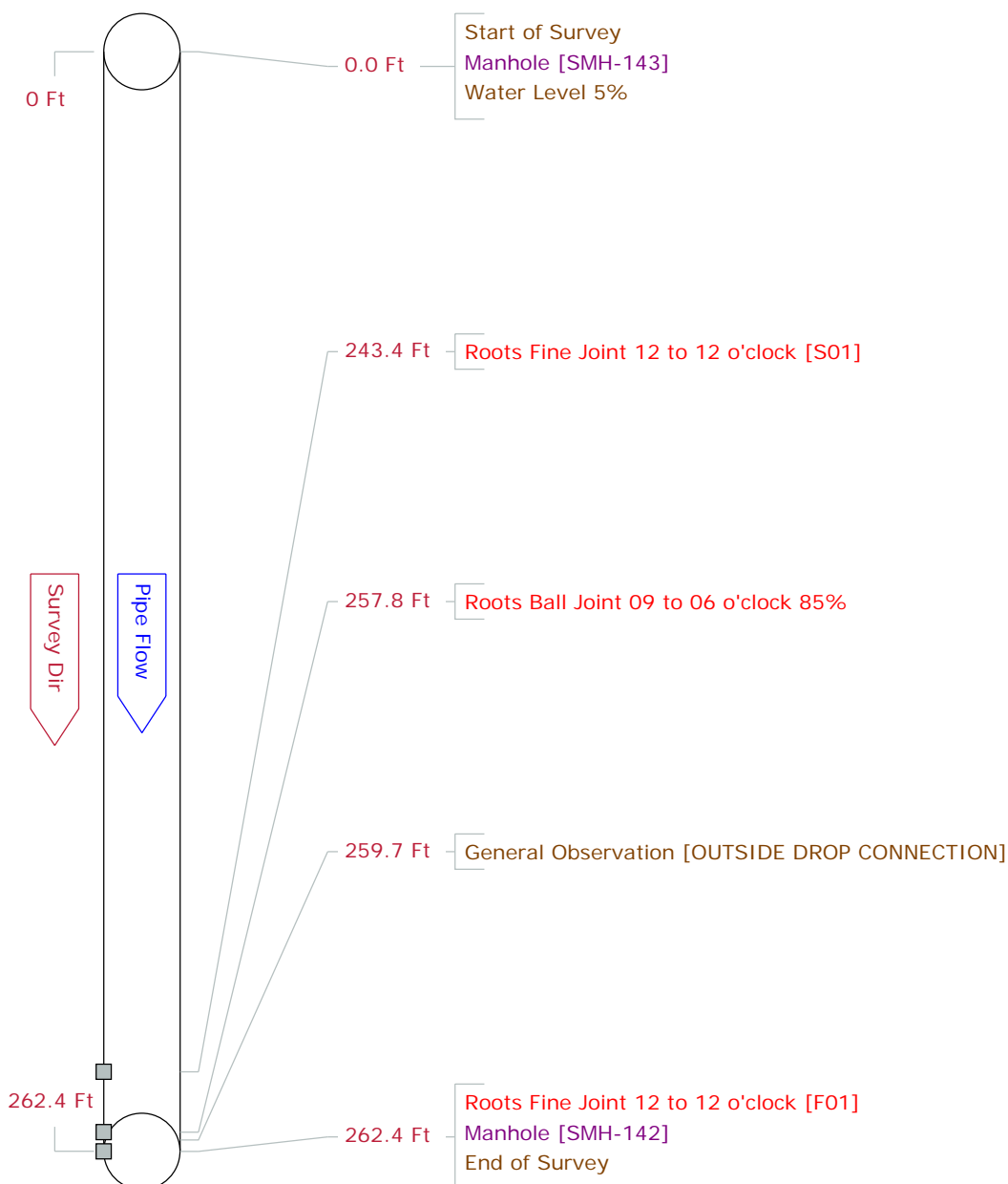
# Pipe Graphic Report of PLR SMH-145 S for WOODARD & CURRAN

<b>Setup</b> 57	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 14:35	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-145	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-146	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Cast Iron	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 90.1 <b>Ft</b>	<b>Length Surveyed</b> 90.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR SMH-143 S for WOODARD & CURRAN

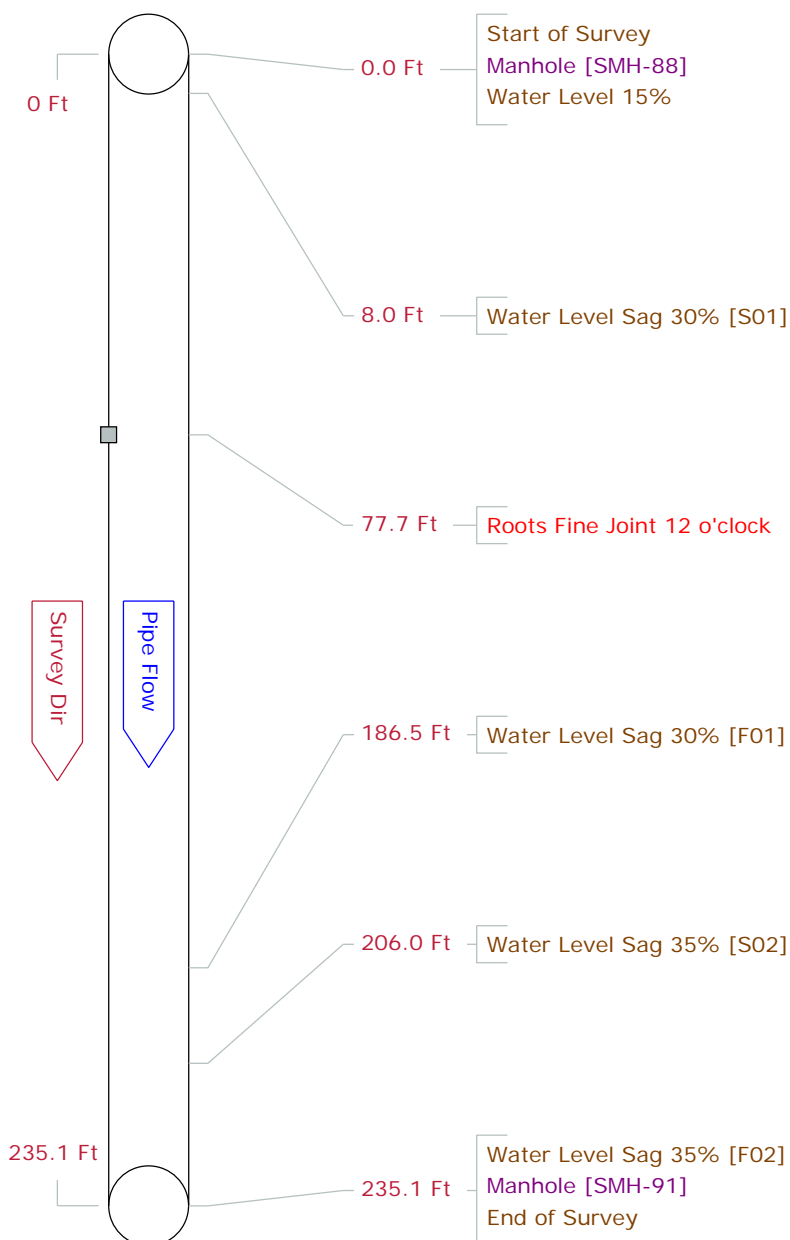
<b>Setup</b> 58	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 14:47	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-143	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-142	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 262.4 <b>Ft</b>	<b>Length Surveyed</b> 262.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>





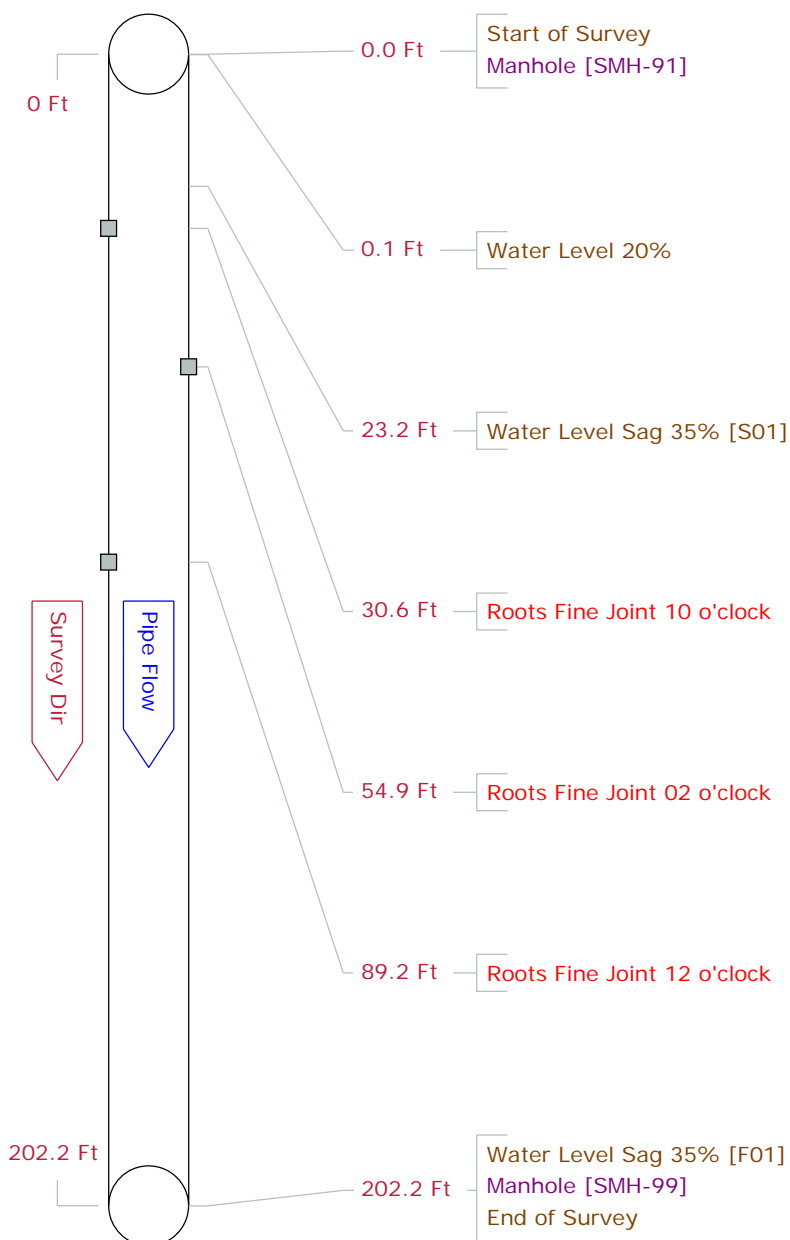
# Pipe Graphic Report of PLR SMH-88 S for WOODARD & CURRAN

<b>Setup</b> 59	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 15:09	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-88	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-91	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 235.1 <b>Ft</b>	<b>Length Surveyed</b> 235.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



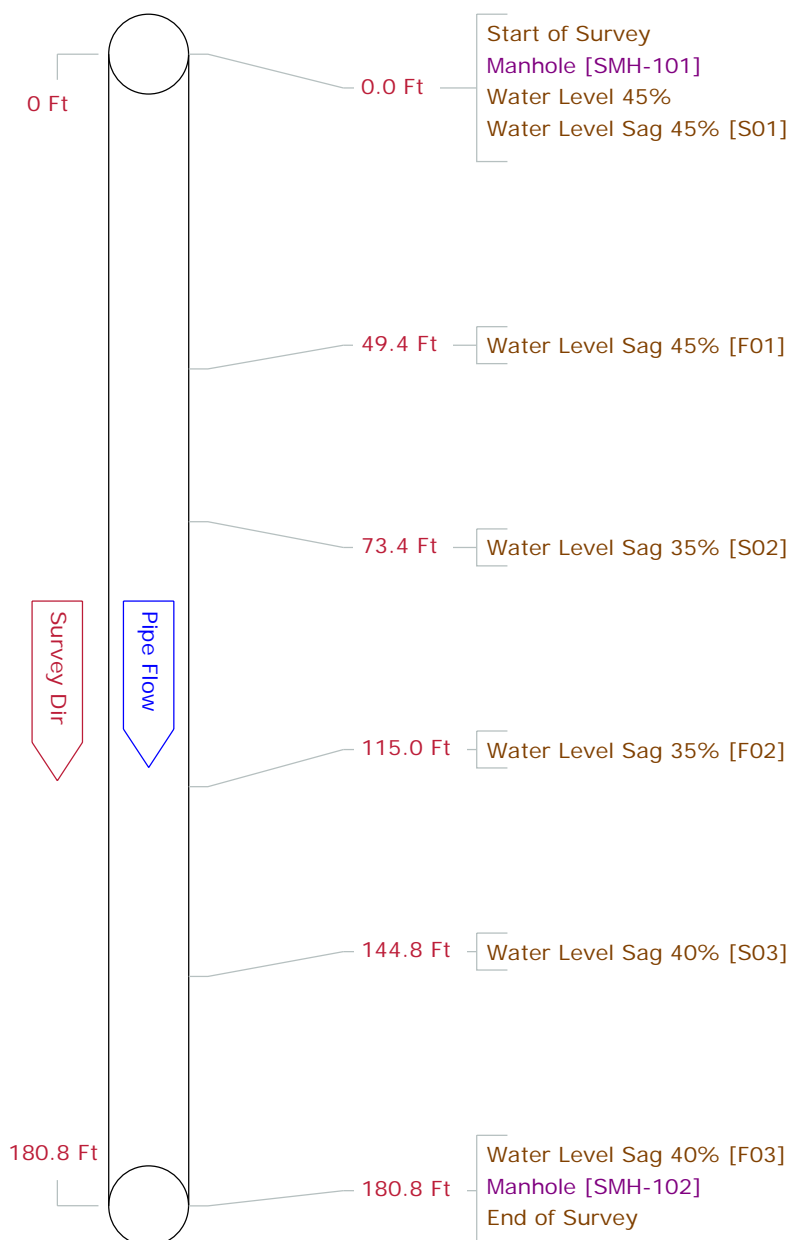
# Pipe Graphic Report of PLR SMH-91 S for WOODARD & CURRAN

<b>Setup</b> 60	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 15:43	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-91	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-99	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 202.2 <b>Ft</b>	<b>Length Surveyed</b> 202.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



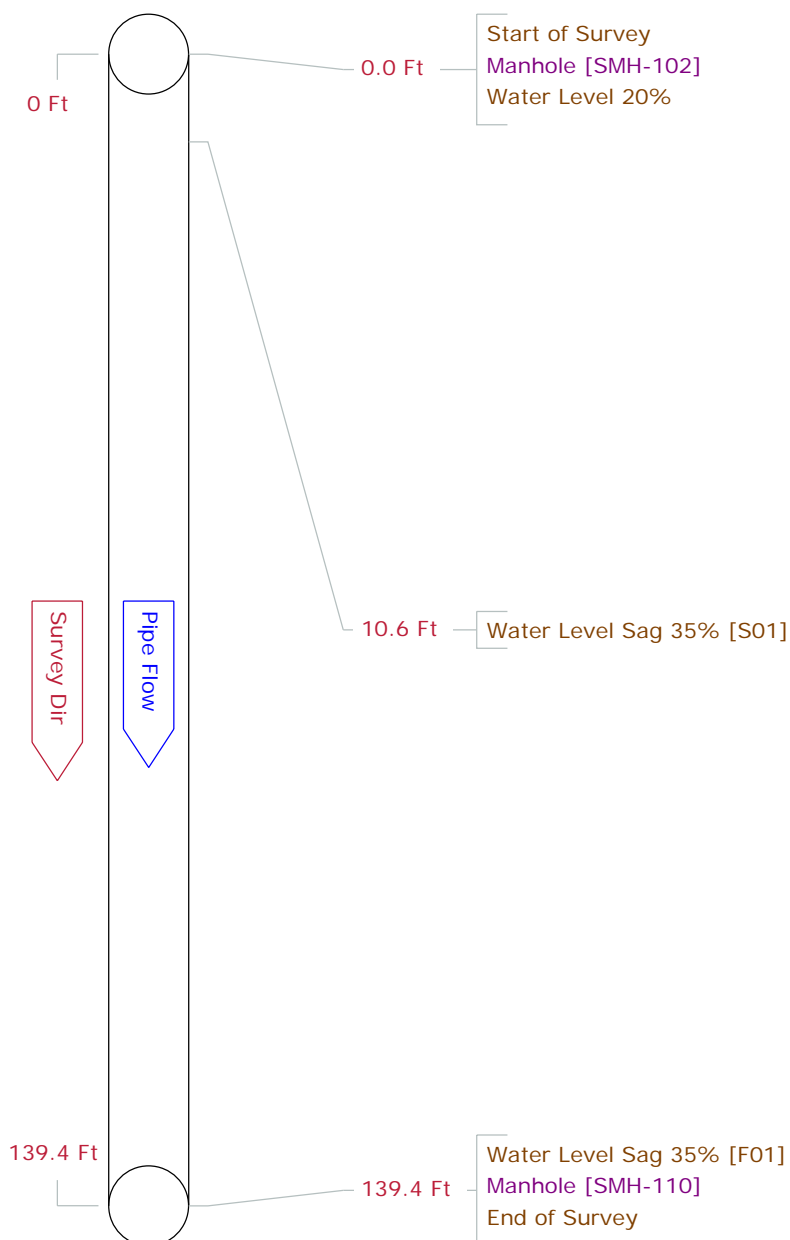
# Pipe Graphic Report of PLR SMH-101 S for WOODARD & CURRAN

<b>Setup</b> 61	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 16:07	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-101	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-102	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 180.8 <b>Ft</b>	<b>Length Surveyed</b> 180.80
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



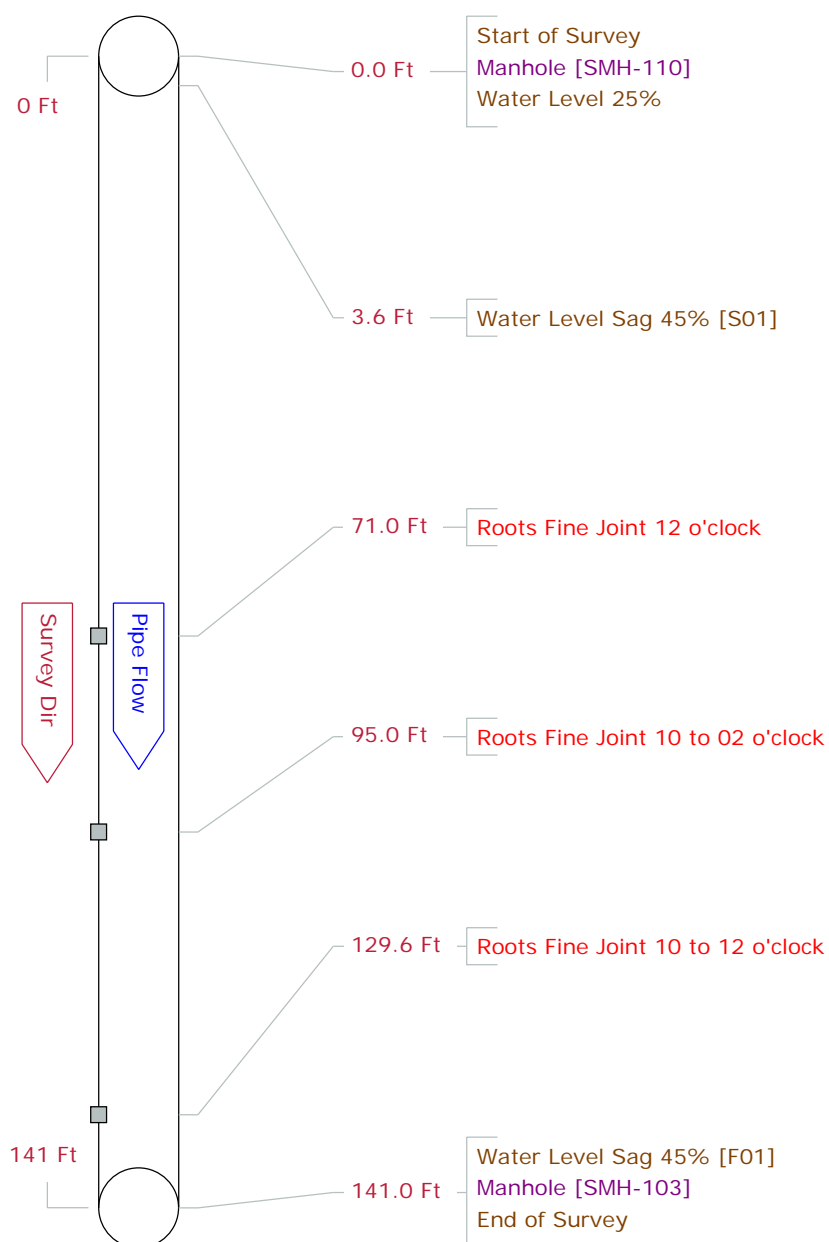
# Pipe Graphic Report of PLR SMH-102 S for WOODARD & CURRAN

<b>Setup</b> 62	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 16:21	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-102	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-110	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 139.4 <b>Ft</b>	<b>Length Surveyed</b> 139.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



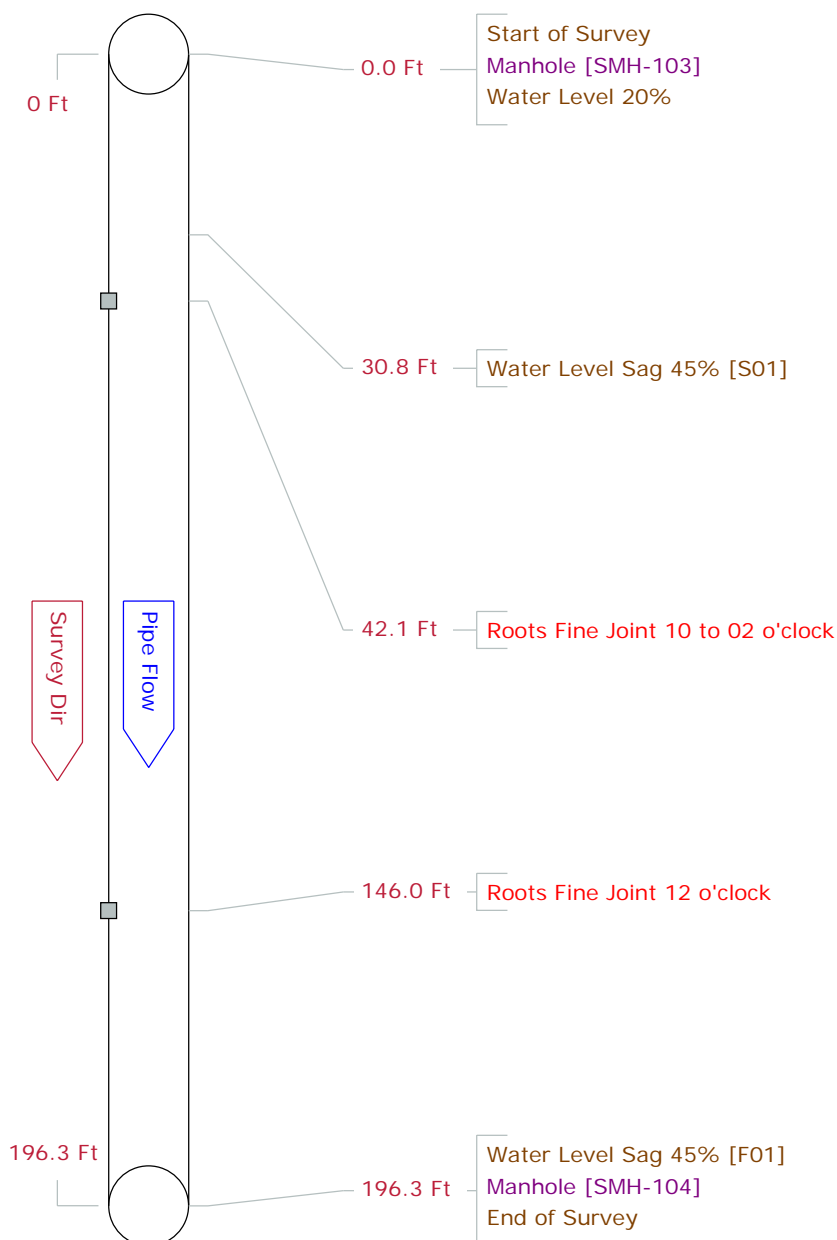
# Pipe Graphic Report of PLR SMH-110 S for WOODARD & CURRAN

<b>Setup</b> 63	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 16:30	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-110	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-103	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b>	<b>Ft</b>	<b>Total length</b> 141.0 <b>Ft</b> <b>Length Surveyed</b> 141.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



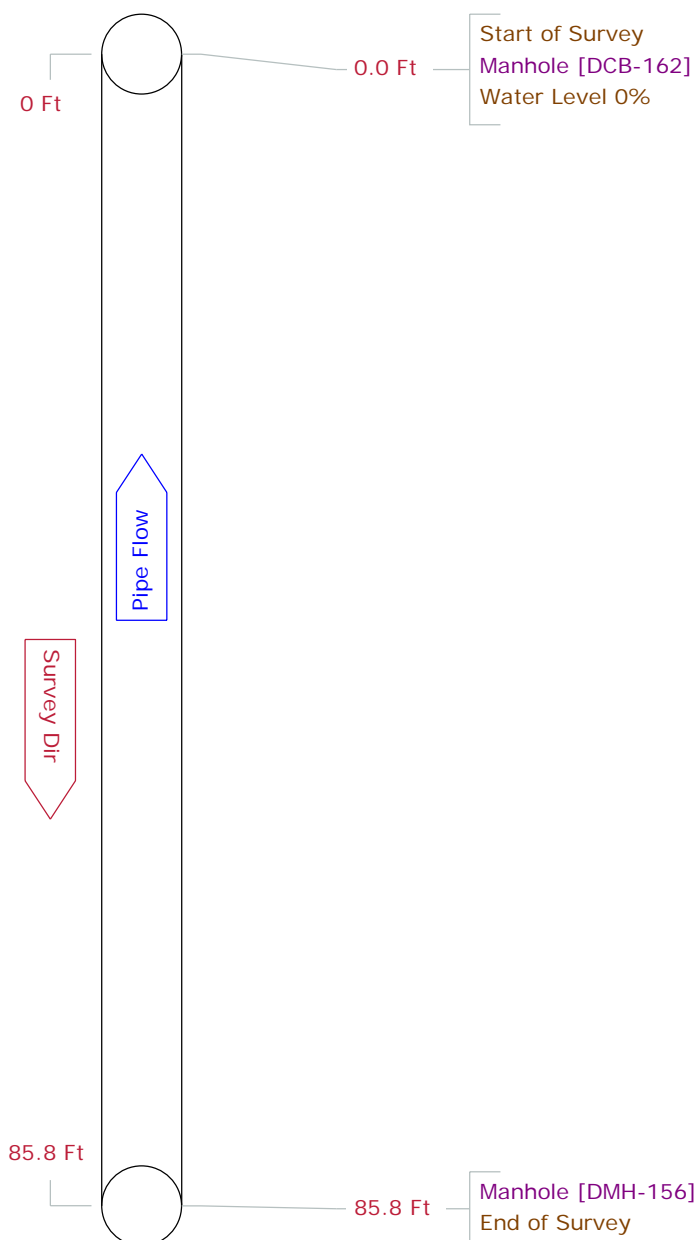
# Pipe Graphic Report of PLR SMH-103 S for WOODARD & CURRAN

<b>Setup</b> 64	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> ALBANY UNIVERSITY
<b>Drainage</b> CAMPUS GRC	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/07/31	<b>Time</b> 16:39	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> CAMPUS GROUNDS	<b>Further location details</b>		
<b>Start</b> SMH-103	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> SMH-104	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Sanitary	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-02
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> J <b>Year Cleaned</b>
<b>Material</b> Vitrified Clay Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 196.3 <b>Ft</b>	<b>Length Surveyed</b> 196.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Light Highway		<b>Miscellaneous</b>	<b>Hydraulic</b>



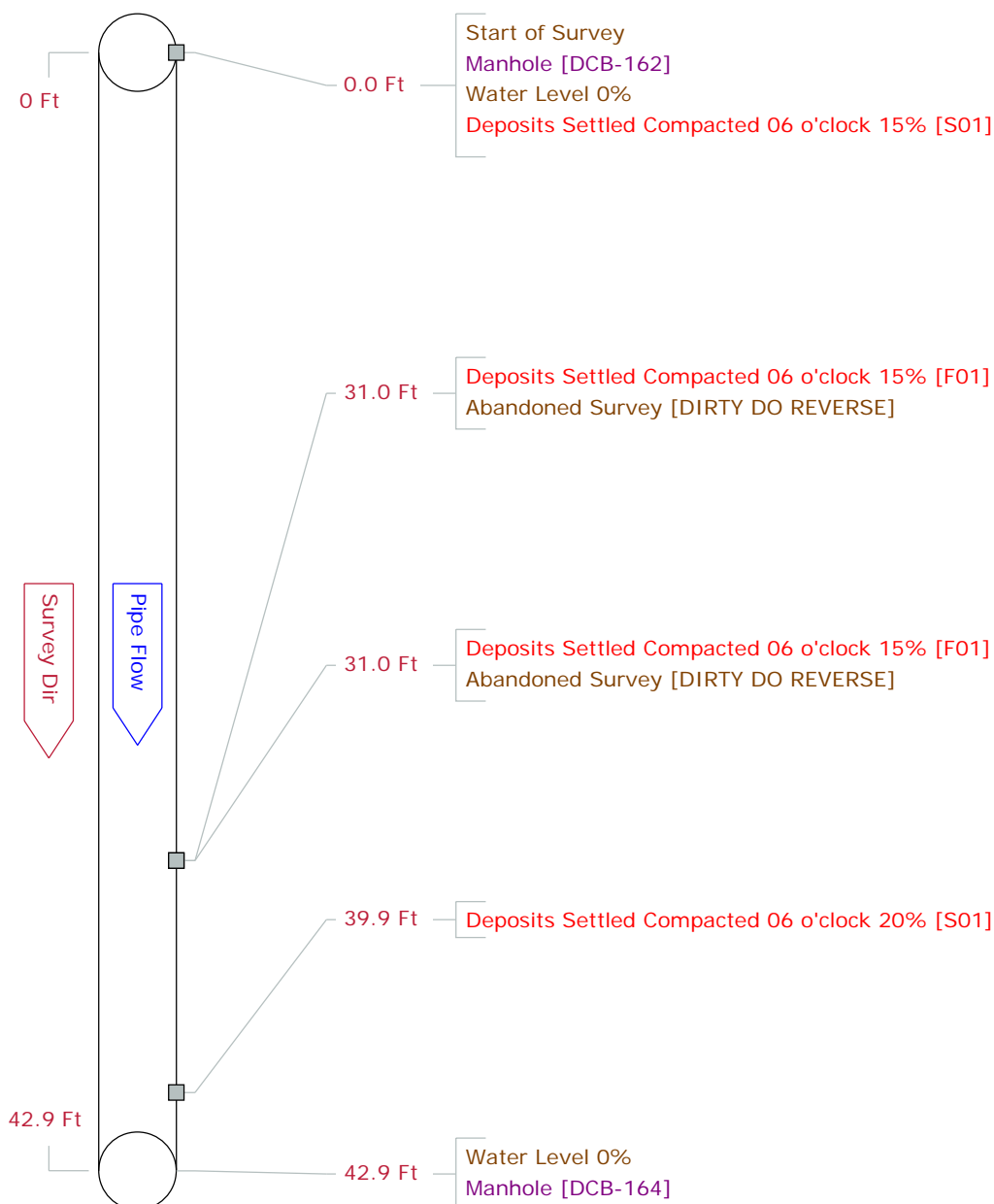
# Pipe Graphic Report of PLR DMH-156 X for WOODARD & CURRAN

<b>Setup</b> 1	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 8:45	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-162	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-156	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15 <b>Width</b> ins	<b>Preclean</b> N	<b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 85.8 <b>Ft</b>	<b>Length Surveyed</b> 85.80
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-162 X for WOODARD & CURRAN

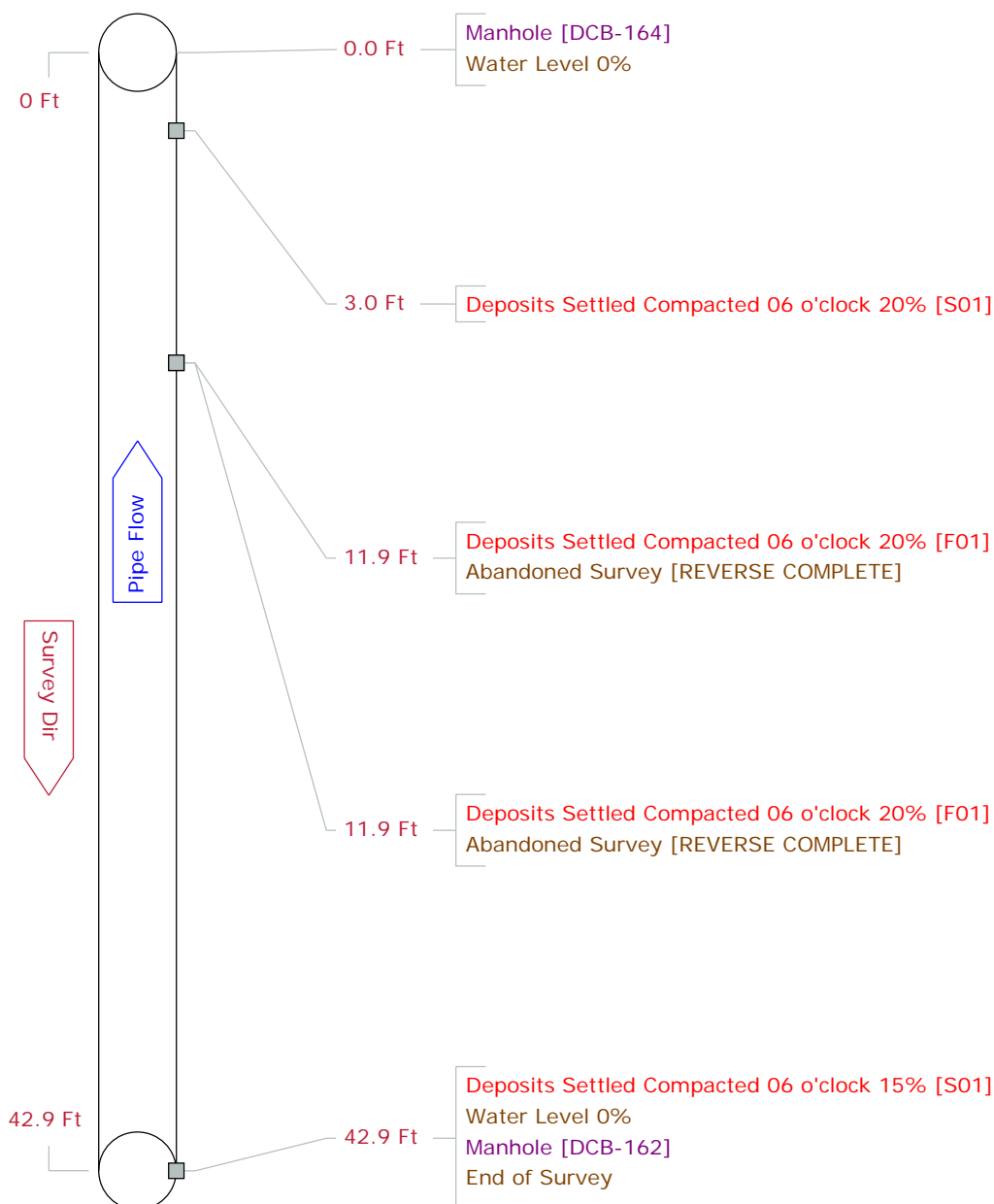
<b>Setup</b> 2/3	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 9:08	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-162	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-164	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 42.9 <b>Ft</b>	<b>Length Surveyed</b> 31.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





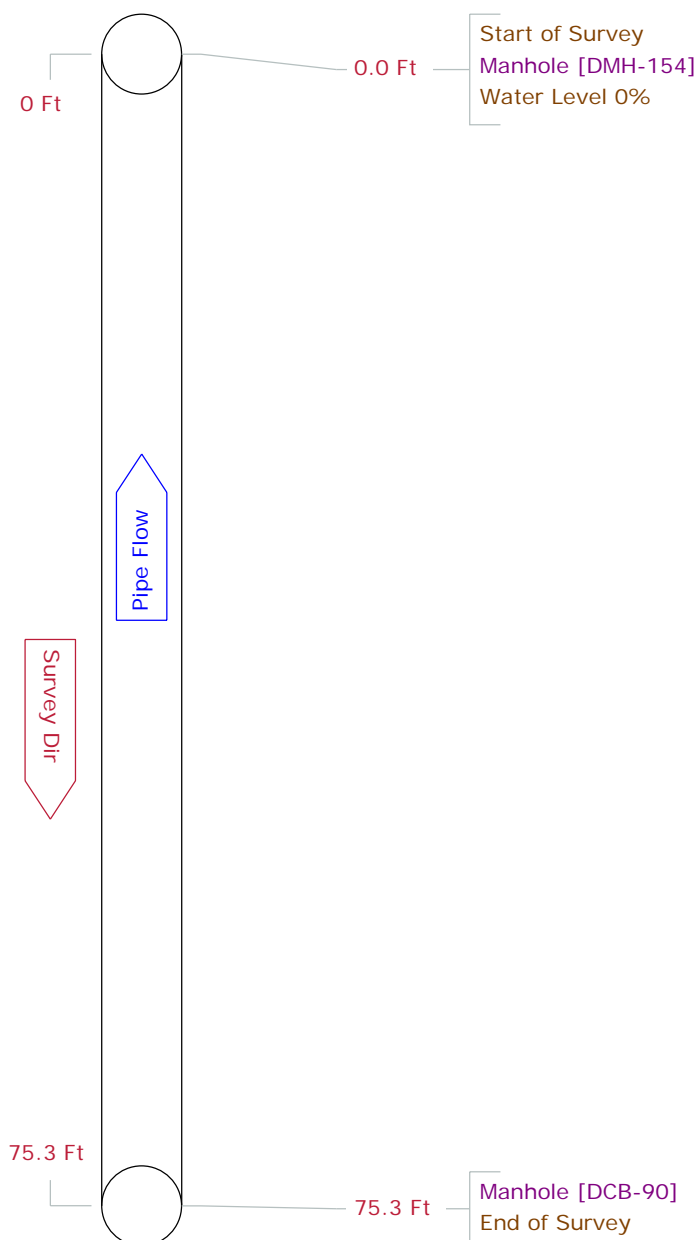
# Pipe Graphic Report of PLR DCB-162 X for WOODARD & CURRAN

<b>Setup</b> 3/2	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 9:39	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-164	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-162	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 42.9 <b>Ft</b>	<b>Length Surveyed</b> 11.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:2		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



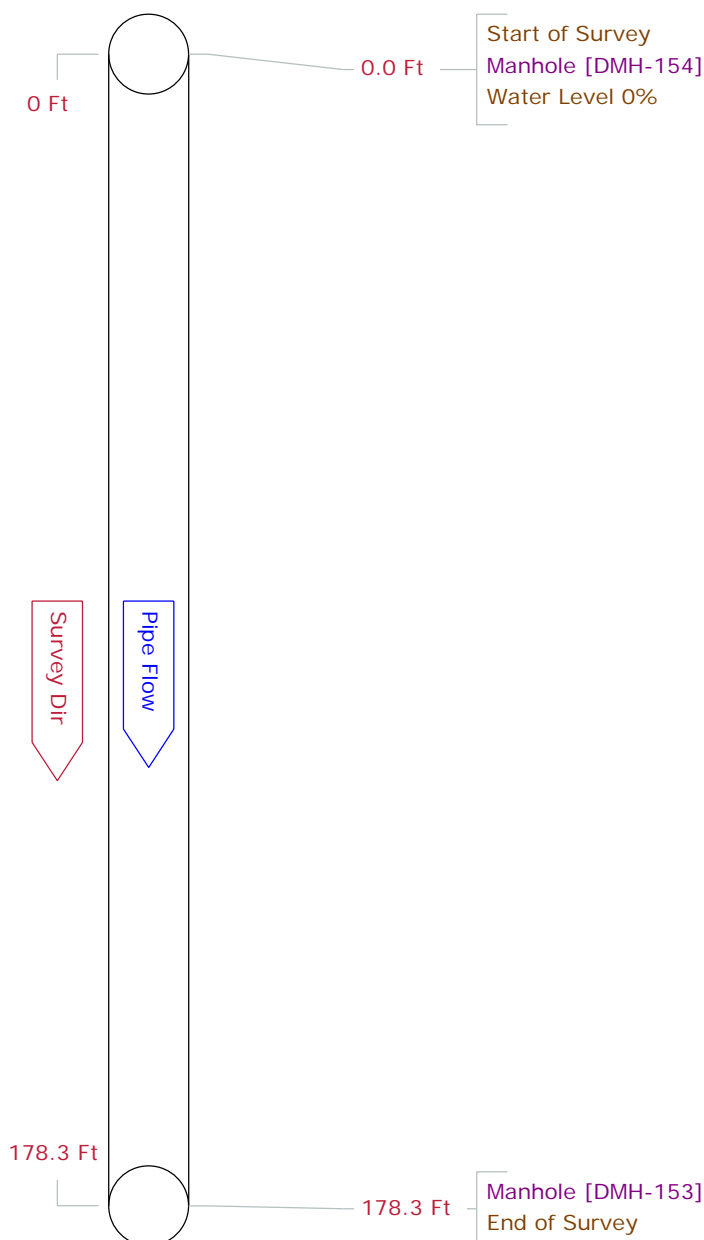
# Pipe Graphic Report of PLR DCB-90 X for WOODARD & CURRAN

<b>Setup</b> 4	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 10:10	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-154	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-90	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15 <b>Width</b> ins	<b>Preclean</b> N	<b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 75.3 <b>Ft</b>	<b>Length Surveyed</b> 75.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



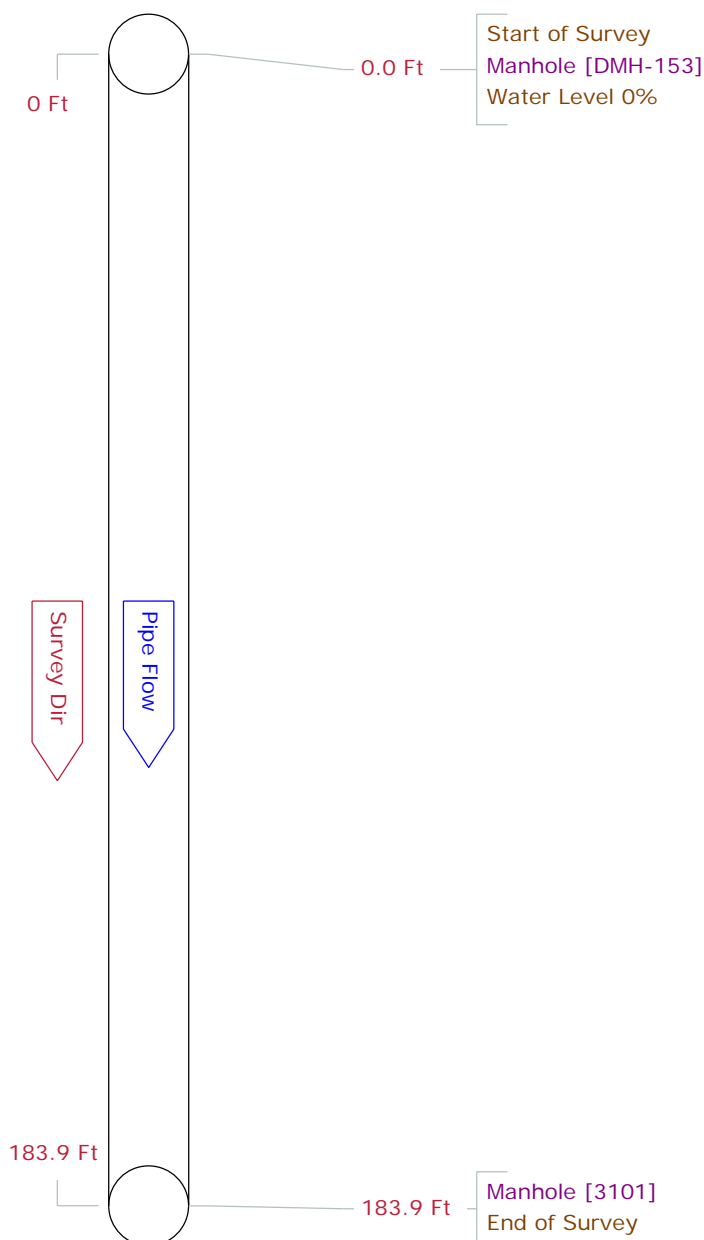
# Pipe Graphic Report of PLR DMH-154 X for WOODARD & CURRAN

<b>Setup</b> 5	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 10:26	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-154	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-153	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 21	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 178.3 <b>Ft</b>	<b>Length Surveyed</b> 178.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



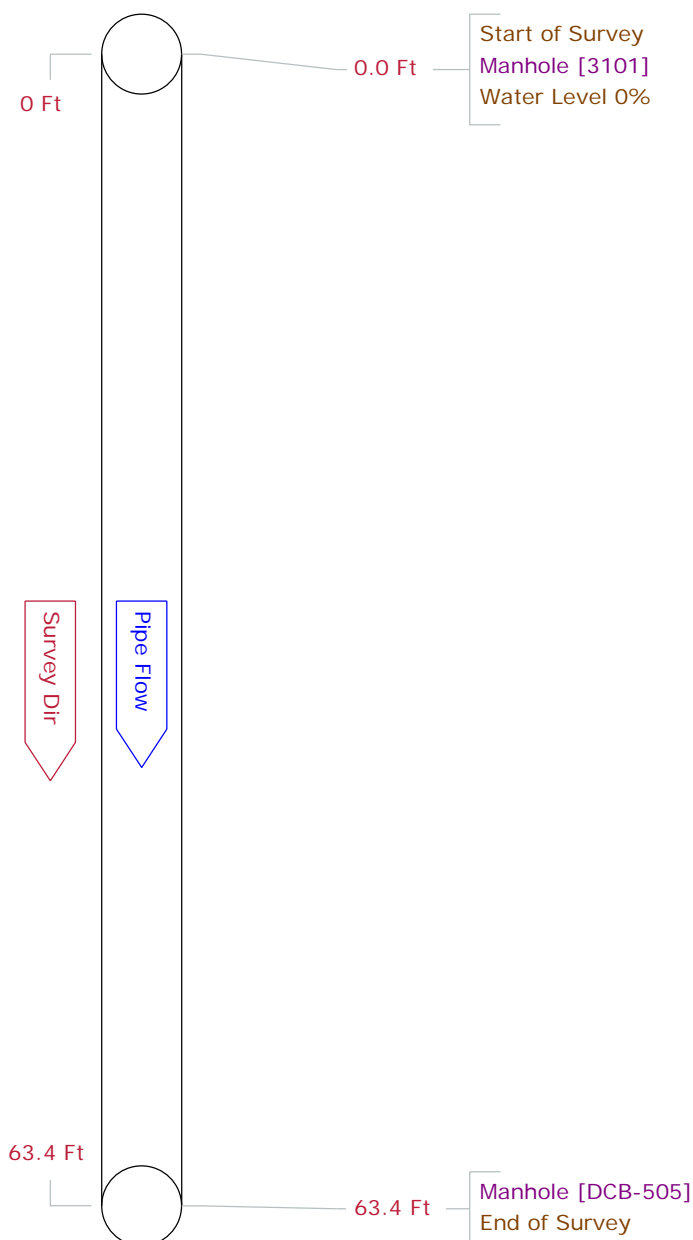
# Pipe Graphic Report of PLR DMH-153 X for WOODARD & CURRAN

<b>Setup</b> 6	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 10:42	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-153	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> 3101	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 21	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 183.9 <b>Ft</b>	<b>Length Surveyed</b> 183.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



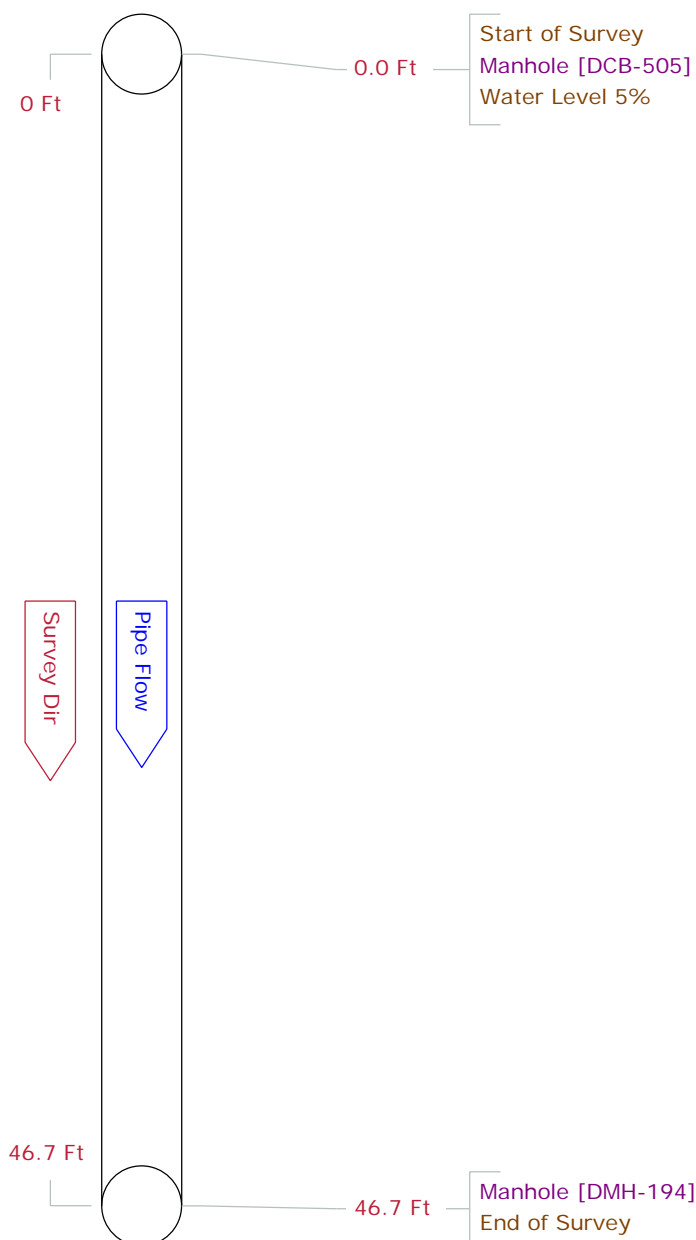
# Pipe Graphic Report of PLR 3101 X for WOODARD & CURRAN

<b>Setup</b> 7	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 10:49	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> 3101	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-505	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 21	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 63.4	<b>Ft</b> <b>Length Surveyed</b> 63.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



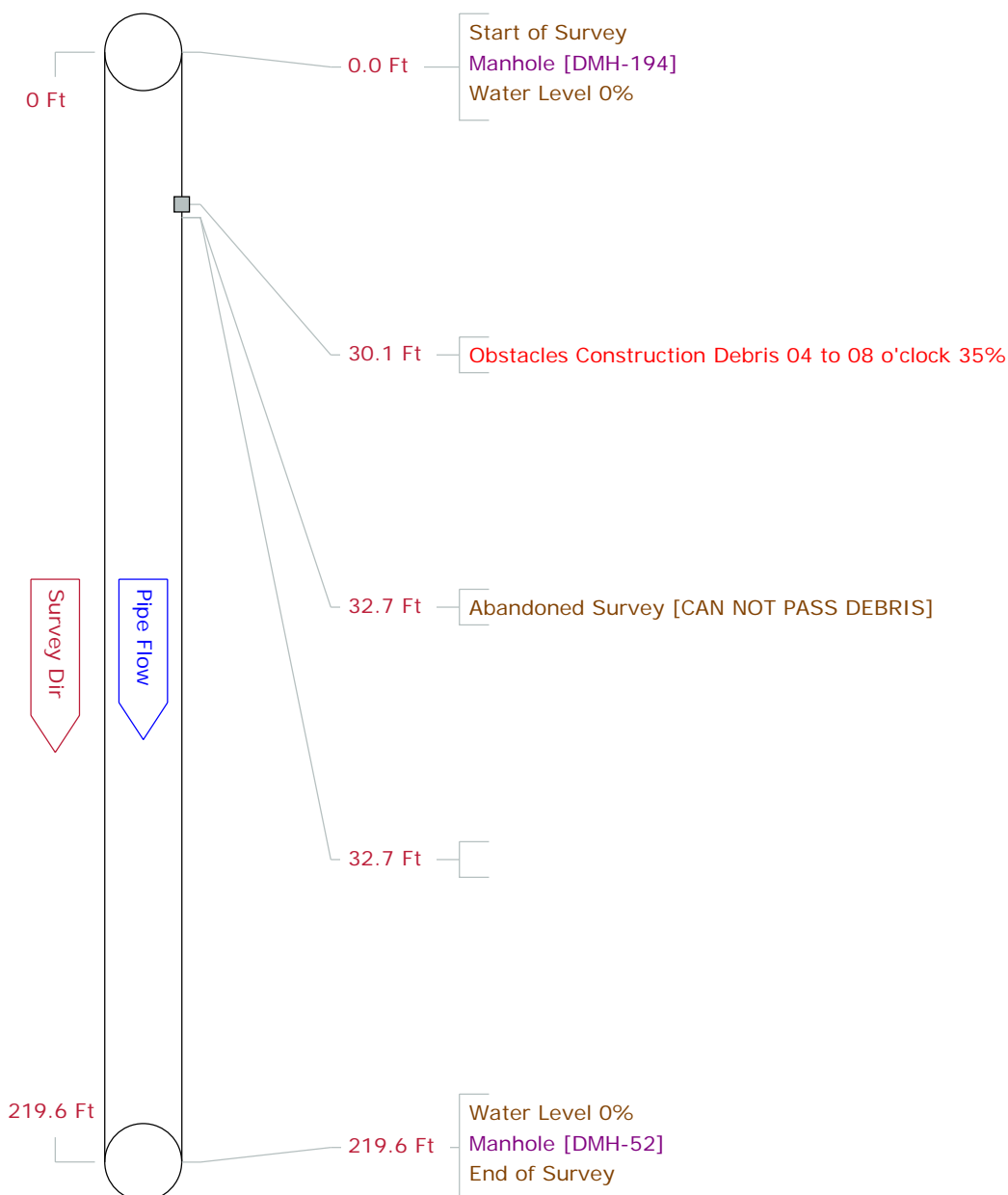
# Pipe Graphic Report of PLR DCB-505 X for WOODARD & CURRAN

<b>Setup</b> 8	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 10:55	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-505	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-194	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 21	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 46.7 <b>Ft</b>	<b>Length Surveyed</b> 46.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



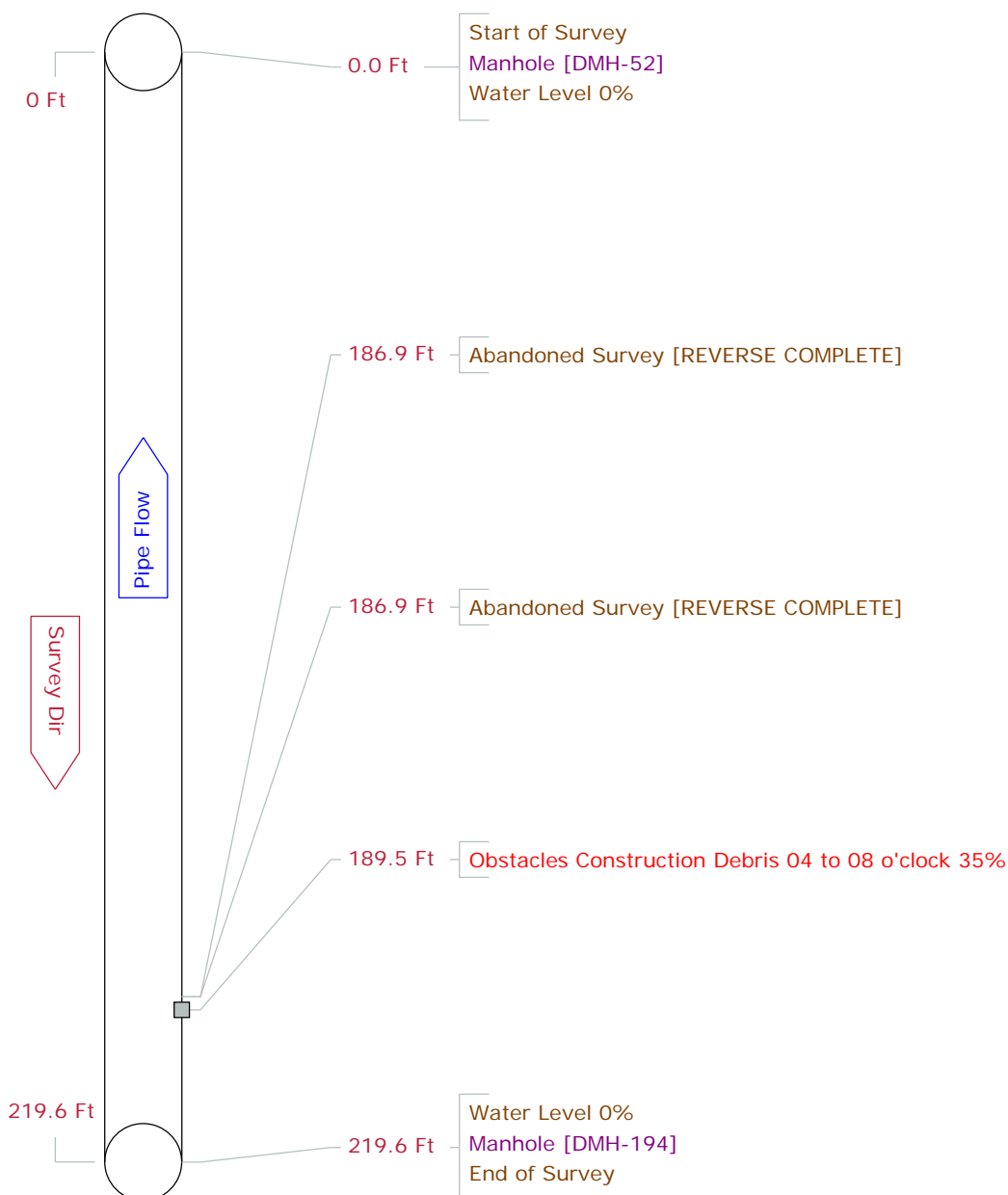
# Pipe Graphic Report of PLR DMH-194 X for WOODARD & CURRAN

<b>Setup</b> 9/10	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 11:10	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-194	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-52	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 21	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 219.6 <b>Ft</b>	<b>Length Surveyed</b> 32.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DMH-194 X for WOODARD & CURRAN

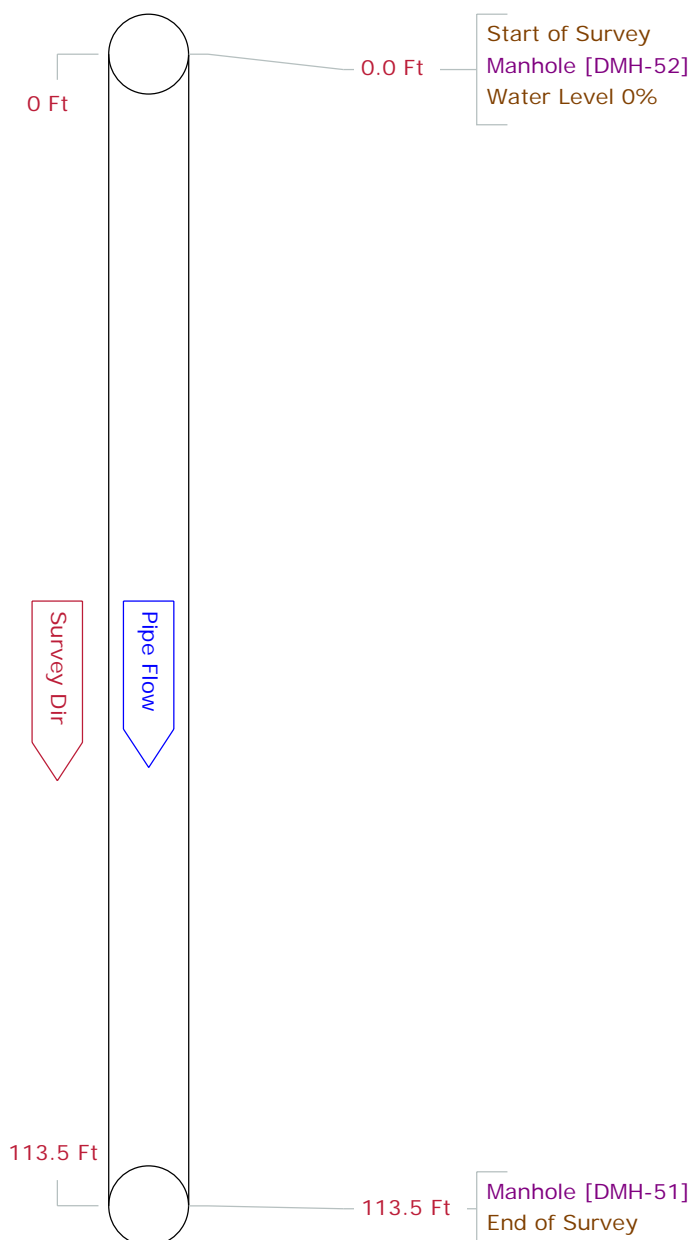
<b>Setup</b>	10/9	<b>Surveyor</b>	WP	<b>Certificate #</b>	T-001-002	<b>System Owner</b>	SUNY OF ALBANY
<b>Drainage</b>	STORM DRAIN	<b>Survey Customer</b>	WOODARD & CURRAN				
<b>P/O #</b>		<b>Date</b>	2007/08/01	<b>Time</b>	11:14	<b>Street</b>	SUNY OF ALBANY
<b>Locality</b>	VARIOUS LOCATIONS	<b>Further location details</b>					
<b>Start</b>	DMH-52	<b>Rim to invert</b>		<b>Grade to invert</b>		<b>Rim to grade</b>	<b>Ft</b>
<b>Finish</b>	DMH-194	<b>Rim to invert</b>		<b>Grade to invert</b>		<b>Rim to grade</b>	<b>Ft</b>
<b>Use</b>	Stormwater	<b>Direction</b>	Upstream	<b>Flow control</b>	Not Controlled	<b>Tape/Media #</b>	WP-03
<b>Shape</b>	Circular	<b>Height</b>	21	<b>Width</b>	ins	<b>Preclean</b>	N
<b>Material</b>	Reinforced Concrete Pipe	<b>Joint length</b>	Ft	<b>Total length</b>	219.6	<b>Ft</b>	<b>Length Surveyed</b> 186.90
<b>Lining</b>		<b>Year laid</b>		<b>Year rehabilitated</b>		<b>Weather</b>	Dry
<b>Purpose</b>	Infiltration/Inflow Investigation	<b>Cat</b>					
<b>Additional info</b>	Reverse set up on sheet:9					<b>Structural</b>	<b>O&amp;M</b>
<b>Location</b>	Parking Lot					<b>Miscellaneous</b>	<b>Hydraulic</b>
						<b>Constructional</b>	





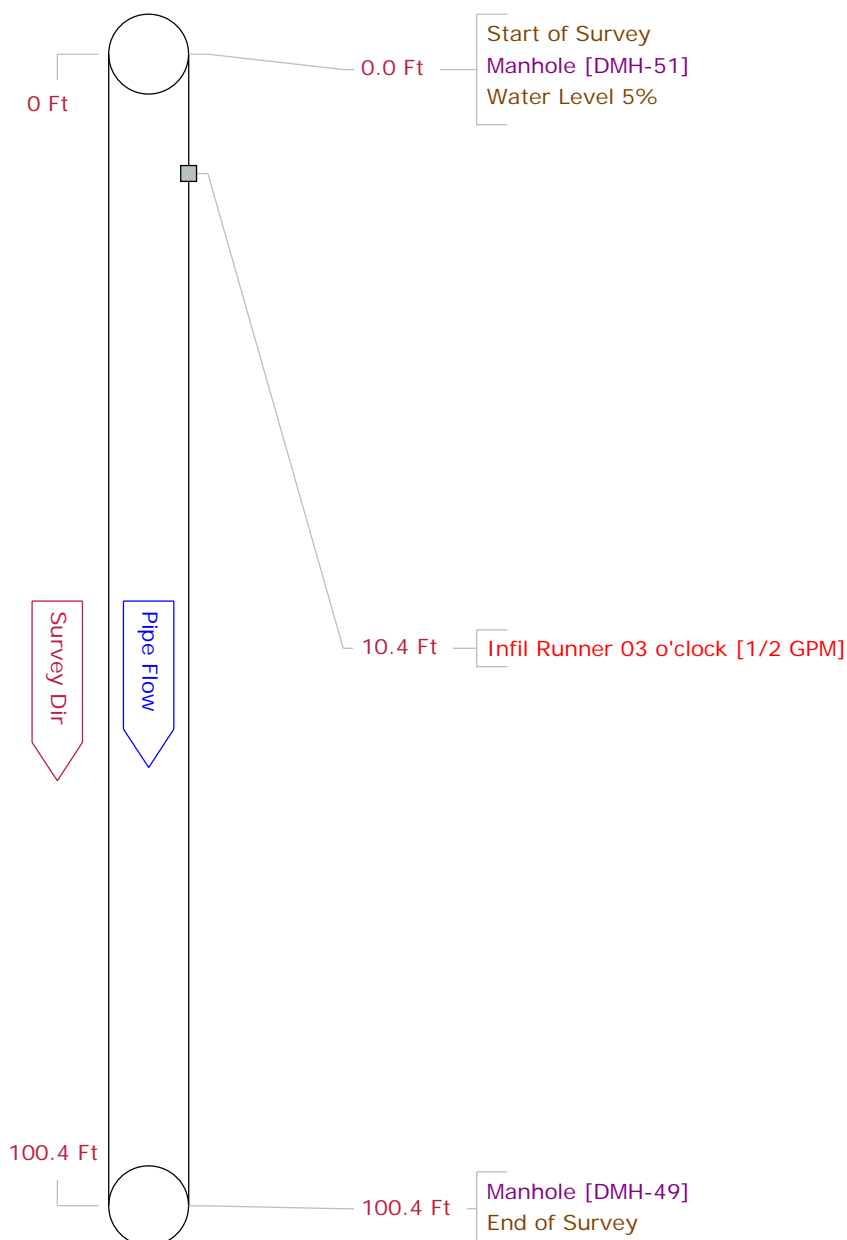
# Pipe Graphic Report of PLR DMH-52 X for WOODARD & CURRAN

<b>Setup</b> 11	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 12:20	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-52	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-51	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 27	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 113.5 <b>Ft</b>	<b>Length Surveyed</b> 113.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



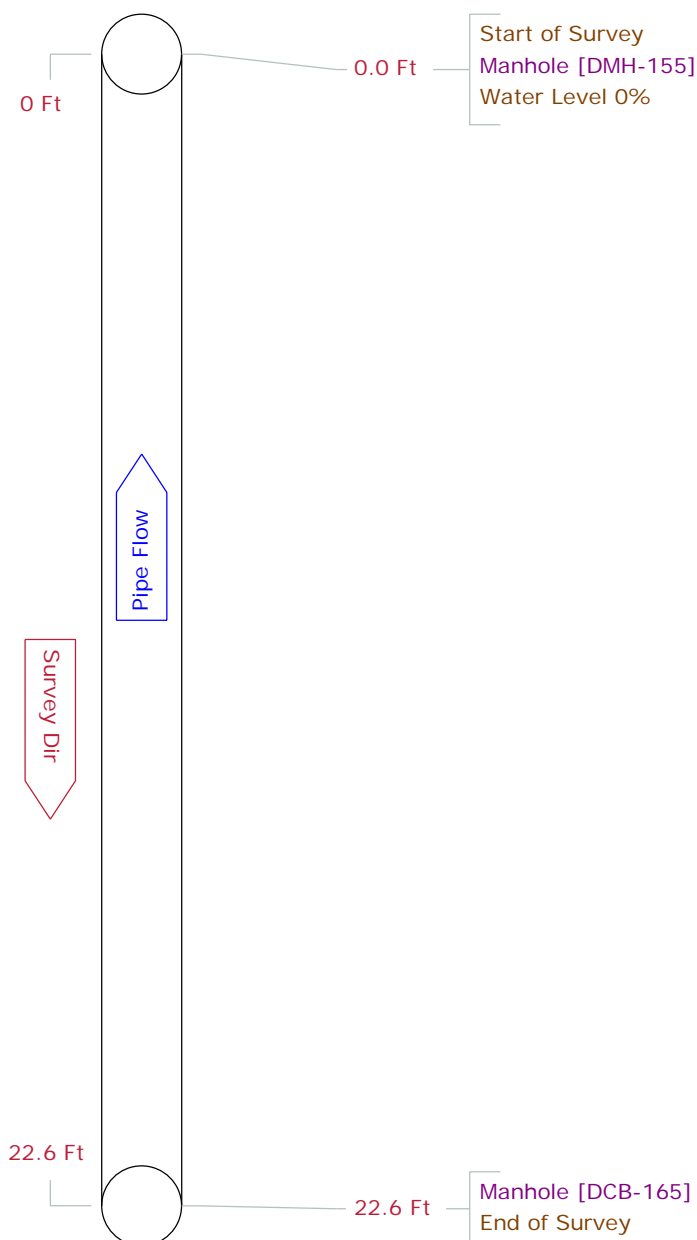
# Pipe Graphic Report of PLR DMH-51 X for WOODARD & CURRAN

<b>Setup</b> 12	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/01	<b>Time</b> 12:36	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-51	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-49	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 27	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 100.4 <b>Ft</b>	<b>Length Surveyed</b> 100.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



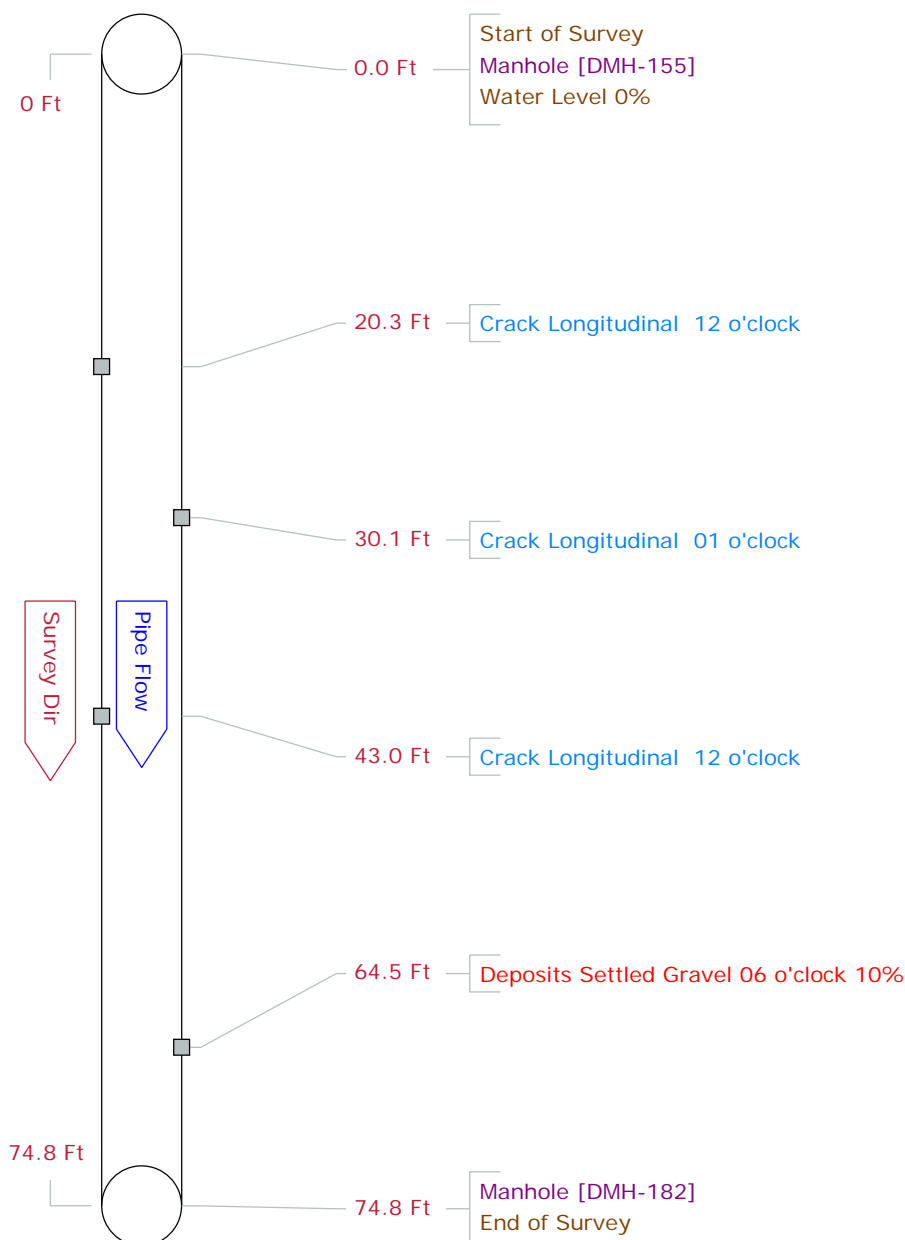
# Pipe Graphic Report of PLR DCB-165 X for WOODARD & CURRAN

<b>Setup</b> 13	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 9:54	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-155	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-165	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 22.6 <b>Ft</b>	<b>Length Surveyed</b> 22.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



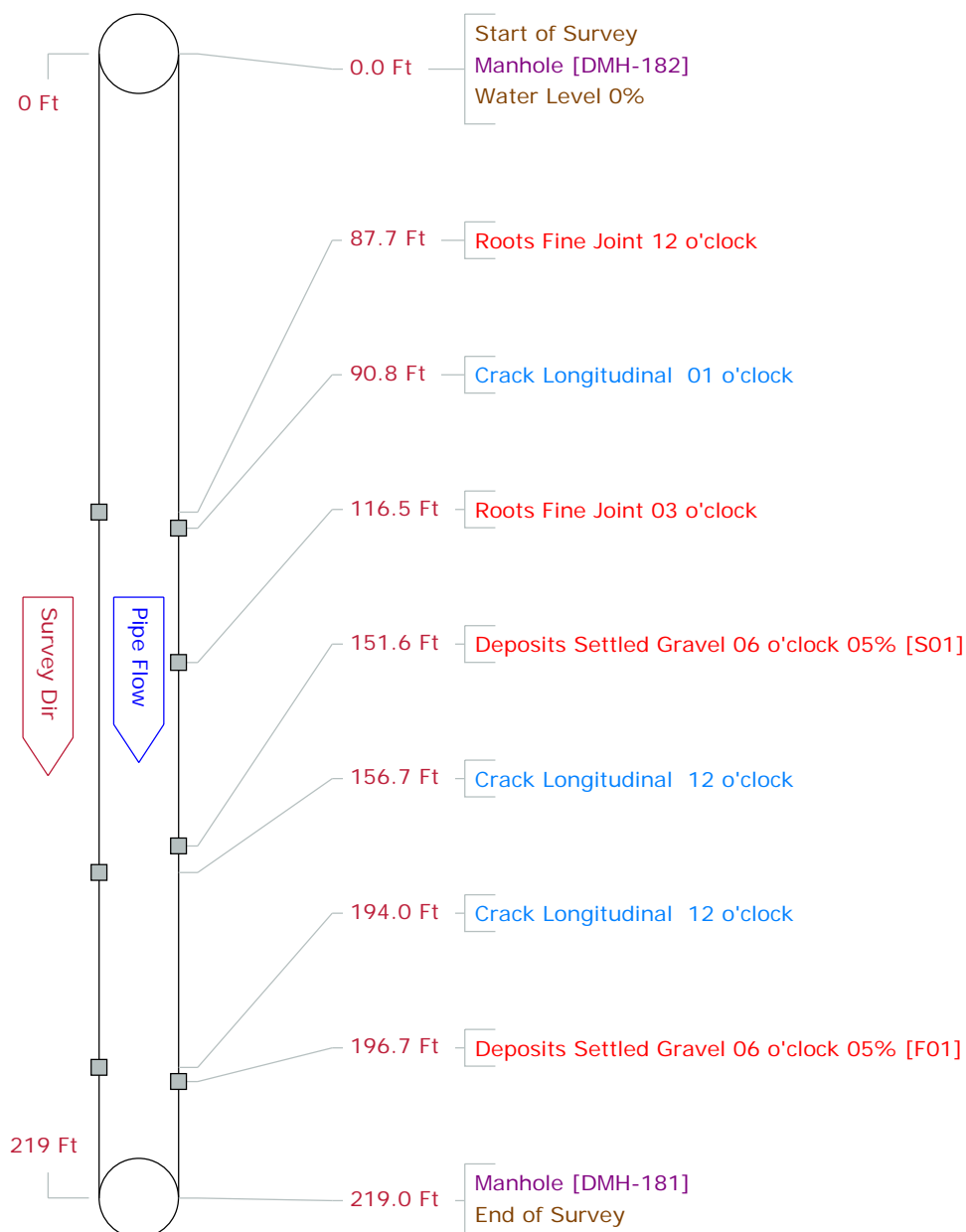
# Pipe Graphic Report of PLR DMH-155 X for WOODARD & CURRAN

<b>Setup</b> 14	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 9:58	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-155	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-182	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 74.8 <b>Ft</b>	<b>Length Surveyed</b> 74.80
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



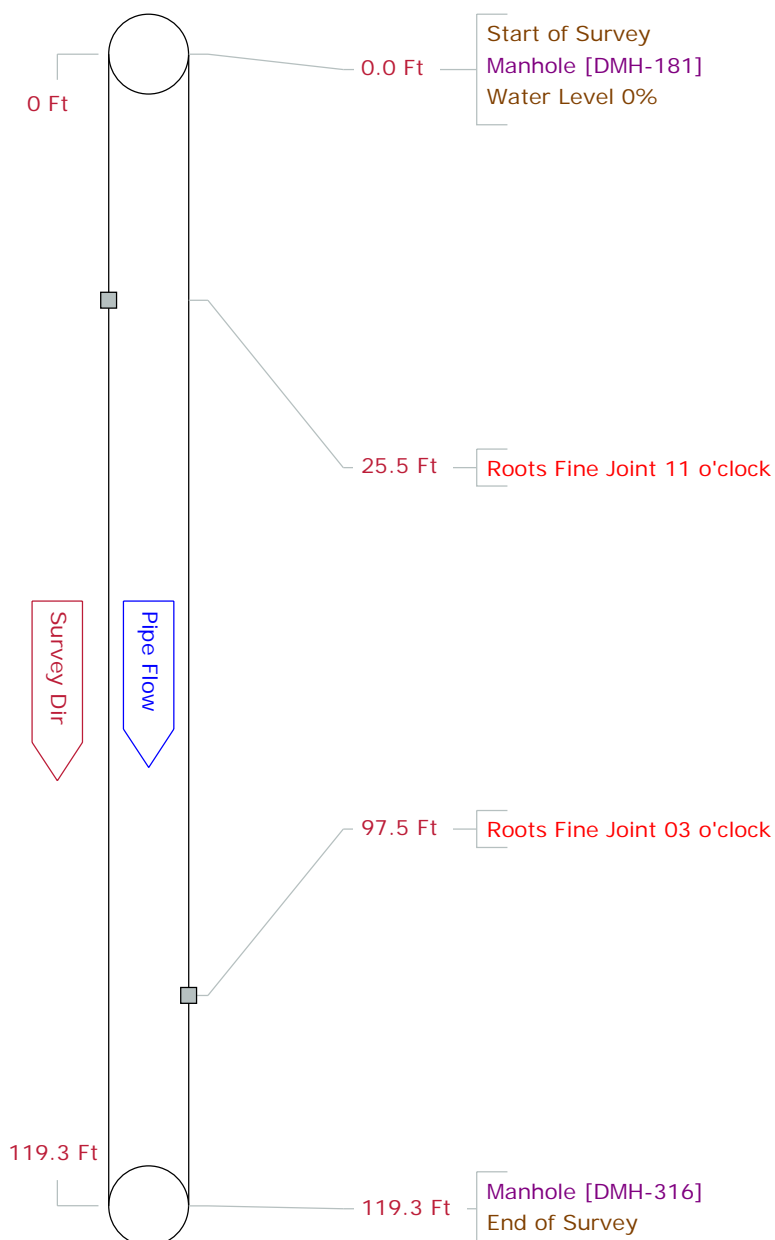
# Pipe Graphic Report of PLR DMH-182 X for WOODARD & CURRAN

<b>Setup</b> 15	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 10:16	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-182	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-181	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 18	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 219.0 <b>Ft</b>	<b>Length Surveyed</b> 219.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



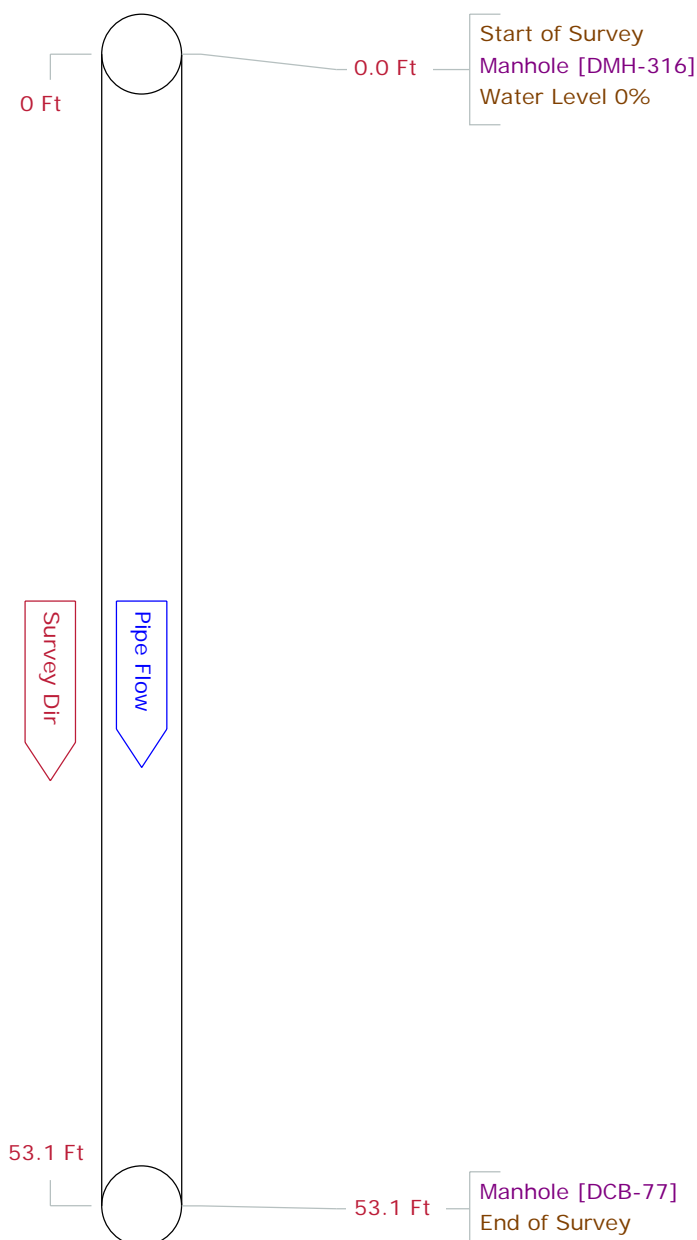
# Pipe Graphic Report of PLR DMH-181 X for WOODARD & CURRAN

<b>Setup</b> 16	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 12:54	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-181	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-316	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 18	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 119.3 <b>Ft</b>	<b>Length Surveyed</b> 119.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



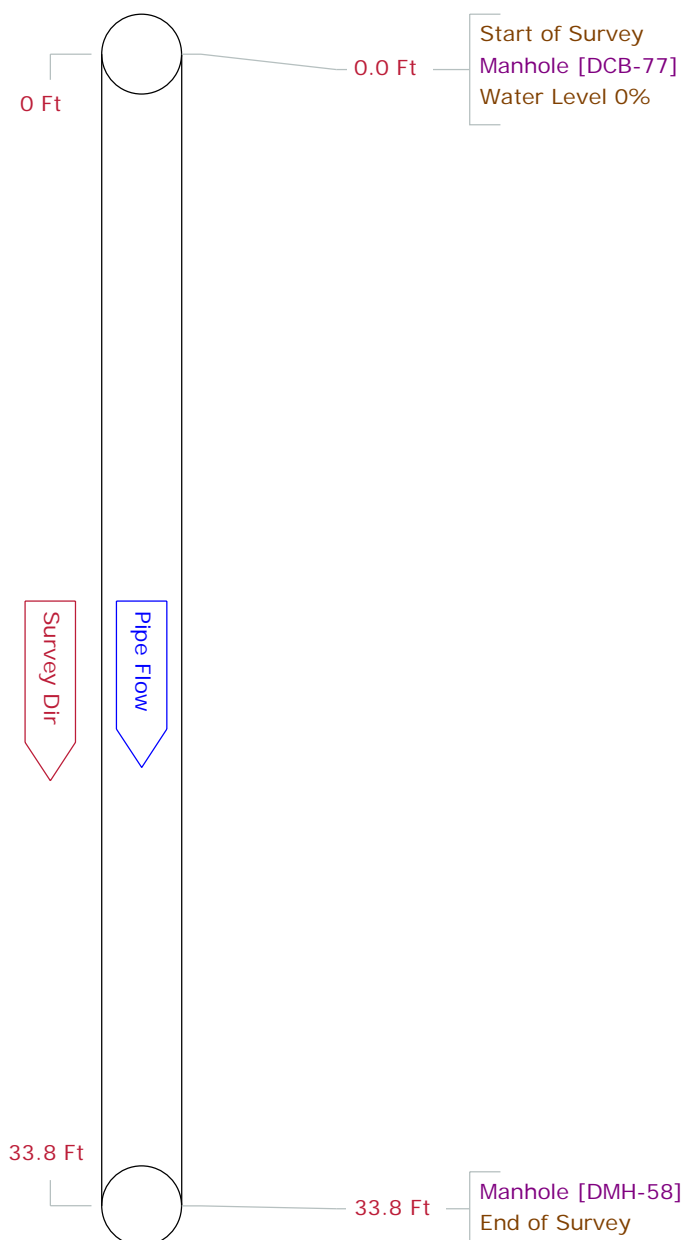
# Pipe Graphic Report of PLR DMH-316 X for WOODARD & CURRAN

<b>Setup</b> 17	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 13:00	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-316	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-77	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 18	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 53.1 <b>Ft</b>	<b>Length Surveyed</b> 53.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-77 X for WOODARD & CURRAN

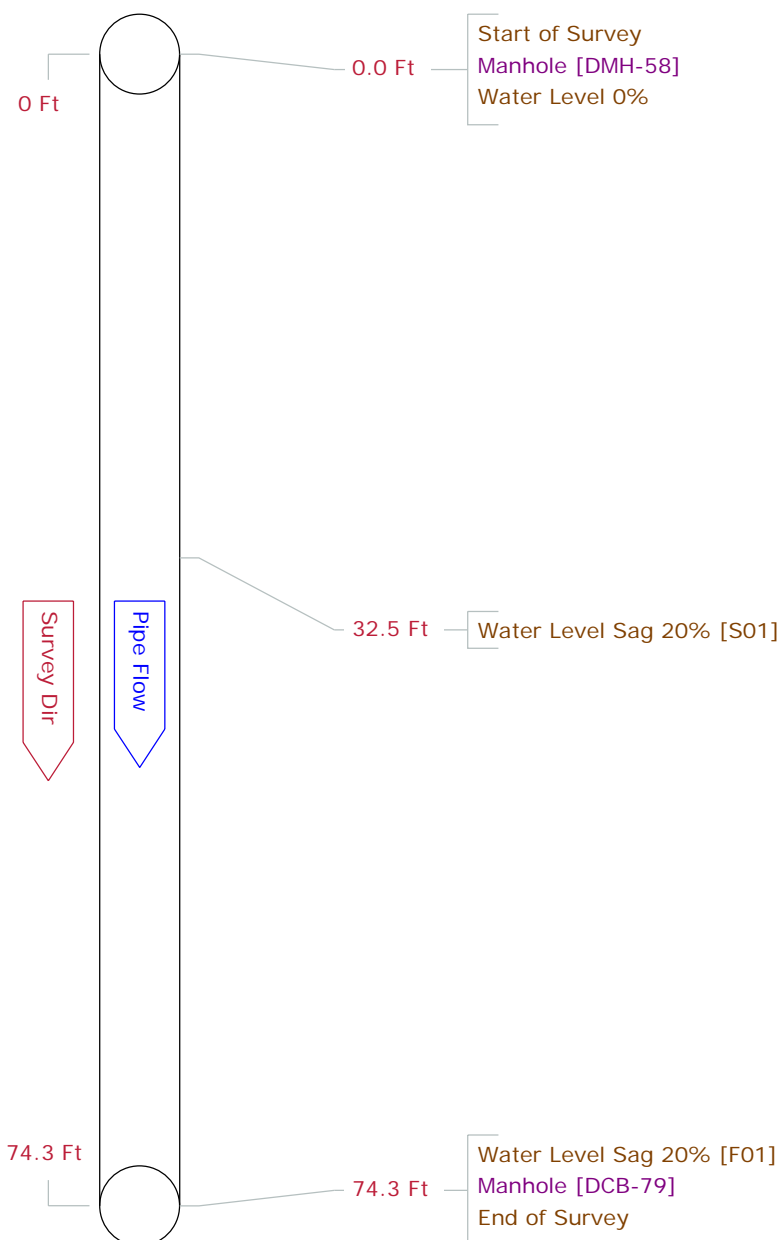
<b>Setup</b> 18	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 13:03	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-77	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-58	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 21	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 33.8	<b>Ft</b> <b>Length Surveyed</b> 33.80
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





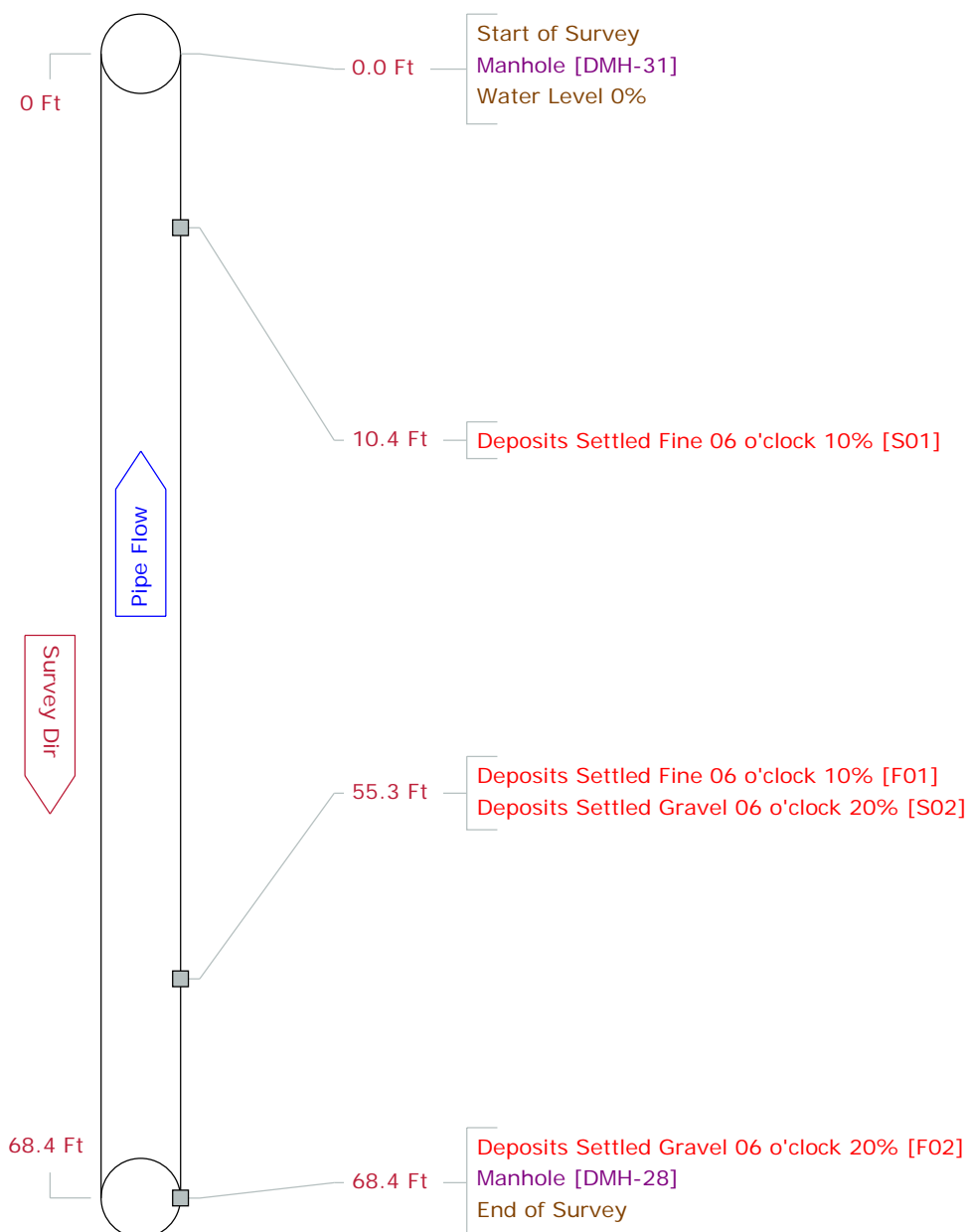
# Pipe Graphic Report of PLR DMH-58 X for WOODARD & CURRAN

<b>Setup</b> 19	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 13:06	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-58	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-79	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 21	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 74.3	<b>Ft</b> <b>Length Surveyed</b> 74.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



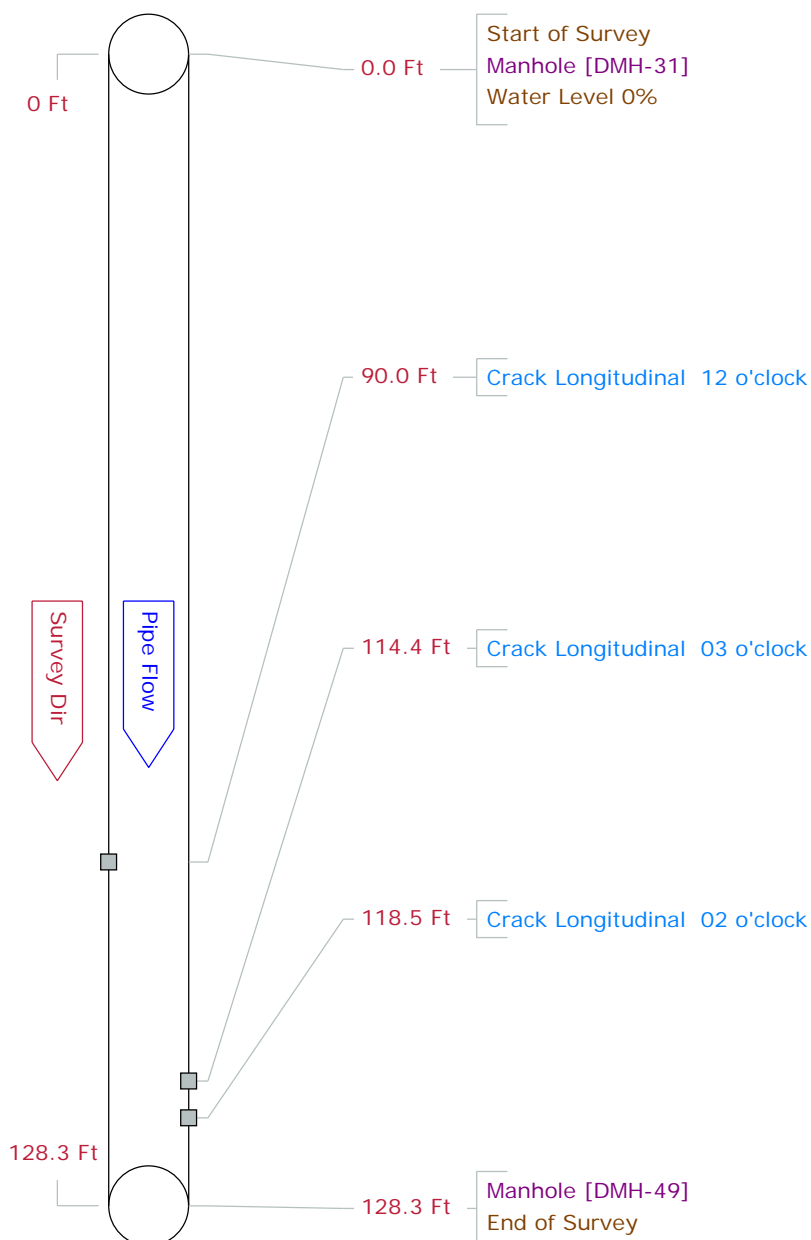
# Pipe Graphic Report of PLR DMH-28 X for WOODARD & CURRAN

<b>Setup</b> 20	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 13:46	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-31	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-28	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 68.4 <b>Ft</b>	<b>Length Surveyed</b> 68.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



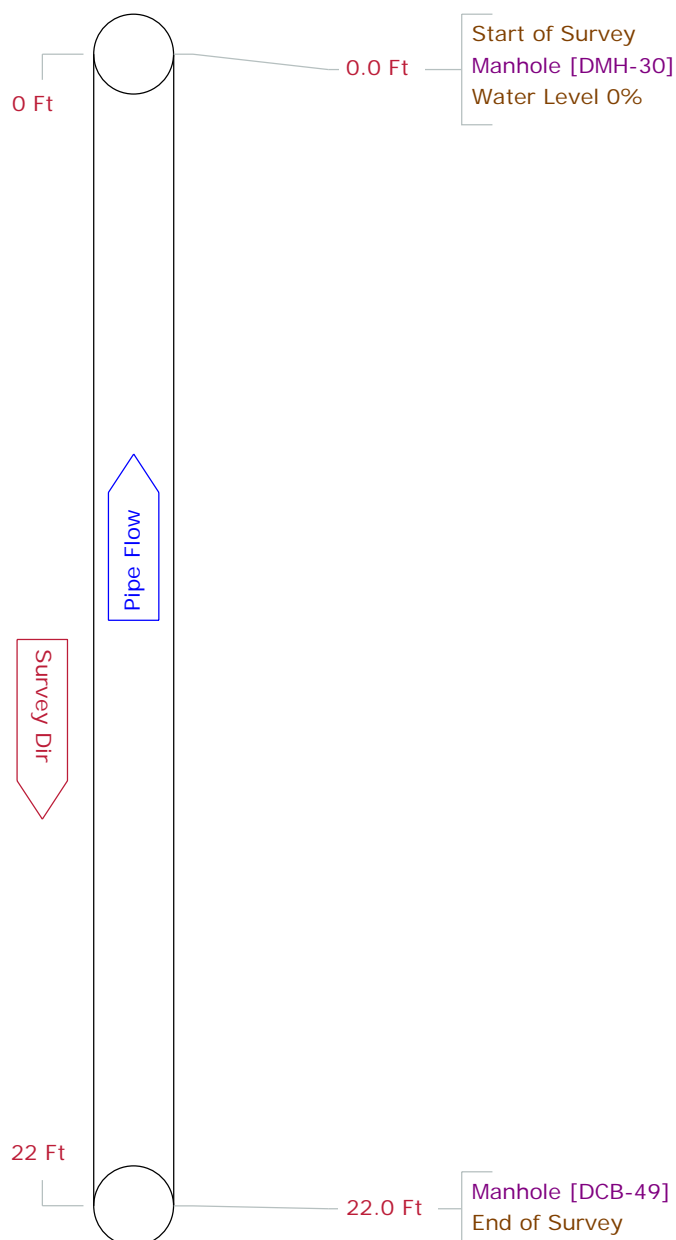
# Pipe Graphic Report of PLR DMH-31 X for WOODARD & CURRAN

<b>Setup</b> 21	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 13:56	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-31	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-49A	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 128.3 <b>Ft</b>	<b>Length Surveyed</b> 128.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



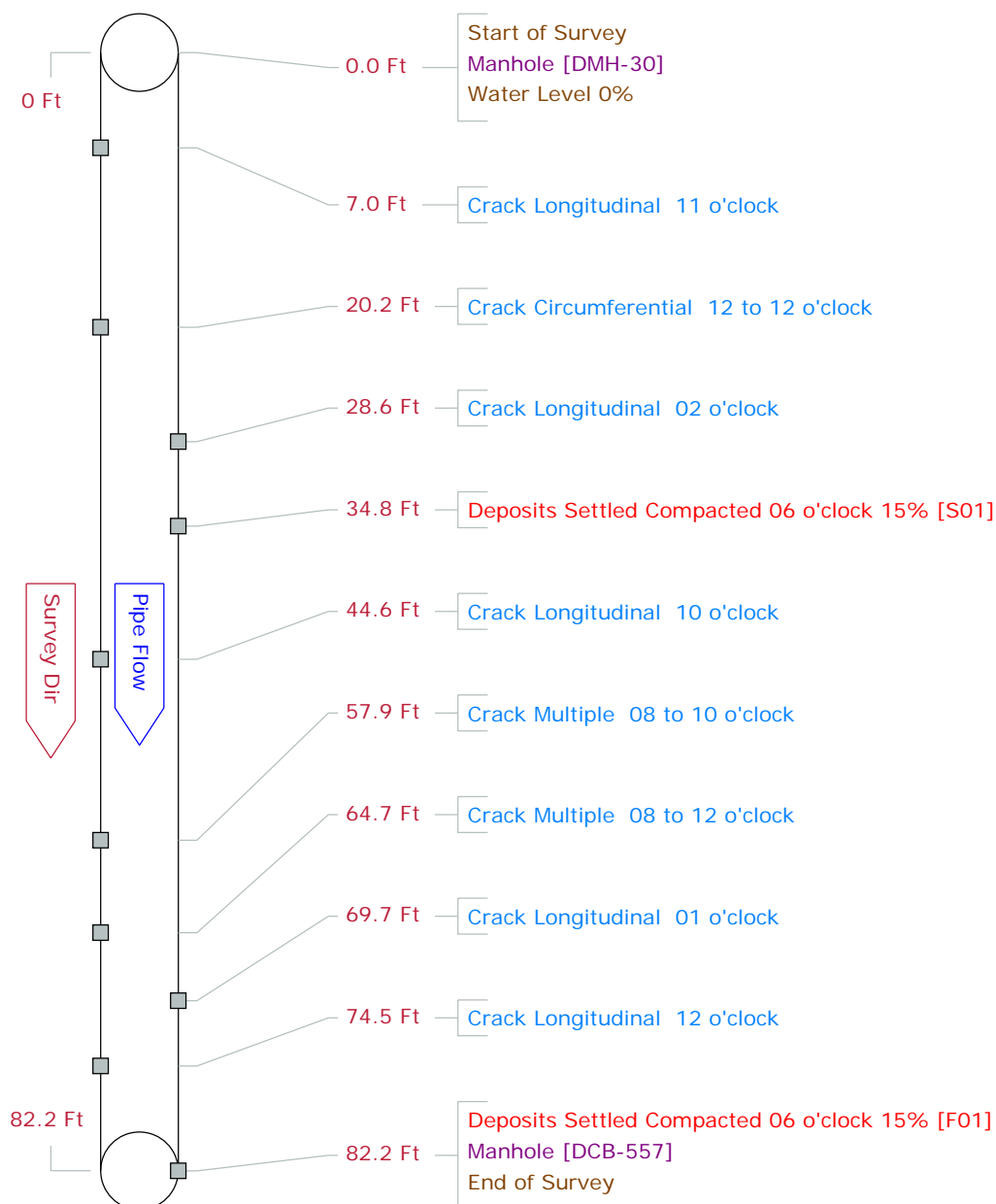
# Pipe Graphic Report of PLR DCB-50 X for WOODARD & CURRAN

<b>Setup</b> 22	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 14:19	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-30	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-50	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 22.0 <b>Ft</b>	<b>Length Surveyed</b> 22.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



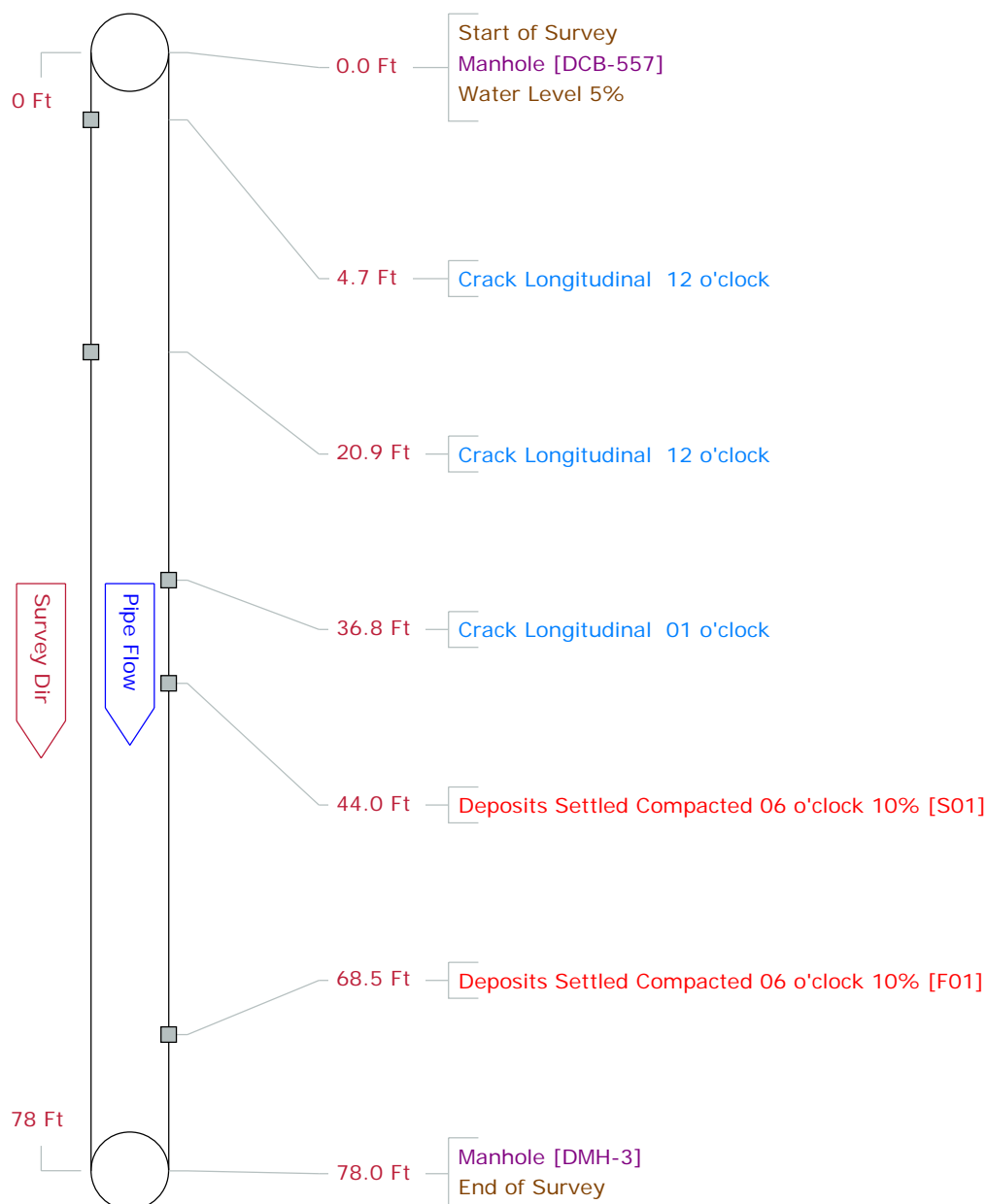
# Pipe Graphic Report of PLR DMH-30 X for WOODARD & CURRAN

<b>Setup</b> 23	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 14:23	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-30	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-557	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 82.2 <b>Ft</b>	<b>Length Surveyed</b> 82.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



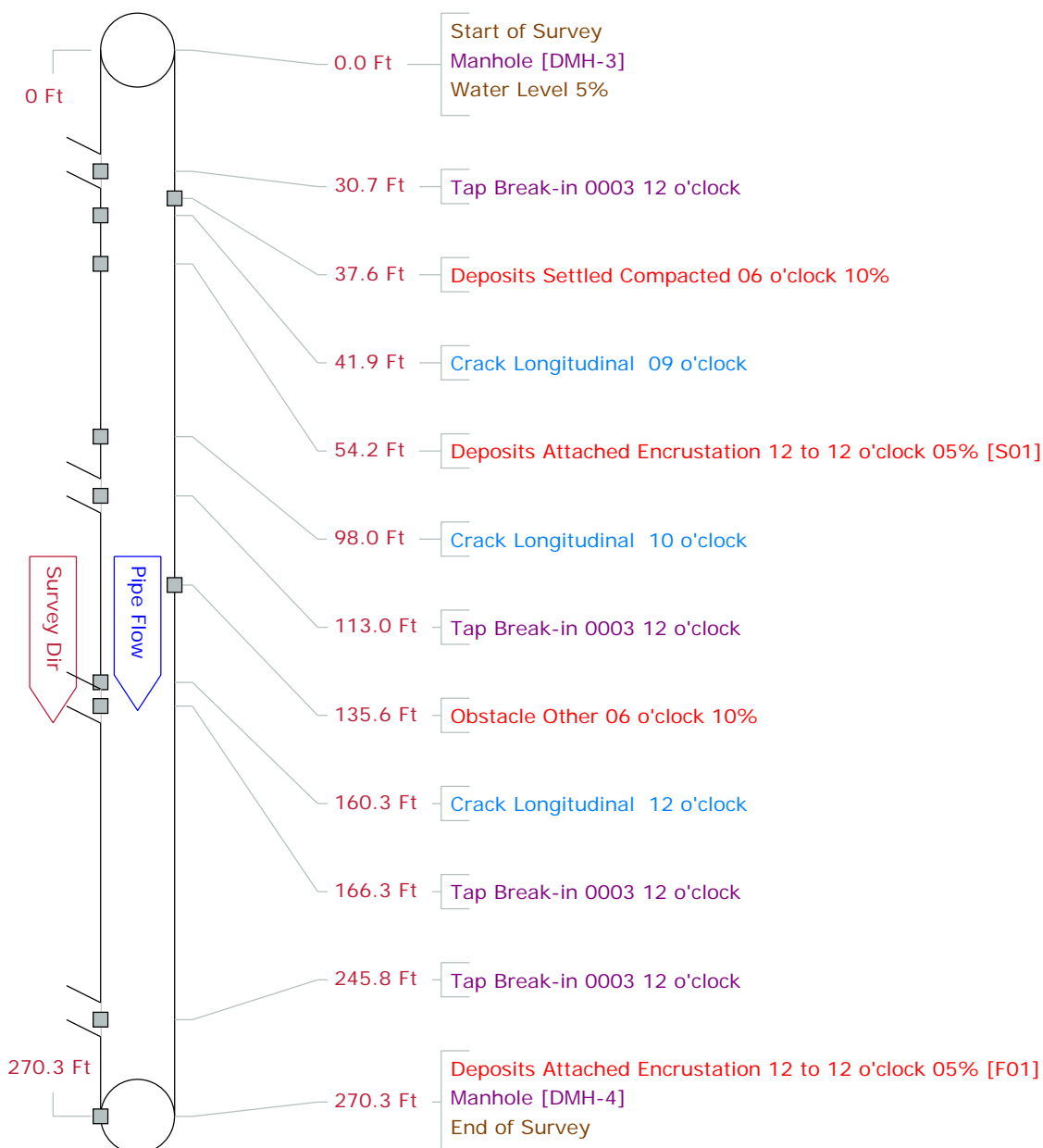
# Pipe Graphic Report of PLR DCB-557 X for WOODARD & CURRAN

<b>Setup</b> 24	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 14:30	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-557	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-3	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 18	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 78.0 <b>Ft</b>	<b>Length Surveyed</b> 78.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



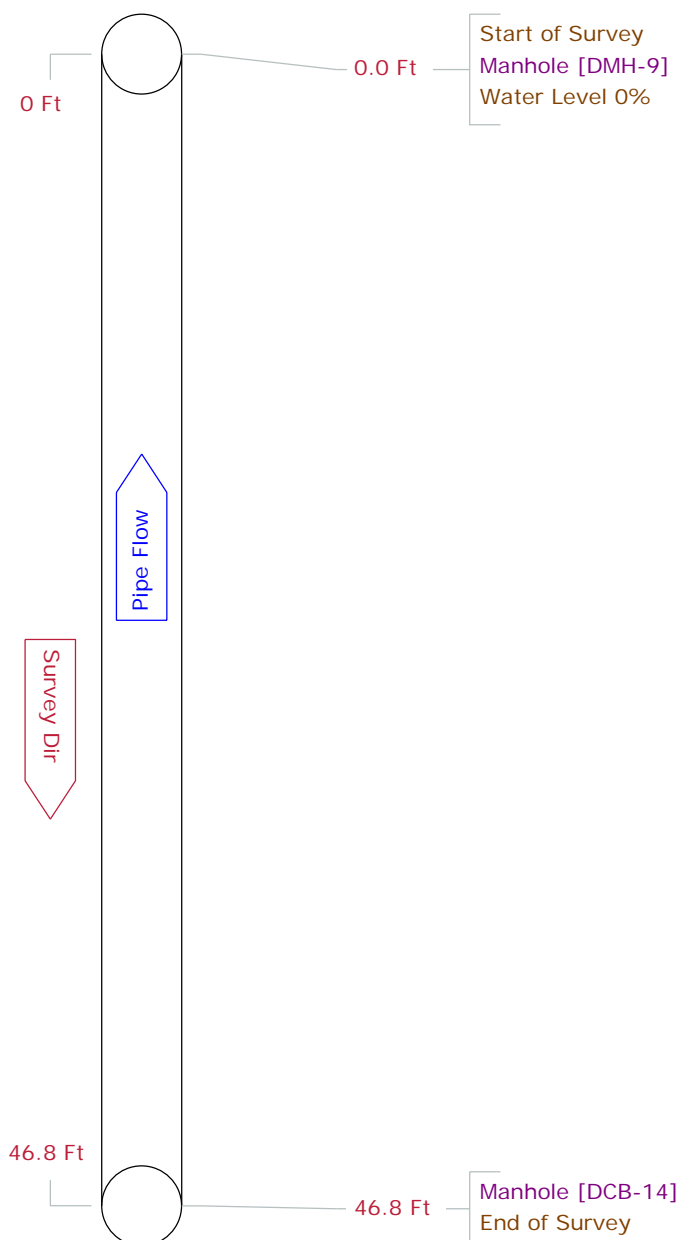
# Pipe Graphic Report of PLR DMH-3 X for WOODARD & CURRAN

<b>Setup</b> 25	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 14:38	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-3	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-4	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 18	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 270.3 <b>Ft</b>	<b>Length Surveyed</b> 270.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-14 X for WOODARD & CURRAN

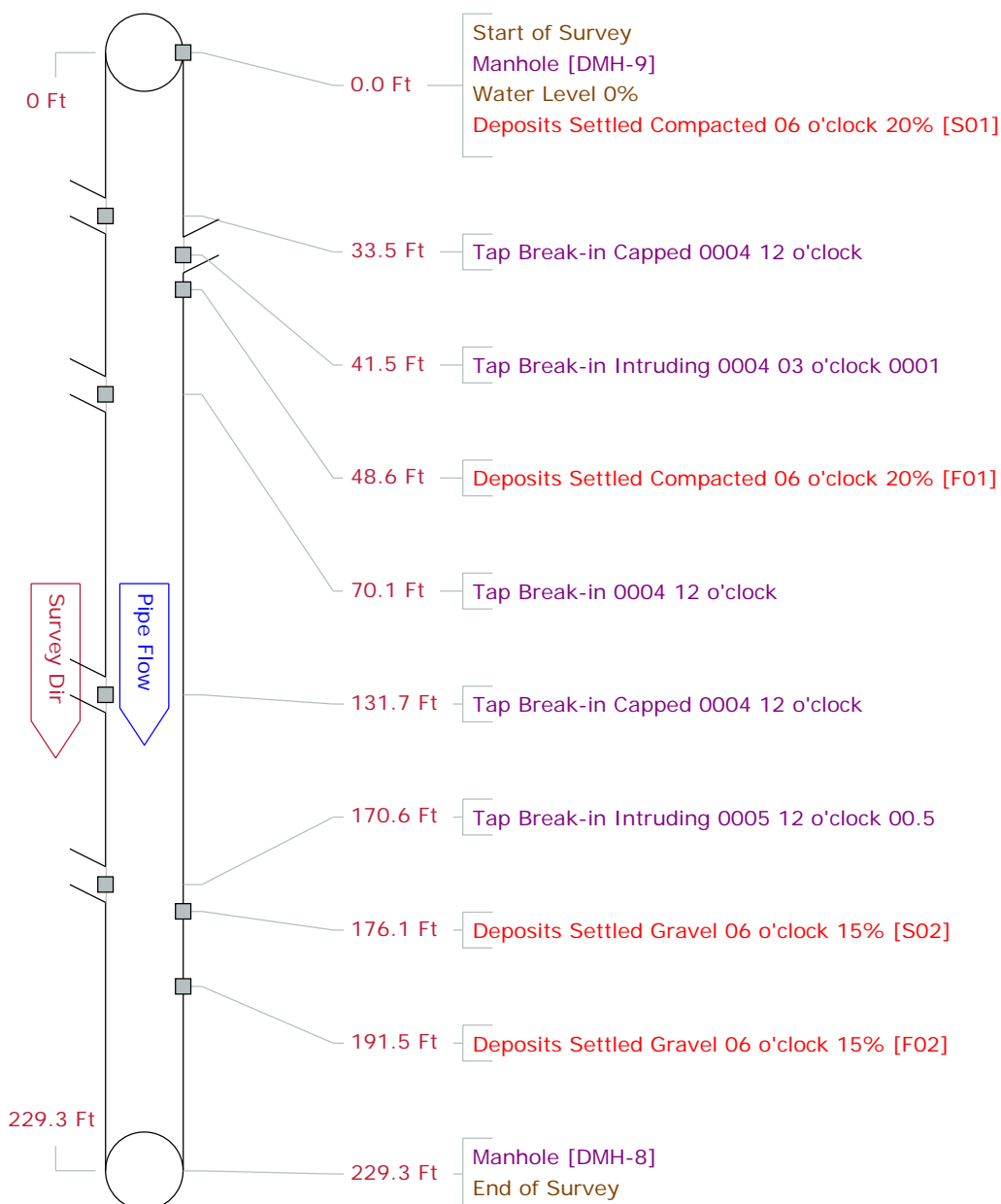
<b>Setup</b> 26	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/06	<b>Time</b> 15:29	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-9	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-14	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15 <b>Width</b> ins	<b>Preclean</b> N	<b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 46.8 <b>Ft</b>	<b>Length Surveyed</b> 46.80
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





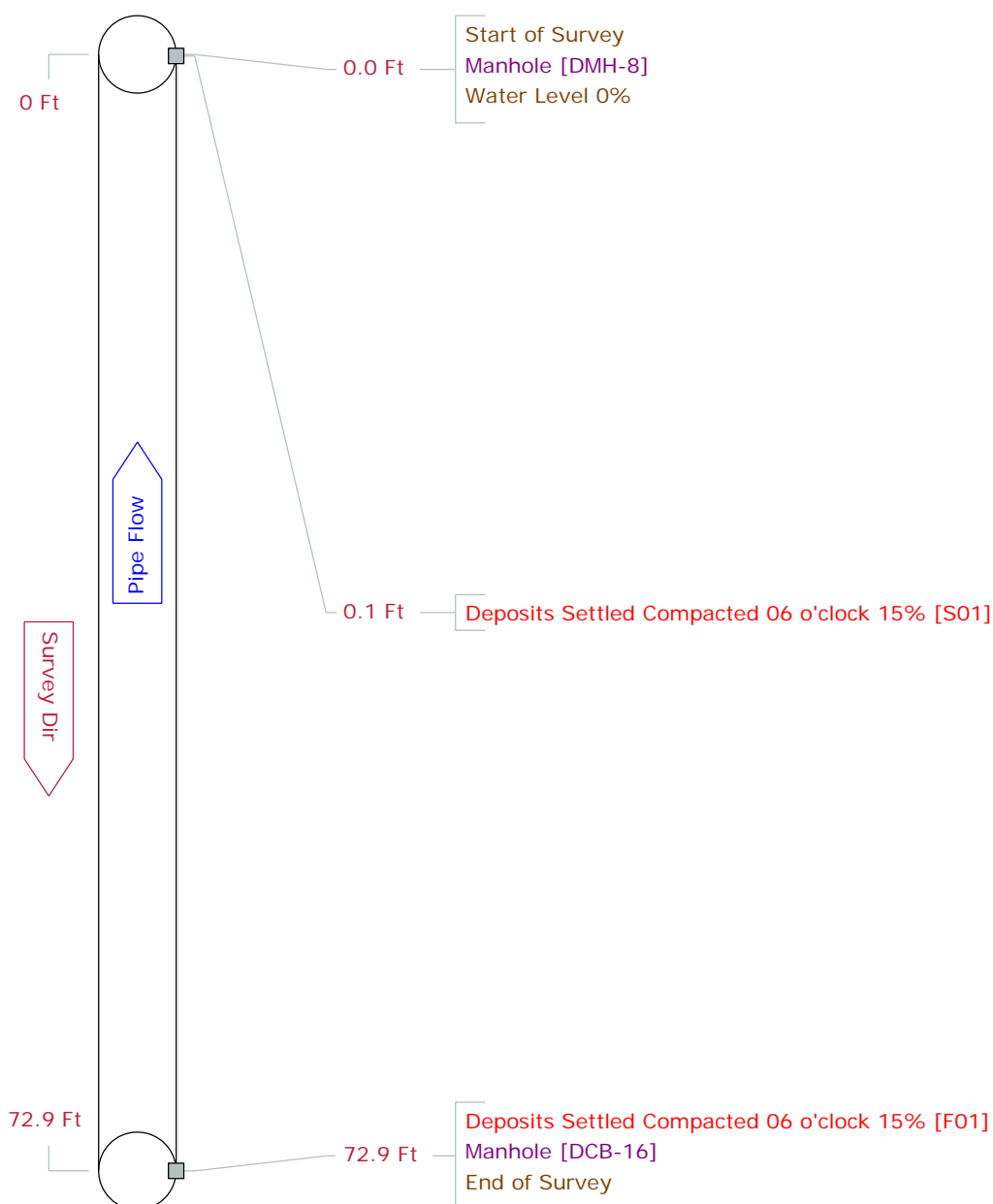
# Pipe Graphic Report of PLR DMH-9 X for WOODARD & CURRAN

<b>Setup</b> 27	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/07	<b>Time</b> 13:27	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-9	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-8	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 229.3 <b>Ft</b>	<b>Length Surveyed</b> 229.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



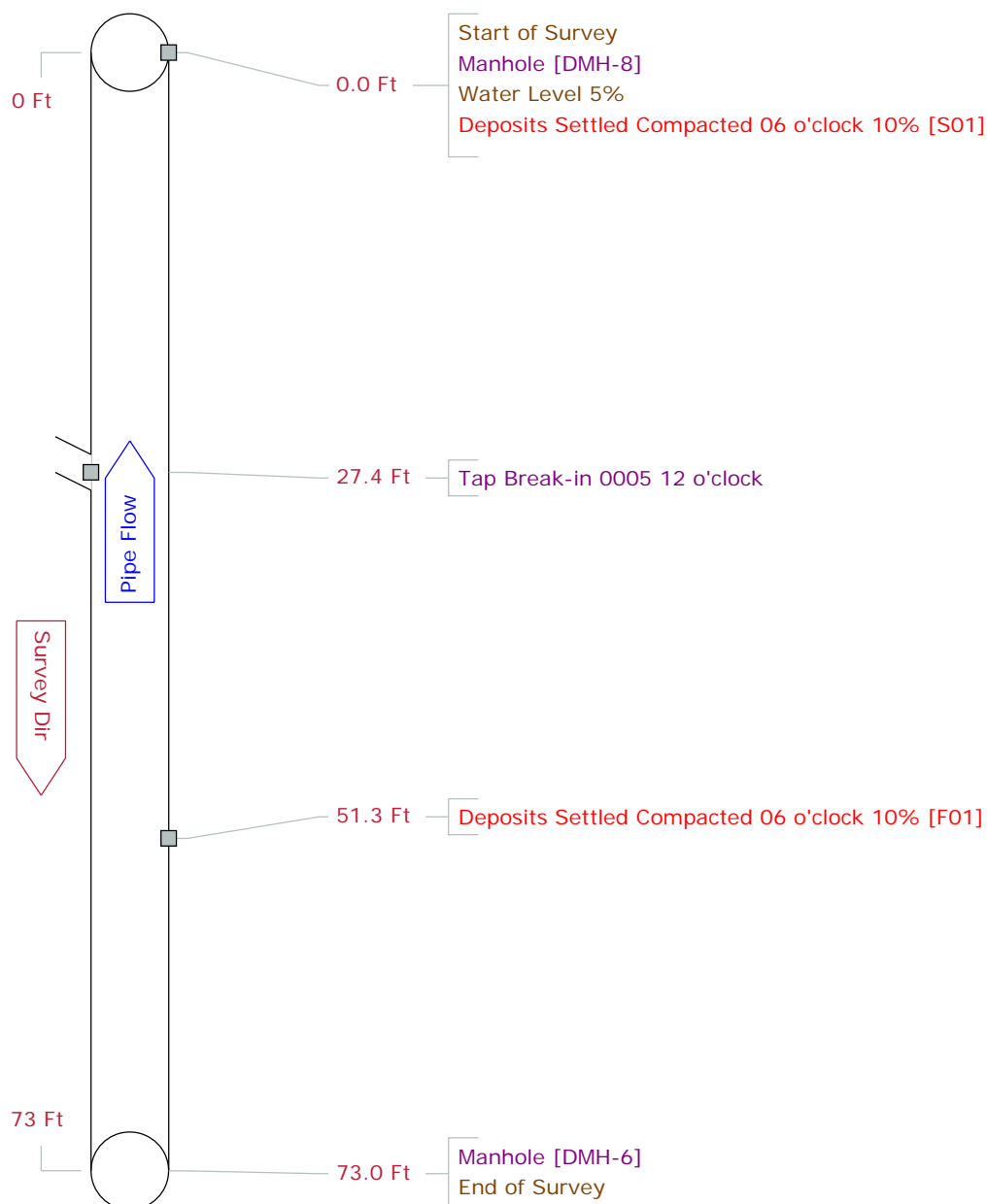
# Pipe Graphic Report of PLR DCB-16 X for WOODARD & CURRAN

<b>Setup</b> 28	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/07	<b>Time</b> 13:54	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-8	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-16	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 72.9 <b>Ft</b>	<b>Length Surveyed</b> 72.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



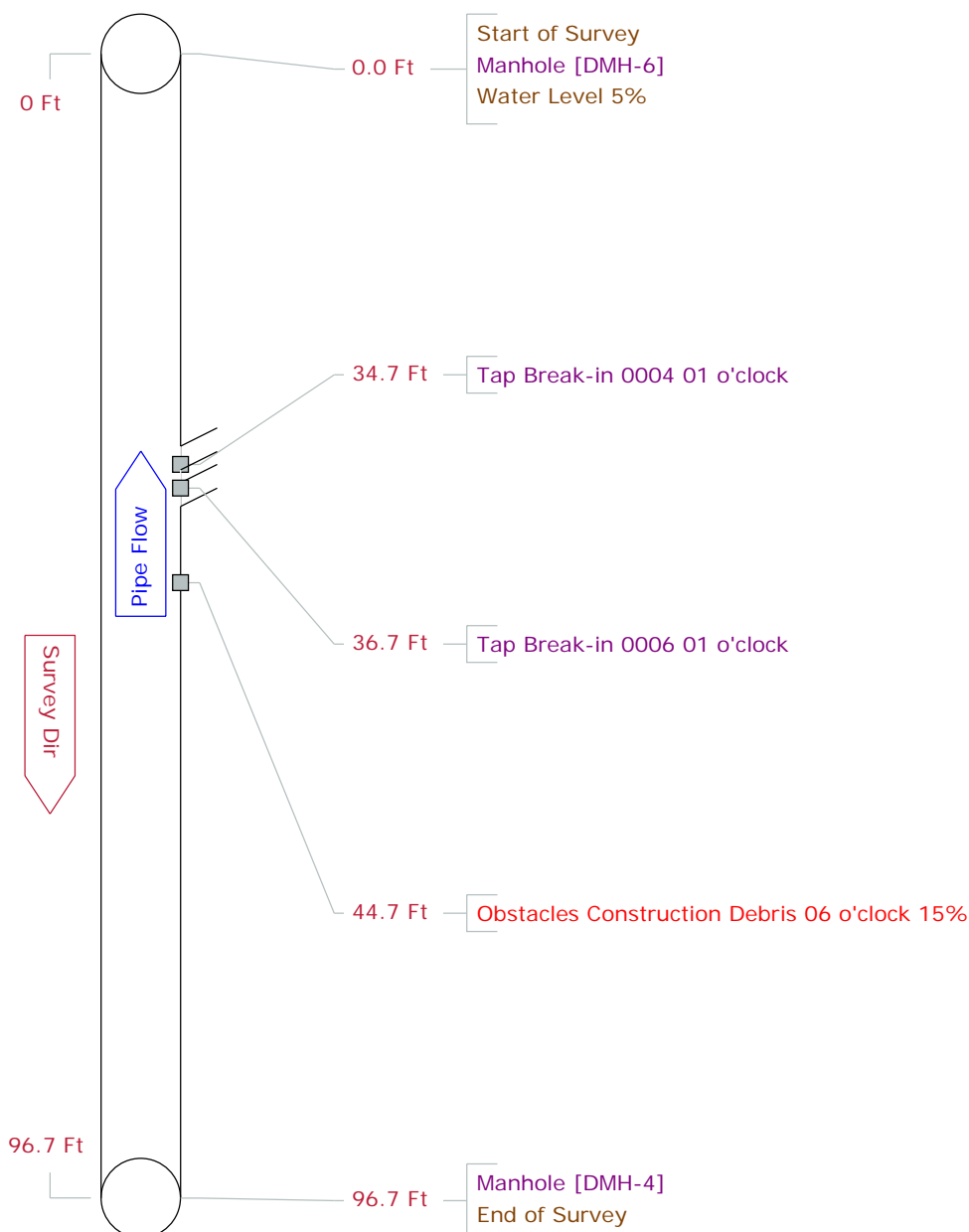
# Pipe Graphic Report of PLR DMH-6 X for WOODARD & CURRAN

<b>Setup</b> 29	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/07	<b>Time</b> 14:19	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-8	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-6	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 21	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 73.0 <b>Ft</b>	<b>Length Surveyed</b> 73.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



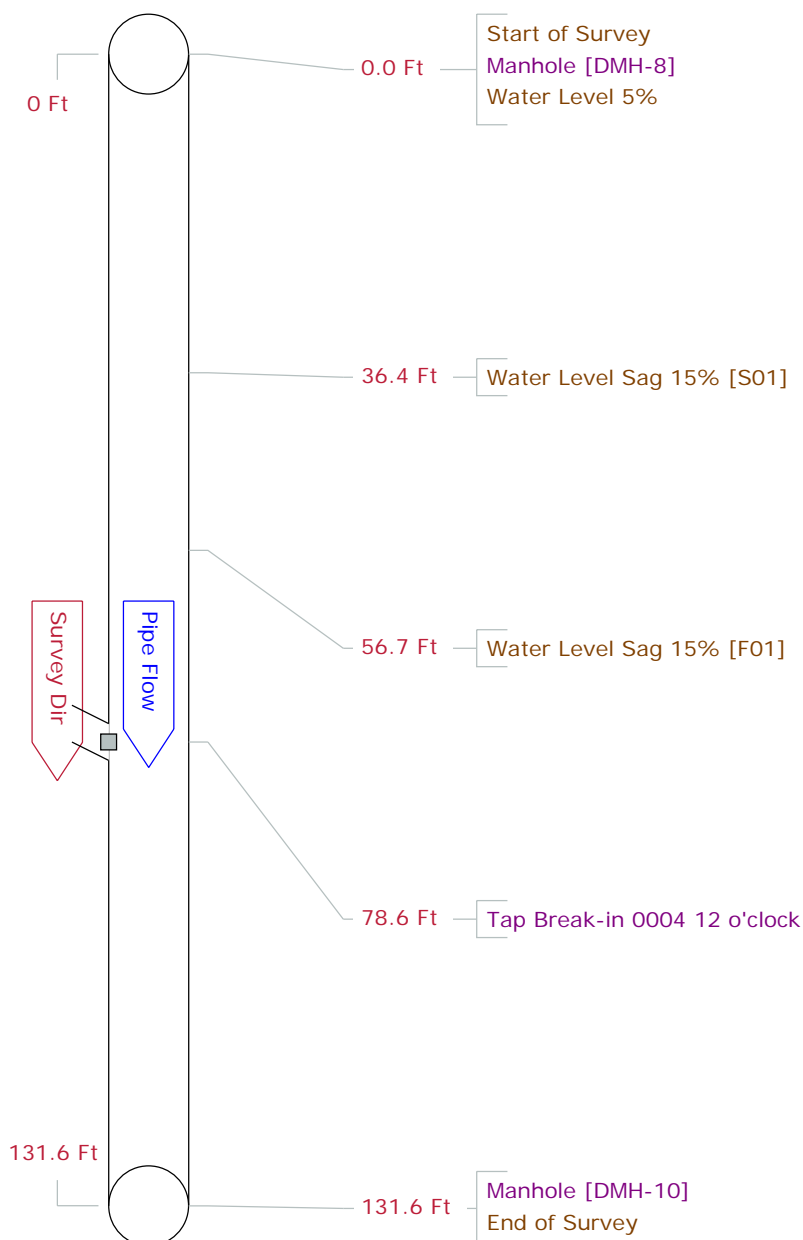
# Pipe Graphic Report of PLR DMH-4 X for WOODARD & CURRAN

<b>Setup</b> 30	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/07	<b>Time</b> 14:23	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-6	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-4	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 21	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 96.7 <b>Ft</b>	<b>Length Surveyed</b> 96.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



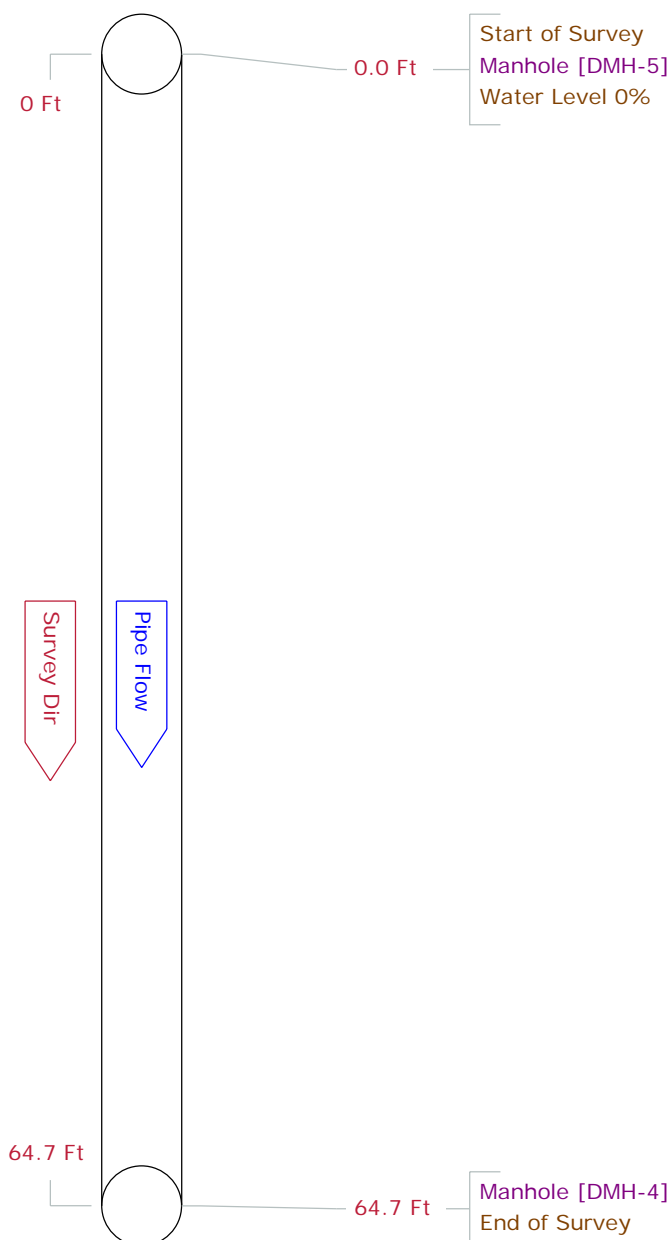
# Pipe Graphic Report of PLR DMH-8 X for WOODARD & CURRAN

<b>Setup</b> 31	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/07	<b>Time</b> 14:33	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-8	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-10	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 21	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 131.6 <b>Ft</b>	<b>Length Surveyed</b> 131.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



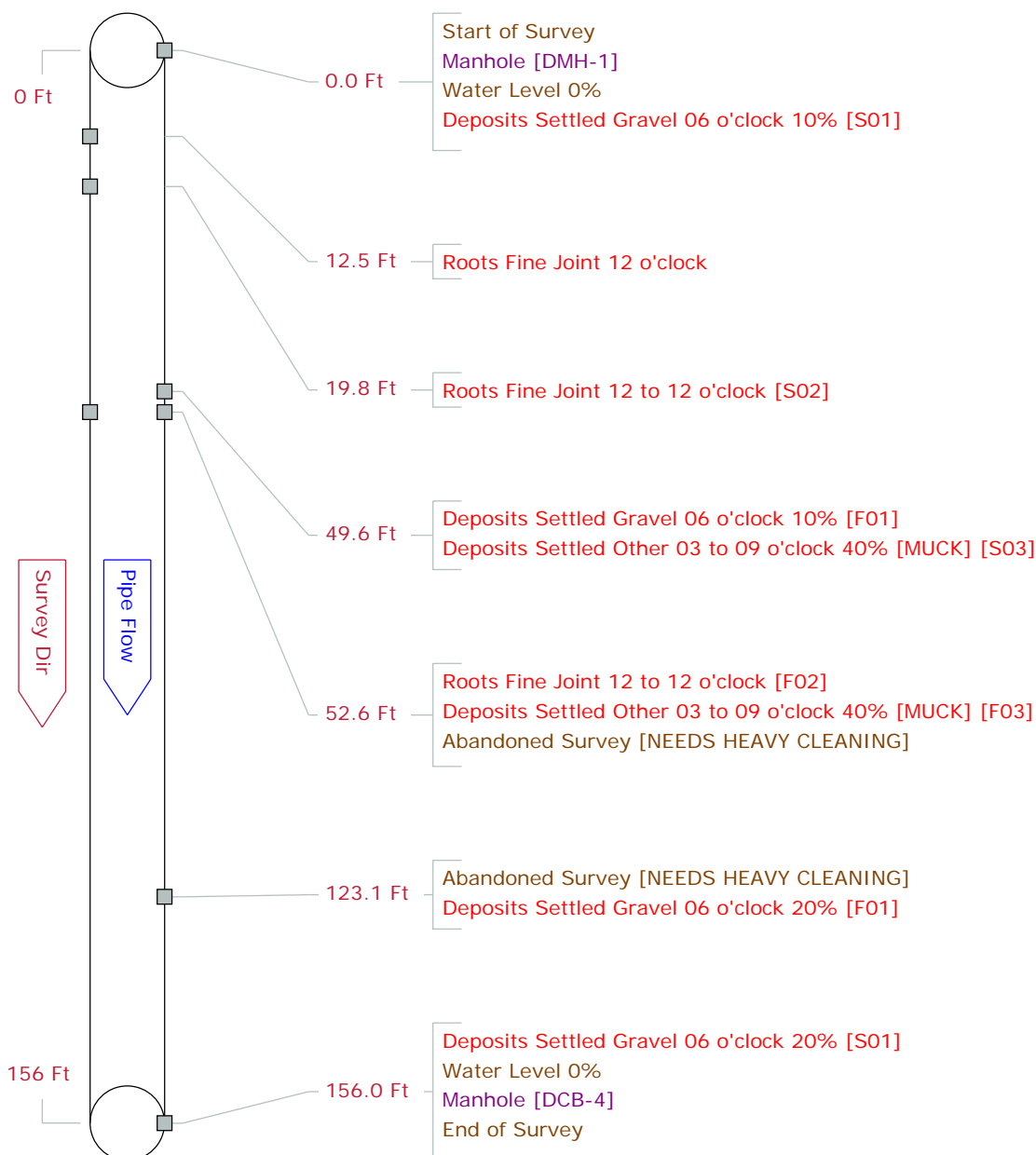
# Pipe Graphic Report of PLR DMH-5 X for WOODARD & CURRAN

<b>Setup</b> 32	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/07	<b>Time</b> 14:54	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-5	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-4	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 64.7 <b>Ft</b>	<b>Length Surveyed</b> 64.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



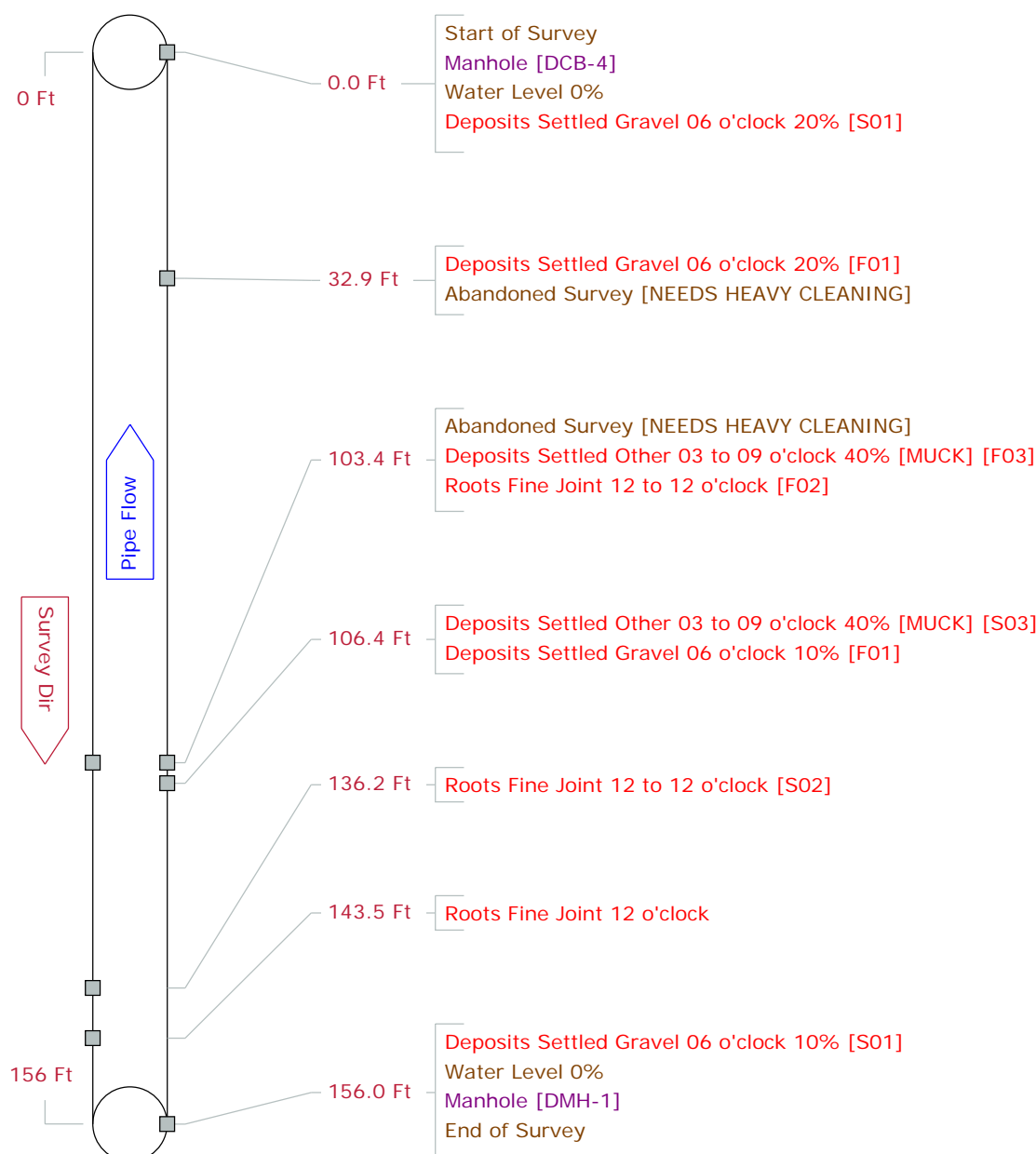
# Pipe Graphic Report of PLR DMH-1 X for WOODARD & CURRAN

<b>Setup</b> 33/34	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/07	<b>Time</b> 15:09	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-1	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-4	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 156.0 <b>Ft</b>	<b>Length Surveyed</b> 52.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DMH-1 X for WOODARD & CURRAN

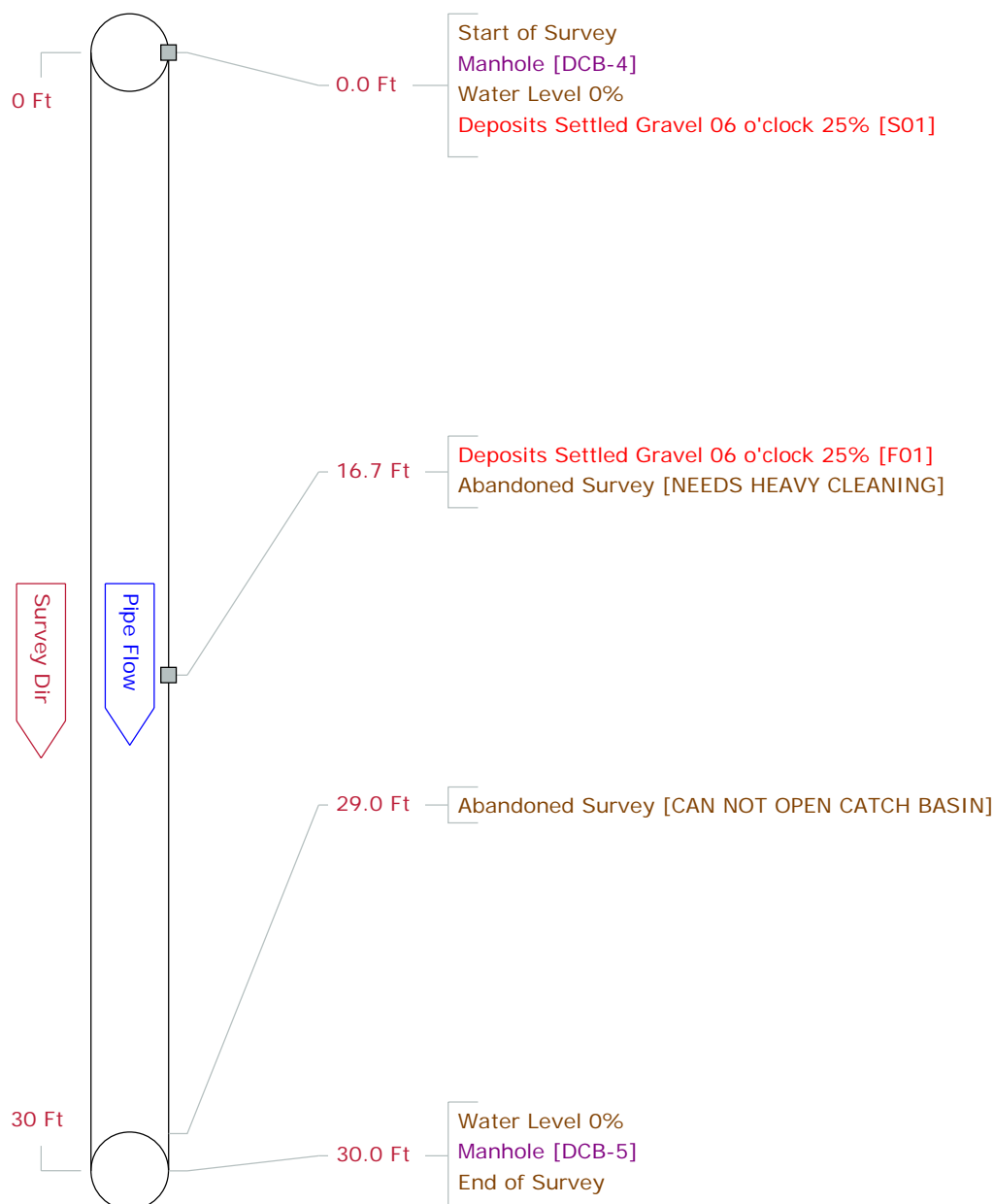
<b>Setup</b> 34/33	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/07	<b>Time</b> 3:18	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-4	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-1	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 156.0 <b>Ft</b>	<b>Length Surveyed</b> 32.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:33		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





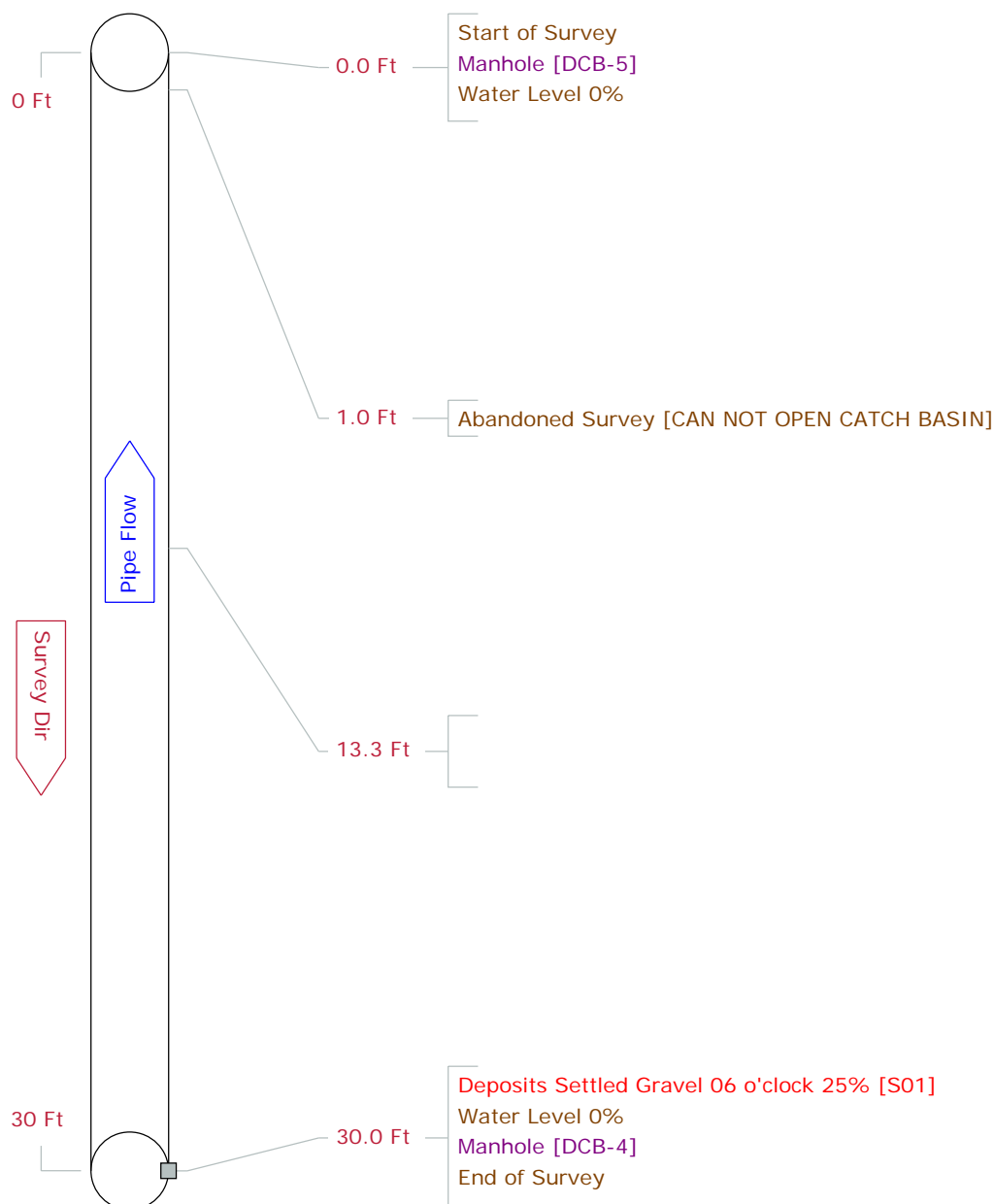
# Pipe Graphic Report of PLR DCB-4 X for WOODARD & CURRAN

<b>Setup</b> 35/36	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/08	<b>Time</b> 10:28	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-4	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-5	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 30.0 <b>Ft</b>	<b>Length Surveyed</b> 16.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



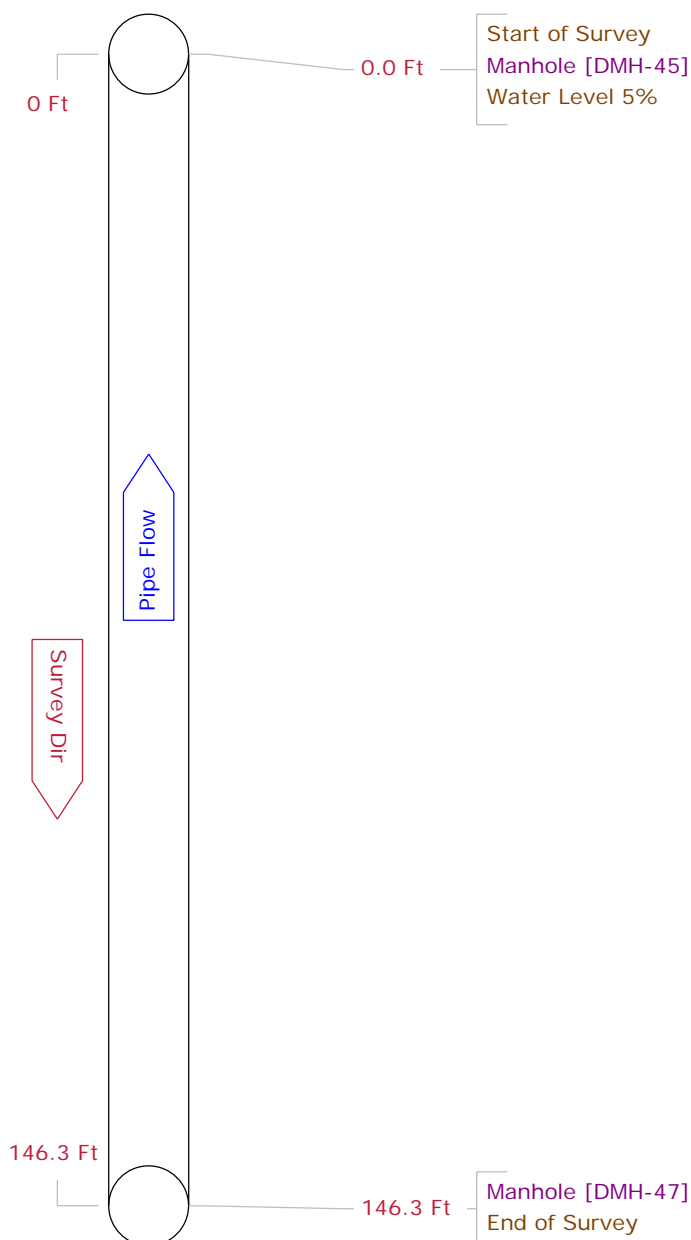
# Pipe Graphic Report of PLR DCB-4 X for WOODARD & CURRAN

<b>Setup</b> 36/35	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/08	<b>Time</b> 10:28	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-5	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-4	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 30.0 <b>Ft</b>	<b>Length Surveyed</b> 01.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:35		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



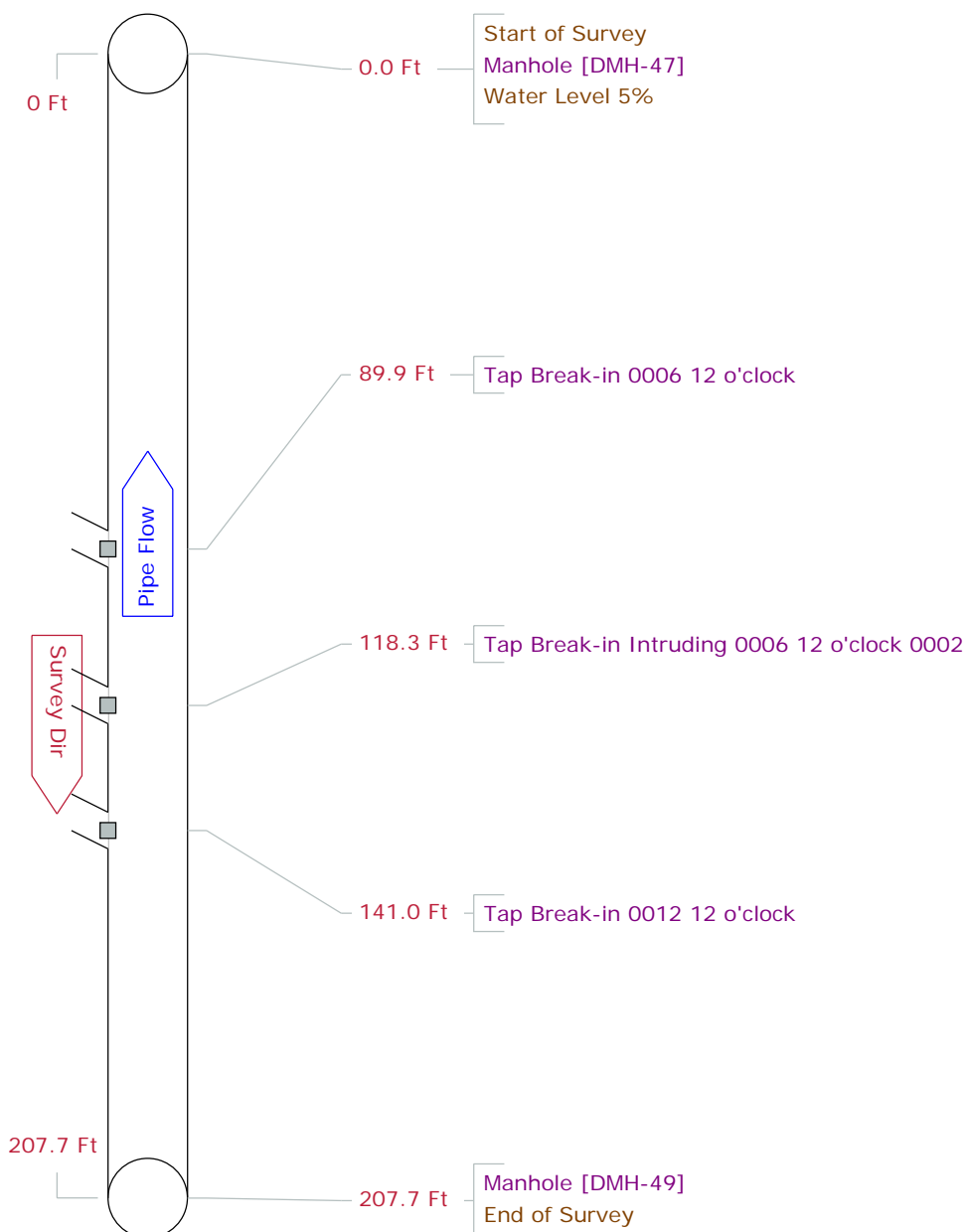
# Pipe Graphic Report of PLR DMH-47 X for WOODARD & CURRAN

<b>Setup</b> 37	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/08	<b>Time</b> 15:08	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-45	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-47	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 30	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 146.3	<b>Ft</b> <b>Length Surveyed</b> 146.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



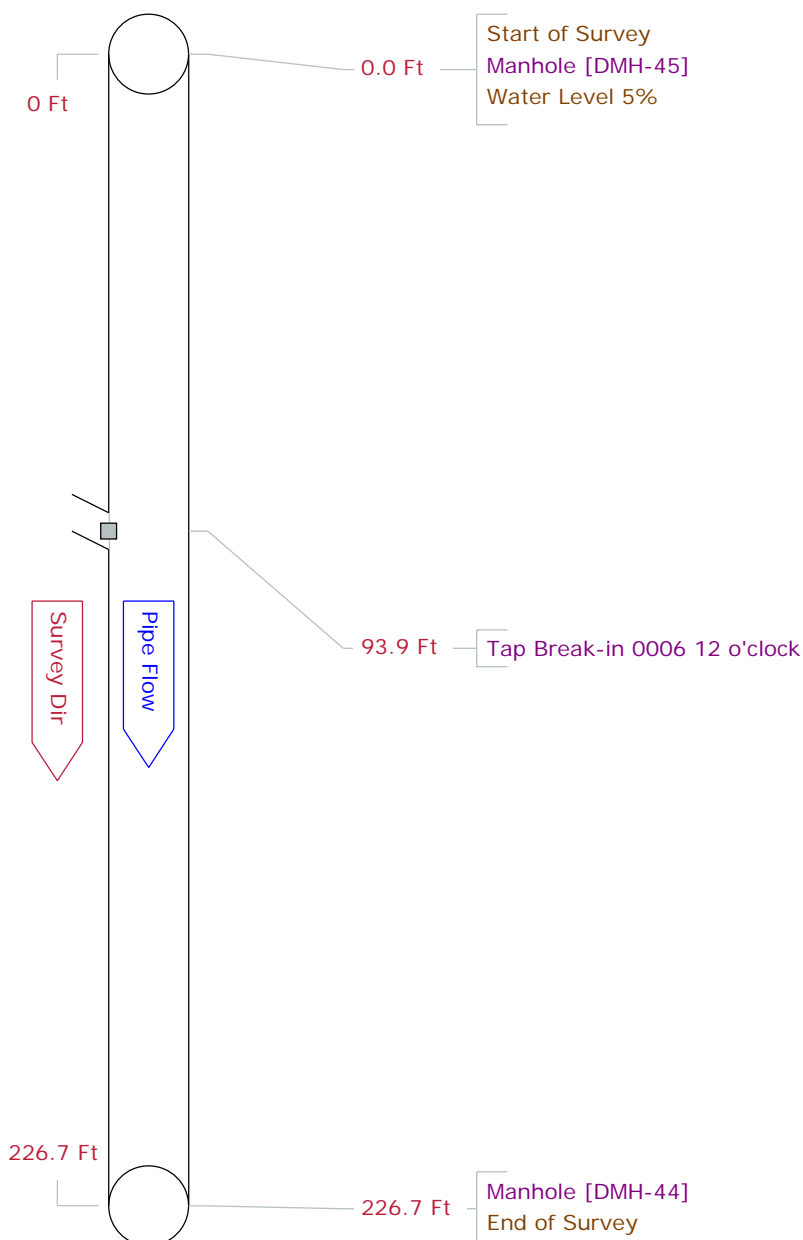
# Pipe Graphic Report of PLR DMH-49 X for WOODARD & CURRAN

<b>Setup</b> 38	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/08	<b>Time</b> 15:15	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-47	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-49	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 30	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 207.7 <b>Ft</b>	<b>Length Surveyed</b> 207.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



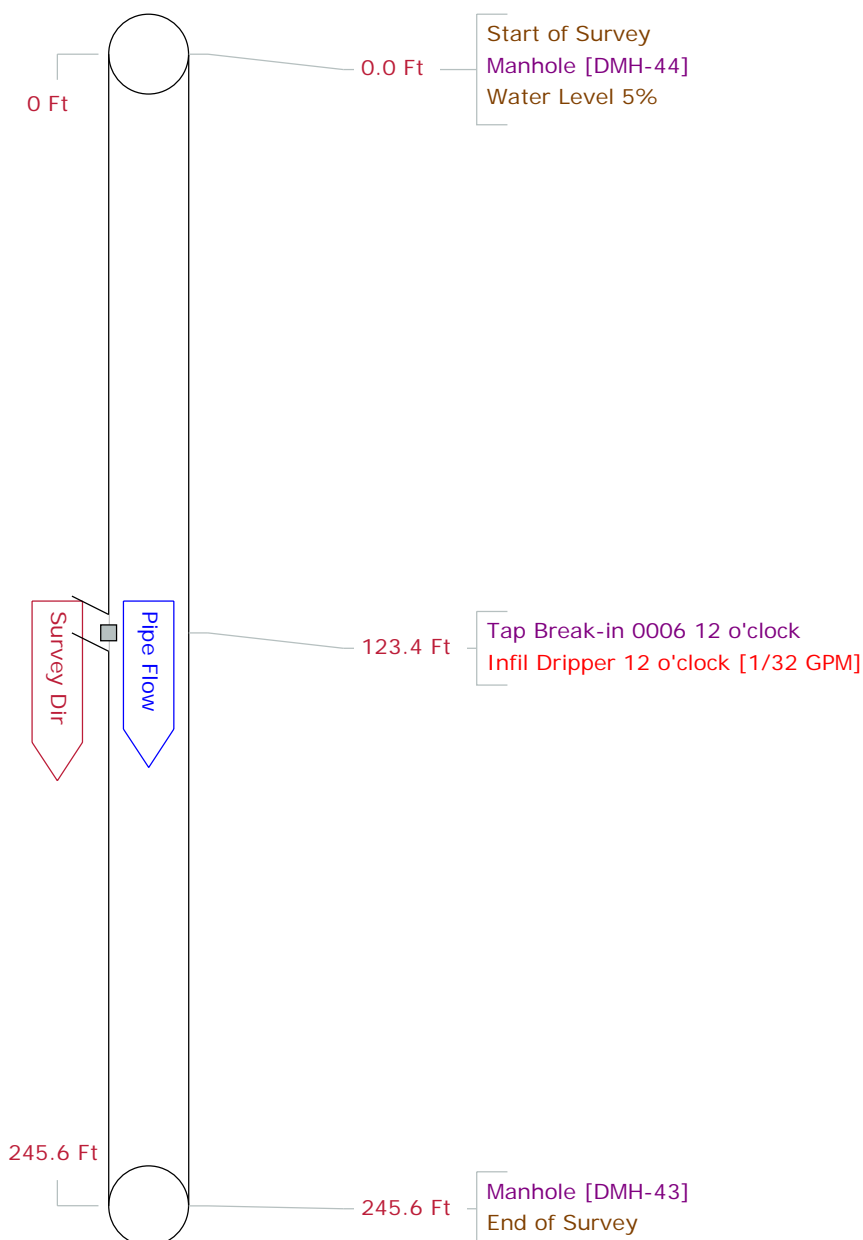
# Pipe Graphic Report of PLR DMH-45 X for WOODARD & CURRAN

<b>Setup</b> 39	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/08	<b>Time</b> 15:27	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-45	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-44	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 30	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 226.7 <b>Ft</b>	<b>Length Surveyed</b> 226.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



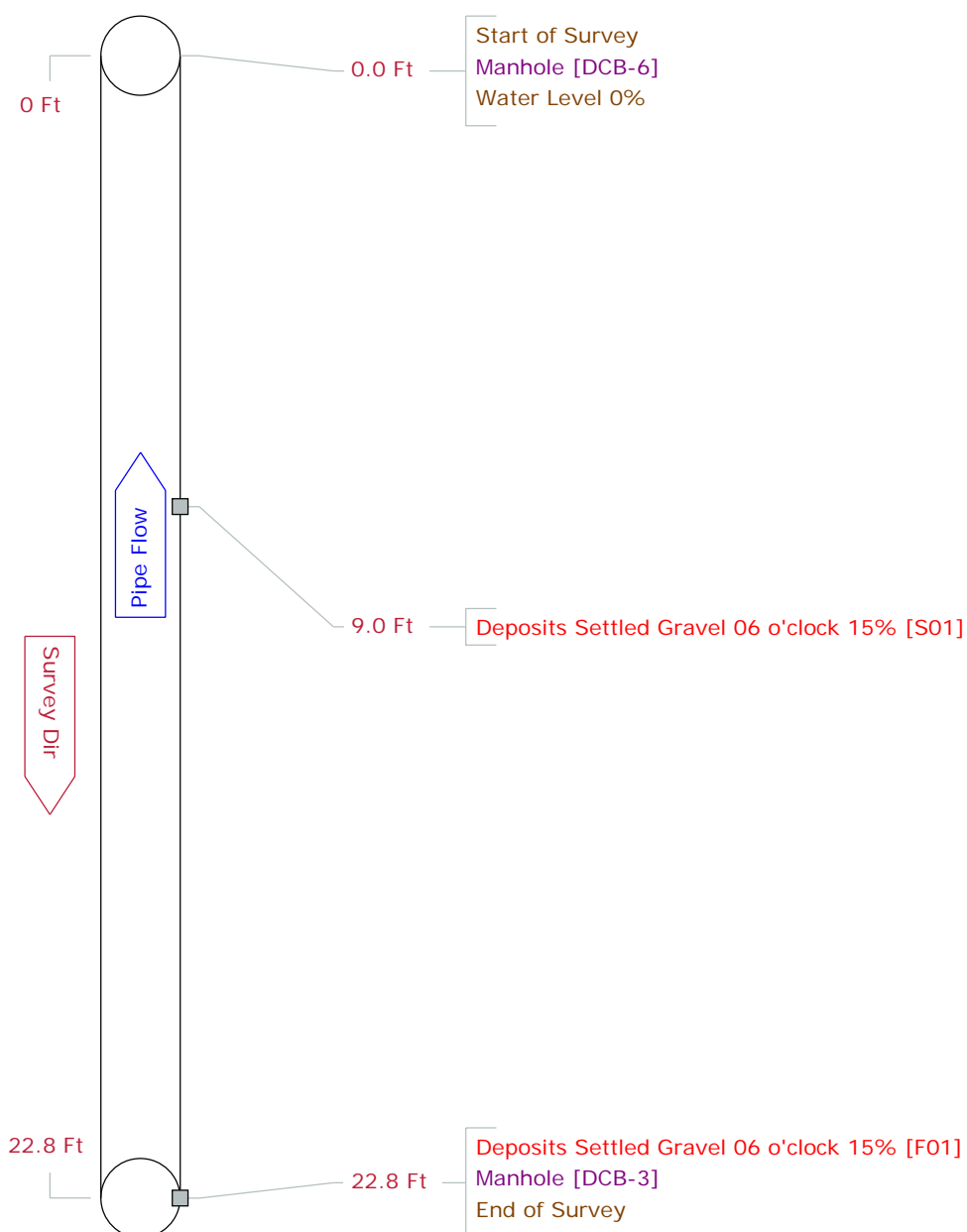
# Pipe Graphic Report of PLR DMH-44 X for WOODARD & CURRAN

<b>Setup</b> 40	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/08	<b>Time</b> 15:35	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-44	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-43	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 30	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 245.6 <b>Ft</b>	<b>Length Surveyed</b> 245.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



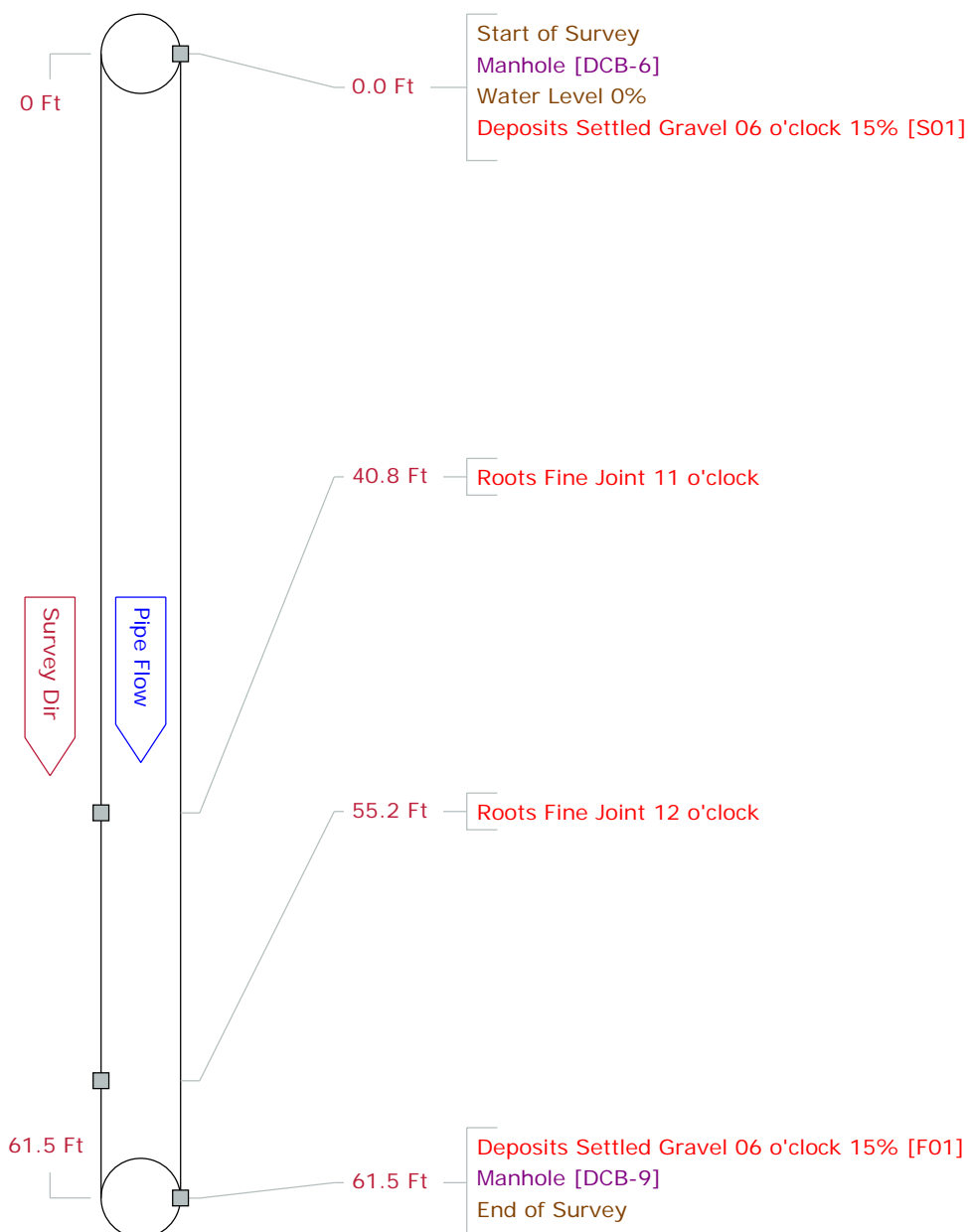
# Pipe Graphic Report of PLR DCB-3 X for WOODARD & CURRAN

<b>Setup</b> 41	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 8:25	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-6	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-3	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 22.8 <b>Ft</b>	<b>Length Surveyed</b> 22.80
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-6 X for WOODARD & CURRAN

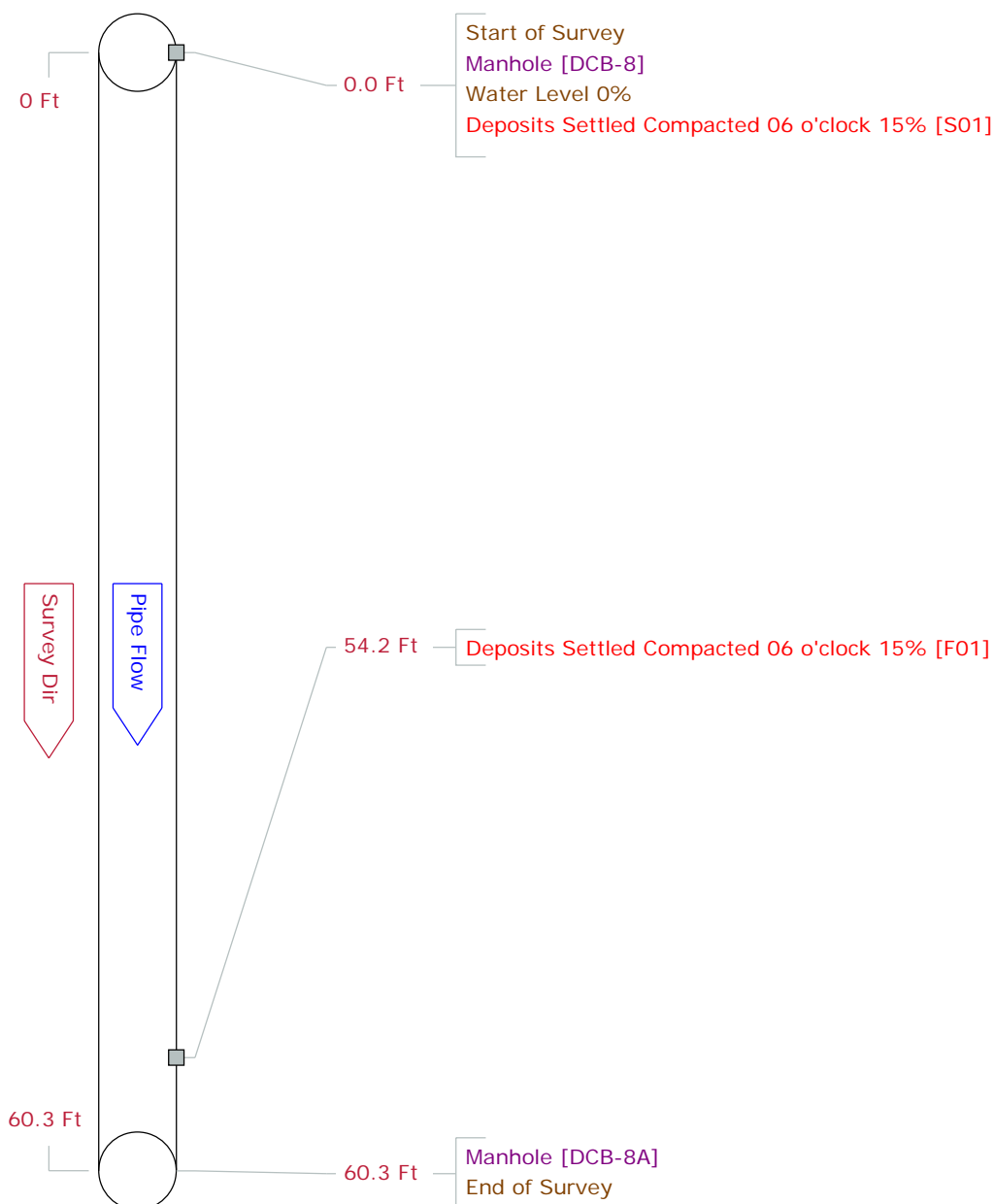
<b>Setup</b> 42	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 8:31	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-6	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-9	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 61.5 <b>Ft</b>	<b>Length Surveyed</b> 61.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





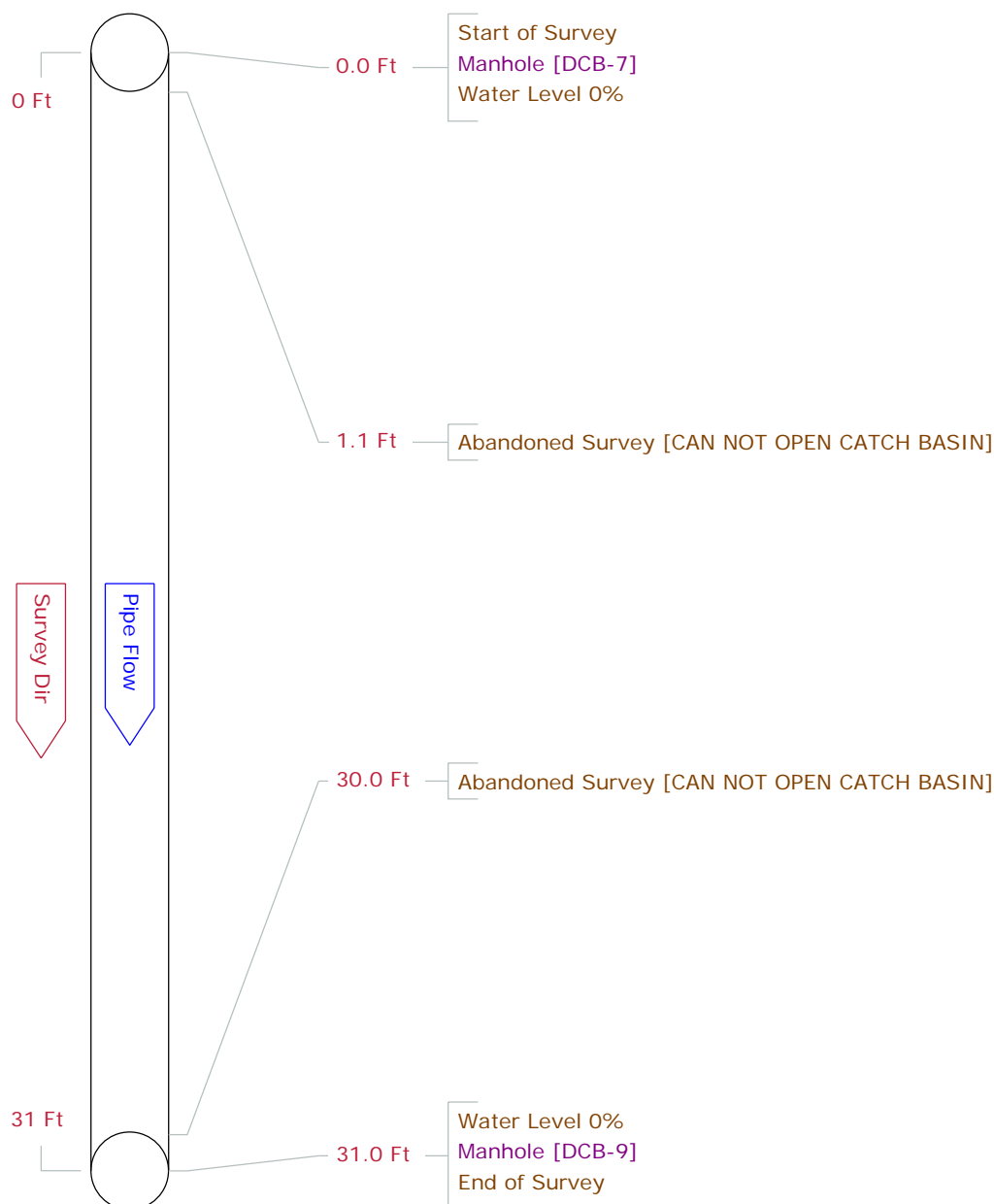
# Pipe Graphic Report of PLR DCB-8 X for WOODARD & CURRAN

<b>Setup</b> 43	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 8:52	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-8	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-8A	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 60.3 <b>Ft</b>	<b>Length Surveyed</b> 60.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



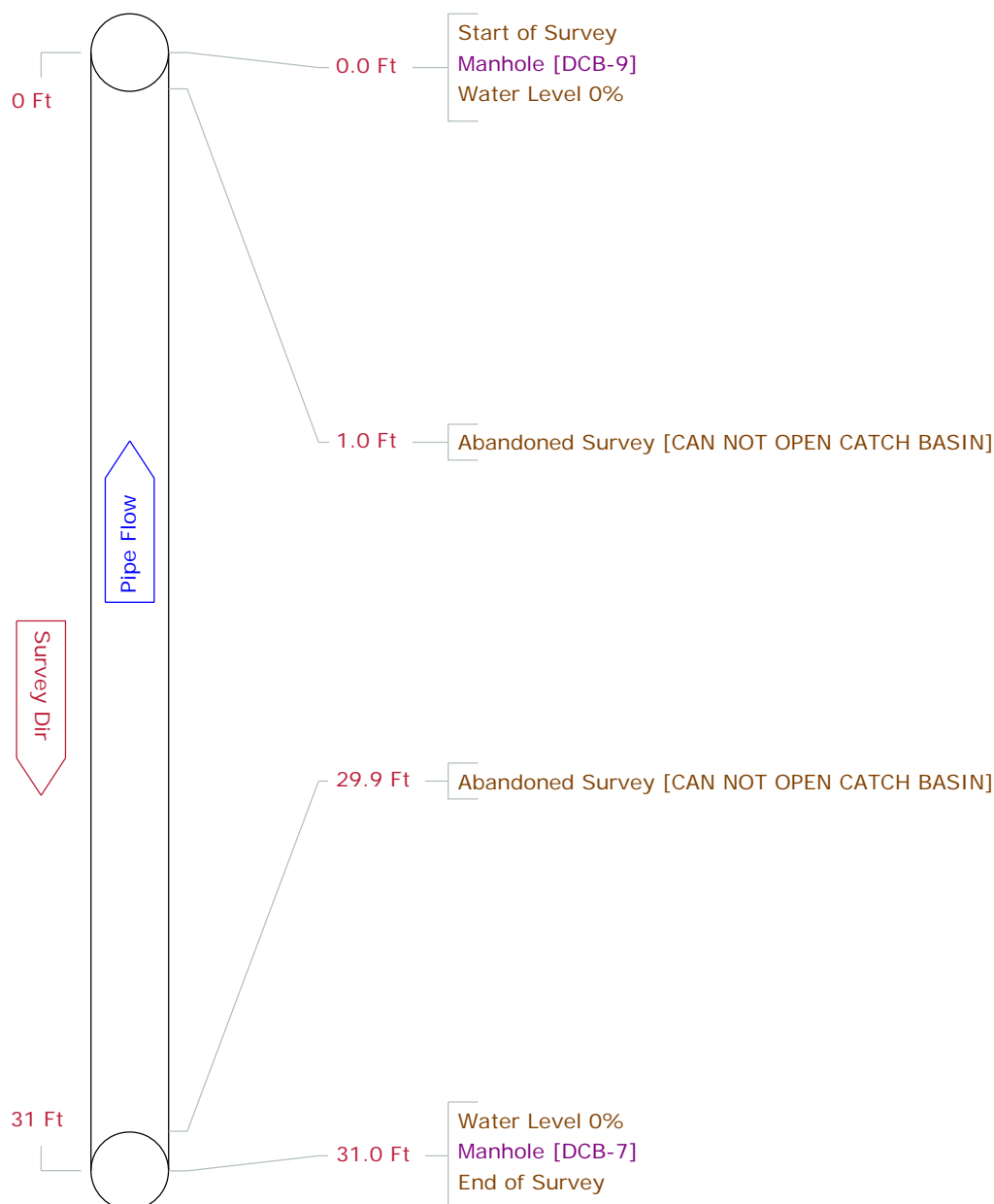
# Pipe Graphic Report of PLR DCB-7 X for WOODARD & CURRAN

<b>Setup</b> 44/45	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 9:09	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-7	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-9	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 31.0 <b>Ft</b>	<b>Length Surveyed</b> 01.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



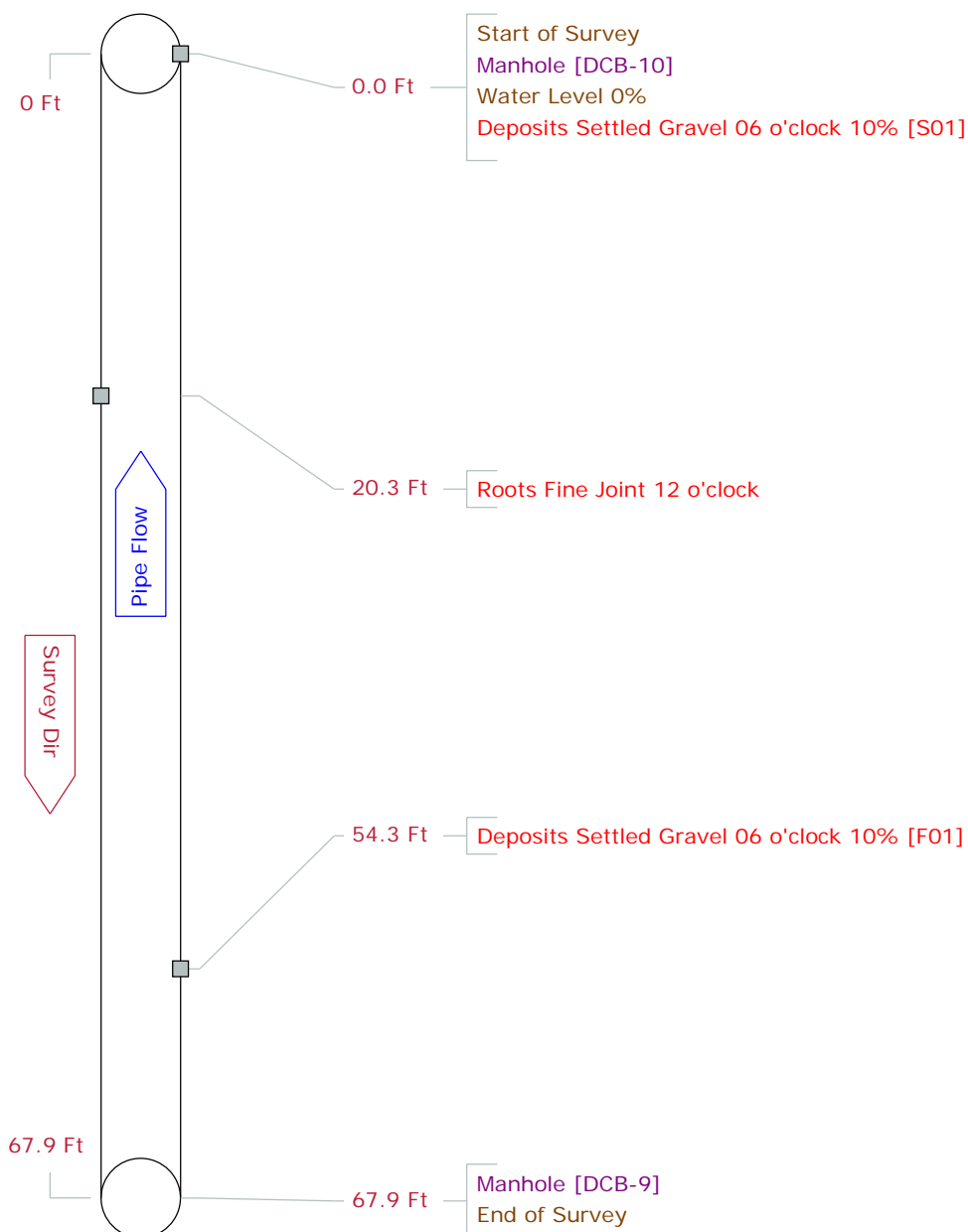
# Pipe Graphic Report of PLR DCB-7 X for WOODARD & CURRAN

<b>Setup</b> 45/44	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 9:12	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-9	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-7	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 31.0 <b>Ft</b>	<b>Length Surveyed</b> 01.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:44		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



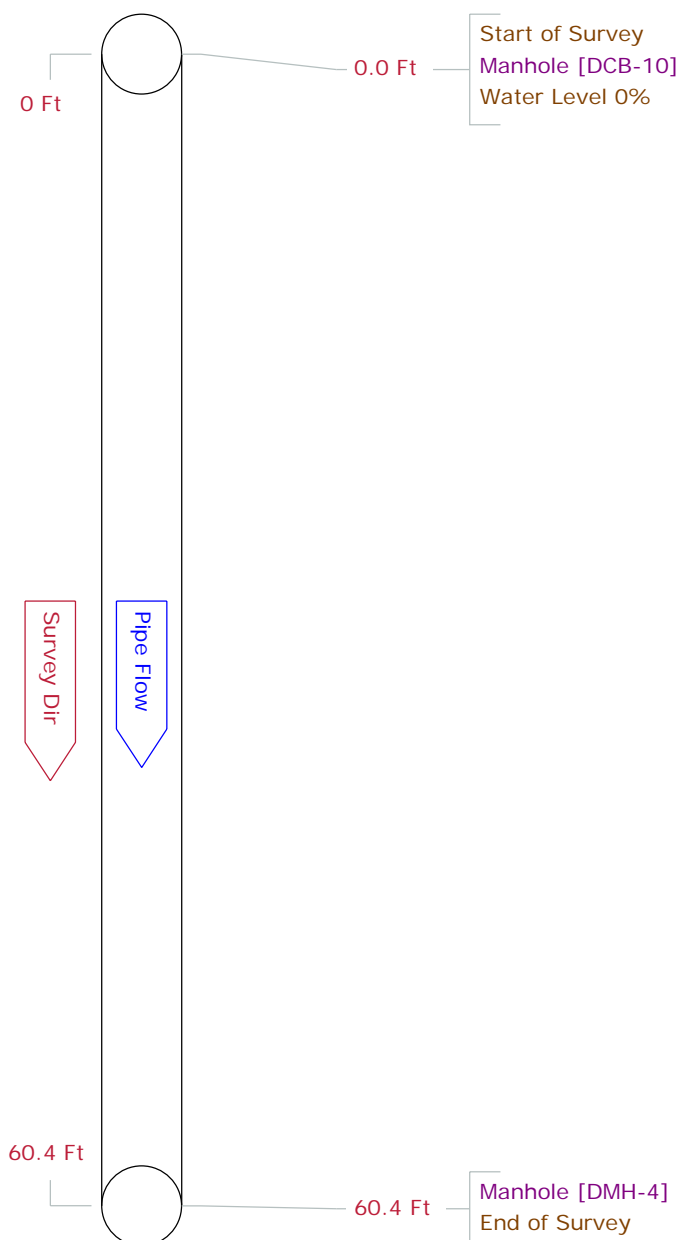
# Pipe Graphic Report of PLR DCB-9 X for WOODARD & CURRAN

<b>Setup</b> 46	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 9:19	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-10	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-9	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 67.9 <b>Ft</b>	<b>Length Surveyed</b> 67.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



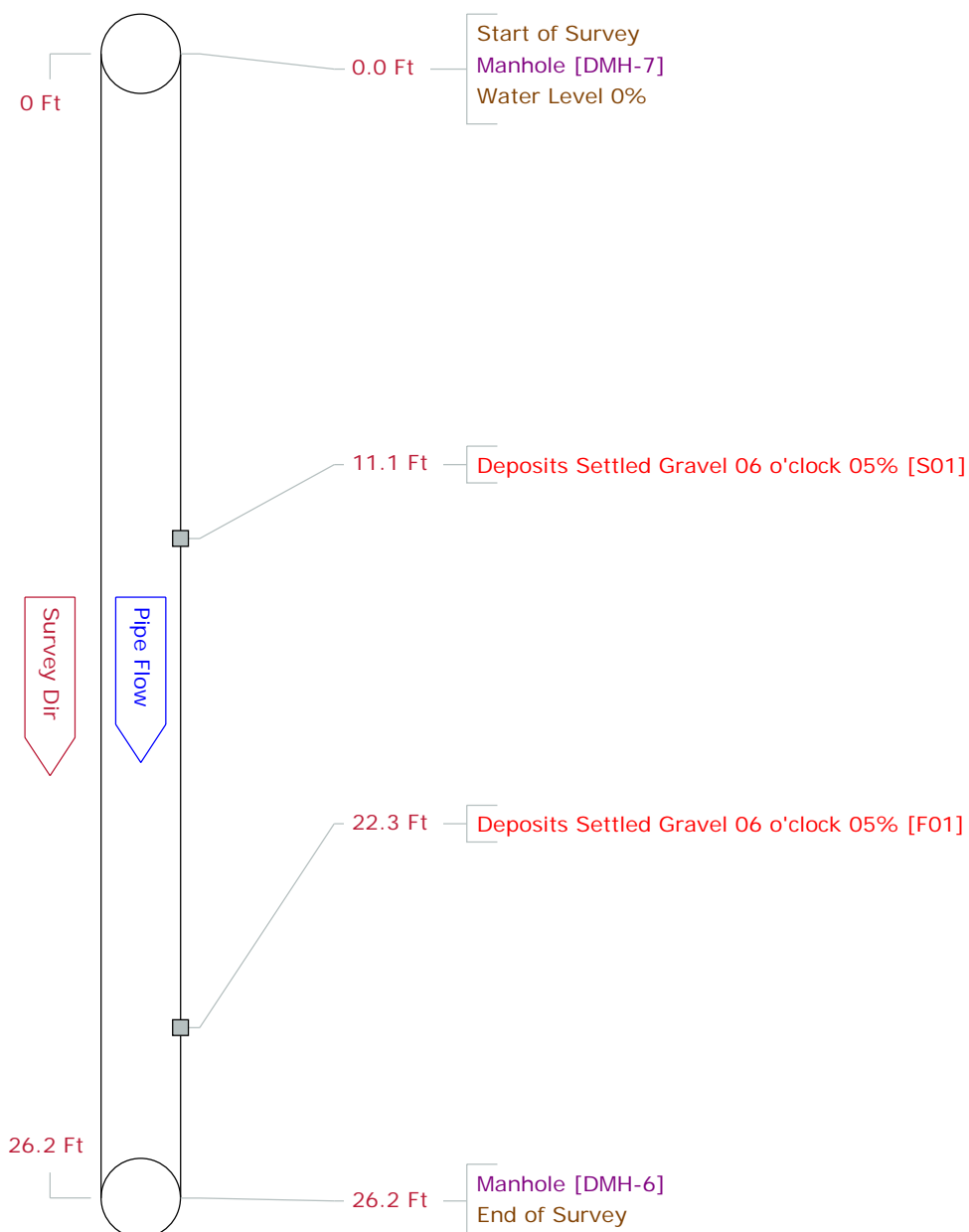
# Pipe Graphic Report of PLR DCB-5 X for WOODARD & CURRAN

<b>Setup</b> 47	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 9:24	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-10	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-4	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 60.4 <b>Ft</b>	<b>Length Surveyed</b> 60.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



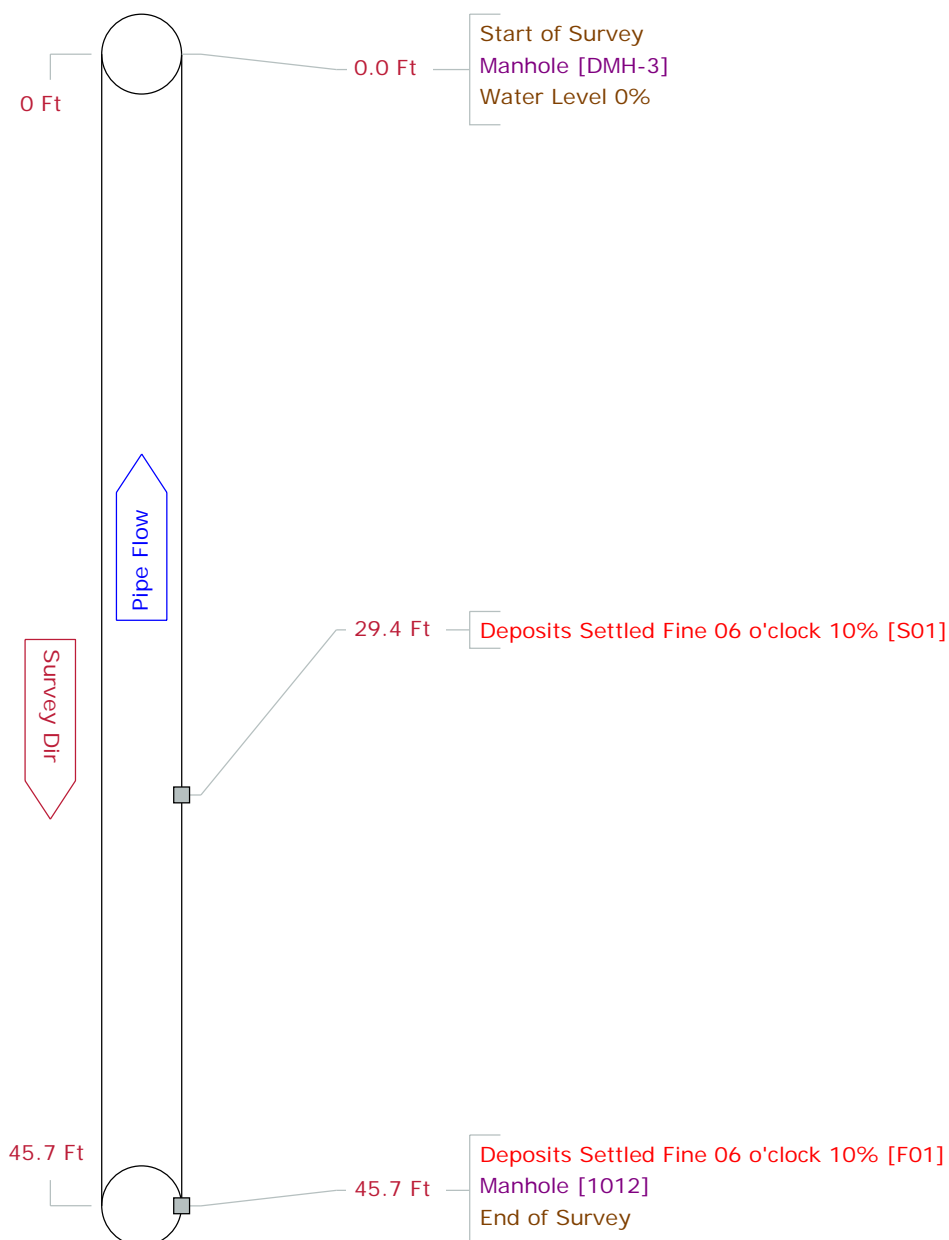
# Pipe Graphic Report of PLR DMH-7 X for WOODARD & CURRAN

<b>Setup</b> 48	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 9:40	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-7	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-6	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 26.2 <b>Ft</b>	<b>Length Surveyed</b> 26.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



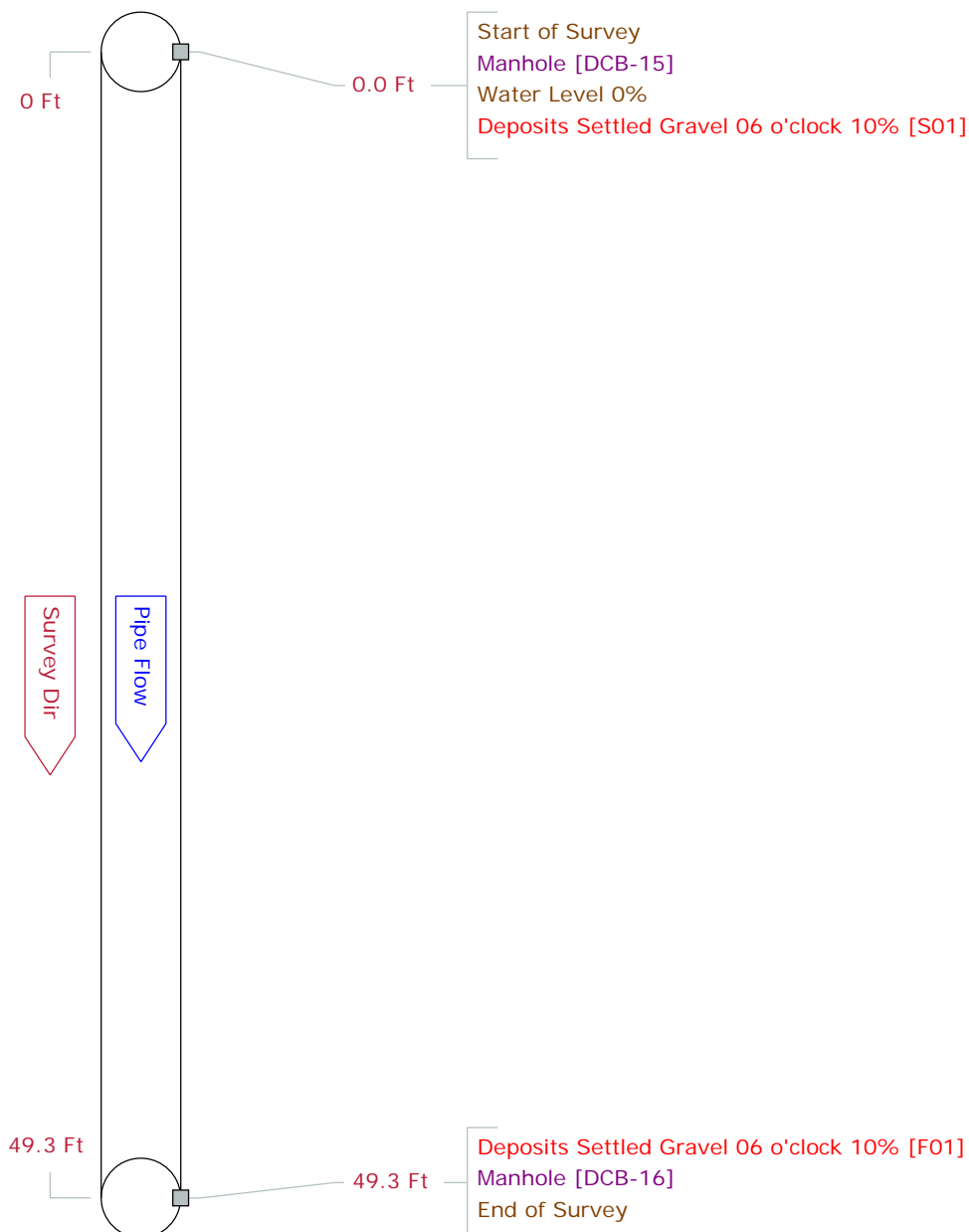
# Pipe Graphic Report of PLR 1012 X for WOODARD & CURRAN

<b>Setup</b> 49	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 9:52	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-3	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> 1012	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 45.7 <b>Ft</b>	<b>Length Surveyed</b> 45.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-15 W for WOODARD & CURRAN

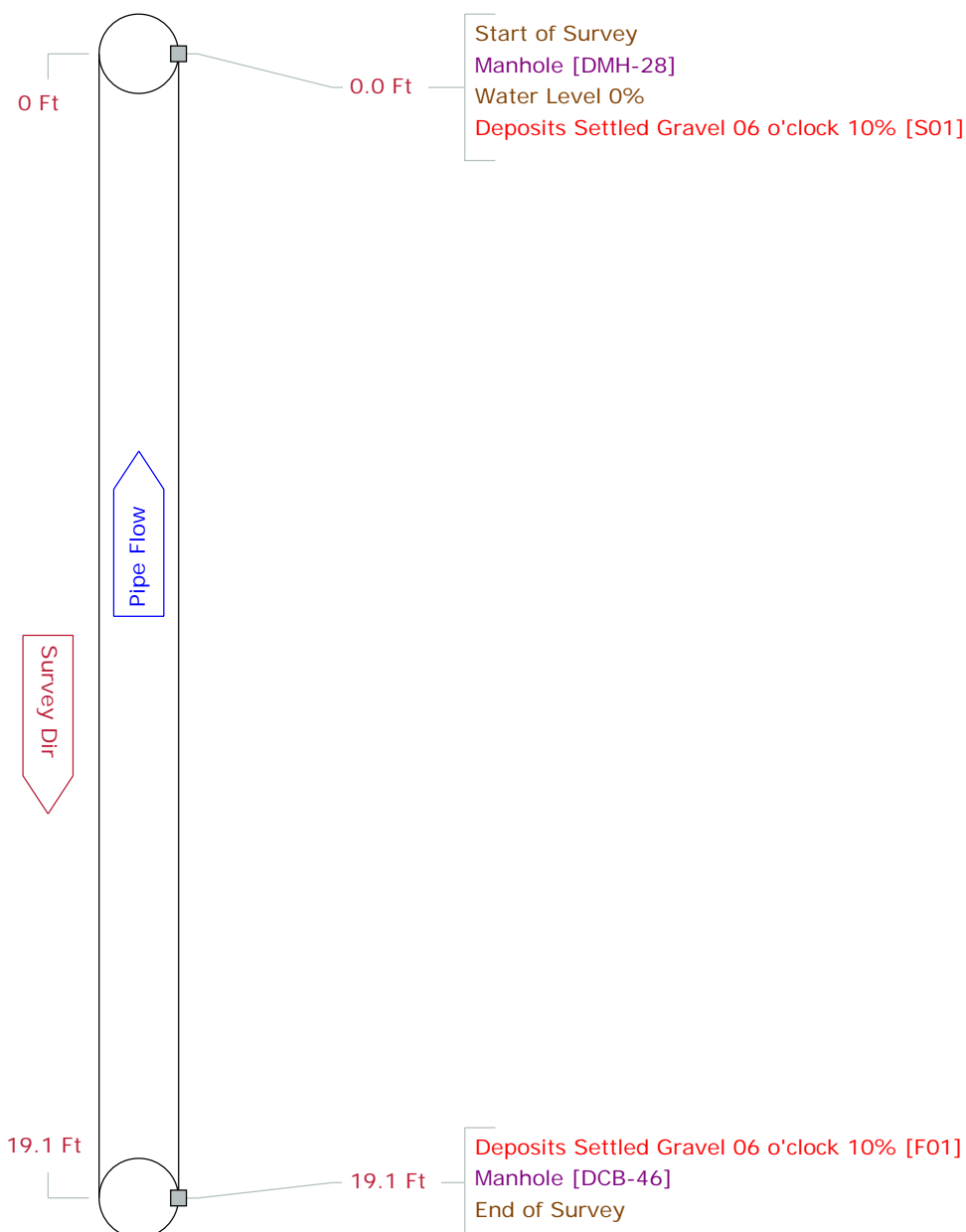
<b>Setup</b> 50	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 10:11	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-15	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-16	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 49.3 <b>Ft</b>	<b>Length Surveyed</b> 49.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





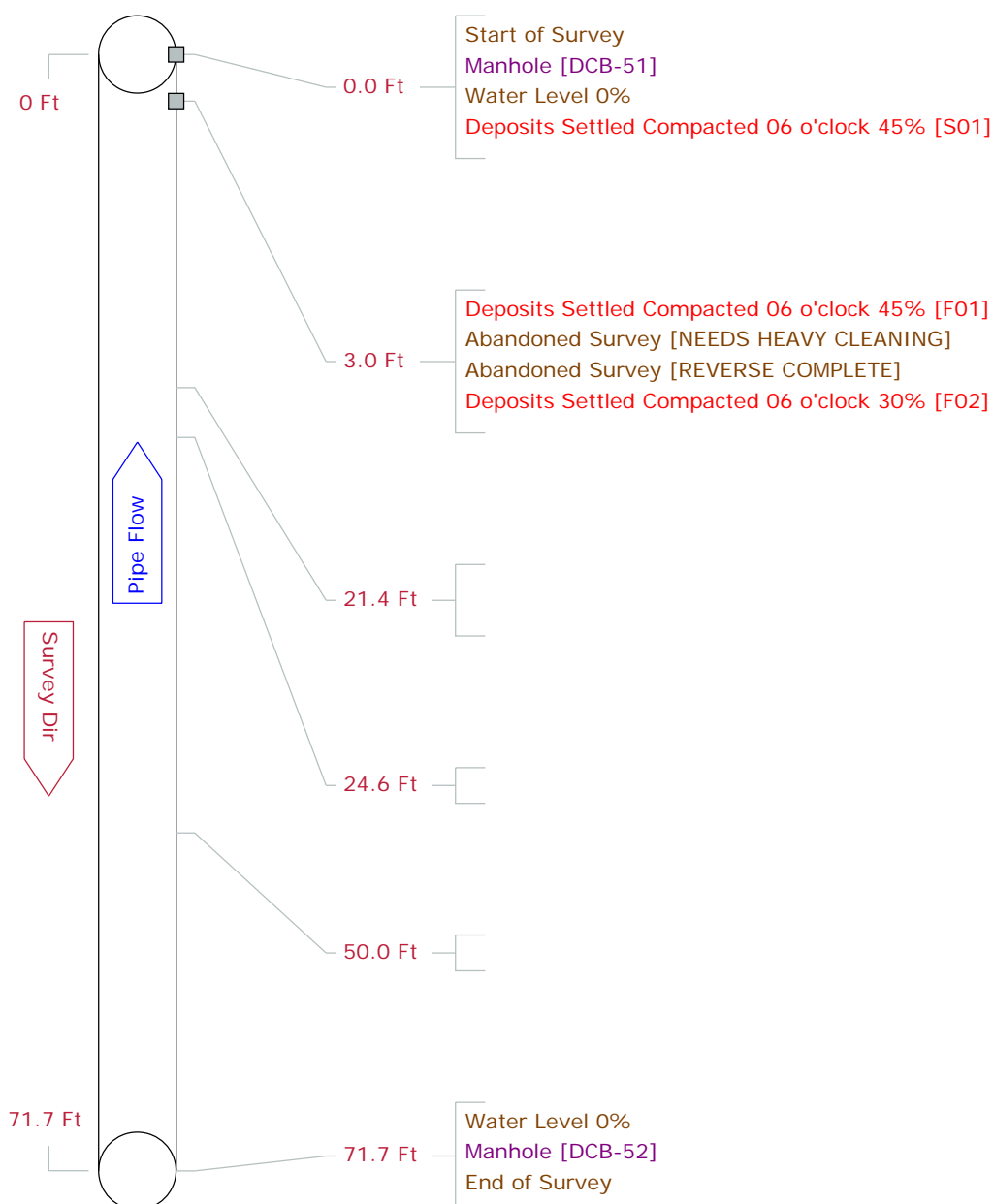
# Pipe Graphic Report of PLR DCB-46 W for WOODARD & CURRAN

<b>Setup</b> 51	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 10:23	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-28	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-46	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 19.1 <b>Ft</b>	<b>Length Surveyed</b> 19.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



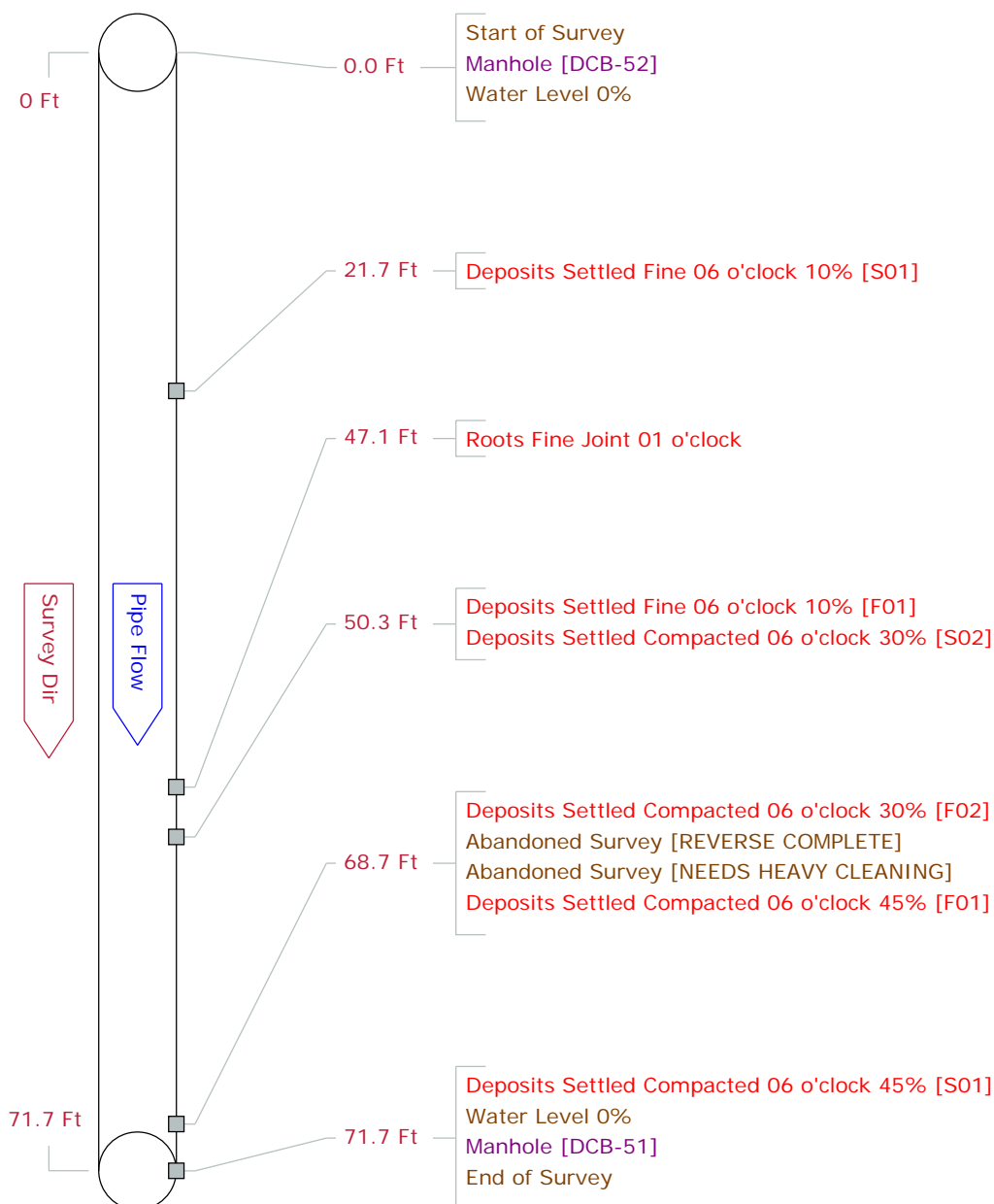
# Pipe Graphic Report of PLR DCB-52 W for WOODARD & CURRAN

<b>Setup</b> 52/53	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 10:38	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-51	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-52	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 71.7 <b>Ft</b>	<b>Length Surveyed</b> 03.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



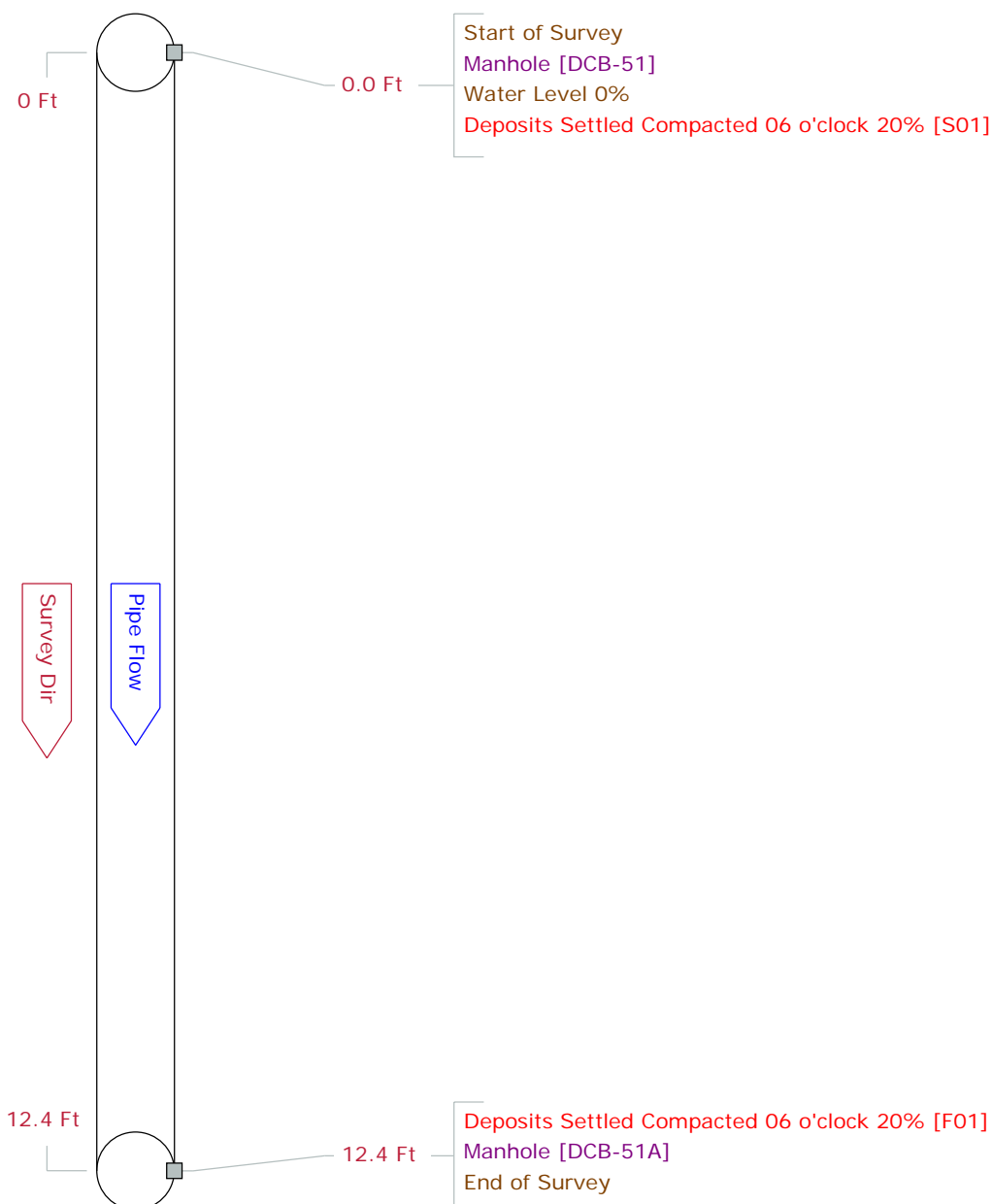
# Pipe Graphic Report of PLR DCB-52 W for WOODARD & CURRAN

<b>Setup</b> 53/52	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 10:41	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-52	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-51	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 71.7 <b>Ft</b>	<b>Length Surveyed</b> 68.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:52		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



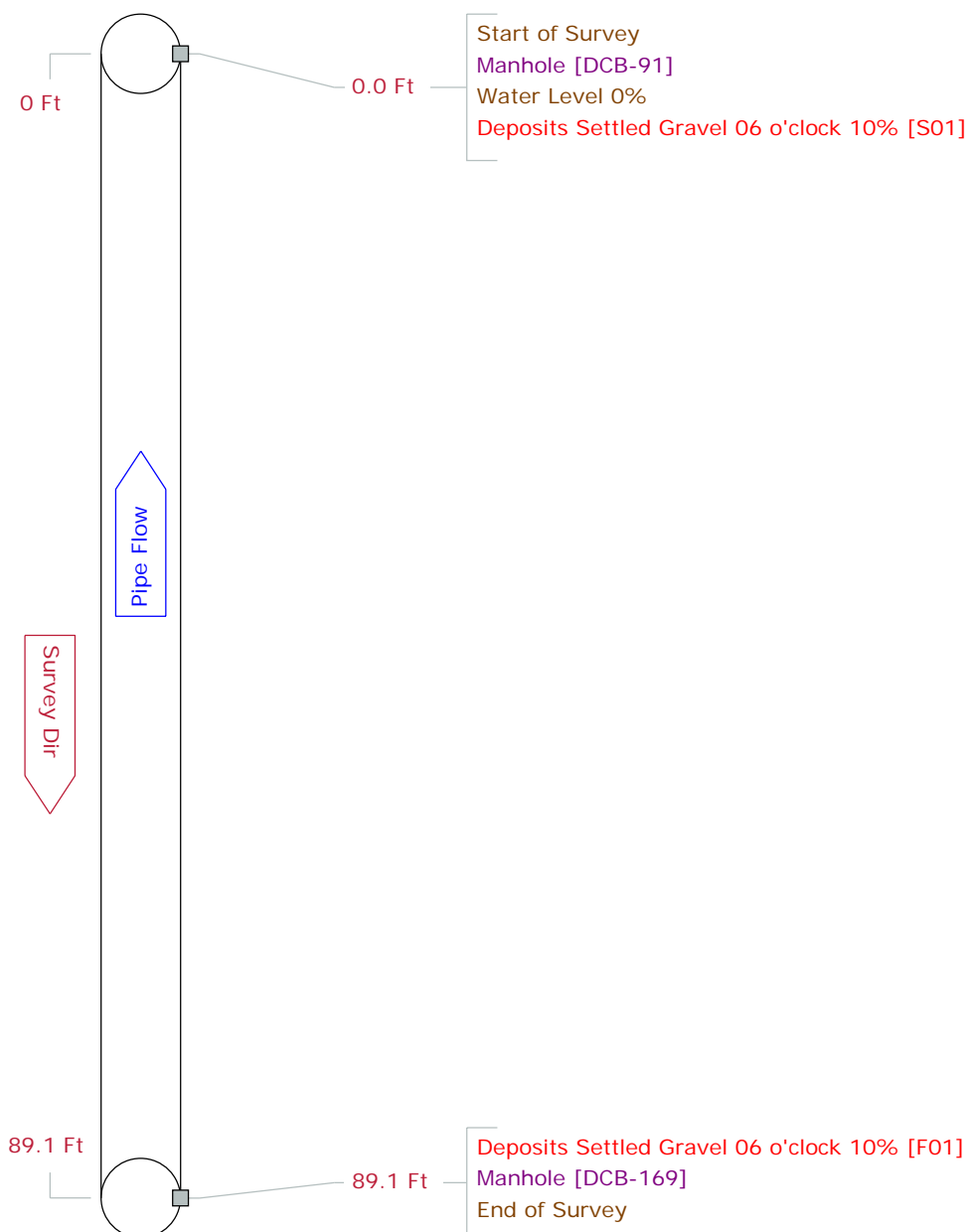
# Pipe Graphic Report of PLR DCB-51 W for WOODARD & CURRAN

<b>Setup</b> 54	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 10:41	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-51	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-49	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 12.4 <b>Ft</b>	<b>Length Surveyed</b> 12.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



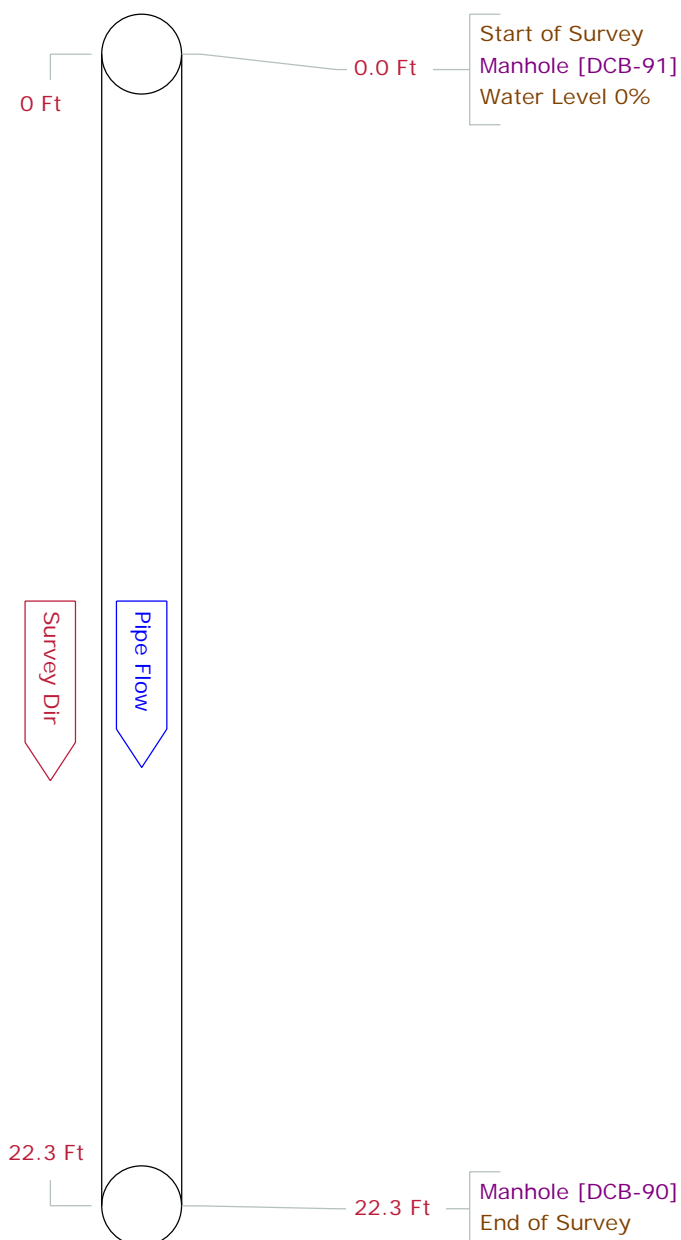
# Pipe Graphic Report of PLR DCB-169 W for WOODARD & CURRAN

<b>Setup</b> 55	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 11:06	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-91	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-164	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 89.1 <b>Ft</b>	<b>Length Surveyed</b> 89.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



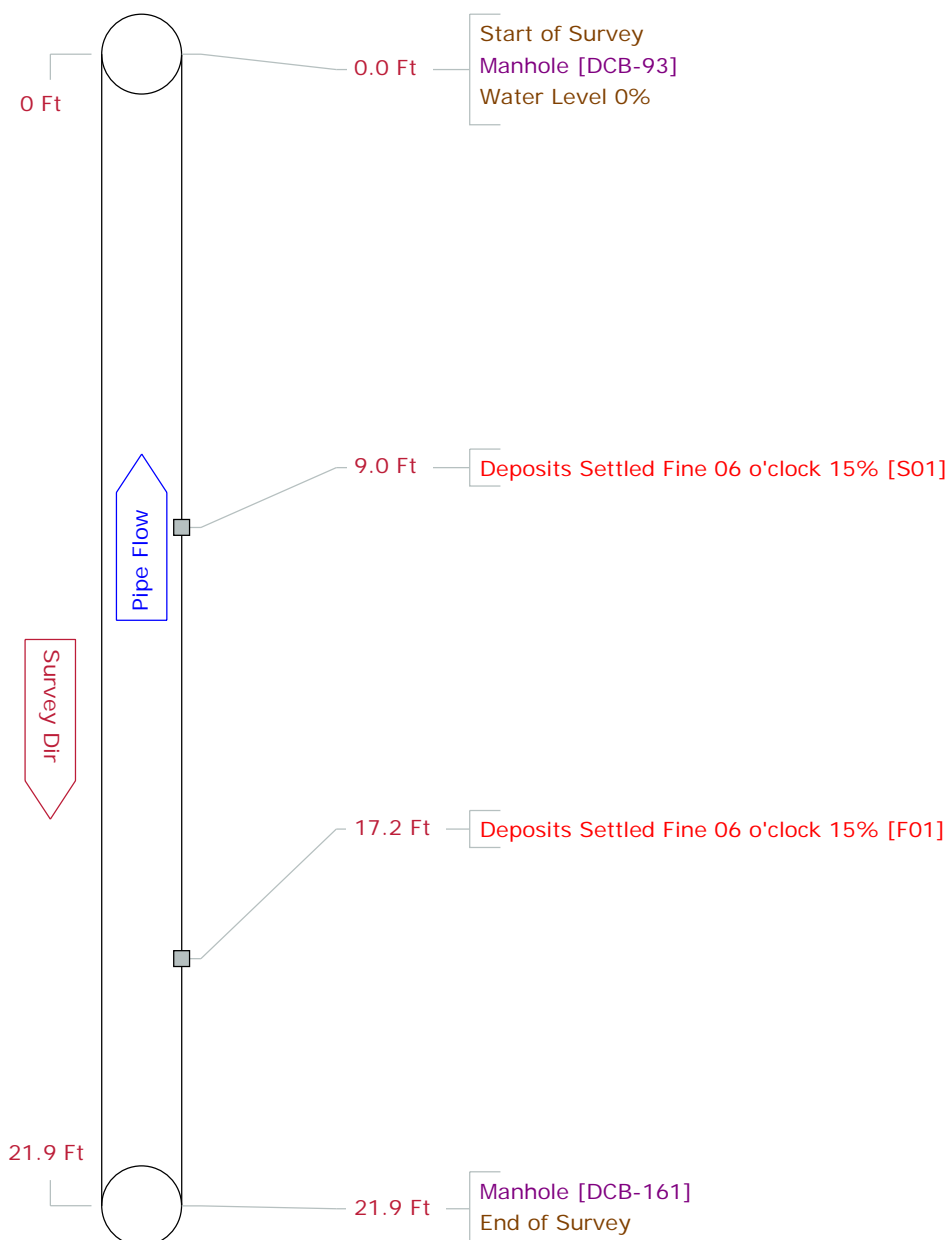
# Pipe Graphic Report of PLR DCB-91 W for WOODARD & CURRAN

<b>Setup</b> 56	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 11:17	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-91	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-90	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 22.3 <b>Ft</b>	<b>Length Surveyed</b> 22.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-161 W for WOODARD & CURRAN

<b>Setup</b> 57	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 11:25	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-93	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-161	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 21.9 <b>Ft</b>	<b>Length Surveyed</b> 21.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-93 W for WOODARD & CURRAN

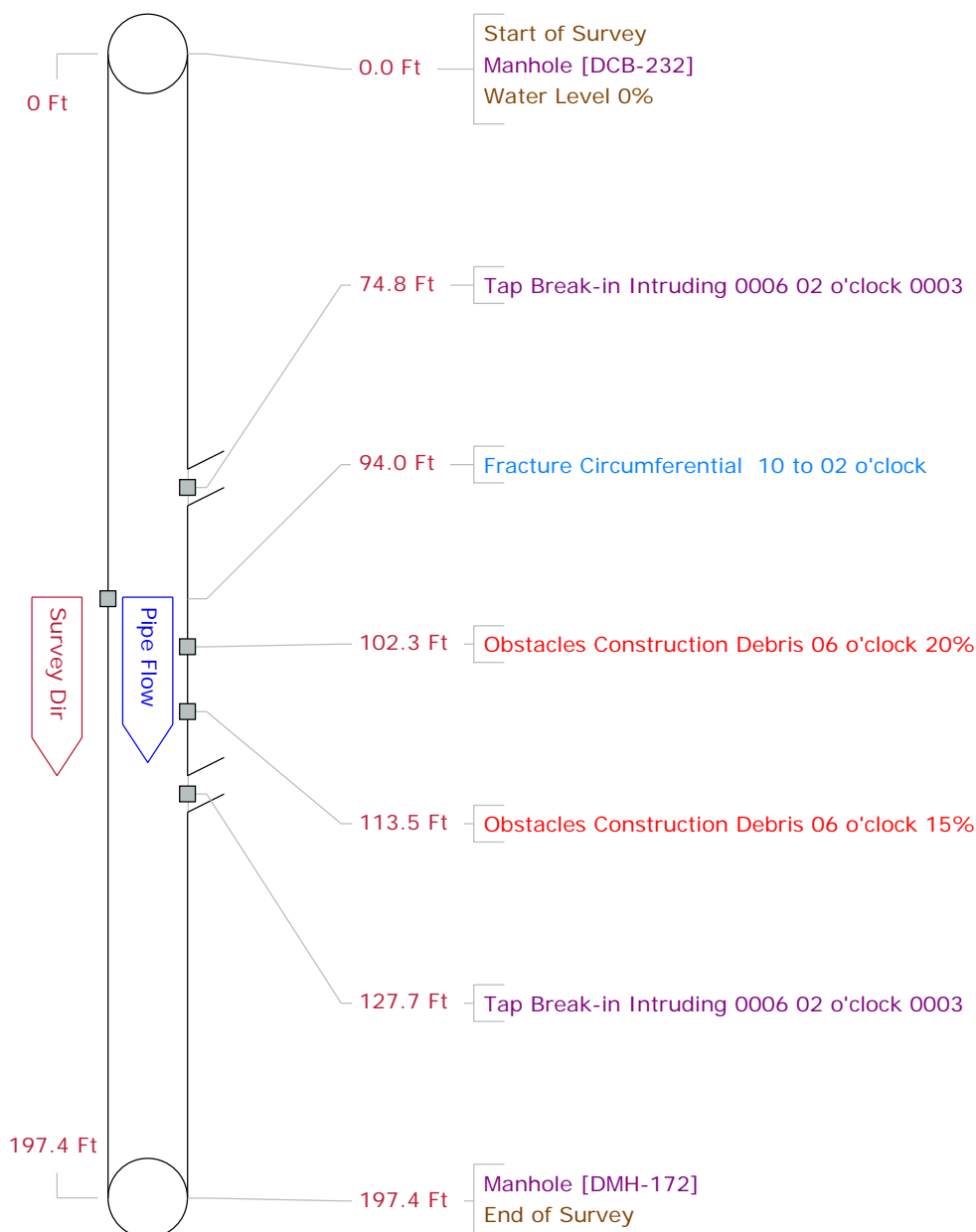
<b>Setup</b> 58	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 11:29	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-93	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-90	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 59.0	<b>Ft</b> <b>Length Surveyed</b> 59.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





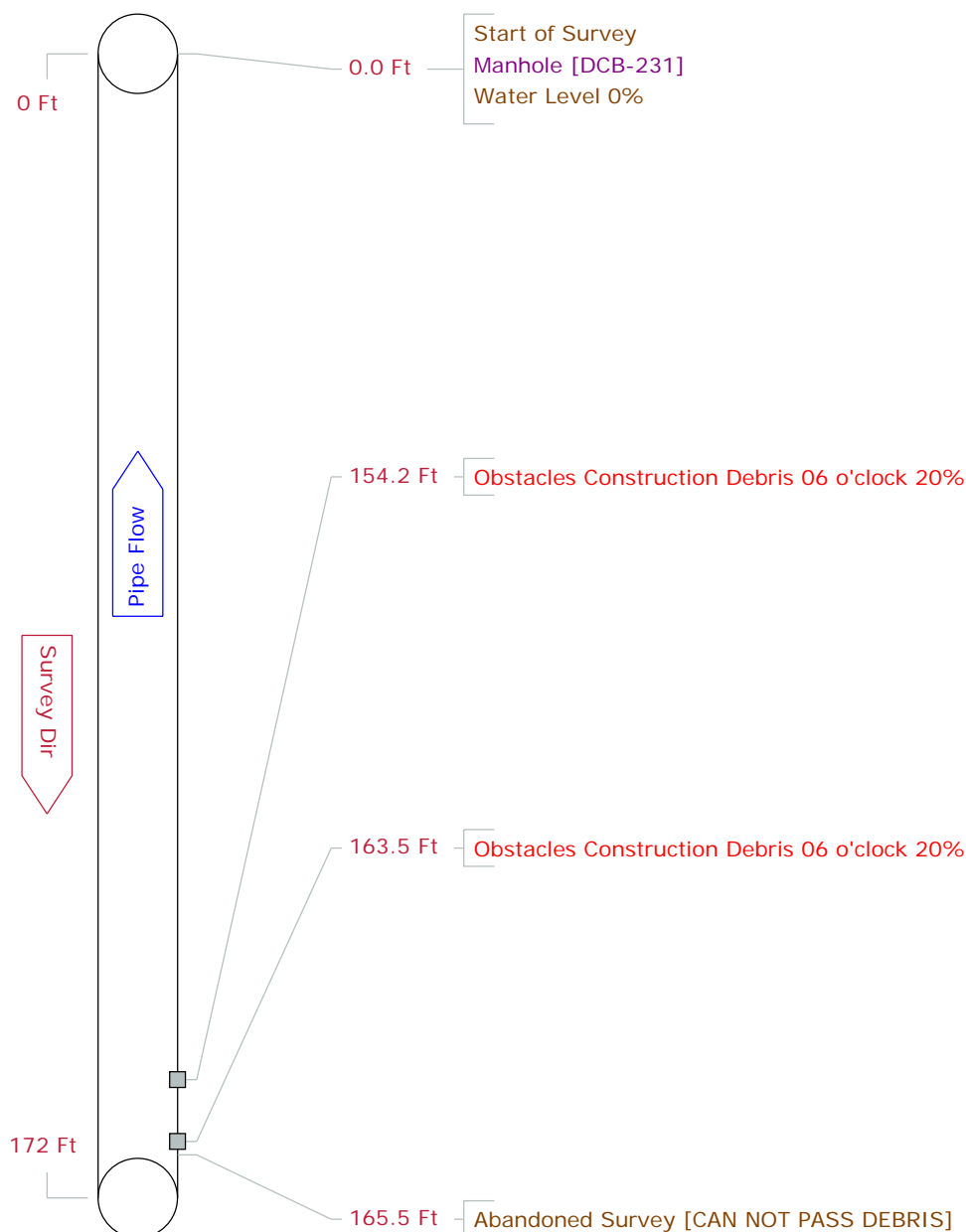
# Pipe Graphic Report of PLR DCB-232 W for WOODARD & CURRAN

<b>Setup</b> 59	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 12:58	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-232	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-172	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 18	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 197.4 <b>Ft</b>	<b>Length Surveyed</b> 197.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



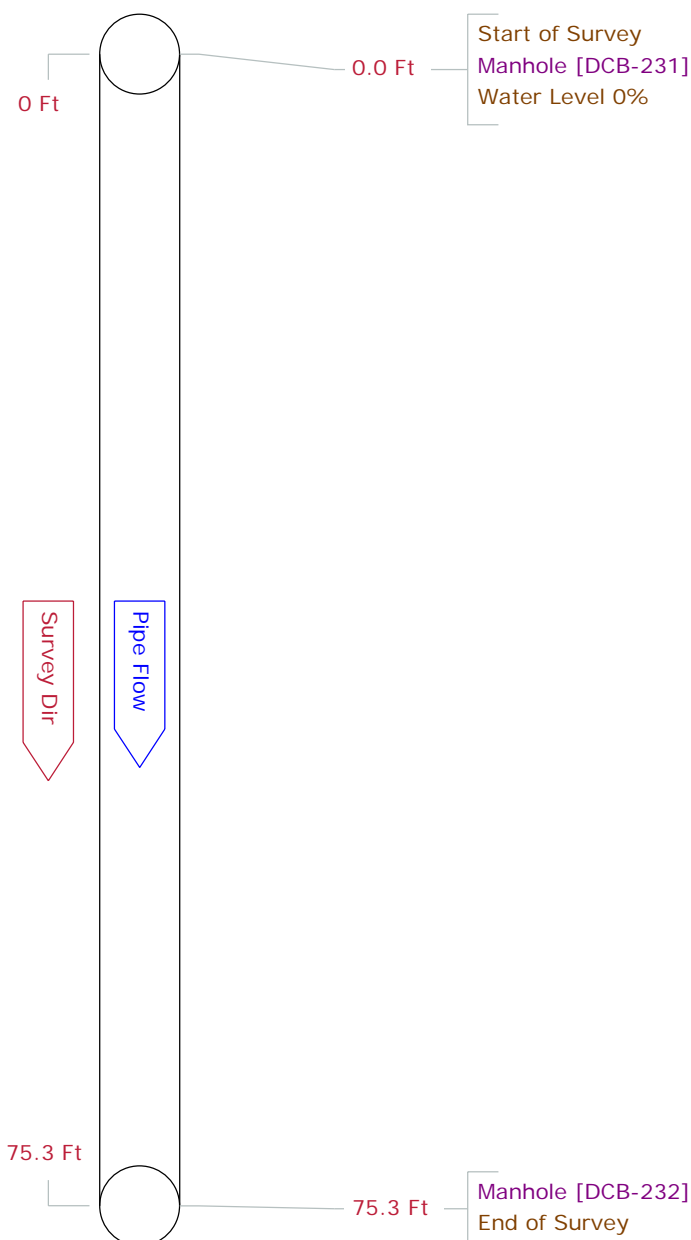
# Pipe Graphic Report of PLR DCB-229 W for WOODARD & CURRAN

<b>Setup</b> 60	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 13:34	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-231	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-229	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 172.0 <b>Ft</b>	<b>Length Surveyed</b> 165.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



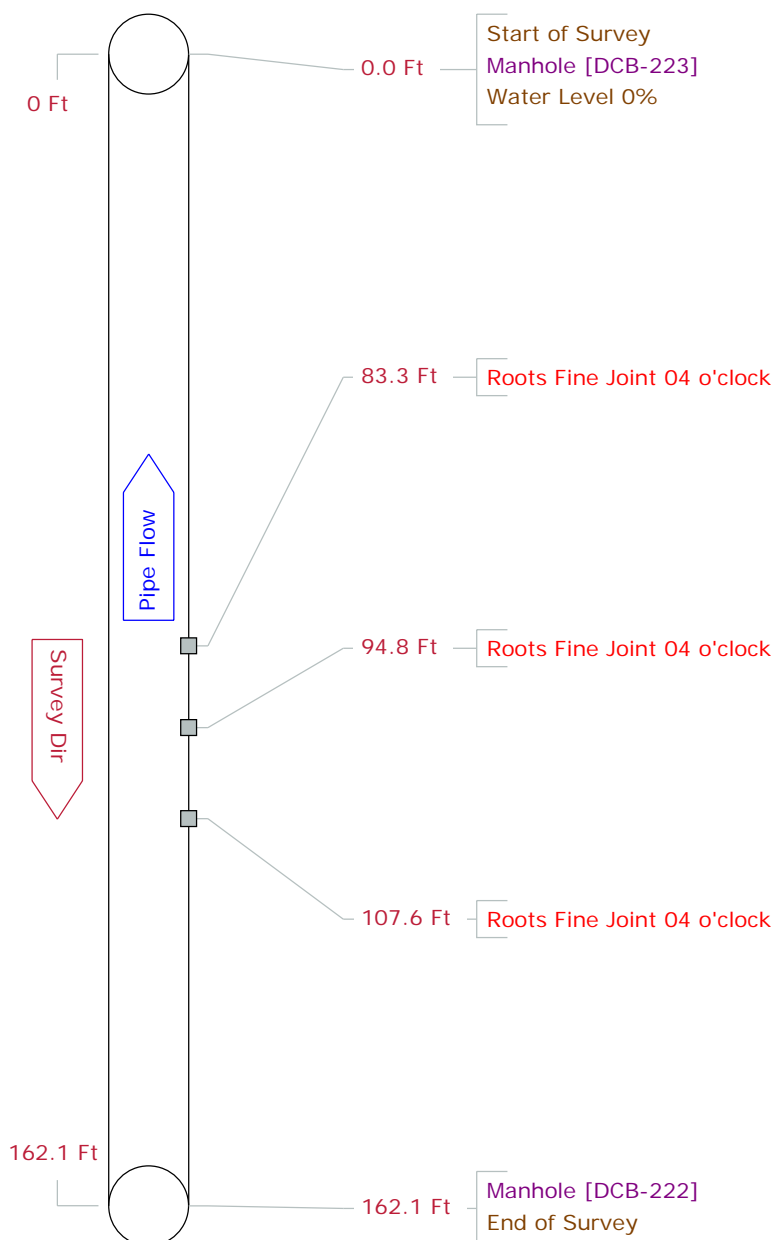
# Pipe Graphic Report of PLR DCB-231 W for WOODARD & CURRAN

<b>Setup</b> 61	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 13:45	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-231	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-232	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 75.3 <b>Ft</b>	<b>Length Surveyed</b> 75.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



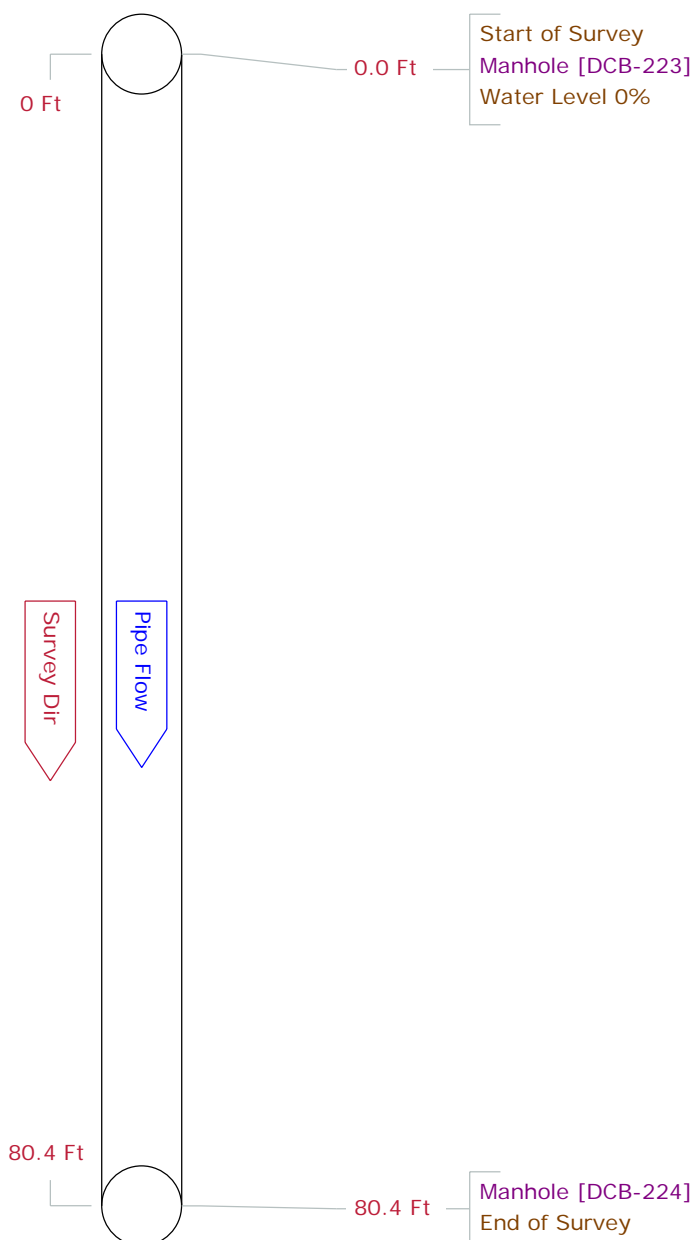
# Pipe Graphic Report of PLR DCB-222 W for WOODARD & CURRAN

<b>Setup</b> 62	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 14:29	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-223	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-222	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 162.1 <b>Ft</b>	<b>Length Surveyed</b> 162.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



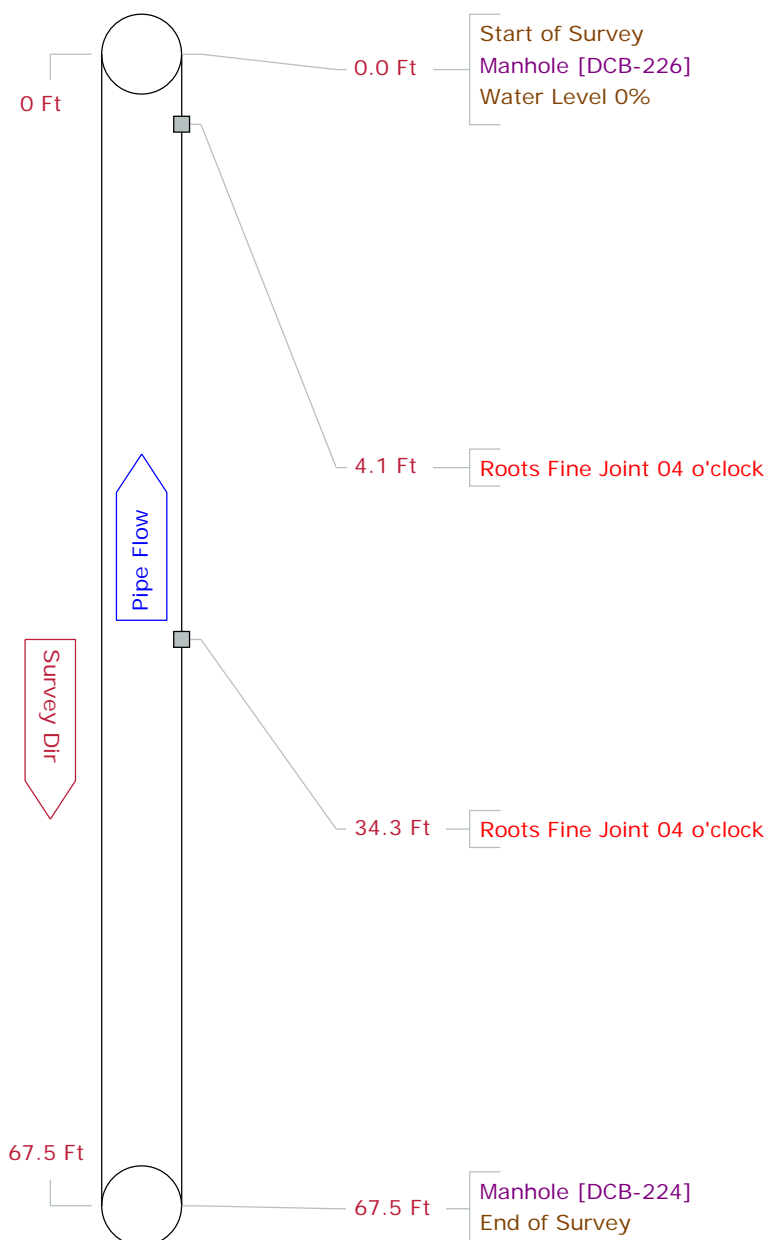
# Pipe Graphic Report of PLR DCB-223 W for WOODARD & CURRAN

<b>Setup</b> 63	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 14:38	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-223	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-224	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 80.4 <b>Ft</b>	<b>Length Surveyed</b> 80.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



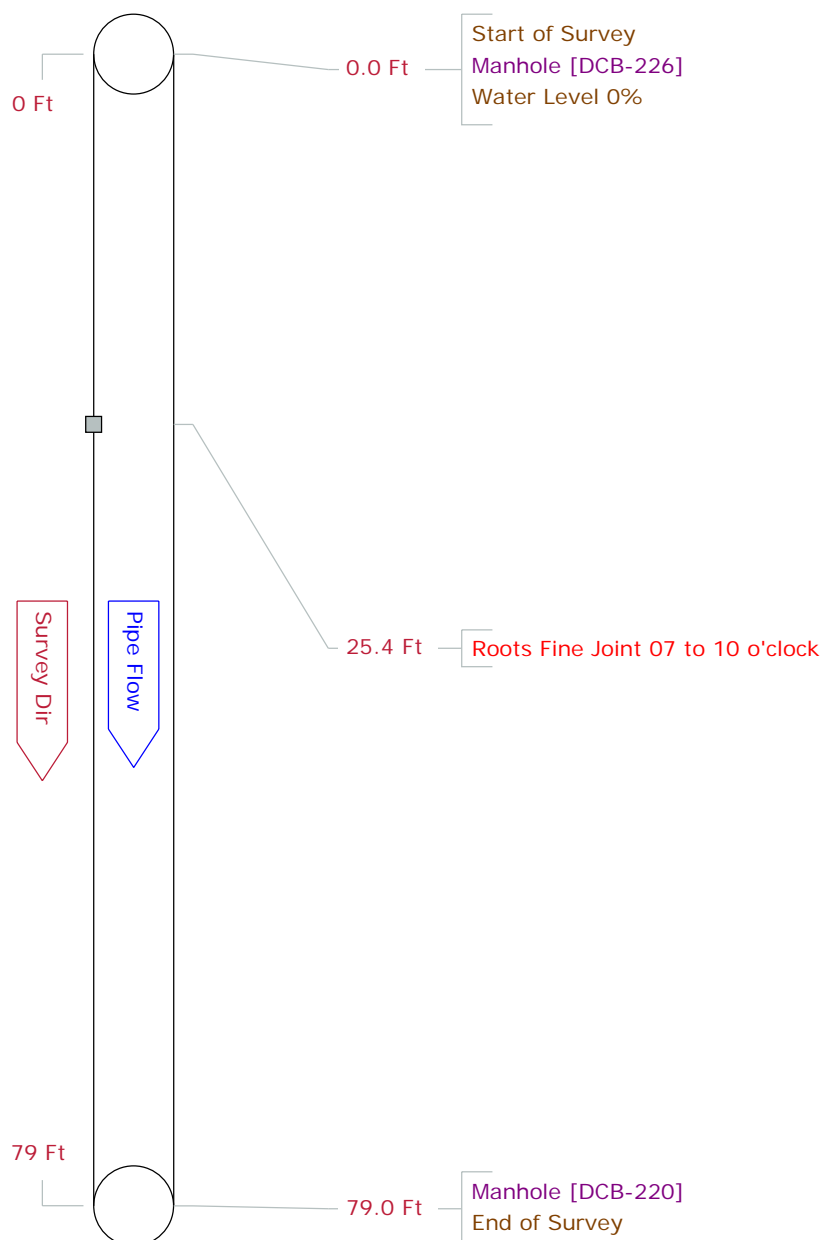
# Pipe Graphic Report of PLR DCB-224 W for WOODARD & CURRAN

<b>Setup</b> 64	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 15:06	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-226	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-224	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 67.5 <b>Ft</b>	<b>Length Surveyed</b> 67.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



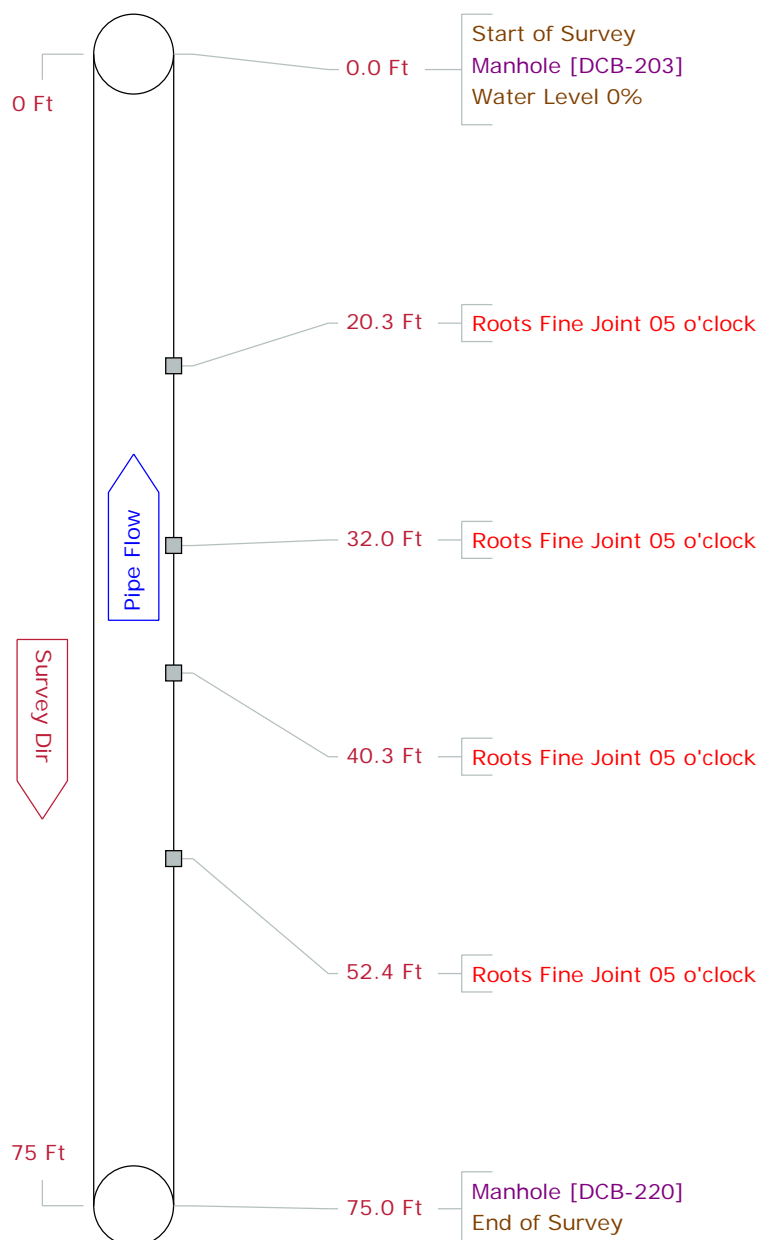
# Pipe Graphic Report of PLR DCB-226 X for WOODARD & CURRAN

<b>Setup</b> 65	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 15:13	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-226	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-220	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 79.0 <b>Ft</b>	<b>Length Surveyed</b> 79.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-220 X for WOODARD & CURRAN

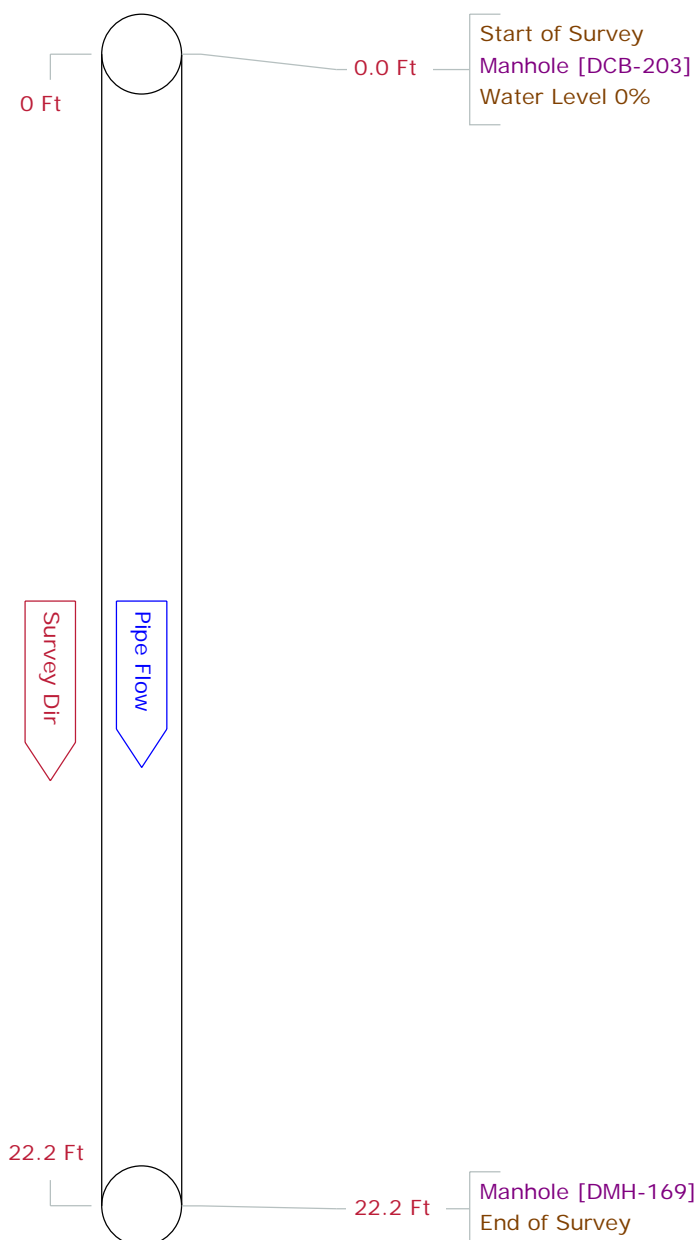
<b>Setup</b> 66	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 15:28	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-203	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-220	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 75.0 <b>Ft</b>	<b>Length Surveyed</b> 75.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





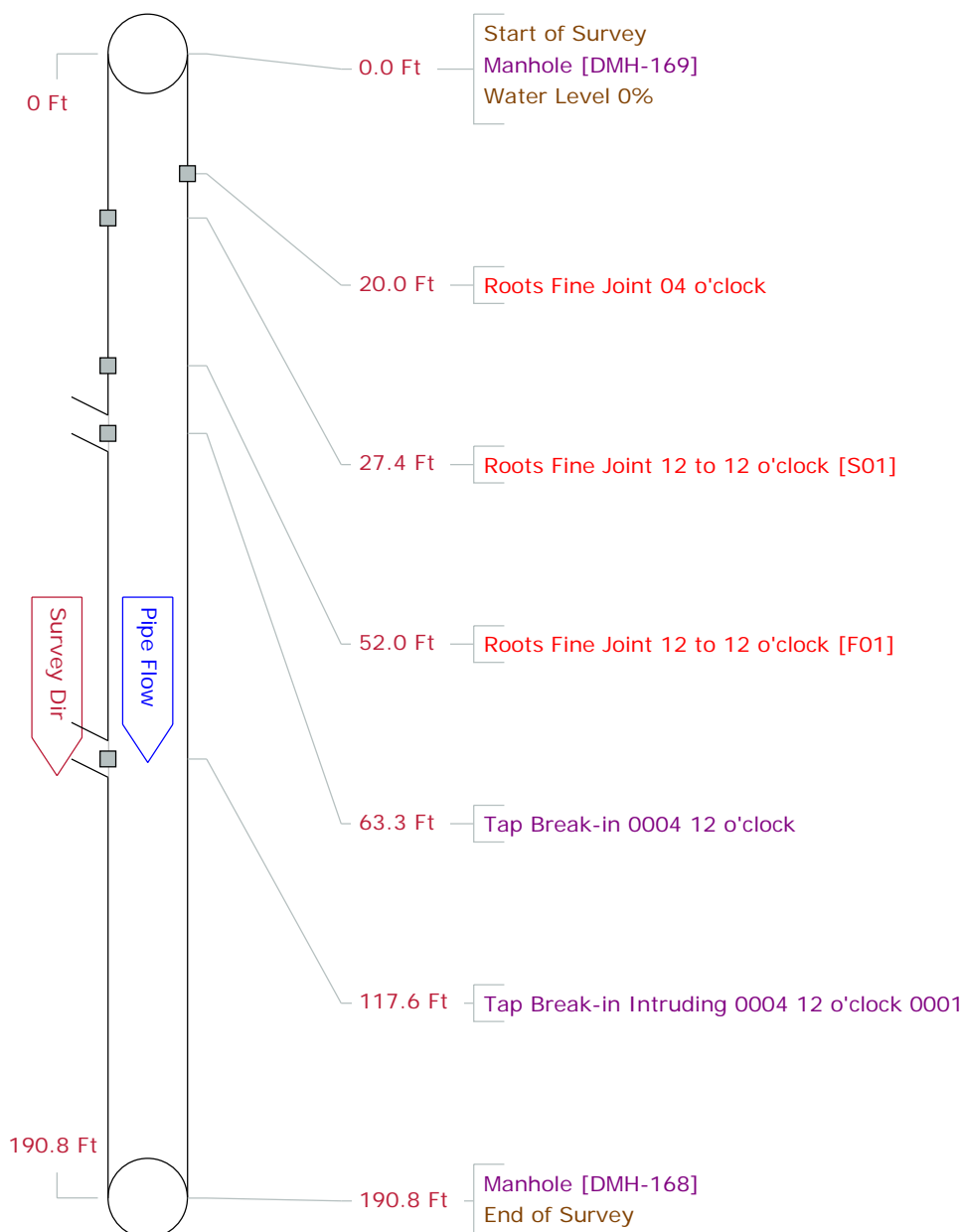
# Pipe Graphic Report of PLR DCB-203 X for WOODARD & CURRAN

<b>Setup</b> 67	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 15:38	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-203	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-169	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 22.2 <b>Ft</b>	<b>Length Surveyed</b> 22.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



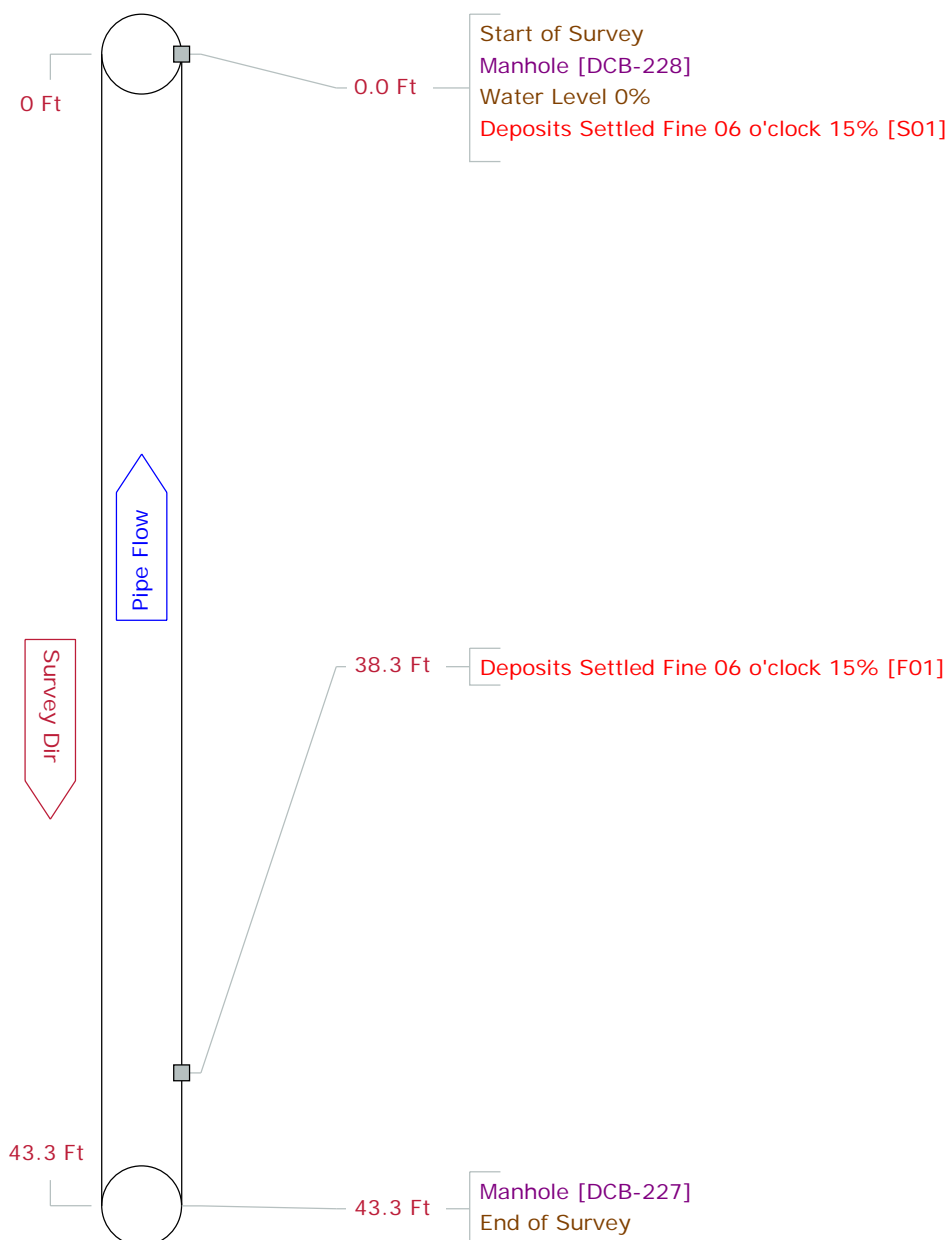
# Pipe Graphic Report of PLR DMH-169 X for WOODARD & CURRAN

<b>Setup</b> 68	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 15:43	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-169	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-168	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 190.8 <b>Ft</b>	<b>Length Surveyed</b> 190.80
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



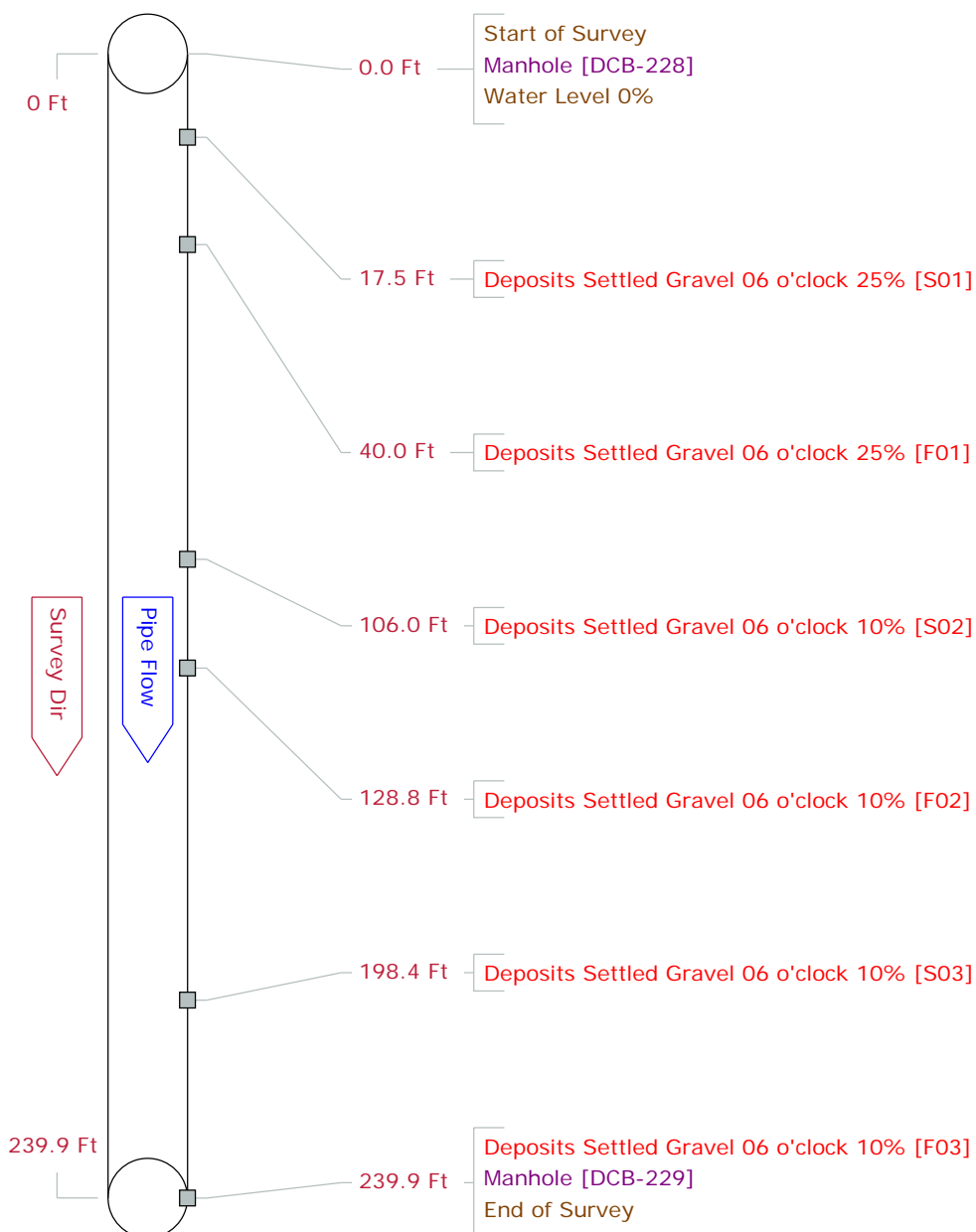
# Pipe Graphic Report of PLR DCB-227 X for WOODARD & CURRAN

<b>Setup</b> 69	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 16:19	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-228	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-227	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 43.3	<b>Ft</b> <b>Length Surveyed</b> 43.30
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



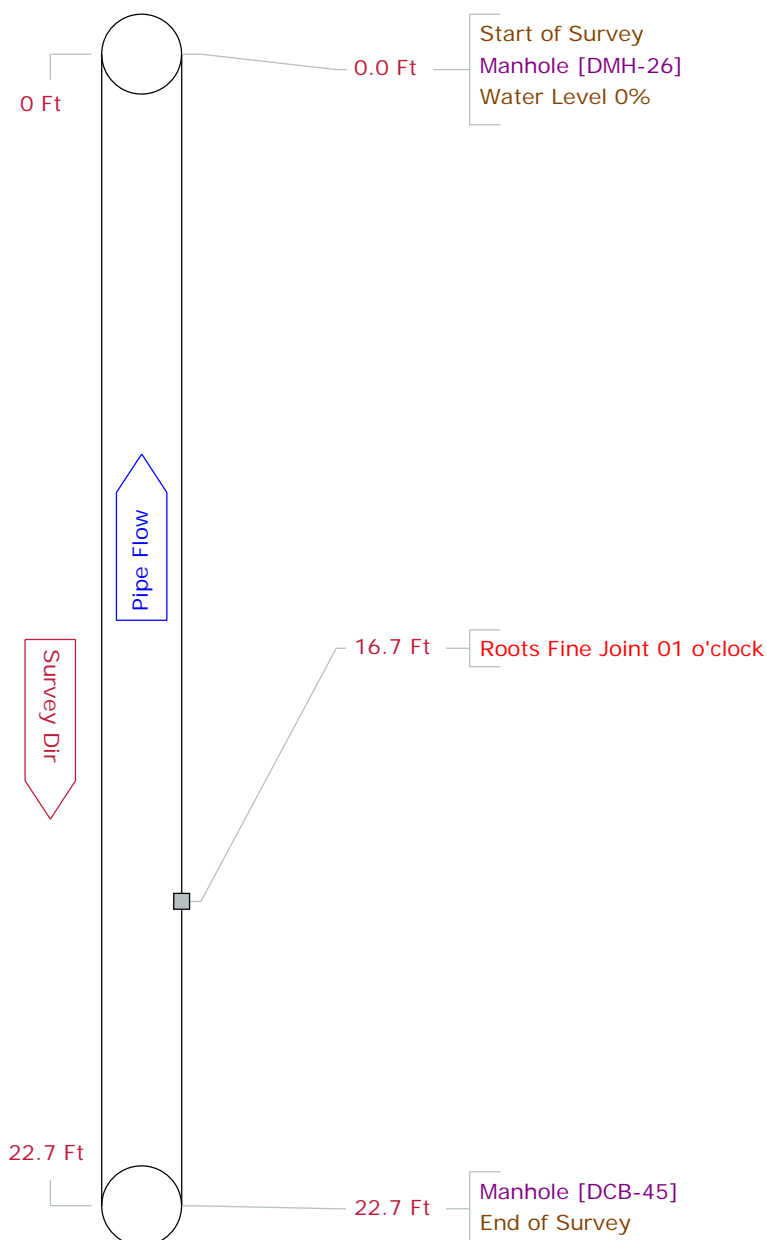
# Pipe Graphic Report of PLR DCB-228 X for WOODARD & CURRAN

<b>Setup</b> 70	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/14	<b>Time</b> 16:24	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-228	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-229	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 239.9 <b>Ft</b>	<b>Length Surveyed</b> 239.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



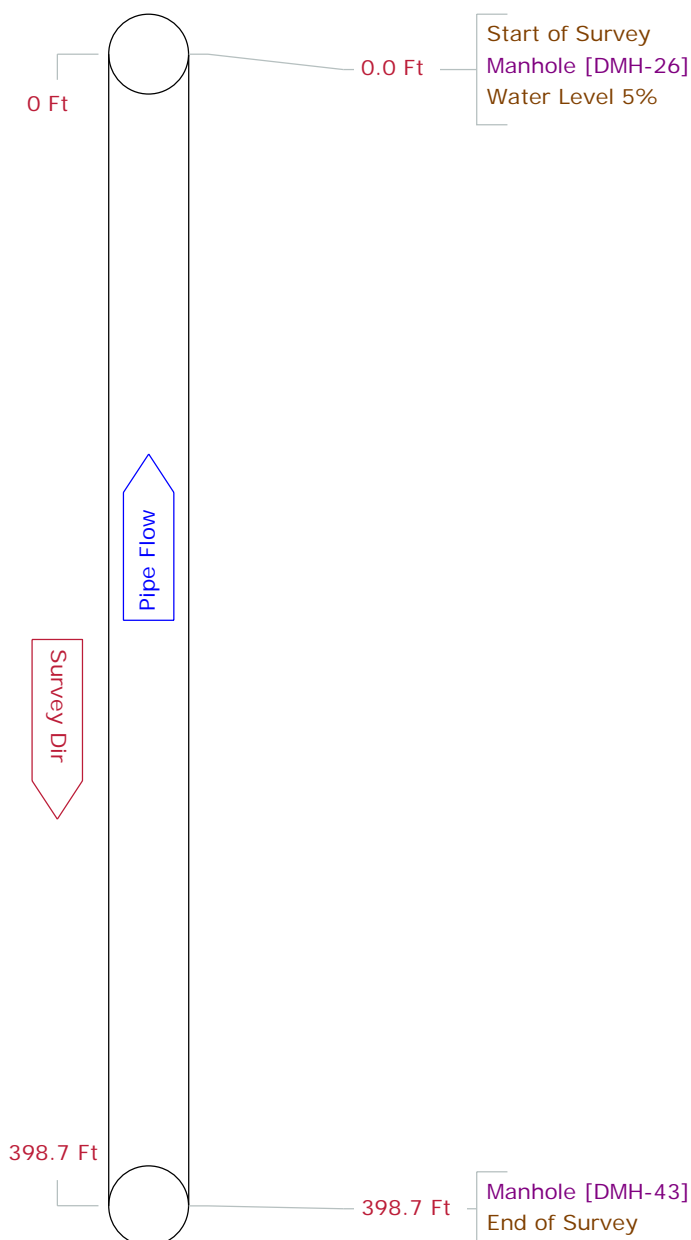
# Pipe Graphic Report of PLR DCB-45 X for WOODARD & CURRAN

<b>Setup</b> 71	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 8:20	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-26	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-45	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 12	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 22.7 <b>Ft</b>	<b>Length Surveyed</b> 22.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



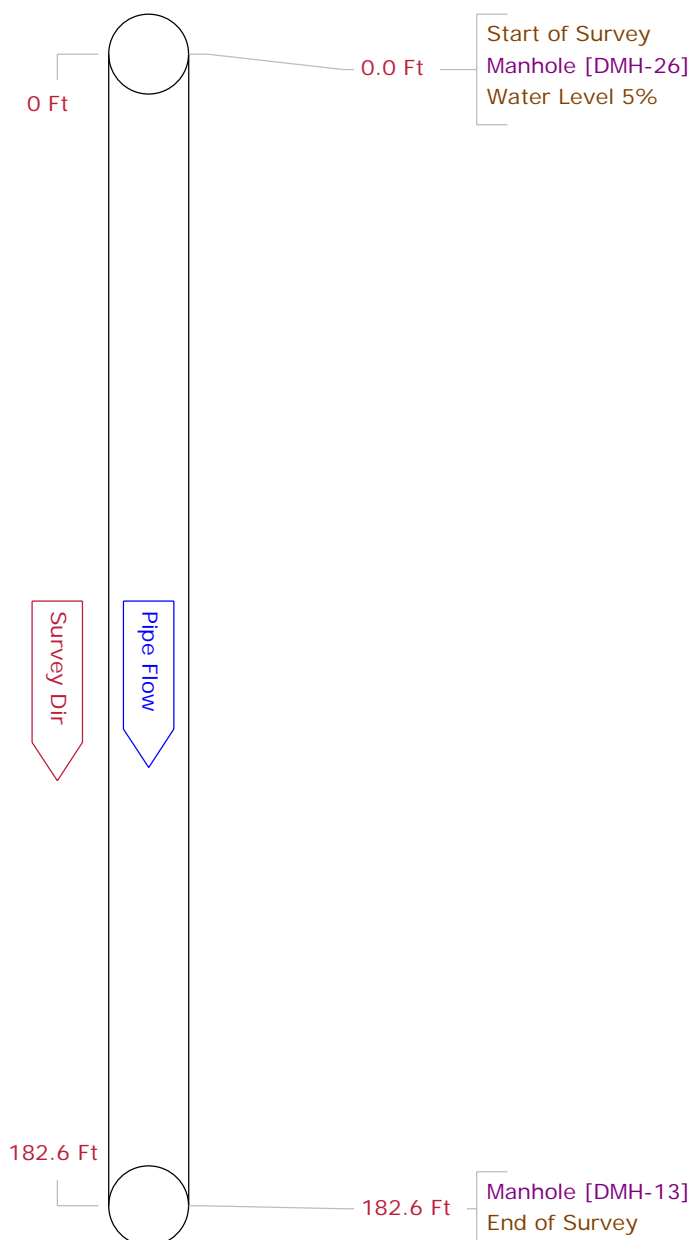
# Pipe Graphic Report of PLR DMH-43 X for WOODARD & CURRAN

<b>Setup</b> 72	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 8:45	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-26	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-43	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 398.7 <b>Ft</b>	<b>Length Surveyed</b> 398.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



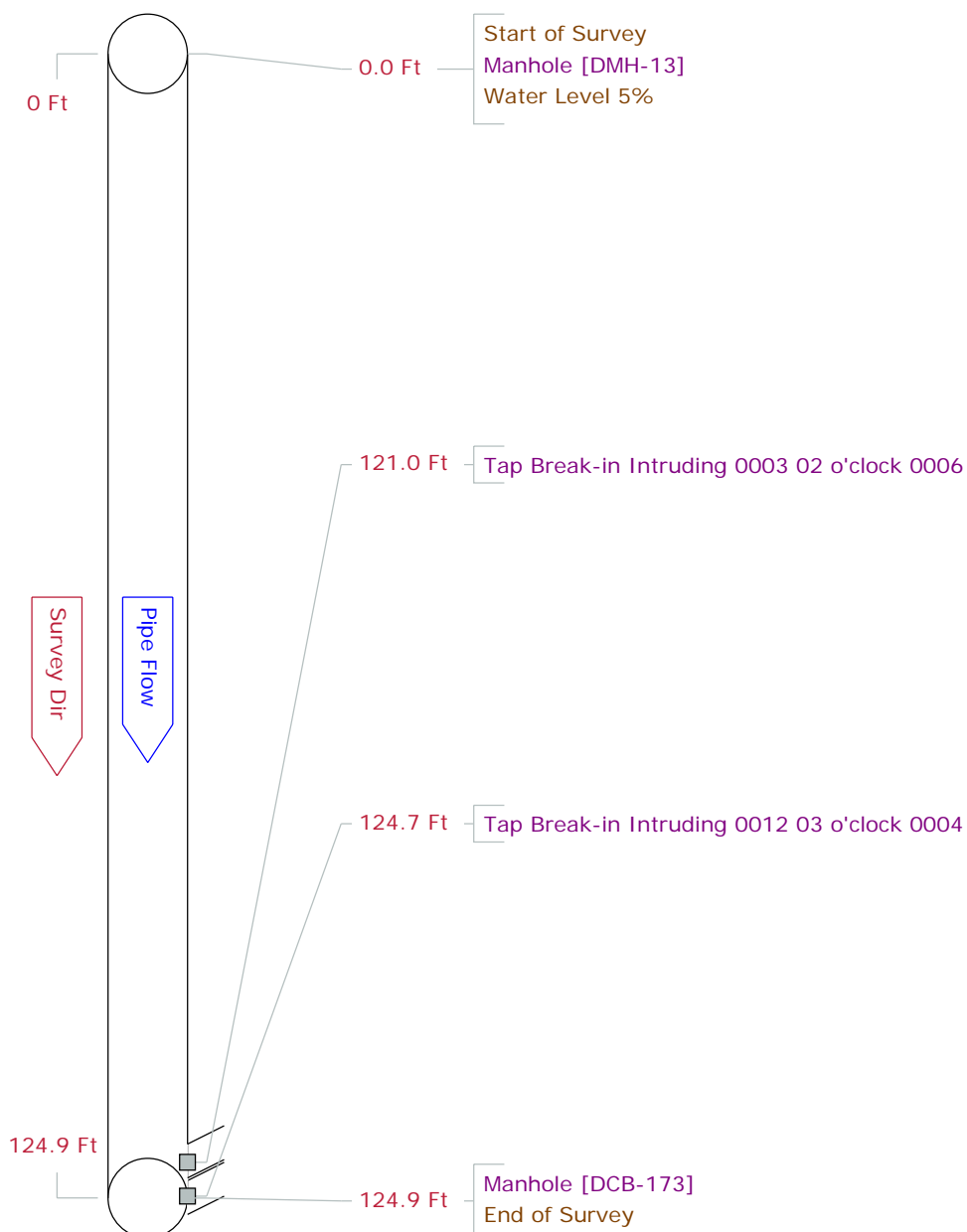
# Pipe Graphic Report of PLR DMH-26 X for WOODARD & CURRAN

<b>Setup</b> 73	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 9:07	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-26	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-113	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 182.6 <b>Ft</b>	<b>Length Surveyed</b> 182.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DMH-13 X for WOODARD & CURRAN

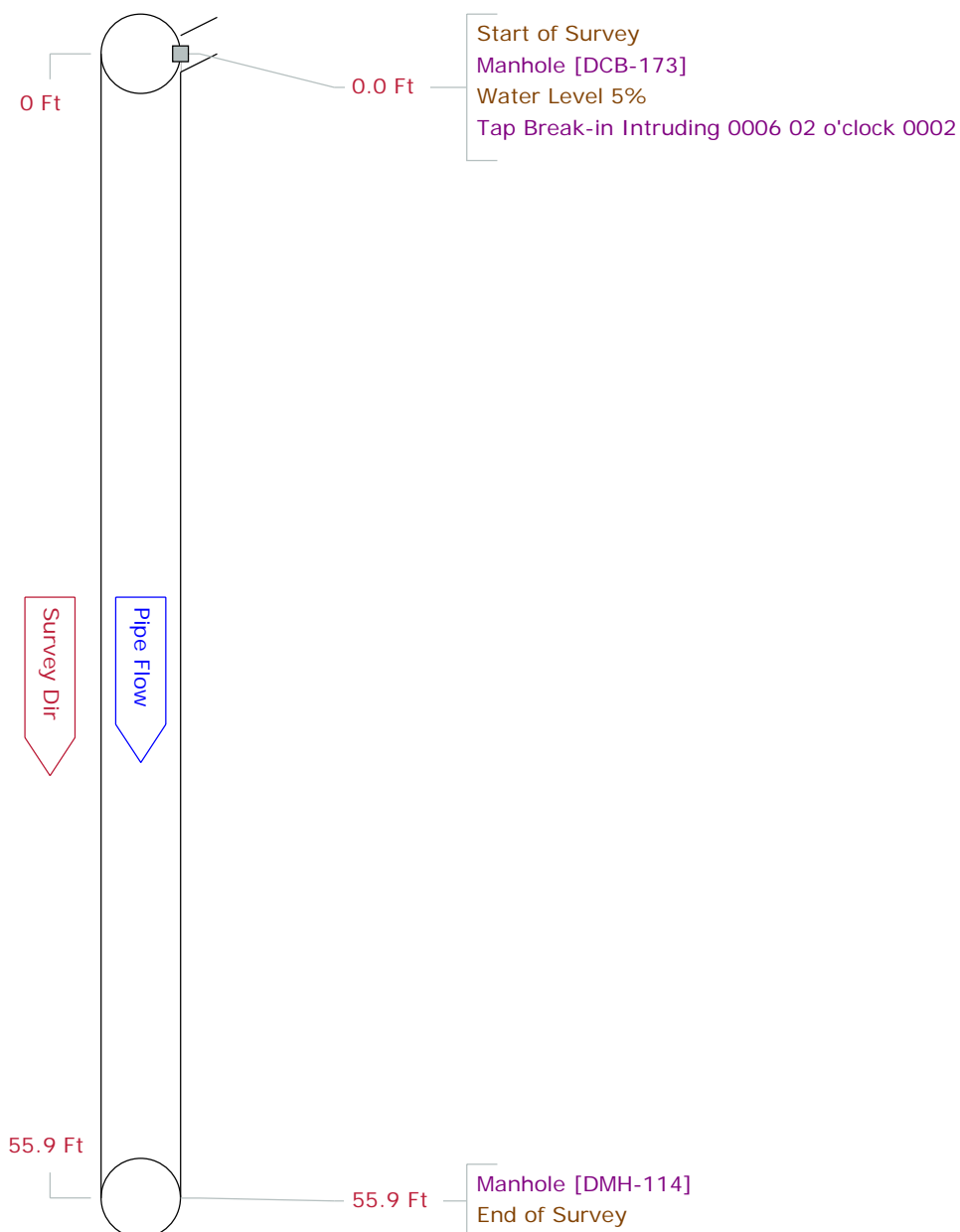
<b>Setup</b> 74	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 9:12	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-113	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-173	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 124.9 <b>Ft</b>	<b>Length Surveyed</b> 124.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





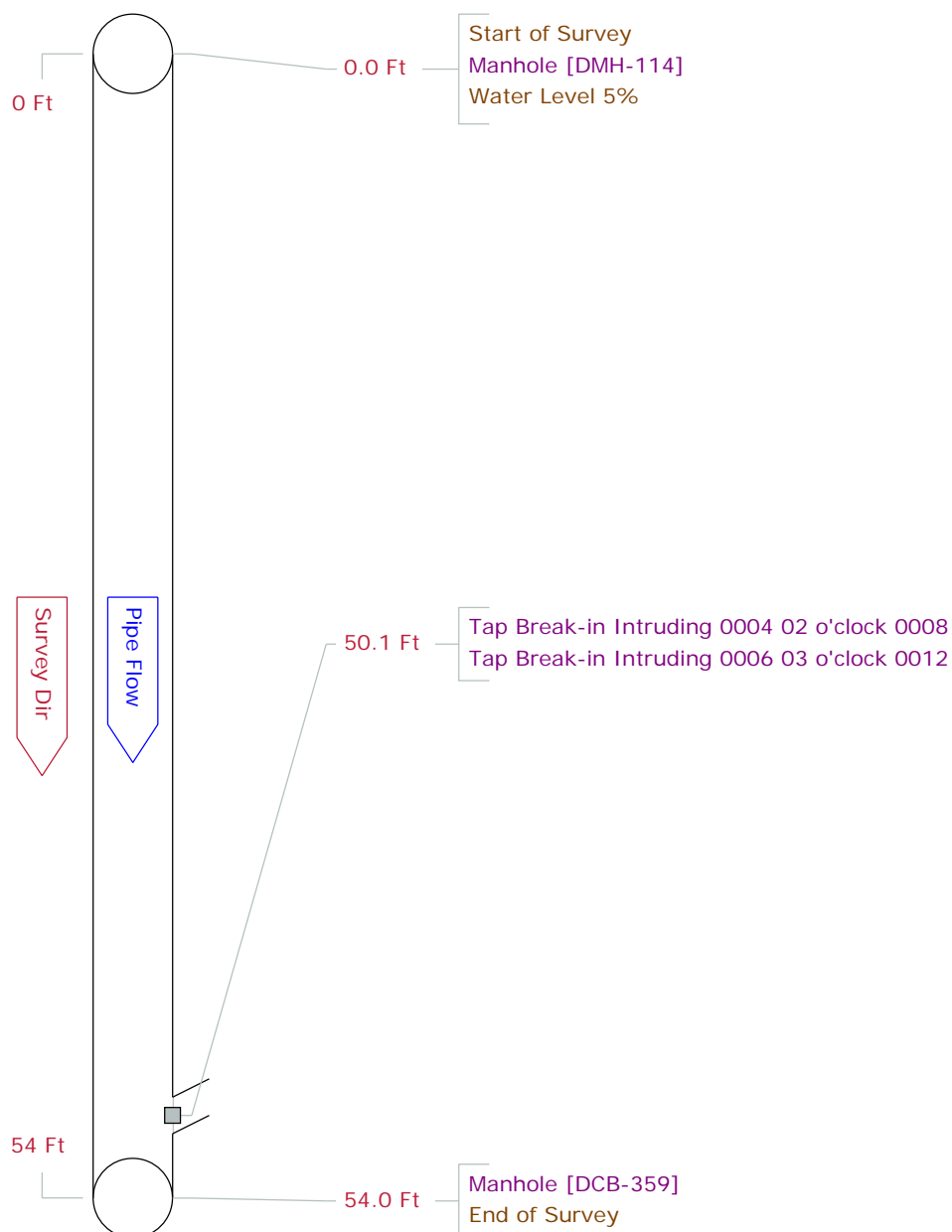
# Pipe Graphic Report of PLR DCB-173 X for WOODARD & CURRAN

<b>Setup</b> 75	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 9:17	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-173	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-114	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 55.9 <b>Ft</b>	<b>Length Surveyed</b> 55.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



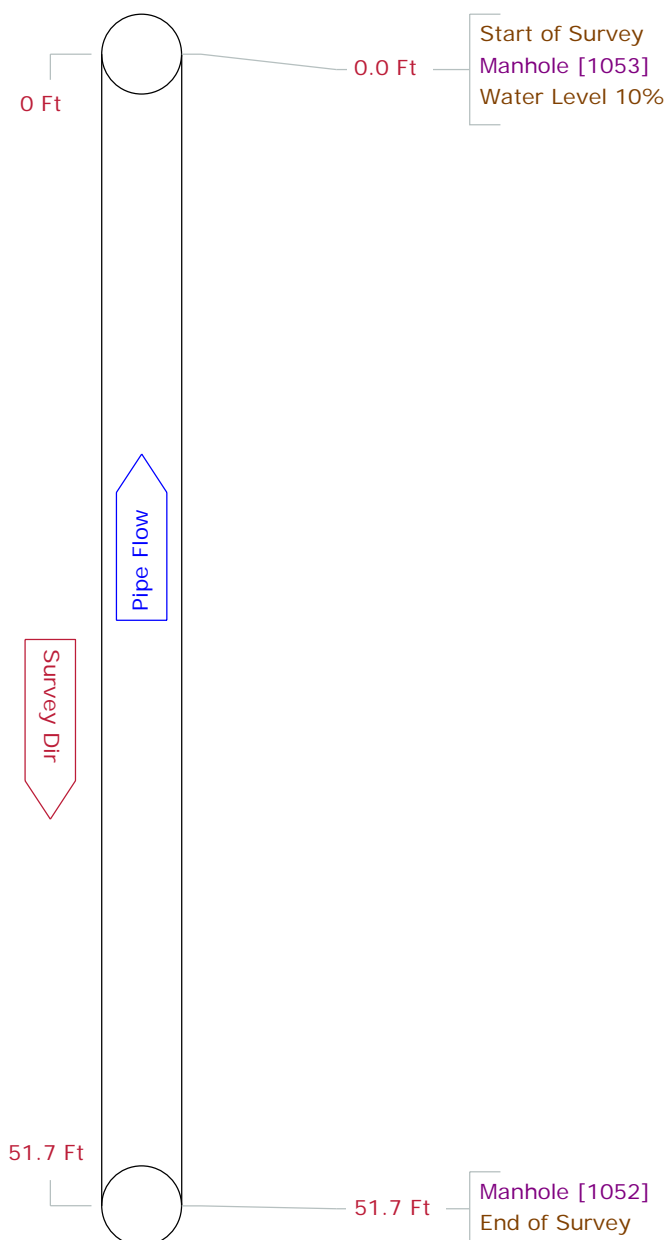
# Pipe Graphic Report of PLR DMH-114 X for WOODARD & CURRAN

<b>Setup</b> 76	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 9:21	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-114	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-359	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 54.0 <b>Ft</b>	<b>Length Surveyed</b> 54.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



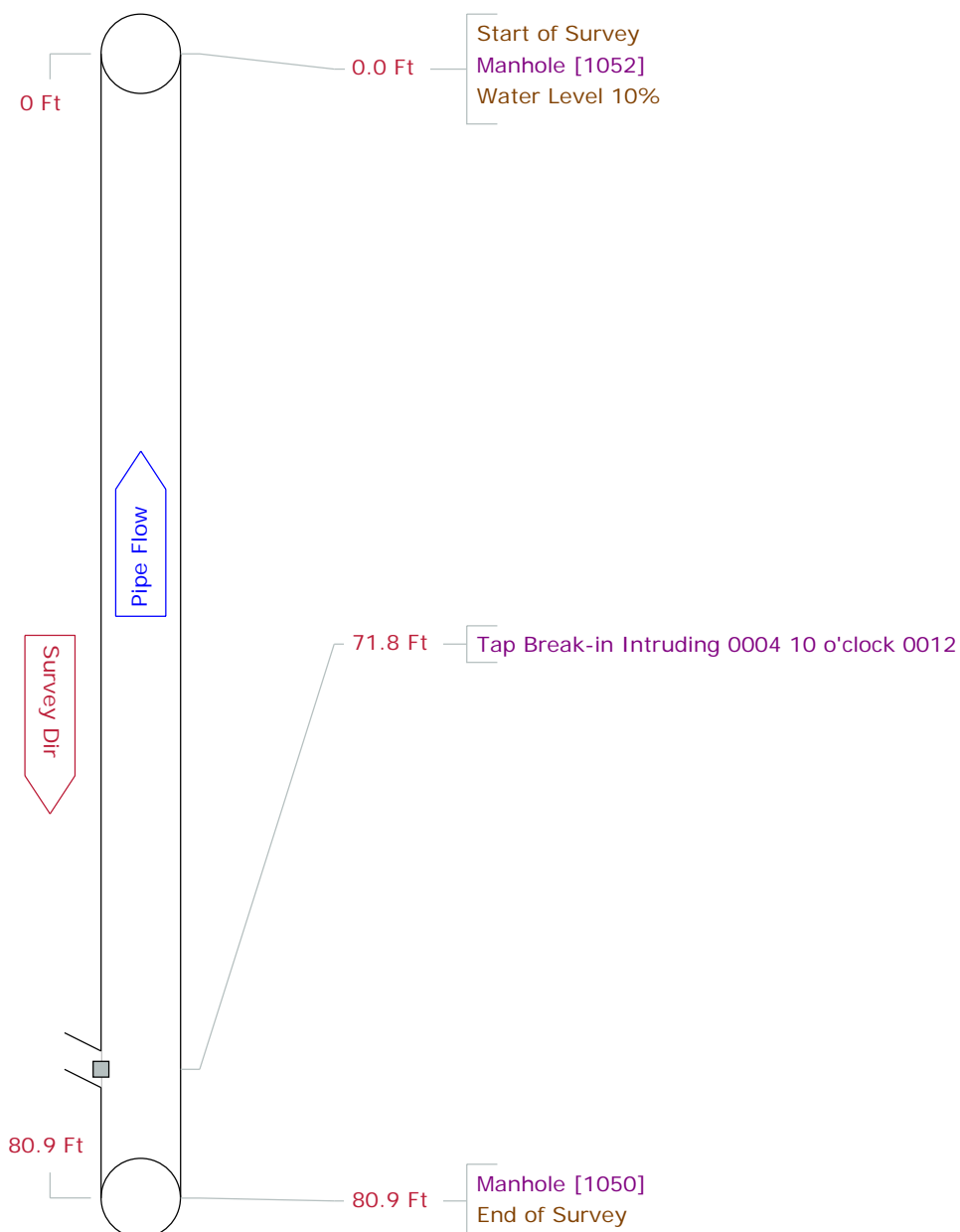
# Pipe Graphic Report of PLR 1052 X for WOODARD & CURRAN

<b>Setup</b> 77	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 9:49	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> 1053	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> 1052	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36 <b>Width</b> ins	<b>Preclean</b> N	<b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 51.7 <b>Ft</b>	<b>Length Surveyed</b> 51.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



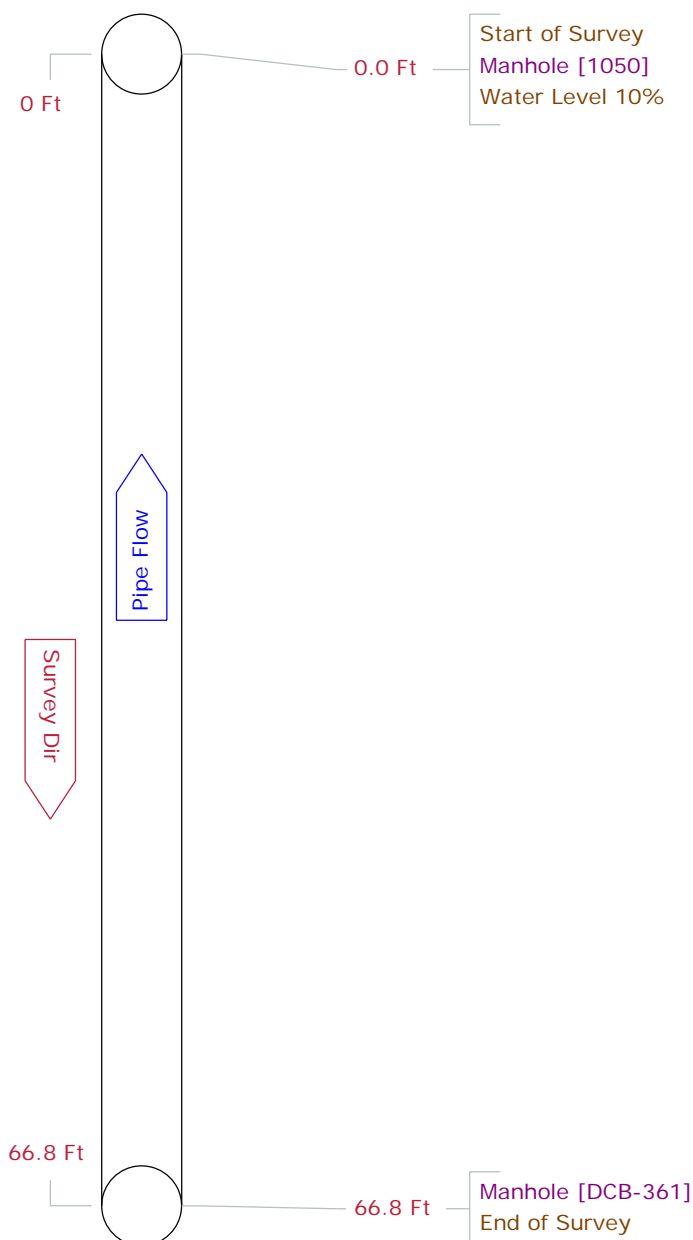
# Pipe Graphic Report of PLR 1050 X for WOODARD & CURRAN

<b>Setup</b> 78	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 9:54	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> 1052	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> 1050	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 80.9	<b>Ft</b> <b>Length Surveyed</b> 80.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



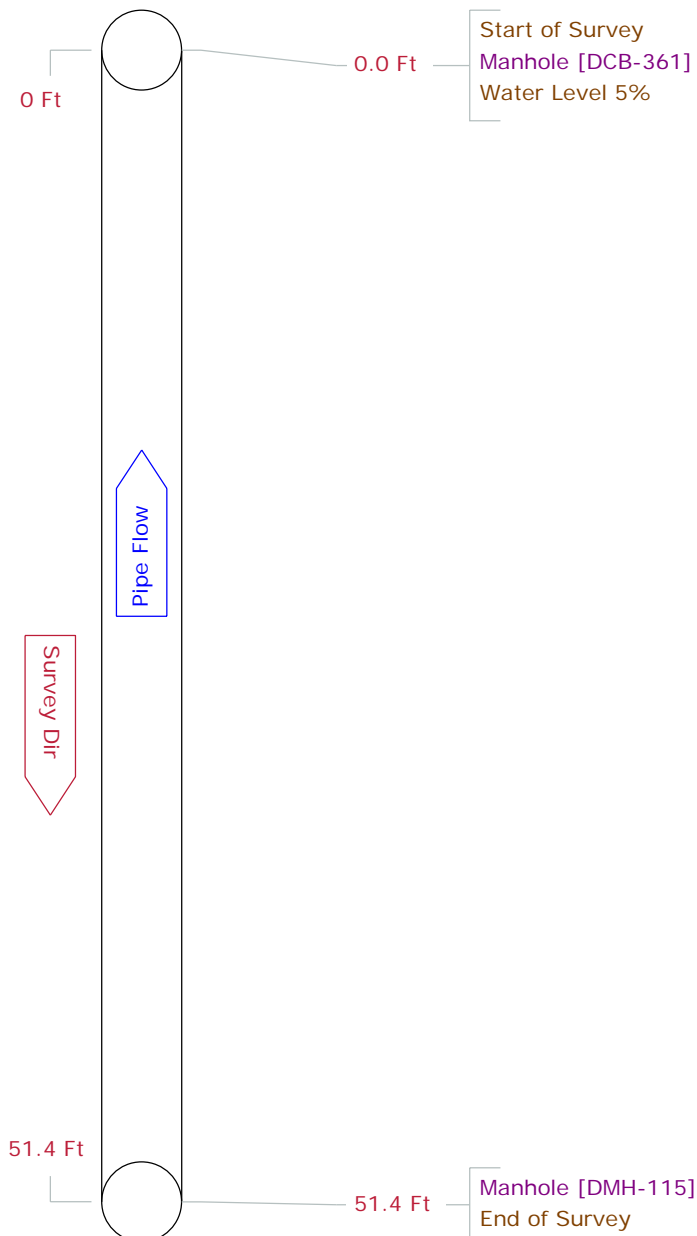
# Pipe Graphic Report of PLR DCB-361 X for WOODARD & CURRAN

<b>Setup</b> 79	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 9:58	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> 1050	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-361	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 66.8	<b>Ft</b> <b>Length Surveyed</b> 66.80
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



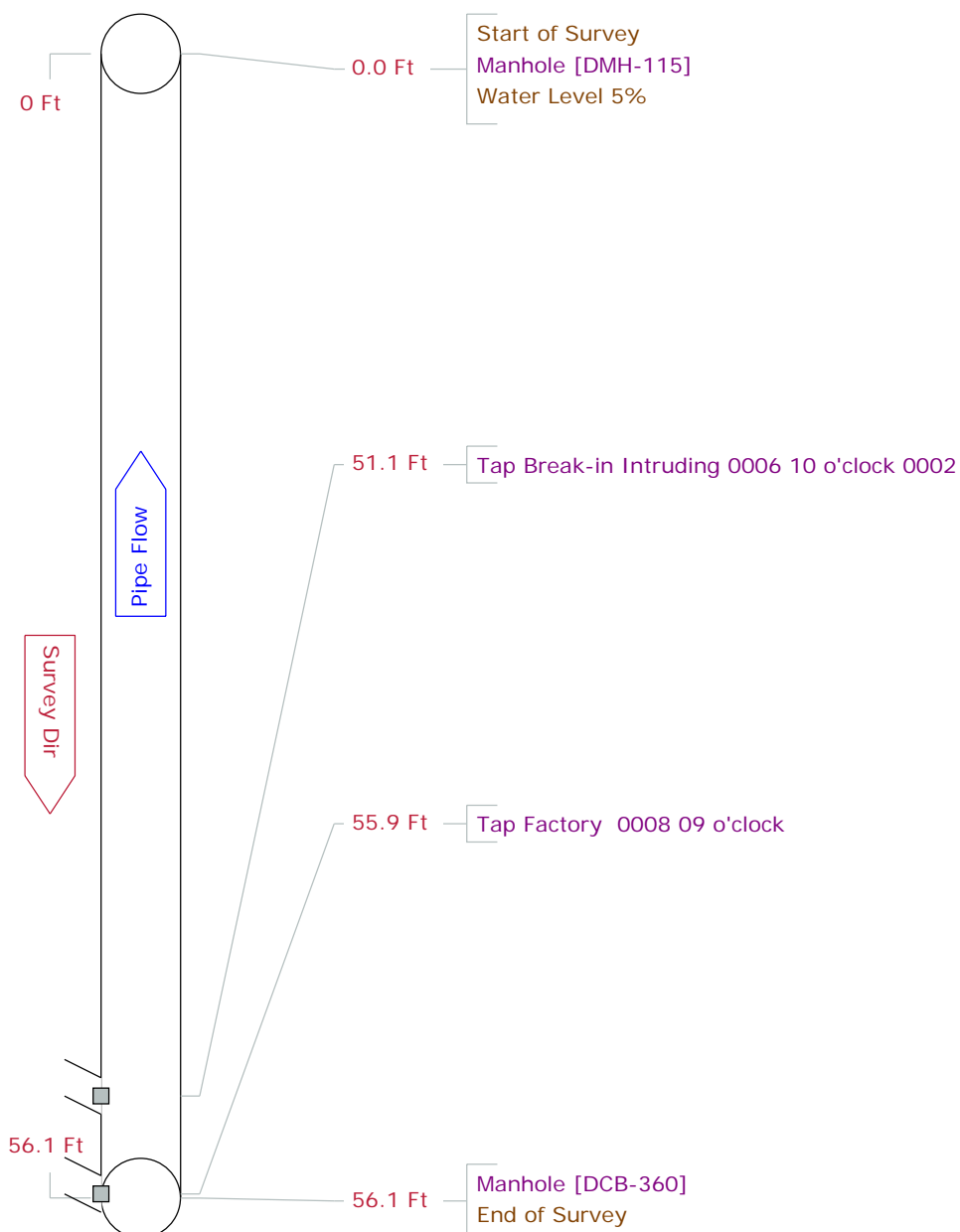
# Pipe Graphic Report of PLR DMH-115 X for WOODARD & CURRAN

<b>Setup</b> 80	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 10:01	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-361	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-115	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 51.4	<b>Ft</b> <b>Length Surveyed</b> 51.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



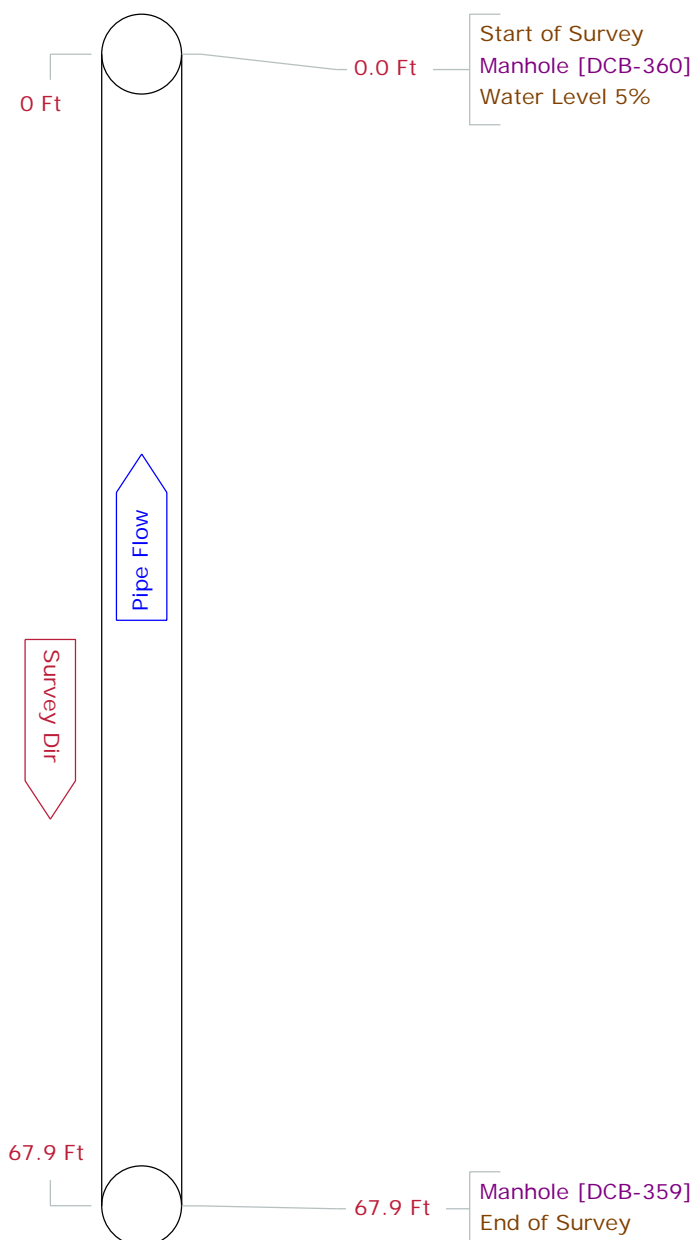
# Pipe Graphic Report of PLR DCB-360 X for WOODARD & CURRAN

<b>Setup</b> 81	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 10:05	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-115	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-360	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 56.1	<b>Ft</b> <b>Length Surveyed</b> 56.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-359 X for WOODARD & CURRAN

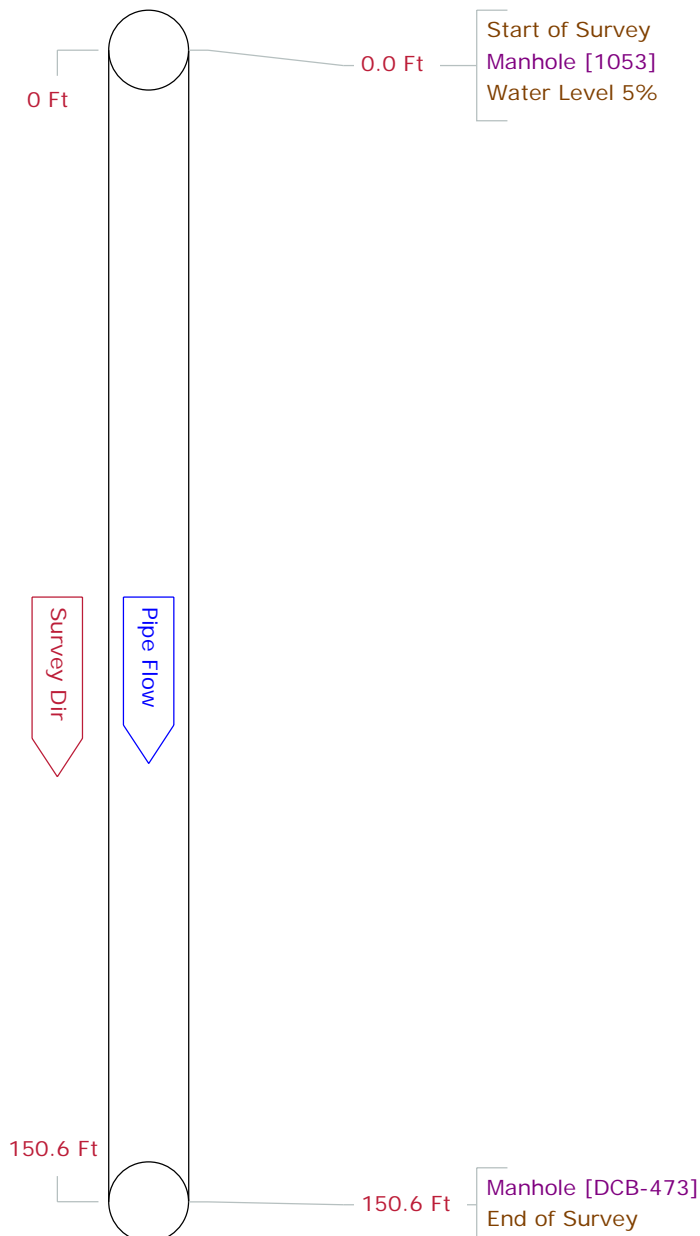
<b>Setup</b> 82	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 10:10	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-360	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-359	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 67.9	<b>Ft</b> <b>Length Surveyed</b> 67.90
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





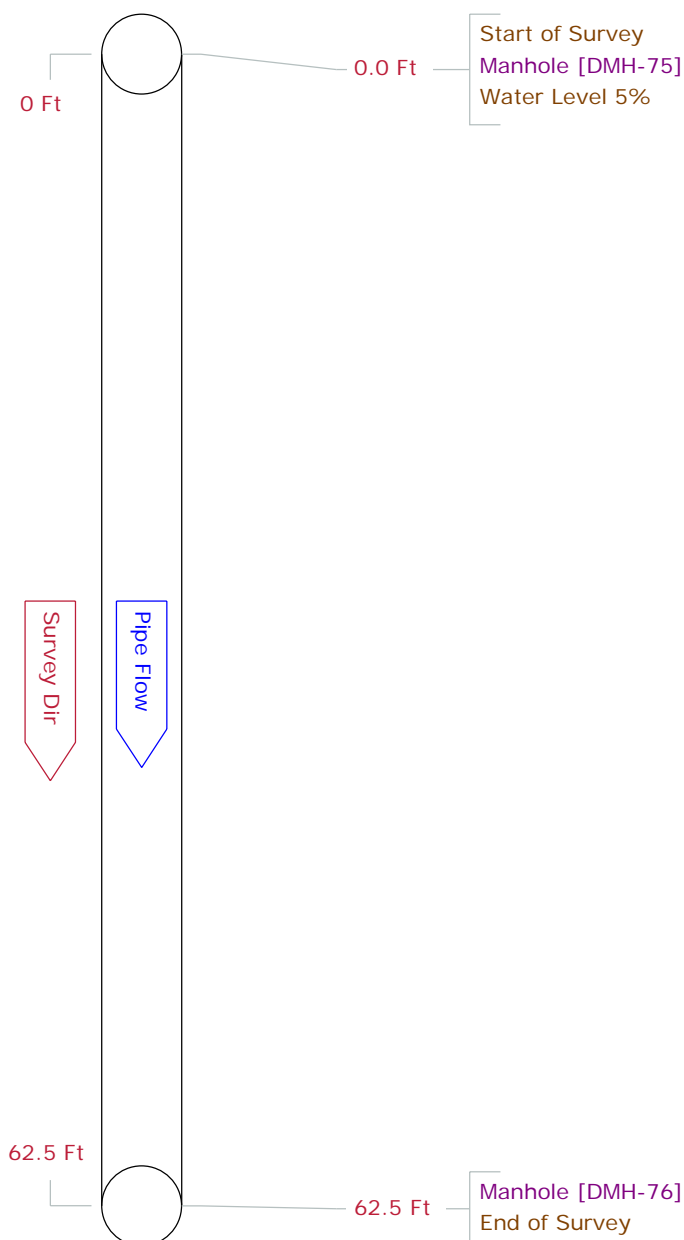
# Pipe Graphic Report of PLR 1053 X for WOODARD & CURRAN

<b>Setup</b> 83	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 10:20	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> 1053	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-473	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 150.6 <b>Ft</b>	<b>Length Surveyed</b> 150.60
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



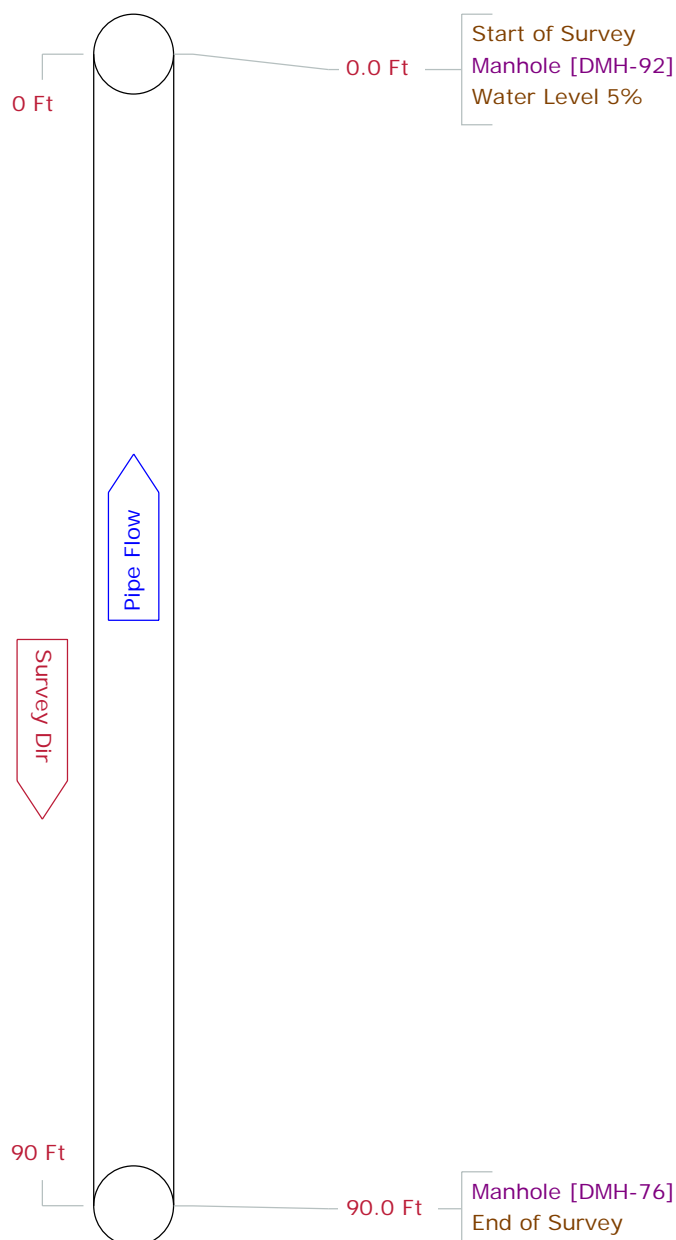
# Pipe Graphic Report of PLR DMH-75 X for WOODARD & CURRAN

<b>Setup</b> 84	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 13:45	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-75	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-76	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 62.5 <b>Ft</b>	<b>Length Surveyed</b> 62.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



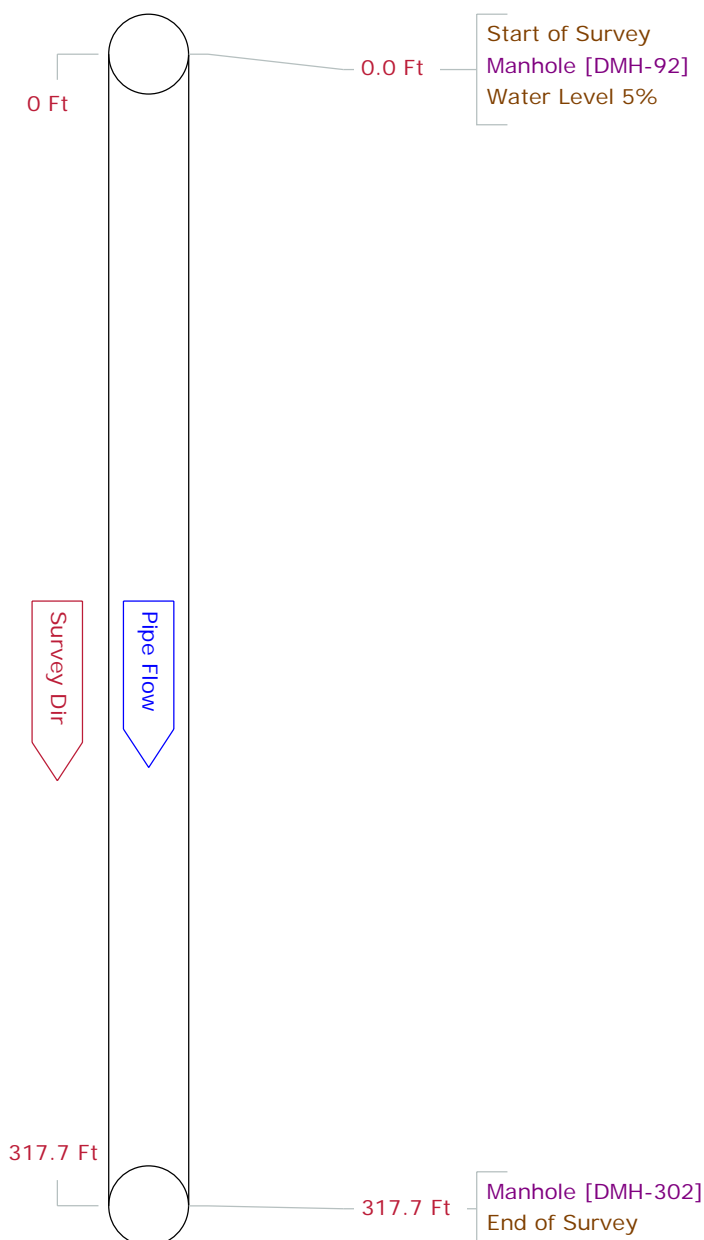
# Pipe Graphic Report of PLR DMH-76 X for WOODARD & CURRAN

<b>Setup</b> 85	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 13:58	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-92	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-76	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 90.0 <b>Ft</b>	<b>Length Surveyed</b> 90.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



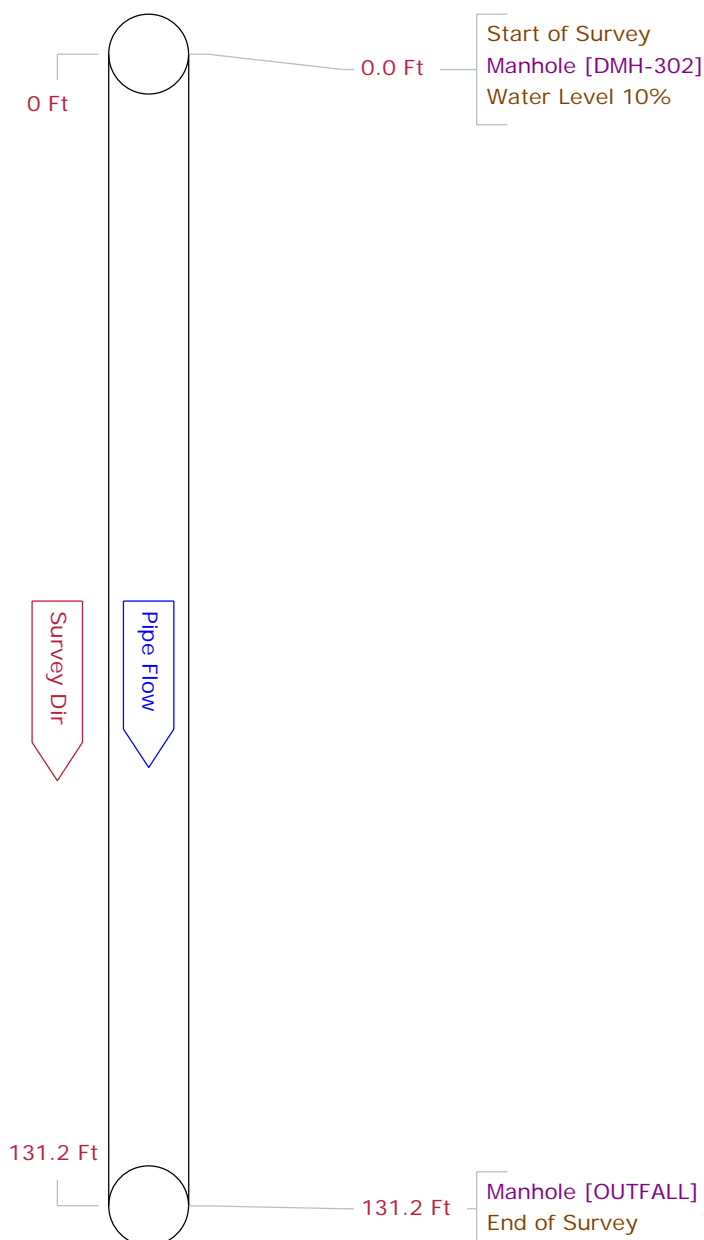
# Pipe Graphic Report of PLR DMH-92 X for WOODARD & CURRAN

<b>Setup</b> 86	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/15	<b>Time</b> 14:13	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-92	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-302	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 317.7 <b>Ft</b>	<b>Length Surveyed</b> 317.70
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



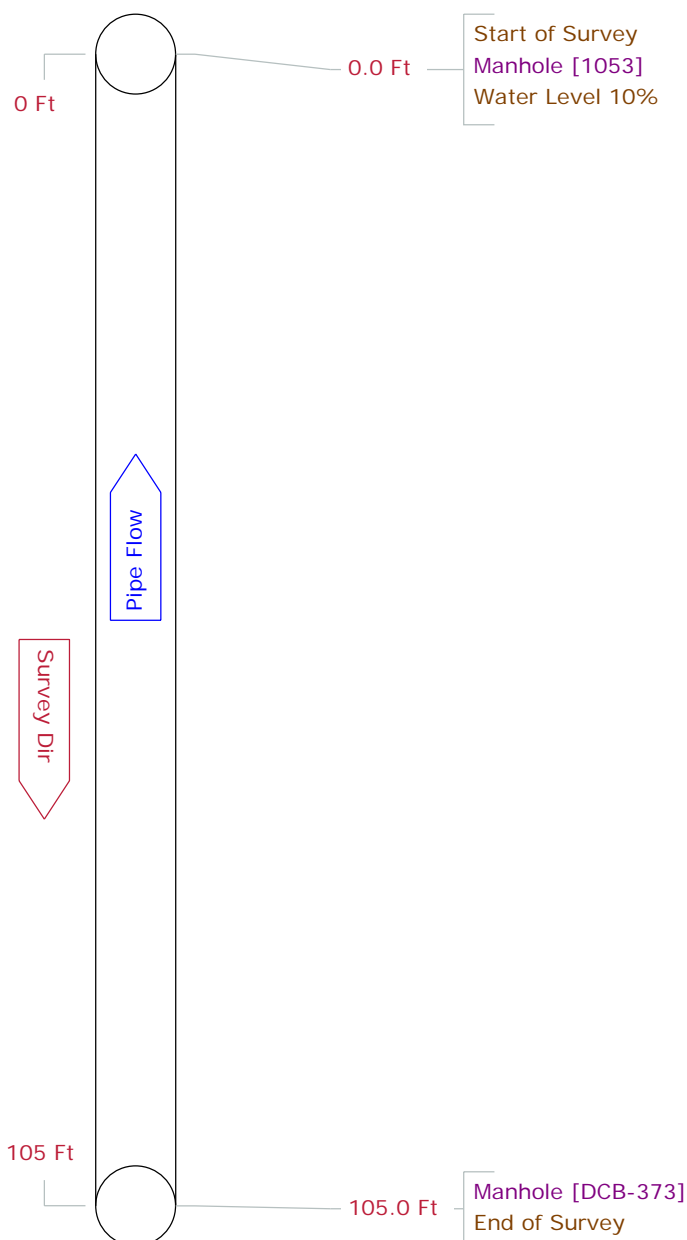
# Pipe Graphic Report of PLR DMH-302 X for WOODARD & CURRAN

<b>Setup</b> 87	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/20	<b>Time</b> 8:41	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-302	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> OUTFALL	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 36	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 131.2 <b>Ft</b>	<b>Length Surveyed</b> 131.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



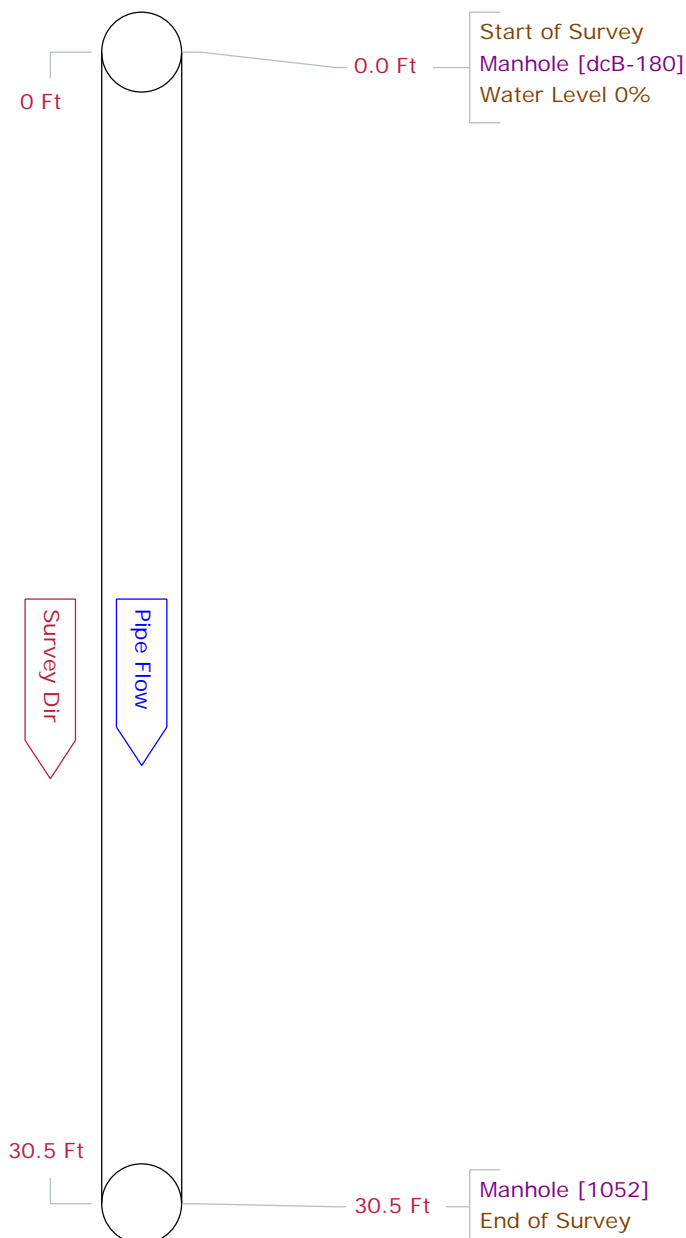
# Pipe Graphic Report of PLR DCB-373 X for WOODARD & CURRAN

<b>Setup</b> 88	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/20	<b>Time</b> 9:10	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> 1053	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-373	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15 <b>Width</b>	<b>ins</b> <b>Preclean</b> N	<b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 105.0 <b>Ft</b>	<b>Length Surveyed</b> 105.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



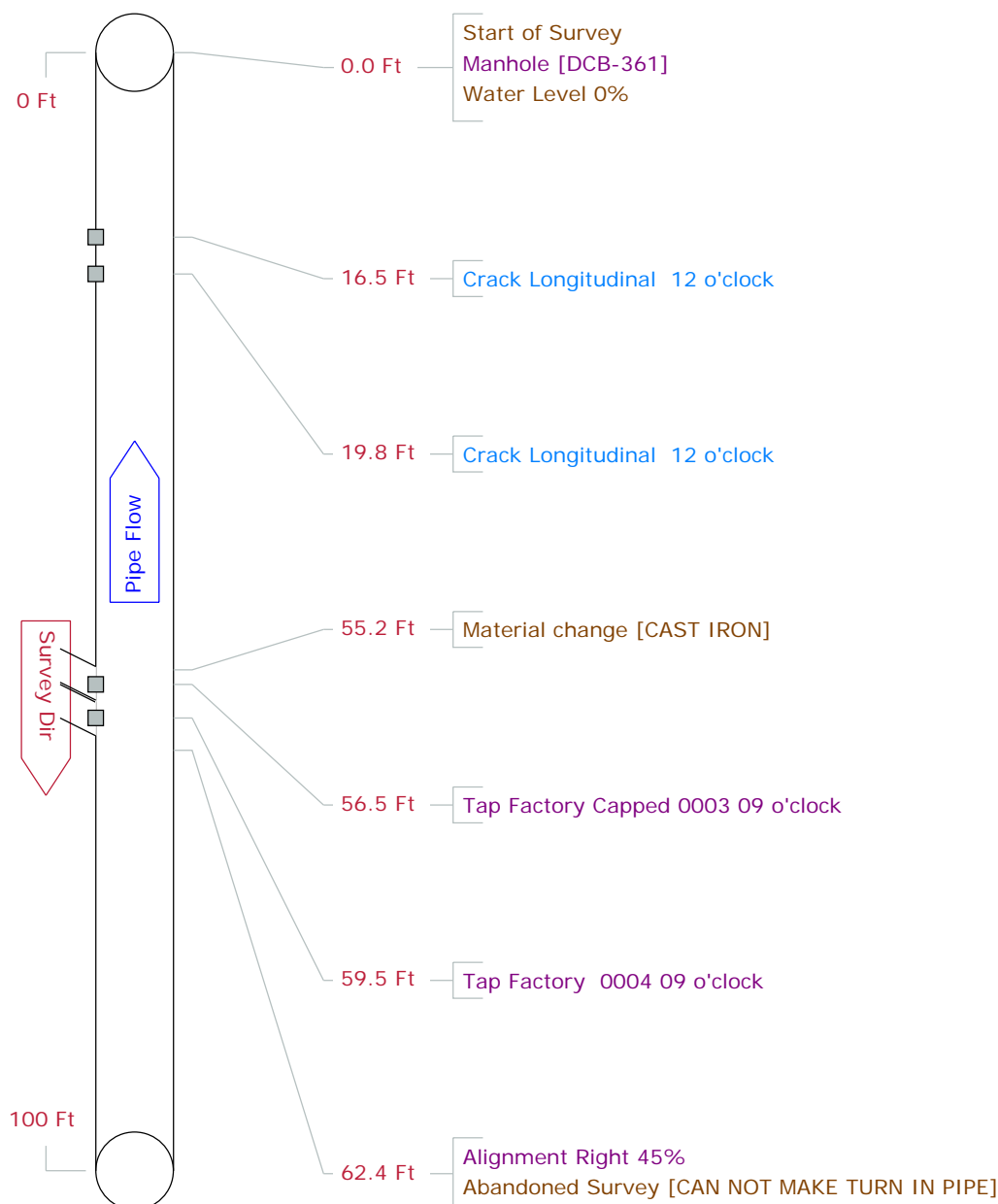
# Pipe Graphic Report of PLR dcB-180 X for WOODARD & CURRAN

<b>Setup</b> 89	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/20	<b>Time</b> 9:34	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-180	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> 1052	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 10	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Polyvinyl Chloride	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 30.5	<b>Ft</b> <b>Length Surveyed</b> 30.50
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-374 X for WOODARD & CURRAN

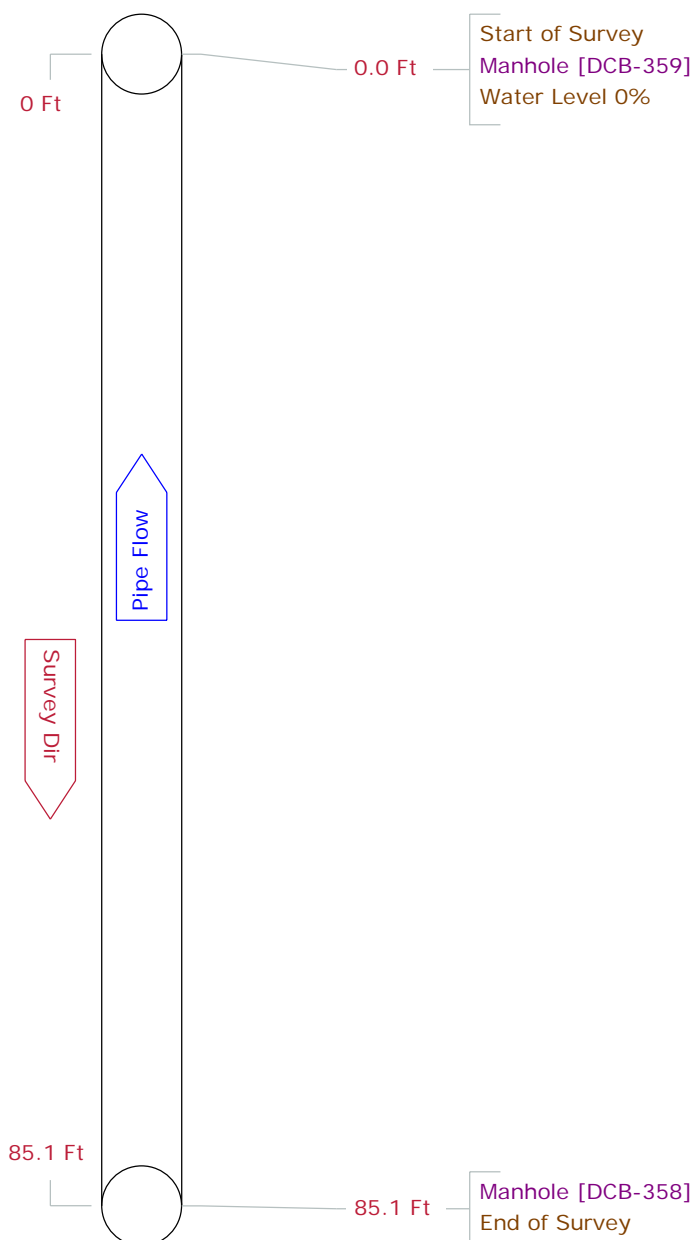
<b>Setup</b> 90	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/20	<b>Time</b> 9:54	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-361	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-374	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 8	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Asbestos Cement	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 100.0 <b>Ft</b>	<b>Length Surveyed</b> 62.40
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>





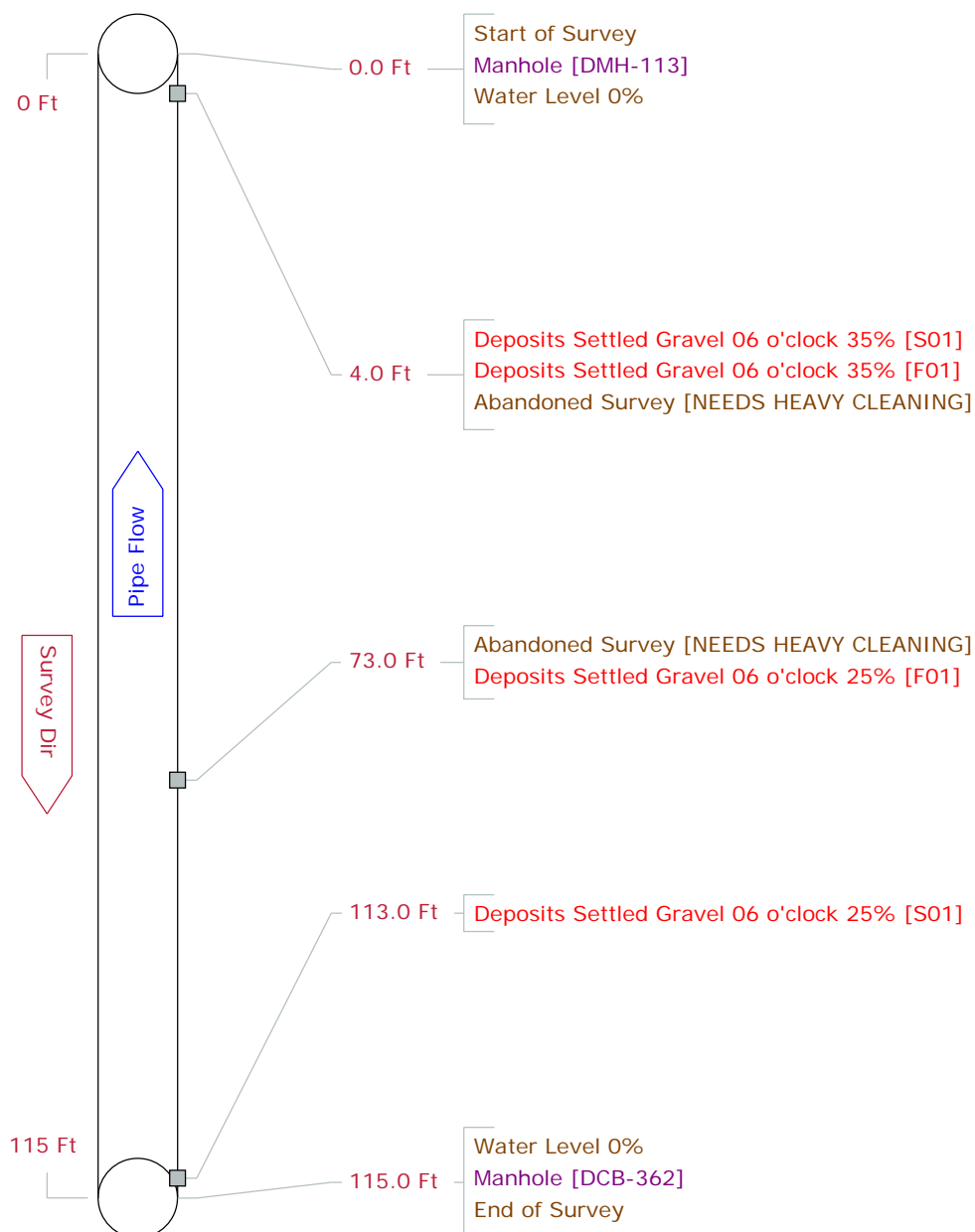
# Pipe Graphic Report of PLR DCB-358 X for WOODARD & CURRAN

<b>Setup</b> 91	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/20	<b>Time</b> 10:15	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-359	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-358	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 85.1 <b>Ft</b>	<b>Length Surveyed</b> 85.10
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



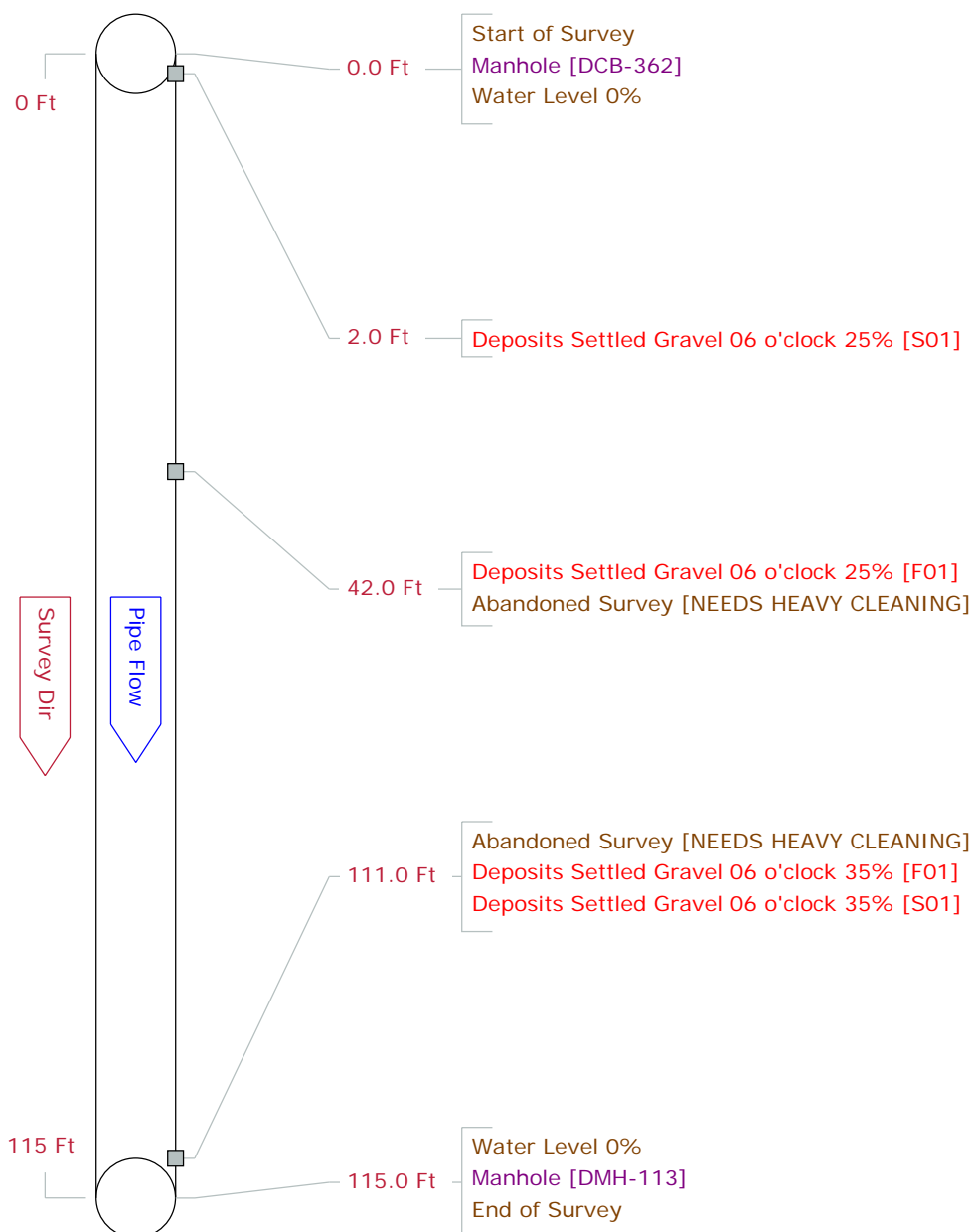
# Pipe Graphic Report of PLR DCB-362 X for WOODARD & CURRAN

<b>Setup</b> 92/93	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/20	<b>Time</b> 10:32	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-113	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-362	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 115.0 <b>Ft</b>	<b>Length Surveyed</b> 04.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



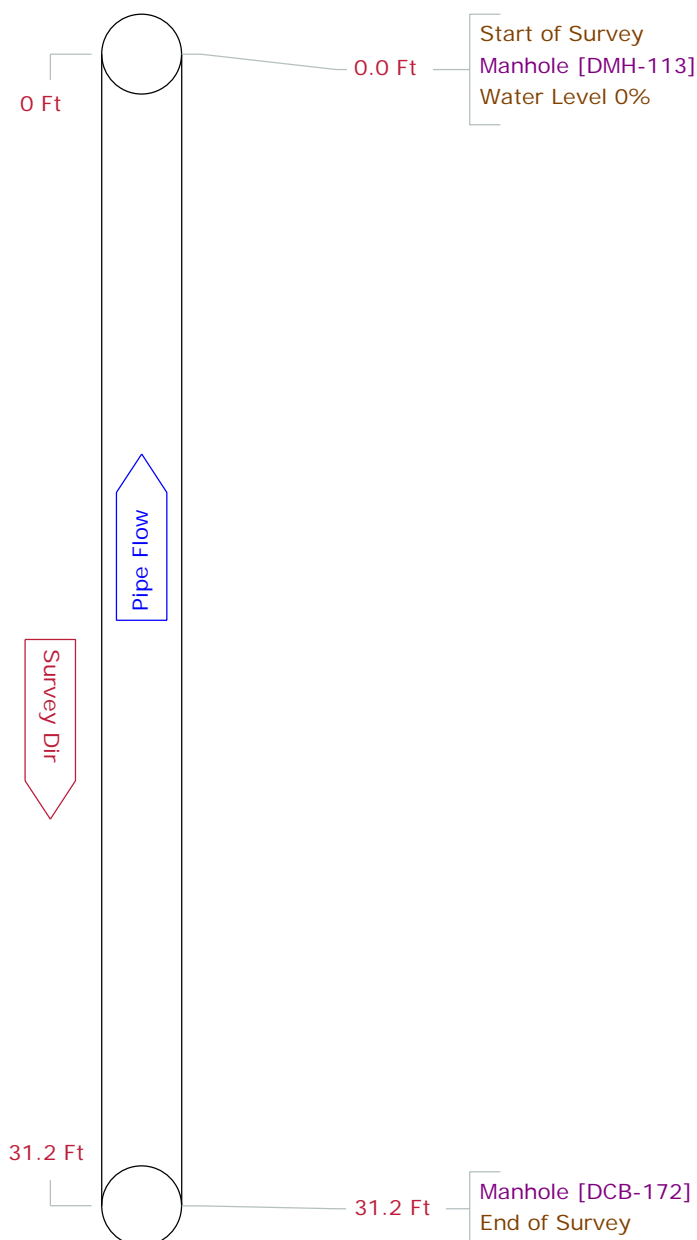
# Pipe Graphic Report of PLR DCB-362 X for WOODARD & CURRAN

<b>Setup</b> 93/92	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/20	<b>Time</b> 10:38	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DCB-362	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DMH-113	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Downstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15	<b>Width</b> ins	<b>Preclean</b> N <b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 115.0 <b>Ft</b>	<b>Length Surveyed</b> 42.00
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b> Reverse set up on sheet:92		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



# Pipe Graphic Report of PLR DCB-172 X for WOODARD & CURRAN

<b>Setup</b> 94	<b>Surveyor</b> WP	<b>Certificate #</b> T-001-002	<b>System Owner</b> SUNY OF ALBANY
<b>Drainage</b> STORM DRAIN	<b>Survey Customer</b> WOODARD & CURRAN		
<b>P/O #</b>	<b>Date</b> 2007/08/20	<b>Time</b> 10:38	<b>Street</b> SUNY OF ALBANY
<b>Locality</b> VARIOUS LOCATIONS	<b>Further location details</b>		
<b>Start</b> DMH-113	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Finish</b> DCB-172	<b>Rim to invert</b>	<b>Grade to invert</b>	<b>Rim to grade</b> <b>Ft</b>
<b>Use</b> Stormwater	<b>Direction</b> Upstream	<b>Flow control</b> Not Controlled	<b>Tape/Media #</b> WP-03
<b>Shape</b> Circular	<b>Height</b> 15 <b>Width</b> ins	<b>Preclean</b> N	<b>Year Cleaned</b>
<b>Material</b> Reinforced Concrete Pipe	<b>Joint length</b> <b>Ft</b>	<b>Total length</b> 31.2 <b>Ft</b>	<b>Length Surveyed</b> 31.20
<b>Lining</b>	<b>Year laid</b>	<b>Year rehabilitated</b>	<b>Weather</b> Dry
<b>Purpose</b> Infiltration/Inflow Investigation	<b>Cat</b>		
<b>Additional info</b>		<b>Structural</b>	<b>O&amp;M</b> <b>Constructional</b>
<b>Location</b> Parking Lot		<b>Miscellaneous</b>	<b>Hydraulic</b>



## **APPENDIX E: CAMPUS IRRIGATION EVALUATION REPORT PREPARED BY NORTHERN DESIGNS, LLC**

# **Campus Irrigation System Evaluation Report**

for:

**UNIVERSITY AT ALBANY**  
State University of New York  
1400 Washington Avenue  
Albany, New York

prepared by:

**NORTHERN DESIGNS LLC**  
2089 Hartford Turnpike  
North Haven, Connecticut 06473  
Tel. 203.239.2710

1 December 2008

Woodard & Curran  
709 Westchester Avenue  
Suite L2  
White Plains, New York 10604

Attn: Anthony Catalano

Re: University at Albany  
1400 Washington Avenue  
Albany, New York

Gentlemen:

As requested, the following report is a complete evaluation of the existing campus wide irrigation system at the University at Albany, 1400 Washington Avenue, Albany, New York. The purposes are two-fold, to provide an inventory and evaluation of the existing irrigation system and to furnish general recommendations to help guide University at Albany in all decisions regarding future modifications or redesign of the campus irrigation system.

The inventory and evaluation will include a review of most of the components which make up the existing irrigation system including sprinklers, valves, piping etc. The review also encompasses existing maintenance procedures and encountered problems including outdated equipment and operational inadequacies.

Due to the lack of existing 'as-built' irrigation plans for the campus wide irrigation system, some components of that system were not evaluated, primarily the mainline piping and zone laterals. As a result, a 'record' GPS drawing was created by Northern Designs LLC, which incorporates information from construction plans for the irrigation systems installed over the years and from on-site field observations. This newly created 'record' plan is an integral part of the inventory process contained within this report.

General recommendations will include overall design guidance as well as some specific recommendations to update existing irrigation components and operation. The summary will aide University at Albany in the types of decisions which will need to be made to bring the overall irrigation system up to par in conjunction with the current watering requirements and operational and maintenance procedures.

We welcome the opportunity to review and discuss, in further detail, our evaluation and recommendations. If you or University at Albany should have any questions please contact us any time.

Very Truly Yours,  
NORTHERN DESIGNS

Michael J. Astram  
*Certified Irrigation Designer*

MJA:sa  
attachment



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## **A. Evaluation Process**

The evaluation consisted of several visits to the campus to do GPS mapping of the existing irrigation systems. In addition, data pertaining to the irrigation system was obtained from on-site observations, discussions with University of Albany maintenance staff and review of the Universities construction plan archives. It should be noted that some information about the irrigation system could not be documented without doing extensive excavation of the system; therefore some information regarding the original irrigation system cannot be confirmed.

## **B. System Overview**

For the purposes of this report the existing campus wide irrigation system is divided into several separate irrigation systems. The original system installed in 1970 provided irrigation to the entire campus and can be seen on the Site Utilities drawings dated 4/1/70. This system now provides irrigation to University Field, Intramural Fields, Practice Fields, Baseball Fields, Artificial Turf Fields, Flag Pole Plaza and Oval at the campus entry and was comprised of manual sprinklers, steel and copper pipe main lines and lateral pipes. A few areas, such as the Flag Pole Plaza and Practice fields have been upgraded over time to include automatic valves, gear drive sprinklers and electronic controllers.

Recently; the Entry Oval irrigation has been capped for future renovations.

The newer irrigation systems include University Hall (2005), Life Science Building (2003), University Police, Boor Sculpture Studio, Artificial Turf Fields (Lacrosse & Field Hockey (2005), Science Library, Empire Commons (2002) and are comprised of an automatic electrically controlled pop-up sprinkler system consisting of gear driven rotor sprinklers, pop-up sprinklers, PVC piping and automatic valves for irrigating both the lawn areas and planting beds.

Recently; the site to the East of University Hall has had an automatic irrigation system installed.

## **C. Water Supplies**

### Inventory

The current water supply for the Southern University Field, Artificial Turf Fields (Lacrosse & Field Hockey), Practice Athletic Fields and Baseball Fields is the lake North of the Baseball Fields

The current water supply for the Boor Sculpture Studio, Life Sciences, Science Library, University Hall and University Police is the potable water supply from the building water supply.

The current water supply for Empire commons is (2) two independent 50 gpm wells.

### Evaluation

The existing lake water supply appears to be sufficient to provide the necessary water and pressure required to irrigate the Southern University Field, Artificial Turf Fields (Lacrosse & Field Hockey), Practice Athletic Fields and Baseball Fields.

The existing potable water connections appear to be sufficient enough to provide the necessary water and pressure required to irrigate the Boor Sculpture Studio, Life Sciences, Science Library, University Hall and University Police lawn and plant material.

### Recommendations

In the effort to conserve water and reduce irrigation water costs it should be determined if the existing lake can provide the necessary water to irrigate the entire campus. If this is possible, the existing potable irrigation systems should be modified to be connected to the lake water supply.

## **D. Irrigation Pump**

### Inventory

The current irrigation pumping system consists of 2 - 40hp (600 gpm each) vertical turbine pumps manufactured by Hayes pumps that produce a system pressure of approximately 100 psi. The pumps located in a pump house sit over a wet well with a flume out to the lake.

### Evaluation

The existing pumps can produce up to 1200 gpm of water to the irrigation system which is enough to irrigate the entire existing campus irrigation system. The pumps are the original pumps and have been recently upgraded with new controls, but are starting to show their age. The leaks in the main line piping have caused the pump to constantly cycle on and off. To alleviate this problem a master valve was installed just west of the artificial turf fields at a location where there are no known leaks in the main line. The master valve is a normally closed valve, so the main line piping would remain fully pressurized which will keep the pumps isolated so they will not cycle on and off. However, this creates another problem. The small section from the pump house is pressurized, but the remaining main line continues to drain, emptying the mainlines. Whenever the irrigation system operates the master valve opens and the water rushes to fill the main line causing pressure surges in the pipe which can weaken the pipe and damage irrigation system components.

### Recommendations

Install a new (VFD) pumping system and with new controls. Repair or replace main line piping. Refer to section on (**Main Line Piping – Pressurized**).

## **E. Water Meters**

### Inventory

The current irrigation systems (Boor Sculpture Studio, Life Sciences, Science Library, University Hall and University Police) are not metered separately from the existing potable water supplies.

The current irrigation system (Empire Commons) well is not metered

The current irrigation systems (University Field, Artificial Turf Fields (Lacrosse & Field Hockey), Practice Athletic Fields and Baseball Fields) are not metered separately from the existing lake water supply. However, it is possible to monitor total water use from the lake from the pump station.

### Evaluation

Much of the water used for irrigation is not metered and even though the existing pump station has the ability to quantify the amount of water that is used over a designated period of time for the Southern University Field, Artificial Turf Fields (Lacrosse & Field Hockey), Practice Athletic Fields and Baseball Fields irrigation systems, there is no ability to know the quantity of water being used for each individual system or zone by zone. Having a system by system or zone by zone water reading allows State University of New York the ability to confirm and isolate a particular zone if a problem has been detected (ie. too much water used by a system/zone may indicate a leak in the pipe or broken valve). Having the capability to isolate water usage readings also allows State University of New York ability to know how much water a certain system or zone is receiving (useful in determining watering requirements for the type of turf or landscape plants being irrigated).

### Recommendations

A new irrigation central control system (refer to section on **Control System**) should be installed. An irrigation central control system with software interface will allow metering, monitoring and management of each system on a zone by zone basis.

## **F. Control System**

### Inventory

A list of independent irrigation controllers installed is provided below.

	<u>Description</u>	<u>Controller</u>	<u>Mfg.</u>
1	University Field	None - Manual System	
2	Intramural Fields	ESP-MC -Partial Automatic Control	Rainbird
3	Baseball Fields	None - Manual System	
4	Artificial Turf	ICC	Hunter
5	Science Library	LX	Rainbird
6	University Police	ICC	Hunter
7	Life Science Building	LX	Rainbird
8	Boor Sculpture Building	ESP-MC	Rainbird
9	University Hall	LX	Rainbird
10	Entry Oval	None - Manual System	
11	Empire Commons	ICC ( 3)	Hunter

### Evaluation

The existing controllers have limited abilities to perform all tasks required for complete irrigation system control. Examples of tasks not currently performed include zone by zone water management, automatic shut-down (during rain storms or equipment malfunction), daily reports on complete system operation, ability to operate irrigation system remotely via handheld radio and system programmability for numerous operational scenarios. The existing system does have the ability to monitor overall water usage to run the system automatically and to monitor time of operation; but it does not allow monitoring on a zone by zone basis. The irrigation controllers are from different manufacturers and not compatible with each other.

### Recommendations

A new irrigation central control system should be installed with a software interface which will allow University of Albany the ability to monitor and manage the irrigation operation from a computer within the facility. To determine the best control system, an overall irrigation system control system design will need to be prepared and operation/management requirements determined and reviewed with the University of Albany facility personnel. The existing manual irrigation systems on campus should be upgraded with automatic control that is compatible with the selected central control system. Replace existing controllers with controllers that are compatible with the selected central control system.

## G. Zones

### Inventory

For purposes of this report the zones for both the lawn/planter beds will be identified utilizing the attached 'GPS' record drawing. The following are the current zone designations:

#### **University Field**

<u>Zone</u>	<u>Description</u>	<u>Heads</u>	<u>Head Mfg.<sup>1</sup></u>	<u>Valve Mfg.<sup>2</sup></u>
1	Sprinklers: Turf	5	Toro 2001 (Part Circle)	Manual Gate Valve
1	Sprinklers: Turf	5	Toro 2001 (Full Circle)	
2	Sprinklers: Turf	4	Toro 2001 (Part Circle)	Manual Gate Valve
2	Sprinklers: Turf	5	Toro 2001 (Full Circle)	

#### **Intramural/Softball Field**

1	Sprinklers: Turf	4	Rainbird 8005 (Full Circle)	Manual Gate Valve
1	Sprinklers: Turf	5	Toro 2001 (Part Circle)	
1	Sprinklers: Turf	9	Toro 2001 (Full Circle)	Manual Gate Valve
2	Sprinklers: Turf	21	Toro 2001 (Full Circle)	
2	Sprinklers: Turf	2	Toro 2001 (Full Circle)	

#### **Practice Fields/Baseball Fields**

1	Sprinklers: Turf	5	Rainbird 8005 (Full Circle)	Rainbird
2	Sprinklers: Turf	4	Rainbird 8005 (Full Circle)	Rainbird
3	Sprinklers: Turf	5	Rainbird 8005 (Full Circle)	Rainbird
4	Sprinklers: Turf	5	Rainbird 8005 (Full Circle)	Rainbird
5	Sprinklers: Turf	4	Rainbird 8005 (Full Circle)	Rainbird
6	Sprinklers: Turf	5	Rainbird 8005 (Full Circle)	Rainbird
7	Sprinklers: Turf	15	Rainbird 8005 (Full Circle)	Manual Gate Valve
8	Sprinklers: Turf	14	Rainbird 8005 (Full Circle)	Manual Gate Valve
9	Sprinklers: Turf	15	Rainbird 8005 (Full Circle)	Manual Gate Valve
10	Sprinklers: Turf	13	Rainbird 8005 (Full Circle)	Manual Gate Valve
11	Sprinklers: Turf	13	Toro 2001 (Full Circle)	Manual Gate Valve
12	Sprinklers: Turf	6	Rainbird 8005 (Full Circle)	Manual Gate Valve
12	Sprinklers: Turf	2	Toro 2001 (Full Circle)	Manual Gate Valve
13	Sprinklers: Turf	10	Toro 2001 (Full Circle)	Manual Gate Valve

#### **Artificial Turf Fields (Lacrosse & Hockey)**

1	Sprinkler: Artificial Turf	3	Quick Coupling Valve	Rainbird
2	Sprinkler: Artificial Turf	3	Quick Coupling Valve	Rainbird
3	Sprinkler: Artificial Turf	3	Quick Coupling Valve	Manual Gate Valve
4	Sprinkler: Artificial Turf	3	Quick Coupling Valve	Manual Gate Valve

## Science Library

1	Spray: Lawn	6	Hunter	Rainbird
2	Sprinkler: Lawn	6	Hunter	Rainbird
3	Sprinkler: Lawn	6	Hunter	Rainbird
4	Sprinkler: Lawn	6	Hunter	Rainbird
5	Sprinkler: Lawn	6	Hunter	Rainbird
6	Sprinkler: Lawn	6	Hunter	Rainbird
7	Sprinkler: Lawn	6	Hunter	Rainbird
8	Sprinkler: Lawn	6	Hunter	Rainbird
9	Sprinkler: Lawn	6	Hunter	Rainbird
10	Sprinkler: Lawn	4	Hunter	Rainbird
11	Sprinkler: Lawn	4	Hunter	Rainbird
12	Sprinkler: Lawn	6	Hunter	Rainbird
13	Sprinkler: Lawn	3	Hunter	Rainbird
14	Spray: Planter	9	Rainbird	Rainbird
15	Spray: Planter	7	Rainbird	Rainbird

## University Police

1	Sprinkler: Lawn	5	Hunter (I20)	Hunter
2	Sprinkler: Lawn	5	Hunter (I20)	Hunter
3	Sprinkler: Lawn	3	Hunter (I20)	Hunter
4	Spray: Lawn/Planter	8	Rainbird (1800)	Hunter

## Boor Sculpture Studio

1	Spray: Lawn	8	Rainbird (1800)	Rainbird
2	Sprinkler: Lawn	4	Hunter (I20)	Rainbird
3	Sprinkler: Lawn	9	Hunter (I20)	Rainbird
4	Sprinkler: Lawn	8	Hunter (I20)	Rainbird
5	Spray: Planter	3	Rainbird (1800)	Rainbird
6	Sprinkler: Lawn	3	Hunter (I20)	Rainbird
7	Sprinkler: Lawn	6	Hunter (I20)	Rainbird
8	Sprinkler: Lawn	6	Hunter (I20)	Rainbird
9	Sprinkler: Lawn	6	Hunter (I20)	Rainbird
10	Sprinkler: Lawn	3	Hunter (I20)	Rainbird
11	Spray: Planter	3	Rainbird (1800)	Rainbird
12	Spray: Lawn	6	Rainbird (1800)	Rainbird
13	Spray: Lawn	6	Rainbird (1800)	Rainbird
14	Spray: Lawn	14	Rainbird (1800)	Rainbird
15	Spray: Lawn	9	Rainbird (1800)	Rainbird
16	Spray: Lawn	10	Rainbird (1800)	Rainbird
17	Sprinkler: Lawn	5	Hunter (I20)	Rainbird

## Life Science Building

1	Sprinkler: Lawn	12	Hunter (I20)	Rainbird
2	Spray: Lawn	35	Rainbird (1800)	Rainbird
3	Sprinkler: Lawn	23	Hunter (I20)	Rainbird
4	Sprinkler: Lawn	19	Hunter (I20)	Rainbird
5	Sprinkler: Lawn	12	Hunter (I20)	Rainbird

6	Spray: Lawn/Planter	18	Rainbird (1800)	Rainbird
7	Spray: Lawn/Planter	28	Rainbird (1800)	Rainbird
8	Spray: Planter	19	Rainbird (1800)	Rainbird
9	Spray: Planter	21	Rainbird (1800)	Rainbird
10	Spray: Planter	13	Rainbird (1800)	Rainbird
11	Sprinkler: Lawn	14	Hunter (I20)	Rainbird
12	Sprinkler: Lawn	14	Hunter (I20)	Rainbird
13	Sprinkler: Lawn	14	Hunter (I20)	Rainbird
14	Spray: Planter	22	Rainbird (1800)	Rainbird
15	Spray: Planter	24	Rainbird (1800)	Rainbird
16	Spray: Lawn	35	Rainbird (1800)	Rainbird
17	Sprinkler: Lawn	18	Hunter (I20)	Rainbird
18	Sprinkler: Lawn	15	Hunter (I20)	Rainbird
19	Spray: Planters	25	Rainbird (1800)	Rainbird
20	Spray: Planters	15	Rainbird (1800)	Rainbird
21	Sprinkler: Lawn	22	Hunter (I20)	Rainbird
22	Sprinkler: Lawn	11	Hunter (I20)	Rainbird
23	Spray: Planters	9	Rainbird (1800)	Rainbird
24	Spray: Planters	9	Rainbird (1800)	Rainbird
25	Spray: Planters	11	Rainbird (1800)	Rainbird
26	Spray: Planters	11	Rainbird (1800)	Rainbird
27	Spray: Lawn	18	Rainbird (1800)	Rainbird
28	Spray: Lawn	28	Rainbird (1800)	Rainbird
29	Sprinkler: Lawn	12	Hunter (I20)	Rainbird
30	Spray: Lawn	15	Rainbird (1800)	Rainbird
31	Spray: Lawn	25	Rainbird (1800)	Rainbird
32	Spray: Planters	30	Rainbird (1800)	Rainbird
32	Spray: Planters	36	Rainbird (1800)	Rainbird

### University Hall

1	Sprinkler: Lawn	8	Hunter (I20)	Rainbird
2	Sprinkler: Lawn	5	Hunter (I20)	Rainbird
3	Sprinkler: Lawn	2	Hunter (I20)	Rainbird
4	Sprinkler: Lawn	5	Hunter (I20)	Rainbird
5	Sprinkler: Lawn	5	Hunter (I20)	Rainbird
6	Sprinkler: Lawn	2	Hunter (I20)	Rainbird

### Flag Pole Plaza

1	Sprinkler: Lawn	8	Hunter (I20)	Rainbird
2	Sprinkler: Lawn	5	Hunter (I20)	Rainbird
3	Sprinkler: Lawn	2	Hunter (I20)	Rainbird
4	Sprinkler: Lawn	5	Hunter (I20)	Rainbird
5	Sprinkler: Lawn	5	Hunter (I20)	Rainbird
6	Sprinkler: Lawn	2	Hunter (I20)	Rainbird
7	Sprinkler: Lawn	5	Hunter (I20)	Rainbird
8	Sprinkler: Lawn	8	Hunter (I20)	Rainbird
9	Sprinkler: Lawn	8	Hunter (I20)	Rainbird
10	Spray: Planter	12	Rainbird (1800)	Rainbird
11	Spray: Planter	10	Rainbird (1800)	Rainbird



## Empire Commons

### Controller #1

1	Spray: Planters	20	Rainbird (1800)	Rainbird
2	Spray: Planters	30	Rainbird (1800)	Rainbird
3	Spray: Planters	8	Rainbird (1800)	Rainbird
4	Sprinkler: Lawn	12	Hunter (I20)	Rainbird
5	Sprinkler: Lawn	14	Hunter (I20)	Rainbird
6	Sprinkler: Lawn	12	Hunter (I20)	Rainbird
7	Spray: Planters	14	Rainbird (1800)	Rainbird
8	Spray: Lawn	34	Rainbird (1800)	Rainbird
9	Spray: Lawn	33	Rainbird (1800)	Rainbird
10	Spray: Planter	17	Rainbird (1800)	Rainbird
11	Spray: Planter	14	Rainbird (1800)	Rainbird
12	Spray: Planter	8	Rainbird (1800)	Rainbird
13	Spray: Lawn	10	Rainbird (1800)	Rainbird
14	Sprinkler: Lawn	14	Hunter (I20)	Rainbird
15	Sprinkler: Lawn	18	Hunter (I20)	Rainbird
16	Sprinkler: Lawn	10	Hunter (I20)	Rainbird
17	Spray: Lawn	14	Rainbird (1800)	Rainbird
18	Spray: Lawn	9	Rainbird (1800)	Rainbird
19	Spray: Lawn	19	Rainbird (1800)	Rainbird
20	Spray: Lawn	6	Rainbird (1800)	Rainbird
21	Spray: Lawn	14	Rainbird (1800)	Rainbird
22	Spray: Lawn	24	Rainbird (1800)	Rainbird
23	Spray: Lawn	27	Rainbird (1800)	Rainbird
24	Spray: Lawn	20	Rainbird (1800)	Rainbird
25	Sprinkler: Lawn	21	Hunter (I20)	Rainbird
26	Sprinkler: Lawn	34	Hunter (I20)	Rainbird
27	Sprinkler: Lawn	12	Hunter (I20)	Rainbird
28	Sprinkler: Lawn	9	Hunter (I20)	Rainbird

### Controller #2

1	Sprinkler: Lawn	7	Hunter (I20)	Rainbird
2	Spray: Lawn	21	Rainbird (1800)	Rainbird
3	Spray: Planters	16	Rainbird (1800)	Rainbird
4	Spray: Lawn	21	Rainbird (1800)	Rainbird
5	Spray: Lawn	23	Rainbird (1800)	Rainbird
6	Spray: Lawn	21	Rainbird (1800)	Rainbird
7	Spray: Planters	16	Rainbird (1800)	Rainbird
8	Spray: Lawn	22	Rainbird (1800)	Rainbird
9	Spray: Lawn	5	Rainbird (1800)	Rainbird
10	Spray: Lawn	8	Rainbird (1800)	Rainbird
11	Spray: Lawn	23	Rainbird (1800)	Rainbird
12	Sprinkler: Lawn	15	Hunter (I20)	Rainbird
13	Sprinkler: Lawn	8	Hunter (I20)	Rainbird
14	Sprinkler: Lawn	5	Hunter (I20)	Rainbird
15	Spray: Planters	16	Rainbird (1800)	Rainbird

16	Sprinkler: Lawn	14	Hunter (I20)	Rainbird
17	Sprinkler: Lawn	14	Hunter (I20)	Rainbird
18	Spray: Lawn	17	Rainbird (1800)	Rainbird
19	Spray: Lawn	11	Rainbird (1800)	Rainbird
20	Sprinkler: Lawn	23	Hunter (I20)	Rainbird
21	Sprinkler: Lawn	10	Hunter (I20)	Rainbird
22	Sprinkler: Lawn	5	Hunter (I20)	Rainbird

#### Controller #3

1	Spray: Planters	5	Rainbird (1800)	Rainbird
2	Sprinkler: Lawn	5	Hunter (I20)	Rainbird
3	Sprinkler: Lawn	9	Hunter (I20)	Rainbird
4	Sprinkler: Lawn	7	Hunter (I20)	Rainbird
5	Sprinkler: Lawn	8	Hunter (I20)	Rainbird
6	Sprinkler: Lawn	6	Hunter (I20)	Rainbird
7	Spray: Lawn	5	Rainbird (1800)	Rainbird
8	Sprinkler: Lawn	9	Hunter (I20)	Rainbird
9	Spray: Lawn	22	Rainbird (1800)	Rainbird
10	Sprinkler: Lawn	21	Hunter (I20)	Rainbird
11	Spray: Lawn	21	Rainbird (1800)	Rainbird
12	Spray: Lawn	6	Rainbird (1800)	Rainbird
13	Spray: Lawn	9	Rainbird (1800)	Rainbird
14	Spray: Lawn	23	Rainbird (1800)	Rainbird
15	Spray: Lawn	18	Rainbird (1800)	Rainbird
16	Spray: Lawn	22	Rainbird (1800)	Rainbird
17	Spray: Lawn	17	Rainbird (1800)	Rainbird
18	Spray: Lawn	23	Rainbird (1800)	Rainbird
19	Spray: Lawn	6	Rainbird (1800)	Rainbird
20	Spray: Lawn	23	Rainbird (1800)	Rainbird
21	Spray: Lawn	9	Rainbird (1800)	Rainbird
22	Spray: Lawn	23	Rainbird (1800)	Rainbird

#### Controller #4

1	Spray: Lawn	12	Rainbird (1800)	Rainbird
2	Spray: Planter	6	Rainbird (1800)	Rainbird
3	Spray: Lawn	11	Rainbird (1800)	Rainbird
4	Spray: Lawn	8	Rainbird (1800)	Rainbird
5	Sprinkler: Lawn	12	Hunter (I20)	Rainbird
6	Sprinkler: Lawn	8	Hunter (I20)	Rainbird
7	Spray: Lawn	12	Rainbird (1800)	Rainbird
8	Spray: Lawn	6	Rainbird (1800)	Rainbird
9	Spray: Lawn	5	Rainbird (1800)	Rainbird
10	Spray: Lawn	19	Rainbird (1800)	Rainbird
11	Spray: Planter	8	Rainbird (1800)	Rainbird
12	Spray: Planter	6	Rainbird (1800)	Rainbird
13	Spray: Lawn	22	Rainbird (1800)	Rainbird
13	Spray: Lawn	21	Rainbird (1800)	Rainbird
14	Spray: Planter	8	Rainbird (1800)	Rainbird
15	Spray: Planter	6	Rainbird (1800)	Rainbird
16	Spray: Lawn	21	Rainbird (1800)	Rainbird

17	Sprinkler: Lawn	12	Hunter (I20)	Rainbird
18	Spray: Lawn	30	Rainbird (1800)	Rainbird
19	Spray: Planter	13	Rainbird (1800)	Rainbird
20	Sprinkler: Lawn	16	Hunter (I20)	Rainbird
21	Sprinkler: Lawn	14	Hunter (I20)	Rainbird
22	Sprinkler: Lawn	14	Hunter (I20)	Rainbird
23	Sprinkler: Lawn	8	Hunter (I20)	Rainbird
24	Sprinkler: Lawn	18	Hunter (I20)	Rainbird
25	Spray: Lawn	22	Rainbird (1800)	Rainbird
26	Sprinkler: Lawn	10	Hunter (I20)	Rainbird
27	Sprinkler: Lawn	7	Hunter (I20)	Rainbird
28	Sprinkler: Lawn	10	Hunter (I20)	Rainbird
29	Sprinkler: Lawn	13	Hunter (I20)	Rainbird

1. Refer to section on **Sprinklers** for specific model numbers.
2. Refer to section on **Automatic Zone Valves** for specific model numbers.

## Evaluation

### University Field:

Install new automatic irrigation system with sprinklers properly spaced to provide efficient irrigation.

### Intramural Fields/Softball Fields

Irrigation zoning is not done properly especially on the softball field. Sprinklers are not located properly to provide efficient irrigation.

### Artificial Turf Fields

Did not see manual irrigation system operate, but locations of hydrants and quick couplers are in accordance with current irrigation techniques for synthetic turf fields.

### Practice Fields/Baseball Fields

A portion of the existing practice fields have been automated, but the majority of the fields still operate manually. Sprinklers are not located properly to provide efficient irrigation.

### Science Library

Existing irrigation system zoning is sufficient. We could not locate water source for the island irrigation.

### University Police

Existing irrigation system zoning is sufficient.

### Life Science Building

Irrigation zoning appears to be installed according to original planting plan by the Landscape Architect. It appears not all the plant beds were installed (groundcover) as the plan shows, but the irrigation was.

### Boor Sculpture Building

Existing irrigation system is sufficient. There appeared to be a leak in the system near a newly installed tree. A water audit should be performed to provide a more in depth evaluation of the efficiency of the irrigation system.

### University Hall

Existing irrigation system is sufficient.

Entry Oval  
Not evaluated.

Empire Commons  
Existing irrigation system is sufficient, though a large number of spray heads with nozzles are not efficient and a lot of run-off in pavement areas.

## Recommendations

University Field:  
Install new automatic irrigation system with sprinklers properly spaced to provide efficient irrigation.

Intramural Fields/Softball Fields  
Install new automatic irrigation system with sprinklers properly spaced to provide efficient irrigation.

Artificial Turf Fields  
Existing irrigation system is sufficient.

Practice Fields/Baseball Fields  
Install new automatic irrigation system with sprinklers properly spaced to provide efficient irrigation.

Science Library  
Existing irrigation system is sufficient; but a water audit should be performed to provide a more in depth evaluation of the efficiency of the irrigation system.

University Police  
Existing irrigation system is sufficient; but a water audit should be performed to provide a more in depth evaluation of the efficiency of the irrigation system.

Life Science Building  
Irrigation appears to be installed according to original planting plan by the Landscape Architect. It appears not all the plant beds were installed (groundcover) as the plan shows, but the irrigation was. System should be modified to adjust to the revised plantings. A water audit should be performed to provide a more in depth evaluation of the efficiency of the irrigation system.

Boor Sculpture Building  
Existing irrigation system is sufficient, though there appeared to be a leak in the system near a newly installed tree. A water audit should be performed to provide a more in depth evaluation of the efficiency of the irrigation system.

University Hall  
Existing irrigation system is sufficient; but a water audit should be performed to provide a more in depth evaluation of the efficiency of the irrigation system.

Entry Oval  
A new system is currently planned for the site.

Empire Commons  
Existing irrigation system is sufficient; but a water audit should be performed to provide a more in depth evaluation of the efficiency of the irrigation system. The system has a large number of spray heads with nozzles that are not efficient. Replacing the existing nozzles with high efficiency nozzles such as MP Rotator by Hunter Industries should be examined.

## **H. Drip Irrigation System**

### Inventory

There is currently no drip irrigation used on site.

### Evaluation

Drip irrigation is the most efficient way to irrigate, and although drip has been used mostly in plant beds it has recently been used in turf.

### Recommendations

In light of today's need for water conservation the use of drip irrigation should be reviewed with the University of Albany facility personnel.

## **I. Rain Sensor**

### Inventory

There are rain sensors currently located on several buildings. The majority of the rain sensors appear to be Mini-Clik as manufactured by Hunter Industries, but a couple of the rain sensor type and model could not be determined.

	<u>Description</u>	<u>Rain Sensor</u>
1	University Field	None - Manual System
2	Intramural Fields	Yes
3	Baseball Fields	None - Manual System
4	Artificial Turf	None
5	Science Library	Yes
6	University Police	Could not locate
7	Life Science Building	Yes
8	Boor Sculpture Building	Yes
9	University Hall	Could not locate
10	Entry Oval	None - Manual System
11	Empire Commons	Yes

### Evaluation

Rain sensors will shut down the irrigation during rainfall events. They are the least expensive way to save water.

## Recommendations

Add rain sensors where needed and confirm the existing rain sensor are functioning. If a new central control system is installed then the installation of a campus wide weather station should be reviewed with the University of Albany facility personnel.

## **J. Moisture Sensor**

### Inventory

There currently are no moisture sensors installed on any of the irrigation systems.

### Evaluation

Moisture sensors are an important component to an irrigation system. The sensors give a representative indication of how much water the turf and plant material are receiving from the irrigation system, and adjusts the system accordingly to compensate for too little or too much water.

### Recommendations

The installation of moisture sensors should be reviewed with the University of Albany facility personnel.

## **K. Automatic Zone Valves**

### Inventory

There are three (3) different automatic (solenoid) valves installed around the campus. The three (3) valves are the Rainbird series PEB, Weathermatic series #8200 and Hunter ICV. These valves are plastic solenoid valves.

### Evaluation

Generally the operation of all the automatic zone valves was found to be satisfactory.

### Recommendations

Although the existing automatic valves are satisfactory and should remain, any valve that fails should be replaced with a model PESB valve as manufactured by Rainbird. These valves are an industrial-strength glass-filled nylon globe valve with self-cleaning scrubber and stainless steel screen for reliable performance in dirty water irrigation applications.

## **L. Gate Valves – Main Line**

### Inventory

We could only locate one gate valve and were unable to determine the manufacturer. According to University of Albany maintenance staff more valves are located on the main lines, but are buried below grade.

### Evaluation

The isolation valves provide two purposes. The first is to provide facility personnel the ability to shut down portions of the irrigations system for maintenance, testing or emergency purposes. Not being able to isolate certain areas is a major factor when trying to determine where the leaks are in the (1970) main line piping. Secondly, they are used to turn on the irrigation on many of the athletic fields since the majority of the fields (University Field, Practice Athletic Fields and Baseball Fields) still have manual irrigation systems.

### Recommendations

Gate valves should be installed in key locations along the existing main lines to isolate specific areas of the irrigation system. Automate existing manual irrigation systems.

## **M. Ball Valves – Lateral lines**

### Inventory

Only one site, the Life Sciences Building, was located with ball valves installed for manual isolation. No other valves were found.

### Evaluation

As with main line gate valves the ball valves provide the ability for facility personnel to shut down portions of the irrigation system for maintenance or emergency purposes at the individual irrigation zone level. Although the current automatic valves can be manually shut down, if an automatic valve was to malfunction or need to be replaced there is no way to shut the irrigation zone down with out shutting down the entire system.

### Recommendations

As existing valve assemblies are replaced install manual ball valves for isolation. Incorporate into the design of future irrigation systems ball valves installed on all valve assemblies for isolation.

## **N. Automatic Valve Assembly and Fittings**

### Inventory

All of the automatic valve assemblies, consisting of multiple automatic valves, are installed in plastic valve boxes. The piping connecting the automatic valve assemblies to the main line is PVC.

### Evaluation

The majority of the valve boxes appear to be in good shape.

### Recommendations

Valve boxes should be cleaned out a few inches below the automatic valve and pea gravel added for drainage. Any valve box covers that are damaged or missing should be replaced to eliminate anyone from tripping and causing a possible litigation problem.

## **O. Sprinklers - Landscape**

### Inventory

The current lawn/planter bed irrigation systems consists of three (3) types of pop-up rotary sprinklers and two (2) types of pop-up spray heads. The sprinkler heads include Rainbird 3000 series, Hunter I-20 series and Hunter PGP series. The spray heads include Rainbird 1800 series and Toro 570 series. All existing sprinkler and spray heads are of current manufacture.

### Evaluation

The existing landscape sprinklers are functioning properly; however there are heads that are clogged, are throwing on pavement and plant material which has grown over time blocking sprinklers. There is a lot of run-off of spray heads around the Empire Commons. Water running down pavement, blocked by plant material is a waste of water.

### Recommendations

All sprinklers should be check periodically and adjusted so as to not overspray on sidewalks, buildings, windows, etc. This applies to both arc and radius adjustments. Check to see if vegetation has blocked sprinklers. Remove vegetation or other obstructions. Raise or lower heads flush with grade. A water audit should be performed to determine the efficiency of each irrigation system. If the existing systems are to be modified and heads need replacing the following heads should be used: Rainbird 1800 series pop-up spray heads and Hunter I-20 series



pop-up rotary sprinklers. Existing spray nozzles should be replaced with high efficient MP Rotator nozzles manufactured by Hunter Industries for water conservation.

## **P.     Sprinklers – Athletic Fields**

### Inventory

The current athletic field irrigation systems consist of two (2) types of pop-up rotary sprinklers. The sprinkler heads include Rainbird 8005 series and Toro 2001 series. All existing sprinkler and spray heads are of current manufacture.

### Evaluation

The current sprinkler spacing of (80'+) do not provide the most efficient distribution of water. The nozzle selection and operating pressure of these sprinklers are at the very end of the recommended range. This is because this sprinkler is the only one that could fit in the existing sprinkler locations installed in 1970. Large diameter sprinklers, by their nature, deliver a large volume of water over a large area - presenting undesirable heavy precipitation rates. The large diameter sprinklers, averaging 150' diameter or more, deliver water on the fields at rates that exceed some soil infiltration rates found on the athletic fields. This method of operation also applies a great deal of water to areas where it is least needed or wanted. In addition, large diameter sprinklers are more susceptible to wind.

### Recommendations

The irrigation systems in the athletic fields should be replaced with properly spaced sprinklers and high efficient nozzles to provide a higher distribution of uniformity (DU), thus conserving water.

## **Q.     Main Line Piping - Pressurized**

### Inventory

Main line piping of the irrigation system installed in 1970 appears to be steel and copper pipe. This pipe is buried at depths of (3') three feet or greater below finished grade.

All main line pipe installed at the Boor Sculpture Studio, Life Sciences, Science Library, University Hall, University Police, Artificial Turf Fields (Lacrosse & Field Hockey) and Empire Commons appears to be SDR 21 200 psi rated PVC pipe with solvent weld joints. SDR-21 PVC pipe with gasketed joints appears to be installed on the Artificial Turf Fields (Lacrosse & Field Hockey).

SDR-21 PVC pipe has also been installed whenever repairs were preformed on University Field,

Practice Athletic Fields, Intramural Fields and Baseball Field athletic field irrigation system.

### Evaluation

The steel and copper piping installed in the 1970 system installation could not be evaluated. However, based on discussions with University of Albany maintenance staff, whenever the main lines are excavated they appear to be clean. The older main lines leak and it has proved extremely difficult to locate these leaks. Since the main line piping leaks the irrigation pumps cycle on and off constantly trying to maintain pressure in the lines. This cycling is a waste of energy and causes unnecessary wear on the irrigation pumps. The cycling has proved to be such a problem that a master valve was installed on the main line to solve the problem.

The PVC piping installed at the Boor Sculpture Studio, Life Sciences, Science Library, University Hall, University Police, Artificial Turf Fields (Lacrosse & Field Hockey) and Empire Commons appears to be in good condition.

### Recommendations

The master valve installed on the 10" line from the irrigation pump is just a band-aid. The main line leaks should be repaired. If this is not possible a new irrigation main line should be installed utilizing High Density Polyethylene Piping (HDPE).

The PVC piping installed at the Boor Sculpture Studio, Life Sciences, Science Library, University Hall, University Police, Artificial Turf Fields (Lacrosse & Field Hockey) and Empire Commons is adequate.

## **R. Lateral Piping - Non Pressurized**

### Inventory

All lateral pipe found appears to be SDR 21 200 psi rated PVC pipe with solvent weld joints or 100 psi polyethylene pipe.

### Evaluation

The PVC and polyethylene piping installed at the Boor Sculpture Studio, Life Sciences, Science Library, University Hall, University Police, Artificial Turf Fields (Lacrosse & Field Hockey) and Empire Commons appears to be in good condition.

The lateral piping installed at the University Field, Intramural Fields, Practice Fields and Baseball Fields appear to be a mix of copper and steel from the original 1970 system and PVC from repairs or modifications done over the years. The piping is also installed at depths greater than 18".

## Recommendations

The PVC and polyethylene piping installed at the Boor Sculpture Studio, Life Sciences, Science Library, University Hall, University Police, Artificial Turf Fields (Lacrosse & Field Hockey) and Empire Commons is fine and just needs to be properly maintained. However, I would recommend the use of polyethylene pipe on any future landscape irrigation system and PVC on any Athletic Fields.

The piping installed at the University Field, Intramural Fields, Practice Fields and Baseball Fields is sufficient for now, however our recommendation is to have the irrigation systems at the University Field, Intramural Fields, Practice Fields and Baseball Fields replaced at which time all the lateral piping would be replaced.

## **S. Wiring**

### Inventory

Wire from the field controllers to the 24 volt automatic zone valves is UF (Underground Feeder) multi-cable designated as 'irrigation wire' with 600 volt rating and UL listing.

### Evaluation

The 24V control wire has not provided any major maintenance problems. Splices used extensively throughout the system consist of wire nuts with silicone fill.

### Recommendation

Multi-cable is acceptable, but would recommend using single strand commercial grade 14-1 control wire and 12-1 ground wire. All wire connections should use 3M Scotchlok DBY, moisture resistant connectors.

## **T. Summary**

The existing irrigation system installed at University Field, Intramural Fields, Practice Fields and Baseball Fields is outdated and inefficiently designed. The existing irrigation system installed at the Boor Sculpture Studio, Life Sciences, Science Library, University Hall, University Police, Artificial Turf Fields (Lacrosse & Field Hockey) and Empire Commons although functional should each be audited for water conservation.

It is Northern Design's recommendation to include the following:

1. Create a campus wide set of irrigation standards and guidelines.

2. Repair existing irrigation main lines or replace with High Density Polyethylene piping.
3. Hydraulic analysis of existing main line piping distribution to see if it will accommodate possible future irrigation systems, changes required for existing pipe sizes and to determine pumping requirements for a possible master irrigation plan.
4. Install new pump station with a higher efficiency. Pump stations today are more efficient and can be connected to the central control system and monitored by central control system.
5. Install irrigation central control system for entire campus. Install flow meters and moisture sensors on individual irrigation systems and connect to central control.
6. Replace existing irrigation controllers with controllers compatible with new central control system.
7. Install new automatic irrigation system on lower practice fields and baseball fields.
8. Install new automatic irrigation system on Intramural fields and softball fields.
9. Install new automatic irrigation system on University Field.
10. Connect existing potable water irrigation (Boor Sculpture Studio, Life Sciences, Science Library, University Hall and University Police) systems to lake water supply.
11. Install weather station. Weather station could be installed with central control system, but if money is not available this item could wait while other more important items are completed.
12. Perform a water audit on existing irrigation systems. A water audit is a site specific micro-level evaluation of an irrigation system. This audit reviews sprinkler type, nozzle size, sprinkler spacing and sprinkler system uniformity, all which when combined provide the end user with a complete profile of the irrigation system and how a more efficient use of water could be achieved.