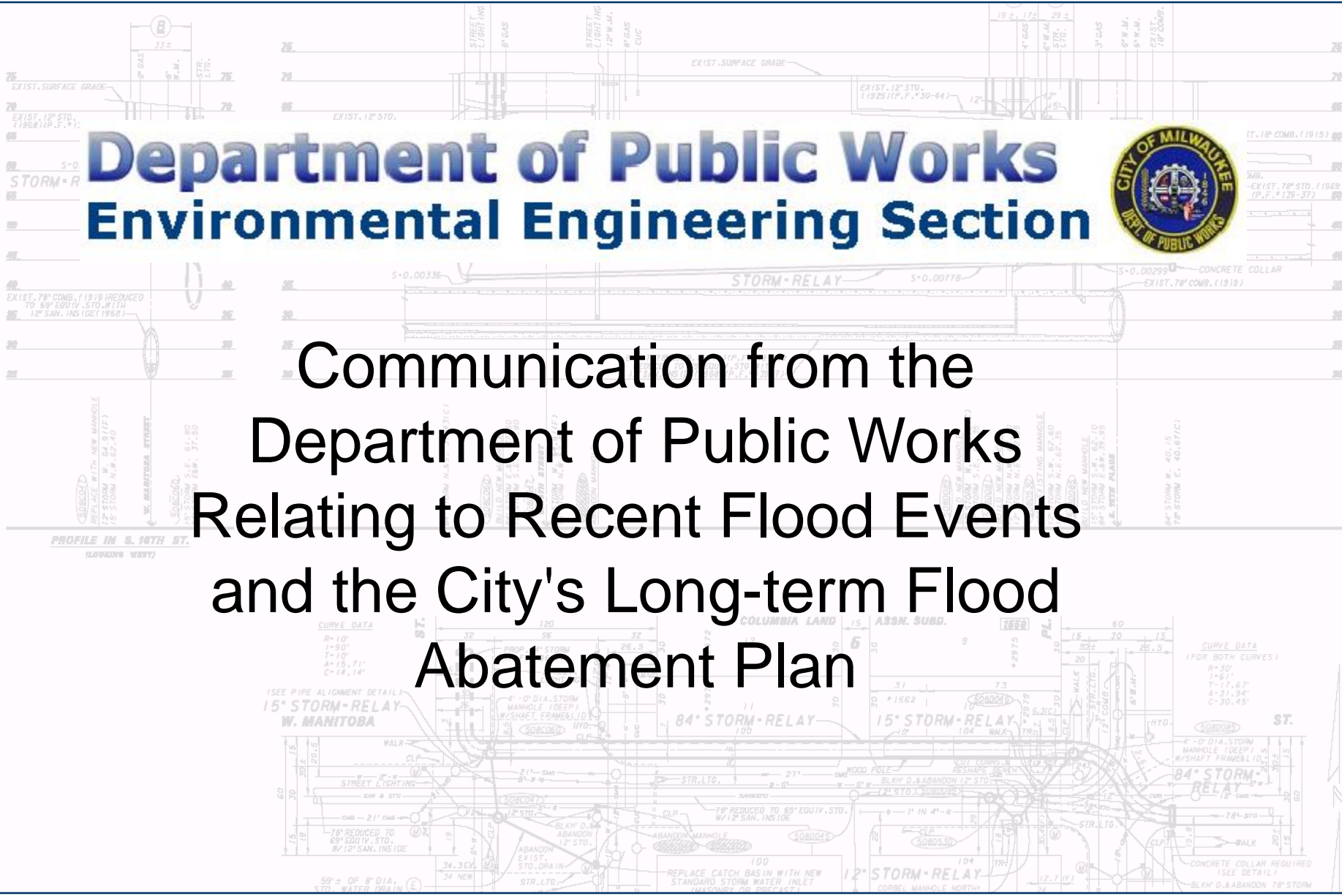


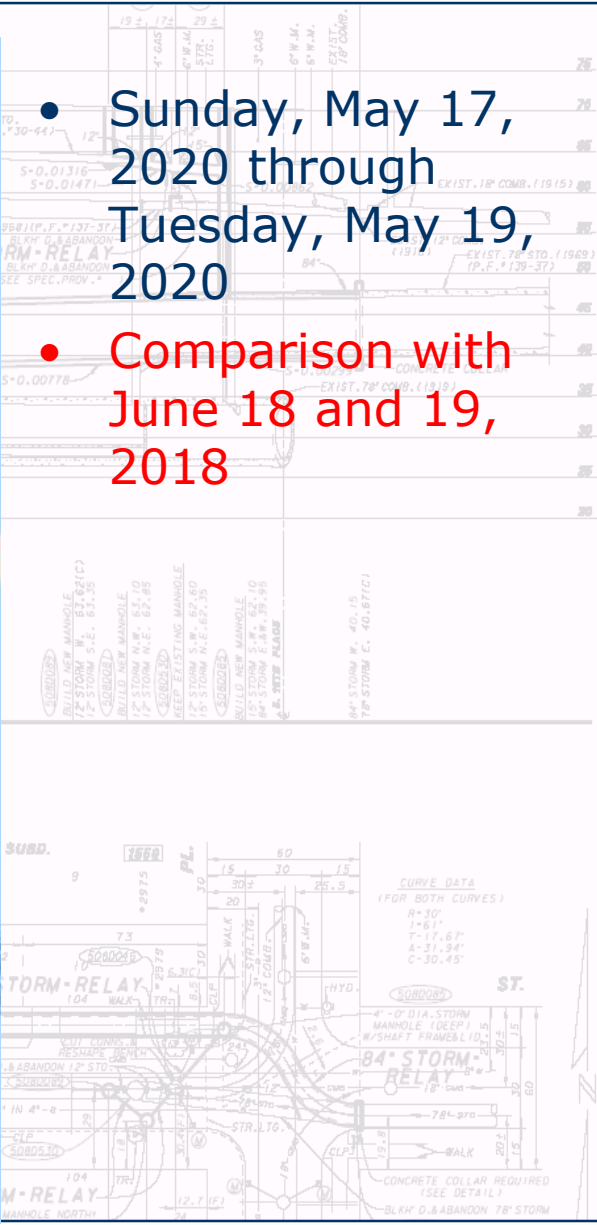
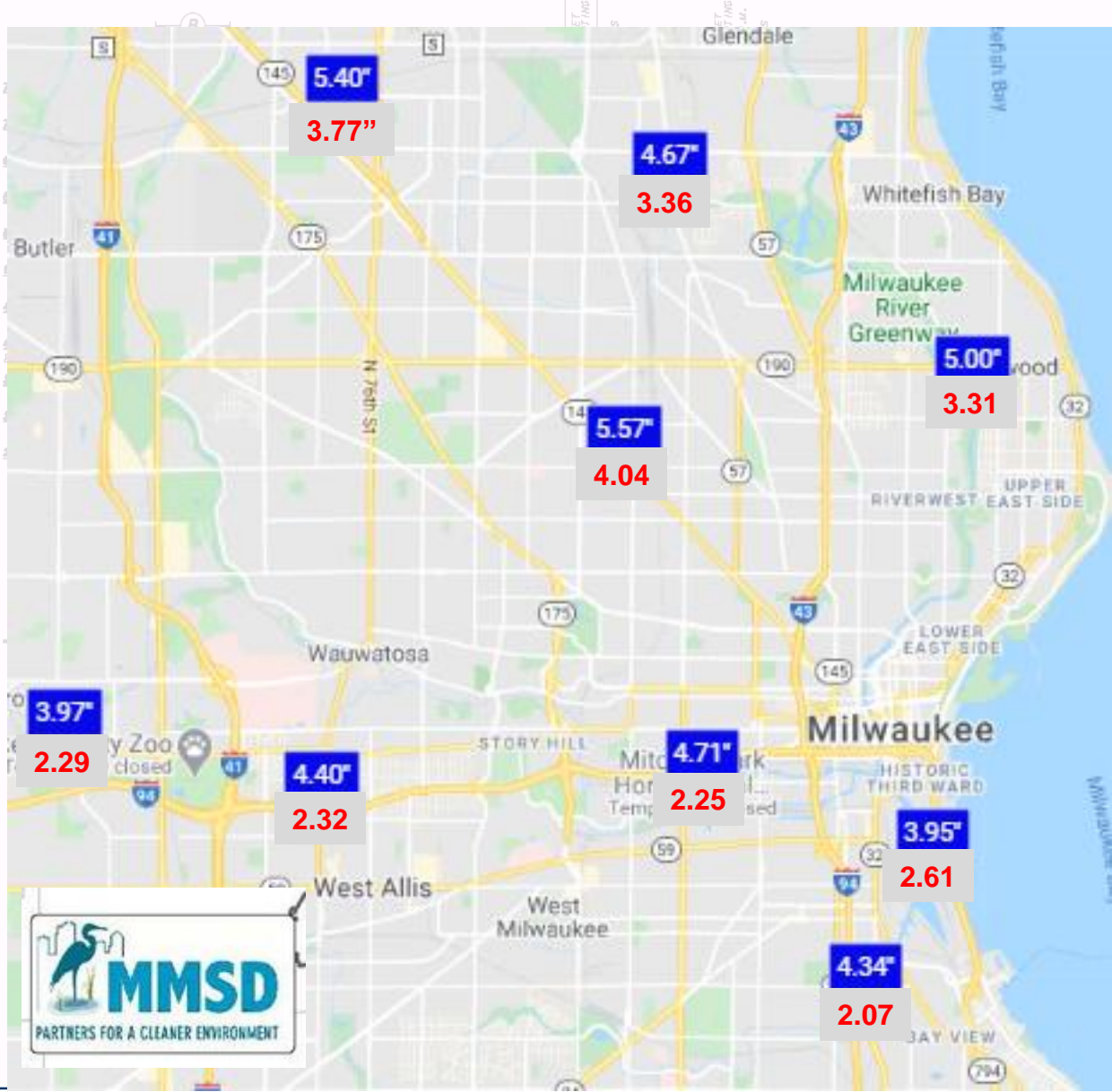
Department of Public Works Environmental Engineering Section



Communication from the
Department of Public Works
Relating to Recent Flood Events
and the City's Long-term Flood
Abatement Plan



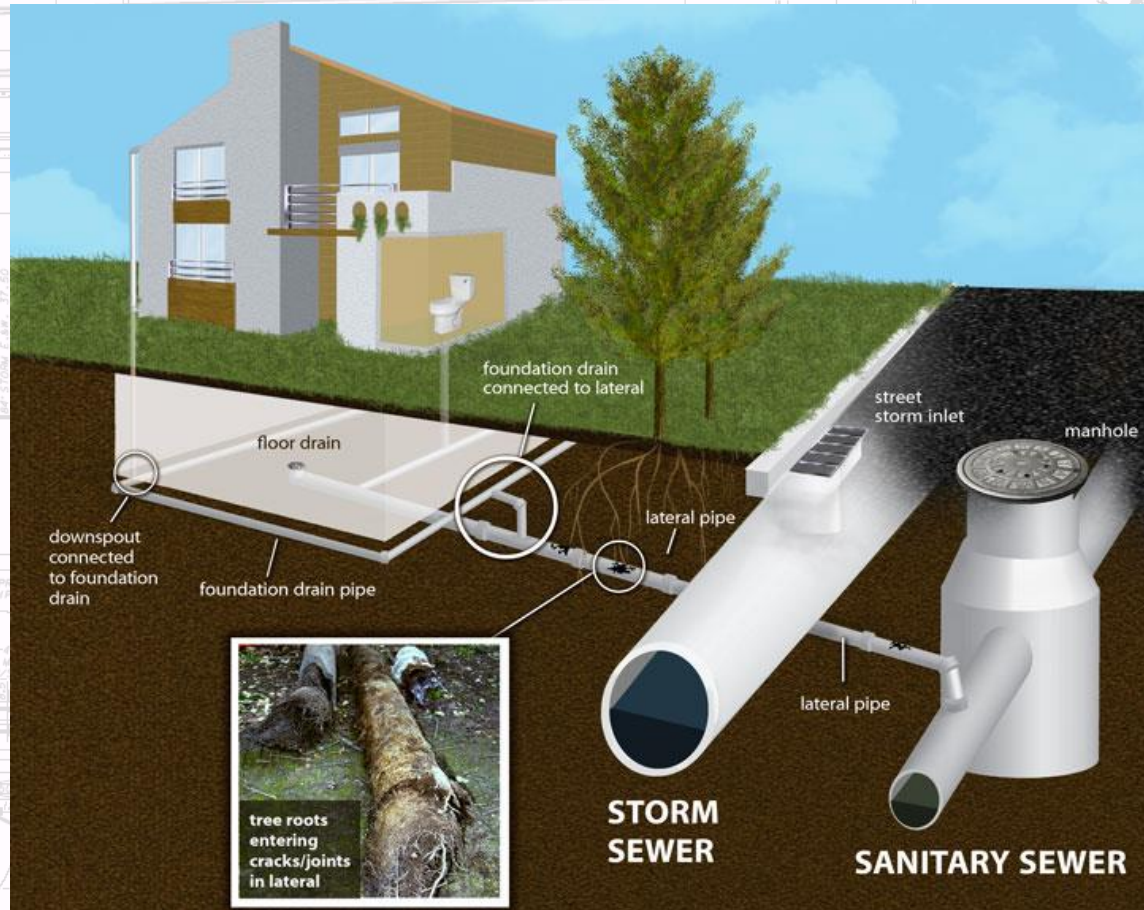
MMSD Rainfall Gauges



- Sunday, May 17, 2020 through Tuesday, May 19, 2020
- Comparison with June 18 and 19, 2018

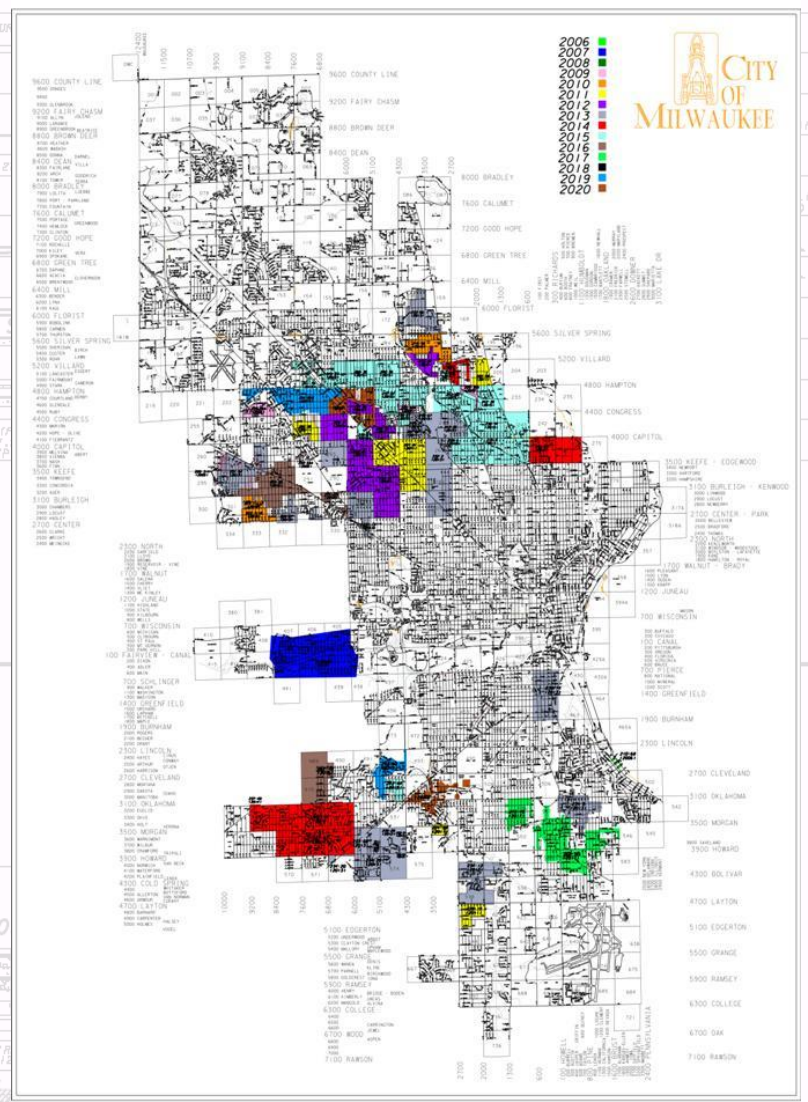
Sources of Excess Water in the Sanitary Sewer System: Infiltration/Inflow (I/I)

- Infiltration is clear rain water entering a sanitary sewer system through defective pipes, pipe joints, lateral connections to sewer mains and manhole walls.
- Inflow is clear water entering the sanitary sewer system through connections such as foundation drains, downspout connections, and catch basin connections.



Sanitary Sewer Lining Projects

- Since 2006 over 45 area sanitary sewer systems have been lined
 - 300 miles of sanitary sewer (roughly 1/3 of all sanitary sewers)
 - \$62,000,000 spent

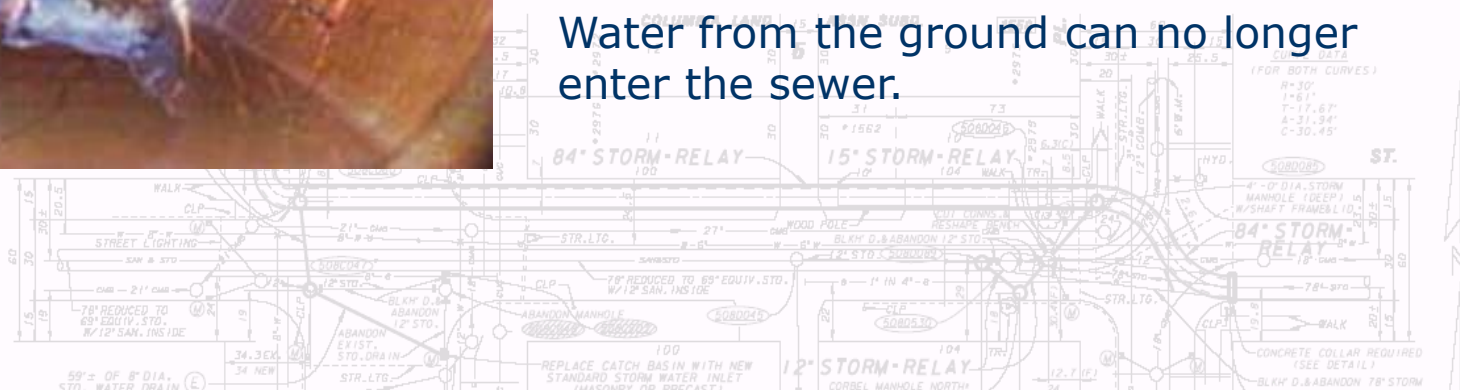


Sanitary Sewer Lining Projects

Before – Sewer is cracked and deteriorated. Water from the ground can enter the sewer freely.

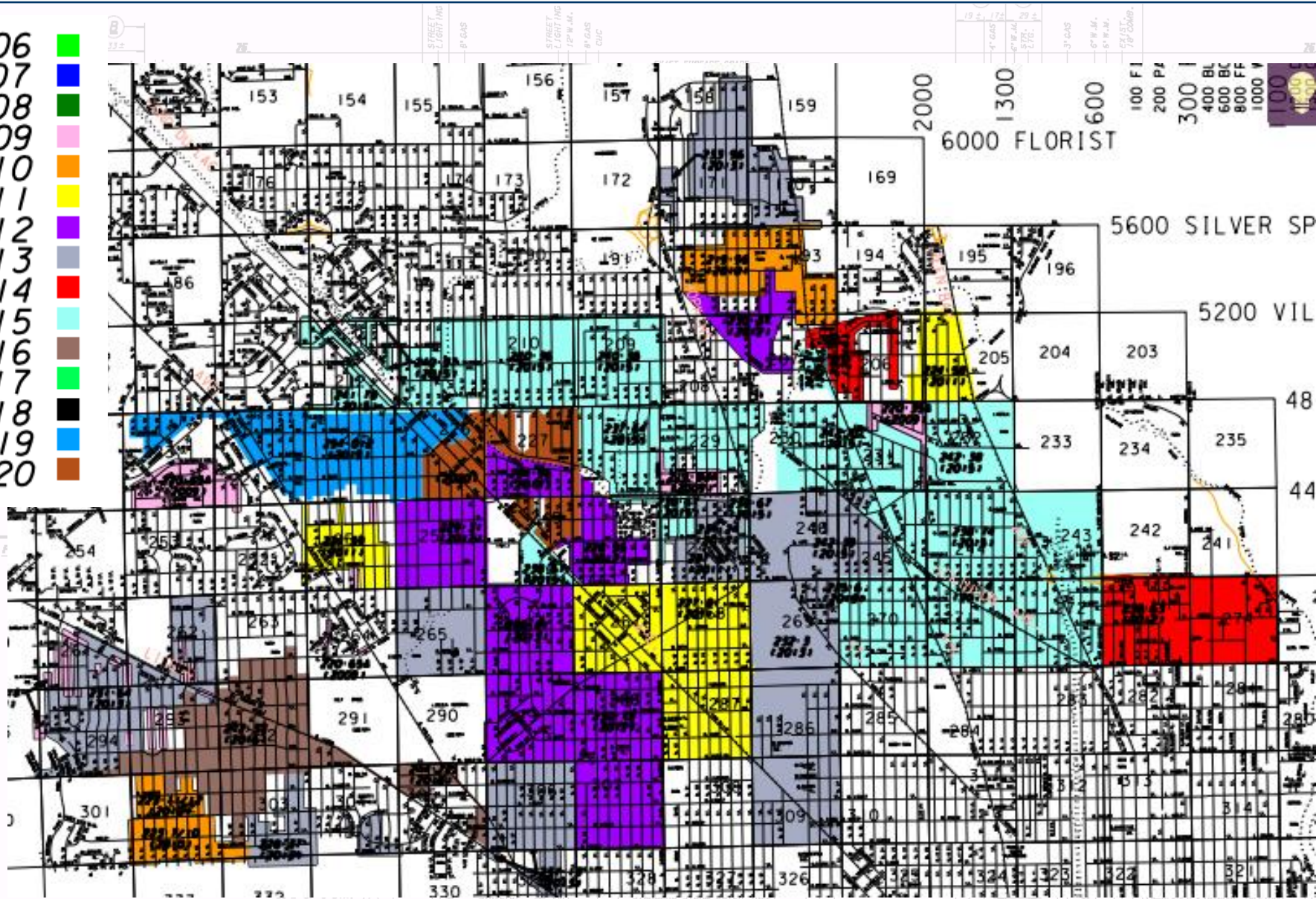


After – Sewer is smooth and sealed. Water from the ground can no longer enter the sewer.



Sanitary Sewer Lining Projects

- 2006 ■
- 2007 ■
- 2008 ■
- 2009 ■
- 2010 ■
- 2011 ■
- 2012 ■
- 2013 ■
- 2014 ■
- 2015 ■
- 2016 ■
- 2017 ■
- 2018 ■
- 2019 ■
- 2020 ■



Private Property I/I Reduction Projects

- CITY-MMSD PARTNERSHIP TO IMPLEMENT I/I REDUCTION

- These projects consists of inspecting and rehabilitating the sanitary building sewers (laterals) homes

- This program is 100% voluntary and homeowners will not incur any costs

- The areas selected have reported numerous basement backups over the last few years

- Project will reduce risk of sanitary sewer overflows and basement backups, as well as reduce City and MMSD maintenance costs

- Four projects have been completed:

- Clemens School Neighborhood, 260 homes, 7th Aldermanic District
- Coopers Park Neighborhood, 280 homes, 5th Aldermanic District
- S. 20th and W. Layton Neighborhood, 350 homes, 13th Aldermanic District
- Fairview Neighborhood, 450 homes, 11th Aldermanic District



Options to Residents to protect their homes from sanitary backups:

- Backwater Valve: Prevents backflow from the sewer outside to the basement.
- Estimated cost between \$2,000 and \$3,000.
- Does not protect building from self-generated wastewater.

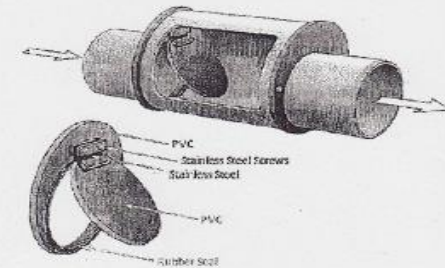
BACKWATER CHECK VALVES 6" TO 18" PIPE SIZE

Larger Check Valves: 6" to 18"

- Unique in-ground, in-line backwater protection for tile drainage systems and a variety of commercial applications.
 - Full flow for drainage
 - Constructed of rugged PVC
 - SDR35 PVC stubs
 - Very low cost
 - Stainless Steel Hinge & Screws
 - Rubber Seal for Tight Sealing
 - Made In USA
 - Adaptable to other pipes with flexible couplers
- [Click Here](#)

Size	PVC, CVP, Etc.
6 inch	
8 inch	
10 inch	
12 inch	
15 inch	
18 inch	

Return to waterworks-supply.com



Downspout Disconnection Program

- Total number of home owner responses to date – 9,965:

- 8,841 homes have been inspected, 1,124 more scheduled
- 951 disconnected by City contractor
- 33 homes will be disconnected by home owner
- 6,753 homes could not be disconnected based on Plumbing Code

