

## COUNTRY CLUB I/I AND INFRASTRUCTURE WORK

### Work activities completed from 2009 to present.

DESCRIPTION	METHOD	QTY
<b>Mainline Sanitary Sewer Rehabilitation</b>	Cured-in-place Lining	~13,000 LF
** a total of 19,800' out of 19,851' has been lined overall		
<b>Sanitary Sewer Laterals</b>	Cured-in-place Lining	90
<b>Manhole Rehabilitation</b>	Lining / Adjustments	45
<b>Sanitary Sewer Replacement</b>		
a. 10" sewer line under Grand Ave.	Replacement	140'
b. Lift Station and forcemain line	Replacement	320'
<b>Private Sector Work</b>		
1. Homes Inspected	Televising / Visual	150
- 55 illegal connections identified		
2. Homes Inspected (results below)	Televising / Visual	83
- 11 cleanout problems		
- 67 footer tiles		
- 33 downspouts need work		
- 5 downspouts tied into sanitary		
- 5 open bottom sanitary pits		
- 33% of services packed with roots		
Could not TV towards house		
- laterals have cracks, broken, offsets		
3. Backflow preventers installed	Excavation	3
4. Most of the laterals lined had cleanouts installed to further investigate private sector I/I.	Excavation & Cured-In-Place	90
5. Worked with golf course to eliminate considerable I/I - disconnected two patio drains, a building drain, and storm sewer drain.	(Estimated expenditure by country club \$40,000)	
6. Worked with Conrad Fisher School to remove 3 roof drains and eliminate considerable I/I - some additional work still possible.	(Estimated expenditure by school \$15,000)	
7. Investigated Grand Ave. Apts. for I/I - nothing found - need to dye flood roof drains.		
8. Held homeowners meeting to explain sources and need to reduce I/I on homeowner side as well as American Water side.		
<b>Other Work</b>		
1. Worked with DuPage County to address storm system.		
2. Purchased 7 flow meters to analyze flows and I/I reduction.		