

# Project 3 Techny Drain Phase IV



2700 Block of Canterbury Drive

2100 Block of Greenview Road



2100 Block of  
Greenview Road

### PROJECT 3 TECHNY DRAIN PHASE IV

#### Statement of Conditions:

The existing drainage system, consisting of a combination of ditches and culverts, is over 50 years old (Willow Creek Development CO, recorded 1956; School Trustee Sub, recorded earlier), and runoff has increased due to property redevelopment. The system cannot adequately convey runoff from storms of moderate to high intensities. A segment of the South Fork ditch was enclosed between Greenview Road and Elm Ridge Road in 1973. The floodplain east of Pfingsten Road is a mapped FEMA floodplain and properties are subject to Flood Insurance requirement costs.

The Village adopted the February 2001 Techny Drain Stormwater Management Improvement Plan, consisting of four phases. Phases I & II have been completed. Detailed design plans for Phases III & IV are to be completed 2011. Phase IV predominantly provides flooding benefit to properties along the South Fork of Techny Drain.

#### Problem Identification:

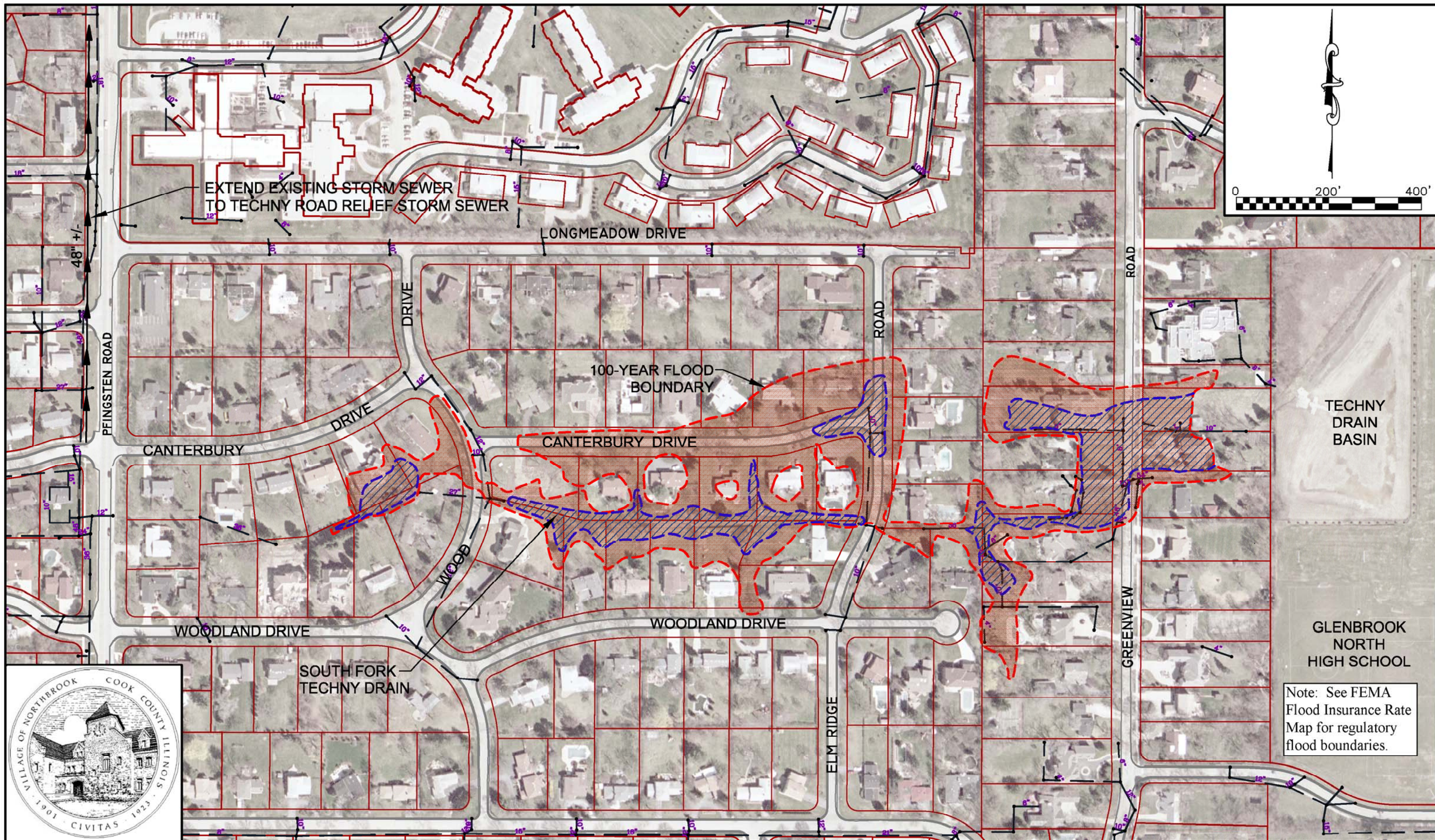
Street, front yard, back yard and structure flooding associated with the South Fork Techny Drain

#### Recommended Plan:

- Reduce flooding by constructing the Phase IV relief storm sewer outlet along Pfingsten Road, and by increasing the Techny Road relief storm sewer diameter to 72" from Fieldwood Drive to Pfingsten Road
- Provide opportunity to reduce Flood Insurance requirements by processing Flood Insurance Rate Map revisions

Estimated Total Cost	Construction Cost	Property Cost	Engineering Cost	B/C Ratio	Optimum Protection
\$798,000	\$694,000	N/A	\$104,000	10.57	100-yr





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