



EarthTech

A BETTER TOMORROW made possible

A **tyco** International Ltd. Company



Woodlands Drainage and Pavement Improvements

Proposed Project Alternative and Cost

January 14, 2008

Project Location



January 14, 2008

Woodlands Improvements

Project Considerations

- Mature trees
- Deteriorating roadways
- Narrow roadways
- Localized flooding
- Drainage and Woodlands Improvements Task Force
- Resident input

Project Goals

- Improve drainage system
- Improve condition of streets
- Protect mature trees
- Maintain character of neighborhood

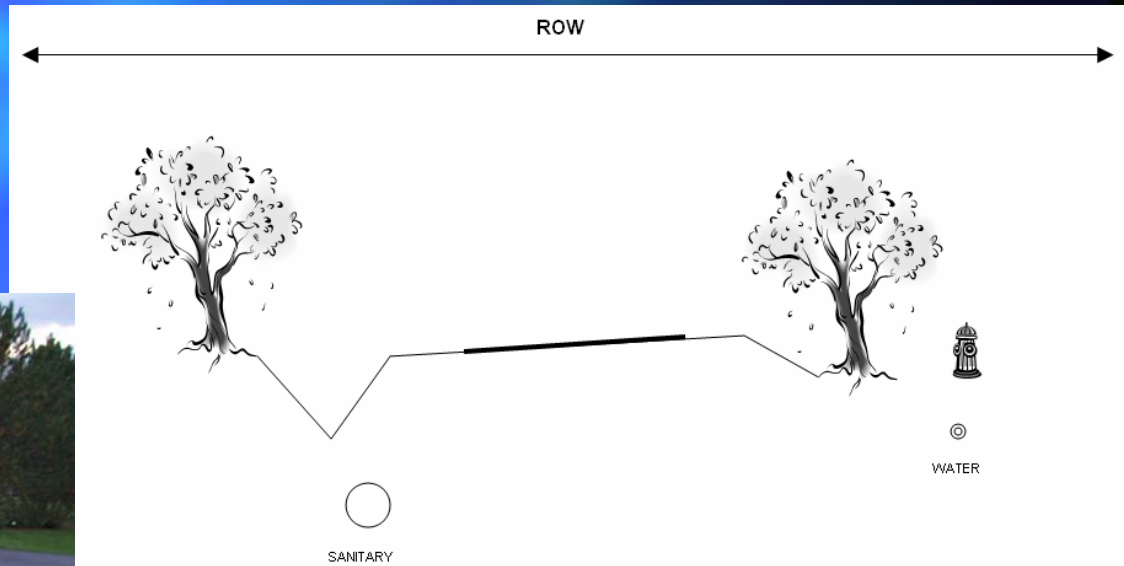
Village Goals

- Maintain functioning level of all infrastructure
- Implement Stormwater Masterplan recommendations
- Comply with IEPA combined sewer requirements

Alternatives Considered

- Urban street section
 - Curb and gutter
 - Storm sewer
 - Detention facilities
- Rural street section
 - Swales
 - Bioretention
- Combination of urban and rural sections

Rural Street Section



January 14, 2008

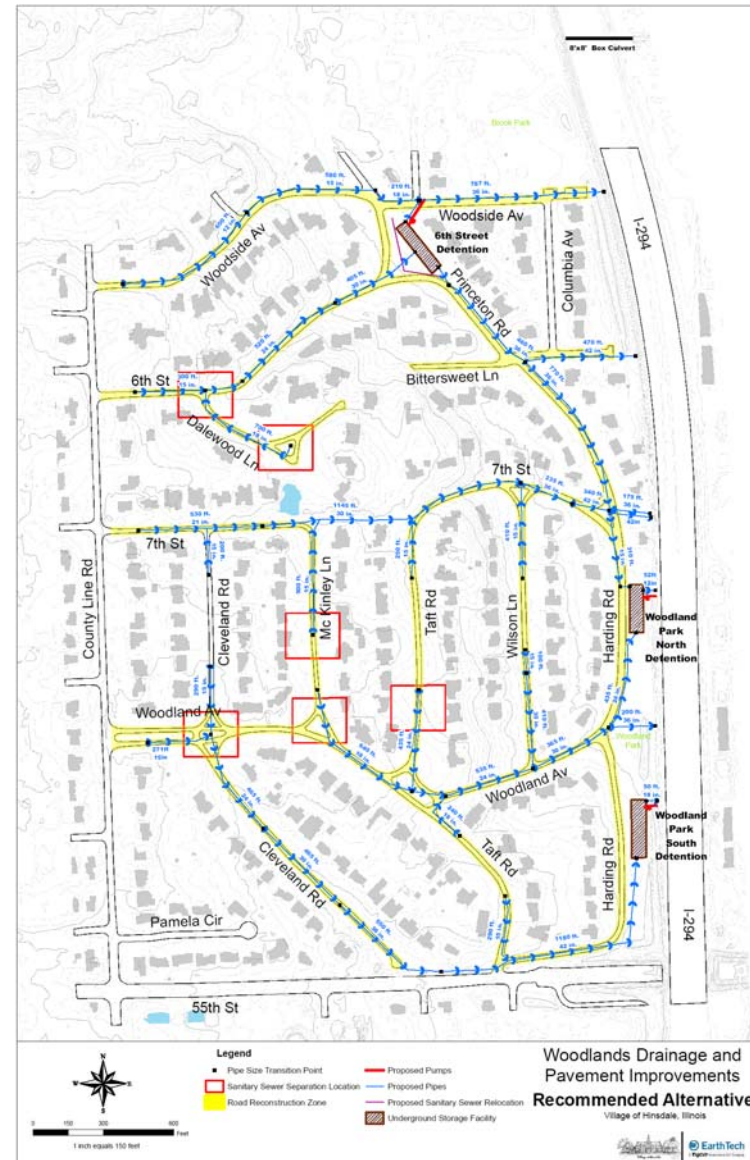
Woodlands Improvements

Recommended Alternative

- Curb and gutter
- Storm sewer
- Narrow streets



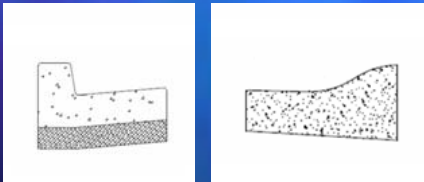
Improvements Plan



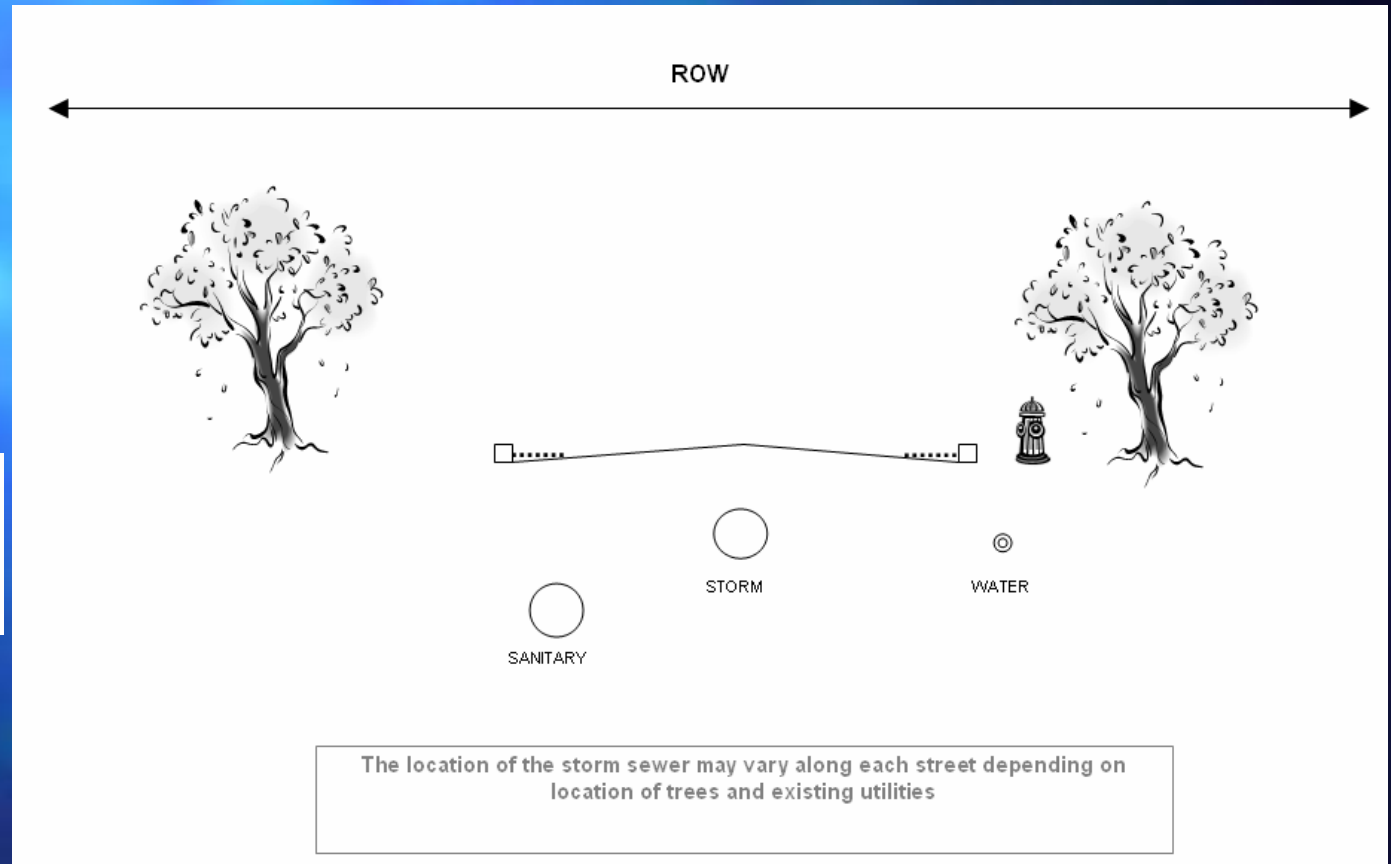
January 14, 2008

Woodlands Improvements

Typical Street Section

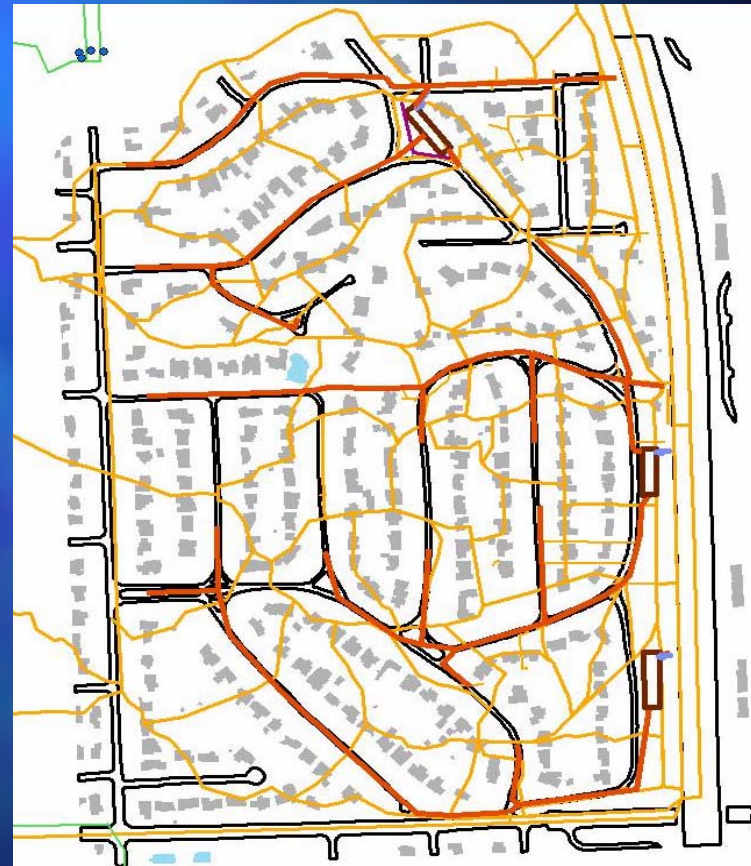


Curb and Gutter Alternatives



Drainage Improvements

- Drainage areas
- Storm sewers
- Detention facilities
- 100 year storm event



Drainage Area

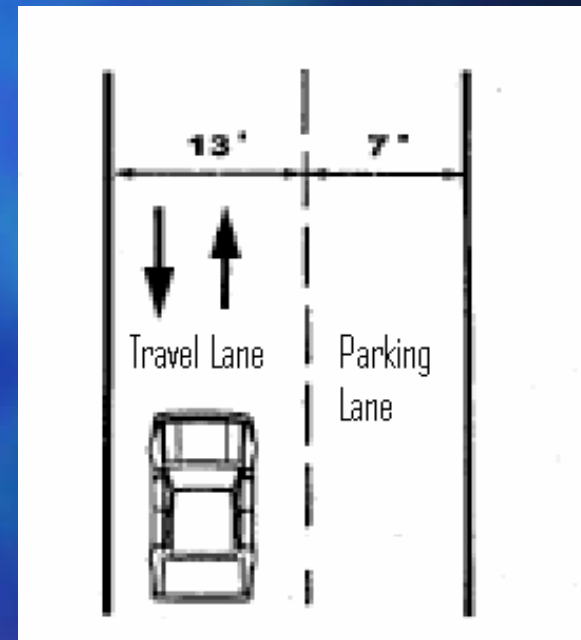
- Based upon DuPage and Cook County contour data
- Very roughly delineated for modeling purposes
- Additional survey required to confirm boundaries



Additional Considerations

Parking

- Not allowed in parkway grass
- Proposed roadway width not adequate for parking and two travel lanes
- One side of street only

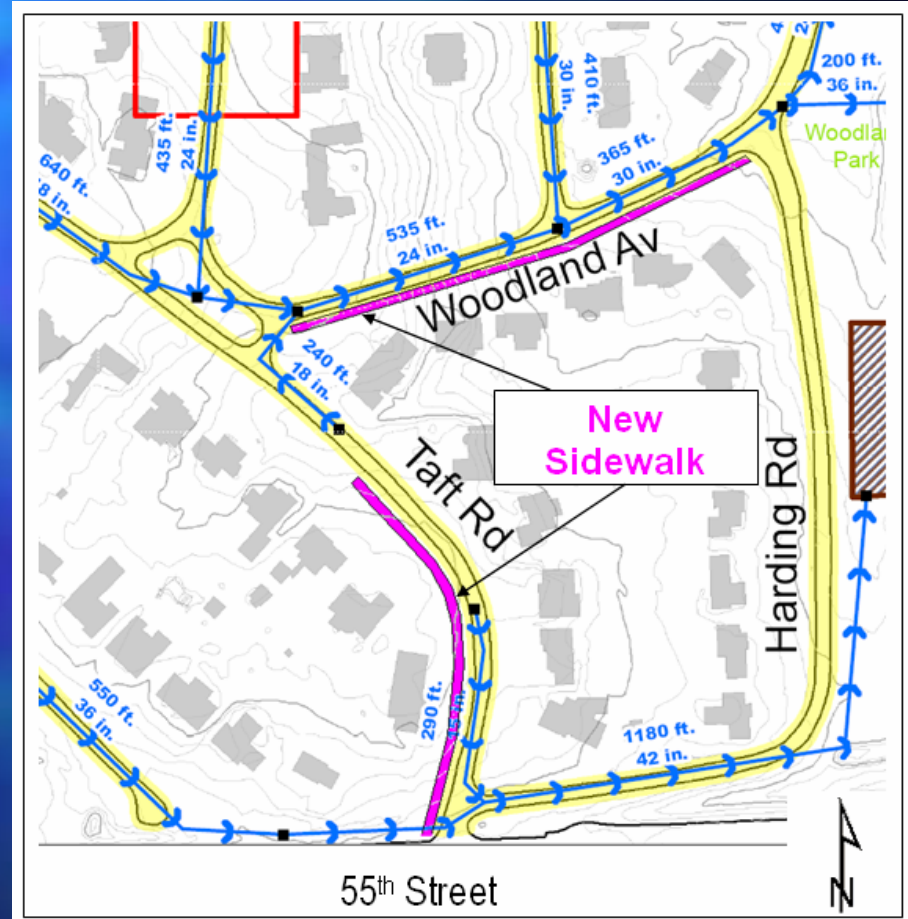


Narrow streets can provide traffic calming and help maintain the Woodlands character

Additional Considerations

Sidewalks

- New walk proposed only on Woodland and Taft
- Existing segments to remain
- Additional walks will not be installed in the future



1990's Cost Estimate

- Construction cost - \$6 million
- Construction contingency - \$1.5 million
- Engineering - \$900,000
- Total estimated cost - \$8.40 million

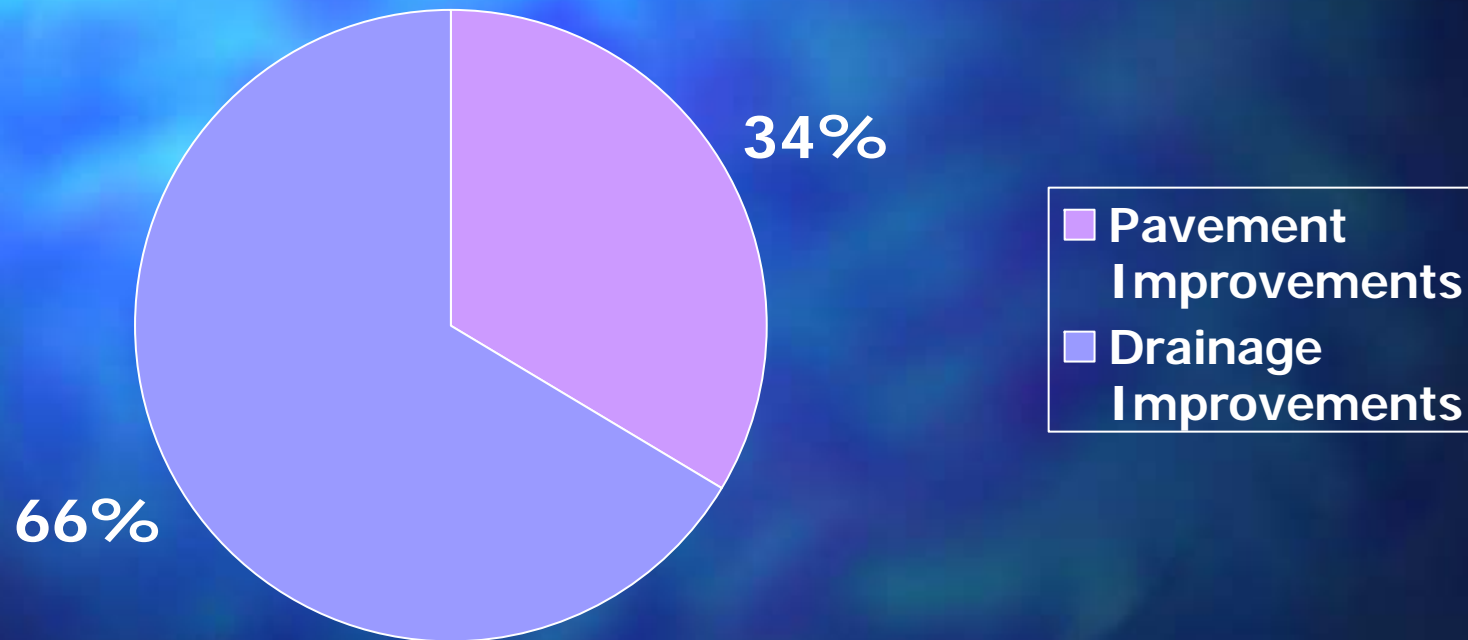
Estimated Project Cost

- Total estimated cost – \$20.0 million
 - Drainage cost - \$13.3 million
 - Pavement cost - \$6.7 million

Project Cost Considerations

- Costs include:
 - Roadway & drainage improvements (\$13.9 million)
 - 25% General contingency (\$3.5 million)
 - 15% Engineering cost (\$2.6 million)
- Costs do not include:
 - Utility repairs or upgrades (water, sanitary, electric)
 - Private property flooding
 - Private landscape restoration within right-of-way

Estimated Cost Breakdown



Public Benefits

- Alleviate localized flooding
- Improve roadway aesthetics
- Increase property values
- Simplify pavement maintenance
- Maintain Woodlands unique character

Project Timeline

Action	Approximate Date
Approval of funding*	November 2008
Begin detailed survey and design	November 2008
Begin establishment of SSA	September 2009
Complete final design and cost estimate	December 2009
Complete final plans and specifications	February 2010
Begin phased construction	April 2010
End construction	October 2014

* Contingent upon sales tax referendum approval

Questions and Discussion

Shaun Pelletier – Village Engineer
Jay Kessen – Earth Tech



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