

Project 20
Western Avenue/Oak Avenue
(Wescott Road to Shermer Road)



2400 Block of Oak Avenue



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PROJECT 20
WESTERN AVENUE/OAK AVENUE
(Wescott Road to Shermer Road)

Statement of Conditions:

The existing drainage system is over 50 years old (Northbrook Manor Subdivision, recorded August 1924), and runoff has increased due to properties being redeveloped. The system cannot adequately convey storms of moderate to high intensities. The outlet to WFNBCR is controlled by a flapgate.

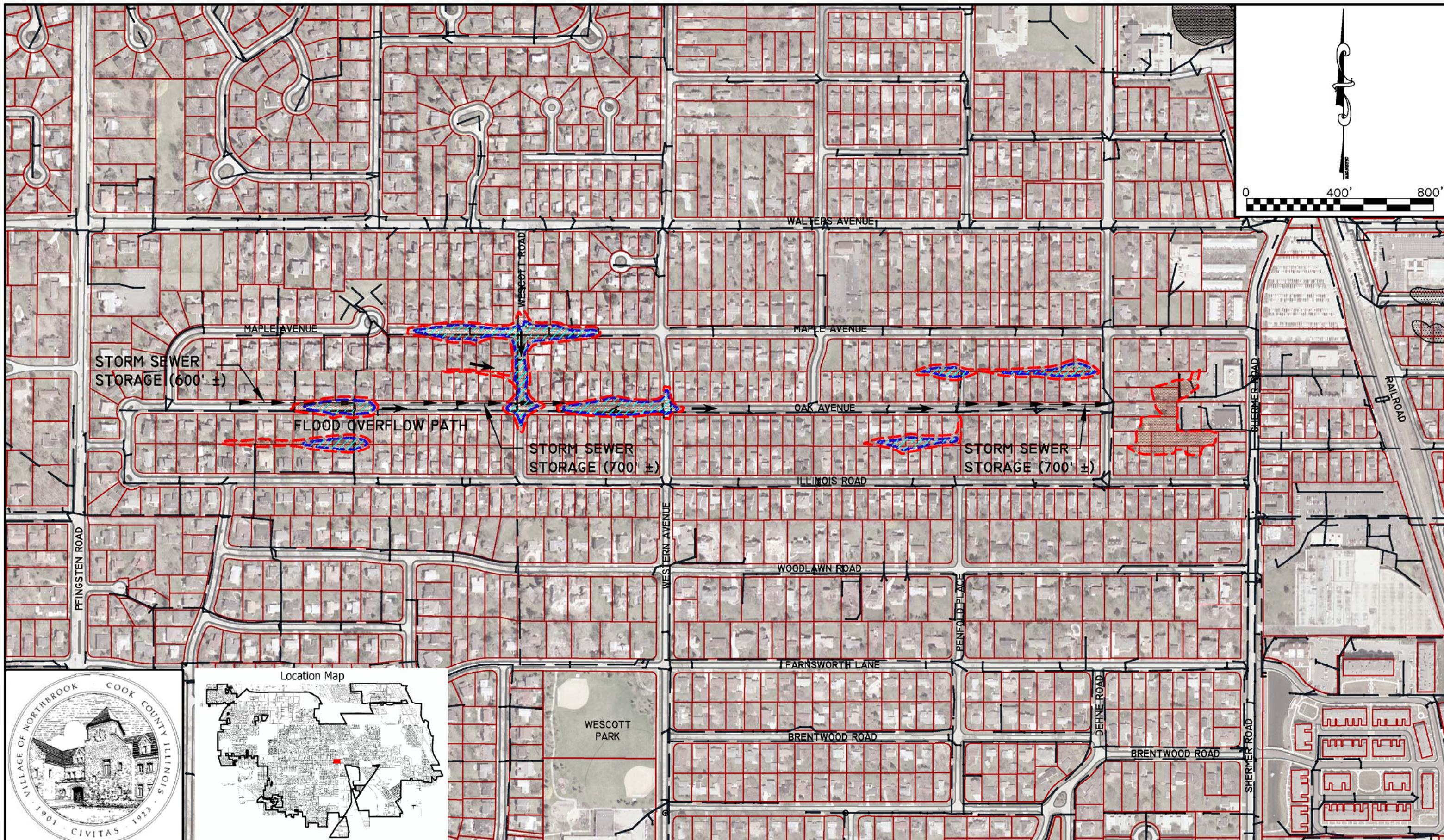
Problem Identification:

Street, front yard and backyard flooding

Recommended Plan:

- Construct sections of oversized storm sewer along Oak Street at strategically designed locations to function as storm water detention facilities.
- Improve drainage collection system by constructing additional Oak Street drainage inlets.
- Mitigate improved outlet impacts by constructing a $4 \pm$ acre-foot sized stormwater detention facility on acquired properties

Estimated Total Cost	Construction Cost	Property Cost	Engineering Cost	B/C Ratio	Optimum Protection
\$631,000	\$548,000	N/A	\$83,000	0.07	10-yr



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