

Underpass Summary



Level of Protection	Engineer's Estimate of Probable Cost (Millions)
	Alternative 1
10-year	\$2.4
25-year	\$2.9
50-year	\$3.4
100-year	\$4.5

- MWRDGC approval for outlet to Lake Michigan
- IEPA
- Lake Michigan water quality standards

Cherry Street Outlet Study Area

50-year Improvements = \$1.9 million



Cherry Street Outlet Study Area

100-year Improvements = \$2.0 million



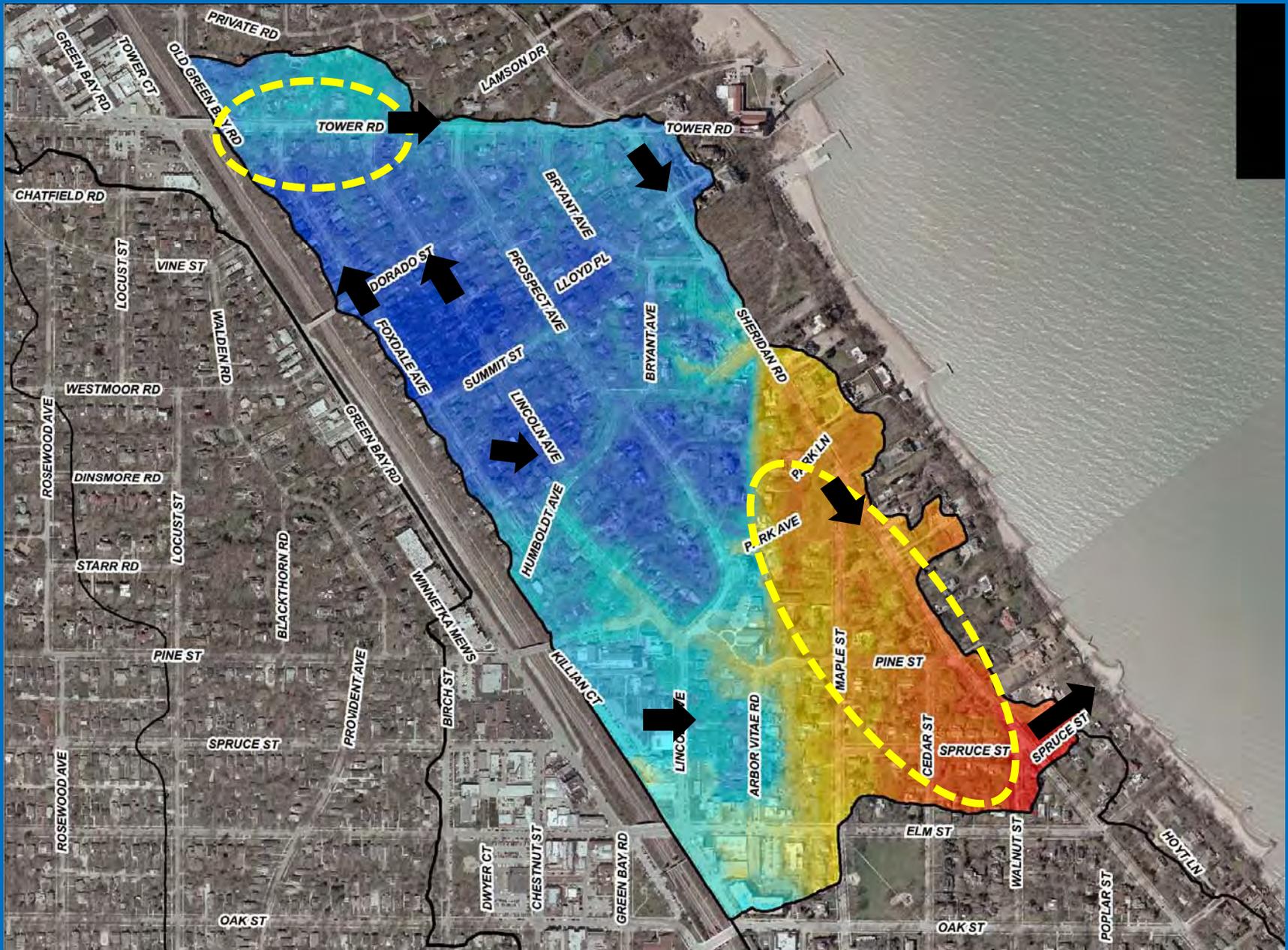
Cherry Street Outlet Benefits



Level of Protection	Engineer's Estimate of Probable Cost (Millions)
10-year	\$0.7
25-year	\$1.8
50-year	\$1.9
100-year	\$2.0

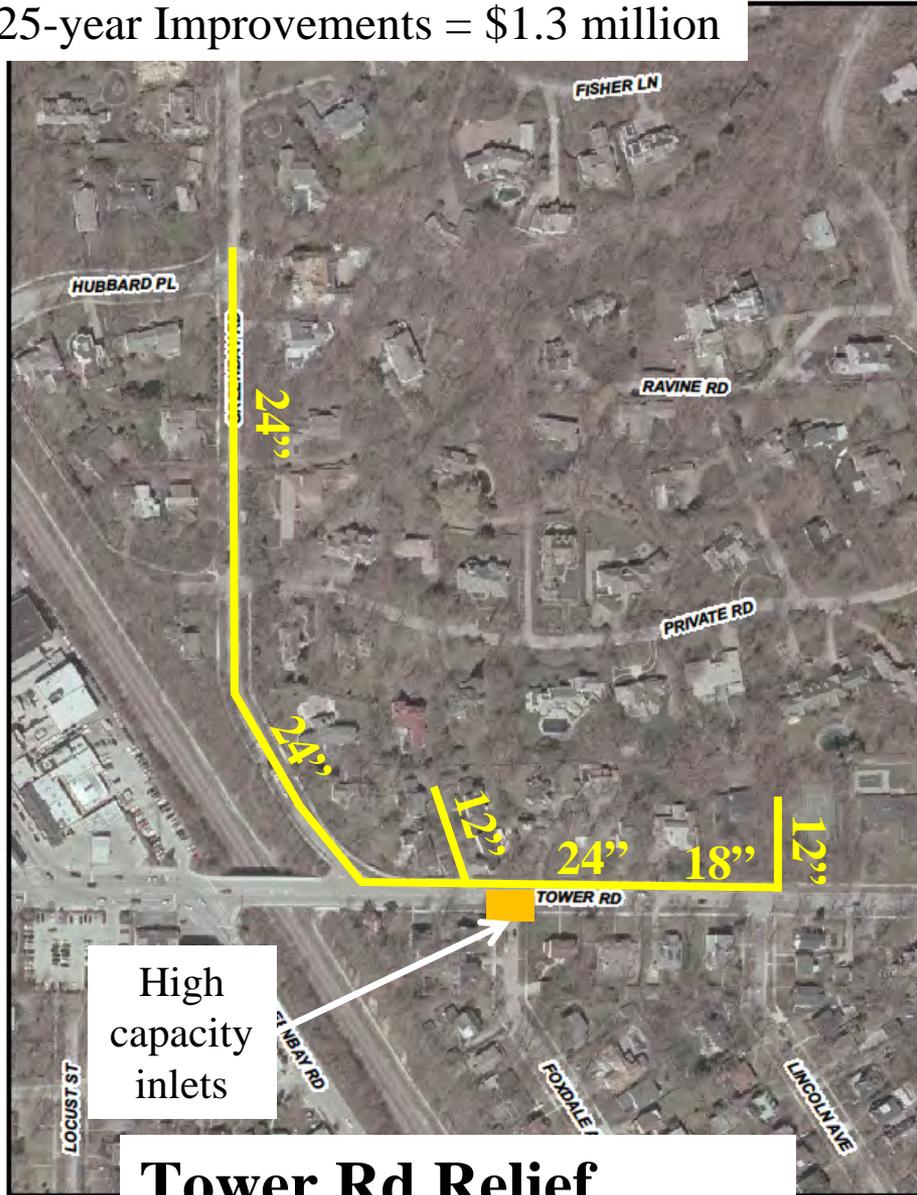
- IDOT
- MWRDGC approval for outlet to Lake Michigan
- IEPA
- Lake Michigan water quality standards

Spruce Street Outlet Study Area



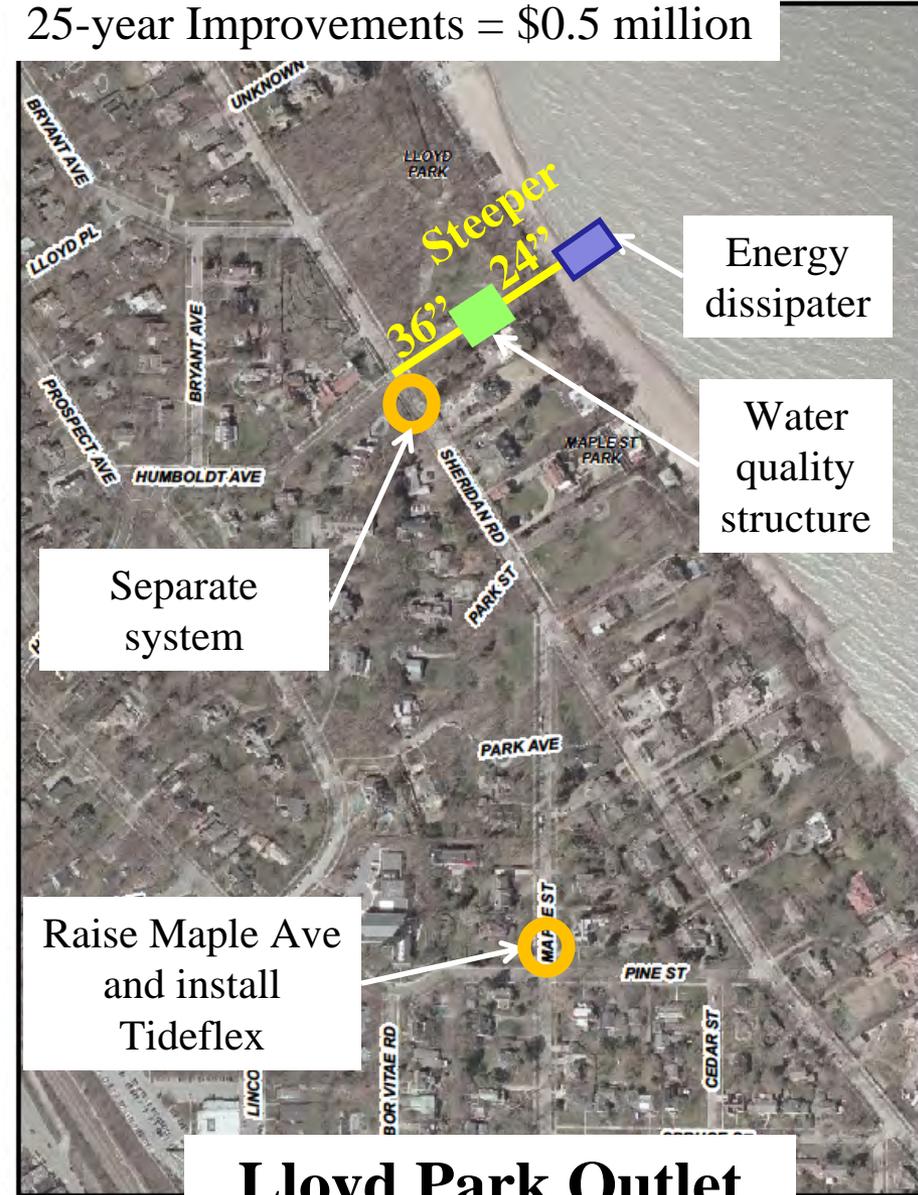
Spruce Street Outlet Study Area

25-year Improvements = \$1.3 million



Tower Rd Relief

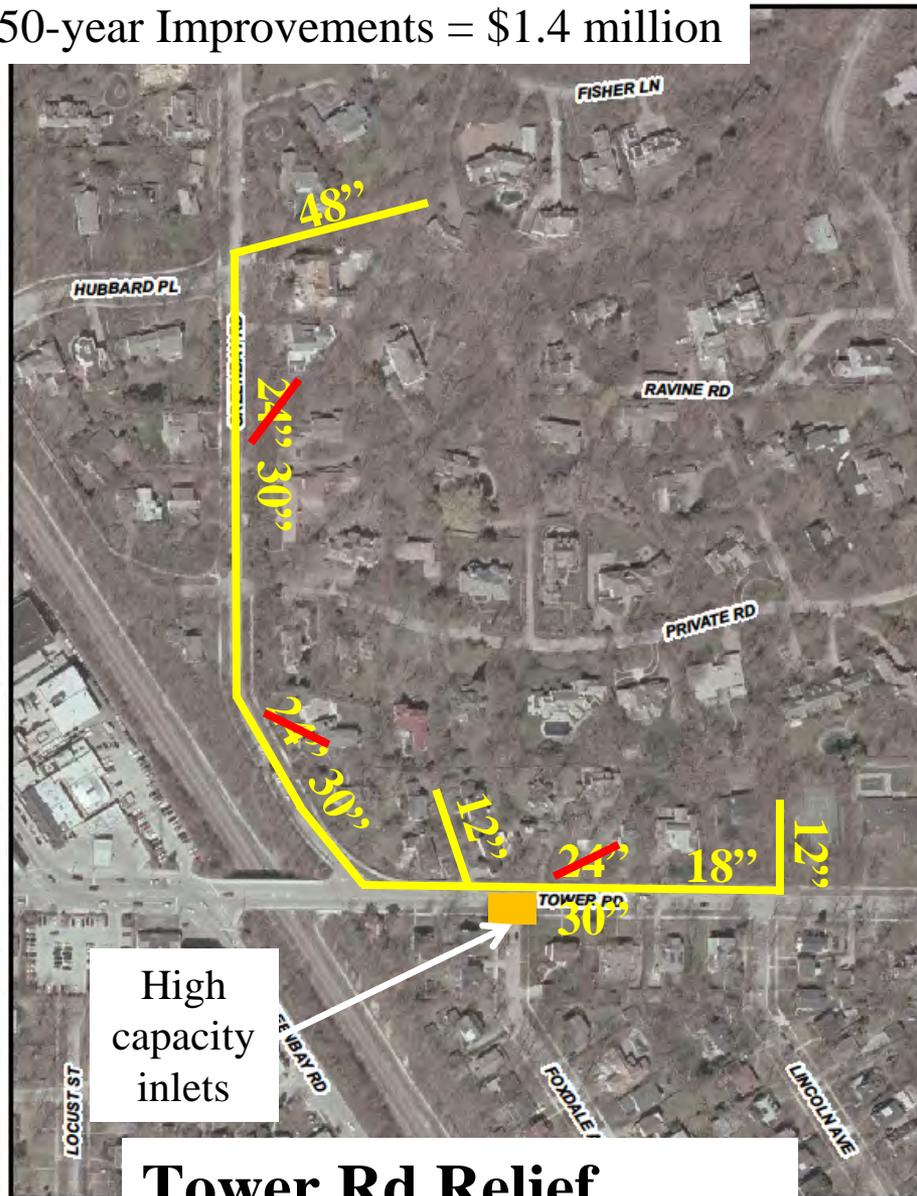
25-year Improvements = \$0.5 million



Lloyd Park Outlet

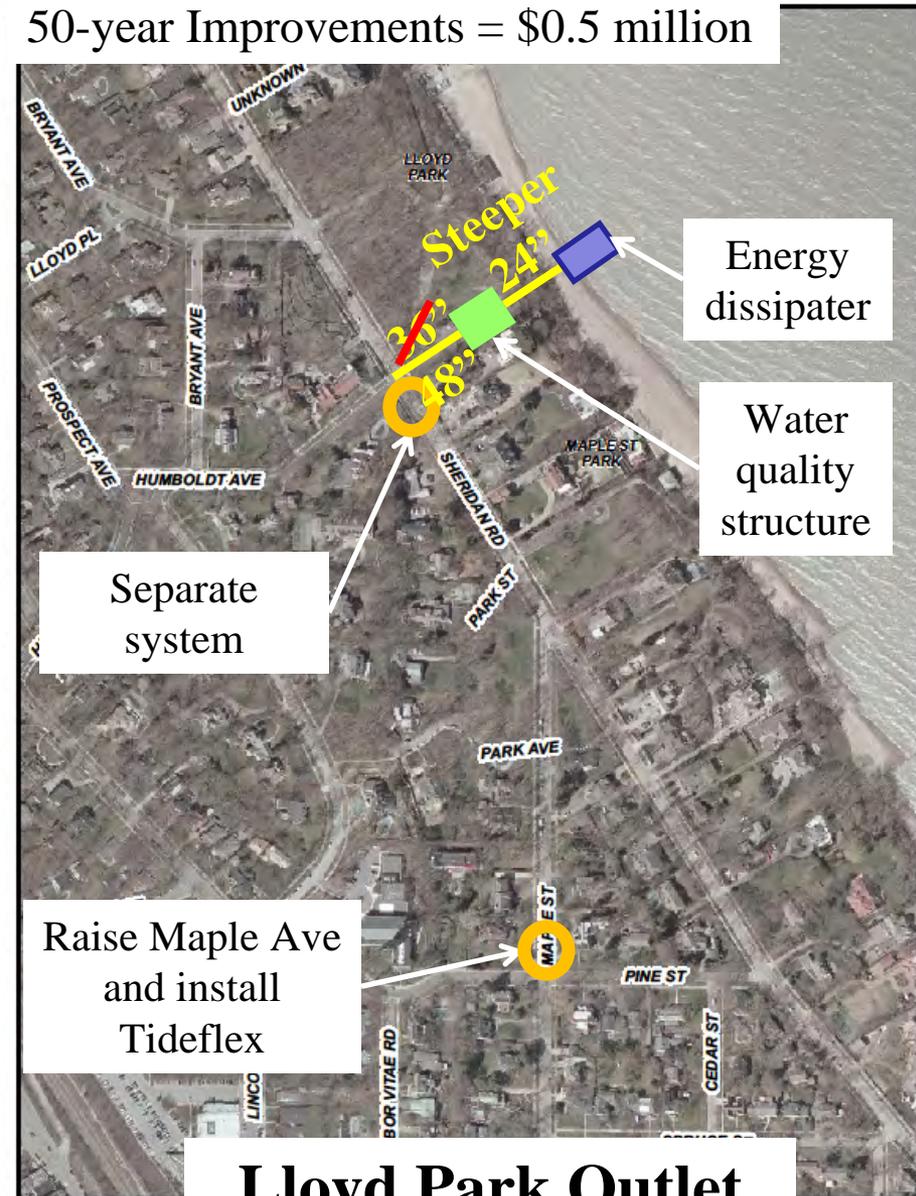
Spruce Street Outlet Study Area

50-year Improvements = \$1.4 million



Tower Rd Relief

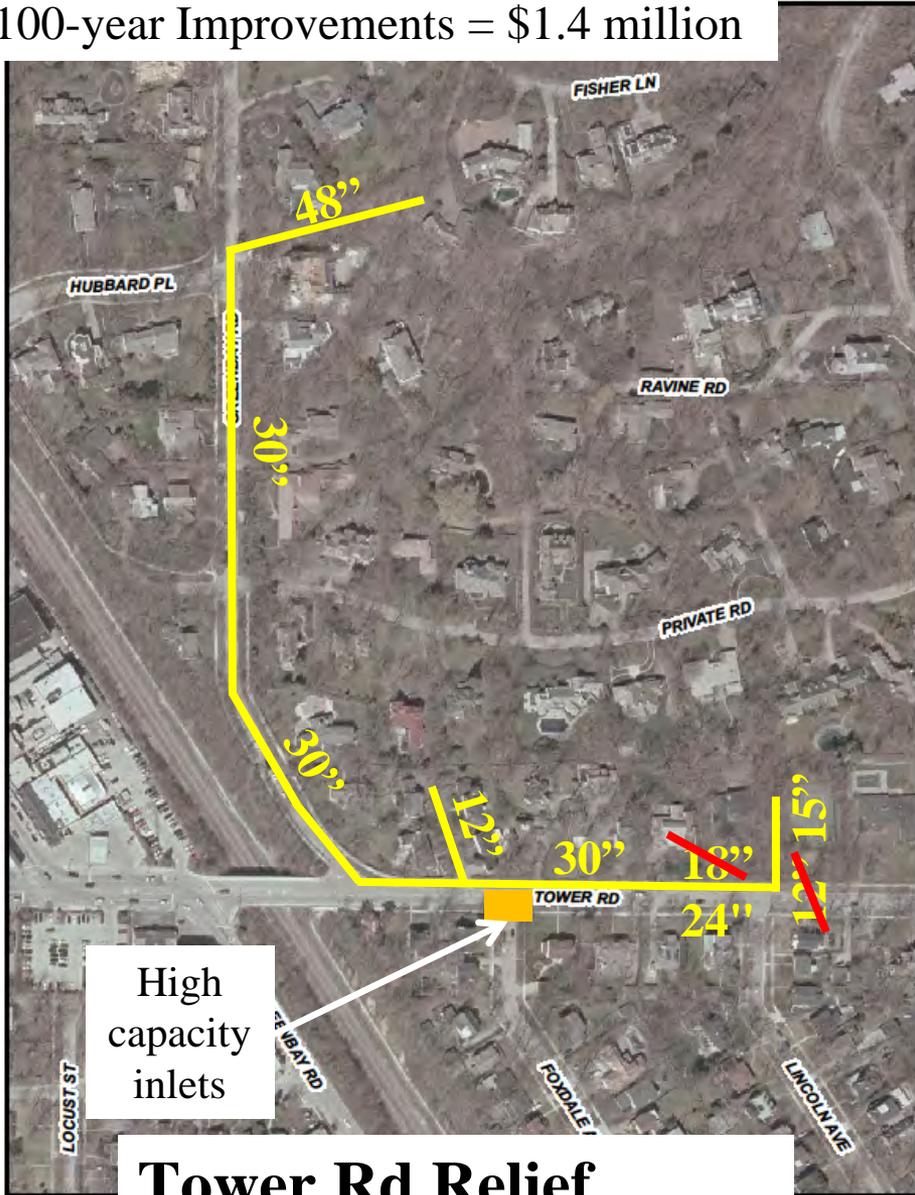
50-year Improvements = \$0.5 million



Lloyd Park Outlet

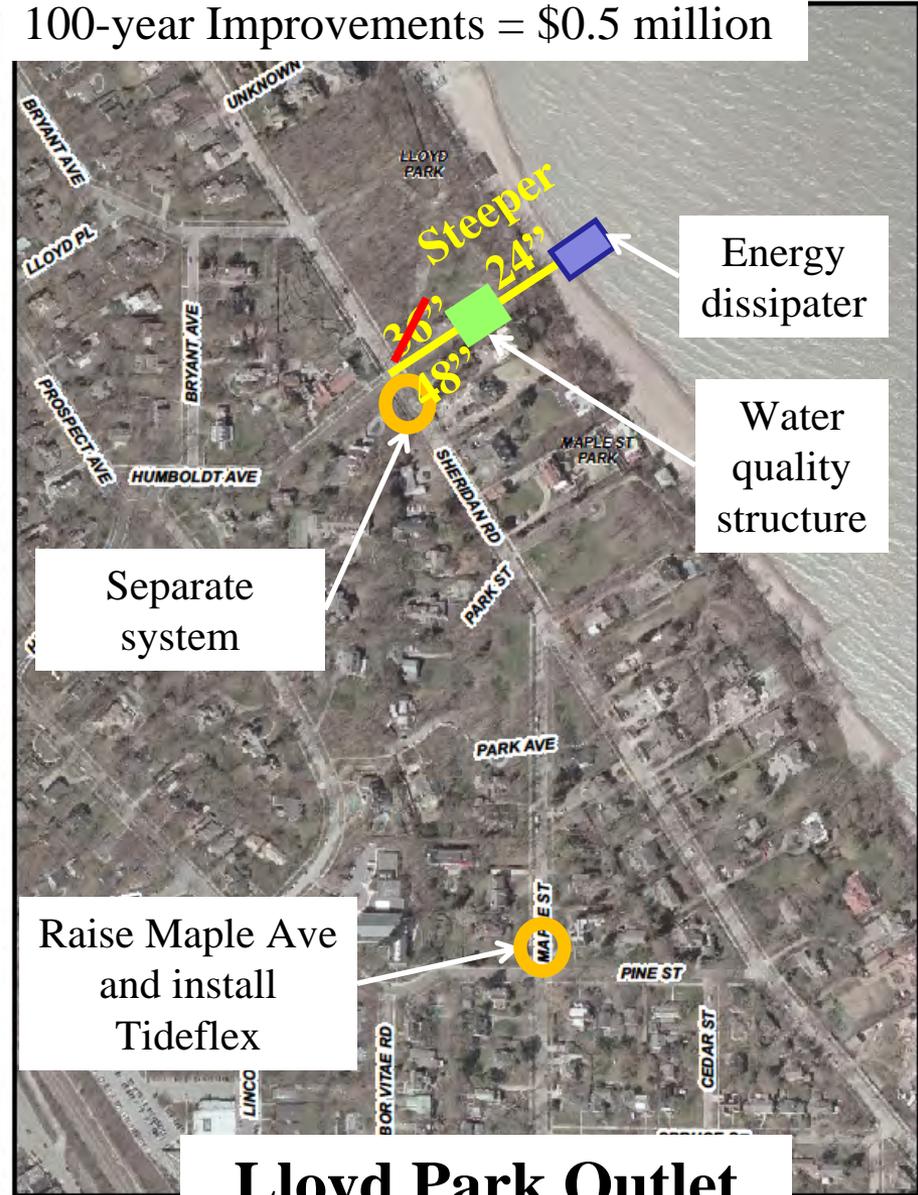
Spruce Street Outlet Study Area

100-year Improvements = \$1.4 million



Tower Rd Relief

100-year Improvements = \$0.5 million



Lloyd Park Outlet

Spruce Street Outlet Benefits



Level of Protection	Engineer's Estimate of Probable Cost (Millions)	
	Tower Relief	Lloyd Park Outlet
10-year	--	\$0.4
25-year	\$1.3	\$0.5
50-year	\$1.4	\$0.5
100-year	\$1.4	\$0.5

- IDOT
- MWRDGC approval for outlet to Lake Michigan
- IEPA
- Lake Michigan water quality standards

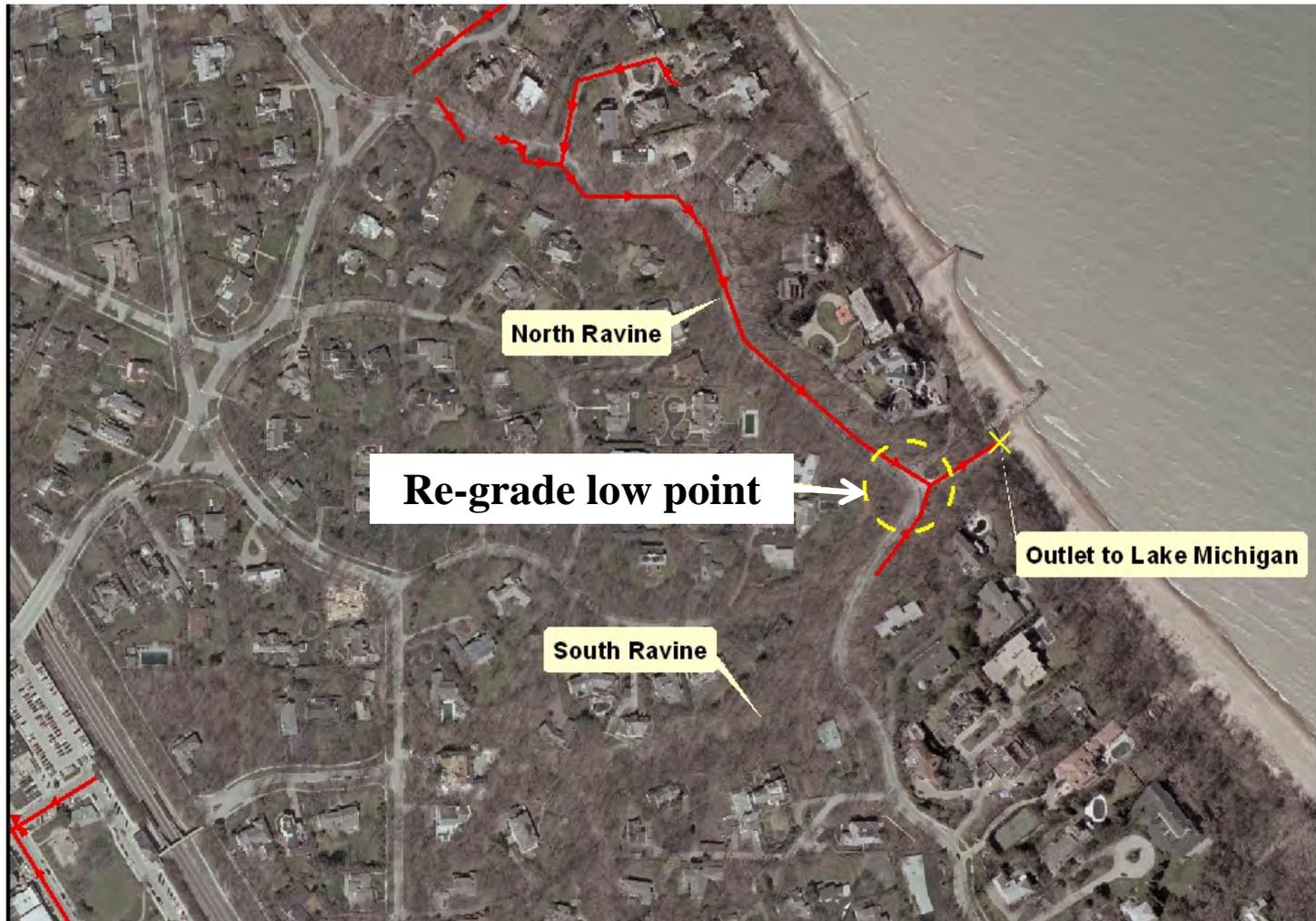
Ravine Study Area



- Low point on Sheridan at Lake Michigan
 - 307 acres
 - 215 acres in Glencoe

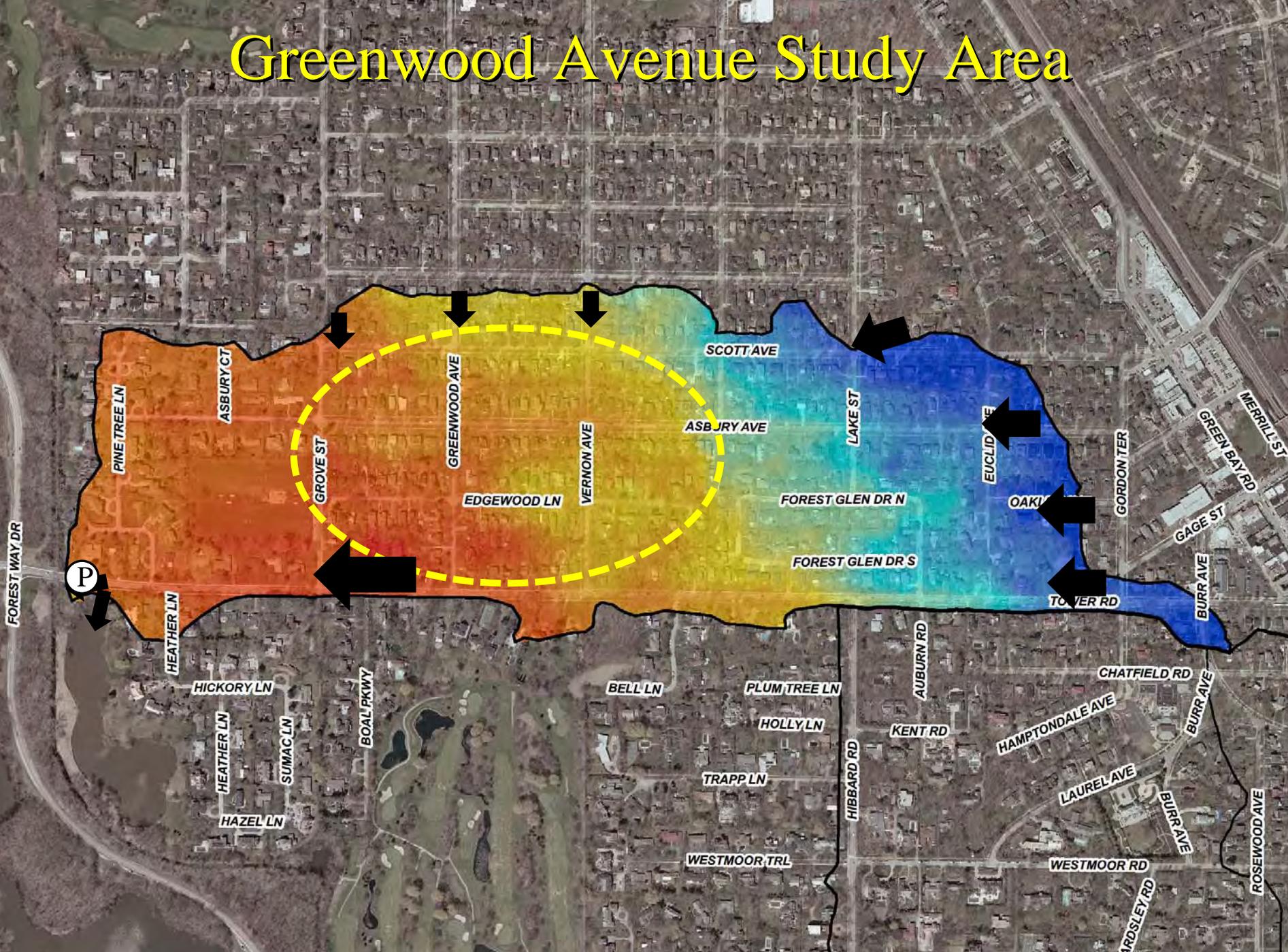
Ravine Study Area

25-, 50-, 100-year Improvements = \$0.5 million



Requesting IDOT to perform the improvements

Greenwood Avenue Study Area



Greenwood Avenue Study Area

- Two Alternatives
 - **Alt 1: Increase pipe sizes for each design storm**
 - Utilize existing storage in basin south of Tower Rd
 - Alt 2: Underground storage at Corwin Park
 - Reduces required pipe sizes
 - No approval from CCFPD required

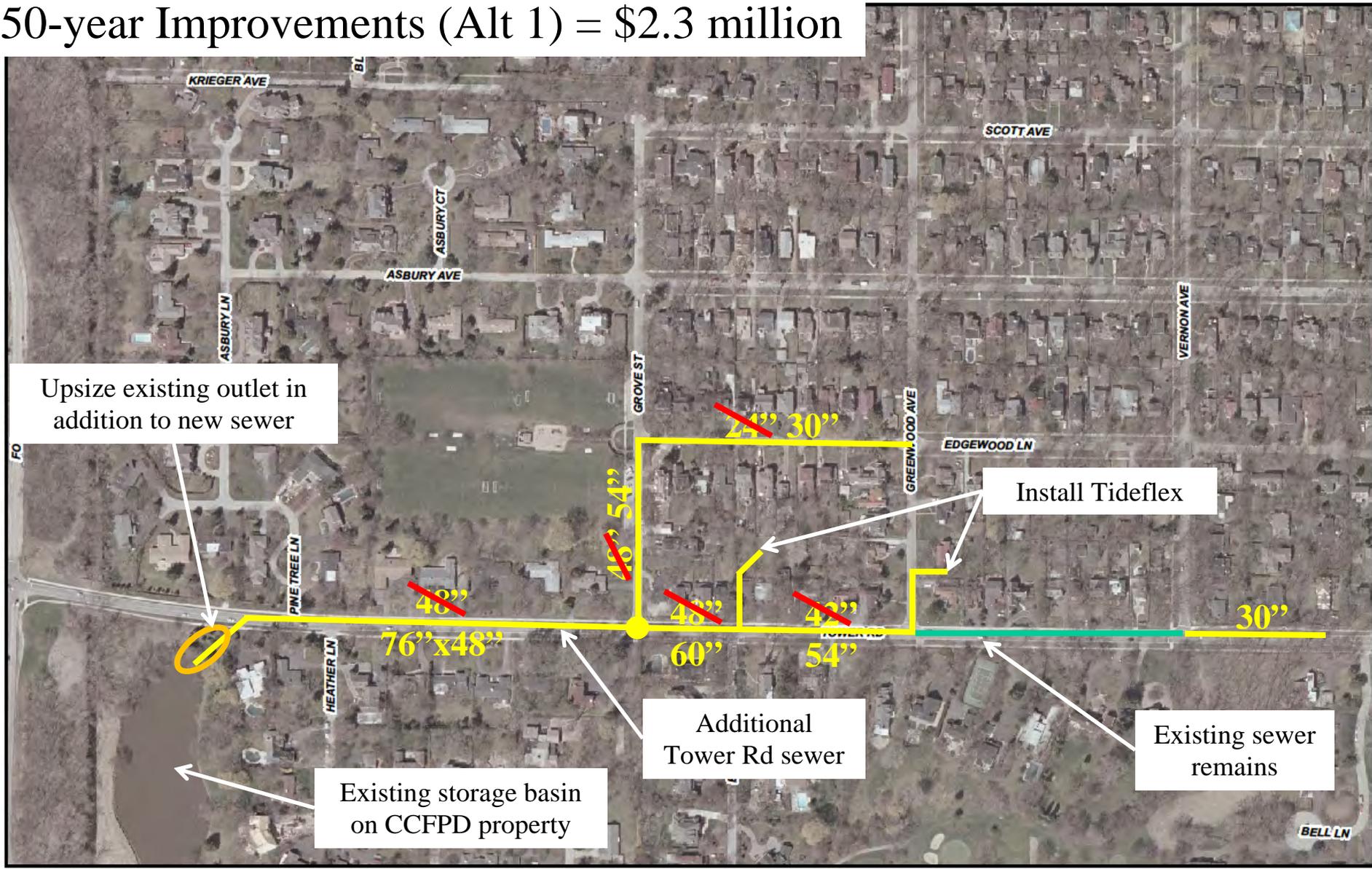
Greenwood Avenue Study Area

25-year Improvements (Alt 1) = \$2.2 million



Greenwood Avenue Study Area

50-year Improvements (Alt 1) = \$2.3 million



Upsize existing outlet in addition to new sewer

Install Tideflex

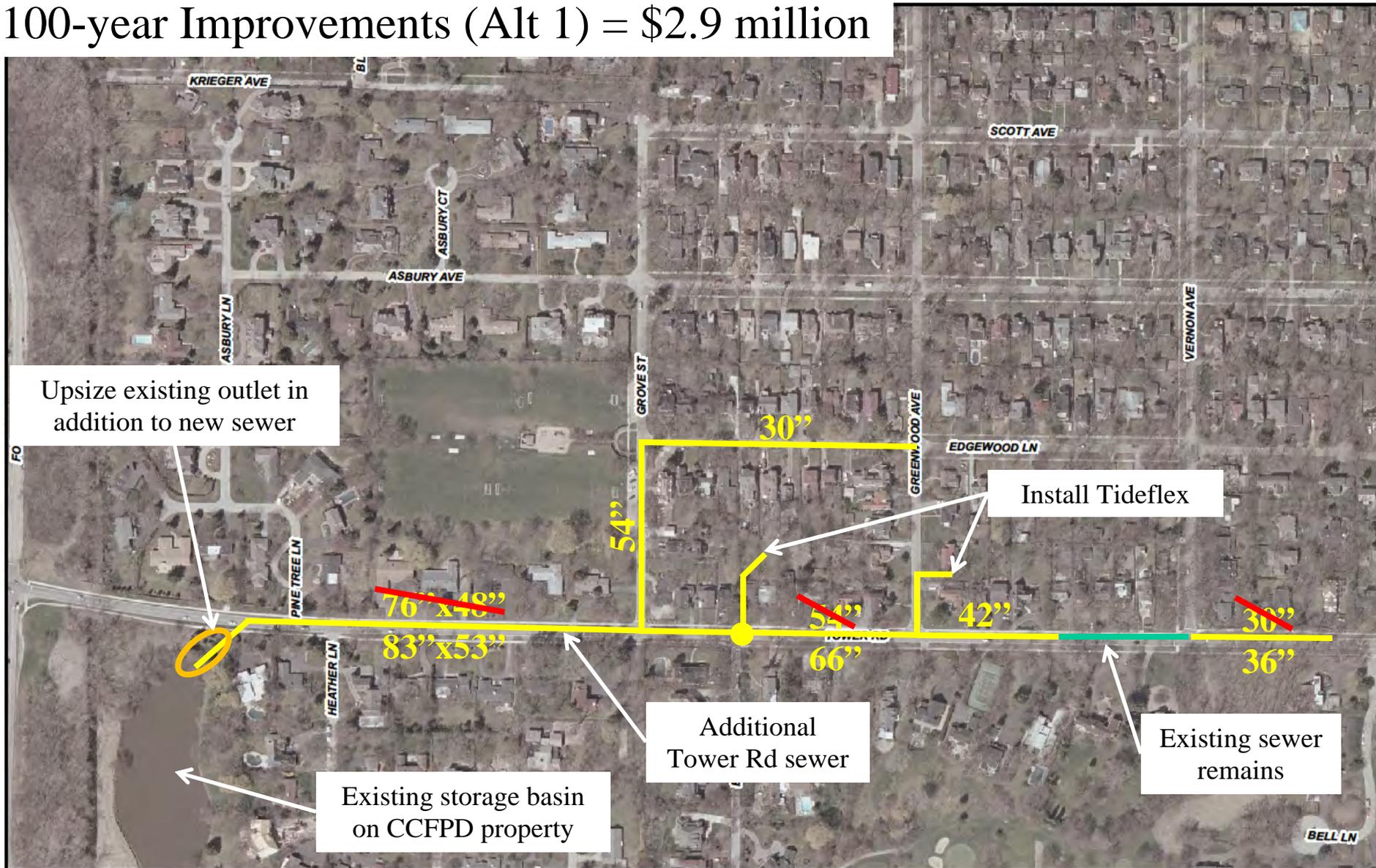
Additional Tower Rd sewer

Existing sewer remains

Existing storage basin on CCFPD property

Greenwood Avenue Study Area

100-year Improvements (Alt 1) = \$2.9 million



Greenwood Avenue Benefits



Level of Protection	Engineer's Estimate of Probable Cost (Millions)
	Alternative 1
10-year	\$0.07
25-year	\$2.2
50-year	\$2.3
100-year	\$2.9

- CCFPD approval for outlet to existing basin
- MWRDGC

Study Area Improvement Summary

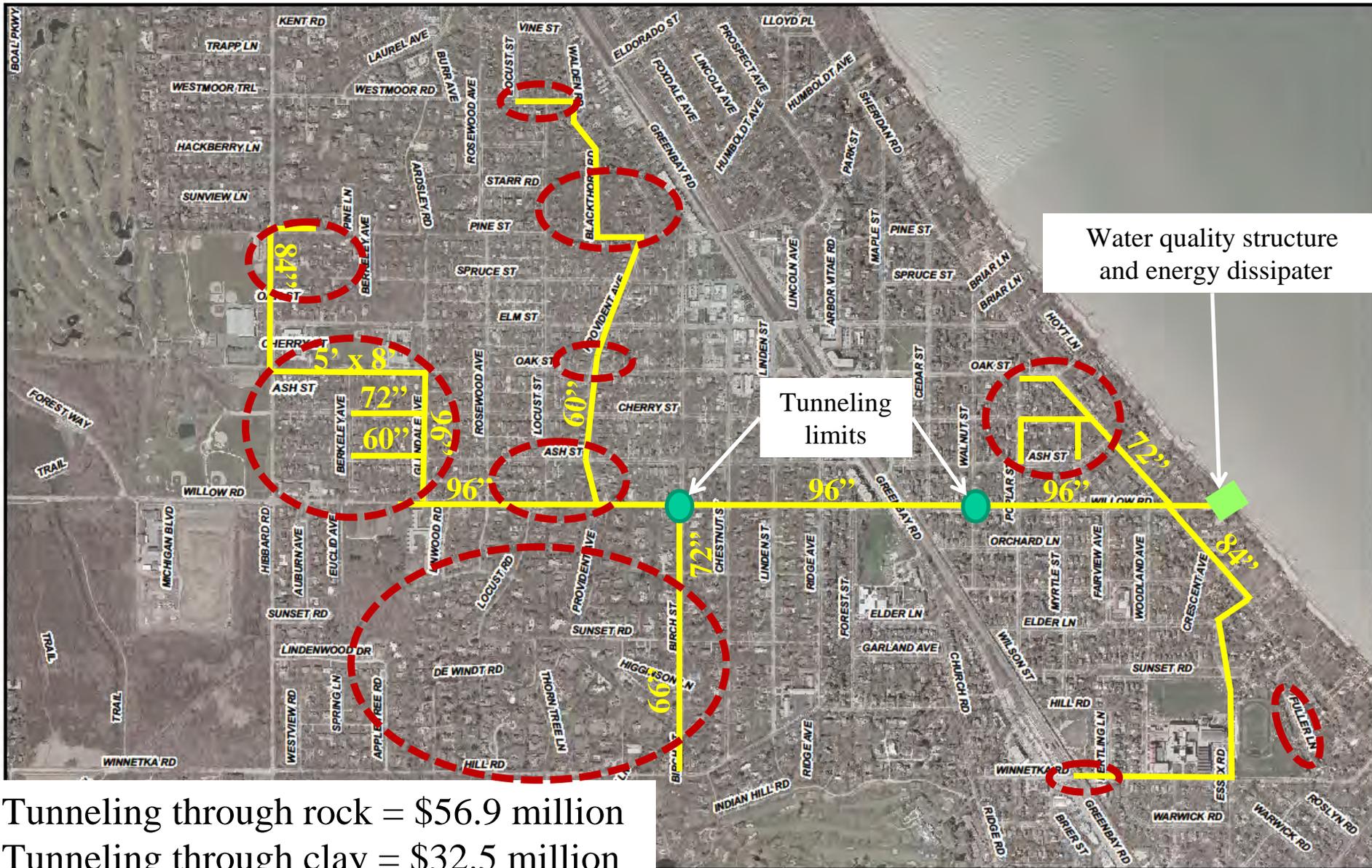
Study Area		Engineer's Estimate of Probable Cost (Millions)			
		10-year	25-year	50-year	100-year
North of Willow		\$6.8	\$13.0	\$14.8	\$17.5
South of Willow		\$3.6	\$9.7	\$12.6	\$17.8
Underpass (sewers)		\$2.4	\$2.9	\$3.4	\$4.4
Cherry Outlet		\$0.7	\$1.8	\$1.9	\$2.0
Spruce Outlet	Lloyd Outlet	\$0.4	\$0.5	\$0.5	\$0.5
	Tower Relief	--	\$1.3	\$1.4	\$1.4
Ravine		\$0.1	\$0.5	\$0.5	\$0.5
Greenwood (sewers)		\$0.07	\$2.2	\$2.3	\$2.9
Total		\$14.1	\$31.9	\$37.4	\$47.0

Combining Projects

- New outlet to Lake Michigan along Willow Road
- Benefits multiple study areas
 - North of Willow Road
 - South of Willow Road
 - Provident Avenue
 - Cherry Street Outlet
 - Underpass
- Combine outlets to Lake Michigan into one
- Requires tunneling
- Significant permitting requirements



Lake Michigan Outlet





Study Area Improvement Summary with New Outlet to Lake Michigan

Study Area		Engineer's Estimate of Probable Cost (Millions)
		100-year Design
North of Willow South of Willow Underpass Cherry Outlet		\$32.5
Spruce Outlet	Lloyd Outlet	\$0.5
	Tower Relief	\$1.4
Ravine		\$0.5
Greenwood		\$2.9
100-year protection with new outlet to Lake Michigan		\$37.8
100-year protection without new outlet to Lake Michigan		\$47.0

