

**Appendix H**  
**Existing and Future Hydraulic Gradelines**

Lancaster CSO  
 Compare Existing (1996) Elevations to Future (2020) Elevations  
 Dry Weather Flow  
 Using XP-SWMM Output

Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)				
					1996 DWF	2020 DWF	Change	Exist HGL<8' bgs	2020 HGL<8' bgs
<b>East Portion of Collection System</b>								Yes= Possible Flooding	
<b>24" High Rising Park to Lake St.</b>									
	1442	Main and Mt. Pleasant	825.00	818.30	818.41	818.41	0.00	yes	yes
	1421	Lake and High	857.80	849.90	849.97	850.14	0.17	yes	yes
<b>30" Lake High St. to Maple St.</b>									
	282	Lake and Neal	836.50	828.05	828.18	828.40	0.22	no	no
	258	Maple and Lake	835.20	825.50	825.68	825.89	0.21	no	no
<b>48" Maple Maple Street</b>									
	560	Maple and 5th	836.00	823.16	823.29	823.42	0.13	no	no
	1685	Maple and Wheeling	831.50	817.90	818.09	818.20	0.11	no	no
<b>60" East Wheeling to MBP</b>									
	289	Main and Mt. Pleasant	826.50	815.50	815.73	815.82	0.09	no	no
	129	Chestnut and Cherry	823.00	807.90	808.18	808.26	0.08	no	no
	685	CSO 1019	818.00	805.50	805.81	805.94	0.13	no	no
	141	CSO 1026	815.30	807.02	807.32	807.37	0.05	yes	yes
	150	Main and Baldwin Run	815.18	808.20	808.38	808.40	0.02	yes	yes
<b>18" Fetters Stone Run Ct. to Granstaff</b>									
	68	Fetters Run and Granville Pike	872.50	856.55	856.64	856.63	-0.01	no	no
	64	Fetters Run and Smithfield	857.00	843.44	843.53	843.69	0.16	no	no
<b>24" Fetters Granstaff to Baldwin Run</b>									
	42	Fetters Run and Smithfield	836.00	825.75	825.83	826.04	0.21	no	no
	38	Wheeling and Cherry	822.00	811.97	812.23	812.33	0.10	no	no
<b>21" Ewing Rainbow to Valley Forge</b>									
	80	Ewing Run and Rainbow	900.50	885.69	885.80	885.97	0.17	no	no
	76	Ewing Run and Tiki Lane	894.00	879.61	879.80	879.95	0.15	no	no
<b>24" Ewing Valley Forge to Baldwin Run</b>									
	70	Ewing Run and Tiki Lane	873.00	861.93	862.04	862.19	0.15	no	no
	448	Wheeling and Brooks	819.00	807.94	808.34	808.35	0.01	no	no
<b>36" East Baldwin Run to MBP</b>									
	31	NE Mary Burnham Park	816.50	801.86	802.82	803.48	0.66	no	no
	18	Lawrence and Baldwin Run	816.50	800.89	802.76	803.43	0.67	no	no
<b>24" East Swchilk Rd to Pump Station</b>									
	116	Westlawn and RR	832.00	819.50	819.88	819.87	-0.01	no	no
	1418	Homestead and RR	828.00	813.10	813.70	813.79	0.09	no	no
<b>30" East Pump Station to MBP</b>									
	97	Baldwin Run and RR	820.00	810.48	810.73	810.75	0.02	no	no
	22	SE Mary Burnham Park	818.00	803.63	804.20	804.27	0.07	no	no
<b>48" East MBP to WPCF</b>									
	381	Lawrence and WWTP	812.10	800.57	802.73	803.41	0.68	no	no
	375	WWTP	811.83	799.69	802.72	803.39	0.67	no	no
<b>West Portion of Collection System</b>									
<b>15" West Corp Line to Ety Rd.</b>									
	842	W Fair and Collins	869.00	851.93	852.21	852.22	0.01	no	no
	846	W Fair and Collins	844.99	838.52	838.66	838.72	0.06	yes	yes
<b>18" West Ety Rd to Zimmer</b>									
	838	Ety and Hocking River	826.00	816.17	816.47	816.80	0.33	no	no
	773	Zimmer and Brannon	823.00	814.13	814.40	814.69	0.29	no	no
<b>12" Fair Corp Line to Nodler</b>									
	1200	W Fair and Barr	868.20	856.00	856.15	856.34	0.19	no	no
	860	W Fair and Barr	856.50	854.16	854.58	855.71	1.13	yes	yes

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Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)				
					1996 DWF	2020 DWF	Change	Exist HGL<8' bgs	2020 HGL<8' bgs
18" Fair		Nodler Dr. to Shasta							
	1206	W Fair and Nolder	864.00	850.63	851.01	851.43	0.42	no	no
	866	W Fair and Shasta	841.50	830.45	830.83	831.15	0.32	no	no
24" West		Zimmer to Shasta							
	864	W Fair and Shasta	853.20	845.90	846.16	846.52	0.36	yes	yes
	770	Zimmer and Meda	818.00	805.75	806.46	807.07	0.61	no	no
12" Scenic		Scenic Dr. to Ety Rd.							
	831	Columbus and Scenic	860.00	847.00	847.17	847.44	0.27	no	no
	1226	Columbus and Scenic	850.00	837.90	838.23	838.36	0.13	no	no
12" North		Hubbard Dr. to Ety Rd.							
	835	Columbus and Ety	848.00	836.06	836.21	836.89	0.68	no	no
	1021	Columbus and Ety	851.50	838.20	838.27	838.81	0.54	no	no
30" West		Columbus St. to Railroad							
	825	Columbus and Ety	847.93	834.00	834.20	834.38	0.18	no	no
	826	Ety and Riverway	837.64	820.71	821.18	821.51	0.33	no	no
30" West		Ety to Hocking St.							
	828	Ety and RR	829.50	814.72	815.02	815.26	0.24	no	no
	761	Harrison and Hocking	818.10	805.48	806.28	806.90	0.62	no	no
15" North		Corp. Line to Columbus St.							
	819	Columbus and Hawthorne	860.10	851.64	851.73	851.74	0.01	no	no
	817	Columbus and Pershing	853.90	840.52	840.76	840.75	-0.01	no	no
18" North		Columbus St. to Hocking St.							
	814	Arlington and Pershing	850.00	837.27	837.49	837.48	-0.01	no	no
	810	Arlington and Pershing	828.50	818.25	818.64	818.66	0.02	no	no
36" Fair		Hocking St. to YMCA PS							
	762	Beacon and Hocking	818.00	804.74	805.55	805.95	0.40	no	no
	739	Forest Rose and North	817.00	800.08	800.71	800.96	0.25	no	no
27" West		Wheeling to Walnut							
	484	Wheeling Pump Station	820.00	807.82	808.72	808.72	0.00	no	no
	476	Whiley and Main	819.00	806.50	807.52	807.67	0.15	no	no
36" West		Wheeling to Walnut							
	486	Main and Memorial	820.00	807.29	808.26	808.65	0.39	no	no
	1470	Main and Hocking River	820.10	807.80	808.02	808.02	0.00	no	no
27" West		Walnut to S. Broad							
	1456	Walnut and Whiley	816.10	806.32	807.32	807.41	0.09	no	no
	1457	27" plugged sewer -(not utilized i	815.50	806.06	807.32	807.23	-0.09	no	no
36" West		Walnut to S. Broad							
	1456	Walnut and Whiley	816.10	806.32	807.32	807.41	0.09	no	no
	1450	High and Canal	818.70	803.85	804.50	804.81	0.31	no	no
24" South		Corp. Line to SBPS							
	1039	S Broad and Lewis	812.10	801.55	801.96	801.99	0.03	no	no
	450	2nd and Elm	835.44	821.94	822.47	822.49	0.02	no	no
24" Fetters		Lincoln to Pierce Ave.							
	1485	Baker and Chestnut	827.00	816.58	816.86	817.05	0.19	no	no
	602	Boyce and Ellwood	837.40	822.26	822.47	822.76	0.29	no	no
24" Fetters		Pierce Ave to Railroad							
	610	Witte and RR	823.00	804.18	804.77	804.91	0.14	no	no
	600	Witte and Center	834.30	812.07	812.49	812.65	0.16	no	no
30" West		Hunter Ave to SBPS							
	437	Lewis and Eagle	813.30	803.07	803.99	804.13	0.14	no	no
	1403	S Broad and Lewis	817.00	797.46	797.85	797.93	0.08	no	no
27" West		S. Broad to Maple							
	420	Maple and Canal	815.00	803.10	804.25	804.57	0.32	no	no

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 Compare Existing (1996) Elevations to Future (2020) Elevations  
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Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)				
					1996 DWF	2020 DWF	Change	Exist HGL<8' bgs	2020 HGL<8' bgs
	418	Maple and Hocking River	815.50	802.20	802.97	803.74	0.77	no	no
36" West		S. Broad to Maple							
	425	High and Canal	820.00	803.04	804.55	804.92	0.37	no	no
	1449	Maple and Hocking River	816.50	801.43	803.00	803.71	0.71	no	no
27" West		Maple to WPCF							
	365	Wheat and Canal	815.00	801.95	802.88	803.62	0.74	no	no
	2	Wheat and Canal	816.50	801.67	802.85	803.60	0.75	no	no
	627	Lawrence and Wheat	820.50	809.00	809.14	809.15	0.01	no	no
	1072	End of Carpenter	810.00	805.10	805.33	805.32	-0.01	yes	yes
42" West		Maple St. to Railroad							
	413	Maple and Hocking River	811.00	800.48	802.90	803.63	0.73	no	yes
	361	W. WWTP	811.00	800.28	802.82	803.53	0.71	no	yes
	4	Wyandot and Lawrence	811.11	804.00	804.07	804.06	-0.01	yes	yes
	323	Cherokee	813.70	805.50	805.56	805.56	0.00	no	no
48" West		Railroad to WPCF							
	352	WWTP	816.50	800.10	802.79	803.50	0.71	no	no
	375	WWTP	811.83	799.69	802.72	803.39	0.67	no	no

BGS= Below Ground Surface

Existing - 1996 Base model

Future - 2020 Model Assuming Additional Sanitary Flow and CSO and I/I Sewer System Improvements

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 Compare Existing (1996) Elevations to Future (1999) Elevations  
 Design Storm 4 (1.87-inches/8.6 Hours)  
 Using XP-SWMM Output

Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)				
					1996 Storm 7	1999 Storm 7	Change	1996 Storm 7 HGL<8' bgs	1999 Storm 7 HGL<8' bgs
<b>East Portion of Collection System</b>								Yes= Possible Flooding	
<b>24" High Rising Park to Lake St.</b>									
	1442	Main and Mt. Pleasant	825.00	818.30	818.41	818.41	0.00	yes	yes
	1421	Lake and High	857.80	849.90	850.14	850.15	0.01	yes	yes
<b>30" Lake High St. to Maple St.</b>									
	282	Lake and Neal	836.50	828.05	828.68	828.61	-0.07	yes	yes
	258	Maple and Lake	835.20	825.50	826.48	826.50	0.02	no	no
<b>48" Maple Maple Street</b>									
	560	Maple and 5th	836.00	823.16	823.78	823.79	0.01	no	no
	1685	Maple and Wheeling	831.50	817.90	818.93	818.93	0.00	no	no
<b>60" East Wheeling to MBP</b>									
	289	Main and Mt. Pleasant	826.50	815.50	816.68	816.69	0.01	no	no
	129	Chestnut and Cherry	823.00	807.90	809.63	809.63	0.00	no	no
	685	CSO 1019	818.00	805.50	806.77	806.79	0.02	no	no
	141	CSO 1026	815.30	807.02	807.98	807.98	0.00	yes	yes
	150	Main and Baldwin Run	815.18	808.20	808.98	808.98	0.00	yes	yes
<b>18" Feters Stone Run Ct. to Granstaff</b>									
	68	Feters Run and Granville Pike	872.50	856.55	856.64	856.65	0.01	no	no
	64	Feters Run and Smithfield	857.00	843.44	843.53	843.67	0.14	no	no
<b>24" Feters Granstaff to Baldwin Run</b>									
	42	Feters Run and Smithfield	836.00	825.75	825.83	826.03	0.20	no	no
	38	Wheeling and Cherry	822.00	811.97	812.70	812.69	-0.01	no	no
<b>21" Ewing Rainbow to Valley Forge</b>									
	80	Ewing Run and Rainbow	900.50	885.69	885.80	885.83	0.03	no	no
	76	Ewing Run and Tiki Lane	894.00	879.61	879.80	879.82	0.02	no	no
<b>24" Ewing Valley Forge to Baldwin Run</b>									
	70	Ewing Run and Tiki Lane	873.00	861.93	862.04	862.09	0.05	no	no
	448	Wheeling and Brooks	819.00	807.94	808.36	808.35	-0.01	no	no
<b>36" East Baldwin Run to MBP</b>									
	31	NE Mary Burnham Park	816.50	801.86	806.29	806.41	0.12	no	no
	18	Lawrence and Baldwin Run	816.50	800.89	806.16	806.27	0.11	no	no
<b>24" East Swchik Rd to Pump Station</b>									
	116	Westlawn and RR	832.00	819.50	820.13	820.13	0.00	no	no
	1418	Homestead and RR	828.00	813.10	813.70	813.79	0.09	no	no
<b>30" East Pump Station to MBP</b>									
	97	Baldwin Run and RR	820.00	810.48	811.04	811.04	0.00	no	no
	22	SE Mary Burnham Park	818.00	803.63	806.18	806.29	0.11	no	no
<b>48" East MBP to WPCF</b>									
	381	Lawrence and WWTP	812.10	800.57	806.01	806.12	0.11	yes	yes
	375	WWTP	811.83	799.69	805.89	806.03	0.14	yes	yes
<b>West Portion of Collection System</b>									
<b>15" West Corp Line to Ety Rd.</b>									
	842	W Fair and Collins	869.00	851.93	852.21	852.22	0.01	no	no
	846	W Fair and Collins	844.99	838.52	838.66	838.72	0.06	yes	yes
<b>18" West Ety Rd to Zimmer</b>									
	838	Ety and Hocking River	826.00	816.17	816.49	816.75	0.26	no	no
	773	Zimmer and Brannon	823.00	814.13	814.40	814.46	0.06	no	no
<b>12" Fair Corp Line to Nodler</b>									
	1200	W Fair and Barr	868.20	856.00	856.15	856.21	0.06	no	no
	860	W Fair and Barr	856.50	854.16	854.58	854.84	0.26	yes	yes

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 Compare Existing (1996) Elevations to Future (1999) Elevations  
 Design Storm 4 (1.87-inches/8.6 Hours)  
 Using XP-SWMM Output

Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)				
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18" Fair		Nodler Dr. to Shasta							
	1206	W Fair and Nolder	864.00	850.63	851.01	851.16	0.15	no	no
	866	W Fair and Shasta	841.50	830.45	830.83	830.95	0.12	no	no
24" West		Zimmer to Shasta							
	864	W Fair and Shasta	853.20	845.90	846.16	846.30	0.14	yes	yes
	770	Zimmer and Meda	818.00	805.75	806.65	807.01	0.36	no	no
12" Scenic		Scenic Dr. to Ety Rd.							
	831	Columbus and Scenic	860.00	847.00	847.17	847.33	0.16	no	no
	1226	Columbus and Scenic	850.00	837.90	838.23	838.31	0.08	no	no
12" North		Hubbard Dr. to Ety Rd.							
	835	Columbus and Ety	848.00	836.06	836.21	837.24	1.03	no	no
	1021	Columbus and Ety	851.50	838.20	838.27	838.63	0.36	no	no
30" West		Columbus St. to Railroad							
	825	Columbus and Ety	847.93	834.00	834.20	834.38	0.18	no	no
	826	Ety and Riverway	837.64	820.71	821.18	821.37	0.19	no	no
30" West		Ety to Hocking St.							
	828	Ety and RR	829.50	814.72	815.02	815.28	0.26	no	no
	761	Harrison and Hocking	818.10	805.48	806.43	806.86	0.43	no	no
15" North		Corp. Line to Columbus St.							
	819	Columbus and Hawthorne	860.10	851.64	851.73	851.74	0.01	no	no
	817	Columbus and Pershing	853.90	840.52	840.76	840.75	-0.01	no	no
18" North		Columbus St. to Hocking St.							
	814	Arlington and Pershing	850.00	837.27	837.49	837.49	0.00	no	no
	810	Arlington and Pershing	828.50	818.25	818.64	818.66	0.02	no	no
36" Fair		Hocking St. to YMCA PS							
	762	Beacon and Hocking	818.00	804.74	805.74	806.01	0.27	no	no
	739	Forest Rose and North	817.00	800.08	801.02	801.12	0.10	no	no
27" West		Wheeling to Walnut							
	484	Wheeling Pump Station	820.00	807.82	811.61	811.67	0.06	no	no
	476	Whiley and Main	819.00	806.50	811.25	811.11	-0.14	yes	yes
36" West		Wheeling to Walnut							
	486	Main and Memorial	820.00	807.29	813.01	812.79	-0.22	yes	yes
	1470	Main and Hocking River	820.10	807.80	809.22	809.23	0.01	no	no
27" West		Walnut to S. Broad							
	1456	Walnut and Whiley	816.10	806.32	811.38	811.23	-0.15	yes	yes
	1457	27" plugged sewer -(not utilized i	815.50	806.06	811.19	810.81	-0.38	yes	yes
36" West		Walnut to S. Broad							
	1456	Walnut and Whiley	816.10	806.32	811.38	811.23	-0.15	yes	yes
	1450	High and Canal	818.70	803.85	809.00	809.91	0.91	no	no
24" South		Corp. Line to SBPS							
	1039	S Broad and Lewis	812.10	801.55	802.11	802.11	0.00	no	no
	450	2nd and Elm	835.44	821.94	822.47	822.49	0.02	no	no
24" Fetters		Lincoln to Pierce Ave.							
	1485	Baker and Chestnut	827.00	816.58	816.93	816.93	0.00	no	no
	602	Boyce and Ellwood	837.40	822.26	822.47	822.46	-0.01	no	no
24" Fetters		Pierce Ave to Railroad							
	610	Witte and RR	823.00	804.18	804.95	804.96	0.01	no	no
	600	Witte and Center	834.30	812.07	812.51	812.52	0.01	no	no
30" West		Hunter Ave to SBPS							
	437	Lewis and Eagle	813.30	803.07	804.08	804.08	0.00	no	no
	1403	S Broad and Lewis	817.00	797.46	798.02	798.02	0.00	no	no
27" West		S. Broad to Maple							
	420	Maple and Canal	815.00	803.10	808.92	809.81	0.89	yes	yes
	418	Maple and Hocking River	815.50	802.20	808.32	809.03	0.71	yes	yes
36" West		S. Broad to Maple							
	425	High and Canal	820.00	803.04	808.98	809.89	0.91	no	no
	1449	Maple and Hocking River	816.50	801.43	807.72	808.39	0.67	no	no

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27" West		Maple to WPCF							
	365	Wheat and Canal	815.00	801.95	806.91	807.60	0.69	no	yes
	2	Wheat and Canal	816.50	801.67	806.60	807.50	0.90	no	no
	627	Lawrence and Wheat	820.50	809.00	809.50	809.50	0.00	no	no
	1072	End of Carpenter	810.00	805.10	805.57	805.59	0.02	yes	yes
42" West		Maple St. to Railroad							
	413	Maple and Hocking River	811.00	800.48	807.06	807.68	0.62	yes	yes
	361	W. WWTP	811.00	800.28	806.29	806.59	0.30	yes	yes
	4	Wyandot and Lawrence	811.11	804.00	806.02	806.19	0.17	yes	yes
	323	Cherokee	813.70	805.50	806.07	806.23	0.16	yes	yes
48" West		Railroad to WPCF							
	352	WWTP	816.50	800.10	806.06	806.25	0.19	no	no
	375	WWTP	811.83	799.69	805.89	806.03	0.14	yes	yes

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<b>East Portion of Collection System</b>								Yes= Possible Flooding	
24" High		Rising Park to Lake St.							
	1442	Main and Mt. Pleasant	825.00	818.30	818.41	818.41	0.00	yes	yes
	1421	Lake and High	857.80	849.90	850.14	850.22	0.08	yes	yes
30" Lake		High St. to Maple St.							
	282	Lake and Neal	836.50	828.05	828.68	828.59	-0.09	yes	yes
	258	Maple and Lake	835.20	825.50	826.48	826.33	-0.15	no	no
48" Maple		Maple Street							
	560	Maple and 5th	836.00	823.16	823.78	823.63	-0.15	no	no
	1685	Maple and Wheeling	831.50	817.90	818.93	818.65	-0.28	no	no
60" East		Wheeling to MBP							
	289	Main and Mt. Pleasant	826.50	815.50	816.68	816.43	-0.25	no	no
	129	Chestnut and Cherry	823.00	807.90	809.63	809.30	-0.33	no	no
	685	CSO 1019	818.00	805.50	806.77	807.51	0.74	no	no
	141	CSO 1026	815.30	807.02	807.98	807.99	0.01	yes	yes
	150	Main and Baldwin Run	815.18	808.20	808.98	808.98	0.00	yes	yes
18" Fetters		Stone Run Ct. to Granstaff							
	68	Fetters Run and Granville Pike	872.50	856.55	856.64	856.63	-0.01	no	no
	64	Fetters Run and Smithfield	857.00	843.44	843.53	843.69	0.16	no	no
24" Fetters		Granstaff to Baldwin Run							
	42	Fetters Run and Smithfield	836.00	825.75	825.83	826.08	0.25	no	no
	38	Wheeling and Cherry	822.00	811.97	812.70	812.74	0.04	no	no
21" Ewing		Rainbow to Valley Forge							
	80	Ewing Run and Rainbow	900.50	885.69	885.80	885.99	0.19	no	no
	76	Ewing Run and Tiki Lane	894.00	879.61	879.80	879.98	0.18	no	no
24" Ewing		Valley Forge to Baldwin Run							
	70	Ewing Run and Tiki Lane	873.00	861.93	862.04	862.22	0.18	no	no
	448	Wheeling and Brooks	819.00	807.94	808.36	808.41	0.05	no	no
36" East		Baldwin Run to MBP							
	31	NE Mary Burnham Park	816.50	801.86	806.29	806.66	0.37	no	no
	18	Lawrence and Baldwin Run	816.50	800.89	806.16	806.44	0.28	no	no
24" East		Swchilk Rd to Pump Station							
	116	Westlawn and RR	832.00	819.50	820.13	820.12	-0.01	no	no
	1418	Homestead and RR	828.00	813.10	813.70	813.79	0.09	no	no
30" East		Pump Station to MBP							
	97	Baldwin Run and RR	820.00	810.48	811.04	811.04	0.00	no	no
	22	SE Mary Burnham Park	818.00	803.63	806.18	806.47	0.29	no	no
48" East		MBP to WPCF							
	381	Lawrence and WWTP	812.10	800.57	806.01	806.24	0.23	yes	yes
	375	WWTP	811.83	799.69	805.89	806.13	0.24	yes	yes
<b>West Portion of Collection System</b>									
15" West		Corp Line to Ety Rd.							
	842	W Fair and Collins	869.00	851.93	852.21	852.24	0.03	no	no
	846	W Fair and Collins	844.99	838.52	838.66	838.75	0.09	yes	yes
18" West		Ety Rd to Zimmer							
	838	Ety and Hocking River	826.00	816.17	816.49	816.81	0.32	no	no
	773	Zimmer and Brannon	823.00	814.13	814.40	814.51	0.11	no	no
12" Fair		Corp Line to Nodler							
	1200	W Fair and Barr	868.20	856.00	856.15	856.19	0.04	no	no
	860	W Fair and Barr	856.50	854.16	854.58	855.03	0.45	yes	yes

Lancaster CSO  
 Compare Existing (1996) Elevations to Future (2005) Elevations  
 Design Storm 4 (1.87-inches / 8.6 Hours)  
 Using XP-SWMM Output

Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)				
					1996 Storm 7	2005 Storm 7	Change	1996 Storm 7 HGL<8' bgs	2005 Storm 7 HGL<8' bgs
18" Fair Nodler Dr. to Shasta									
	1206	W Fair and Nolder	864.00	850.63	851.01	851.28	0.27	no	no
	866	W Fair and Shasta	841.50	830.45	830.83	831.06	0.23	no	no
24" West Zimmer to Shasta									
	864	W Fair and Shasta	853.20	845.90	846.16	846.42	0.26	yes	yes
	770	Zimmer and Meda	818.00	805.75	806.65	807.24	0.59	no	no
12" Scenic Scenic Dr. to Ety Rd.									
	831	Columbus and Scenic	860.00	847.00	847.17	847.38	0.21	no	no
	1226	Columbus and Scenic	850.00	837.90	838.23	838.34	0.11	no	no
12" North Hubbard Dr. to Ety Rd.									
	835	Columbus and Ety	848.00	836.06	836.21	838.69	2.48	no	no
	1021	Columbus and Ety	851.50	838.20	838.27	839.14	0.87	no	no
30" West Columbus St. to Railroad									
	825	Columbus and Ety	847.93	834.00	834.20	834.42	0.22	no	no
	826	Ety and Riverway	837.64	820.71	821.18	821.45	0.27	no	no
30" West Ety to Hocking St.									
	828	Ety and RR	829.50	814.72	815.02	815.35	0.33	no	no
	761	Harrison and Hocking	818.10	805.48	806.43	807.07	0.64	no	no
15" North Corp. Line to Columbus St.									
	819	Columbus and Hawthorne	860.10	851.64	851.73	851.74	0.01	no	no
	817	Columbus and Pershing	853.90	840.52	840.76	840.75	-0.01	no	no
18" North Columbus St. to Hocking St.									
	814	Arlington and Pershing	850.00	837.27	837.49	837.49	0.00	no	no
	810	Arlington and Pershing	828.50	818.25	818.64	818.66	0.02	no	no
36" Fair Hocking St. to YMCA PS									
	762	Beacon and Hocking	818.00	804.74	805.74	806.13	0.39	no	no
	739	Forest Rose and North	817.00	800.08	801.02	801.19	0.17	no	no
27" West Wheeling to Walnut									
	484	Wheeling Pump Station	820.00	807.82	811.61	811.65	0.04	no	no
	476	Whiley and Main	819.00	806.50	811.25	811.19	-0.06	yes	yes
36" West Wheeling to Walnut									
	486	Main and Memorial	820.00	807.29	813.01	812.79	-0.22	yes	yes
	1470	Main and Hocking River	820.10	807.80	809.22	809.24	0.02	no	no
27" West Walnut to S. Broad									
	1456	Walnut and Whiley	816.10	806.32	811.38	811.26	-0.12	yes	yes
	1457	27" plugged sewer -(not utilized i	815.50	806.06	811.19	810.93	-0.26	yes	yes
36" West Walnut to S. Broad									
	1456	Walnut and Whiley	816.10	806.32	811.38	811.26	-0.12	yes	yes
	1450	High and Canal	818.70	803.85	809.00	809.99	0.99	no	no
24" South Corp. Line to SBPS									
	1039	S Broad and Lewis	812.10	801.55	802.11	802.11	0.00	no	no
	450	2nd and Elm	835.44	821.94	822.47	822.49	0.02	no	no
24" Fetters Lincoln to Pierce Ave.									
	1485	Baker and Chestnut	827.00	816.58	816.93	817.07	0.14	no	no
	602	Boyce and Ellwood	837.40	822.26	822.47	822.67	0.20	no	no
24" Fetters Pierce Ave to Railroad									
	610	Witte and RR	823.00	804.18	804.95	805.02	0.07	no	no
	600	Witte and Center	834.30	812.07	812.51	812.63	0.12	no	no
30" West Hunter Ave to SBPS									
	437	Lewis and Eagle	813.30	803.07	804.08	804.17	0.09	no	no
	1403	S Broad and Lewis	817.00	797.46	798.02	798.04	0.02	no	no
27" West S. Broad to Maple									
	420	Maple and Canal	815.00	803.10	808.92	809.88	0.96	yes	yes
	418	Maple and Hocking River	815.50	802.20	808.32	809.19	0.87	yes	yes
36" West S. Broad to Maple									
	425	High and Canal	820.00	803.04	808.98	809.96	0.98	no	no
	1449	Maple and Hocking River	816.50	801.43	807.72	808.54	0.82	no	yes

Lancaster CSO  
 Compare Existing (1996) Elevations to Future (2005) Elevations  
 Design Storm 4 (1.87-inches / 8.6 Hours)  
 Using XP-SWMM Output

Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)				
					1996 Storm 7	2005 Storm 7	Change	1996 Storm 7 HGL<8' bgs	2005 Storm 7 HGL<8' bgs
27" West		Maple to WPCF							
	365	Wheat and Canal	815.00	801.95	806.91	807.71	0.80	no	yes
	2	Wheat and Canal	816.50	801.67	806.60	807.60	1.00	no	no
	627	Lawrence and Wheat	820.50	809.00	809.50	809.50	0.00	no	no
	1072	End of Carpenter	810.00	805.10	805.57	805.60	0.03	yes	yes
42" West		Maple St. to Railroad							
	413	Maple and Hocking River	811.00	800.48	807.06	807.79	0.73	yes	yes
	361	W. WWTP	811.00	800.28	806.29	806.66	0.37	yes	yes
	4	Wyandot and Lawrence	811.11	804.00	806.02	806.26	0.24	yes	yes
	323	Cherokee	813.70	805.50	806.07	806.30	0.23	yes	yes
48" West		Railroad to WPCF							
	352	WWTP	816.50	800.10	806.06	806.31	0.25	no	no
	375	WWTP	811.83	799.69	805.89	806.13	0.24	yes	yes

Lancaster CSO  
 Compare Existing (1996) Elevations to Future (2020) Elevations  
 Design Storm 4 (1.87-inches / 8.6 Hours)  
 Using XP-SWMM Output

Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)				
					1996 Storm 7	2020 Storm 7	Change	1996 Storm 7 HGL<8' bgs	2020 Storm 7 HGL<8' bgs
<b>East Portion of Collection System</b>								<b>Yes= Possible Flooding</b>	
<b>24" High Rising Park to Lake St.</b>									
	1442	Main and Mt. Pleasant	825.00	818.30	818.41	818.41	0.00	yes	yes
	1421	Lake and High	857.80	849.90	850.14	850.25	0.11	yes	yes
<b>30" Lake High St. to Maple St.</b>									
	282	Lake and Neal	836.50	828.05	828.68	828.68	0.00	yes	yes
	258	Maple and Lake	835.20	825.50	826.48	826.37	-0.11	no	no
<b>48" Maple Maple Street</b>									
	560	Maple and 5th	836.00	823.16	823.78	823.66	-0.12	no	no
	1685	Maple and Wheeling	831.50	817.90	818.93	818.67	-0.26	no	no
<b>60" East Wheeling to MBP</b>									
	289	Main and Mt. Pleasant	826.50	815.50	816.68	816.44	-0.24	no	no
	129	Chestnut and Cherry	823.00	807.90	809.63	809.30	-0.33	no	no
	685	CSO 1019	818.00	805.50	806.77	807.52	0.75	no	no
	141	CSO 1026	815.30	807.02	807.98	807.99	0.01	yes	yes
	150	Main and Baldwin Run	815.18	808.20	808.98	808.98	0.00	yes	yes
<b>18" Fetters Stone Run Ct. to Granstaff</b>									
	68	Fetters Run and Granville Pike	872.50	856.55	856.64	856.63	-0.01	no	no
	64	Fetters Run and Smithfield	857.00	843.44	843.53	843.77	0.24	no	no
<b>24" Fetters Granstaff to Baldwin Run</b>									
	42	Fetters Run and Smithfield	836.00	825.75	825.83	826.14	0.31	no	no
	38	Wheeling and Cherry	822.00	811.97	812.70	812.86	0.16	no	no
<b>21" Ewing Rainbow to Valley Forge</b>									
	80	Ewing Run and Rainbow	900.50	885.69	885.80	886.01	0.21	no	no
	76	Ewing Run and Tiki Lane	894.00	879.61	879.80	880.00	0.20	no	no
<b>24" Ewing Valley Forge to Baldwin Run</b>									
	70	Ewing Run and Tiki Lane	873.00	861.93	862.04	862.26	0.22	no	no
	448	Wheeling and Brooks	819.00	807.94	808.36	808.49	0.13	no	no
<b>36" East Baldwin Run to MBP</b>									
	31	NE Mary Burnham Park	816.50	801.86	806.29	807.11	0.82	no	no
	18	Lawrence and Baldwin Run	816.50	800.89	806.16	806.63	0.47	no	no
<b>24" East Swchilk Rd to Pump Station</b>									
	116	Westlawn and RR	832.00	819.50	820.13	820.12	-0.01	no	no
	1418	Homestead and RR	828.00	813.10	813.70	813.79	0.09	no	no
<b>30" East Pump Station to MBP</b>									
	97	Baldwin Run and RR	820.00	810.48	811.04	811.06	0.02	no	no
	22	SE Mary Burnham Park	818.00	803.63	806.18	806.66	0.48	no	no
<b>48" East MBP to WPCF</b>									
	381	Lawrence and WWTP	812.10	800.57	806.01	806.35	0.34	yes	yes
	375	WWTP	811.83	799.69	805.89	806.22	0.33	yes	yes
<b>West Portion of Collection System</b>									
<b>15" West Corp Line to Ety Rd.</b>									
	842	W Fair and Collins	869.00	851.93	852.21	852.27	0.06	no	no
	846	W Fair and Collins	844.99	838.52	838.66	838.77	0.11	yes	yes
<b>18" West Ety Rd to Zimmer</b>									
	838	Ety and Hocking River	826.00	816.17	816.49	816.95	0.46	no	no
	773	Zimmer and Brannon	823.00	814.13	814.40	814.69	0.29	no	no
<b>12" Fair Corp Line to Nodler</b>									
	1200	W Fair and Barr	868.20	856.00	856.15	856.39	0.24	no	no
	860	W Fair and Barr	856.50	854.16	854.58	856.07	1.49	yes	yes
<b>18" Fair Nodler Dr. to Shasta</b>									
	1206	W Fair and Nolder	864.00	850.63	851.01	851.48	0.47	no	no
	866	W Fair and Shasta	841.50	830.45	830.83	831.24	0.41	no	no
<b>24" West Zimmer to Shasta</b>									
	864	W Fair and Shasta	853.20	845.90	846.16	846.60	0.44	yes	yes
	770	Zimmer and Meda	818.00	805.75	806.65	807.73	1.08	no	no
<b>12" Scenic Scenic Dr. to Ety Rd.</b>									
	831	Columbus and Scenic	860.00	847.00	847.17	847.46	0.29	no	no
	1226	Columbus and Scenic	850.00	837.90	838.23	838.40	0.17	no	no

Lancaster CSO  
 Compare Existing (1996) Elevations to Future (2020) Elevations  
 Design Storm 4 (1.87-inches / 8.6 Hours)  
 Using XP-SWMM Output

Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)				
					1996 Storm 7	2020 Storm 7	Change	1996 Storm 7 HGL<8' bgs	2020 Storm 7 HGL<8' bgs
12" North		Hubbard Dr. to Ety Rd.							
	835	Columbus and Ety	848.00	836.06	836.21	839.30	3.09	no	no
	1021	Columbus and Ety	851.50	838.20	838.27	839.91	1.64	no	no
30" West		Columbus St. to Railroad							
	825	Columbus and Ety	847.93	834.00	834.20	834.46	0.26	no	no
	826	Ety and Riverway	837.64	820.71	821.18	821.53	0.35	no	no
30" West		Ety to Hocking St.							
	828	Ety and RR	829.50	814.72	815.02	815.41	0.39	no	no
	761	Harrison and Hocking	818.10	805.48	806.43	807.42	0.99	no	no
15" North		Corp. Line to Columbus St.							
	819	Columbus and Hawthorne	860.10	851.64	851.73	851.74	0.01	no	no
	817	Columbus and Pershing	853.90	840.52	840.76	840.75	-0.01	no	no
18" North		Columbus St. to Hocking St.							
	814	Arlington and Pershing	850.00	837.27	837.49	837.49	0.00	no	no
	810	Arlington and Pershing	828.50	818.25	818.64	818.66	0.02	no	no
36" Fair		Hocking St. to YMCA PS							
	762	Beacon and Hocking	818.00	804.74	805.74	806.34	0.60	no	no
	739	Forest Rose and North	817.00	800.08	801.02	801.32	0.30	no	no
27" West		Wheeling to Walnut							
	484	Wheeling Pump Station	820.00	807.82	811.61	811.61	0.00	no	no
	476	Whiley and Main	819.00	806.50	811.25	811.12	-0.13	yes	yes
36" West		Wheeling to Walnut							
	486	Main and Memorial	820.00	807.29	813.01	812.49	-0.52	yes	yes
	1470	Main and Hocking River	820.10	807.80	809.22	809.24	0.02	no	no
27" West		Walnut to S. Broad							
	1456	Walnut and Whiley	816.10	806.32	811.38	811.08	-0.30	yes	yes
	1457	27" plugged sewer -(not utilized i	815.50	806.06	811.19	810.85	-0.34	yes	yes
36" West		Walnut to S. Broad							
	1456	Walnut and Whiley	816.10	806.32	811.38	811.08	-0.30	yes	yes
	1450	High and Canal	818.70	803.85	809.00	810.10	1.10	no	no
24" South		Corp. Line to SBPS							
	1039	S Broad and Lewis	812.10	801.55	802.11	802.11	0.00	no	no
	450	2nd and Elm	835.44	821.94	822.47	822.49	0.02	no	no
24" Feters		Lincoln to Pierce Ave.							
	1485	Baker and Chestnut	827.00	816.58	816.93	817.18	0.25	no	no
	602	Boyce and Ellwood	837.40	822.26	822.47	822.76	0.29	no	no
24" Feters		Pierce Ave to Railroad							
	610	Witte and RR	823.00	804.18	804.95	805.12	0.17	no	no
	600	Witte and Center	834.30	812.07	812.51	812.75	0.24	no	no
30" West		Hunter Ave to SBPS							
	437	Lewis and Eagle	813.30	803.07	804.08	804.27	0.19	no	no
	1403	S Broad and Lewis	817.00	797.46	798.02	798.08	0.06	no	no
27" West		S. Broad to Maple							
	420	Maple and Canal	815.00	803.10	808.92	810.02	1.10	yes	yes
	418	Maple and Hocking River	815.50	802.20	808.32	809.40	1.08	yes	yes
36" West		S. Broad to Maple							
	425	High and Canal	820.00	803.04	808.98	810.08	1.10	no	no
	1449	Maple and Hocking River	816.50	801.43	807.72	808.72	1.00	no	yes
27" West		Maple to WPCF							
	365	Wheat and Canal	815.00	801.95	806.91	807.84	0.93	no	yes
	2	Wheat and Canal	816.50	801.67	806.60	807.72	1.12	no	no
	627	Lawrence and Wheat	820.50	809.00	809.50	809.52	0.02	no	no
	1072	End of Carpenter	810.00	805.10	805.57	805.60	0.03	yes	yes
42" West		Maple St. to Railroad							
	413	Maple and Hocking River	811.00	800.48	807.06	807.92	0.86	yes	yes
	361	W. WWTP	811.00	800.28	806.29	806.74	0.45	yes	yes
	4	Wyandot and Lawrence	811.11	804.00	806.02	806.33	0.31	yes	yes
	323	Cherokee	813.70	805.50	806.07	806.37	0.30	yes	yes
48" West		Railroad to WPCF							
	352	WWTP	816.50	800.10	802.79	806.37	3.58	no	no
	375	WWTP	811.83	799.69	802.72	806.22	3.50	no	yes

Lancaster CSO  
 Compare Existing (1996) Elevations to Future (2020) Elevations  
 10 Year Storm (2.4-inches / 5.0 Hours)  
 Using XP-SWMM Output

Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)			1996 10-Year Storm HGL<8' bgs	2020 10-Year Storm HGL<8' bgs
					1996 10-Year Storm	2020 10-Year Storm	Change		
<b>East Portion of Collection System</b>								Yes= Possible Flooding	
24" High		Rising Park to Lake St.							
	1442	Main and Mt. Pleasant	825.00	818.30	823.14	822.08	-1.06	yes	yes
	1421	Lake and High	857.80	849.90	850.78	850.84	0.06	yes	yes
30" Lake		High St. to Maple St.							
	282	Lake and Neal	836.50	828.05	836.50	830.57	-5.93	yes	yes
	258	Maple and Lake	835.20	825.50	834.12	828.25	-5.87	yes	yes
48" Maple		Maple Street							
	560	Maple and 5th	836.00	823.16	833.23	825.32	-7.91	yes	no
	1685	Maple and Wheeling	831.50	817.90	823.14	820.50	-2.64	no	no
60" East		Wheeling to MBP							
	289	Main and Mt. Pleasant	826.50	815.50	822.54	820.32	-2.22	yes	yes
	129	Chestnut and Cherry	823.00	807.90	816.82	815.74	-1.08	yes	yes
	685	CSO 1019	818.00	805.50	808.86	809.16	0.30	no	no
	141	CSO 1026	815.30	807.02	808.70	808.70	0.00	yes	yes
	150	Main and Baldwin Run	815.18	808.20	812.32	812.32	0.00	yes	yes
18" Fetters		Stone Run Ct. to Granstaff							
	68	Fetters Run and Granville Pike	872.50	856.55	856.61	856.62	0.01	no	no
	64	Fetters Run and Smithfield	857.00	843.44	843.52	843.98	0.46	no	no
24" Fetters		Granstaff to Baldwin Run							
	42	Fetters Run and Smithfield	836.00	825.75	825.83	826.34	0.51	no	no
	38	Wheeling and Cherry	822.00	811.97	812.80	812.85	0.05	no	no
21" Ewing		Rainbow to Valley Forge							
	80	Ewing Run and Rainbow	900.50	885.69	885.80	886.16	0.36	no	no
	76	Ewing Run and Tiki Lane	894.00	879.61	879.80	880.14	0.34	no	no
24" Ewing		Valley Forge to Baldwin Run							
	70	Ewing Run and Tiki Lane	873.00	861.93	862.04	862.38	0.34	no	no
	448	Wheeling and Brooks	819.00	807.94	809.65	809.54	-0.11	no	no
36" East		Baldwin Run to MBP							
	31	NE Mary Burnham Park	816.50	801.86	809.50	809.36	-0.14	yes	yes
	18	Lawrence and Baldwin Run	816.50	800.89	808.11	807.99	-0.12	no	no
24" East		Swchilk Rd to Pump Station							
	116	Westlawn and RR	832.00	819.50	832.00	832.00	0.00	yes	yes
	1418	Homestead and RR	828.00	813.10	828.00	828.00	0.00	yes	yes
30" East		Pump Station to MBP							
	97	Baldwin Run and RR	820.00	810.48	811.34	811.33	-0.01	no	no
	22	SE Mary Burnham Park	818.00	803.63	808.16	808.06	-0.10	no	no
48" East		MBP to WPCF							
	381	Lawrence and WWTP	812.10	800.57	807.15	807.11	-0.04	yes	yes
	375	WWTP	811.83	799.69	806.99	806.98	-0.01	yes	yes
<b>West Portion of Collection System</b>									
15" West		Corp Line to Ety Rd.							
	842	W Fair and Collins	869.00	851.93	852.20	852.45	0.25	no	no
	846	W Fair and Collins	844.99	838.52	838.77	838.87	0.10	yes	yes
18" West		Ety Rd to Zimmer							
	838	Ety and Hocking River	826.00	816.17	816.54	817.38	0.84	no	no
	773	Zimmer and Brannon	823.00	814.13	814.48	815.19	0.71	no	yes
12" Fair		Corp Line to Nodler							
	1200	W Fair and Barr	868.20	856.00	856.20	860.48	4.28	no	yes
	860	W Fair and Barr	856.50	854.16	854.59	856.50	1.91	yes	yes
18" Fair		Nodler Dr. to Shasta							
	1206	W Fair and Nodler	864.00	850.63	851.02	851.52	0.50	no	no
	866	W Fair and Shasta	841.50	830.45	830.83	831.29	0.46	no	no
24" West		Zimmer to Shasta							
	864	W Fair and Shasta	853.20	845.90	846.17	846.65	0.48	yes	yes
	770	Zimmer and Meda	818.00	805.75	806.94	809.34	2.40	no	no
12" Scenic		Scenic Dr. to Ety Rd.							
	831	Columbus and Scenic	860.00	847.00	847.19	848.97	1.78	no	no
	1226	Columbus and Scenic	850.00	837.90	838.24	838.66	0.42	no	no
12" North		Hubbard Dr. to Ety Rd.							

Lancaster CSO  
 Compare Existing (1996) Elevations to Future (2020) Elevations  
 10 Year Storm (2.4-inches / 5.0 Hours)  
 Using XP-SWMM Output

Sewer Name	US Node	Location	Ground Elevation ft	Invert Elevation ft	Max. Elevation (ft)				
					1996 10-Year Storm	2020 10-Year Storm	Change	1996 10-Year Storm HGL<8' bgs	2020 10-Year Storm HGL<8' bgs
	835	Columbus and Ety	848.00	836.06	836.20	848.00	11.80	no	yes
	1021	Columbus and Ety	851.50	838.20	838.29	851.50	13.21	no	yes
30" West		Columbus St. to Railroad							
	825	Columbus and Ety	847.93	834.00	834.20	834.69	0.49	no	no
	826	Ety and Riverway	837.64	820.71	821.15	822.00	0.85	no	no
30" West		Ety to Hocking St.							
	828	Ety and RR	829.50	814.72	815.04	815.72	0.68	no	no
	761	Harrison and Hocking	818.10	805.48	806.68	808.62	1.94	no	no
15" North		Corp. Line to Columbus St.							
	819	Columbus and Hawthorne	860.10	851.64	851.73	851.73	0.00	no	no
	817	Columbus and Pershing	853.90	840.52	840.72	840.72	0.00	no	no
18" North		Columbus St. to Hocking St.							
	814	Arlington and Pershing	850.00	837.27	837.49	837.47	-0.02	no	no
	810	Arlington and Pershing	828.50	818.25	818.64	818.80	0.16	no	no
36" Fair		Hocking St. to YMCA PS							
	762	Beacon and Hocking	818.00	804.74	805.96	806.85	0.89	no	no
	739	Forest Rose and North	817.00	800.08	801.24	801.85	0.61	no	no
27" West		Wheeling to Walnut							
	484	Wheeling Pump Station	820.00	807.82	815.41	814.40	-1.01	yes	yes
	476	Whiley and Main	819.00	806.50	815.08	813.86	-1.22	yes	yes
36" West		Wheeling to Walnut							
	486	Main and Memorial	820.00	807.29	820.00	817.87	-2.13	yes	yes
	1470	Main and Hocking River	820.10	807.80	809.84	809.73	-0.11	no	no
27" West		Walnut to S. Broad							
	1456	Walnut and Whiley	816.10	806.32	815.27	814.03	-1.24	yes	yes
	1457	27" plugged sewer -(not utilized i	815.50	806.06	815.06	813.52	-1.54	yes	yes
36" West		Walnut to S. Broad							
	1456	Walnut and Whiley	816.10	806.32	815.27	814.03	-1.24	yes	yes
	1450	High and Canal	818.70	803.85	813.93	813.48	-0.45	yes	yes
24" South		Corp. Line to SBPS							
	1039	S Broad and Lewis	812.10	801.55	812.10	812.10	0.00	yes	yes
	450	2nd and Elm	835.44	821.94	822.47	822.47	0.00	no	no
24" Fetters		Lincoln to Pierce Ave.							
	1485	Baker and Chestnut	827.00	816.58	817.44	817.79	0.35	no	no
	602	Boyce and Ellwood	837.40	822.26	822.46	823.02	0.56	no	no
24" Fetters		Pierce Ave to Railroad							
	610	Witte and RR	823.00	804.18	815.01	816.00	0.99	yes	yes
	600	Witte and Center	834.30	812.07	813.52	817.84	4.32	no	no
30" West		Hunter Ave to SBPS							
	437	Lewis and Eagle	813.30	803.07	813.30	813.30	0.00	yes	yes
	1403	S Broad and Lewis	817.00	797.46	812.51	812.57	0.06	yes	yes
27" West		S. Broad to Maple							
	420	Maple and Canal	815.00	803.10	813.93	813.48	-0.45	yes	yes
	418	Maple and Hocking River	815.50	802.20	813.98	813.67	-0.31	yes	yes
36" West		S. Broad to Maple							
	425	High and Canal	820.00	803.04	813.92	813.47	-0.45	yes	yes
	1449	Maple and Hocking River	816.50	801.43	812.37	812.35	-0.02	yes	yes
27" West		Maple to WPCF							
	365	Wheat and Canal	815.00	801.95	810.27	810.59	0.32	yes	yes
	2	Wheat and Canal	816.50	801.67	809.87	810.49	0.62	yes	yes
	627	Lawrence and Wheat	820.50	809.00	815.71	815.97	0.26	yes	yes
	1072	End of Carpenter	810.00	805.10	809.17	809.17	0.00	yes	yes
42" West		Maple St. to Railroad							
	413	Maple and Hocking River	811.00	800.48	810.51	810.69	0.18	yes	yes
	361	W. WWTP	811.00	800.28	807.89	807.95	0.06	yes	yes
	4	Wyandot and Lawrence	811.11	804.00	811.11	811.11	0.00	yes	yes
	323	Cherokee	813.70	805.50	813.70	813.70	0.00	yes	yes
48" West		Railroad to WPCF							
	352	WWTP	816.50	800.10	807.08	807.10	0.02	no	no
	375	WWTP	811.83	799.69	806.99	806.98	-0.01	yes	yes