

VILLAGE OF WILMETTE  
**STORMWATER**  
ACTION PLAN

Village Board Update  
2-11-2020  
Neighborhood Storage Project

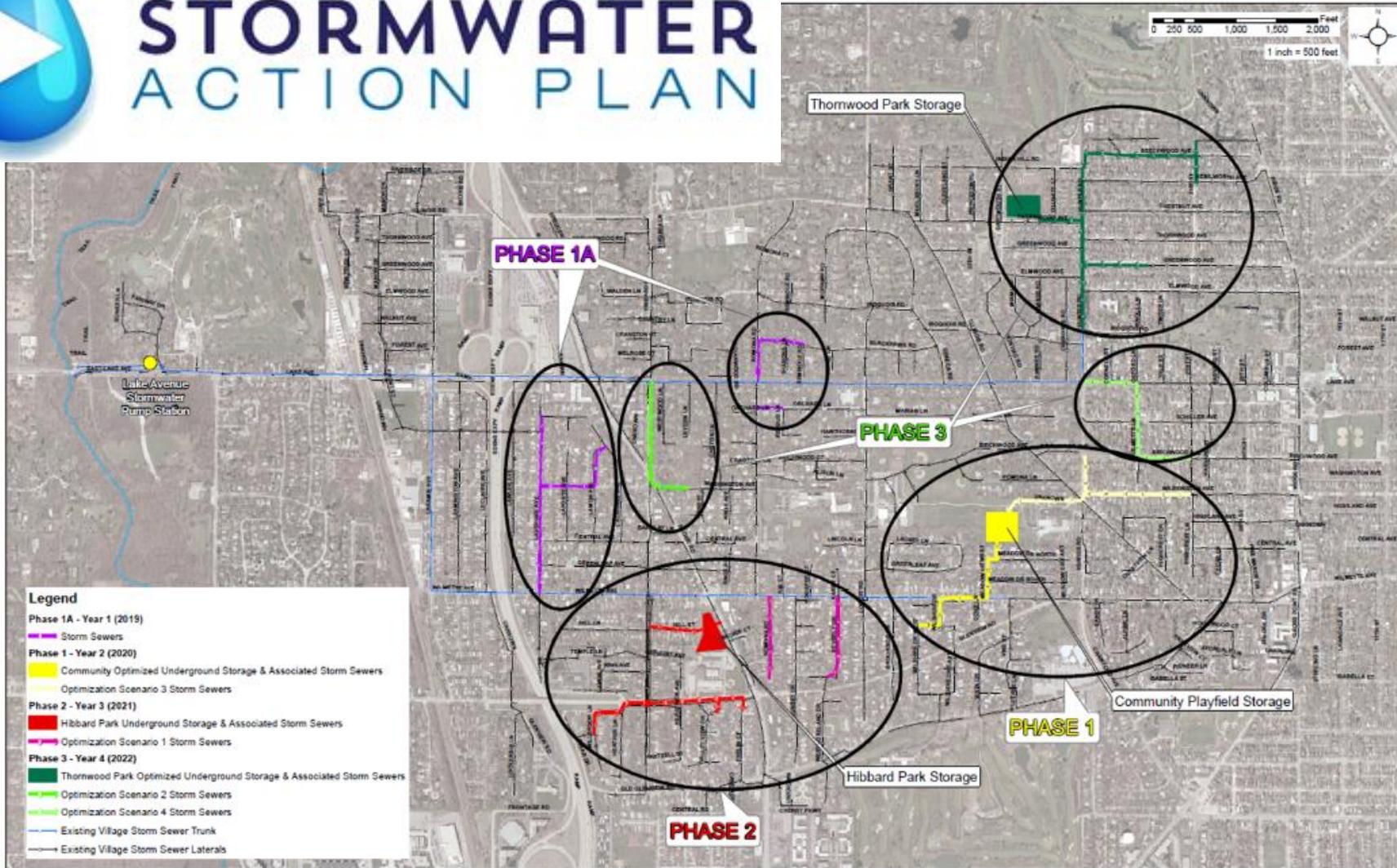
# Overview

1. Project overview
2. Optimized sewers
3. Phase 1 highlights
4. Community Playfield construction
5. Communication plan
6. Project milestones
7. Budget update
8. Intergovernmental Agreements (IGA's)
9. Private easement





# VILLAGE OF WILMETTE STORMWATER ACTION PLAN



## Tentative Schedule

Phase 1A: 2019

Phase 1: 2020

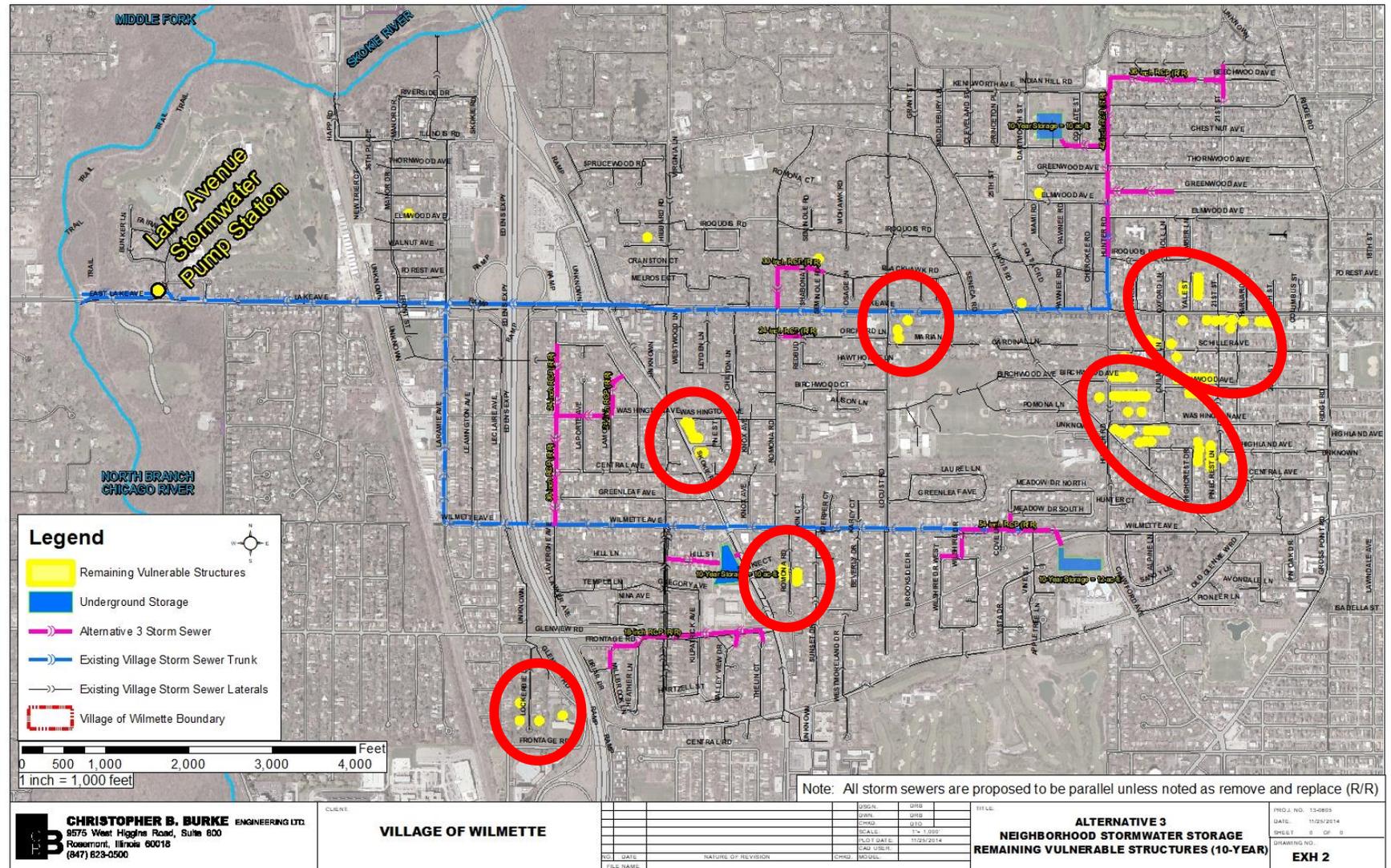
Phase 2: 2021

Phase 3: 2022

Optimized Plan provides 98% reduction in vulnerable structures for a 10-year return interval storm event

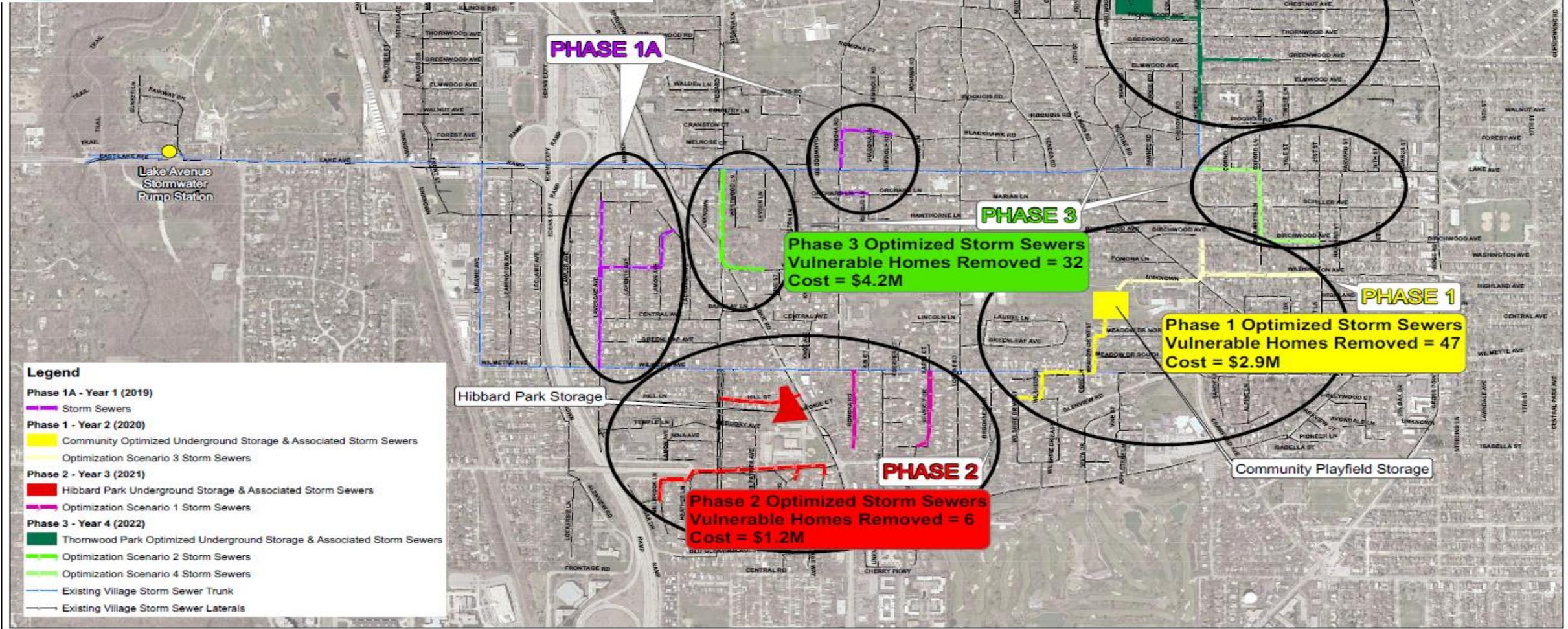
# VULNERABLE STRUCTURES - AFTER THE BASE PROJECT IS COMPLETE

Approximately 90  
 “Vulnerable  
 Structures” remain for  
 the 10-year event  
 after implementation  
 of Base Project





# VILLAGE OF WILMETTE STORMWATER ACTION PLAN



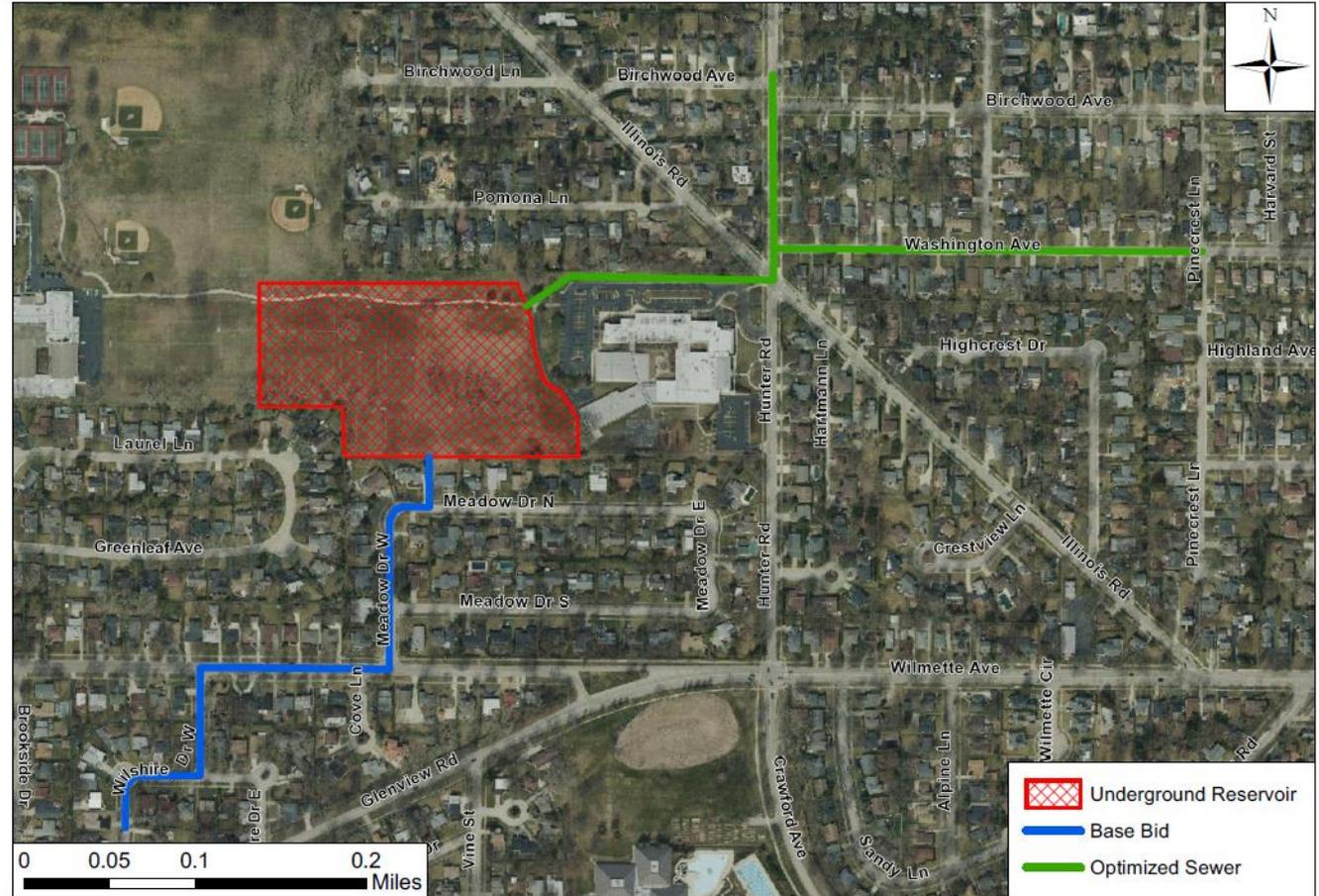
- Legend**
- Phase 1A - Year 1 (2019)**
    - Storm Sewers
  - Phase 1 - Year 2 (2020)**
    - Community Optimized Underground Storage & Associated Storm Sewers
    - Optimization Scenario 3 Storm Sewers
  - Phase 2 - Year 3 (2021)**
    - Hibbard Park Underground Storage & Associated Storm Sewers
    - Optimization Scenario 1 Storm Sewers
  - Phase 3 - Year 4 (2022)**
    - Thornwood Park Optimized Underground Storage & Associated Storm Sewers
    - Optimization Scenario 2 Storm Sewers
    - Optimization Scenario 4 Storm Sewers
  - Existing Village Storm Sewer Trunk
  - Existing Village Storm Sewer Laterals

# Phase 1 Highlights

- 20.2 acre-foot stormwater storage facility (~2,250 pieces)
- 5,665 feet (1.07 miles) storm sewer ranging in size from 12" diameter to 60" diameter PVC and RCP pipe, 3'x7' and 5'-6' RCP rectangular box storm sewer
- Manholes, catch basins, inlets
- Pavement rehabilitation
- Sidewalk removal and replacement and ADA upgrades



## Location/Vicinity Map



# Optimized Storm Sewers

Alternate 1 – Storm sewer construction through D39 Highcrest School property, and Illinois/Hunter Road Intersection construction

*\*Given the disruption to the Highcrest parking lot in 2020 for the Community Playfield reservoir, this alternate is only viable if constructed as part of Phase I in 2020.*

Estimate = \$1.41M

Alternate 2 – Storm sewer on Hunter Road and Washington Avenue

Alternate 2A – Summer-Fall 2020 construction simultaneously with Alternate 1 and Community Playfield and with restricted hours on days when school is in session.

Alternate 2B – Summer 2021, when school is out of session, dates to be determined.

Estimate = \$1.44M

# Community Playfield Construction

The IGA with the School District defines three stages:

Early Access: April 6 through last day of school June 12/18

Full Access: June 12/18 through August 16

Late Access: August 17 through November 28

Each stage has specific requirements that define how the contractor can utilize Highcrest Parking Lot for access so as to minimize any disruption to school operations.

# Community Playfield Construction

- Only during 6 weeks of “full access” will the contractor have unrestricted use of the Highcrest parking lot to build the reservoir
- 150 to 200 trucks per day hauling excavated material
- Up to 26 StormTrap deliveries per day
- Contractor will backfill excavated areas as they progress
- Contractor will likely have to work 7 days a week and outside of regular work hours in order to stay on schedule
- Highcrest parking lot to be rebuilt to at least “safe and usable” condition prior to August 15
- Secondary access through Birchwood after full access time period if necessary -- *this will be extremely disruptive to Birchwood residents*

# Communication Plan

- Public Open House prior to construction
- Pre-construction mailing with detailed information
- Door hangers handed out by Resident Engineer
- Project website updated regularly
- Monthly paper newsletter
- Hand-delivered notices as needed
- Video Public Service Announcements
- Streaming Progress Videos
- Drone flyovers to document progress

## NEIGHBORHOOD STORMWATER STORAGE IMPROVEMENT PROJECT: PHASE I



### CONSTRUCTION UPDATE

Over the last several months, the engineering team hired by the Village has been finalizing the design of the Community Playfield underground storage vault, site drainage improvements and new storm sewers. The project is anticipated to be out to bid in January 2020.

**WILMETTE** | **CB** | **BAXTER & WOODMAN**  
Christopher & Burke Engineering, Ltd.

#### I LIVE NEAR COMMUNITY PLAYFIELD, WHAT CAN I EXPECT?

The entire construction zone will be protected with an 8-foot tall fence and dust control measures will be included in the construction contract.

The majority of the vault installation will occur during the eight weeks of summer recess. This aggressive schedule means that the contractor may have to work longer days and on weekends.

The Village will establish truck routes for the project that will generally limit trucks to major roads, such as Lake Avenue, Hunter Road and Glenview Road. Primary access to the Playfield will be through the Highcrest Middle School parking lot during the summer recess. If construction runs longer than the summer recess, a secondary access point will be necessary through Birchwood Avenue.

#### WHAT WILL COMMUNITY PLAYFIELD LOOK LIKE WHEN THE PROJECT IS COMPLETED?

Since the vault will be completely underground, Community Playfield will look like it does today when construction is over. In addition to providing significant flood relief, the project will also resolve the major drainage problems within the southeast quadrant of the park, therefore reducing standing water and making the park more usable throughout the year.

#### WHAT AREAS OF COMMUNITY PLAYFIELD WILL BE IMPACTED AND WHEN WILL THE PARK REOPEN?

Only the southeastern portion of the park (highlighted on the map to the right) will be under construction from April 2020 through November 2020. The area disturbed by construction will be restored with sod in the fall of 2020. Since the new sod requires time to establish roots, it is anticipated that the entire playfield will be open for the public to enjoy in the spring of 2021.



# Project Milestones

- Bid opening on February 13
- February 25 Village Board meeting
  - ✓ Construction contract
  - ✓ Resident engineering services contract
  - ✓ IGA with the School District
  - ✓ IGA with the Park District
  - ✓ Private property easement
- School District approval targeted for February 24
- Park Board approval targeted for week of February 18
- Resident Open House in March
- Construction commences April 6



# Project Budget

YEAR	PHASE	LOCATION	FEB 2019 Conceptual Estimate (\$M)	FEB 2020 Updated Estimate (\$M)*
2019	Phase 1A	Various	6.4	4.5
2020	Phase 1	Community Playfield	20.3	24.0
2021	Phase 2	Hibbard Park	14.2	13.2
2022	Phase 3	Thornwood Park	27.3	26.5
<b>TOTAL</b>			<b>68.2</b>	<b>68.2</b>

\* Includes optimized sewers (\$8.3 million for all three phases), IGA requests and Miller easement

\* Phases 2 and 3 costs are based on 2018 dollars

# IGA: School District

School District Requests	Estimated Cost
Parking Lot Resurfacing	\$175,000
Air conditioning (temp)	\$85,000
Wireless Communication	\$20,000
Entry Sign	\$40,000
Vibration testing	\$10,000
Cameras in the park (temp)	\$10,000
Lighting in the park (temp)	\$10,000
<b>Total</b>	<b>\$350,000</b>

# IGA: Park District

Park District Request	Community Playfield	Hibbard Park	Thornwood Park
Comprehensive Landscaping	\$312,500	\$57,000	\$57,000
Drainage Improvements	\$160,000	\$80,000	\$80,000
Public Restrooms	\$550,000		\$362,500
Lawn Irrigation	\$500,000		\$250,000
Recreational Path with lighting	\$940,000		
Subtotal per park	\$2,462,500	\$137,000	\$749,500
<b><i>SUBTOTAL 3 PARKS</i></b>	<b><i>\$3,349,000</i></b>		
Drainage improvements at Community in work zone	\$1,200,000 * <i>included in the base project bid</i>		
<b>TOTAL PARK DISTRICT BENEFIT</b>	<b>\$4,549,000</b>		

Note: Costs were developed based on draft IGA text and without concept plans or details. Costs include a 25% design and construction contingency

# Private Property Easement

- 20-foot permanent easement through the driveway at 2432 Meadow
- Connects the Wilmette Avenue trunk sewer to the vault under Community Playfield
- Cash payment of \$180,000
- Easement access between April 1 and May 31, 2020
- All work must be completed in 45 days

