Appendix C

Water Model Results

Short Term Development Area (2023-2028)					DEMAND (L/s)		
Node	**Area Type**	**Hectares**	**Units**	**Population**	**ADD**	**MDD**	**PHD**
J-743	**Industrial**	**0.6**			**0.2431**	**0.3646**	**0.6563**
J-744	Industrial	0.5			0.2025	0.3038	0.5469
J-744	Industrial	5.7			2.3090	3.4635	6.2344
J-744	Industrial	0.4			0.1620	0.2431	0.4375
J-744	Industrial	1.6			0.6481	0.9722	1.7500
J-744	Industrial	0.4			0.1620	0.2431	0.4375
J-744	Industrial	0.4			0.1620	0.2431	0.4375
J-746	Industrial	0.4			0.1620	0.2431	0.4375
J-746	Industrial	0.6			0.2431	0.3646	0.6563
J-746	Industrial	0.9			0.3646	0.5469	0.9844
J-746	Industrial	0.7			0.2836	0.4253	0.7656
J-746	Industrial	2.3			0.9317	1.3976	2.5156
J-784	Industrial	3.2			1.2963	1.9444	3.5000
J-793	**Commercial**	**2.6**			**0.8426**	**1.2639**	**2.2750**
J-789	Commercial	1.1			0.3565	0.5347	0.9625
J-768	**Residential**	**7.5**	**70**	**168**	**0.6806**	**1.7014**	**3.7431**
J-737	Residential	7.4	120	288	1.1667	2.9167	6.4167
J-734	Residential	2.1	15	36	0.1458	0.3646	0.8021
J-733	Residential	5.4	50	120	0.4861	1.2153	2.6736
J-739	Residential	3.9	144	346	1.4000	3.5000	7.7000
J-492	Residential	2.6	55	132	0.5347	1.3368	2.9410
J-751	Residential	6.5	66	99	0.4010	1.0026	2.2057
J-750	Residential	12.6	300	720	2.9167	7.2917	16.0417
J-395	Residential		3	7	0.0292	0.0729	0.1604
J-184	Residential		2	5	0.0194	0.0486	0.1069
J-384	Residential		2	5	0.0194	0.0486	0.1069
J-480	Residential		1	2	0.0097	0.0243	0.0535
J-214	Residential		2	5	0.0194	0.0486	0.1069
J-26	Residential		1	2	0.0097	0.0243	0.0535
J-371	Residential		1	2	0.0097	0.0243	0.0535
J-339	Residential		1	2	0.0097	0.0243	0.0535
J-432	Residential		3	7	0.0292	0.0729	0.1604
J-72	Residential		3	7	0.0292	0.0729	0.1604
J-793	Residential		124	186	0.7535	1.8837	4.1441
			963	**2140**	**17.0390**	**34.2283**	**70.2807**

Mid Term Development Area (2028-2038)					DEMAND (L/s)		
Node	**Area Type**	**Hectares**	**Units**	**Population**	**ADD**	**MDD**	**PHD**
J-744	**Industrial**	**0.4**			**0.1620**	**0.2431**	**0.4375**
J-754	Industrial	3.4			1.3773	2.0660	3.7188
J-767	Industrial	0.3			0.1215	0.1823	0.3281
J-676	**Commercial**	**0.4**			**0.1296**	**0.1944**	**0.3500**
J-676	Commercial	0.4			0.1296	0.1944	0.3500
J-676	Commercial	0.4			0.1296	0.1944	0.3500
J-676	Commercial	0.4			0.1296	0.1944	0.3500
J-640	Commercial	0.3			0.0972	0.1458	0.2625
J-640	Commercial	0.3			0.0972	0.1458	0.2625
J-783	Commercial	0.8			0.2593	0.3889	0.7000
J-545	Commercial	0.2			0.0648	0.0972	0.1750
J-763	Commercial	0.6			0.1944	0.2917	0.5250
J-241	Commercial	0.2			0.0648	0.0972	0.1750
J-241	Commercial	0.3			0.0972	0.1458	0.2625
J-241	Commercial	0.3			0.0972	0.1458	0.2625
J-771	Commercial	0.4			0.1296	0.1944	0.3500
J-771	Commercial	0.3			0.0972	0.1458	0.2625
J-771	Commercial	7.6			2.4630	3.6944	6.6500
J-767	Commercial	0.7			0.2269	0.3403	0.6125
J-787	Commercial	0.2			0.0648	0.0972	0.1750
J-787	Commercial	0.4			0.1296	0.1944	0.3500
J-768	**Residential**	**10.4**	**155**	**372**	**1.5069**	**3.7674**	**8.2882**
J-758	Residential	32.1	450	1080	4.3750	10.9375	24.0625
J-780	Residential	9.7	125	300	1.2153	3.0382	6.6840
J-764	Residential	11.4	162	388.8	1.5750	3.9375	8.6625
J-593	Residential	25.4	500	1200	4.8611	12.1528	26.7361
J-92	Residential		1	2	0.0097	0.0243	0.0535
J-87	Residential		1	2	0.0097	0.0243	0.0535
J-338	Residential		1	2	0.0097	0.0243	0.0535
J-449	Residential		3	7	0.0292	0.0729	0.1604
J-520	Residential		2	5	0.0194	0.0486	0.1069
J-614	Residential		7	17	0.0681	0.1701	0.3743
J-342	Residential		1	2	0.0097	0.0243	0.0535
J-791	Residential		2	5	0.0194	0.0486	0.1069
J-488	Residential		8	19	0.0778	0.1944	0.4278
J-492	Residential		6	14	0.0583	0.1458	0.3208
J-492	Residential		4	10	0.0389	0.0972	0.2139
J-334	Residential		4	10	0.0389	0.0972	0.2139
J-279	Residential		10	24	0.0972	0.2431	0.5347
J-286	Residential		8	19	0.0778	0.1944	0.4278
			1450	**3480**	**20.3600**	**44.6372**	**94.4441**

Long Term Development Area (2038-2048)					DEMAND (L/s)		
Node	**Area Type**	**Hectares**	**Units**	**Population**	**ADD**	**MDD**	**PHD**
J-517	**Industrial**	**1.5**			**0.6076**	**0.9115**	**1.6406**
J-517	Industrial	8.1			3.2813	4.9219	8.8594
J-768	**Residential**	**8.6**	**118**	**284**	**1.1497**	**2.8741**	**6.3231**
J-761	Residential	1.6	22	53	0.2139	0.5347	1.1764
J-775	Residential	13.4	184	442	1.7913	4.4783	9.8523
J-774	Residential	8.3	114	274	1.1095	2.7739	6.1025
J-773	Residential	5.5	76	182	0.7352	1.8381	4.0438
			514	**1234**	**8.8885**	**18.3325**	**37.9981**

ID	Junction	Elevation (m)
22	J-1	115.86
23	J-2	115.70
25	J-3	138.49
26	J-4	138.49
31	J-7	137.69
34	J-9	129.79
37	J-11	119.31
38	J-12	119.33
40	J-13	131.59
41	J-14	131.62
43	J-15	120.67
44	J-16	120.66
46	J-17	127.29
53	J-22	121.25
55	J-23	137.71
56	J-24	137.63
58	J-25	119.49
59	J-26	119.65
61	J-27	115.57
63	J-28	139.14
66	J-30	138.49
67	J-31	138.44
69	J-32	115.35
72	J-34	116.60
73	J-35	116.62
75	J-36	139.18
77	J-37	116.11
78	J-38	116.04
80	J-39	134.69
81	J-40	134.63
83	J-41	138.09
88	J-43	128.76
89	J-44	128.79
91	J-45	109.24
92	J-46	109.28
94	J-47	137.86
95	J-48	137.80
98	J-50	128.54
101	J-52	138.03
103	J-53	120.41
1174	J-54	120.15
106	J-55	111.22
107	J-56	111.00
109	J-57	129.53
111	J-58	129.98
112	J-59	129.89

ID	Junction	Elevation (m)
115	J-61	127.27
117	J-62	129.48
119	J-63	119.14
120	J-64	119.13
122	J-65	119.36
123	J-66	119.38
125	J-67	116.32
126	J-68	115.95
128	J-69	129.63
129	J-70	129.33
132	J-72	132.25
134	J-73	131.58
135	J-74	131.61
137	J-75	128.11
138	J-76	128.07
141	J-77	137.68
145	J-80	120.01
147	J-81	112.17
150	J-83	138.71
153	J-85	124.24
154	J-86	124.29
156	J-87	131.38
159	J-89	124.46
161	J-90	112.57
164	J-92	128.28
165	J-93	127.67
168	J-95	113.52
170	J-96	123.53
171	J-97	123.51
173	J-98	123.55
176	J-100	123.15
178	J-101	127.52
179	J-102	127.23
181	J-103	122.15
182	J-104	122.30
184	J-105	122.78
185	J-106	122.60
187	J-107	136.72
192	J-110	115.36
195	J-111	140.20
196	J-112	140.00
198	J-113	113.55
199	J-114	113.80
208	J-119	126.54
209	J-120	126.53

ID	Junction	Elevation (m)
213	J-122	114.72
214	J-123	114.30
216	J-124	121.29
218	J-125	118.91
219	J-126	119.08
221	J-127	126.73
224	J-129	138.47
226	J-130	125.41
227	J-131	125.36
229	J-132	118.79
231	J-133	131.70
232	J-134	131.46
235	J-136	138.42
237	J-137	119.54
247	J-143	128.85
251	J-146	133.64
253	J-147	113.38
254	J-148	113.70
256	J-149	126.53
257	J-150	126.40
259	J-151	120.26
260	J-152	120.41
262	J-153	119.58
267	J-156	129.54
268	J-157	129.57
270	J-158	129.18
271	J-159	129.37
273	J-160	120.88
275	J-161	116.65
276	J-162	116.37
278	J-163	120.07
281	J-165	122.06
283	J-166	119.10
284	J-167	119.10
290	J-170	138.12
292	J-171	124.66
294	J-172	137.77
295	J-173	137.75
299	J-175	123.54
302	J-177	120.00
304	J-178	138.77
306	J-179	126.33
307	J-180	126.22
309	J-181	128.79
310	J-182	129.09

ID	Junction	Elevation (m)
314	J-184	123.79
316	J-185	120.23
323	J-189	126.43
325	J-190	127.34
327	J-191	138.33
328	J-192	138.13
331	J-194	139.83
333	J-195	129.73
335	J-196	138.87
337	J-197	108.97
338	J-198	107.02
343	J-201	122.48
344	J-202	122.28
346	J-203	119.08
348	J-204	137.86
350	J-205	113.85
352	J-206	129.77
354	J-207	125.85
356	J-208	125.87
357	J-209	126.19
359	J-210	129.44
360	J-211	130.33
363	J-212	140.89
365	J-213	118.83
366	J-214	120.28
368	J-215	123.51
369	J-216	123.62
373	J-218	128.49
374	J-219	129.35
376	J-220	128.47
378	J-221	124.92
383	J-223	120.47
389	J-225	120.06
392	J-227	120.46
394	J-228	128.25
396	J-229	131.44
397	J-230	131.67
399	J-231	118.92
401	J-232	121.52
403	J-233	130.00
404	J-234	129.72
407	J-235	129.88
408	J-236	129.62
410	J-237	119.71
412	J-238	118.16

ID	Junction	Elevation (m)
413	J-239	116.00
415	J-240	139.63
416	J-241	139.40
418	J-242	137.31
419	J-243	136.77
421	J-244	119.33
425	J-246	131.10
426	J-247	132.01
428	J-248	137.85
430	J-249	143.15
431	J-250	141.49
433	J-251	122.22
435	J-252	124.42
440	J-255	119.21
442	J-256	125.47
443	J-257	125.88
447	J-258	122.80
448	J-259	122.99
450	J-260	123.38
453	J-261	124.46
454	J-262	122.40
456	J-263	115.41
458	J-264	115.65
460	J-265	129.87
461	J-266	130.68
463	J-267	131.05
465	J-268	119.24
467	J-269	123.50
468	J-270	122.55
470	J-271	120.06
475	J-274	129.11
477	J-275	120.96
479	J-276	126.32
482	J-277	131.11
485	J-278	135.11
486	J-279	136.95
488	J-280	130.61
490	J-281	130.96
491	J-282	131.25
493	J-283	126.87
495	J-284	135.46
496	J-285	137.56
498	J-286	132.78
499	J-287	132.31
501	J-288	132.74

ID	Junction	Elevation (m)
502	J-289	133.40
504	J-290	132.50
506	J-291	120.47
508	J-292	126.28
509	J-293	126.26
511	J-294	122.48
513	J-295	136.70
515	J-296	119.66
517	J-297	127.24
519	J-298	121.70
522	J-299	110.53
523	J-300	114.43
525	J-301	132.52
527	J-302	120.16
529	J-303	113.58
532	J-304	123.90
533	J-305	124.67
535	J-306	121.01
538	J-307	129.86
540	J-308	134.33
541	J-309	133.27
546	J-310	132.68
547	J-311	132.09
549	J-312	127.93
550	J-313	128.99
552	J-314	120.08
553	J-315	120.86
556	J-316	113.50
559	J-317	125.84
560	J-318	127.60
562	J-319	114.83
565	J-320	104.55
567	J-321	120.27
569	J-322	121.09
571	J-323	127.05
573	J-324	114.30
575	J-325	121.90
577	J-326	120.69
579	J-327	126.11
580	J-328	125.29
585	J-329	120.38
589	J-330	106.61
591	J-331	122.49
593	J-332	121.84
597	J-333	112.08

ID	Junction	Elevation (m)
599	J-334	138.17
601	J-335	139.22
603	J-336	123.64
606	J-337	135.73
608	J-338	130.93
611	J-339	125.39
612	J-340	126.33
616	J-341	125.39
620	J-342	139.23
622	J-343	125.68
623	J-344	130.34
627	J-345	121.42
631	J-346	133.50
634	J-347	138.08
636	J-348	119.92
638	J-349	126.56
639	J-350	126.22
642	J-351	103.31
644	J-352	126.04
648	J-353	128.40
653	J-354	127.17
655	J-355	123.07
657	J-356	127.17
658	J-357	127.49
660	J-358	124.15
662	J-359	134.62
666	J-360	129.42
669	J-361	120.08
672	J-362	128.35
674	J-363	139.06
678	J-364	129.66
681	J-365	125.60
683	J-366	125.27
690	J-367	125.35
693	J-368	124.00
696	J-369	129.89
698	J-370	125.21
700	J-371	124.47
707	J-373	123.76
709	J-374	138.46
711	J-375	130.79
720	J-377	122.57
723	J-378	122.87
725	J-379	128.42
728	J-380	130.32

ID	Junction	Elevation (m)
736	J-381	139.11
737	J-382	137.87
739	J-383	104.79
742	J-384	124.26
747	J-385	125.09
748	J-386	125.39
750	J-387	128.51
751	J-388	127.00
753	J-389	118.77
755	J-390	130.50
758	J-391	122.79
769	J-392	129.63
776	J-393	112.46
783	J-394	123.68
792	J-395	113.67
795	J-396	129.74
797	J-397	129.19
799	J-398	119.11
805	J-399	112.12
814	J-400	124.61
828	J-401	124.46
831	J-402	129.85
844	J-403	138.77
848	J-404	130.60
853	J-405	120.65
854	J-406	123.29
857	J-407	138.32
859	J-408	141.99
886	J-409	128.20
889	J-410	124.24
892	J-411	135.88
1025	J-423	129.64
1064	J-432	133.63
1066	J-433	134.31
1068	J-434	135.13
1070	J-435	135.04
1072	J-436	132.04
1077	J-437	123.22
1079	J-438	121.60
1081	J-439	130.05
1085	J-440	124.56
1088	J-441	131.80
1090	J-442	132.92
1092	J-443	132.60
1094	J-444	132.45

ID	Junction	Elevation (m)
1096	J-445	130.30
1098	J-446	130.85
1186	J-449	138.68
1189	J-450	144.08
1191	J-451	143.56
1193	J-452	136.38
1195	J-453	137.75
1197	J-454	138.00
1199	J-455	137.00
1201	J-456	136.20
1203	J-457	136.17
1205	J-458	135.00
1210	J-460	141.57
1212	J-461	139.00
1214	J-462	142.38
1216	J-463	140.40
1225	J-464	139.42
1228	J-465	143.00
1245	J-473	121.53
1269	J-480	117.49
1296	J-488	141.00
1303	J-491	138.08
1306	J-492	138.08
1312	J-494	140.00
1323	J-497	116.00
1327	J-499	123.00
1382	J-517	125.00
1384	J-518	126.00
1400	J-520	143.00
1487	J-527	141.00
1490	J-528	141.00
1492	J-529	138.00
1494	J-530	137.00
1502	J-531	126.66
1516	J-532	132.50
1518	J-533	132.00
1520	J-534	132.00
1522	J-535	130.00
1524	J-536	130.00
1528	J-537	121.50
1530	J-538	122.00
1556	J-540	139.47
1559	J-541	138.00
1561	J-542	137.00
1563	J-543	139.00

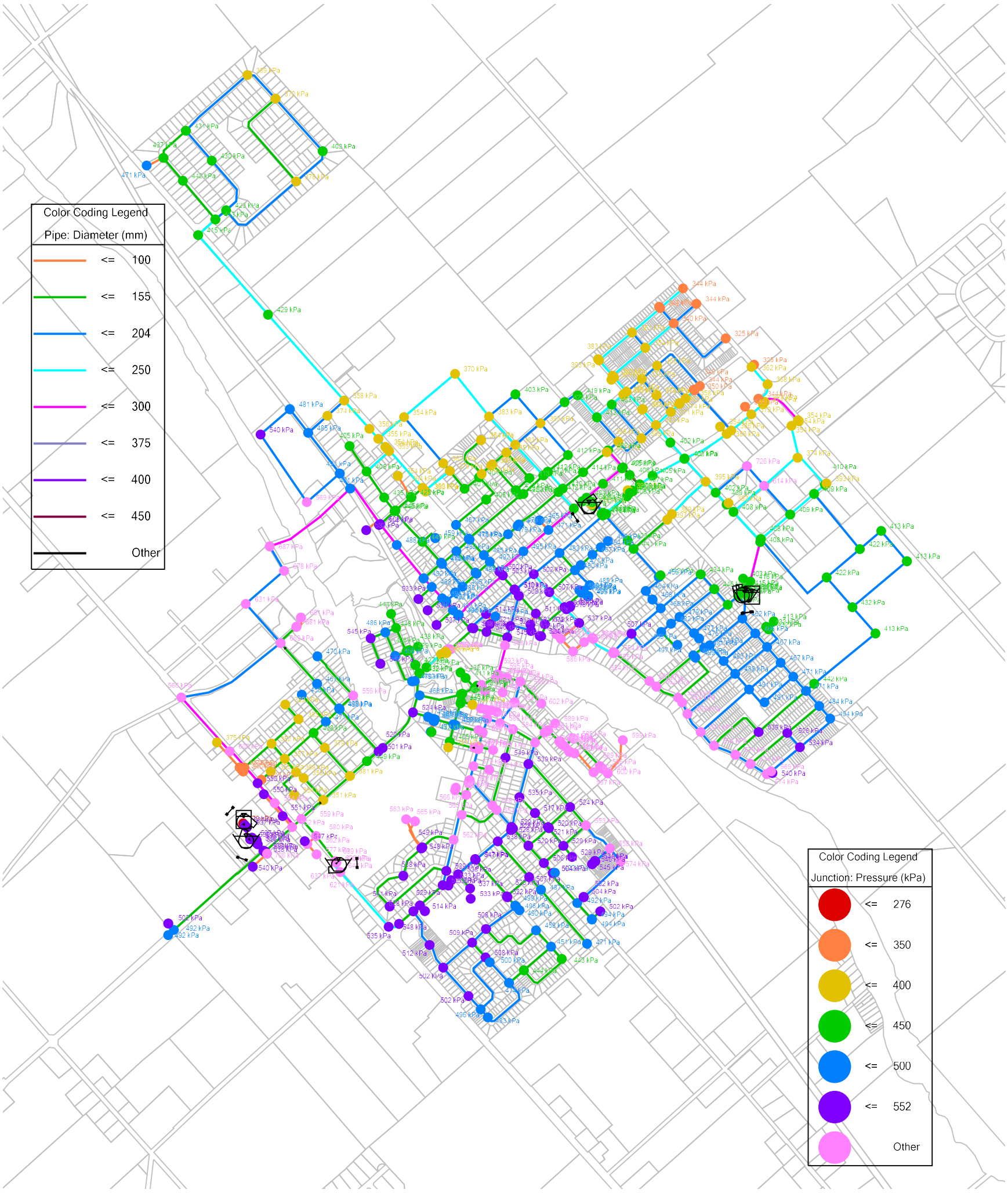
ID	Junction	Elevation (m)
1566	J-544	140.40
1570	J-545	138.56
1617	J-546	141.00
1619	J-547	145.18
1633	J-549	144.86
1641	J-550	137.31
1645	J-552	145.40
1682	J-559	138.83
1802	J-570	126.40
1970	J-572	138.83
2028	J-586	126.40
2301	J-592	132.00
2303	J-593	138.00
2305	J-594	140.00
2307	J-595	132.00
2315	J-597	135.00
2319	J-598	137.00
2323	J-599	137.00
2326	J-600	138.00
2345	J-606	135.52
2352	J-609	132.00
2355	J-611	136.99
2358	J-612	144.00
2361	J-613	141.00
2362	J-614	142.83
2366	J-615	144.03
2369	J-616	144.05
2373	J-617	127.71
2376	J-618	129.00
2378	J-619	127.00
2380	J-620	122.00
2381	J-621	120.37
2385	J-622	111.00
2387	J-623	112.00
2388	J-624	113.00
2392	J-625	126.00
2393	J-626	126.28
2397	J-627	126.35
2400	J-628	131.00
2402	J-629	131.00
2405	J-630	130.00
2407	J-631	125.00
2409	J-632	122.00
2411	J-633	128.00
2412	J-634	126.46

ID	Junction	Elevation (m)
2416	J-635	129.00
2417	J-636	129.86
2421	J-637	126.00
2423	J-638	129.00
2424	J-639	127.29
2428	J-640	140.00
2429	J-641	138.43
2438	J-644	141.76
2441	J-645	142.31
2445	J-646	142.00
2446	J-647	142.03
2450	J-648	142.00
2451	J-649	143.09
2455	J-650	141.00
2456	J-651	141.00
2460	J-652	147.00
2467	J-655	142.53
2470	J-656	143.63
2474	J-657	145.00
2475	J-658	144.41
2479	J-659	141.00
2482	J-660	144.00
2484	J-661	143.24
2488	J-662	140.00
2491	J-663	145.00
2493	J-664	145.00
2495	J-665	145.00
2497	J-666	141.00
2498	J-667	141.00
2502	J-668	140.00
2503	J-669	140.57
2507	J-670	147.00
2508	J-671	143.13
2513	J-673	145.00
2514	J-674	141.91
2518	J-675	145.00
2519	J-676	141.47
2523	J-677	138.44
2526	J-678	142.00
2530	J-679	141.00
2532	J-680	144.00
2533	J-681	140.57
2537	J-682	139.00
2542	J-685	138.00
2544	J-686	136.00

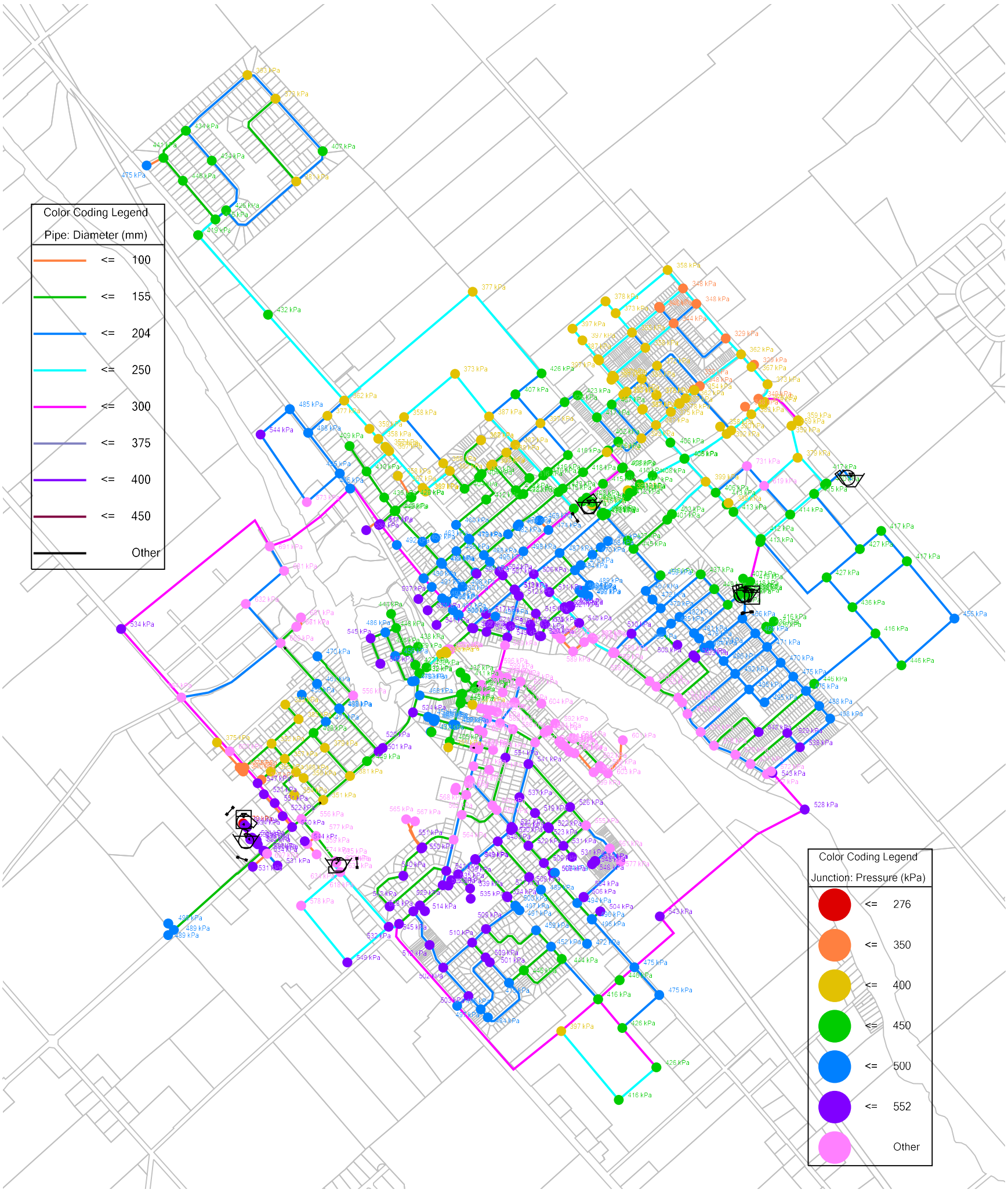
ID	Junction	Elevation (m)
2545	J-687	136.00
2549	J-688	121.52
2553	J-689	135.00
2555	J-690	121.51
2558	J-691	125.11
2567	J-694	121.52
2570	J-695	130.71
2574	J-696	126.44
2577	J-697	125.60
2581	J-698	125.00
2582	J-699	122.04
2589	J-702	135.00
2591	J-703	129.00
2592	J-704	128.82
2597	J-705	130.00
2599	J-706	126.00
2600	J-707	124.31
2604	J-708	144.00
2605	J-709	144.00
2609	J-710	140.00
2611	J-711	119.94
2614	J-712	120.05
2620	J-714	115.00
2621	J-715	113.54
2625	J-716	137.75
2628	J-717	141.00
2629	J-718	117.00
2632	J-719	109.08
2638	J-721	124.53
2641	J-722	124.54
2645	J-723	113.54
2648	J-724	142.98
2652	J-725	140.00
2653	J-726	138.77
2659	J-728	122.14
2662	J-729	120.75
2673	J-730	141.00
2675	J-731	137.00
2679	J-732	143.95
2682	J-733	144.00
2686	J-734	142.00
2689	J-735	143.86
2693	J-736	131.00
2695	J-737	125.00
2697	J-738	122.00

ID	Junction	Elevation (m)
2699	J-739	130.00
2714	J-742	144.00
2717	J-743	139.09
2721	J-744	105.95
2724	J-745	117.43
2728	J-746	138.41
2733	J-747	138.35
2741	J-750	138.00
2743	J-751	137.00
2746	J-752	138.00
2748	J-753	138.00
2750	J-754	136.00
2757	J-756	110.00
2759	J-757	111.00
2763	J-758	142.00
2769	J-760	142.00
2771	J-761	140.00
2777	J-763	138.84
2783	J-764	134.00
2785	J-765	135.00
2788	J-766	124.91
2792	J-767	126.00
2795	J-768	126.00
2799	J-769	121.52
2804	J-771	124.46
2809	J-772	130.00
2810	J-773	125.00
2814	J-774	128.00
2817	J-775	131.00
2820	J-776	140.00
2829	J-780	142.50
2832	J-781	144.00
2837	J-782	143.57
2841	J-783	138.71
2845	J-784	137.00
2850	J-785	131.00
2853	J-786	126.42
2856	J-787	124.57
2861	J-788	123.11
2874	J-789	142.52
2880	J-791	131.27
2886	J-793	140.73

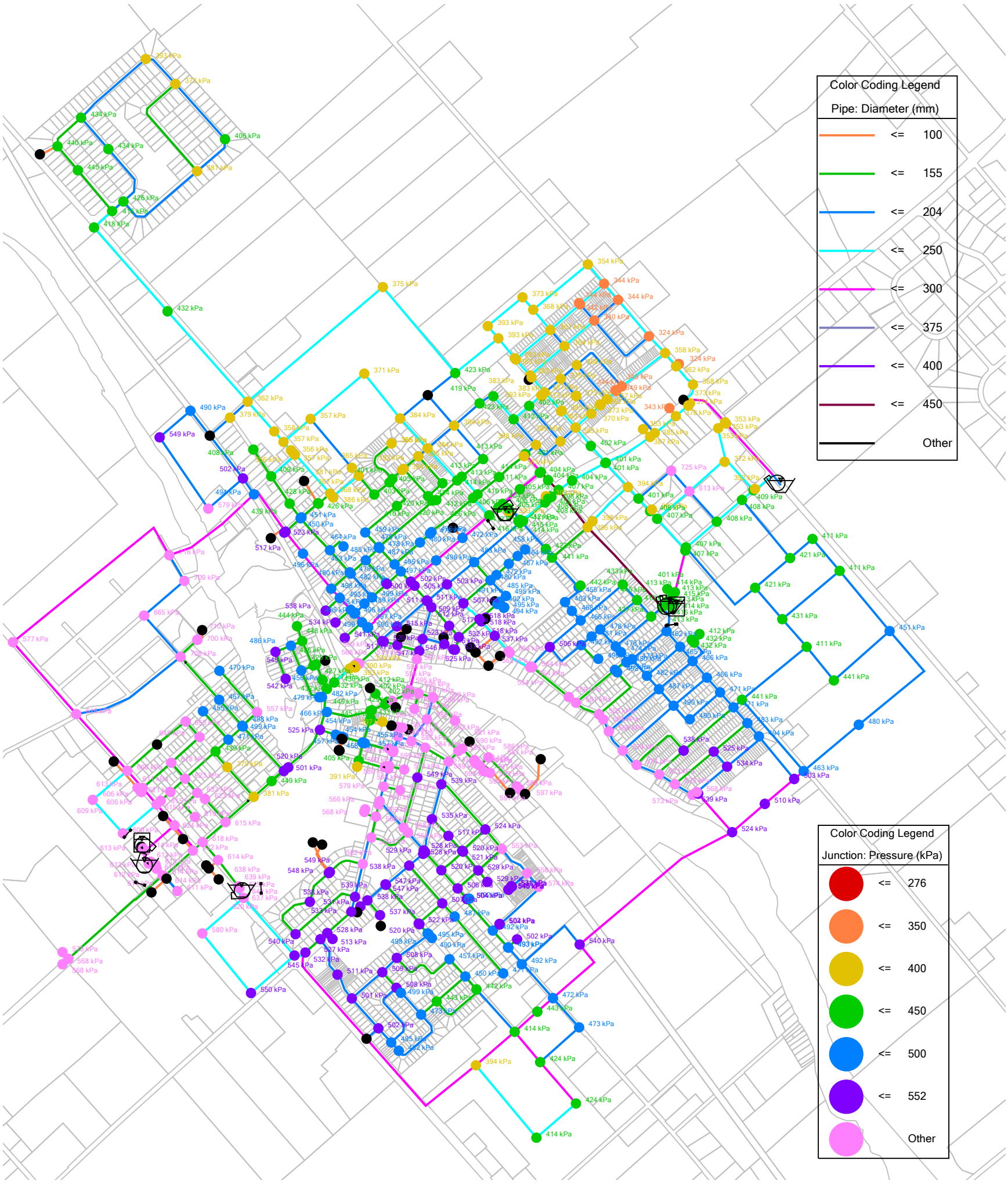
Mississippi Mills Almonte Water Master Plan
Average Day Demand
Short Term (2023 to 2028) with Upgrades



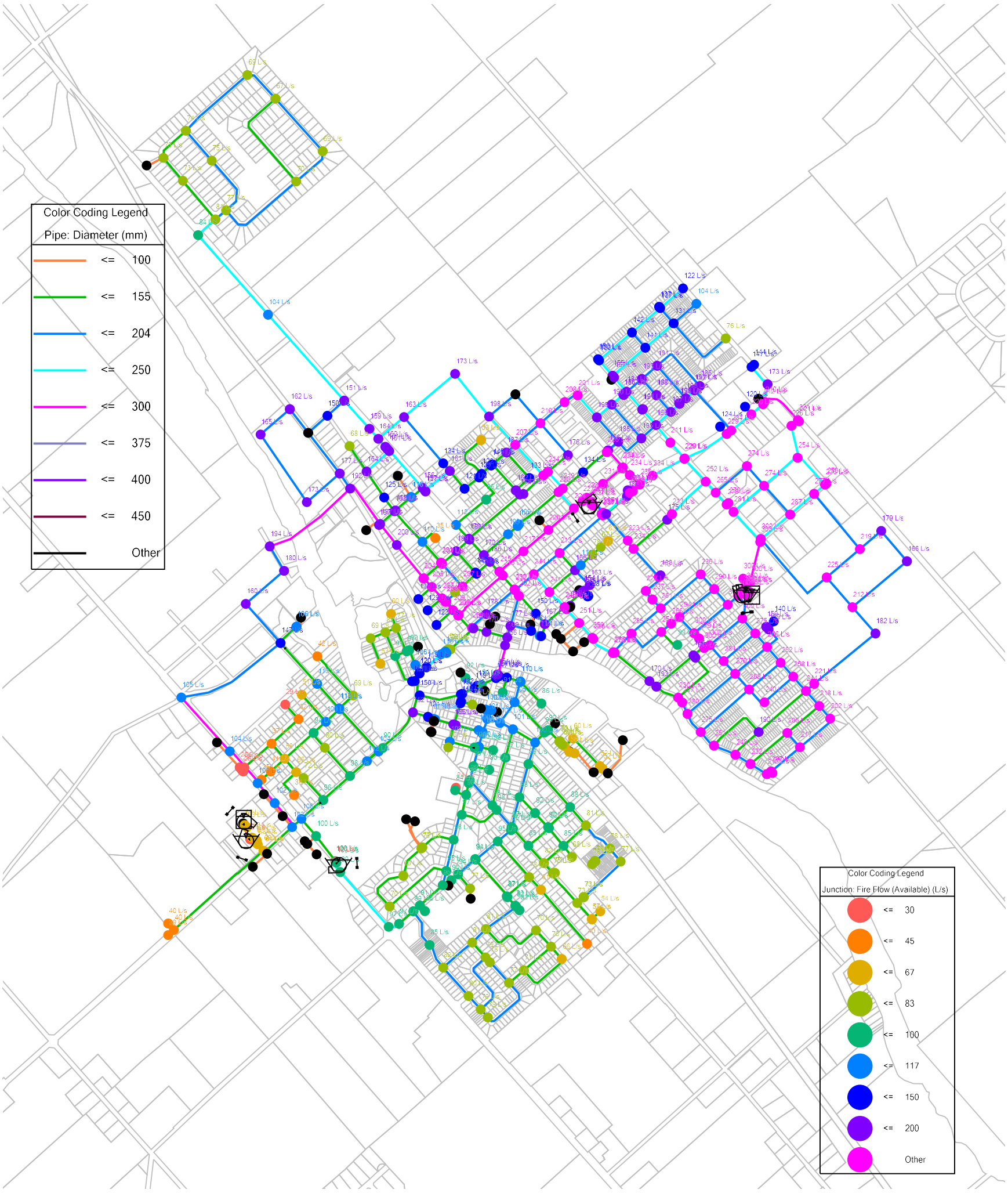
Mississippi Mills Almonte Water Master Plan
Average Day Demand
Mid Term (2028 to 2038) with Upgrades



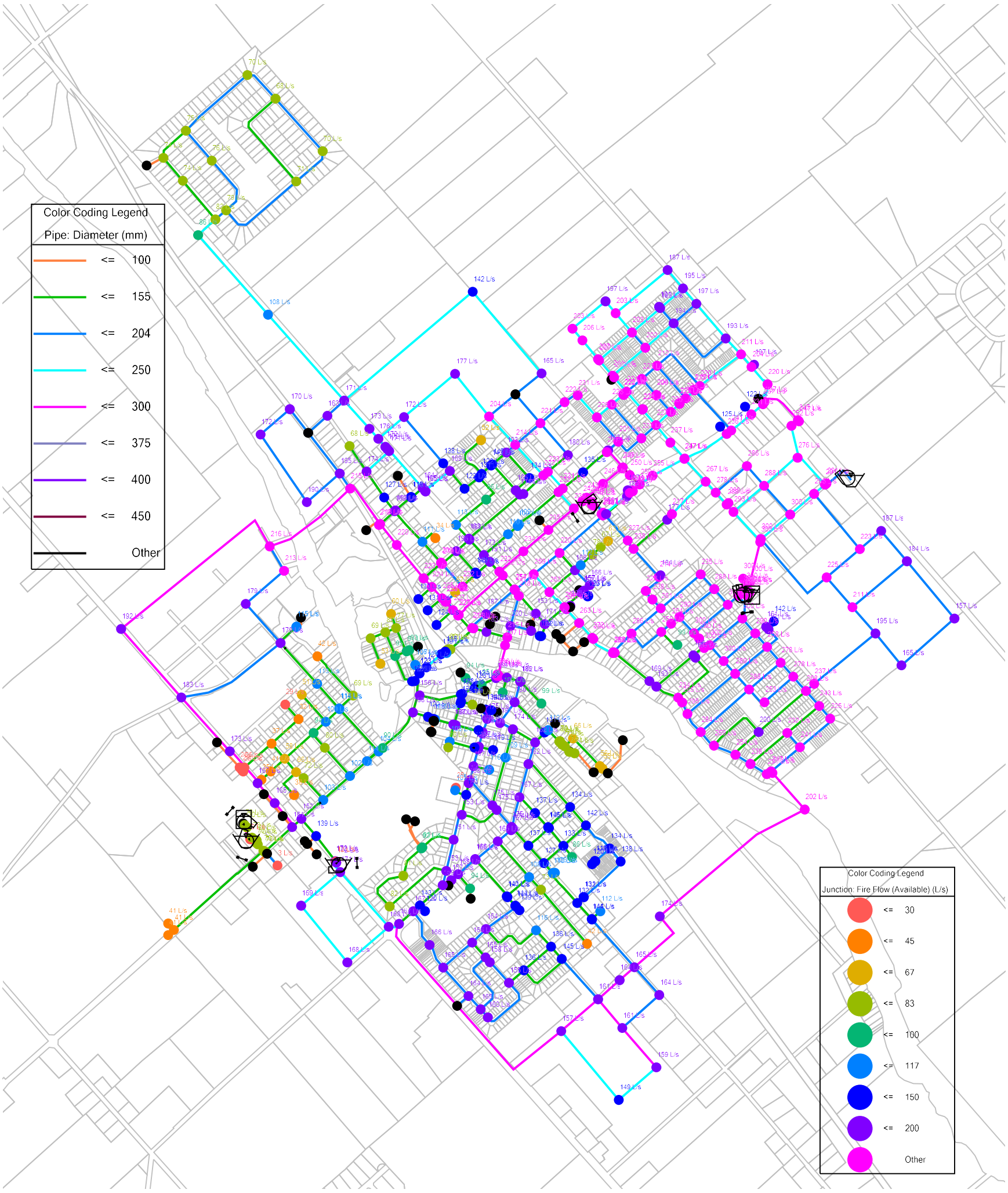
Mississippi Mills Almonte Water Master Plan
Average Day Demand
Long Term (2038 to 2048) with Upgrades



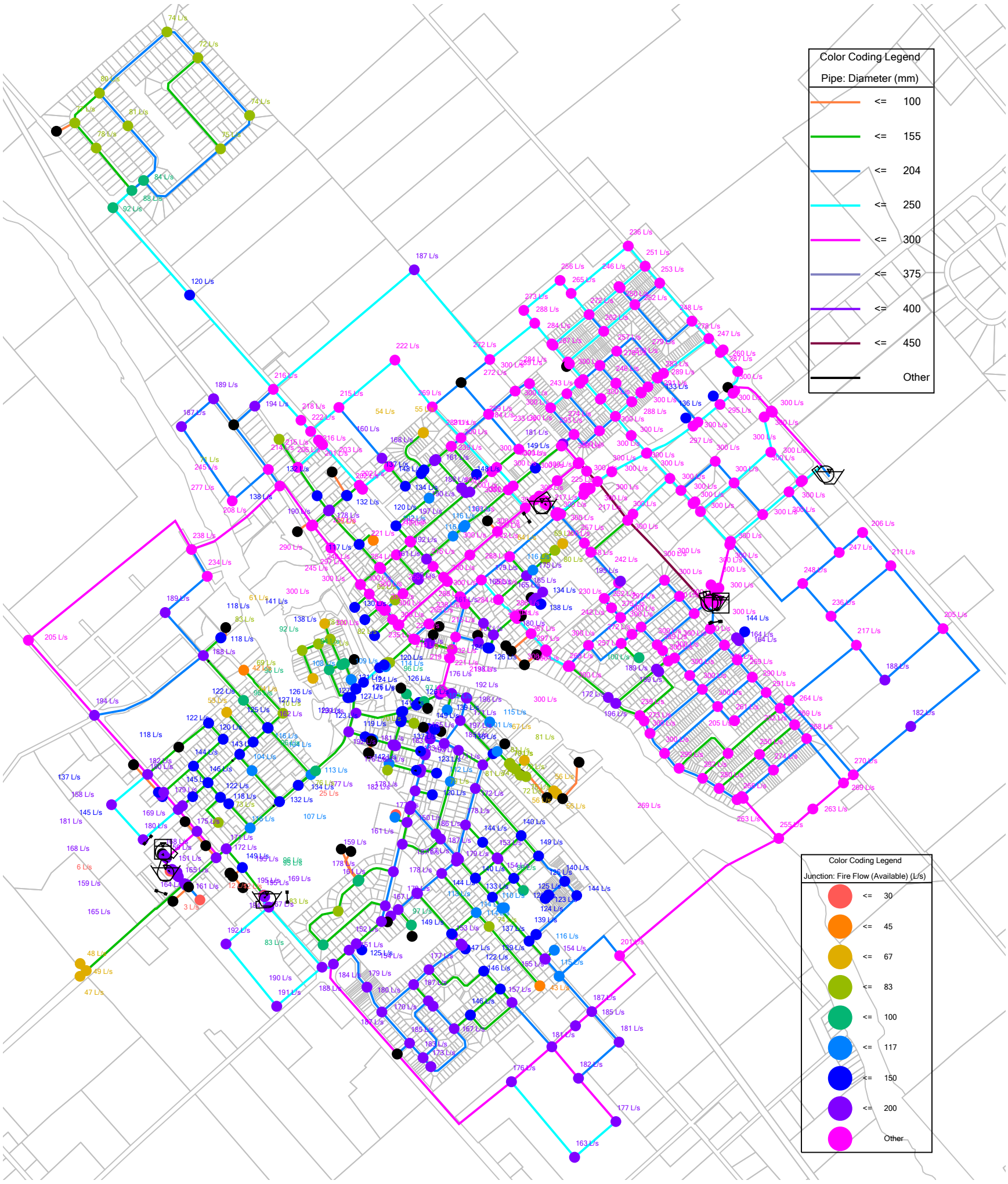
Mississippi Mills Almonte Water Master Plan
Maximum Day Demand with Fire Flow
Short Term (2023 to 2028) with Upgrades



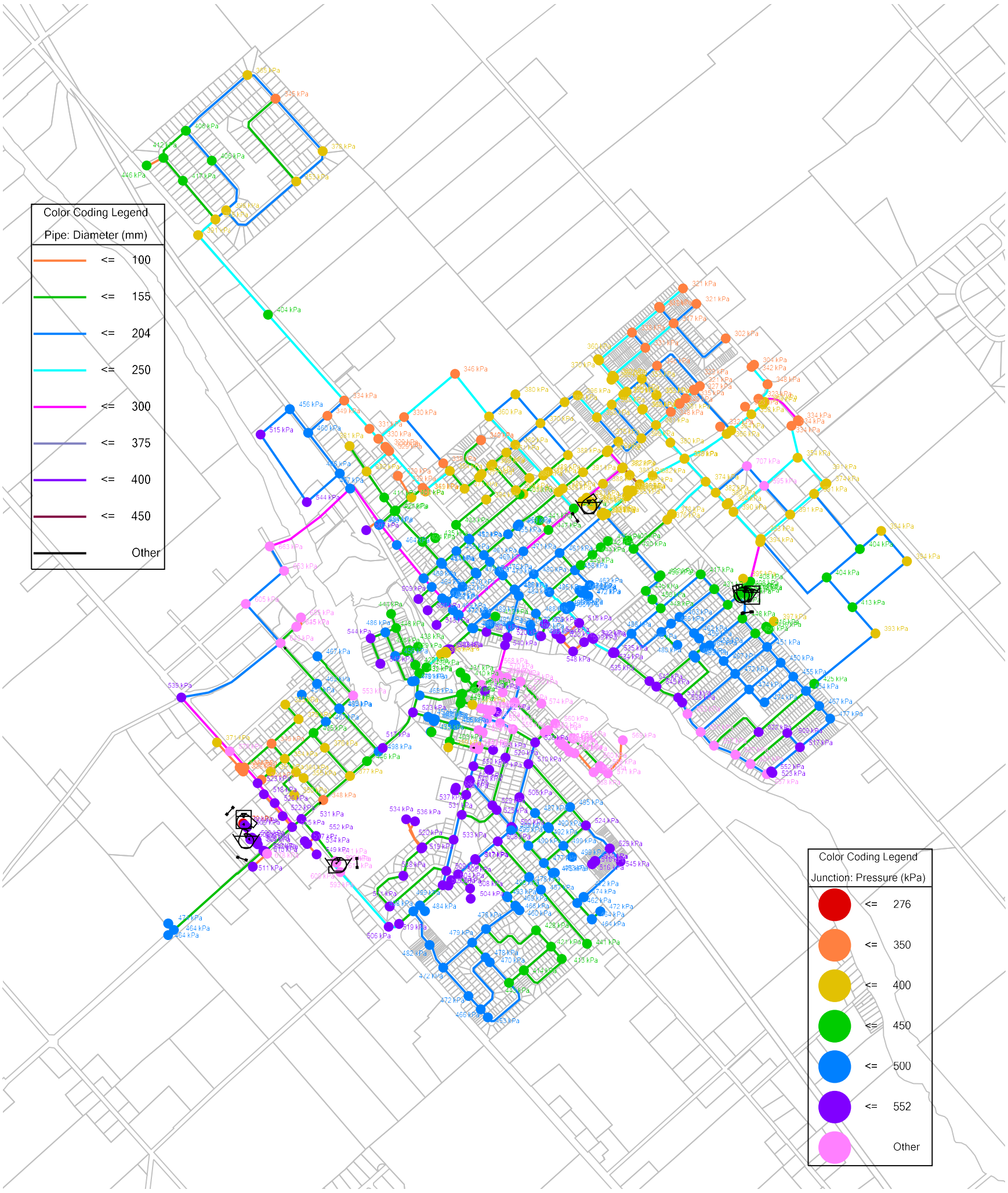
Mississippi Mills Almonte Water Master Plan
Maximum Day Demand with Fire Flow
Mid Term (2028 to 2038) with Upgrades



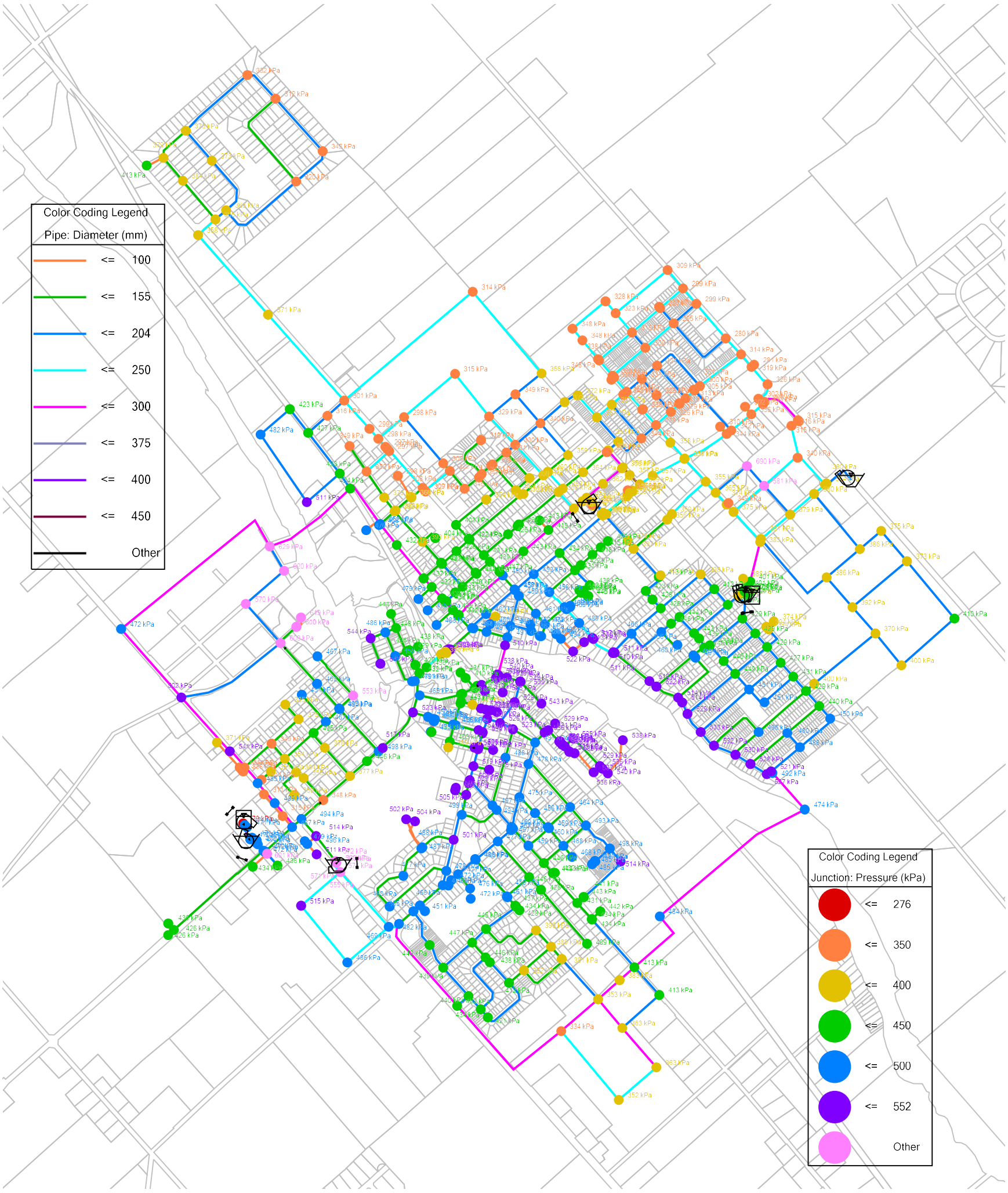
Mississippi Mills Almonte Water Master Plan
Maximum Day Demand with Fire Flow
Long Term (2038 to 2048) with Upgrades



Mississippi Mills Almonte Water Master Plan
Peak Hour Demand
Short Term (2023 to 2028) with Upgrades



Mississippi Mills Almonte Water Master Plan
Peak Hour Demand
Mid Term (2028 to 2038) with Upgrades



Mississippi Mills Almonte Water Master Plan
Peak Hour Demand
Long Term (2038 to 2048) with Upgrades