

WATERLINE PROJECT CONTROL AND COORDINATE DATA						
POINT NO.	BASELINE STATION	OFFSET	SIDE	DESCRIPTION	NORTHING	EASTING
Waterline I						
400	300+00.00	0.00'	€	Hot tap w/ valve, connect to exist. WL	1,671,896.2380	1,634,155.1190
401	300+06.46	0.00'	€	12" - 90° Horizontal Bend	1,671,896.2975	1,634,161.5796
402	300+30.00	0.00'	€	Vertical P.I.	1,671,919.8356	1,634,161.3579
403	300+87.05	77.65'	Lt.	1" Long Service Line	1,671,976.1530	1,634,083.1697
404	300+91.46	0.00'	€	Fire Hydrant Assy.	1,671,981.2936	1,634,160.7788
405	301+16.14	0.00'	€	12"x8" Tee - Waterline 1A	1,672,005.9733	1,634,160.5463
406	301+42.44	0.00'	€	12"x8" Tee - Waterline 1B	1,672,032.2751	1,634,160.2985
407	302+77.92	80.88'	Lt.	2" Long Service Line	1,672,166.9818	1,634,078.1435
408	302+87.99	0.00'	€	12"x8" Tee - Waterline 1C	1,672,180.8141	1,634,158.8991
409	303+55.00	0.00'	€	Vertical P.I.	1,672,244.8212	1,634,158.2961
410	303+95.99	0.00'	€	12" - 22.5° Horizontal Bend	1,672,285.8112	1,634,157.9099
411	303+95.99	94.23'	Lt.	1" Long Service Line	1,672,315.1637	1,634,068.3687
412	304+33.88	0.00'	€	12" - 22.5° Horizontal Bend	1,672,320.9523	1,634,172.0794
413	304+81.88	9.50'	Lt.	Fire Hydrant Assy.	1,672,368.8607	1,634,162.1277
414	304+87.88	0.00'	€	12"x6" Tee (W)	1,672,374.9499	1,634,171.5707
415	306+39.66	1.75'	Lt.	Short Service	1,672,526.7008	1,634,168.3910
416	306+47.40	0.00'	€	12" - 45° Horizontal Bend	1,672,534.4558	1,634,170.0680
417	306+51.64	0.00'	€	12" - 45° Horizontal Bend	1,672,537.4839	1,634,173.0396
418	306+78.76	106.25'	Lt.	1" Long Service Line	1,672,563.6053	1,634,066.5388
419	307+07.29	0.00'	€	12" - 45° Horizontal Bend	1,672,593.1383	1,634,172.5152
420	307+12.95	0.00'	€	12" - 45° Horizontal Bend	1,672,597.1758	1,634,176.4774
421	307+88.28	109.18'	Lt.	1" Long Service Line	1,672,671.4684	1,634,066.5952
422	307+90.27	109.19'	Lt.	2" Long Service Line	1,672,673.4641	1,634,066.5678
423	307+92.27	5.53'	Lt.	1" Short Service Line	1,672,676.4363	1,634,170.1973
424	307+95.48	0.00'	€	12"x6" Tee (W)	1,672,679.6993	1,634,175.6999
425	308+00.00	0.00'	€	Vertical P.I.	1,672,684.2205	1,634,175.6573
426	308+01.48	5.59'	Lt.	Fire Hydrant Assy.	1,672,685.6463	1,634,170.0520
427	308+15.96	5.75'	Lt.	1" Short Service Line	1,672,700.1207	1,634,169.7572
428	309+05.34	0.00'	€	12" - 22.5° Horizontal Bend	1,672,789.5581	1,634,174.6649
429	309+25.34	0.00'	€	2.7" Horizontal P.I.	1,672,808.1070	1,634,182.1441
430	309+79.84	0.00'	€	12" - 22.5° Horizontal Bend	1,672,857.6184	1,634,204.9275
431	311+22.22	0.00'	€	12" Anchored Valve Assy. (S)	1,672,999.9680	1,634,202.3157
432	311+23.77	0.00'	€	12"x12" Tee - Waterline 2	1,673,001.5240	1,634,202.3157
433	311+25.33	0.00'	€	12" Anchored Valve Assy. (N)	1,673,003.0797	1,634,202.2874
434	311+42.67	0.00'	€	12" - 33.75° Horizontal Bend	1,673,020.4202	1,634,201.9727
435	311+97.10	0.00'	€	12" - 33.75° Horizontal Bend	1,673,065.0284	1,634,170.7909
436	313+70.37	0.00'	€	12"x8" Tee - Waterline 1D	1,673,238.2568	1,634,167.1498
437	313+71.96	0.00'	€	12" Anchored Valve Assy. (N)	1,673,239.8473	1,634,167.1163
438	314+68.45	0.00'	€	Vertical P.I.	1,673,336.3196	1,634,165.0886
439	314+72.81	0.00'	€	Vertical P.I.	1,673,340.6786	1,634,164.9969
440	314+85.81	0.00'	€	Vertical P.I.	1,673,353.6757	1,634,164.7237
441	315+41.31	0.00'	€	Vertical P.I.	1,673,409.1635	1,634,163.5574
442	315+47.84	0.00'	€	12" Anchored Valve Assy. (S)	1,673,415.6884	1,634,163.4203
443	315+49.31	0.00'	€	12"x12" Tee - Waterline 1E	1,673,417.1571	1,634,163.3894
444	315+54.31	0.00'	€	12"x6" Tee (E)	1,673,422.1560	1,634,163.2843
445	315+61.31	8.96'	Rt.	Fire Hydrant Assy.	1,673,429.6398	1,634,172.0811
446	315+61.31	0.00'	€	12" - 45° Horizontal Bend	1,673,429.1545	1,634,163.1372
447	316+07.27	0.00'	€	12" - 45° Horizontal Bend	1,673,460.9643	1,634,129.9614
448	316+15.00	0.00'	€	Vertical P.I.	1,673,468.6952	1,634,129.7989
449	316+69.10	0.00'	€	2.2" Horizontal P.I.	1,673,522.7830	1,634,128.6620
450	317+21.63	0.00'	€	12" - 11.25° Horizontal Bend	1,673,575.2276	1,634,125.5906
451	317+33.39	0.00'	€	12" - 11.25° Horizontal Bend	1,673,585.8099	1,634,120.4631
452	317+45.00	0.00'	€	Vertical P.I.	1,673,597.3968	1,634,119.7845
453	317+53.39	0.00'	€	12" - 11.25° Horizontal Bend	1,673,605.7756	1,634,119.2938
454	317+65.15	0.00'	€	12" - 11.25° Horizontal Bend	1,673,616.8841	1,634,123.1509
455	318+46.00	0.00'	€	Vertical P.I.	1,673,697.5935	1,634,118.4242
456	318+49.88	0.00'	€	12"x8" Tee - Waterline 1F	1,673,701.4664	1,634,118.1973
457	318+51.36	0.00'	€	12" Anchored Valve Assy. (N)	1,673,702.9439	1,634,118.1108
458	318+61.60	0.00'	€	1.5" Horizontal P.I.	1,673,713.1625	1,634,117.5123
459	319+76.00	0.00'	€	Vertical P.I.	1,673,827.5071	1,634,113.8156
460	320+69.83	0.00'	€	0.5" Horizontal P.I.	1,673,921.2920	1,634,110.7835
461	321+02.03	0.00'	€	12"x6" Tee - Waterline 1G	1,673,953.4835	1,634,110.1069
462	321+23.65	58.75'	Lt.	1" Long Service Line	1,673,973.8629	1,634,050.9155
463	321+55.00	0.00'	€	Vertical P.I.	1,674,006.4393	1,634,108.9938
464	322+28.61	0.00'	€	12"x6" Tee - Waterline 1H	1,674,080.0304	1,634,107.4469
465	323+08.55	59.36'	Lt.	1" Long Service Line	1,674,158.7033	1,634,046.4202
466	323+15.86	19.04'	Rt.	1" Short Service Line	1,674,167.6662	1,634,124.6506
467	323+24.87	0.00'	€	Vertical P.I.	1,674,176.2718	1,634,105.4240
468	323+32.79	0.00'	€	Vertical P.I.	1,674,184.1901	1,634,105.2575
469	323+48.79	0.00'	€	Vertical P.I.	1,674,200.1865	1,634,104.9213
470	323+57.21	0.00'	€	Vertical P.I.	1,674,208.6047	1,634,104.7444
471	324+04.00	0.00'	€	Vertical P.I.	1,674,255.3843	1,634,103.7611
472	324+12.45	0.00'	€	12"x8" Tee - Waterline 1I	1,674,263.8312	1,634,103.5835
473	324+52.59	0.00'	€	Fire Hydrant Assy.	1,674,303.9650	1,634,102.7400
474	324+89.22	0.00'	€	12"x6" Tee - Waterline 1J	1,674,315.9623	1,634,102.4878
475	325+10.00	0.00'	€	Vertical P.I.	1,674,361.3609	1,634,101.5335
476	325+11.27	0.00'	€	12" - 11.25° Horizontal Bend	1,674,362.6288	1,634,101.5069
477	325+19.58	59.49'	Lt.	Long Service	1,674,358.6167	1,634,041.5760

WATERLINE PROJECT CONTROL AND COORDINATE DATA						
POINT NO.	BASELINE STATION	OFFSET	SIDE	DESCRIPTION	NORTHING	EASTING
Waterline I (Continued)						
478	325+25.34	0.00'	€	12" - 11.25° Horizontal Bend	1,674,376.4006	1,634,098.6344
479	325+39.34	0.00'	€	12" - 11.25° Horizontal Bend	1,674,390.4009	1,634,098.5046
480	325+53.46	0.00'	€	12" - 11.25° Horizontal Bend	1,674,404.2793	1,634,101.1315
481	326+95.26	0.00'	€	Vertical P.I.	1,674,546.0459	1,634,098.1517
482	328+44.14	59.28'	Lt.	1" Long Service Line	1,674,693.6503	1,634,035.7526
483	328+78.75	0.00'	€	12"x8" Tee - Waterline 1K	1,674,729.4954	1,634,094.2957
484	328+85.72	0.00'	€	Fire Hydrant Assy.	1,674,736.4671	1,634,094.1491
485	328+88.81	0.00'	€	Vertical P.I.	1,674,739.5532	1,634,094.0843
486	329+04.81	0.00'	€	Vertical P.I.	1,674,755.5496	1,634,093.7480
487	329+14.87	0.00'	€	Vertical P.I.	1,674,765.6074	1,634,093.5366
488	329+44.16	0.00'	€	12"x8" Tee - Waterline 1K	1,674,794.8903	1,634,092.9211
489	329+47.75	0.00'	€	12"x8" Tee - Waterline 1L	1,674,798.4818	1,634,092.8456
490	329+49.63	0.00'	€	12" Anchored Valve Assy. (N)	1,674,800.3590	1,634,092.8062
491	330+60.85	0.00'	€	Vertical P.I.	1,674,911.5552	1,634,090.4680
492	330+80.85	0.00'	€	Vertical P.I.	1,674,931.5508	1,634,090.0486
493	330+84.03	0.00'	€	Vertical P.I.	1,674,934.7301	1,634,089.9818
494	330+99.03	0.00'	€	Vertical P.I.	1,674,949.7268	1,634,089.6665
495	331+02.21	0.00'	€	Vertical P.I.	1,674,952.9061	1,634,089.5997
496	331+79.31	0.00'	€	Fire Hydrant Assy.	1,675,029.9881	1,634,087.9795
497	332+03.00	0.00'	€	Vertical P.I.	1,675,053.6738	1,634,087.4816
498	333+97.55	0.00'	€	Vertical P.I.	1,675,248.1808	1,634,083.3932
499	333+99.64	0.00'	€	Vertical P.I.	1,675,250.2704	1,634,083.3493
500	334+12.64	0.00'	€	Vertical P.I.	1,675,263.2675	1,634,083.0761
501	334+14.15	0.00'	€	Vertical P.I.	1,675,264.7772	1,634,083.0444
502	334+44.15	0.00'	€	Vertical P.I.	1,675,294.7705	1,634,082.4139
503	334+86.66	0.00'	€	12"x8" Tee - Waterline 1M	1,675,337.2670	1,634,081.5207
504	334+94.36	0.00'	€	12"x8" Tee - Waterline 1N	1,675,344.9657	1,634,081.3589
505	334+96.22	0.00'	€	12" Anchored Valve Assy. (N)	1,675,346.8244	1,634,081.3198
506	335+10.00	0.00'	€	Vertical P.I.	1,675,360.6060	1,634,081.0301
507	335+26.67	61.98'	Lt.	1" Long Service Line	1,675,375.9687	1,634,018.7165
508	335+56.73	61.72'	Lt.	1" Long Service Line	1,675,406.0330	1,634,018.3462
509	335+58.85	20.22'	Rt.	Short Service	1,675,409.8664	1,634,100.2183
510	335+83.44	61.72'	Lt.	1" Long Service Line	1,675,432.7307	1,634,017.7850
511	336+92.20	0.00'	€	12"x8" Tee - Waterline 1O	1,675,542.7621	1,634,077.2013
512	337+44.21	0.00'	€	Vertical P.I.	1,675,594.7643	1,634,076.1082
513	337+45.28	0.00'	€	1.0" Horizontal P.I.	1,675,595.8324	1,634,076.0858
514	337+51.05	0.00'	€	1.0" Horizontal P.I.	1,675,601.6036	1,634,076.0140
515	337+68.05	0.00'	€	1.0" Horizontal P.I.	1,675,618.6023	1,634,075.8024
516	337+73.09	0.00'	€	1.0" Horizontal P.I.	1,675,623.6419	1,634,075.7396
517	338+41.00	0.00'	€	1.0" Horizontal P.I.	1,675,691.5466	1,634,074.8942
518	339+35.00	0.00'	€	1.0" Horizontal P.I.	1,675,785.5393	1,634,073.7239
519	339+66.34	0.00'	€	Fire Hydrant Assy.	1,675,816.8782	1,634,073.3337
520	339+68.21	0.00'	€	12" Anchored Valve Assy. (N)	1,675,818.7514	1,634,073.3123
521	340+39.02	0.00'	€	12"x8" Tee - Waterline 1P	1,675,889.5512	1,634,072.4289
522	340+61.36	0.00'	€	12"x8" Tee - Waterline 1Q	1,675,911.8923	1,634,072.1507
523	340+84.95	0.00'	€	Vertical P.I.	1,675,935.4777	1,634,071.8571
524	340+89.66	0.00'	€	Vertical P.I.	1,675,940.1874	1,634,071.7984
525	341+04.66	0.00'	€	Vertical P.I.	1,675,955.1862	1,634,071.6117
526	341+10.04	0.00'	€	Vertical P.I.	1,675,960.5658	1,634,071.5447
527	342+33.00	0.00'	€	Vertical P.I.	1,676,083.5162	1,634,070.0139
528	342+44.26	60.90'	Lt.	1" Long Service Line	1,676,094.0187	1,634,008.9781
529	342+45.81	60.84'	Lt.	1" Long Service Line	1,676,095.5672	1,634,009.0170
530	342+46.83	63.47'	Lt.	1" Long Service Line	1,676,096.5582	1,634,006.3781