



DUPAGECOUNTY

STORMWATER MANAGEMENT



Country Club Highlands Drainage Improvements Project

APWA Suburban Branch: Public Works Environment Project of the Year – Under \$5 Million

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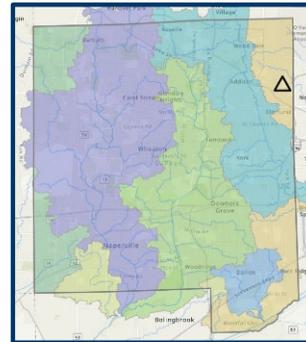
Country Club Highlands



Background – History of Flooding

Unincorporated Elmhurst

- Victory Parkway and Emroy Avenue
- Wilson Road, Willow Road & Diversey Parkway



Drainage Concerns

- Chronic flooding in residential areas – caused structural damage and blocked emergency access
- Flooding driven by depressional topography, aging undersized storm sewer, and no stormwater storage



Country Club Highlands



The Study

- 92 acre watershed
- Benefit/ Cost Analysis
- Project Feasibility



The Solution

- Multi Phase mitigation strategy
- Improved stormwater conveyance and storage
- Prevented downstream impacts
- Critical construction sequencing – uninterrupted flow, navigating multiple existing utilities



Design Highlights – Phase I



Phase I: Installed 48-inch relief sewer, local storm sewer, high-capacity inlets, stabilized outlet into Addison Creek

Cost

- \$650,000
- American Rescue Plan Act Funds

Easements

- Three (3) private residences
- Illinois American Water

Permitting

- DuPage County
- United States Army Corps of Engineers



Design Highlights – Phase II



Phase II: Added 2,200 LF of new storm sewer and 1.3 ac-ft of stormwater storage beneath Willow Road

Cost

- \$2.7M
- American Rescue Plan Act Funds

Easements

- None

Permitting

- DuPage County
- Addison Township Highway Dept



Country Club Highlands



Construction, Safety & Community

Safety

- Schedule minimized school disruption
- Coordinated chain of command with utilities and emergency responders
- 1 hour mitigation during storm events

Community

- Hand delivered letters
- Easements across multiple properties
- Field change addressed additional drainage issue



Outcomes and Achievements



Reduced Risk

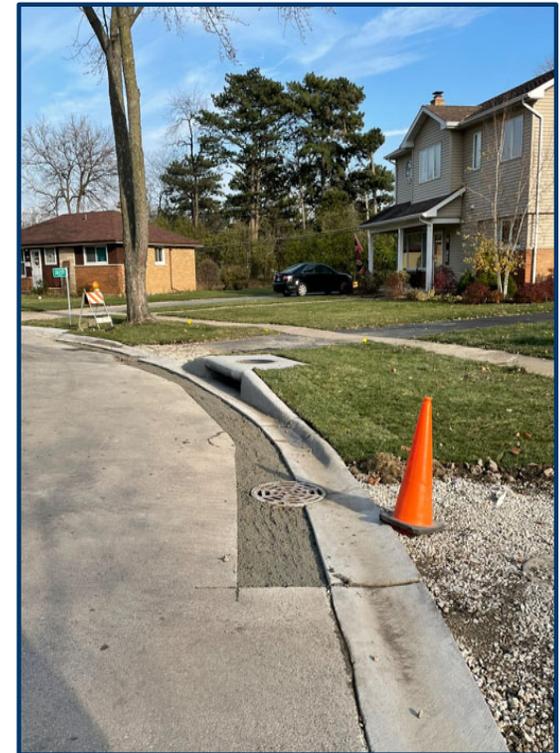
- Flood risk significantly reduced
- Emergency access routes restored

Environmental Enhancements

- Native plantings
- Erosion protection at Addison Creek
- Trees and restoration in roadway corridors

Design and Cost Innovations

- T-based manholes in tight easements
- Concrete box culvert storage
- High capacity inlets
- Sidewalk replacements
- Regulatory success: no downstream impacts



Questions?



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