

# Stormwater Alternatives Evaluation

Village Council Update: May 10, 2016

# Agenda/Purpose

- Provide an update of the study process to date
- Summarize public engagement process
- Briefly review concept Stormwater Vision and discuss areas that require further development and engagement
- Identify potential next steps for these areas to allow further refinement of the Stormwater Vision
- Questions and discussion
- Council policy direction

# Stormwater Alternatives Analysis

## Scope of Study

- Data gathering and review
  - Comprehensive evaluation of available data characterizing the conditions of the watershed.
- Evaluate hydrologic and hydraulic modeling for verification of existing conditions and historical flooding
  - Verify the computer models used in the study accurately reflect the conditions Winnetka experiences during various rainfall events.
- Alternatives development
  - Identify the many potential stormwater management and flood control opportunities within the watershed.

# Stormwater Alternatives Analysis

## Scope of Study (cont.)

- Stakeholder engagement
  - Create a community effort around planning, and explore partnerships and collaborative opportunities with stakeholders.
- Public participation
  - Conduct an extensive public participation effort will be directed towards gaining valuable input from the community.

# Public Participation

## Awareness Phase

- Purpose: To introduce the project and review flood experiences and validate the hydraulic model
- Meetings
  - January 21 & 23, 2016
  - Washburne School Theater and Gymnasium
  - Presentation followed by Open House
- Results
  - Interaction and comment cards
  - Website posting and comments
  - Validated model

# Public Participation

## Exploration Phase

- Purpose: To present a wide range of conceptual stormwater management strategies and projects for discussion and comments
- Meetings
  - March 3 & 5, 2016
  - Winnetka Community House – Matz Hall
  - Presentation followed by Open House
- Results
  - Interaction and comment cards
  - Website posting (incl. video) and comments

# Public Participation

## Vision Phase

- Purpose: To present the concept vision for discussion, comments, concerns, suggestions, and questions
- Meeting
  - April 12, 2016
  - Washburne School Theater and Gymnasium
  - Presentation with Q&A and workshop tables
- Results
  - Interaction and Q&A
  - Several elements of the concept Stormwater Vision have raised questions and concerns, or need further discussion and engagement

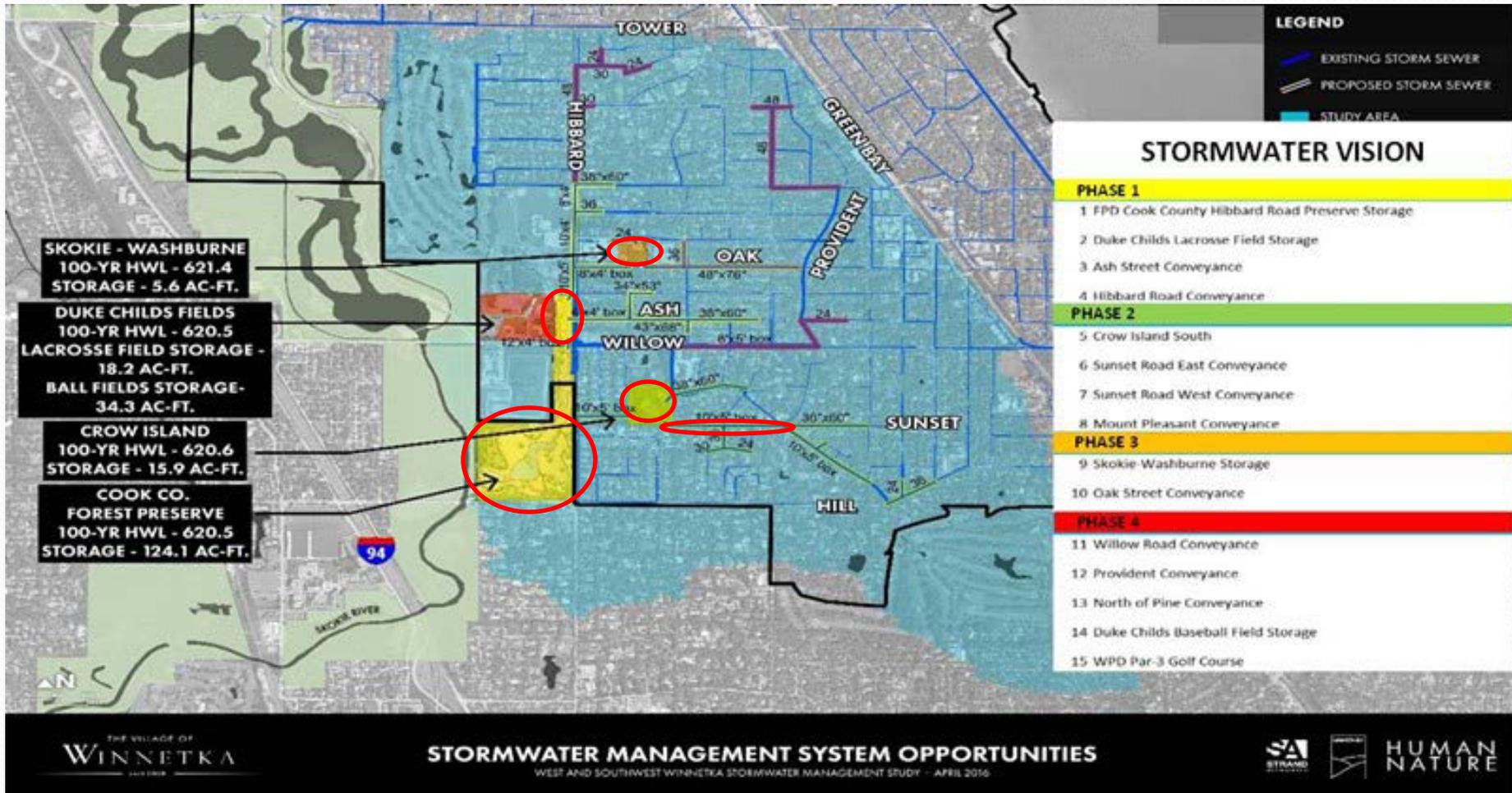


# Current Stormwater Vision

## Estimated Cost

<b>Phase 1</b>	<b>Cost</b>
○ FPDCC Hibbard Road stormwater storage project	\$ 8,582,000
○ Duke Childs lacrosse field stormwater storage project	\$ 1,005,000
○ Winnetka landfill improvements - lacrosse field relocation	\$ 2,331,000
○ Ash Street conveyance project	\$ 5,107,000
○ Hibbard Road North conveyance project	\$ 6,553,000
<b>Total</b>	<b>\$ 23,578,000</b>
<b>Phase 2</b>	<b>Cost</b>
○ Crow Island South stormwater storage project	\$ 1,841,000
○ Sunset Drive East conveyance project	\$ 10,356,000
○ Sunset Drive West conveyance project	\$ 2,821,000
○ Mount Pleasant conveyance project	\$ 1,362,000
<b>Total</b>	<b>\$ 16,380,000</b>
<b>Phase 3</b>	<b>Cost</b>
○ Washburne-Skokie school underground stormwater storage project	\$ 1,381,000
○ Oak Street conveyance project	\$ 3,294,000
<b>Total</b>	<b>\$ 4,675,000</b>
<b>Phase 4</b>	<b>Cost</b>
○ Provident local storm sewer improvement project	\$ 2,930,000
○ Willow Road local storm sewer improvement project	\$ 5,284,000
○ North of Pine conveyance project	\$ 2,408,000
○ Duke Childs/WPD Par-3 Golf Course/FPDCC storage project	\$ 2,461,000
<b>Total</b>	<b>\$ 13,084,000</b>
<b>Project Total</b>	<b>\$ 57,717,000</b>

# Concepts in Need of Further Development or Discussion



# Potential Next Steps:

## Forest Preserve

- A tree survey should be undertaken to determine the current condition of the property and the tree population.
- Soil borings should be completed to determine groundwater levels, the characteristics of site soils, and their suitability for re-use onsite or at the Village's landfill.
- Further detail concerning contouring, planting, site amenities, and maintenance should be developed.
- Additional meetings should be held with CCFPD staff.
- With CCFPD staff assistance, Commissioner Suffredin, who has been following this project, should be engaged to begin to understand the views and perspectives of the CCFPD Board of Commissioners.
- Other stakeholders with interest in the CCFPD property should be identified and engaged.
- Timeline and roadmap for Forest Preserve approval process.

# Potential Next Steps:

## Duke Childs Field

- Strand, Village staff, and Trustee representatives should meet with NTHS staff and Board representatives to discuss and identify issues.
- The technical and operational requirements for IHSA fields need to be ascertained and evaluated.
- Strand should further refine the landfill development concept plan and related engineering issues.
- Strand should evaluate and report on the cost, performance, and CCFPD implications of underground storage at Duke Childs Field.

# Potential Next Steps: Crow Island Woods

- Two parallel paths:
  - Identify the optimal concept that would include stormwater conveyance, storage, and or water quality improvement using Crow Island Woods
  - Identify the optimal concept that does not require use of Crow Island Woods
- Park District-led planning process to engage community stakeholders of Crow Island Woods
  - Project team of Lakota Group, Pizzo Associates, and Strand Associates
  - Park District to manage process, Village to reimburse via IGA
- Further investigation and evaluation by Strand for the best alternative concept that does not involve the use of Crow Island Woods
- Present both to the community as alternatives in the final Stormwater Vision

# Potential Next Steps:

## Sunset Road Conveyance

- The Village should engage Strand to perform additional engineering necessary to identify location of proposed pipe so that potential construction issues can be identified and discussed.
- Strand should also be tasked with further evaluation of potential alternate conveyance routes to determine the associated cost and performance implications.
- The Village should complete a tree survey to identify trees and landscaping that might potentially be affected by construction.
- Strand and Village staff should meet with affected property owners to discuss issues.

# Potential Next Steps:

## Skokie-Washburn Athletic Field

- The Village and Strand should meet with District 36 to identify and discuss the District's needs and concerns for program space, safety, construction scheduling, and restored field requirements, so these can be incorporated into the final project design.

# Potential Next Steps: Additional Design Levels

- In response to community questions, Strand should be directed to evaluate less robust storage and conveyance construction options to determine estimated costs and flood protection benefits of these lower-level alternatives. While not lowering the Village's desired flood reduction goals, understanding cost and benefit tradeoffs involved with a lower-level design event will help inform funding and policy discussions going forward.

# Potential Next Steps:

## Complete Current Strand Scope

- Strand Associates' contract engagement includes presenting final report documenting the proposed Stormwater Vision and all of the work, presentations, analysis, comments, and public engagement activities undertaken
- Staff recommends that the final report be presented June 7, with a modification:
  - The Stormwater Vision should be labeled conceptual
  - Open items requiring further discussion and engagement should be identified
  - Recommended next steps should be included



# Questions and Discussion

# Policy Direction Items

- Should Strand Associates prepare a scope and proposal for further analysis and engagement with the Cook County Forest Preserve District?
- Should Strand Associates prepare a scope and proposal for further analysis and engagement with New Trier High School concerning Duke Childs Field?
- Should the Village pursue participating with the Park District in a planning and engagement process for Crow Island Woods?
  - Should Strand Associates prepare a scope and proposal for a parallel identification of other alternatives?

# Policy Direction Items (cont.)

- Should Strand Associates prepare a scope and proposal to perform additional detail engineering for engaging with property owners for stormwater conveyance along Sunset Road?
- Should Strand Associates prepare a scope and proposal for further discussions with School District 36?
- Should Strand Associates prepare a scope and proposal for evaluation of conceptual options, including estimated construction costs and flood reduction performance, of lower-level alternatives?
- Should Strand present a concept report with identified next engagement steps, completing their current contract, at the June 7 Council meeting?