

OVERALL COMPONENT SUMMARY

Interceptor Line Assessment and Cleaning (Phase II) - Project No. 2025029

Segment ID	Segment Name	Town/Area	Size (Inches)	Upstream MH	Downstream MH	Footage
J	Cane Creek	Fletcher	24	MH 15-23559	MH 15-29479	6,085
K	South Swannanoa (1)	Asheville (Walmart)	24	MH 1-45354	MH 1-45134	6,812
L	South Swannanoa (2)	Asheville (to Junction Box)	36	MH 1-45134	MH 11-27156	2,681
M	Middle Swannanoa (3)	Warren Wilson to Lowes	48	MH 55-82609	MH 36-32065	37,128
N	Lower Swannanoa (1)	Asheville (Lowes to Kennilworth)	54	MH 36-32065	MH 31-32047	2,547
O	Lower Swannanoa (2)	Asheville (Kennilworth to J. Box)	60	MH 31-32047	MH 11-37618	6,557
					TOTAL:	61,811

* Overall Summary (see separate sheets J through O for details regarding each segment; listed upstream to downstream)

** Note: Pipe segments on individual sheets are not all "manhole to manhole". Some are to bends or other fixtures which have upstream and downstream ID Nos. These special components (bends, etc.) are listed with an asterisk and are not manholes.

Total Pipe Segments: 284

PIPE SIZE SUMMARY

Interceptor Line Assessment and Cleaning (Phase II) - Project No. 2025029

Pipe Size Range	Footage
24 to 30 Inches	12,898
36 to 48 inches	39,809
54 to 60 inches	9,104
Total:	61,811

Segment J	Cane Creek	Upstream MH: 15-23559	Downstream MH: 15-29479	Size: 24 inches	Footage: 6085 ft
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Segment ID	Segment Name	Town/Area	Basin	Upstream MH	Downstream MH	Pipe segment ID	Diameter	Material	Length	US MH Depth	DS MH Depth
J	Cane Creek	Fletcher	15	15-23559	15-29457	15-380656	24	DIP	181.0	13.98	13.40
J	Cane Creek	Fletcher	15	15-29457	15-29458	15-379295	24	DIP	388.8	13.40	13.40
J	Cane Creek	Fletcher	15	15-29458	15-29459	15-379296	24	DIP	411.2	13.40	13.50
J	Cane Creek	Fletcher	15	15-29459	15-29460	15-379913	24	DIP	280.5	13.50	12.70
J	Cane Creek	Fletcher	15	15-29460	15-29461	15-380303	24	DIP	507.6	12.70	11.60
J	Cane Creek	Fletcher	15	15-29461	15-29462	15-379258	24	DIP	316.4	11.60	12.30
J	Cane Creek	Fletcher	15	15-29462	15-29463	15-378922	24	DIP	316.0	12.30	12.70
J	Cane Creek	Fletcher	15	15-29463	15-29465	15-380459	24	DIP	99.6	12.70	12.20
J	Cane Creek	Fletcher	15	15-29465	15-29466	15-380135	24	DIP	496.4	12.20	10.90
J	Cane Creek	Fletcher	15	15-29466	15-29467	15-380739	24	DIP	495.4	10.90	11.00
J	Cane Creek	Fletcher	15	15-29467	15-29468	15-380397	24	DIP	296.6	11.00	10.60
J	Cane Creek	Fletcher	15	15-29468	15-29475	15-379093	24	DIP	707.1	10.60	8.30
J	Cane Creek	Fletcher	15	15-29475	15-29477	15-378879	24	DIP	484.2	8.30	7.70
J	Cane Creek	Fletcher	15	15-29477	15-29476	15-378341	24	DIP	318.3	7.70	6.80
J	Cane Creek	Fletcher	15	15-29476	15-29478	15-379094	24	DIP	496.2	6.80	6.90
J	Cane Creek	Fletcher	15	15-29478	15-29479	15-379269	24	DIP	289.9	6.90	7.70

16 pipes

Total: 6085.4

Segment K	S. Swannanoa (1)	Upstream MH: 1-45354	Downstream MH: 1-45134	Size: 24 inches	Footage: 6812 ft
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Segment ID	Segment Name	Town/Area	Basin	Upstream MH	Downstream MH	Pipe segment ID	Diameter	Material	Length	US MH Depth	DS MH Depth
K	South Swannanoa (1)	Asheville (Walmart)	1	1-45354	1-45353	1-394729	24	RCP	160.5	23.94	12.55
K	South Swannanoa (1)	Asheville (Walmart)	1	1-45353	1-45352	1-391470	24	RCP	350.1	12.55	2.67
K	South Swannanoa (1)	Asheville (Walmart)	1	1-45352	1-12744	1-391580	24	RCP	283.5	2.67	8.40
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12744	1-12743	1-389978	24	RCP	236.9	8.40	11.70
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12743	1-12742	1-387899	24	VCP	106.3	11.70	11.60
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12742	1-39735	1-396910	24	VCP	557.8	11.60	9.42
K	South Swannanoa (1)	Asheville (Walmart)	1	1-39735	1-39734	1-393328	24	PVC	622.2	9.42	9.56
K	South Swannanoa (1)	Asheville (Walmart)	1	1-39734	1-45351	1-393443	24	RCP	348.5	9.56	8.97
K	South Swannanoa (1)	Asheville (Walmart)	1	1-45351	1-12721	1-393613	24	RCP	59.9	8.97	5.80
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12721	1-12722	1-393768	24	RCP	41.6	5.80	8.10
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12722	1-12718	1-398935	24	VCP	285.2	8.10	7.60
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12718	1-12719	1-398937	24	DIP	12.8	7.60	7.90
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12719	1-12717	1-398936	24	VCP	382.7	7.90	7.50
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12717	1-12716	1-398721	24	VCP	405.0	7.50	5.80
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12716	1-12715	1-396901	24	VCP	177.3	5.80	6.96
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12715	1-12714	1-392878	24	VCP	169.7	6.96	10.50
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12714	1-12713	1-396616	24	VCP	8.0	10.50	11.70
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12713	1-47529	1-395773	24	VCP	82.8	11.70	7.40
K	South Swannanoa (1)	Asheville (Walmart)	1	1-47529	1-39758	1-397495	24	VCP	479.9	7.40	7.67
K	South Swannanoa (1)	Asheville (Walmart)	1	1-39758	1-12712	1-395322	24	XXX	479.0	7.67	9.80
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12712	1-45650	1-392033	24	RCP	252.0	9.80	7.35
K	South Swannanoa (1)	Asheville (Walmart)	1	1-45650	1-12711	1-390911	24	RCP	323.2	7.35	9.45
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12711	1-12709	1-398124	24	VCP	294.6	9.45	9.20
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12709	1-12710	1-390562	24	VCP	294.0	9.20	11.24
K	South Swannanoa (1)	Asheville (Walmart)	1	1-12710	1-45134	1-393984	24	VCP	398.7	11.24	11.56

25 pipes

Total: 6812.3

Segment L	South Swannanoa (2)		Upstream MH: 1-45134	Downstream MH: 11-27156	Size: 36 inches	Footage: 2681 ft
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Segment ID	Segment Name	Town/Area	Basin	Upstream MH	Downstream MH	Pipe segment ID	Diameter	Material	Length	US MH Depth	DS MH Depth
L	South Swannanoa (2)	Asheville (to Junction Box)	1	1-45134	1-11405	1-396874	36	DIP	10.1	11.56	12.90
L	South Swannanoa (2)	Asheville (to Junction Box)	1	1-11405	1-11414	1-396757	36	RCP	113.1	12.90	13.30
L	South Swannanoa (2)	Asheville (to Junction Box)	1	1-11414	1-11413	1-388405	36	VCP	73.2	13.30	14.00
L	South Swannanoa (2)	Asheville (to Junction Box)	1	1-11413	1-39774	1-390041	36	RCP	107.3	14.00	2.72
L	South Swannanoa (2)	Asheville (to Junction Box)	1	1-39774	*1-317326	1-387388	36	RCP	181.3	2.72	0.00
L	South Swannanoa (2)	Asheville (to Junction Box)	11	*1-317326	*11-39792	11-394805	36	RCP	183.8	0.00	0.00
L	South Swannanoa (2)	Asheville (to Junction Box)	11	*11-39792	11-109028	11-397991	36	RCP	175.8	0.00	0.00
L	South Swannanoa (2)	Asheville (to Junction Box)	1	11-109028	1-39791	1-396085	36	PVC	170.2	0.00	2.13
L	South Swannanoa (2)	Asheville (to Junction Box)	1	1-39791	1-100067	1-397822	36	RCP	164.3	2.13	13.68
L	South Swannanoa (2)	Asheville (to Junction Box)	1	1-100067	10-39790	1-397891	36	RCP	116.7	13.68	3.47
L	South Swannanoa (2)	Asheville (to Junction Box)	10	10-39790	10-39789	10-397975	36	RCP	248.4	3.47	2.96
L	South Swannanoa (2)	Asheville (to Junction Box)	10	10-39789	*10-358862	10-393760	36	PVC	107.5	2.96	0.00
L	South Swannanoa (2)	Asheville (to Junction Box)	10	*10-358862	*10-361162	10-395654	36	DIP	108.4	0.00	0.00
L	South Swannanoa (2)	Asheville (to Junction Box)	10	*10-361162	10-39787	10-394326	36	DIP	39.6	0.00	0.00
L	South Swannanoa (2)	Asheville (to Junction Box)	10	10-39787	*10-353756	10-395261	36	DIP	140.2	0.00	0.00
L	South Swannanoa (2)	Asheville (to Junction Box)	10	*10-353756	10-27191	10-397731	36	DIP	62.5	0.00	4.27
L	South Swannanoa (2)	Asheville (to Junction Box)	10	10-27191	10-109034	10-397710	36	DIP	34.2	4.27	0.00
L	South Swannanoa (2)	Asheville (to Junction Box)	10	10-109034	10-12001	10-395570	36	DIP	303.3	0.00	10.60
L	South Swannanoa (2)	Asheville (to Junction Box)	10	10-12001	11-27155	10-397927	24	RCP	108.3	10.60	11.80
L	South Swannanoa (2)	Asheville (to Junction Box)	10	10-12001	11-27155	10-396155	16	PVC	106.4	10.60	11.80
L	South Swannanoa (2)	Asheville (to Junction Box)	11	11-27155	11-27156	11-392775	36	XXX	126.5	11.80	16.18

21 pipes

2 parallel smaller pipes under river (payout as 36")

Total: 2680.9

Segment M	Middle Swannanoa (3)		Upstream MH: 55-82609	Downstream MH: 36-32065	Size: 48 inches	Footage: 37,128 ft
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Segment ID	Segment Name	Town/Area	Basin	Upstream MH	Downstream MH	Pipe segment ID	Diameter	Material	Length	US MH Depth	DS MH Depth
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82609	55-82608	55-373098	48	DIP	124.4	17.54	18.13
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82608	55-82607	55-375405	48	DIP	552.3	18.13	21.18
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82607	55-82606	55-373646	48	DIP	150.0	21.18	15.57
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82606	55-82605	55-375554	48	DIP	544.9	15.57	16.44
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82605	55-82566	55-376076	48	DIP	636.5	16.44	20.38
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82566	55-82565	55-375311	48	DIP	145.8	20.38	24.30
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82565	55-82559	55-375306	48	DIP	1086.3	24.30	34.09
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82559	55-82558	55-375170	48	DIP	143.6	34.09	26.92
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82558	55-82557	55-375349	48	DIP	424.1	26.92	14.68
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82557	55-82556	55-373535	48	DIP	86.8	14.68	13.19
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82556	55-82554	55-374366	48	DIP	312.5	13.19	11.64
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82554	55-82553	55-373363	48	DIP	293.6	11.64	9.03
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82553	55-82552	55-375171	48	DIP	107.9	9.03	16.18
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82552	55-82551	55-375061	48	DIP	139.2	16.18	16.22
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82551	55-82550	55-375106	48	DIP	368.5	16.22	20.89
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82550	55-82549	55-375107	48	DIP	402.8	20.89	16.22
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82549	55-82548	55-375062	48	DIP	59.7	16.22	15.47
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82548	55-82547	55-373364	48	DIP	315.5	15.47	16.18
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82547	55-82546	55-373544	48	DIP	100.1	16.18	16.30
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82546	55-82545	55-373395	48	DIP	89.9	16.30	12.52
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82545	55-82544	55-374367	48	DIP	247.6	12.52	10.68
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82544	55-82543	55-373548	48	DIP	238.7	10.68	11.32
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82543	55-82542	55-374463	48	RCP	282.8	11.32	9.57
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82542	55-82541	55-373831	48	DIP	204.4	9.57	9.89
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82541	55-82540	55-375202	48	DIP	416.5	9.89	18.21
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82540	55-82539	55-376074	48	DIP	141.2	18.21	11.28
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82539	55-82538	55-374322	48	DIP	560.9	11.28	12.39
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82538	55-82537	55-375153	48	DIP	393.3	12.39	12.15
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82537	55-82536	55-374323	48	DIP	374.6	12.15	13.32
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82536	55-82535	55-373009	48	DIP	68.8	13.32	14.02
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82535	55-82534	55-373010	48	DIP	456.1	14.02	15.20
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82534	55-82533	55-373832	48	PVC	290.5	15.20	15.60
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82533	55-82532	55-373549	48	DIP	290.0	15.60	10.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82532	55-82531	55-376075	48	DIP	301.7	10.00	16.02
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82531	55-82530	55-375203	48	DIP	310.0	16.02	16.84
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82530	55-82529	55-373833	48	DIP	298.8	16.84	12.61
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82529	55-82528	55-374312	48	DIP	185.9	12.61	14.68
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82528	55-82527	55-375114	48	PVC	239.9	14.68	12.81
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82527	55-82526	55-375197	48	DIP	425.0	12.81	10.66
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82526	55-82525	55-373824	48	DIP	166.9	10.66	10.01
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82525	55-82524	55-373543	48	DIP	404.4	10.01	15.28
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82524	55-82523	55-373813	48	DIP	366.6	15.28	18.24
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82523	55-82560	55-375196	48	DIP	286.7	18.24	18.32
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82560	55-82522	55-373002	48	DIP	113.3	18.32	10.51
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-82522	55-65479	55-374311	8	PVC	92.0	10.51	6.07
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-65479	55-65478	55-374518	48	DIP	117.5	6.07	8.30

M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-65478	55-51143	55-371707	48	DIP	231.2	8.30	22.60
M	Middle Swannanoa (3)	W. Wilson to Lowes	55	55-51143	55-51142	55-371948	48	DIP	189.1	22.60	24.80
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	55-51142	39-51132	39-372795	48	DIP	1128.3	24.80	20.76
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-51132	39-51131	39-371866	48	RCP	125.6	20.76	9.88
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-51131	39-51130	39-374404	48	RCP	199.5	9.88	20.63
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-51130	39-51129	39-373760	48	DIP	259.4	20.63	20.73
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-51129	39-51128	39-371812	48	RCP	396.6	20.73	17.40
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-51128	39-51127	39-375950	48	RCP	575.8	17.40	21.90
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-51127	39-51126	39-373303	48	DIP	204.0	21.90	17.30
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-51126	39-51125	39-373304	48	DIP	158.1	17.30	15.10
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-51125	39-32250	39-371698	48	DIP	105.0	15.10	16.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32250	39-32150	39-375036	48	RCP	227.1	16.00	19.90
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32150	*39-359979	39-370895	48	RCP	6.8	19.90	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-359979	39-32148	39-370644	48	RCP	245.4	0.00	19.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32148	*39-359978	39-371872	48	RCP	5.9	19.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-359978	39-32146	39-371551	48	RCP	205.2	0.00	15.56
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32146	*39-355813	39-373190	48	RCP	5.7	15.56	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-355813	39-32144	39-375931	48	RCP	527.0	0.00	17.10
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32144	*39-350421	39-373721	48	RCP	3.8	17.10	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-350421	*39-350274	39-371521	48	RCP	21.7	0.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-350274	39-32141	39-371453	48	RCP	154.6	0.00	19.90
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32141	*39-363639	39-371036	48	RCP	10.2	19.90	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-363639	39-32139	39-371783	48	RCP	49.4	0.00	19.10
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32139	*39-350178	39-372827	48	RCP	10.6	19.10	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-350178	39-32137	39-375930	48	RCP	562.9	0.00	19.80
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32137	*39-352721	39-371539	48	RCP	3.9	19.80	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-352721	*39-322070	39-374251	48	RCP	19.7	0.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-322070	39-32135	39-371806	48	RCP	787.4	0.00	22.60
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32135	*39-319149	39-373611	48	RCP	776.7	22.60	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-319149	39-32134	39-375947	48	RCP	38.7	0.00	24.10
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32134	*39-318982	39-374197	48	PVC	297.4	24.10	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-318982	39-32132	39-376045	48	PVC	409.8	0.00	25.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32132	*39-355791	39-371444	48	RCP	18.4	25.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-355791	*39-320480	39-374651	48	RCP	73.9	0.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-320480	39-32130	39-371805	48	RCP	754.0	0.00	21.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32130	39-32129	39-372335	48	RCP	285.5	21.00	21.60
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32129	*39-350004	39-373043	48	RCP	10.8	21.60	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-350004	*39-350092	39-372616	48	RCP	466.3	0.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-350092	39-32126	39-375996	48	RCP	14.4	0.00	22.70
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32126	*39-361449	39-374677	48	RCP	9.3	22.70	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-361449	*39-359898	39-372765	48	RCP	417.8	0.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-359898	39-32123	39-372080	48	RCP	9.8	0.00	21.30
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32123	*39-357591	39-372764	48	RCP	8.6	21.30	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-357591	39-32121	39-373193	48	RCP	261.5	0.00	21.90
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32121	*39-353495	39-371804	48	RCP	13.4	21.90	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-353495	39-32119	39-375929	48	RCP	434.0	0.00	23.10
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32119	39-32118	39-372826	48	RCP	986.9	23.10	21.20
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32118	*39-350206	39-371782	48	RCP	9.9	21.20	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-350206	*39-326589	39-371523	48	RCP	284.5	0.00	0.00

M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-326589	39-32116	39-375938	48	RCP	393.7	0.00	22.40
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32116	*39-350184	39-371436	48	RCP	249.3	22.40	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-350184	39-32114	39-371520	48	RCP	9.9	0.00	21.60
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32114	*39-350044	39-373720	48	RCP	12.1	21.60	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-350044	39-32112	39-371035	48	RCP	105.1	0.00	22.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32112	*39-359335	39-373145	48	RCP	11.3	22.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-359335	39-32110	39-371121	48	RCP	229.6	0.00	22.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32110	*39-353533	39-373927	48	RCP	6.9	22.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	*39-353533	39-32108	39-371612	48	RCP	369.0	0.00	15.90
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32108	*39-350381	39-371538	48	RCP	7.6	15.90	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*39-350381	36-32106	36-371120	48	RCP	313.5	0.00	16.60
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32106	*36-350046	36-389594	48	RCP	5.0	16.60	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-350046	36-32104	36-393853	48	RCP	475.3	0.00	19.10
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32104	36-32103	36-394300	48	RCP	457.9	19.10	20.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32103	36-32269	36-398224	48	RCP	210.8	20.00	17.20
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32269	36-32101	36-391443	48	RCP	358.5	17.20	20.60
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32101	*36-358100	36-393481	48	RCP	11.7	20.60	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-358100	36-32099	36-396529	48	RCP	492.5	0.00	18.20
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32099	36-32098	36-398432	48	RCP	409.8	18.20	21.60
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32098	*36-360817	36-396528	48	RCP	7.3	21.60	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-360817	36-32096	36-390616	48	RCP	377.9	0.00	23.20
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32096	*36-355675	36-390615	48	RCP	10.3	23.20	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-355675	*36-327867	36-396545	48	RCP	232.2	0.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-327867	36-32094	36-398442	48	RCP	364.2	0.00	21.50
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32094	36-32093	36-391413	48	RCP	551.2	21.50	23.20
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32093	*36-361455	36-394299	48	RCP	7.3	23.20	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-361455	36-32091	36-398223	48	RCP	283.3	0.00	20.40
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32091	*36-349685	36-394298	48	RCP	5.4	20.40	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-349685	36-32089	36-389869	48	RCP	390.5	0.00	16.70
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32089	*36-350493	36-390700	48	RCP	52.5	16.70	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-350493	*36-322072	36-391030	48	RCP	10.8	0.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-322072	*36-349823	36-390116	48	RCP	338.2	0.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-349823	36-32086	36-390896	48	RCP	9.3	0.00	20.80
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32086	36-32085	36-390699	48	RCP	621.0	20.80	21.10
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32085	*36-360210	36-390857	48	RCP	7.6	21.10	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-360210	36-32083	36-398222	48	RCP	552.5	0.00	19.40
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32083	*36-357688	36-393489	48	RCP	10.1	19.40	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-357688	*36-326402	36-389511	48	RCP	21.2	0.00	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-326402	36-32081	36-395530	48	XXX	237.3	0.00	19.10
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32081	*36-351491	36-390848	48	RCP	8.6	19.10	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-351491	36-32079	36-391426	48	RCP	527.0	0.00	17.40
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32079	*36-360585	36-393272	48	RCP	10.2	17.40	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-360585	36-32077	36-392625	48	RCP	397.3	0.00	16.80
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32077	*36-320305	36-392624	48	RCP	84.0	16.80	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-320305	36-32076	36-393888	48	RCP	27.5	0.00	18.20
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32076	*36-358002	36-391365	48	RCP	8.4	18.20	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-358002	36-32074	36-389510	48	RCP	148.2	0.00	19.80
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32074	*36-352805	36-390847	48	RCP	7.7	19.80	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-352805	*36-323214	36-390913	48	RCP	355.4	0.00	0.00

M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-323214	36-32072	36-389509	48	RCP	84.0	0.00	23.20
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32072	36-32071	36-396375	48	RCP	473.8	23.20	20.50
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32071	*36-357864	36-391712	48	RCP	7.8	20.50	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-357864	36-32069	36-392448	48	RCP	143.9	0.00	17.60
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32069	*36-360258	36-394413	48	RCP	6.3	17.60	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-360258	36-32067	36-393022	48	RCP	403.5	0.00	20.30
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	36-32067	*36-350304	36-391589	48	RCP	9.1	20.30	0.00
M	Middle Swannanoa (3)	W. Wilson to Lowes	36	*36-350304	36-32065	36-394332	48	DIP	839.0	0.00	21.20
M	Middle Swannanoa (3)	W. Wilson to Lowes	39	39-32134	*39-360643	39-371445	48	RCP	8.0	24.10	0.00

This is a possible phantom pipe downstream of 39-375947 on MSD GIS

153 pipes

Total: 37128.5

Segment N	Lower Swannanoa (1)		Upstream MH: 36-32065	Downstream MH: 31-32047	Size: 54 inches	Footage: 2547 ft
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Segment ID	Segment Name	Town/Area	Basin	Upstream MH	Downstream MH	Pipe segment ID	Diameter	Material	Length	US MH Depth	DS MH Depth
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	36-32065	31-32064	31-391364	54	RCP	382.2	21.20	18.20
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	31-32064	*31-358369	31-390894	54	RCP	9.2	18.20	0.00
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	*31-358369	31-32062	31-390698	54	RCP	375.5	0.00	17.40
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	31-32062	*31-358021	31-389821	54	RCP	18.9	17.40	0.00
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	*31-358021	31-32060	31-390697	54	RCP	231.8	0.00	16.40
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	31-32060	*31-350296	31-390893	54	RCP	123.0	16.40	0.00
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	*31-350296	31-32058	31-394297	54	RCP	13.1	0.00	17.10
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	31-32058	*31-360637	31-398220	54	RCP	8.8	17.10	0.00
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	*31-360637	31-32056	31-394296	54	RCP	185.1	0.00	15.50
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	31-32056	*31-353919	31-393783	54	RCP	6.0	15.50	0.00
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	*31-353919	*31-355674	31-389590	54	RCP	22.7	0.00	0.00
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	*31-355674	31-32053	31-390613	54	RCP	103.8	0.00	20.50
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	31-32053	*31-353764	31-391441	54	RCP	9.7	20.50	0.00
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	*31-353764	31-32051	31-393451	54	RCP	413.3	0.00	22.10
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	31-32051	*31-351046	31-393074	54	RCP	11.2	22.10	0.00
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	*31-351046	31-32049	31-394295	54	RCP	430.1	0.00	19.70
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	31-32049	*31-349826	31-391410	54	RCP	8.6	19.70	0.00
N	Lower Swannanoa (1)	Lowes to Kennilworth	31	*31-349826	31-32047	31-389589	54	RCP	193.6	0.00	19.80

18 pipes

Total: 2546.6

	Segment O	Lower Swannanoa (2)	Upstream MH: 31-32047	Downstream MH: 11-37618	Size: 60 inches	Footage: 6557 ft
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Segment ID	Segment Name	Town/Area	Basin	Upstream MH	Downstream MH	Pipe segment ID	Diameter	Material	Length	US MH Depth	DS MH Depth
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32047	31-32046	31-391093	60	RCP	334.9	19.80	22.10
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32046	*31-357988	31-390696	60	RCP	24.6	22.10	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-357988	31-32044	31-389820	60	RCP	382.2	0.00	18.50
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32044	*31-351789	31-394973	60	RCP	19.6	18.50	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-351789	*31-364260	31-390892	60	RCP	334.0	0.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-364260	31-32041	31-393782	60	RCP	8.1	0.00	15.97
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32041	*31-360812	31-390854	60	RCP	6.9	15.97	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-360812	*31-363586	31-391092	60	RCP	21.2	0.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-363586	31-32038	31-393486	60	RCP	10.1	0.00	18.70
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32038	*31-353375	31-393450	60	RCP	7.8	18.70	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-353375	31-32036	31-393073	60	RCP	314.2	0.00	16.70
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32036	*31-359334	31-393072	60	RCP	25.6	16.70	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-359334	*31-360600	31-393449	60	RCP	130.7	0.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-360600	31-32033	31-393485	60	RCP	7.9	0.00	16.30
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32033	*31-359482	31-391091	60	RCP	4.2	16.30	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-359482	*31-350897	31-390853	60	RCP	508.0	0.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-350897	31-32030	31-393781	60	RCP	7.9	0.00	13.40
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32030	31-32029	31-393343	60	RCP	280.6	13.40	13.40
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32029	31-32028	31-396180	60	RCP	334.1	13.40	11.70
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32028	*31-352668	31-396160	60	RCP	11.3	11.70	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-352668	*31-320508	31-395572	60	RCP	7.9	0.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-320508	*31-320485	31-390914	60	RCP	313.2	0.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-320485	31-32026	31-395995	60	RCP	124.6	0.00	12.30
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32026	*31-359592	31-390607	60	RCP	16.0	12.30	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-359592	31-32024	31-393399	60	RCP	318.0	0.00	11.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	31-32024	*31-357857	31-391438	60	RCP	14.8	11.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-357857	*31-320128	31-393631	60	RCP	375.6	0.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	31	*31-320128	11-32022	31-391786	60	RCP	311.3	0.00	11.40
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32022	*11-350373	11-392978	60	RCP	14.0	11.40	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-350373	11-32020	11-393859	60	RCP	511.9	0.00	13.60
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32020	*11-365390	11-393778	60	RCP	12.2	13.60	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-365390	*11-350053	11-389574	60	RCP	408.5	0.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-350053	11-32017	11-391083	60	RCP	14.3	0.00	15.20
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32017	*11-360824	11-390683	60	RCP	12.1	15.20	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-360824	11-32015	11-390873	60	RCP	19.1	0.00	14.68
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32015	*11-352486	11-392835	60	RCP	17.8	14.68	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-352486	11-32013	11-393059	60	RCP	10.4	0.00	15.30
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32013	*11-351054	11-396355	60	RCP	13.0	15.30	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-351054	11-32011	11-394939	60	RCP	301.6	0.00	15.50
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32011	*11-350779	11-389794	60	RCP	11.6	15.50	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-350779	11-32009	11-391403	60	RCP	127.3	0.00	15.30
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32009	11-32008	11-393341	60	RCP	242.9	15.30	15.60
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32008	*11-355814	11-391082	60	RCP	14.0	15.60	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-355814	11-32006	11-390833	60	RCP	141.5	0.00	9.10
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32006	11-32005	11-391402	60	RCP	120.9	9.10	9.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32005	*11-361124	11-392977	60	RCP	79.3	9.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-361124	11-32003	11-392976	60	RCP	11.9	0.00	16.70

O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32003	*11-350165	11-391437	60	RCP	10.6	16.70	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-350165	11-32001	11-391436	60	RCP	116.6	0.00	12.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	11-32001	*11-359316	11-391081	60	RCP	9.7	12.00	0.00
O	Lower Swannanoa (2)	Kennilworth to JB	11	*11-359316	11-37618	11-393340	60	RCP	80.8	0.00	13.88

51 pipes

Total: 6557.2