

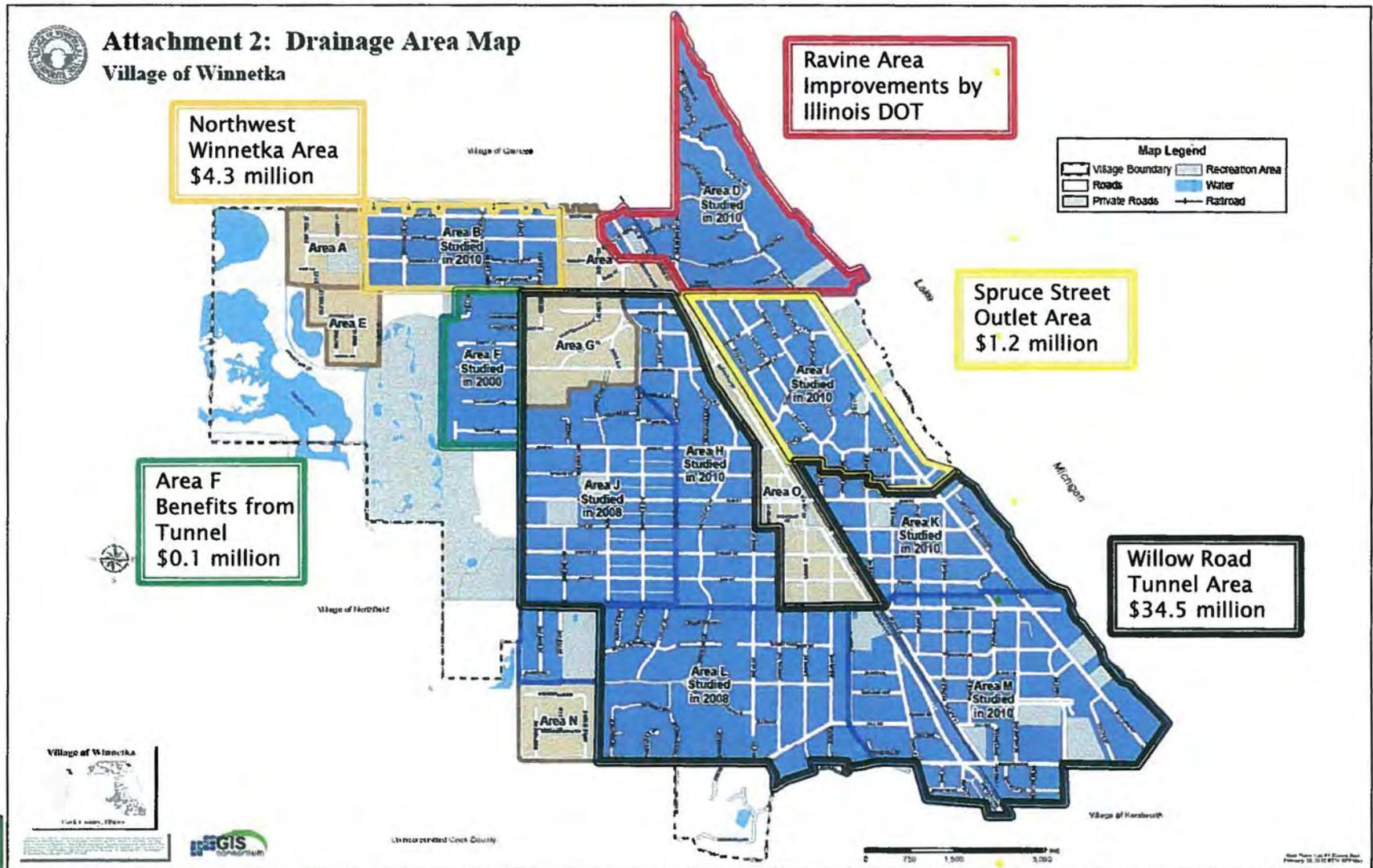
# Northwest Winnetka Stormwater Improvements

Engineering Review and Comment  
July 2, 2013

# Northwest Winnetka

- ▶ Large watershed area improvements
  - Focusing along and north of Tower Road (west of Vernon Avenue), and including the Forest Glen area
- ▶ Engineering contract awarded in October, 2011
  - Engineering is 90% complete
  - Contract contained “stop” at pre-final engineering for public review
- ▶ Total estimated project cost– \$4.3 million
- ▶ Probable Construction Start: Spring 2014

# Village Drainage Areas

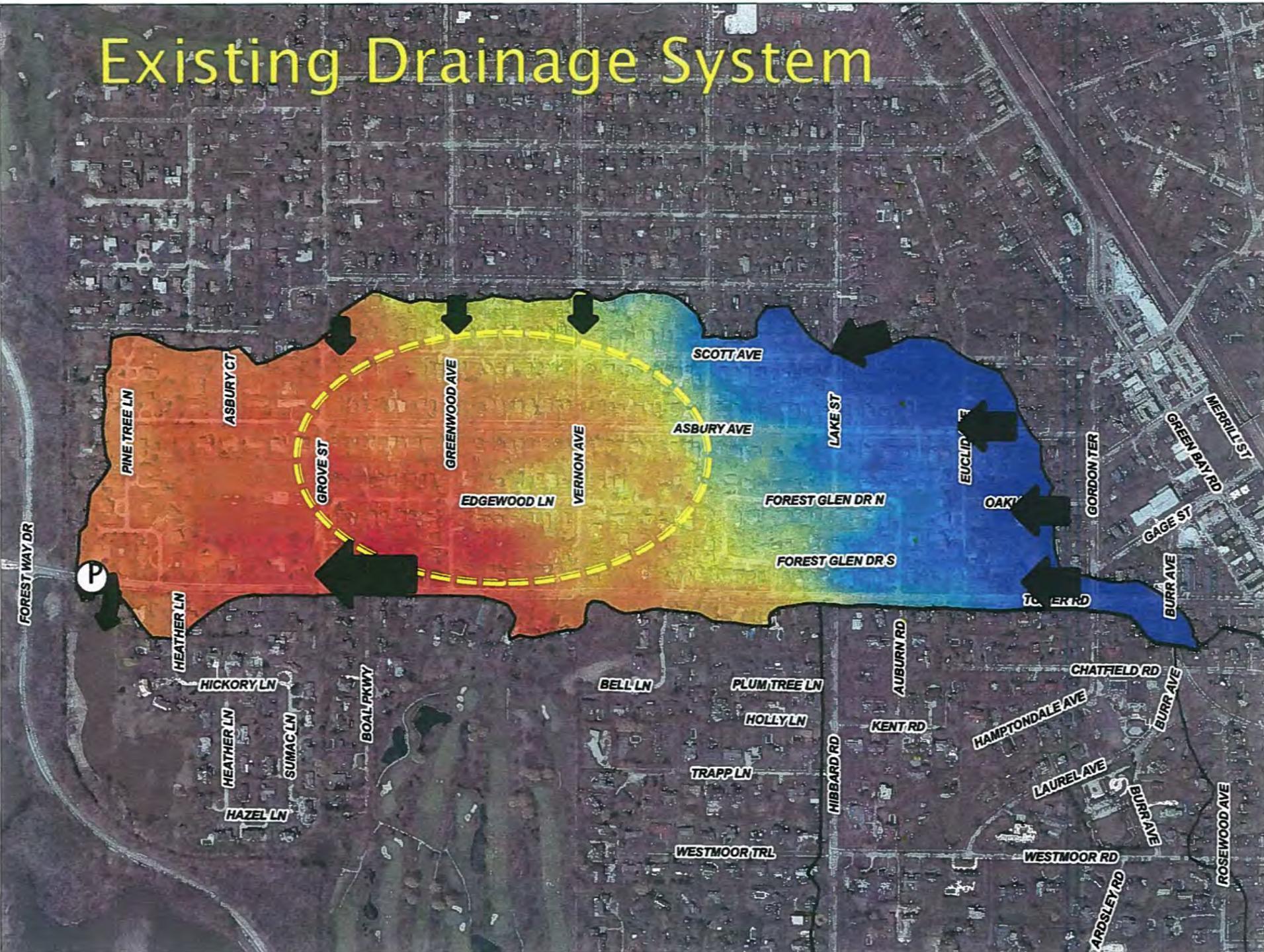


# Stormwater Project Costs

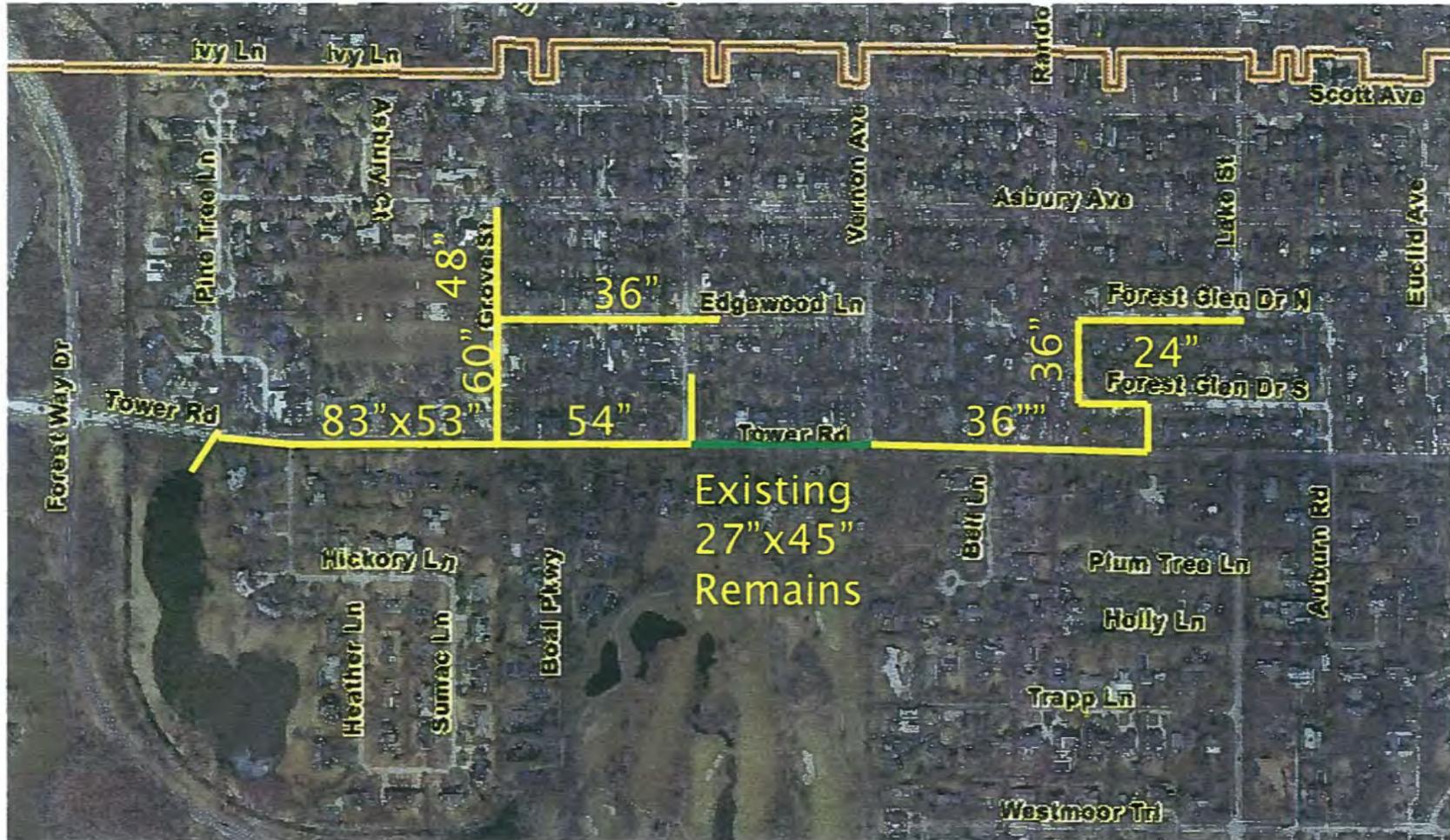
Project Description	Estimate of Probable Cost	Progress To-Date
<i>Northeast Winnetka Improvements (Spruce Street Outlet)</i>		
Tower Road/Foxdale Area	\$1,162,853	Construction tentatively scheduled- fall 2013
Lloyd Park Outlet	\$398,786	Construction tentatively scheduled- fall 2013
<i>Northwest Winnetka Improvements</i>		
Tower Road/Greenwood Area	\$3,581,924	Proceeding with final engineering; plans ready for public comment by end of June, 2013
Forest Glen Extension	\$685,000	
Winnetka Avenue Pump Station	\$750,000	Construction plans approved by Forest Preserve Board; work can begin in 2013
Stormwater Master Plan	\$101,220	Draft Master Plan expected by July 2013
Utility Feasibility Study	\$72,100	Final report to Council: May 14, 2013
<i>Willow Road Stormwater Tunnel</i>		
North/South Willow & Provident	\$27,969,048	Draft Engineering RFQ to be complete July 2013, engineering procurement complete by December 2013
Cherry Street Outlet Area	\$2,000,000	
Winnetka Underpass Area	\$4,400,000	
Area F (west of Hibbard Road)	***	
<b>TOTAL</b>	<b>\$41,120,931</b>	

\*\*\*Est. \$100,000, but not finalized

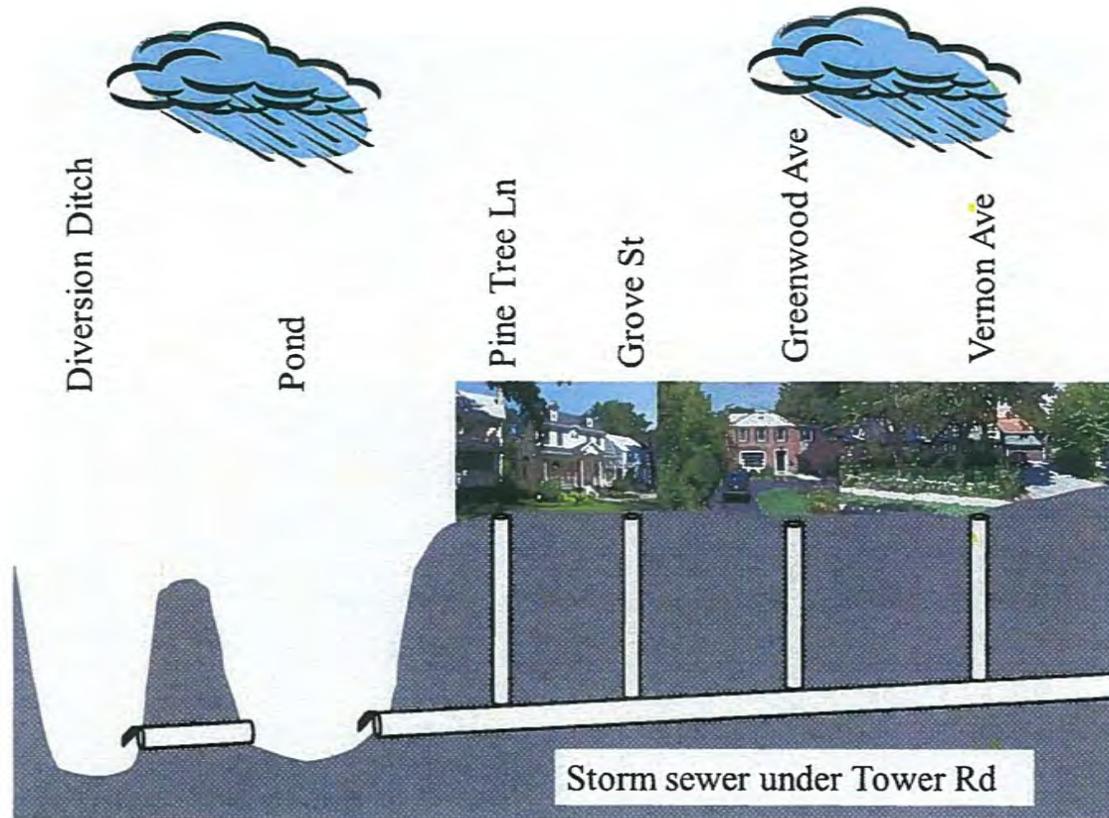
# Existing Drainage System



# Proposed Improvements



# Hydraulic Principles

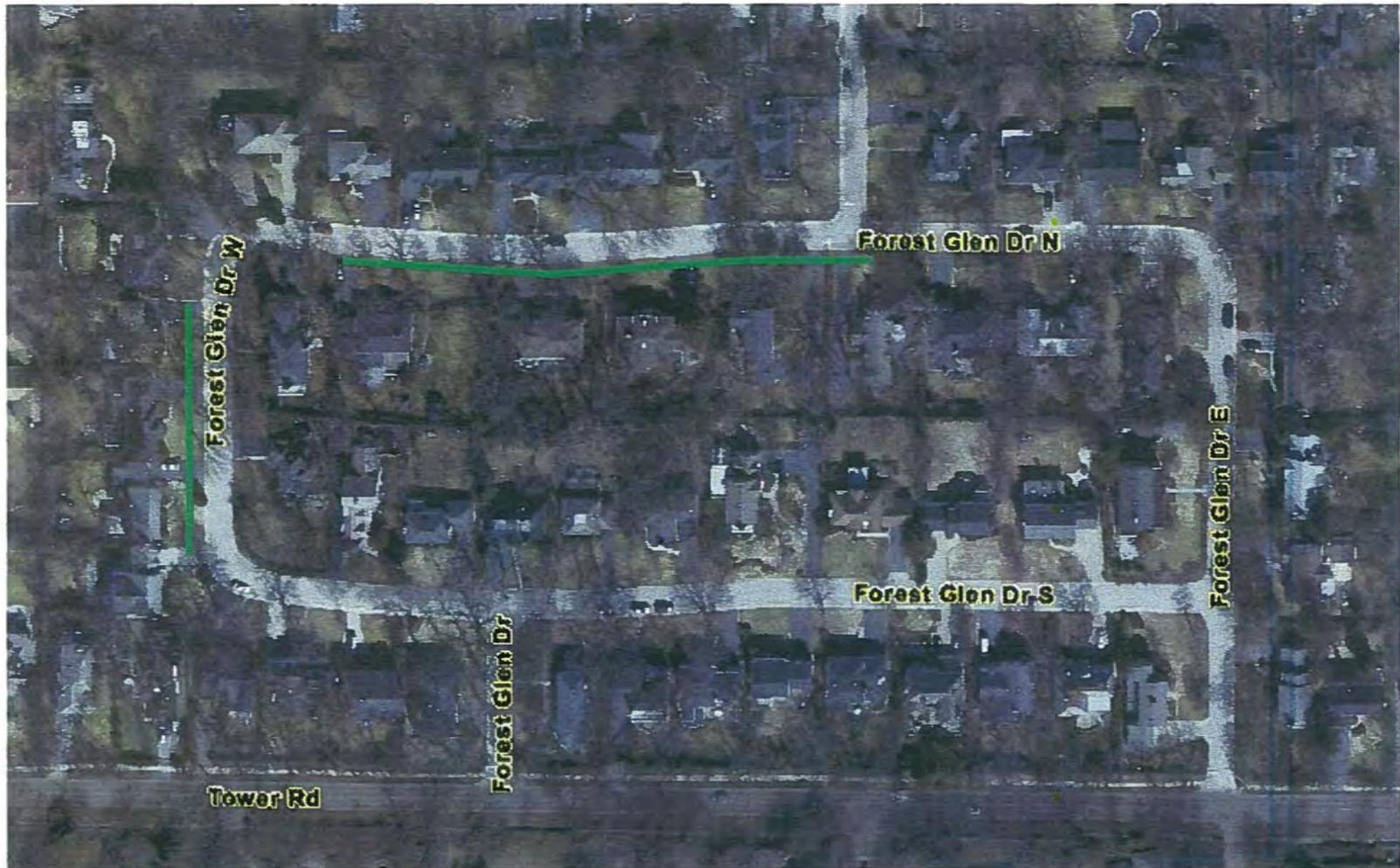


# Details – Landscaping Berms

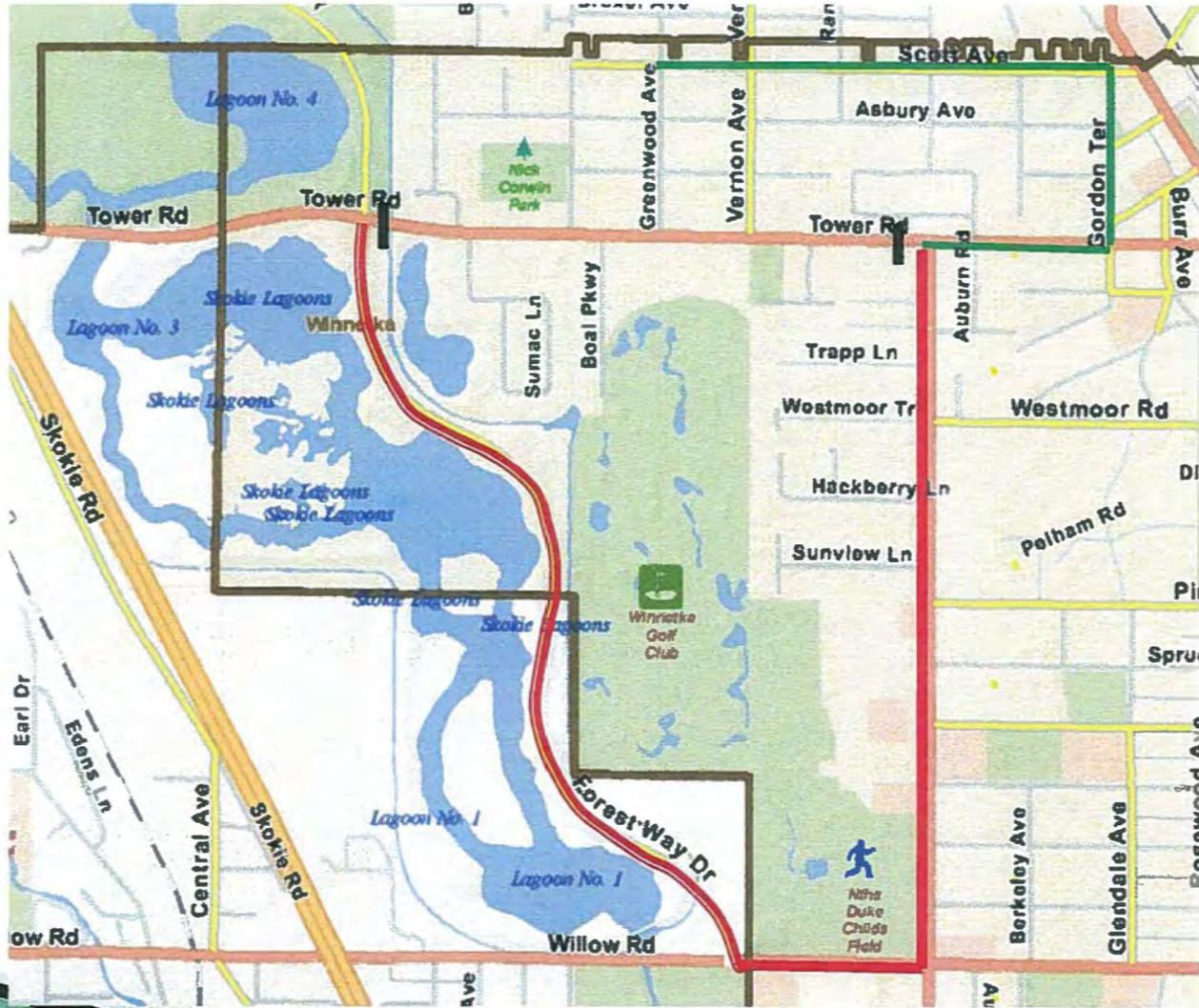
- ▶ Berms required in certain areas of Forest Glen neighborhood to capture overland flow within public right-of-way.
- ▶ Height approximately 4” to 6”



# Details – Landscaping Berms



# Details – Traffic Control

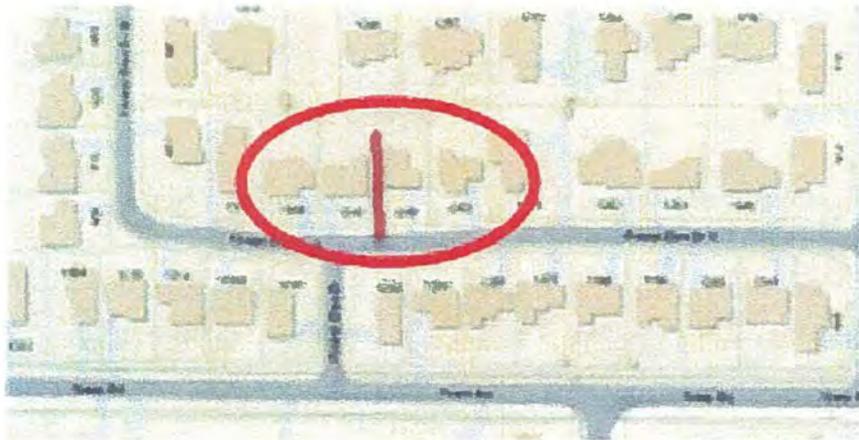


# Details – Permits

- ▶ **Project Permits Required**
  - US Army Corps Wetland Permit (Received)
  - Illinois EPA Water System Permit for water main relocations (Applied)
  - Cook County Forest Preserve approval of larger pond outlet (Applied)
  - North Cook County Soil & Water Conservation District for construction sediment control (to be applied for on completion of plans)

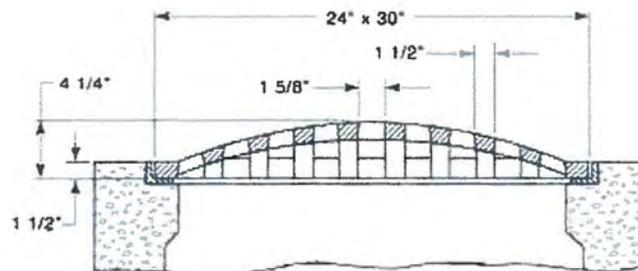
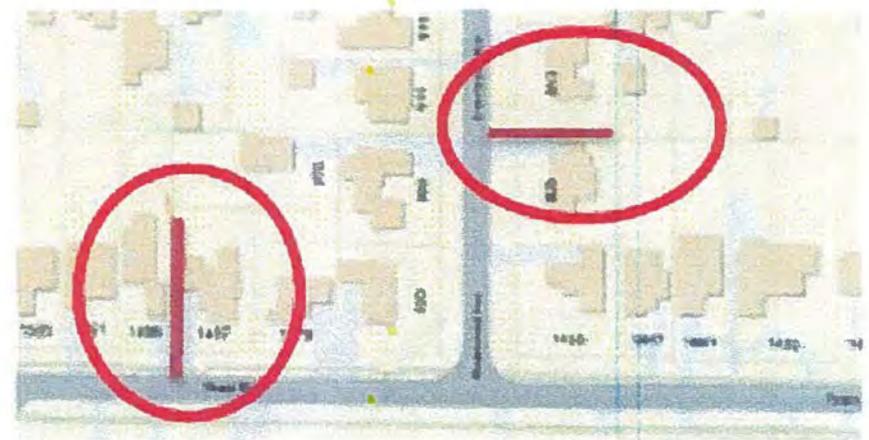
# Details – Private Property Drainage

1289/1295 Forest Glen Drive South



905/913 Greenwood Avenue

1487/1495 Tower & 902 Greenwood



# Details – Private Property Drainage

- ▶ Laterals and easements required at 3 locations to drain internal areas and reduce risk of structure flooding
- ▶ Staff recommends including in project:
  - Integral part of an overall Village project
  - Necessary to achieve the project goal of reducing the risk of structure flooding;
  - Intended to reduce the risk of structure flooding in large storms, not simply to reduce nuisance rear yard flooding;
  - No safe and effective alternative (overland flow route) to achieve project objectives.

# Details – Cost Estimate

Item	Cost
Engineering	\$226,874
Construction	\$3,187,130
Construction Engineering/Management	\$215,494
Construction Contingency	\$637,426
<b>Total</b>	<b>\$4,266,924</b>

# Details – Schedule

- ▶ **Public Information Meeting**
  - July 2, 2013
- ▶ **Finalize Plans/Permits**
  - July – August 2013
- ▶ **Bidding Period**
  - September – October 2013
- ▶ **Contract Award**
  - November 2013
- ▶ **Construction Period**
  - March – September 2014



# Questions and Discussion